



U.S. Department  
of Transportation  
**National Highway  
Traffic Safety  
Administration**



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DOT HS 813 251

March 2022

# **2020 FARS/CRSS Coding and Validation Manual**

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Suggested APA Format Citation:

National Highway Traffic Safety Administration. (2022, March). *2020 FARS/CRSS coding and validation manual* (Report No. DOT HS 813 251).

## Technical Report Documentation Page

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| 1. Report No.<br>DOT HS 813 251                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2. Government Accession No.                          | 3. Recipient's Catalog No.                                                                                                                                                                                                 |           |
| 4. Title and Subtitle<br>2020 FARS/CRSS Coding and Validation Manual                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                      | 5. Report Date<br>March 2022                                                                                                                                                                                               |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                      | 6. Performing Organization Code                                                                                                                                                                                            |           |
| 7. Author<br>National Highway Traffic Safety Administration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                      | 8. Performing Organization Report No.                                                                                                                                                                                      |           |
| 9. Performing Organization Name and Address<br>National Highway Traffic Safety Administration<br>1200 New Jersey Avenue SE<br>Washington, DC 20590                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                      | 10. Work Unit No. (TRAIS)                                                                                                                                                                                                  |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                      | 11. Contract or Grant No.                                                                                                                                                                                                  |           |
| 12. Sponsoring Agency Name and Address<br>National Highway Traffic Safety Administration<br>1200 New Jersey Avenue SE<br>Washington, DC 20590                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                      | 13. Type of Report and Period Covered<br>Annual Report File                                                                                                                                                                |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                      | 14. Sponsoring Agency Code                                                                                                                                                                                                 |           |
| 15. Supplementary Notes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                      |                                                                                                                                                                                                                            |           |
| <p>16. Abstract</p> <p>NHTSA has collected motor vehicle traffic crash data since the early 1970s to support its mission to reduce motor vehicle traffic crashes, injuries, and deaths on our Nation's trafficways. The two data systems included in this Coding and Validation Manual are the Fatality Analysis Reporting System (FARS) and the Crash Report Sampling System (CRSS). The 2020 data coding year has brought substantial change to the FARS and CRSS data collections. Here are a few highlights of the most noteworthy items.</p> <p>The electronic collection software used by both FARS and CRSS to record the codes used for analysis has been replaced. The legacy <i>Microcomputer Data Entry (MDE)</i> has been replaced by the new <i>Records-Based Information Solution (RBIS)</i>.</p> <p>The <i>Vehicle Level</i> has been reorganized to allow for the addition of six new data elements and the removal of one data element due to NHTSA's implementation of the software used to interpret Vehicle Identification Numbers (VINS).</p> <p>The data element <i>Person Type</i> on the Not a Motor Vehicle Occupant level has been expanded to collect more specific types of non-motorists on motorized or non-motorized personal conveyances.</p> <p>Prior to 2020 the Related Factors on each coding level had coding limitations (e.g., Crash-Related Factors allowed up to three selections). Beginning with the data collection year 2020, the analyst/coder may select all Related Factors that apply to the situation.</p> |                                                      |                                                                                                                                                                                                                            |           |
| 17. Key Words<br>coding manual, CRSS, Crash Report Sampling System, FARS, Fatality Analysis Reporting System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                      | 18. Distribution Statement<br>Document is available to the public from the DOT, BTS, National Transportation Library, Repository & Open Science Access Portal, <a href="https://rosap.ntl.bts.gov">rosap.ntl.bts.gov</a> . |           |
| 19 Security Classif. (of this report)<br>Unclassified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 20. Security Classif. (of this page)<br>Unclassified | 21 No. of Pages<br>1225                                                                                                                                                                                                    | 22. Price |

**Form DOT F 1700.7 (8-72)**

Reproduction of completed page authorized

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## **Introduction**

The National Highway Traffic Safety Administration (NHTSA) has collected motor vehicle traffic crash data since the early 1970s to support its mission to reduce motor vehicle traffic crashes, injuries, and deaths on our Nation's trafficways. The two data systems included in this Coding and Validation Manual are the Fatality Analysis Reporting System (FARS) and the Crash Report Sampling System (CRSS).

### **FARS**

FARS contains data derived from a census of fatal motor vehicle traffic crashes in the 50 States, the District of Columbia, and Puerto Rico. To be included in FARS, a crash must involve a motor vehicle traveling on a trafficway customarily open to the public and must result in the death of at least one person (occupant of a vehicle or a non-motorist) within 30 days of the crash. FARS was conceived, designed, and developed by NHTSA's National Center for Statistics and Analysis (NCSA) in 1975 to provide an overall measure of highway safety, to help identify traffic safety problems, to suggest solutions, and to help provide an objective basis to evaluate the effectiveness of motor vehicle safety standards and highway safety programs.

### **CRSS**

CRSS builds on the retiring, long running National Automotive Sampling System General Estimates System (NASS GES). CRSS is a sample of police-reported motor vehicle traffic crashes involving all types of motor vehicles, pedestrians, and cyclists, ranging from property-damage-only crashes to those that result in fatalities. CRSS is used to estimate the overall crash picture, identify highway safety problem areas, measure trends, drive consumer information initiatives, and form the basis for cost- and benefit analyses of highway safety initiatives and regulations. The target population of the CRSS is all police-reported traffic crashes of motor vehicles (motorcycles, passenger cars, SUVs, vans, light trucks, medium- or heavy-duty trucks, buses, etc.). The CRSS target population is the same as the previous NASS GES target population.

## Crash Versus Accident

NHTSA adopted the policy to use the term crash instead of Accident. Accordingly, effective 2009, the term *crash* is used throughout this manual.

The *American National Standard Institute (ANSI) D16.1 - Manual on Classification of Motor Vehicle Traffic Crashes*, in its 8th edition (2017)<sup>1</sup> has also adopted the use of the term “crash” instead of “accident.” This is known as the ANSI Manual.

The use of the term “crash” instead of “accident” in the 8th edition of ANSI D16.1 is not a change in the classification other than the term.

Incidents or scenarios involving collision events, and those involving non-collision events, as defined in ANSI D16.1, are both still included in the term “crash.”

Collision events include those involving a motor vehicle and fixed objects (poles, walls, buildings, barriers, bridge supports, etc.) and those involving a motor vehicle and non-fixed objects (pedestrians, animals, pedalcyclists, other motor vehicles, etc.).

Besides scenarios involving a collision, a crash also shall include non-collision scenarios such as the following:

- A single motor vehicle on a roadway catches fire;
- A motor vehicle runs off a trafficway and is immersed in a body of water;
- An occupant of a motor vehicle is injured by falling from that vehicle while it is in motion or on a roadway;
- An occupant of a motor vehicle is injured by shifting cargo or flying objects within that vehicle during emergency handling/braking;
- A vehicle suffers damage from a pavement irregularity (loose plate, high manhole, pothole, etc.);
- And others.

Consult the ANSI Manual for a more precise and complete presentation of these concepts. As a minimum, the following ANSI D16.1 terms should be well understood to properly select and classify cases for FARS and CRSS. The paragraph reference numbers from the ANSI Manual are provided to aid look-up.

- 2.2.1 Trafficway
- 2.4.1 Harmful Event
- 2.4.2 Deliberate Intent
- 2.4.3 Legal Intervention
- 2.4.4 Unstabilized Situation
- 2.4.5 Cataclysm

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<sup>1</sup> Available at [www.transportation.gov/sites/dot.gov/files/docs/resources/government/traffic-records/304331/ansid16-2017.pdf](http://www.transportation.gov/sites/dot.gov/files/docs/resources/government/traffic-records/304331/ansid16-2017.pdf)



- 2.4.6 Crash (formerly Accident)
- 2.4.9 Transport Crash
- 2.4.12 Motor Vehicle Crash
- 2.4.17 Road Vehicle Crash
- 2.4.18 Traffic Crash
- 2.4.19 Non-traffic Crash
- 2.4.22 Motor Vehicle Traffic Crash

## New and Noteworthy in 2020

The 2020 data coding year has brought substantial change to the FARS and CRSS data collections. Below are just a few highlights of the most noteworthy items. Please visit the [2020 FARS/CRSS Manual Changes Summary](#) for the specific changes in each coding level.

The electronic collection software used by both FARS and CRSS to record the codes used for analysis has been replaced. The legacy Microcomputer Data Entry (MDE) has been replaced by the new Records-Based Information Solution (RBIS).

The [Vehicle Level](#) has been reorganized to allow for the addition of six new data elements and the removal of one data element due to NHTSA's implementation of the software used to interpret Vehicle Identification Numbers (VINs), known as vPIC. For more information, visit [vPIC Make / vPIC Model / vPIC Body Class Overview](#). Due to these new vPIC-derived data elements, starting with the 2020 data collection year, the [NCSA Make/Model/Body Type tables](#) will no longer be maintained. They are now located as an appendix.

The data element [Person Type](#) on the Not a Motor Vehicle Occupant level has had an expansion to collect more specific types of non-motorists on motorized or non-motorized personal conveyances.

Prior to 2020 the Related Factors on each coding level had coding limitations (e.g., Crash-Related Factors allowed up to three selections). Beginning with the data collection year 2020, the analyst/coder may select all Related Factors that apply to the situation. In addition, each Related Factor code has been increased to three digits (001, 002, 003, etc.). This three-digit increase allows for the addition of more codes in the future.

## 2020 FARS/CRSS Manual Changes Summary

Below is a list of elements that have substantial changes for **2020**. These changes, as well as others, are highlighted throughout the manual by ***bold/italic*** type.

**IT IS RECOMMENDED THAT YOU REVIEW THE ENTIRE MANUAL FOR ALL CHANGES.**

### Intro Changes

| SECTION             | SECTION NAME                                                  | NEW/<br>REVISED<br>VALUES | NEW/<br>REVISED<br>REMARKS | COMMENTS                                                                                                                                                                                                                                                |
|---------------------|---------------------------------------------------------------|---------------------------|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">100</a> | <a href="#">FARS Submission Instructions</a>                  |                           | X                          | <ul style="list-style-type: none"> <li>Revised remarks to replace <del>Microcomputer Data Entry (MDE)</del> with <b>Records-Based Information Solution (RBIS)</b></li> </ul>                                                                            |
|                     | <del>FARS Coding Forms</del>                                  |                           |                            | <ul style="list-style-type: none"> <li>Coding forms removed</li> </ul>                                                                                                                                                                                  |
| <a href="#">200</a> | <a href="#">Form Coding Instructions</a>                      |                           | X                          | <ul style="list-style-type: none"> <li>Revised remarks: General Instructions</li> <li>Revised remarks to replace <del>MDE</del> with <b>RBIS</b></li> <li>Revised remarks: How to Structure a Case</li> <li>Revised remarks: Created Records</li> </ul> |
| <a href="#">300</a> | <a href="#">Data Element Coding Instructions</a>              |                           | X                          | <ul style="list-style-type: none"> <li>Revised remarks: Section Organization</li> </ul>                                                                                                                                                                 |
| <a href="#">400</a> | <a href="#">Understanding and Managing Consistency Checks</a> |                           | X                          | <ul style="list-style-type: none"> <li>New section with remarks</li> </ul>                                                                                                                                                                              |
|                     | <a href="#">Consecutive Number</a>                            |                           | X                          | <ul style="list-style-type: none"> <li>Revised remarks to replace <del>MDE</del> with <b>RBIS</b></li> </ul>                                                                                                                                            |

### Crash Level Changes

| ELEMENT #               | ELEMENT NAME                                                                | NEW/<br>REVISED<br>VALUES | NEW/<br>REVISED<br>REMARKS | COMMENTS                                                                                                                                                                |
|-------------------------|-----------------------------------------------------------------------------|---------------------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">C3</a>      | <a href="#">Number of Forms Submitted for Persons Not in Motor Vehicles</a> |                           | X                          | <ul style="list-style-type: none"> <li>Revised remarks to reflect the new non-motorist person types</li> </ul>                                                          |
| <a href="#">C4</a>      | <a href="#">Number of Vehicle Forms Submitted</a>                           |                           | X                          | <ul style="list-style-type: none"> <li>New reference to Coding Guides</li> </ul>                                                                                        |
| <a href="#">C6 / C7</a> | <a href="#">County / City</a>                                               |                           | X                          | <ul style="list-style-type: none"> <li>Revised remarks for clarification</li> <li>Revised remarks: 998/9898 (Not Reported)</li> </ul>                                   |
| <a href="#">C9</a>      | <a href="#">Crash Time</a>                                                  |                           | X                          | <ul style="list-style-type: none"> <li>New reference to Coding Guides</li> </ul>                                                                                        |
| <a href="#">C10</a>     | <a href="#">Trafficway Identifier</a>                                       |                           | X                          | <ul style="list-style-type: none"> <li>Revised remarks regarding alleys and parking lots</li> <li>Revised remarks to replace <del>MDE</del> with <b>RBIS</b></li> </ul> |

| ELEMENT #           | ELEMENT NAME                                   | NEW/ REVISED VALUES | NEW/ REVISED REMARKS | COMMENTS                                                                                                                                                                                                                                                                                                                                                    |
|---------------------|------------------------------------------------|---------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">C12</a> | <a href="#">Land Use and Functional System</a> |                     | X                    | <ul style="list-style-type: none"> <li>Revised remarks: 8/98 (Not Reported)</li> </ul>                                                                                                                                                                                                                                                                      |
| <a href="#">C13</a> | <a href="#">Ownership</a>                      |                     | X                    | <ul style="list-style-type: none"> <li>Revised remarks: 98 (Not Reported)</li> </ul>                                                                                                                                                                                                                                                                        |
| <a href="#">C16</a> | <a href="#">Milepoint</a>                      |                     | X                    | <ul style="list-style-type: none"> <li>Revised remarks: 9999.8 (Not Reported)</li> </ul>                                                                                                                                                                                                                                                                    |
| <a href="#">C17</a> | <a href="#">Global Position</a>                |                     | X                    | <ul style="list-style-type: none"> <li>Revised remarks: 7s (Not Reported)</li> <li>Revised remarks to replace <del>MDE</del> with <b>RBIS</b></li> <li><b>Revised remarks for Geo-locator Tool</b></li> </ul>                                                                                                                                               |
| <a href="#">C18</a> | <a href="#">Crash Events</a>                   |                     | X                    | <ul style="list-style-type: none"> <li>Revised remarks to replace <del>MDE</del> with <b>RBIS</b></li> <li>New references to Coding Guides.</li> <li>Revised remarks: Areas of Impact (Other Vehicle)</li> </ul>                                                                                                                                            |
| <a href="#">C19</a> | <a href="#">First Harmful Event</a>            |                     | X                    | <ul style="list-style-type: none"> <li>Revised remarks: 01 (Rollover/Overturn)</li> <li>Revised remarks: 15 (Non-Motorist on Personal Conveyance)</li> <li>Revised remarks: 46 (Traffic Signal Support)</li> </ul>                                                                                                                                          |
| <a href="#">C20</a> | <a href="#">Manner of Collision of the FHE</a> |                     | X                    | <ul style="list-style-type: none"> <li>Revised remarks: 98 (Not Reported)</li> </ul>                                                                                                                                                                                                                                                                        |
| <a href="#">C21</a> | <a href="#">Relation to Junction</a>           |                     | X                    | <ul style="list-style-type: none"> <li>New references to Coding Guides</li> <li>Revised remarks: 8/98 (Not Reported)</li> <li>Added Remarks for <b>CRSS SPECIAL INSTRUCTION</b></li> </ul>                                                                                                                                                                  |
| <a href="#">C22</a> | <a href="#">Type of Intersection</a>           | X                   | X                    | <ul style="list-style-type: none"> <li>New attribute and remarks: <b>11 (Other Intersection Type)</b></li> <li>Revised remarks: 98 (Not Reported)</li> </ul>                                                                                                                                                                                                |
| <a href="#">C23</a> | <a href="#">Relation to Trafficway</a>         |                     | X                    | <ul style="list-style-type: none"> <li>New reference to Coding Guides</li> <li>Revised remarks: 98 (Not Reported)</li> </ul>                                                                                                                                                                                                                                |
| <a href="#">C25</a> | <a href="#">Light Condition</a>                |                     | X                    | <ul style="list-style-type: none"> <li>Revised remarks: 8 (Not Reported)</li> </ul>                                                                                                                                                                                                                                                                         |
| <a href="#">C26</a> | <a href="#">Atmospheric Conditions</a>         | X                   | X                    | <ul style="list-style-type: none"> <li>Revised format: "Select All That Apply"</li> <li>Removed general remarks regarding selecting only two conditions (due to revised "Select All That Apply" format)</li> <li>Removed attribute and remarks: <del>00 (No Additional Atmospheric Conditions)</del></li> <li>Revised remarks: 98 (Not Reported)</li> </ul> |

| ELEMENT #           | ELEMENT NAME                                  | NEW/ REVISED VALUES | NEW/ REVISED REMARKS | COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------|-----------------------------------------------|---------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">C29</a> | <a href="#">Notification Time EMS</a>         |                     | X                    | <ul style="list-style-type: none"> <li>• New reference to Coding Guides</li> <li>• New table examples: <b><i>Example Coding Scenarios for Different EMS Times</i></b></li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <a href="#">C30</a> | <a href="#">Arrival Time EMS</a>              |                     | X                    | <ul style="list-style-type: none"> <li>• Revised remarks: link to new tables under Notification Time EMS</li> <li>• New reference to Coding Guides</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <a href="#">C31</a> | <a href="#">EMS Time at Hospital</a>          |                     | X                    | <ul style="list-style-type: none"> <li>• Revised remarks: link to new tables under Notification Time EMS</li> <li>• New reference to Coding Guides</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <a href="#">C32</a> | <a href="#">Related Factors - Crash Level</a> | X                   | X                    | <ul style="list-style-type: none"> <li>• Revised format: “Select All That Apply”</li> <li>• Revised format: 3 numeric</li> <li>• Removed general remarks regarding selecting only three conditions (due to revised “Select All That Apply” format)</li> <li>• Revised remarks: <ul style="list-style-type: none"> <li>○ 000 (None)</li> <li>○ 001 (Inadequate Warning of Exits, Lanes Narrowing, Traffic Controls, etc.)</li> <li>○ 002 (Shoulder Design or Condition)</li> <li>○ 004 (No or Obscured Pavement Marking)</li> <li>○ 005 (Surface Under Water)</li> <li>○ 013 (Aggressive Driving/Road Rage by Non-Contact Vehicle Driver)</li> <li>○ 028 (Regular Congestion)</li> </ul> </li> <li>• Revised numeric and remarks: <b>999</b> (Reported as Unknown)</li> </ul> |
| <a href="#">C34</a> | <a href="#">Stratum</a>                       |                     | X                    | <ul style="list-style-type: none"> <li>• Revised remarks regarding multiple crashes on one PCR</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## Vehicle Level Changes

| ELEMENT #                          | ELEMENT NAME                                                      | NEW/<br>REVISED<br>VALUES | NEW/<br>REVISED<br>REMARKS | COMMENTS                                                                                                                                                                                                                                         |
|------------------------------------|-------------------------------------------------------------------|---------------------------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">V5</a>                 | <a href="#">Unit Type</a>                                         |                           | X                          | <ul style="list-style-type: none"> <li>Revised general remarks</li> </ul>                                                                                                                                                                        |
| <a href="#">V6</a>                 | <a href="#">Hit and Run</a>                                       | X                         | X                          | <ul style="list-style-type: none"> <li>Removed attribute and remarks: <del>9 (Reported as Unknown)</del></li> </ul>                                                                                                                              |
| <a href="#">V7</a>                 | <a href="#">Registration State</a>                                |                           | X                          | <ul style="list-style-type: none"> <li>Revised remarks: 91 (Not Reported)</li> </ul>                                                                                                                                                             |
| <a href="#">V8</a>                 | <a href="#">Registered Vehicle Owner</a>                          |                           | X                          | <ul style="list-style-type: none"> <li>Revised general remarks</li> <li>Revised attribute label and remarks: 3 (Vehicle Registered as <b>Commercial</b>/Business/Company/ Government Vehicle)</li> </ul>                                         |
|                                    | <a href="#">vPIC Make / vPIC Model / vPIC Body Class Overview</a> |                           | X                          | <ul style="list-style-type: none"> <li>Revised section name: <del>Vehicle</del>-vPIC Make / vPIC Model / vPIC Body Class Overview</li> <li>Revised remarks throughout section regarding new procedures using vPIC</li> </ul>                     |
| <a href="#">NEW V9</a><br>Old V13  | <a href="#">Vehicle Identification Number</a>                     |                           | X                          | <ul style="list-style-type: none"> <li>Element moved from V13 to <b>V9</b> <ul style="list-style-type: none"> <li>Revised remarks: 8s (Not Reported)</li> </ul> </li> </ul>                                                                      |
| <a href="#">NEW V10</a><br>Old V12 | <a href="#">Vehicle Model Year</a>                                |                           | X                          | <ul style="list-style-type: none"> <li>Element moved from V12 to <b>V10</b></li> <li>Revised remarks: 9998 (Not Reported)</li> <li>New remarks: 9999 (Unknown)</li> </ul>                                                                        |
| <a href="#">NEW V11</a>            | <a href="#">vPIC Make</a>                                         | X                         | X                          | <ul style="list-style-type: none"> <li>New data element</li> <li>New codes and attributes</li> <li>New remarks</li> </ul>                                                                                                                        |
| <a href="#">NEW V12</a>            | <a href="#">vPIC Model</a>                                        | X                         | X                          | <ul style="list-style-type: none"> <li>New data element</li> <li>New codes and attributes</li> <li>New remarks</li> </ul>                                                                                                                        |
| <a href="#">NEW V13</a>            | <a href="#">vPIC Body Class</a>                                   | X                         | X                          | <ul style="list-style-type: none"> <li>New data element</li> <li>New codes and attributes</li> <li>New remarks</li> </ul>                                                                                                                        |
| <a href="#">NEW V14</a><br>Old V9  | <a href="#">NCSA Make</a>                                         | X                         | X                          | <ul style="list-style-type: none"> <li>Revised Element name: <del>Vehicle</del> <b>NCSA</b> Make</li> <li>Element moved from V9 to <b>V14</b></li> <li>Revised remarks: 97 (Not Reported)</li> <li>Revised remarks: 99 (Unknown Make)</li> </ul> |

| ELEMENT #                                 | ELEMENT NAME                                  | NEW/<br>REVISED<br>VALUES | NEW/<br>REVISED<br>REMARKS | COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------------|-----------------------------------------------|---------------------------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#"><u>NEW V15</u></a><br>Old V10 | <a href="#"><u>NCSA Model</u></a>             | X                         | X                          | <ul style="list-style-type: none"> <li>Revised Element name: <del>Vehicle</del> <b>NCSA Model</b></li> <li>Element moved from V10 to <b>V15</b></li> <li>Revised remarks: 997 (Not Reported)</li> <li>Revised remarks: 999 (Unknown)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <a href="#"><u>NEW V16</u></a><br>Old V11 | <a href="#"><u>NCSA Body Type</u></a>         | X                         | X                          | <ul style="list-style-type: none"> <li>Revised element name: <b>NCSA Body Type</b></li> <li>Element moved from V11 to <b>V16</b></li> <li>Analytical note removed (under Light Conventional Trucks)</li> <li>Revised attribute labels and remarks: <ul style="list-style-type: none"> <li>42 (Light <del>Truck</del> <b>Vehicle</b> Based Motor home [chassis mounted])</li> <li>65 (Medium/Heavy <del>truck</del> <b>Vehicle</b> based Motor Home)</li> <li>73 (Camper or Motor Home, Unknown <del>truck type</del> <b>GVWR</b>)<sup>2</sup></li> </ul> </li> <li>Revised remarks: <ul style="list-style-type: none"> <li>97 (Other Vehicle Type)</li> <li>98 (Not Reported)</li> <li>99 (Unknown Body Type)</li> </ul> </li> </ul> |
| <a href="#"><u>NEW V17</u></a>            | <a href="#"><u>Final Stage Body Class</u></a> | X                         | X                          | <ul style="list-style-type: none"> <li>New data element</li> <li>New codes and attributes</li> <li>New remarks</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <a href="#"><u>NEW V18</u></a>            | <a href="#"><u>Power Unit GVWR</u></a>        | X                         | X                          | <ul style="list-style-type: none"> <li>New data element</li> <li>New codes and attributes</li> <li>New remarks</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <a href="#"><u>NEW V19</u></a><br>Old V14 | <a href="#"><u>Vehicle Trailing</u></a>       |                           | X                          | <ul style="list-style-type: none"> <li>Element moved from V14 to <b>V19</b></li> <li>Revised definition</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <a href="#"><u>NEW V20</u></a><br>Old V15 | <a href="#"><u>Trailer VIN</u></a>            |                           | X                          | <ul style="list-style-type: none"> <li>Element moved from V15 to <b>V20</b></li> <li>Revised remarks: 8s (Not Reported)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <a href="#"><u>NEW V21</u></a>            | <a href="#"><u>Trailer GVWR</u></a>           | X                         | X                          | <ul style="list-style-type: none"> <li>New data element</li> <li>New codes and attributes</li> <li>New remarks</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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<sup>2</sup> Gross vehicle weight rating

| ELEMENT #                                 | ELEMENT NAME                                                     | NEW/ REVISED VALUES | NEW/ REVISED REMARKS | COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------------------|------------------------------------------------------------------|---------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#"><u>NEW V22</u></a><br>Old V16 | <a href="#"><u>Jackknife</u></a>                                 |                     | X                    | <ul style="list-style-type: none"> <li>• Element moved from V16 to <b>V22</b></li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <a href="#"><u>NEW V23</u></a><br>Old V17 | <a href="#"><u>Motor Carrier Identification Number</u></a>       | X                   | X                    | <ul style="list-style-type: none"> <li>• Element moved from V17 to <b>V23</b></li> <li>• New reference to Coding Guides</li> <li>• Revised general remarks</li> <li>• Revised attribute label and remarks: <ul style="list-style-type: none"> <li>○ Issuing Authority: 99 (<del>Reported as</del> Unknown)</li> <li>○ Identification Number: 9s (<del>Reported as</del> Unknown)</li> </ul> </li> <li>• Revised Remarks: 00/0s (Not Applicable)</li> <li>• Revised Remarks: 77/7s (Not Reported)</li> </ul> |
| Old V18                                   | <del>GVWR/GCWR</del>                                             | X                   | X                    | <ul style="list-style-type: none"> <li>• Removed Element</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <a href="#"><u>NEW V24</u></a><br>Old V19 | <a href="#"><u>Vehicle Configuration</u></a>                     | X                   | X                    | <ul style="list-style-type: none"> <li>• Element moved from V19 to <b>V24</b></li> <li>• New reference to Coding Guides</li> <li>• Revised Remarks: 00 (Not Applicable)</li> <li>• Revised Remarks: 10 (Vehicle 10,000 lbs. or Less Placarded for Hazardous Materials)</li> <li>• Revised attribute label and remarks: 99 (<del>Reported as</del> Unknown)</li> </ul>                                                                                                                                       |
| <a href="#"><u>NEW V25</u></a><br>Old V20 | <a href="#"><u>Cargo Body Type</u></a>                           | X                   | X                    | <ul style="list-style-type: none"> <li>• Element moved from V20 to <b>V25</b></li> <li>• New reference to Coding Guides</li> <li>• Revised general remarks</li> <li>• Revised remarks: 00 (Not Applicable (N/A))</li> <li>• Revised attribute and remarks: 99 (<del>Reported as</del> Unknown)</li> </ul>                                                                                                                                                                                                   |
| <a href="#"><u>NEW V26</u></a><br>Old V21 | <a href="#"><u>Hazardous Materials Involvement / Placard</u></a> |                     | X                    | <ul style="list-style-type: none"> <li>• Element moved from V21 to <b>V26</b></li> <li>• Revised remarks: <ul style="list-style-type: none"> <li>○ HM2: 8 (Not Reported)</li> <li>○ HM3: 8888 (Not Reported)</li> <li>○ HM4: 88 (Not Reported)</li> <li>○ HM5: 8 (Not Reported)</li> </ul> </li> </ul>                                                                                                                                                                                                      |
| <a href="#"><u>NEW V27</u></a><br>Old V22 | <a href="#"><u>Bus Use</u></a>                                   |                     | X                    | <ul style="list-style-type: none"> <li>• Element moved from V22 to <b>V27</b></li> <li>• Revised remarks: 98 (Not Reported)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                      |



| ELEMENT #                                 | ELEMENT NAME                                                                   | NEW/<br>REVISED<br>VALUES | NEW/<br>REVISED<br>REMARKS | COMMENTS                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------------|--------------------------------------------------------------------------------|---------------------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#"><u>NEW V28</u></a><br>Old V23 | <a href="#"><u>Special Use</u></a>                                             | X                         | X                          | <ul style="list-style-type: none"> <li>• Element moved from V23 to <b>V28</b></li> <li>• New attribute and remarks: <b>19 (Motor Vehicle Used for Vehicle Sharing Mobility)</b></li> <li>• Revised attribute label and remarks: 20 (<b>Motor Vehicle Used for Electronic Ride-Hailing</b> <del>(Transportation Network Company)</del>)</li> <li>• Revised remarks: 98 (Not Reported)</li> </ul> |
| <a href="#"><u>NEW V29</u></a><br>Old V24 | <a href="#"><u>Emergency Motor Vehicle Use</u></a>                             |                           | X                          | <ul style="list-style-type: none"> <li>• Element moved from V24 to <b>V29</b></li> <li>• Revised remarks: 0 (Not Applicable)</li> <li>• Revised remarks: 8 (Not Reported)</li> </ul>                                                                                                                                                                                                            |
| <a href="#"><u>NEW V30</u></a><br>Old V25 | <a href="#"><u>Travel Speed</u></a>                                            |                           | X                          | <ul style="list-style-type: none"> <li>• Element moved from V25 to <b>V30</b></li> <li>• Revised remarks: 998 (Not Reported)</li> </ul>                                                                                                                                                                                                                                                         |
| <a href="#"><u>NEW V31</u></a><br>Old V26 | <a href="#"><u>Underride / Override</u></a>                                    |                           | X                          | <ul style="list-style-type: none"> <li>• Element moved from V26 to <b>V31</b></li> <li>• Revised general remarks</li> </ul>                                                                                                                                                                                                                                                                     |
| <a href="#"><u>NEW V32</u></a><br>Old V27 | <a href="#"><u>Rollover</u></a>                                                |                           | X                          | <ul style="list-style-type: none"> <li>• Element moved from V27 to <b>V32</b></li> <li>• Revised remarks: 1 (Rollover, Tripped by Object/Vehicle)</li> <li>• Revised remarks: 2 (Rollover, Untripped)</li> </ul>                                                                                                                                                                                |
| <a href="#"><u>NEW V33</u></a><br>Old V28 | <a href="#"><u>Location of Rollover</u></a>                                    |                           | X                          | <ul style="list-style-type: none"> <li>• Element moved from V28 to <b>V33</b></li> </ul>                                                                                                                                                                                                                                                                                                        |
| <a href="#"><u>NEW V34</u></a><br>Old V29 | <a href="#"><u>Areas of Impact - Initial Contact Point / Damaged Areas</u></a> |                           | X                          | <ul style="list-style-type: none"> <li>• Element moved from V29 to <b>V34</b></li> <li>• New references to Coding Guides</li> <li>• New diagrams</li> <li>• Revised remarks: 98 (Not Reported)</li> <li>• Revised remarks to replace <del>MDE</del> with <b>RBIS</b></li> </ul>                                                                                                                 |
| <a href="#"><u>NEW V35</u></a><br>Old V30 | <a href="#"><u>Extent of Damage</u></a>                                        |                           | X                          | <ul style="list-style-type: none"> <li>• Element moved from V30 to <b>V35</b></li> <li>• Revised remarks: 8 (Not Reported)</li> </ul>                                                                                                                                                                                                                                                           |
| <a href="#"><u>NEW V36</u></a><br>Old V31 | <a href="#"><u>Vehicle Removal</u></a>                                         | X                         | X                          | <ul style="list-style-type: none"> <li>• Element moved from V31 to <b>V36</b></li> <li>• Revised attribute label: 3 (Towed <b>But</b> Not Due to Disabling Damage)</li> <li>• Revised remarks: 8 (Not Reported)</li> </ul>                                                                                                                                                                      |

| ELEMENT #                                 | ELEMENT NAME                                                     | NEW/ REVISED VALUES | NEW/ REVISED REMARKS | COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------------------|------------------------------------------------------------------|---------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#"><u>NEW V37</u></a><br>Old V32 | <a href="#"><u>Sequence of Events</u></a>                        |                     | X                    | <ul style="list-style-type: none"> <li>• Element moved from V32 to <b>V37</b></li> <li>• Revised remarks: <ul style="list-style-type: none"> <li>○ 01 (Rollover/Overturn)</li> <li>○ 15 (Non-Motorist on Personal Conveyance)</li> <li>○ 46 (Traffic Signal Support)</li> <li>○ 98 (Harmful Event, Details Not Reported)</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                             |
| <a href="#"><u>NEW V38</u></a><br>Old V33 | <a href="#"><u>Most Harmful Event</u></a>                        |                     | X                    | <ul style="list-style-type: none"> <li>• Element moved from V33 to <b>V38</b></li> <li>• Revised remarks: <ul style="list-style-type: none"> <li>○ 01 (Rollover/Overturn)</li> <li>○ 03 (Immersion or Partial Immersion)</li> <li>○ 04 (Gas Inhalation)</li> <li>○ 15 (Non-Motorist on Personal Conveyance)</li> <li>○ 16 (Thrown or Falling Object)</li> <li>○ 18 (Other Object [Not Fixed])</li> <li>○ 46 (Traffic Signal Support)</li> <li>○ 59 (Traffic Sign Support)</li> <li>○ 73 (Object That Had Fallen from Motor Vehicle In-Transport)</li> <li>○ 98 (Harmful Event, Details Not Reported)</li> </ul> </li> </ul> |
| <a href="#"><u>NEW V39</u></a><br>Old V34 | <a href="#"><u>Fire Occurrence</u></a>                           |                     | X                    | <ul style="list-style-type: none"> <li>• Element moved from V34 to <b>V39</b></li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <a href="#"><u>NEW V40</u></a><br>V35     | <a href="#"><u>Motor Vehicle Automated Driving System(s)</u></a> |                     | X                    | <ul style="list-style-type: none"> <li>• Element moved from V35 to <b>V40</b></li> <li>• Revised Remarks, Subfield 1: 98 (Not Reported)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

| ELEMENT #                                 | ELEMENT NAME                                           | NEW/ REVISED VALUES | NEW/ REVISED REMARKS | COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------------|--------------------------------------------------------|---------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#"><u>NEW V41</u></a><br>Old V36 | <a href="#"><u>Related Factors - Vehicle Level</u></a> | X                   | X                    | <ul style="list-style-type: none"> <li>• Element moved from V36 to <b>V41</b></li> <li>• Revised format: “Select All That Apply”</li> <li>• Revised format: 3 numeric</li> <li>• Removed general remarks regarding selecting only two conditions (due to revised “Select All That Apply” format)</li> <li>• Revised remarks: <ul style="list-style-type: none"> <li>○ 000 (None)</li> <li>○ 030 (Multi-Wheeled Motorcycle Conversion)</li> <li>○ 032 (Vehicle Registration for Handicapped)</li> <li>○ 044 (Adaptive Equipment)</li> </ul> </li> <li>• Revised numeric and remarks: <b>999</b> (Reported as Unknown)</li> </ul> |
| <a href="#"><u>NEW V42</u></a><br>Old V37 | <a href="#"><u>Vehicle License Plate Number</u></a>    |                     | X                    | <ul style="list-style-type: none"> <li>• Element moved from V37 to <b>V42</b></li> <li>• Revised remarks: 9999999998 (Not Reported)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

### Driver Level Changes

| ELEMENT #                      | ELEMENT NAME                                                    | NEW/ REVISED VALUES | NEW/ REVISED REMARKS | COMMENTS                                                                                                                                                                                                                                              |
|--------------------------------|-----------------------------------------------------------------|---------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#"><u>D3</u></a>      | <a href="#"><u>Vehicle Number - Driver Level</u></a>            |                     | X                    | <ul style="list-style-type: none"> <li>• Revised remarks to replace <del>MDE</del> with <b>RBIS</b></li> </ul>                                                                                                                                        |
| <a href="#"><u>D5</u></a>      | <a href="#"><u>Driver’s License State</u></a>                   |                     | X                    | <ul style="list-style-type: none"> <li>• Revised remarks: 98 (Not Reported)</li> </ul>                                                                                                                                                                |
| <a href="#"><u>D6</u></a>      | <a href="#"><u>Driver’s ZIP Code</u></a>                        | X                   | X                    | <ul style="list-style-type: none"> <li>• New attribute and remarks: <b>99998 (Not Reported)</b></li> <li>• Revised attribute label and remarks 99999 (<b>Reported as</b> Unknown)</li> <li>• Revised remarks for CRSS Special Instruction.</li> </ul> |
| <a href="#"><u>D7</u></a>      | <a href="#"><u>Non-CDL License Type/Status</u></a>              |                     | X                    | <ul style="list-style-type: none"> <li>• Revised remarks, Type: 0 (Not Licensed)</li> <li>• Revised remarks, Status: 0 (Not Licensed)</li> </ul>                                                                                                      |
| <a href="#"><u>D10</u></a>     | <a href="#"><u>License Compliance with Class of Vehicle</u></a> |                     | X                    | <ul style="list-style-type: none"> <li>• Revised remarks: 0 (Not Licensed)</li> </ul>                                                                                                                                                                 |
| <a href="#"><u>D14-D18</u></a> | <a href="#"><u>All Driver Level Counters</u></a>                |                     | X                    | <ul style="list-style-type: none"> <li>• Revised remarks: 00 (None)</li> <li>• Revised remarks to replace <del>MDE</del> with <b>RBIS</b></li> </ul>                                                                                                  |

| ELEMENT #           | ELEMENT NAME                                                             | NEW/ REVISED VALUES | NEW/ REVISED REMARKS | COMMENTS                                                                                                                                                                                                                   |
|---------------------|--------------------------------------------------------------------------|---------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">D18</a> | <a href="#">Previous Other Moving Violation Convictions</a>              |                     | X                    | <ul style="list-style-type: none"> <li>Revised general remarks</li> </ul>                                                                                                                                                  |
| <a href="#">D19</a> | <a href="#">Date of <b>Oldest</b> Crash, Suspension, Conviction</a>      | X                   | X                    | <ul style="list-style-type: none"> <li>Revised Element name: Date of <del>First</del> <b>Oldest</b> Crash, Suspension, Conviction</li> <li>New remarks: 00 (No Record)</li> </ul>                                          |
| <a href="#">D20</a> | <a href="#">Date of <b>Most Recent</b> Crash, Suspension, Conviction</a> | X                   | X                    | <ul style="list-style-type: none"> <li>Revised Element name: Date of <del>Last</del> <b>Most Recent</b> Crash, Suspension, Conviction</li> <li>New remarks: 00 (No Record)</li> </ul>                                      |
| <a href="#">D21</a> | <a href="#">Violations Charged</a>                                       | X                   | X                    | <ul style="list-style-type: none"> <li>Revised attribute label: 04 (Inattentive, careless, improper driving, <b><i>driving without due care</i></b>)</li> <li>Revised remarks: 97 (Not Reported)</li> </ul>                |
| <a href="#">D22</a> | <a href="#">Speeding Related</a>                                         |                     | X                    | <ul style="list-style-type: none"> <li>Revised definition</li> <li>Revised general remarks</li> </ul>                                                                                                                      |
| <a href="#">D23</a> | <a href="#">Condition (Impairment) at Time of Crash</a>                  |                     | X                    | <ul style="list-style-type: none"> <li>Revised remarks: <ul style="list-style-type: none"> <li>04 (Paraplegic or in a Wheelchair)</li> <li>06 (Deaf)</li> <li>07 (Blind)</li> <li>98 (Not Reported)</li> </ul> </li> </ul> |

| ELEMENT #           | ELEMENT NAME                                   | NEW/ REVISED VALUES | NEW/ REVISED REMARKS | COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------|------------------------------------------------|---------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">D24</a> | <a href="#">Related Factors - Driver Level</a> | X                   | X                    | <ul style="list-style-type: none"> <li>• Revised format: “Select All That Apply”</li> <li>• Revised format: 3 numeric</li> <li>• Removed general remarks regarding selecting only four conditions (due to revised “Select All That Apply” format)</li> <li>• Revised remarks to replace <del>MDE</del> with <b>RBIS</b></li> <li>• New comparison chart added under 057 (Driving with Tire-Related problems)</li> <li>• Revised attribute label: 006 (Careless Driving, <b><i>Inattentive Operation, Improper Driving, Driving Without Due Care</i></b>)</li> <li>• Revised attribute label and remarks: 034 (<b><i>Improper</i></b> Passing <del>Location on Right Side</del>)</li> <li>• Revised remarks: <ul style="list-style-type: none"> <li>○ 000 (None)</li> <li>○ 013 (Mentally Challenged)</li> <li>○ 028 (Improper Lane Usage)</li> <li>○ 036 (Operating the Vehicle in an Erratic, Reckless, or Negligent Manner)</li> <li>○ 052 (Operator Inexperience)</li> <li>○ 057 (Driving with Tire-Related problems)</li> </ul> </li> <li>• Revised numeric and remarks: <b>999</b> (Reported as Unknown)</li> </ul> |

## Precrash Level Changes

| ELEMENT #            | ELEMENT NAME                                              | NEW/ REVISED VALUES | NEW/ REVISED REMARKS | COMMENTS                                                                                                                                                                                                                                                                         |
|----------------------|-----------------------------------------------------------|---------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      | <a href="#">Precrash Data Overview</a>                    |                     | X                    | <ul style="list-style-type: none"> <li>New reference to Coding Guides</li> </ul>                                                                                                                                                                                                 |
|                      | <a href="#">Precrash Examples</a>                         |                     | X                    | <ul style="list-style-type: none"> <li>Examples 7 and 8, Critical Precrash (Event): Updated attribute labels</li> </ul>                                                                                                                                                          |
| <a href="#">PC4</a>  | <a href="#">Contributing Circumstances, Motor Vehicle</a> | X                   | X                    | <ul style="list-style-type: none"> <li>Revised attribute label and remarks: 00 (None <b>Noted</b>)</li> <li>Revised remarks: 01 (Tires)</li> <li>Removed attribute and remarks: <del>98 (Not Reported)</del></li> </ul>                                                          |
| <a href="#">PC5</a>  | <a href="#">Trafficway Description</a>                    |                     | X                    | <ul style="list-style-type: none"> <li>New reference to Coding Guides.</li> <li>Revised remarks: 8 (Not Reported)</li> </ul>                                                                                                                                                     |
| <a href="#">PC6</a>  | <a href="#">Total Lanes in Roadway</a>                    |                     | X                    | <ul style="list-style-type: none"> <li>New reference to Coding Guides.</li> <li>Revised remarks: 8 (Not Reported)</li> </ul>                                                                                                                                                     |
| <a href="#">PC7</a>  | <a href="#">Speed Limit</a>                               |                     | X                    | <ul style="list-style-type: none"> <li>Revised remarks: 98 (Not Reported)</li> </ul>                                                                                                                                                                                             |
| <a href="#">PC8</a>  | <a href="#">Roadway Alignment</a>                         |                     | X                    | <ul style="list-style-type: none"> <li>Revised general remarks</li> <li>Revised remarks: 8 (Not Reported)</li> </ul>                                                                                                                                                             |
| <a href="#">PC9</a>  | <a href="#">Roadway Grade</a>                             |                     | X                    | <ul style="list-style-type: none"> <li>Revised remarks: 8 (Not Reported)</li> </ul>                                                                                                                                                                                              |
| <a href="#">PC10</a> | <a href="#">Roadway Surface Type</a>                      |                     | X                    | <ul style="list-style-type: none"> <li>Revised remarks: 8 (Not Reported)</li> </ul>                                                                                                                                                                                              |
| <a href="#">PC11</a> | <a href="#">Roadway Surface Conditions</a>                |                     | X                    | <ul style="list-style-type: none"> <li>Revised remarks: 98 (Not Reported)</li> </ul>                                                                                                                                                                                             |
| <a href="#">PC12</a> | <a href="#">Traffic Control Device</a>                    |                     | X                    | <ul style="list-style-type: none"> <li>Revised general remarks</li> <li>Revised remarks: 97 (Not Reported)</li> </ul>                                                                                                                                                            |
| <a href="#">PC13</a> | <a href="#">Device Functioning</a>                        |                     | X                    | <ul style="list-style-type: none"> <li>Revised remarks: 8 (Not Reported)</li> </ul>                                                                                                                                                                                              |
| <a href="#">PC15</a> | <a href="#">Driver Maneuvered to Avoid</a>                | X                   | X                    | <ul style="list-style-type: none"> <li>Revised general remarks</li> <li>Revised attribute label: 04 (<b>Contact</b> Motor Vehicle (<b>in this Crash</b>))</li> <li>Revised remarks: 00 (Driver Did Not Maneuver to Avoid)</li> <li>Revised remarks: 98 (Not Reported)</li> </ul> |
| <a href="#">PC16</a> | <a href="#">Driver Distracted By</a>                      |                     | X                    | <ul style="list-style-type: none"> <li>Revised general remarks</li> <li>Revised remarks to replace <del>MDE</del> with <b>RBIS</b></li> <li>Revised remarks: 96 (Not Reported)</li> <li>Revised remarks: 15 (Other Mobile Phone Related)</li> </ul>                              |

| ELEMENT #            | ELEMENT NAME                                                                | NEW/ REVISED VALUES | NEW/ REVISED REMARKS | COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------|-----------------------------------------------------------------------------|---------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">PC17</a> | <a href="#">Pre-Event Movement (Prior to Recognition of Critical Event)</a> |                     | X                    | <ul style="list-style-type: none"> <li>Revised remarks: 04 (Starting in Road)</li> <li>Revised remarks to replace <del>MDE</del> with <b>RBIS</b></li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <a href="#">PC18</a> | <a href="#">Critical Event - Precrash (Category)</a>                        |                     | X                    | <ul style="list-style-type: none"> <li>New reference to Coding Guides</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <a href="#">PC19</a> | <a href="#">Critical Event - Precrash (Event)</a>                           |                     | X                    | <ul style="list-style-type: none"> <li>Revised remarks to replace <del>MDE</del> with <b>RBIS</b></li> <li>Revised remarks: <ul style="list-style-type: none"> <li>64 (From Parking Lane/Shoulder, Median/Crossover, Roadside)</li> <li>80 (Pedestrian in Road)</li> <li>81 (Pedestrian Approaching Road)</li> <li>82 (Pedestrian Unknown Location)</li> <li>83 (Pedalcyclist or Other Non-Motorist in Road)</li> <li>84 (Pedalcyclist or Other Non-Motorist Approaching Road)</li> <li>85 (Pedalcyclist or Other Non-Motorist Unknown Location)</li> <li>87 (Animal in Road)</li> <li>88 (Animal Approaching Road)</li> <li>89 (Animal - Unknown Location)</li> <li>90 (Object in Road)</li> <li>91 (Object Approaching Road)</li> <li>92 (Object Unknown Location)</li> </ul> </li> </ul> |
| <a href="#">PC20</a> | <a href="#">Attempted Avoidance Maneuver</a>                                |                     | X                    | <ul style="list-style-type: none"> <li>Revised general remarks</li> <li>Revised remarks to replace <del>MDE</del> with <b>RBIS</b></li> <li>Revised remarks: 01 (No Avoidance Maneuver)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <a href="#">PC21</a> | <a href="#">Pre-Impact Stability</a>                                        |                     | X                    | <ul style="list-style-type: none"> <li>Revised remarks to replace <del>MDE</del> with <b>RBIS</b></li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## Person (Motor Vehicle Occupant) Level Changes

| ELEMENT #           | ELEMENT NAME                                              | NEW/<br>REVISED<br>VALUES | NEW/<br>REVISED<br>REMARKS | COMMENTS                                                                                                                                                                                                                       |
|---------------------|-----------------------------------------------------------|---------------------------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">P5</a>  | <a href="#">Age</a>                                       |                           | X                          | <ul style="list-style-type: none"> <li>Revised remarks: 998 (Not Reported)</li> </ul>                                                                                                                                          |
| <a href="#">P6</a>  | <a href="#">Sex</a>                                       |                           | X                          | <ul style="list-style-type: none"> <li>Revised remarks: 8 (Not Reported)</li> </ul>                                                                                                                                            |
| <a href="#">P9</a>  | <a href="#">Seating Position</a>                          |                           | X                          | <ul style="list-style-type: none"> <li>Revised remarks: 56 (Appended to a Motor Vehicle for Motion)</li> <li>Revised remarks: 98 (Not Reported)</li> </ul>                                                                     |
| <a href="#">P10</a> | <a href="#">Restraint System Use</a>                      |                           | X                          | <ul style="list-style-type: none"> <li>Revised remarks to replace <del>MDE</del> with <b>RBIS</b></li> <li>Revised remarks: 98 (Not Reported)</li> </ul>                                                                       |
| <a href="#">P11</a> | <a href="#">Helmet Use</a>                                |                           | X                          | <ul style="list-style-type: none"> <li>Revised remarks: 98 (Not Reported)</li> </ul>                                                                                                                                           |
| <a href="#">P12</a> | <a href="#">Air Bag Deployed</a>                          |                           | X                          | <ul style="list-style-type: none"> <li>Revised remarks: 08 (Deployed - Combination)</li> <li>Revised remarks: 98 (Not Reported)</li> </ul>                                                                                     |
| <a href="#">P13</a> | <a href="#">Ejection</a>                                  |                           | X                          | <ul style="list-style-type: none"> <li>Revised remarks: 7 (Not Reported)</li> </ul>                                                                                                                                            |
| <a href="#">P14</a> | <a href="#">Ejection Path</a>                             |                           | X                          | <ul style="list-style-type: none"> <li>Revised remarks to replace <del>MDE</del> with <b>RBIS</b></li> </ul>                                                                                                                   |
| <a href="#">P15</a> | <a href="#">Extrication</a>                               |                           | X                          | <ul style="list-style-type: none"> <li>Revised definition</li> <li>Revised general remarks</li> <li>Revised Remarks: 0 (Not Extricated or Not Applicable)</li> </ul>                                                           |
| <a href="#">P16</a> | <a href="#">Police-Reported Alcohol Involvement</a>       |                           | X                          | <ul style="list-style-type: none"> <li>Revised general remarks</li> <li>Revised remarks: 1 (Yes [Alcohol Involved])</li> <li>Revised remarks: 8 (Not Reported)</li> <li>Revised remarks in FARS Special Instruction</li> </ul> |
| <a href="#">P17</a> | <a href="#">Method of Alcohol Determination by Police</a> |                           | X                          | <ul style="list-style-type: none"> <li>Revised remarks: 2 (Preliminary Breath Test [PBT])</li> </ul>                                                                                                                           |



| ELEMENT #           | ELEMENT NAME                                             | NEW/ REVISED VALUES | NEW/ REVISED REMARKS | COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------|----------------------------------------------------------|---------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">P18</a> | <a href="#">Alcohol Test</a>                             |                     | X                    | <ul style="list-style-type: none"> <li>Revised general remarks</li> <li>Revised remarks to replace <del>MDE</del> with <b>RBIS</b></li> <li>Revised remarks <ul style="list-style-type: none"> <li>Subfield 1: 8 (Not Reported)</li> <li>Subfield 2: <ul style="list-style-type: none"> <li>Coding Hierarchy</li> <li>“Note <b>regarding Preliminary Breath Tests:</b>” <ul style="list-style-type: none"> <li>01 (Blood)</li> <li>02 (Breath Test [AC])</li> <li>03 (Urine)</li> <li>08 (Other Test Type)</li> <li>10 (Preliminary Breath Test [PBT])</li> <li>95 (Not Reported)</li> </ul> </li> </ul> </li> <li>Subfield 3: <ul style="list-style-type: none"> <li>000-939 (Actual Value)</li> <li>995 (Not Reported)</li> <li>998 (Positive Reading with No Actual Value)</li> <li>Note: State Law Versus Practice</li> <li>Note: Computed Estimates of <b>Blood Alcohol Concentration</b></li> </ul> </li> </ul> </li> </ul> |
| <a href="#">P19</a> | <a href="#">Police Reported Drug Involvement</a>         |                     | X                    | <ul style="list-style-type: none"> <li>Revised general remarks</li> <li>Revised remarks: 8 (Not Reported)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <a href="#">P21</a> | <a href="#">Drug Toxicology Results</a>                  |                     | X                    | <ul style="list-style-type: none"> <li>Revised remarks to replace <del>MDE</del> with <b>RBIS</b></li> <li>Revised remarks: <ul style="list-style-type: none"> <li>Subfield 1: 8 (Not Reported)</li> <li>Subfield 2: <ul style="list-style-type: none"> <li>97 (Unknown Specimen)</li> <li>96 (Not Reported)</li> </ul> </li> <li>Subfield 3: 095 (Not Reported)</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <a href="#">P22</a> | <a href="#">Transported to First Medical Facility by</a> | X                   | X                    | <ul style="list-style-type: none"> <li>Revised attribute label: 0 (Not Transported <b>for Treatment</b>)</li> <li>Revised remarks: 8 (Not Reported)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

| ELEMENT #           | ELEMENT NAME                                                            | NEW/<br>REVISED<br>VALUES | NEW/<br>REVISED<br>REMARKS | COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------|-------------------------------------------------------------------------|---------------------------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">P26</a> | <a href="#">Related Factors - Person (Motor Vehicle Occupant) Level</a> | X                         | X                          | <ul style="list-style-type: none"> <li>• Revised format: “Select All That Apply”</li> <li>• Revised format: 3 numeric</li> <li>• Removed general remarks regarding selecting only three conditions (due to revised “Select All That Apply” format)</li> <li>• Revised remarks: <ul style="list-style-type: none"> <li>○ 000 (None)</li> <li>○ 008 (Mentally Challenged)</li> <li>○ 026 (Following Improperly)</li> <li>○ 028 (Improper Lane Usage)</li> <li>○ 029 (Intentional Illegal Driving on Road Shoulder, In Ditch, On Sidewalk, or on Median)</li> <li>○ 033 (Passing Where Prohibited by Posted Signs, Pavement Markings, or School Bus Displaying Warning Not to Pass)</li> <li>○ 037 (Traveling on Prohibited Trafficways)</li> <li>○ 040 (Passing Through or Around Barrier)</li> <li>○ 041 (Failure to Observe Warning or Instructions on Vehicles Displaying Them)</li> <li>○ 042 (Failure to Signal Intentions)</li> <li>○ 044 (Driving Too Fast for Conditions or In Excess of Posted Maximum)</li> <li>○ 045 (Driving Less Than Posted Minimum)</li> <li>○ 047 (Making Right Turn from Left-Turn Lane, Left Turn from Right-Turn Lane)</li> <li>○ 051 (Operator Inexperience)</li> <li>○ 052 (Unfamiliar with Roadway)</li> <li>○ 056 (Non-Driver Flees Scene)</li> <li>○ 057 (Improper Tire Pressure)</li> <li>○ 059 (Overcorrecting)</li> <li>○ Note under group: Vision Obscured By</li> <li>○ Note under group: Skidding, Swerving, Sliding Due To:</li> </ul> </li> <li>• Revised numeric and remarks: <b>999</b> (Reported as Unknown)</li> </ul> |

## Person (Not A Motor Vehicle Occupant) Level Changes

| ELEMENT #            | ELEMENT NAME                                                          | NEW/ REVISED VALUES | NEW/ REVISED REMARKS | COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------|-----------------------------------------------------------------------|---------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">NM4</a>  | <a href="#">Vehicle Number of Motor Vehicle Striking Non-Motorist</a> |                     | X                    | <ul style="list-style-type: none"> <li>Revised general remarks to remove old guidance</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <a href="#">NM7</a>  | <a href="#">Person Type</a>                                           | X                   | X                    | <ul style="list-style-type: none"> <li>Remove attribute and remarks: <del>08 (Person on Personal Conveyances)</del></li> <li>New attributes and remarks: <ul style="list-style-type: none"> <li><b>11 (Person on Motorized Personal Conveyance)</b></li> <li><b>12 (Person on Non-Motorized Personal Conveyance)</b></li> <li><b>13 (Person on Personal Conveyance, Unknown if Motorized or Non-Motorized)</b></li> </ul> </li> <li>Revised remarks: 05 (Pedestrian)</li> <li>Revised remarks: 10 (Persons In/On Buildings)</li> <li>Revised Note regarding personal conveyances</li> </ul> |
| <a href="#">NM9</a>  | <a href="#">Pedestrian/Bike Typing</a>                                |                     | X                    | <ul style="list-style-type: none"> <li>Revised remarks to replace <del>MDE</del> with <b>RBIS</b></li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <a href="#">NM10</a> | <a href="#">Non-Motorist Location at Time of Crash</a>                |                     | X                    | <ul style="list-style-type: none"> <li>New reference to Coding Guides</li> <li>Revised remarks: 98 (Not Reported)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <a href="#">NM11</a> | <a href="#">Non-Motorist Action/ Circumstances</a>                    |                     | X                    | <ul style="list-style-type: none"> <li>Revised remarks to replace <del>MDE</del> with <b>RBIS</b></li> <li>Revised remarks: <ul style="list-style-type: none"> <li>05 (Movement Along Roadway with Traffic [In or Adjacent to Travel Lane])</li> <li>06 (Movement Along Roadway Against Traffic [In or Adjacent to Travel Lane])</li> <li>16 (Movement Along Roadway - Direction Unknown)</li> <li>12 (Disabled Vehicle Related [Working on, Pushing, Leaving/Approaching])</li> <li>98 (Not Reported)</li> </ul> </li> </ul>                                                               |
| <a href="#">NM12</a> | <a href="#">Non-Motorist Contributing Circumstances</a>               |                     | X                    | <ul style="list-style-type: none"> <li>Revised remarks to replace <del>MDE</del> with <b>RBIS</b></li> <li>Revised remarks: <ul style="list-style-type: none"> <li>01 (Dart-Out - Visual Obstruction Noted)</li> <li>02 (Failure to Yield Right-of-Way)</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                              |

| ELEMENT #            | ELEMENT NAME                                                                  | NEW/ REVISED VALUES | NEW/ REVISED REMARKS | COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------|-------------------------------------------------------------------------------|---------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">NM13</a> | <a href="#">Non-Motorist Distracted By</a>                                    |                     | X                    | <ul style="list-style-type: none"> <li>Revised general remarks</li> <li>Revised remarks to replace <del>MDE</del> with <b>RBIS</b></li> <li>Revised remarks: <ul style="list-style-type: none"> <li>15 (Other Mobile Phone Related)</li> <li>96 (Not Reported)</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <a href="#">NM14</a> | <a href="#">Non-Motorist Safety Equipment</a>                                 |                     | X                    | <ul style="list-style-type: none"> <li>Revised remarks to replace <del>MDE</del> with <b>RBIS</b></li> <li>Revised remarks: 8 (Not Reported)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <a href="#">NM22</a> | <a href="#">Transported to First Medical Facility By</a>                      | X                   |                      | <ul style="list-style-type: none"> <li>Revised attribute label: 0 (Not Transported <b>for Treatment</b>)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <a href="#">NM25</a> | <a href="#">Death Time</a>                                                    |                     | X                    | <ul style="list-style-type: none"> <li>New reference to Coding Guides</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <a href="#">NM26</a> | <a href="#">Related Factors - Person (Not A Motor Vehicle Occupant) Level</a> | X                   | X                    | <ul style="list-style-type: none"> <li>Revised format: “Select All That Apply”</li> <li>Revised format: 3 numeric</li> <li>Removed general remarks regarding selecting only three conditions (due to revised “Select All That Apply” format)</li> <li>Revised remarks: <ul style="list-style-type: none"> <li>000 (None)</li> <li>008 (Mentally Challenged)</li> <li>013 (Motorized Wheelchair Rider)</li> <li>094 (Emergency Medical Services Personnel)</li> </ul> </li> <li>New attributes and remarks: <ul style="list-style-type: none"> <li><b>100 (Using a Shared Micromobility Device)</b></li> <li><b>101 (Obstructed Sidewalk (for this Person))</b></li> </ul> </li> <li>Revised numeric and remarks: <b>999</b> (Reported as Unknown)</li> </ul> |

## Supplemental Data Elements Changes

| ELEMENT #           | ELEMENT NAME                             | NEW/ REVISED VALUES | NEW/ REVISED REMARKS | COMMENTS                                                                                                            |
|---------------------|------------------------------------------|---------------------|----------------------|---------------------------------------------------------------------------------------------------------------------|
| <a href="#">SP1</a> | <a href="#">Death Certificate Number</a> |                     | X                    | <ul style="list-style-type: none"> <li>Revised format remarks to replace <del>MDE</del> with <b>RBIS</b></li> </ul> |
| <a href="#">SP3</a> | <a href="#">Race / Hispanic Origin</a>   |                     | X                    | <ul style="list-style-type: none"> <li>Revised remarks to replace <del>MDE</del> with <b>RBIS</b></li> </ul>        |

## Appendices Changes

| APPENDIX                                             | COMMENTS                                                                                                                                                      |
|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">VIN Decode Errors</a>                    | <ul style="list-style-type: none"> <li>New <b>VIN Decode Errors</b> added to Appendices</li> </ul>                                                            |
| <a href="#">Alphabetical Listing of NCSA Makes</a>   | <ul style="list-style-type: none"> <li>Revised name to Alphabetical Listing of <b>NCSA</b> Makes</li> <li>Moved from Vehicle Level to Appendices</li> </ul>   |
| <a href="#">Numerical Listing of NCSA Makes</a>      | <ul style="list-style-type: none"> <li>Revised name to Numerical Listing of <b>NCSA</b> Makes</li> <li>Moved from Vehicle Level to Appendices</li> </ul>      |
| <a href="#">NCSA Make / Model / Body Type Tables</a> | <ul style="list-style-type: none"> <li>Revised name to <b>NCSA</b> Make / Model / Body Type Tables</li> <li>Moved from Vehicle Level to Appendices</li> </ul> |
| <a href="#">2020 Coding Guides</a>                   | <ul style="list-style-type: none"> <li>New <b>2020 Coding Guides</b> added to Appendices</li> </ul>                                                           |

NEED HELP IN CODING? CONTACT NISR THROUGH THE CDAN HELPDESK. See the [Coding Guide: How to Create a Coding Question Ticket in the CDAN Helpdesk](#) for helpful information.

## 2020 FARS/CRSS Element Definitions

### Crash Level Elements

| 2020<br>Element ID  | Element Name                                                    | FARS, CRSS,<br>Case Structure | Definitions                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------|-----------------------------------------------------------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">C1</a>  | <a href="#">State Number</a>                                    | FARS Only                     | This element identifies the State in which the crash occurred.                                                                                                                                                                                                                                                                                                                               |
| <a href="#">C2</a>  | <a href="#">Consecutive Number</a>                              | FARS Only                     | This element identifies the unique case number assigned by the data entry system.                                                                                                                                                                                                                                                                                                            |
| <a href="#">C3</a>  | <a href="#">Number of Forms Submitted for Persons Not in MV</a> | Case Structure                | This element records the number of Person Level (Not a Motor Vehicle Occupant) forms that are applicable to this case.                                                                                                                                                                                                                                                                       |
| <a href="#">C4</a>  | <a href="#">Number of Vehicle Forms Submitted</a>               | Case Structure                | This element records all contact motor vehicles that the officer has reported on the police crash report as a unit involved in the crash.                                                                                                                                                                                                                                                    |
| <a href="#">C5</a>  | <a href="#">Number of Person Forms Submitted</a>                | Case Structure                | This element records the number of Person Level (Motor Vehicle Occupant) forms that are applicable to this case.                                                                                                                                                                                                                                                                             |
| <a href="#">C6</a>  | <a href="#">County</a>                                          | FARS Only                     | This element refers to the location of the unstabilized event with regard to the county.                                                                                                                                                                                                                                                                                                     |
| <a href="#">C7</a>  | <a href="#">City</a>                                            | FARS Only                     | This element refers to the location of the unstabilized event with regard to the city.                                                                                                                                                                                                                                                                                                       |
| <a href="#">C8</a>  | <a href="#">Crash Date</a>                                      | FARS, CRSS                    | This element identifies the date on which the crash occurred.                                                                                                                                                                                                                                                                                                                                |
| <a href="#">C9</a>  | <a href="#">Crash Time</a>                                      | FARS, CRSS                    | This element identifies the time at which the crash occurred.                                                                                                                                                                                                                                                                                                                                |
| <a href="#">C10</a> | <a href="#">Trafficway Identifier</a>                           | FARS Only                     | This element captures the identity (name) of the trafficway on which the crash occurred.                                                                                                                                                                                                                                                                                                     |
| <a href="#">C11</a> | <a href="#">Route Signing</a>                                   | FARS Only                     | This element identifies the route signing of the trafficway on which the crash occurred. Code the value that represents the FHWA approved Land Use and Functional System. FHWA classification obtainable from the State Highway Department must be used. No other classification source is acceptable. Refer problems in obtaining the FHWA classification to the State DOT planning office. |

| 2020<br>Element ID        | Element Name                                                   | FARS, CRSS,<br>Case Structure | Definitions                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------|----------------------------------------------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">C12 (a/b)</a> | <a href="#">Land Use and Functional System</a>                 | FARS Only                     | <ul style="list-style-type: none"> <li>• <b>Land Use:</b> The classification of the segment of the trafficway on which the crash occurred based on FHWA-approved adjusted Census boundaries of small urban and urbanized areas.</li> <li>• <b>Functional System:</b> This element identifies the functional classification of the segment of the trafficway on which the crash occurred.</li> </ul> |
| <a href="#">C13</a>       | <a href="#">Ownership</a>                                      | FARS Only                     | This element identifies the entity that has legal ownership of the segment of the trafficway on which the crash occurred.                                                                                                                                                                                                                                                                           |
| <a href="#">C14</a>       | <a href="#">National Highway System</a>                        | FARS Only                     | This element identifies whether or not this crash occurred on a trafficway that is part of the National Highway System.                                                                                                                                                                                                                                                                             |
| <a href="#">C15</a>       | <a href="#">Special Jurisdiction</a>                           | FARS Only                     | This element identifies if the location on the trafficway where the crash occurred qualifies as a Special Jurisdiction even though it may be patrolled by State, county, or local police (e.g., all State highways running through Indian reservations are under the jurisdiction of the Indian reservation).                                                                                       |
| <a href="#">C16</a>       | <a href="#">Milepoint</a>                                      | FARS Only                     | This element identifies the milepoint nearest to the location where the crash occurred.                                                                                                                                                                                                                                                                                                             |
| <a href="#">C17</a>       | <a href="#">Global Position</a>                                | FARS, CRSS                    | This element identifies the location of the crash using Global Position coordinates.                                                                                                                                                                                                                                                                                                                |
| <a href="#">C18</a>       | <a href="#">Crash Events</a>                                   | FARS, CRSS                    | The Crash Events table records in chronological sequence, the set of events resulting from an unstabilized situation that constitutes a motor vehicle traffic crash.                                                                                                                                                                                                                                |
| <a href="#">C19</a>       | <a href="#">First Harmful Event</a>                            | FARS, CRSS                    | <b>The first</b> injury or damage producing event of the crash.                                                                                                                                                                                                                                                                                                                                     |
| <a href="#">C20</a>       | <a href="#">Manner of Collision of the First Harmful Event</a> | FARS, CRSS                    | This element identifies the orientation of two motor vehicles in-transport when they are involved in the First Harmful Event of a collision crash. If the First Harmful Event is not a collision between two motor vehicles in-transport it is classified as such.                                                                                                                                  |

| <b>2020<br/>Element ID</b>       | <b>Element Name</b>                                   | <b>FARS, CRSS,<br/>Case Structure</b> | <b>Definitions</b>                                                                                                                                                                                                                                                                                                                         |
|----------------------------------|-------------------------------------------------------|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#"><u>C21 (a/b)</u></a> | <a href="#"><u>Relation to Junction</u></a>           | FARS, CRSS                            | The coding of this data element is done in two subfields and based on the location of the first harmful event of the crash. It identifies the crash's location with respect to presence in an interchange area and the crash's location with respect to presence in or proximity to components typically in junction or interchange areas. |
| <a href="#"><u>C22</u></a>       | <a href="#"><u>Type of Intersection</u></a>           | FARS, CRSS                            | This element identifies and allows separation of various intersection types.                                                                                                                                                                                                                                                               |
| <a href="#"><u>C23</u></a>       | <a href="#"><u>Relation to Trafficway</u></a>         | FARS, CRSS                            | This element identifies the location of the crash as it relates to its position in or outside the trafficway based on the First Harmful Event.                                                                                                                                                                                             |
| <a href="#"><u>C24</u></a>       | <a href="#"><u>Work Zone</u></a>                      | FARS, CRSS                            | This data element captures that this was a "Work Zone Crash" as defined in <a href="#"><u>ANSI D16.1, 8th Edition</u></a> . If the crash qualifies as a "Work Zone Crash" then the type of work activity is identified.                                                                                                                    |
| <a href="#"><u>C25</u></a>       | <a href="#"><u>Light Condition</u></a>                | FARS, CRSS                            | This element records the type/level of light that existed at the time of the crash as reported in the case material.                                                                                                                                                                                                                       |
| <a href="#"><u>C26</u></a>       | <a href="#"><u>Atmospheric Condition</u></a>          | FARS, CRSS                            | This element identifies the prevailing atmospheric conditions that existed at the time of the crash as recorded on the police crash report.                                                                                                                                                                                                |
| <a href="#"><u>C27</u></a>       | <a href="#"><u>School Bus Related</u></a>             | FARS, CRSS                            | This data element indicates if a school bus, or motor vehicle functioning as a school bus, is related to the crash.                                                                                                                                                                                                                        |
| <a href="#"><u>C28</u></a>       | <a href="#"><u>Rail Grade Crossing Identifier</u></a> | FARS Only                             | This element identifies if the crash occurred in or near a Rail Grade Crossing.                                                                                                                                                                                                                                                            |
| <a href="#"><u>C29</u></a>       | <a href="#"><u>Notification Time EMS</u></a>          | FARS Only                             | Notification Time EMS is the time emergency medical service was notified.                                                                                                                                                                                                                                                                  |
| <a href="#"><u>C30</u></a>       | <a href="#"><u>Arrival Time EMS</u></a>               | FARS Only                             | Arrival Time EMS is the time emergency medical service arrived on the crash scene.                                                                                                                                                                                                                                                         |
| <a href="#"><u>C31</u></a>       | <a href="#"><u>EMS Time at Hospital</u></a>           | FARS Only                             | EMS Time at Hospital is the time emergency medical service arrived at the treatment facility (hospital, clinic, trauma center, etc.) to which it was transporting victims of the crash.                                                                                                                                                    |



| <b>2020<br/>Element ID</b> | <b>Element Name</b>                                  | <b>FARS, CRSS,<br/>Case Structure</b> | <b>Definitions</b>                                                                                                                                         |
|----------------------------|------------------------------------------------------|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#"><u>C32</u></a> | <a href="#"><u>Related Factors - Crash Level</u></a> | FARS, CRSS                            | This element identifies factors related to the crash expressed in the case material.                                                                       |
| <a href="#"><u>C33</u></a> | <a href="#"><u>Interstate Highway</u></a>            | CRSS Only                             | This element identifies whether or not the crash occurred on an interstate highway. Interstate highway is a Federal Highway Administration classification. |
| <a href="#"><u>C34</u></a> | <a href="#"><u>Stratum</u></a>                       | CRSS Only                             | The CRSS stratum applicable to this police crash report.                                                                                                   |
| <a href="#"><u>C35</u></a> | <a href="#"><u>Police Jurisdiction</u></a>           | CRSS Only                             | The number of the police jurisdiction from which the police crash report was originally sampled.                                                           |

### **Vehicle Level Elements**

| <b>2020<br/>Element ID</b> | <b>Element Name</b>                             | <b>FARS, CRSS,<br/>Case Structure</b> | <b>Definition</b>                                                                                                                                                                         |
|----------------------------|-------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#"><u>V1</u></a>  | <a href="#"><u>State Number</u></a>             | FARS Only                             | This element identifies the State in which the crash occurred.                                                                                                                            |
| <a href="#"><u>V2</u></a>  | <a href="#"><u>Consecutive Number</u></a>       | FARS Only                             | This element identifies the unique case number assigned by the data entry system.                                                                                                         |
| <a href="#"><u>V3</u></a>  | <a href="#"><u>Vehicle Number</u></a>           | FARS, CRSS,<br>Case Structure         | This element identifies the number assigned to this vehicle in the crash.                                                                                                                 |
| <a href="#"><u>V4</u></a>  | <a href="#"><u>Number of Occupants</u></a>      | FARS, CRSS                            | This element identifies the number of occupants in each vehicle.                                                                                                                          |
| <a href="#"><u>V5</u></a>  | <a href="#"><u>Unit Type</u></a>                | FARS, CRSS                            | This element identifies the type of unit that applies to this motor vehicle at the time it became an involved vehicle in the crash and was reported as a unit on the police crash report. |
| <a href="#"><u>V6</u></a>  | <a href="#"><u>Hit-And-Run</u></a>              | FARS, CRSS                            | This element refers to cases where a vehicle is a contact vehicle in the crash and does not stop to render aid (this can include drivers who flee the scene on foot).                     |
| <a href="#"><u>V7</u></a>  | <a href="#"><u>Registration State</u></a>       | FARS, CRSS                            | This element identifies the State in which this vehicle was registered.                                                                                                                   |
| <a href="#"><u>V8</u></a>  | <a href="#"><u>Registered Vehicle Owner</u></a> | FARS Only                             | This element is used to determine the type of registered owner of the vehicle.                                                                                                            |

| <b>2020<br/>Element ID</b> | <b>Element Name</b>                                  | <b>FARS, CRSS,<br/>Case Structure</b> | <b>Definition</b>                                                                                                                                                                                                                                                                                                   |
|----------------------------|------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#"><u>V9</u></a>  | <a href="#"><u>Vehicle Identification Number</u></a> | FARS, CRSS                            | This element records the Vehicle Identification Number (VIN) or alphanumeric identifier in the case material of a single vehicle or the power unit of a combination vehicle.                                                                                                                                        |
| <a href="#"><u>V10</u></a> | <a href="#"><u>Vehicle Model Year</u></a>            | FARS, CRSS                            | This element identifies the manufacturer's model year of this vehicle.                                                                                                                                                                                                                                              |
| <a href="#"><u>V11</u></a> | <a href="#"><u>vPIC Make</u></a>                     | <b>FARS, CRSS</b>                     | <b><i>This element identifies the Make (manufacturer brand name) of this vehicle as per NHTSA vPIC submissions.</i></b>                                                                                                                                                                                             |
| <a href="#"><u>V12</u></a> | <a href="#"><u>vPIC Model</u></a>                    | <b>FARS, CRSS</b>                     | <b><i>This element identifies the Model of this vehicle using NHTSA's VIN decoder application, vPIC.</i></b>                                                                                                                                                                                                        |
| <a href="#"><u>V13</u></a> | <a href="#"><u>vPIC Body Class</u></a>               | <b>FARS, CRSS</b>                     | <b><i>This element identifies a classification of this vehicle based on its general body configuration, size, shape, doors, etc. as defined by the manufacturer.</i></b>                                                                                                                                            |
| <a href="#"><u>V14</u></a> | <a href="#"><u>NCSA Make</u></a>                     | FARS, CRSS                            | This element identifies the make (manufacturer) of this vehicle <b>by NHTSA historically</b> .                                                                                                                                                                                                                      |
| <a href="#"><u>V15</u></a> | <a href="#"><u>NCSA Model</u></a>                    | FARS, CRSS                            | This element identifies the NCSA model of this vehicle within a given NCSA make.                                                                                                                                                                                                                                    |
| <a href="#"><u>V16</u></a> | <a href="#"><u>NCSA Body Type</u></a>                | FARS, CRSS                            | This element identifies a classification of this vehicle based on its general body configuration, size, shape, doors, etc.                                                                                                                                                                                          |
| <a href="#"><u>V17</u></a> | <a href="#"><u>Final Stage Body Class</u></a>        | FARS, CRSS                            | <b><i>This element captures the completed/finished body class for an <a href="#"><u>Incomplete Vehicle</u></a>. An incomplete vehicle is completed by a final stage manufacturer. The intent of this data element is to capture the body class for incomplete vehicles when they are finished for road-use.</i></b> |
| <a href="#"><u>V18</u></a> | <a href="#"><u>Power Unit GVWR</u></a>               | FARS, CRSS                            | <b><i>This element identifies the range of Gross Vehicle Weight Rating (GVWR) of the power unit as identified by the manufacturer through the vehicle's <a href="#"><u>VIN</u></a> submission.</i></b>                                                                                                              |

| <b>2020<br/>Element ID</b>     | <b>Element Name</b>                                                 | <b>FARS, CRSS,<br/>Case Structure</b> | <b>Definition</b>                                                                                                                                                       |
|--------------------------------|---------------------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#"><u>V19</u></a>     | <a href="#"><u>Vehicle Trailing</u></a>                             | FARS, CRSS                            | This element identifies whether this vehicle had any attached trailing units or was towing another motor vehicle.                                                       |
| <a href="#"><u>V20</u></a>     | <a href="#"><u>Trailer Vehicle Identification Number</u></a>        | FARS, CRSS                            | This element records the vehicle identification number (VIN) or alphanumeric identifier in the case material of any trailing units of a combination vehicle.            |
| <a href="#"><u>V21</u></a>     | <a href="#"><u>Trailer GVWR</u></a>                                 | <b><i>FARS, CRSS</i></b>              | <b><i>This element identifies the Gross Vehicle Weight Rating of a trailing unit as identified by the manufacturer in the trailer's <a href="#"><u>VIN</u></a>.</i></b> |
| <a href="#"><u>V22</u></a>     | <a href="#"><u>Jackknife</u></a>                                    | FARS, CRSS                            | This element identifies if this vehicle experienced a “jackknife” anytime during the unstabilized situation.                                                            |
| <a href="#"><u>V23</u></a>     | <a href="#"><u>Motor Carrier Identification Number</u></a>          | FARS, CRSS                            | This element records the issuing authority and motor carrier identification number if applicable to this vehicle.                                                       |
| <a href="#"><u>V24</u></a>     | <a href="#"><u>Vehicle Configuration</u></a>                        | FARS, CRSS                            | This element identifies the general configuration of this vehicle when applicable.                                                                                      |
| <a href="#"><u>V25</u></a>     | <a href="#"><u>Cargo Body Type</u></a>                              | FARS, CRSS                            | This element identifies the primary cargo carrying capability of this vehicle when applicable.                                                                          |
| <a href="#"><u>V26</u></a>     | <a href="#"><u>Hazardous Material Involvement/Placard</u></a>       | FARS, CRSS                            | This element identifies the presence of hazardous cargo for this vehicle and records information about the hazardous cargo when present.                                |
| <a href="#"><u>V26 (1)</u></a> | <a href="#"><u>Hazardous Material Involvement/Placard - HM1</u></a> | FARS, CRSS                            | This element indicates whether the vehicle was carrying hazardous materials - involvement.                                                                              |
| <a href="#"><u>V26 (2)</u></a> | <a href="#"><u>Hazardous Material Involvement/Placard - HM2</u></a> | FARS, CRSS                            | This element indicates the presence of hazardous materials and whether the vehicle displayed a hazardous materials placard.                                             |
| <a href="#"><u>V26 (3)</u></a> | <a href="#"><u>Hazardous Material Involvement/Placard - HM3</u></a> | FARS, CRSS                            | This element indicates the 4-digit identification number.                                                                                                               |
| <a href="#"><u>V26 (4)</u></a> | <a href="#"><u>Hazardous Material Involvement/Placard - HM4</u></a> | FARS, CRSS                            | This element indicates the single-digit hazardous material class number for the vehicle.                                                                                |

| <b>2020<br/>Element ID</b>     | <b>Element Name</b>                                                     | <b>FARS, CRSS,<br/>Case Structure</b> | <b>Definition</b>                                                                                                                                                                                                                                                                                       |
|--------------------------------|-------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#"><u>V26 (5)</u></a> | <a href="#"><u>Hazardous Material<br/>Involvement/Placard - HM5</u></a> | FARS, CRSS                            | This element indicates whether or not any hazardous cargo was released from the cargo tank or compartment.                                                                                                                                                                                              |
| <a href="#"><u>V27</u></a>     | <a href="#"><u>Bus Use</u></a>                                          | FARS, CRSS                            | This data element describes the common type of bus service this vehicle was being used for at the time of the crash or the primary use for the bus if not in service at the time of the crash.                                                                                                          |
| <a href="#"><u>V28</u></a>     | <a href="#"><u>Special Use</u></a>                                      | FARS, CRSS                            | This data element identifies if a special use is applicable to this vehicle at the time it was involved in the crash.                                                                                                                                                                                   |
| <a href="#"><u>V29</u></a>     | <a href="#"><u>Emergency Motor Vehicle<br/>Use</u></a>                  | FARS, CRSS                            | Emergency Motor Vehicle Use indicates operation of any motor vehicle that is legally authorized by a government authority to respond to emergencies with or without the use of emergency warning equipment, such as a police vehicle, fire truck, or ambulance while actually engaged in such response. |
| <a href="#"><u>V30</u></a>     | <a href="#"><u>Travel Speed</u></a>                                     | FARS, CRSS                            | This element records the speed the vehicle was traveling prior to the occurrence of the crash as reported by the investigating officer.                                                                                                                                                                 |
| <a href="#"><u>V31</u></a>     | <a href="#"><u>Underride/Override</u></a>                               | FARS Only                             | This element indicates whether an underride or override occurred during the crash involving this vehicle.                                                                                                                                                                                               |
| <a href="#"><u>V32</u></a>     | <a href="#"><u>Rollover</u></a>                                         | FARS, CRSS                            | This element identifies whether a rollover or overturn occurred during the crash involving this vehicle.                                                                                                                                                                                                |
| <a href="#"><u>V33</u></a>     | <a href="#"><u>Location of Rollover</u></a>                             | FARS, CRSS                            | This element identifies the location of the trip point or start of the vehicle's roll.                                                                                                                                                                                                                  |
| <a href="#"><u>V34 (1)</u></a> | <a href="#"><u>Areas of Impact - Initial<br/>Contact Point</u></a>      | FARS, CRSS                            | This subfield identifies the area on this vehicle that produced the first instance of injury to non-motorists or occupants of this vehicle, or that resulted in the first instance of damage to other property or to this vehicle.                                                                      |
| <a href="#"><u>V34 (2)</u></a> | <a href="#"><u>Areas of Impact - Damaged<br/>Areas</u></a>              | FARS, CRSS                            | This subfield identifies all the areas on this vehicle that were damaged in the crash as reflected in the case material.                                                                                                                                                                                |

| <b>2020<br/>Element ID</b> | <b>Element Name</b>                                              | <b>FARS, CRSS,<br/>Case Structure</b> | <b>Definition</b>                                                                                                                                                                                                                                                                                                    |
|----------------------------|------------------------------------------------------------------|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#"><u>V35</u></a> | <a href="#"><u>Extent of Damage</u></a>                          | FARS, CRSS                            | This element indicates the amount of damage sustained by this vehicle in this crash as indicated in the case material based on an operational damage scale.                                                                                                                                                          |
| <a href="#"><u>V36</u></a> | <a href="#"><u>Vehicle Removal</u></a>                           | FARS, CRSS                            | This data element describes the mode in which the vehicle left the scene of the crash.                                                                                                                                                                                                                               |
| <a href="#"><u>V37</u></a> | <a href="#"><u>Sequence of Events</u></a>                        | FARS, CRSS                            | The events in sequence related to this motor vehicle, regardless of injury and/or property damage. Code each event for this vehicle in the order in which they occur, time wise, from the police crash report narrative and diagram.                                                                                 |
| <a href="#"><u>V38</u></a> | <a href="#"><u>Most Harmful Event</u></a>                        | FARS, CRSS                            | This element identifies the event that resulted in the most severe injury or, if no injury, the greatest property damage involving this motor vehicle.                                                                                                                                                               |
| <a href="#"><u>V39</u></a> | <a href="#"><u>Fire Occurrence</u></a>                           | FARS, CRSS                            | This element identifies whether or not a fire in any way related to the crash occurred in this vehicle.                                                                                                                                                                                                              |
| <a href="#"><u>V40</u></a> | <a href="#"><u>Motor Vehicle Automated Driving System(s)</u></a> | FARS, CRSS                            | The hardware and software that are collectively capable of performing part of or all the dynamic driving task on a sustained basis. This term, Automated Driving System (ADS), is used generically to describe any system capable of level 1-5 driving automation. (SAE 2016) See <a href="#"><u>Figure 21</u></a> . |
| <a href="#"><u>V41</u></a> | <a href="#"><u>Related Factors - Vehicle Level</u></a>           | FARS, CRSS                            | This element identifies factors related to this vehicle expressed in the case material.                                                                                                                                                                                                                              |
| <a href="#"><u>V42</u></a> | <a href="#"><u>Vehicle License Plate Number</u></a>              | CRSS Only                             | This element captures the license plate number of this vehicle.                                                                                                                                                                                                                                                      |

## Driver Level Elements

| 2020<br>Element ID  | Element Name                                             | FARS, CRSS,<br>Case Structure | Definition                                                                                                                                                                  |
|---------------------|----------------------------------------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">D1</a>  | <a href="#">State Number</a>                             | FARS Only                     | This element identifies the State in which the crash occurred.                                                                                                              |
| <a href="#">D2</a>  | <a href="#">Consecutive Number</a>                       | FARS Only                     | This element identifies the unique case number assigned by the data entry system.                                                                                           |
| <a href="#">D3</a>  | <a href="#">Vehicle Number - Driver Level</a>            | Case Structure                | This element identifies the vehicle number associated with this driver.                                                                                                     |
| <a href="#">D4</a>  | <a href="#">Driver Presence</a>                          | FARS, CRSS                    | This element identifies whether or not a driver was present in this vehicle at the onset of the unstabilized situation.                                                     |
| <a href="#">D5</a>  | <a href="#">Driver's License State</a>                   | FARS, CRSS                    | This element identifies the State of issue for the license held by this driver.                                                                                             |
| <a href="#">D6</a>  | <a href="#">Driver's ZIP Code</a>                        | FARS, CRSS                    | This element identifies the ZIP Code of this driver's area of residence.                                                                                                    |
| <a href="#">D7</a>  | <a href="#">Non-CDL License Type / Status</a>            | FARS Only                     | This element identifies in two subfields the type of license held by this driver and the status of the license at the time of the crash.                                    |
| <a href="#">D8</a>  | <a href="#">Commercial Motor Vehicle License Status</a>  | FARS Only                     | This element indicates the status for a driver's Commercial Driver's License (CDL) if applicable.                                                                           |
| <a href="#">D9</a>  | <a href="#">Compliance with License Endorsements</a>     | FARS Only                     | This element indicates whether the vehicle driven at the time of the crash requires endorsement(s) on a CDL and whether this driver is complying with the CDL endorsements. |
| <a href="#">D10</a> | <a href="#">License Compliance with Class of Vehicle</a> | FARS Only                     | This element refers to the type of license possessed or not possessed by the driver for the class of vehicle being driven at the time of the crash.                         |
| <a href="#">D11</a> | <a href="#">Compliance with License Restrictions</a>     | FARS Only                     | This element identifies if a driver was compliant with restrictions on their license.                                                                                       |
| <a href="#">D12</a> | <a href="#">Driver Height</a>                            | FARS Only                     | This element identifies a driver's height.                                                                                                                                  |
| <a href="#">D13</a> | <a href="#">Driver Weight</a>                            | FARS Only                     | This element identifies a driver's weight.                                                                                                                                  |
| <a href="#">D14</a> | <a href="#">Previous Recorded Crashes</a>                | FARS Only                     | This element records any previous crashes for this driver. Count only the events occurring within 5 years <i>of</i> the crash date.                                         |

| 2020<br>Element ID      | Element Name                                                                                                                                             | FARS, CRSS,<br>Case Structure | Definition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">D15 (1)</a> | Previous Recorded Suspensions, Revocations, and Withdrawals <a href="#">Subfield 1: Previous Underage Administrative Per Se for BAC</a>                  | FARS Only                     | This subfield records any underage pre-conviction administrative license suspension, revocation, or withdrawal in the previous 5 years including those for zero-tolerance alcohol violations while driving or refusing to submit to chemical testing. This subfield is only for administrative actions associated with alcohol. These are NOT BAC CONVICTIONS. [BAC = blood alcohol concentration]                                                                                                                                                                                                                                                                                                                                                                                                      |
| <a href="#">D15 (2)</a> | Previous Recorded Suspensions, Revocations, and Withdrawals <a href="#">Subfield 2: Previous Administrative Per Se for BAC (Not Underage)</a>            | FARS Only                     | This subfield records the count of previous pre-conviction administratively imposed suspensions, revocations, or withdrawals within the previous 5 years for driving with a BAC above a specified limit or refusing to submit to chemical testing. This subfield is only for administrative actions associated with alcohol. These are NOT BAC CONVICTIONS.                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <a href="#">D15 (3)</a> | Previous Recorded Suspensions, Revocations, and Withdrawals <a href="#">Subfield 3: Previous Recorded Other Suspensions, Revocations, or Withdrawals</a> | FARS Only                     | This subfield records any previous license suspensions, revocations, or withdrawals for this driver other than Administrative action for BAC violations. This subfield would include administrative actions associated with drugged driving. Count only the events occurring within 5 years <b>of</b> the crash date. If it can be identified on the driving record, do not include in this count recorded actions resulting from non-traffic-related issues or offenses (e.g., failure to pay child support, failure to appear in court for a non-driving offense, a suspension imposed for a drug-related offense not involving the operation of a motor vehicle). Also note that “cancellation” of a CDL license is not counted here. If a driver has been DISQUALIFIED for a CDL, record this here. |
| <a href="#">D16</a>     | <a href="#">Previous DWI Convictions</a>                                                                                                                 | FARS Only                     | This element records any previous DWI convictions for this driver. Count only the events occurring within <b>5 years of</b> the crash date.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

| 2020<br>Element ID  | Element Name                                                             | FARS, CRSS,<br>Case Structure | Definition                                                                                                                                                                                                      |
|---------------------|--------------------------------------------------------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">D17</a> | <a href="#">Previous Speeding Convictions</a>                            | FARS Only                     | This element records any previous Speeding convictions for this driver. Count only the events occurring within <b>5 years of</b> the crash date.                                                                |
| <a href="#">D18</a> | <a href="#">Previous Other Moving Violation Convictions</a>              | FARS Only                     | This element records any other previous moving violations or convictions for this driver. Count only the events occurring within <b>5 years of</b> the crash date.                                              |
| <a href="#">D19</a> | <a href="#">Date of <b>Oldest</b> Crash, Suspension, Conviction</a>      | FARS Only                     | This element identifies the date of the <b>oldest</b> crash, suspension, or conviction recorded in elements D14 through D18. Count only dates of events occurring within <b>5 years of</b> the crash date.      |
| <a href="#">D20</a> | <a href="#">Date of <b>Most Recent</b> Crash, Suspension, Conviction</a> | FARS Only                     | This element identifies the date of the <b>most recent</b> crash, suspension, or conviction recorded in elements D14 through D18. Count only dates of events occurring within <b>5 years of</b> the crash date. |
| <a href="#">D21</a> | <a href="#">Violations Charged</a>                                       | FARS, CRSS                    | This element identifies all violations, citations, and infractions noted as charged to this driver in this crash, regardless of whether the driver survived the crash.                                          |
| <a href="#">D22</a> | <a href="#">Speeding Related</a>                                         | FARS, CRSS                    | This element identifies if the driver <b>was speeding and it</b> was related to the crash as identified by law enforcement.                                                                                     |
| <a href="#">D23</a> | <a href="#">Condition (Impairment) at Time of Crash</a>                  | FARS, CRSS                    | This element identifies physical impairments to this driver or non-motorist who may have contributed to the cause of the crash as identified by law enforcement.                                                |
| <a href="#">D24</a> | <a href="#">Related Factors - Driver Level</a>                           | FARS, CRSS                    | This element identifies factors related to this driver expressed in the case material.                                                                                                                          |



## Precrash Level Elements

| <b>2020<br/>Element ID</b>  | <b>Element Name</b>                                              | <b>FARS, CRSS,<br/>Case Structure</b> | <b>Definition</b>                                                                                                                                                      |
|-----------------------------|------------------------------------------------------------------|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#"><u>PC1</u></a>  | <a href="#"><u>State Number</u></a>                              | FARS Only                             | This element identifies the State in which the crash occurred.                                                                                                         |
| <a href="#"><u>PC2</u></a>  | <a href="#"><u>Consecutive Number</u></a>                        | FARS Only                             | This element identifies the unique case number assigned by the data entry system.                                                                                      |
| <a href="#"><u>PC3</u></a>  | <a href="#"><u>Vehicle Number - Precrash Level</u></a>           | Case Structure                        | This element identifies the number assigned to this vehicle in the crash.                                                                                              |
| <a href="#"><u>PC4</u></a>  | <a href="#"><u>Contributing Circumstances, Motor Vehicle</u></a> | FARS, CRSS                            | This element describes the possible pre-existing motor vehicle defects or maintenance conditions that may have contributed to the crash.                               |
| <a href="#"><u>PC5</u></a>  | <a href="#"><u>Trafficway Description</u></a>                    | FARS, CRSS                            | This element identifies the value indicated in the case material that best describes the trafficway flow just prior to this vehicle's critical precrash event.         |
| <a href="#"><u>PC6</u></a>  | <a href="#"><u>Total Lanes in Roadway</u></a>                    | FARS, CRSS                            | This element identifies the value indicated in the case material that best describes the number of roadway lanes just prior to this vehicle's critical precrash event. |
| <a href="#"><u>PC7</u></a>  | <a href="#"><u>Speed Limit</u></a>                               | FARS, CRSS                            | This element identifies the value indicated in the case material that best represents the speed limit just prior to this vehicle's critical precrash event.            |
| <a href="#"><u>PC8</u></a>  | <a href="#"><u>Roadway Alignment</u></a>                         | FARS, CRSS                            | This element identifies the value indicated in the case material that best represents the roadway alignment prior to this vehicle's critical precrash event.           |
| <a href="#"><u>PC9</u></a>  | <a href="#"><u>Roadway Grade</u></a>                             | FARS, CRSS                            | This element identifies the value indicated in the case material that best represents the roadway grade prior to this vehicle's critical precrash event.               |
| <a href="#"><u>PC10</u></a> | <a href="#"><u>Roadway Surface Type</u></a>                      | FARS Only                             | This element identifies the value indicated in the case material that best represents the roadway surface type prior to this vehicle's critical precrash event.        |
| <a href="#"><u>PC11</u></a> | <a href="#"><u>Roadway Surface Conditions</u></a>                | FARS, CRSS                            | This element identifies the value indicated in the case material that best represents the roadway surface condition prior to this vehicle's critical precrash event.   |

| 2020<br>Element ID   | Element Name                                                                | FARS, CRSS,<br>Case Structure | Definition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------|-----------------------------------------------------------------------------|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">PC12</a> | <a href="#">Traffic Control Device</a>                                      | FARS, CRSS                    | This element identifies the <b>sign or signal</b> indicated in the case material that best describes the traffic controls in the vehicle's environment just prior to this vehicle's critical precrash event.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <a href="#">PC13</a> | <a href="#">Device Functioning</a>                                          | FARS, CRSS                    | This element identifies the functionality of the traffic control device recorded for this vehicle in the element Traffic Control Device.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <a href="#">PC14</a> | <a href="#">Driver's Vision Obscured By</a>                                 | FARS, CRSS                    | This data element records impediments to a driver's visual field that were noted in the case material.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <a href="#">PC15</a> | <a href="#">Driver Maneuvered to Avoid</a>                                  | FARS, CRSS                    | This data element identifies the thing(s) the driver attempted to avoid while the vehicle was on the road portion of the trafficway, just prior to the First Harmful Event for this vehicle.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <a href="#">PC16</a> | <a href="#">Driver Distracted By</a>                                        | FARS, CRSS                    | This element identifies the attribute(s) that best describe this driver's attention to driving prior to the driver's realization of an impending critical event or just prior to impact if realization of an impending critical event does not occur. This element reports on the presence of any distractions that may or may not have contributed to the crash. Distraction from the primary task of driving occurs when drivers divert their attention from the driving task to some other activity. Also, driving while daydreaming or lost in thought is identified as distracted driving by NHTSA. Physical conditions/ impairments (fatigue, alcohol, medical condition, etc.) or psychological states (anger, emotional, depressed, etc.) are not identified as distractions by NHTSA. |
| <a href="#">PC17</a> | <a href="#">Pre-Event Movement (Prior to Recognition of Critical Event)</a> | FARS, CRSS                    | This element identifies the attribute that best describes this vehicle's activity prior to the driver's realization of an impending critical event or just prior to impact if the driver took no action or had no time to attempt any evasive maneuvers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <a href="#">PC18</a> | <a href="#">Critical Event - Precrash (Category)</a>                        | FARS, CRSS                    | This element identifies the category of the event that was critical to this vehicle being involved in the crash.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

| 2020<br>Element ID   | Element Name                                      | FARS, CRSS,<br>Case Structure | Definition                                                                                                                                                          |
|----------------------|---------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">PC19</a> | <a href="#">Critical Event - Precrash (Event)</a> | FARS, CRSS                    | This element identifies the critical event that made the crash imminent (i.e., something occurred that made the collision possible).                                |
| <a href="#">PC20</a> | <a href="#">Attempted Avoidance Maneuver</a>      | FARS, CRSS                    | This element identifies movements/actions taken by the driver, within a critical crash envelope, in response to a <a href="#">CRITICAL PRECRASH EVENT</a> .         |
| <a href="#">PC21</a> | <a href="#">Pre-Impact Stability</a>              | FARS, CRSS                    | This element assesses the stability of the vehicle <b>after</b> the critical event, but <b>before</b> the impact.                                                   |
| <a href="#">PC22</a> | <a href="#">Pre-Impact Location</a>               | FARS, CRSS                    | This element assesses the location of the vehicle after the critical event, but before the First Harmful Event for this vehicle.                                    |
| <a href="#">PC23</a> | <a href="#">Crash Type</a>                        | FARS, CRSS                    | This element describes the type of crash this in-transport vehicle was involved in based on the <a href="#">FIRST HARMFUL EVENT</a> and the precrash circumstances. |

### Person (Motor Vehicle Occupant) Level Elements

| 2020<br>Element ID | Element Name                                  | FARS, CRSS,<br>Case Structure | Definition                                                                                                          |
|--------------------|-----------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------|
| <a href="#">P1</a> | <a href="#">State Number</a>                  | FARS Only                     | This element identifies the State in which the crash occurred.                                                      |
| <a href="#">P2</a> | <a href="#">Consecutive Number</a>            | FARS Only                     | This element identifies the unique case number assigned by the data entry system.                                   |
| <a href="#">P3</a> | <a href="#">Vehicle Number - Person Level</a> | Case Structure                | This element identifies the vehicle number associated with this motor vehicle occupant.                             |
| <a href="#">P4</a> | <a href="#">Person Number</a>                 | Case Structure                | This element identifies a number for the motor vehicle occupant in consecutive order for the vehicle they occupied. |
| <a href="#">P5</a> | <a href="#">Age</a>                           | FARS, CRSS                    | This element identifies the person's age, in years, with respect to the person's last birthday.                     |
| <a href="#">P6</a> | <a href="#">Sex</a>                           | FARS, CRSS                    | This element identifies the sex of the person involved in the crash.                                                |
| <a href="#">P7</a> | <a href="#">Person Type</a>                   | FARS, CRSS                    | This element describes the role of this person involved in the crash.                                               |

| 2020<br>Element ID      | Element Name                                                | FARS, CRSS,<br>Case Structure | Definition                                                                                                                                                                                   |
|-------------------------|-------------------------------------------------------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">P8</a>      | <a href="#">Injury Severity</a>                             | FARS, CRSS                    | This element describes the severity of the injury to this person in the crash.                                                                                                               |
| <a href="#">P9</a>      | <a href="#">Seating Position</a>                            | FARS, CRSS                    | This element identifies the location of this person in or on the vehicle.                                                                                                                    |
| <a href="#">P10</a>     | <a href="#">Restraint System Use</a>                        | FARS, CRSS                    | This element records the restraint equipment in use by the occupant and any indication of mis-use of the available restraint system, at the time of the crash.                               |
| <a href="#">P11</a>     | <a href="#">Helmet Use</a>                                  | FARS, CRSS                    | This element records the helmet use, and any indications of mis-use of the helmet, by motor vehicle occupants of <a href="#">NCSA BODY TYPES</a> 80-91, 96, and 97 at the time of the crash. |
| <a href="#">P12</a>     | <a href="#">Air Bag Deployed</a>                            | FARS, CRSS                    | This element is used to record air bag deployment for this person as reported in the case material.                                                                                          |
| <a href="#">P13</a>     | <a href="#">Ejection</a>                                    | FARS, CRSS                    | This element describes the ejection status and degree of ejection for this person, excluding motorcycle occupants.                                                                           |
| <a href="#">P14</a>     | <a href="#">Ejection Path</a>                               | FARS Only                     | This element identifies the path by which this person was ejected from the vehicle.                                                                                                          |
| <a href="#">P15</a>     | <a href="#">Extrication</a>                                 | FARS Only                     | This element identifies if <b>equipment was</b> used to remove this person from the vehicle.                                                                                                 |
| <a href="#">P16</a>     | <a href="#">Police Reported Alcohol Involvement</a>         | FARS, CRSS                    | This data element reflects only the <b>judgment of law enforcement</b> as to whether alcohol was involved or not for this person.                                                            |
| <a href="#">P17</a>     | <a href="#">Method of Alcohol Determination (By Police)</a> | FARS Only                     | This element describes the method by which the police made the determination as to whether alcohol was involved or not for this person.                                                      |
| <a href="#">P18 (1)</a> | <a href="#">Alcohol Test Status</a>                         | FARS, CRSS                    | This element identifies if an alcohol (ethanol) test was given to this person.                                                                                                               |
| <a href="#">P18 (2)</a> | <a href="#">Alcohol Test Type</a>                           | FARS, CRSS                    | This element identifies the type of the alcohol (ethanol) test that was used for this person.                                                                                                |
| <a href="#">P18 (3)</a> | <a href="#">Alcohol Test Result</a>                         | FARS, CRSS                    | This element identifies the alcohol (ethanol) test result for this person.                                                                                                                   |

| 2020<br>Element ID      | Element Name                                                 | FARS, CRSS,<br>Case Structure | Definition                                                                                                                                                                                                                                            |
|-------------------------|--------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">P19</a>     | <a href="#">Police Reported Drug Involvement</a>             | FARS, CRSS                    | This data element reflects only the <b>judgment of law enforcement</b> as to whether drugs were involved or not for this person.                                                                                                                      |
| <a href="#">P20</a>     | <a href="#">Method of Drug Determination (By Police)</a>     | FARS Only                     | This element identifies the method by which the police made the determination as to whether drugs were involved or not for this person.                                                                                                               |
| <a href="#">P21 (1)</a> | <a href="#">Drug Test Status</a>                             | FARS Only                     | This element identifies if a chemical test for the presence of drugs was given to this person.                                                                                                                                                        |
| <a href="#">P21 (2)</a> | <a href="#">Drug Specimen</a>                                | FARS Only                     | This element identifies the bodily tissue or fluid used to perform a chemical test for the presence of drugs in this person.                                                                                                                          |
| <a href="#">P21 (3)</a> | <a href="#">Drug Test Result</a>                             | FARS Only                     | This element records the result of a chemical test for the presence of drugs in this person.                                                                                                                                                          |
| <a href="#">P22</a>     | <a href="#">Transported to First Medical Facility By</a>     | FARS, CRSS                    | This element identifies the method of transportation this person was provided to receive treatment at the first hospital or medical facility.                                                                                                         |
| <a href="#">P23</a>     | <a href="#">Died at Scene/En route</a>                       | FARS Only                     | This element identifies if this person died at the scene of the crash or en route to a hospital or treatment facility.                                                                                                                                |
| <a href="#">P24</a>     | <a href="#">Death Date</a>                                   | FARS Only                     | This element records the month, day, and year of this person's death.                                                                                                                                                                                 |
| <a href="#">P25</a>     | <a href="#">Death Time</a>                                   | FARS Only                     | This element identifies the hour and minute of this person's death using the 24-hour clock format.                                                                                                                                                    |
| <a href="#">P26</a>     | <a href="#">Related Factors - Person (MV Occupant) Level</a> | FARS, CRSS                    | This element identifies factors related to motor vehicle occupants other than drivers expressed in the case material.                                                                                                                                 |
| <a href="#">SP1</a>     | <a href="#">Death Certificate Number</a>                     | FARS Only                     | This element identifies the four-digit GSA code for the city where the death occurred, the two-digit State number and the six-digit sequence number from the death certificate as assigned by the State Vital Statistics or Vital Records Department. |
| <a href="#">SP2</a>     | <a href="#">Fatal Injury at Work</a>                         | FARS Only                     | This element indicates if the death certificate identified this person as being "at work" at the time of the crash.                                                                                                                                   |

| 2020<br>Element ID  | Element Name                         | FARS, CRSS,<br>Case Structure | Definition                                                                                     |
|---------------------|--------------------------------------|-------------------------------|------------------------------------------------------------------------------------------------|
| <a href="#">SP3</a> | <a href="#">Race/Hispanic Origin</a> | FARS Only                     | This element indicates the race and Hispanic origin of this person from the death certificate. |

### Person (Not A Motor Vehicle Occupant) Level Elements

| 2020<br>Element ID  | Element Name                                                                           | FARS, CRSS,<br>Case Structure | Definition                                                                                                           |
|---------------------|----------------------------------------------------------------------------------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------|
| <a href="#">NM1</a> | <a href="#">State Number</a>                                                           | FARS Only                     | This element identifies the State in which the crash occurred.                                                       |
| <a href="#">NM2</a> | <a href="#">Consecutive Number</a>                                                     | FARS Only                     | This element identifies the unique case number assigned by the data entry system.                                    |
| <a href="#">NM3</a> | <a href="#">Person Number</a>                                                          | Case Structure                | This element identifies a number for people that are not in a motor vehicle in consecutive order.                    |
| <a href="#">NM4</a> | <a href="#">Vehicle Number of Motor Vehicle Striking Non-Motorist</a>                  | FARS, CRSS                    | This data element captures the in-transport vehicle that made contact with this non-motorist.                        |
| <a href="#">NM5</a> | <a href="#">Age</a>                                                                    | FARS, CRSS                    | This element identifies the person's age, in years, with respect to the person's last birthday.                      |
| <a href="#">NM6</a> | <a href="#">Sex</a>                                                                    | FARS, CRSS                    | This element identifies the sex of the person involved in the crash                                                  |
| <a href="#">NM7</a> | <a href="#">Person Type</a>                                                            | FARS, CRSS                    | This element describes the role of this person involved in the crash.                                                |
| <a href="#">NM8</a> | <a href="#">Injury Severity</a>                                                        | FARS, CRSS                    | This element describes the severity of the injury to this person in the crash.                                       |
| <a href="#">NM9</a> | <a href="#">Pedestrian/Bike Typing</a>                                                 | FARS, CRSS                    | This element describes the precrash actions leading to crashes between motor vehicles and pedestrians or bicyclists. |
| NM9 - PB27          | Marked Crosswalk Present - Pedestrian (See the companion Pedestrian/ Bicyclist Manual) | FARS, CRSS                    | This element identifies if a marked crosswalk was present at the crash site.                                         |
| NM9 - PB27          | Marked Crosswalk Present - Bicyclist (See the companion Pedestrian/Bicyclist Manual)   | FARS, CRSS                    | This element identifies if a marked crosswalk was present at the crash site.                                         |
| NM9 - PB28          | Sidewalk Present - Pedestrian (See the companion Pedestrian/ Bicyclist Manual)         | FARS, CRSS                    | This element identifies if a sidewalk was present at the crash site.                                                 |

| <b>2020<br/>Element ID</b> | <b>Element Name</b>                                                                | <b>FARS, CRSS,<br/>Case Structure</b> | <b>Definition</b>                                                                                                                  |
|----------------------------|------------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| NM9 - PB28                 | Sidewalk Present - Bicyclist<br>(See the companion<br>Pedestrian/Bicyclist Manual) | FARS, CRSS                            | This element identifies if a sidewalk was present at the crash site.                                                               |
| NM9 - PB29                 | School Zone - Pedestrian<br>(See the companion<br>Pedestrian/Bicyclist Manual)     | FARS, CRSS                            | This element identifies if the crash occurred in a school zone.                                                                    |
| NM9 - PB29                 | School Zone - Bicyclist (See the companion Pedestrian/<br>Bicyclist Manual)        | FARS, CRSS                            | This element identifies if the crash occurred in a school zone.                                                                    |
| NM9 - PB30                 | Crash Type - Pedestrian (See the companion Pedestrian/<br>Bicyclist Manual)        | FARS, CRSS                            | This element summarizes the circumstances of the crash for this pedestrian.                                                        |
| NM9 - PB30B                | Crash Type - Bicyclist (See the companion Pedestrian/<br>Bicyclist Manual)         | FARS, CRSS                            | This element summarizes the circumstances of the crash for this bicyclist.                                                         |
| NM9 - PB31                 | Crash Location - Pedestrian<br>(See the companion<br>Pedestrian/Bicyclist Manual)  | FARS, CRSS                            | This element summarizes the circumstances of the crash for this pedestrian.                                                        |
| NM9 - PB31B                | Crash Location - Bicyclist<br>(See the companion<br>Pedestrian/Bicyclist Manual)   | FARS, CRSS                            | This element identifies if the crash location with respect to an intersection.                                                     |
| NM9 - PB32                 | Pedestrian Position (See the companion Pedestrian/<br>Bicyclist Manual)            | FARS, CRSS                            | This element identifies the location of the pedestrian with respect to the trafficway when contacted.                              |
| NM9 - PB32B                | Bicyclist Position (See the companion Pedestrian/<br>Bicyclist Manual)             | FARS, CRSS                            | This element identifies the location of the bicyclist with respect to the trafficway when contacted.                               |
| NM9 - PB33                 | Pedestrian Initial Direction<br>(See the companion<br>Pedestrian/Bicyclist Manual) | FARS, CRSS                            | This element identifies the compass direction of travel of the pedestrian prior to being contacted.                                |
| NM9 - PB33B                | Bicyclist Direction (See the companion Pedestrian/<br>Bicyclist Manual)            | FARS, CRSS                            | This element identifies the travel direction of the bicyclist with respect to the flow of traffic prior to being contacted.        |
| NM9 - PB34                 | Motorist Initial Direction<br>(See the companion<br>Pedestrian/ Bicyclist Manual)  | FARS, CRSS                            | This element identifies the compass direction of travel of the motorist prior to being involved in the crash.                      |
| NM9 - PB35                 | Motorist Maneuver (See the companion Pedestrian/<br>Bicyclist Manual)              | FARS, CRSS                            | This element identifies if the motorist was engaged in a turning maneuver at an intersection prior to being involved in the crash. |

| <b>2020<br/>Element ID</b> | <b>Element Name</b>                                                      | <b>FARS, CRSS,<br/>Case Structure</b> | <b>Definition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------|--------------------------------------------------------------------------|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NM9 - PB36                 | Intersection Leg (See the companion Pedestrian/Bicyclist Manual)         | FARS, CRSS                            | This element identifies on which leg of an intersection the crash occurred.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| NM9 - PB37                 | Pedestrian Scenario (See the companion Pedestrian/Bicyclist Manual)      | FARS, CRSS                            | This element summarizes the movements of the pedestrian and motorist in an intersection area.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| NM9 - PB38                 | Crash Group - Pedestrian (See the companion Pedestrian/Bicyclist Manual) | FARS, CRSS                            | This element provides general groupings of the more specific individual Crash Types - Pedestrian.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| NM9 - PB38B                | Crash Group - Bicyclist (See the companion Pedestrian/Bicyclist Manual)  | FARS, CRSS                            | This element provides general groupings of the more specific individual Crash Types - Bicyclist.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <a href="#">NM10</a>       | <a href="#">Non-Motorist Location at Time of Crash</a>                   | FARS, CRSS                            | This element identifies the location of the non-motorist with respect to the roadway at the time of the crash.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <a href="#">NM11</a>       | <a href="#">Non-Motorist Action/ Circumstances</a>                       | FARS, CRSS                            | This element describes the action(s) of the non-motorist at the time of their involvement in the crash.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <a href="#">NM12</a>       | <a href="#">Non-Motorist Contributing Circumstances</a>                  | FARS, CRSS                            | This element describes the action(s) and/or circumstances of the non-motorist that law enforcement indicated may have contributed to the crash.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <a href="#">NM13</a>       | <a href="#">Non-Motorist Distracted By</a>                               | FARS, CRSS                            | This element identifies the attribute(s) that best describe this non-motorist's attention prior to the non-motorist's involvement in this crash. This element reports on the presence of any distractions that may or may not have contributed to the crash. Distraction, for a non-motorist, occurs when a non-motorist's attention is diverted from the task of navigating in public to some other activity. Also, daydreaming or lost in thought are identified as distractions by NHTSA. Physical conditions/ impairments (fatigue, alcohol, medical condition, etc.) or psychological states (anger, emotional, depressed, etc.) are not identified as distractions by NHTSA. |
| <a href="#">NM14</a>       | <a href="#">Non-Motorist Safety Equipment</a>                            | FARS, CRSS                            | This element identifies the safety equipment that was used and not used by this non-motorist as reflected in the case material.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |



| 2020<br>Element ID       | Element Name                                                | FARS, CRSS,<br>Case Structure | Definition                                                                                                                                    |
|--------------------------|-------------------------------------------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">NM15</a>     | <a href="#">Condition (Impairment) at Time of Crash</a>     | FARS, CRSS                    | This element attempts to identify any physical impairment to this non-motorist that may have contributed to the cause of the crash.           |
| <a href="#">NM16</a>     | <a href="#">Police Reported Alcohol Involvement</a>         | FARS, CRSS                    | This data element reflects only the <b>judgment of law enforcement</b> as to whether alcohol was involved or not for this person.             |
| <a href="#">NM17</a>     | <a href="#">Method of Alcohol Determination (By Police)</a> | FARS Only                     | This element describes the method by which the police made the determination as to whether alcohol was involved or not for this person.       |
| <a href="#">NM18 (1)</a> | <a href="#">Alcohol Test Status</a>                         | FARS, CRSS                    | This element identifies if an alcohol (ethanol) test was given to this person.                                                                |
| <a href="#">NM18 (2)</a> | <a href="#">Alcohol Test Type</a>                           | FARS, CRSS                    | This element identifies the type of the alcohol (ethanol) test that was used for this person.                                                 |
| <a href="#">NM18 (3)</a> | <a href="#">Alcohol Test Result</a>                         | FARS, CRSS                    | This element identifies the alcohol (ethanol) test result for this person.                                                                    |
| <a href="#">NM19</a>     | <a href="#">Police Reported Drug Involvement</a>            | FARS, CRSS                    | This data element reflects only the <b>judgment of law enforcement</b> as to whether drugs were involved or not for this person.              |
| <a href="#">NM20</a>     | <a href="#">Method of Drug Determination (By Police)</a>    | FARS Only                     | This element identifies the method by which the police made the determination as to whether drugs were involved or not for this person.       |
| <a href="#">NM21 (1)</a> | <a href="#">Drug Test Status</a>                            | FARS Only                     | This element identifies if a chemical test for the presence of drugs was given to this person.                                                |
| <a href="#">NM21 (2)</a> | <a href="#">Drug Specimen</a>                               | FARS Only                     | This element identifies the bodily tissue or fluid used to perform a chemical test for the presence of drugs in this person.                  |
| <a href="#">NM21 (3)</a> | <a href="#">Drug Test Result</a>                            | FARS Only                     | This element records the result of a chemical test for the presence of drugs in this person.                                                  |
| <a href="#">NM22</a>     | <a href="#">Transported to First Medical Facility By</a>    | FARS, CRSS                    | This element identifies the method of transportation this person was provided to receive treatment at the first hospital or medical facility. |

| <b>2020<br/>Element ID</b>  | <b>Element Name</b>                                                       | <b>FARS, CRSS,<br/>Case Structure</b> | <b>Definition</b>                                                                                                                                                                                                                                     |
|-----------------------------|---------------------------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#"><u>NM23</u></a> | <a href="#"><u>Died at Scene/En route</u></a>                             | FARS Only                             | This element identifies if this person died at the scene of the crash or en route to a hospital or treatment facility.                                                                                                                                |
| <a href="#"><u>NM24</u></a> | <a href="#"><u>Death Date</u></a>                                         | FARS Only                             | This element records the month, day, and year of this person's death.                                                                                                                                                                                 |
| <a href="#"><u>NM25</u></a> | <a href="#"><u>Death Time</u></a>                                         | FARS Only                             | This element identifies the hour and minute of this person's death using the 24-hour clock format.                                                                                                                                                    |
| <a href="#"><u>NM26</u></a> | <a href="#"><u>Related Factors - Person (Not a MV Occupant) Level</u></a> | FARS, CRSS                            | This element identifies factors related to people not in a motor vehicle expressed in the case material.                                                                                                                                              |
| <a href="#"><u>SP1</u></a>  | <a href="#"><u>Death Certificate Number</u></a>                           | FARS Only                             | This element identifies the four-digit GSA code for the city where the death occurred, the two-digit State number and the six-digit sequence number from the death certificate as assigned by the State Vital Statistics or Vital Records Department. |
| <a href="#"><u>SP2</u></a>  | <a href="#"><u>Fatal Injury at Work</u></a>                               | FARS Only                             | This element indicates if the death certificate identified this person as being "at work" at the time of the crash.                                                                                                                                   |
| <a href="#"><u>SP3</u></a>  | <a href="#"><u>Race/Hispanic Origin</u></a>                               | FARS Only                             | This element indicates the race and Hispanic origin of this person from the death certificate.                                                                                                                                                        |

## 100. FARS Submission Instructions

### 101. How to Submit

Each case must have at least one Person Level form with [INJURY SEVERITY](#) attribute Fatal Injury.

#### **2020 Data**

Enter data directly using procedures described in the FARS **Records-Based Information Solution** Manual (**RBIS** Manual).

### 102. When to Submit

Make submissions at any time during the week via the **RBIS**.

### 103. Data Sources

1. Use the [ANSI D16.1 Manual on Classification of Motor Vehicle Traffic Crashes](#) for definitions in coding the FARS forms.
2. Obtain information from death certificates for people who die as a result of injuries sustained in a motor vehicle crash.
3. Use the State Driver Licensing Files, Vehicle Registration Files, Highway Department Files, Crash Reports, and Vital Statistics Reports.
4. See the FARS **RBIS** manual for instructions on obtaining data and responding to requests for data on vehicles and drivers not registered or licensed in your State.
5. The message system should be used to obtain data on involved Out-of-State drivers and vehicles.
6. Hierarchy for Case material:
  - a. An Early Notification Report can get corrected/replaced/clarified by
  - b. A police crash report can get corrected/replaced/clarified by
  - c. A Supplemental police crash report can get corrected/replaced/clarified by
  - d. A Reconstruction Report
7. Hierarchy for police reported information on the police crash report:
  - a. If information provided in the narrative directly contradicts a coded box, the narrative detail takes precedence over the checkbox.
8. When coding elements: Statements by witnesses in narratives, including those from vehicle passengers or pedestrians, may be used to provide information when police sources are unavailable. The officer's assessment on the police crash report will take precedence over items reported by witnesses in all cases. The officer's assessment includes any statements from a witness included by the officer as part of the police crash report narrative. In absence of clarification by the officer in the police crash report, information that is contradictory from witness statements should not be used.

9. The use of satellite imagery products (GOOGLE Earth, Bing Maps, etc.) shall be limited to verifying or clarifying information already contained in the source materials used to code the FARS case. Satellite imagery products shall not be used to create new data (e.g., Grade not available on crash report; Google street level should not be used to determine grade) or add to information not otherwise available in the original case material (e.g., case material indicate traffic signal, but do not report if pedestrian signal available; do not use satellite imagery tools to determine presence of a pedestrian signal). Imagery included in a State's official video log of Roadway Inventory or in their Linear Reference System is acceptable for coding the FARS case.

## 200. Coding Instructions

### 201. General Instructions

#### 201.1 Codes

201.1.1 All codes are numeric except [Trafficway Identifier](#), [Additional State Information](#), [Rail Grade Crossing Identifier](#), [Vehicle Identification Number](#), [Trailer Vehicle Identification Number](#), and [Motor Carrier Identification Number](#).

201.1.2 The code for attribute **Unknown** is always *a variation of 9 (e.g., 9, 99, 9999)*. **Unknown** should only be used when all sources for obtaining information on an element have been searched and the information is missing or stated unknown. In an element that includes the attribute **Not Reported**, **Unknown** is only used for stated unknowns.

201.1.3 The code for attribute **Not Applicable** or its equivalent is always zero(s), except for data elements C29-C31 where **Not Applicable (Not Notified)** is 8888, **P10 where None Used/Not Applicable is (1) 20 and (2) 7**, **P11 where (1) Not Applicable is 20 and (2) None Used/Not Applicable is 7**, P13 where **Not Applicable** is 8, P24/NM24 where **Not Applicable (non-fatal)** is 88888888, P25/NM25 where **Not Applicable (non-fatal)** is 8888, and SP2 where **Not Applicable (not a fatality)** is 8.

201.1.4 The code for attribute **None** is always zero except for [Alcohol Test Result](#), [Motor Carrier Identification Number](#), [Restraint System Use](#), [Helmet Use](#), and [Non-Motorist Safety Equipment](#).

#### 201.2 Coding Blanks

201.2.1 Blanks are used only in fields to be later updated with four exceptions:

201.2.1.1 If [Driver Presence](#) is coded “0” or “9” all other driver information except [Related Factors-Driver Level](#) must be blank.

201.2.1.2 If [VIN](#) is less than seventeen characters, *see the guidance in [VIN](#)*.

201.2.1.3 If [Trafficway Identifier](#) is less than 30 characters, do not zero-fill or 9-fill. Leave remaining characters blank. The second **Trafficway Identifier** field is also left blank for non-junction crashes.

201.2.1.4 If [Motor Carrier Identification Number](#) is less than 9 characters, do not zero-fill or 9-fill. Leave remaining characters blank.

201.2.2 All codes are right-justified except [VIN](#), [Trailer VIN](#), [Trafficway Identifier](#) and [Motor Carrier Identification Number](#).

#### 201.3 Vehicle, Driver, Precrash, and both Person Levels

201.3.1 Vehicles are numbered consecutively beginning with “001.”

201.3.2 For each vehicle, people are numbered consecutively beginning with “001.” Order is not important. The driver does not have to be “001.”

201.3.3 People not in motor vehicles are numbered consecutively beginning with “01.” Order is not important.

#### 201.4 Miscellaneous

201.4.1 The number of changes per case is not limited.

201.4.2 Request of other States for information should always follow the format of the **RBIS** Out-Of-State Data Request whether the **RBIS** itself or the mail is used.

201.4.3 Refer all coding questions through the CDAN Helpdesk. *See the [Coding Guide: How to Create a Coding Question Ticket in the CDAN Helpdesk](#) for helpful information.*

201.4.4 Copies of all cases or other actions submitted must be retained for 3 years after the data collection year.

201.4.5 If a State will not allow transmittal of complete [VIN](#), send a memorandum to the **CDAN Helpdesk** informing **HQ** of this fact.

201.5 **Special Case, FARS ONLY - Coding Fatal Traffic Crashes for which there is only a death certificate.**

201.5.1 Be sure the death occurred within thirty (30) days (**720 hours**) of the crash. If you don't know, do not submit the case. If it occurred after 30 days (**720 hours**), do not submit.

201.6 **Code the required elements as follows:**

The following elements must be coded. If any of these elements are left blank or if an edit check is violated that involves the coding of one of these elements, you will not have a usable FARS **or CRSS** case.

#### **Crash Level**

[Crash Date](#) - Appropriate Day, Month, and Year

[Crash Time](#) - Appropriate hour and minute if known, 9999 if not known

[Number of Forms Submitted for Persons Not in Motor Vehicles](#) - 00-99

[Number of Vehicle Forms Submitted](#) - 001-999

[Number of Motor Vehicle Occupant Forms Submitted](#) - 000-999

[Crash Events](#) - Table completed in **RBIS**

[First Harmful Event](#) - Appropriate attribute derived from table, 99 if **reported as unknown**

#### **Vehicle Level**

[Vehicle Number](#) - 001-999

[Number of Occupants](#) - 01-98 if known, 99 if unknown

[Unit Type](#) - 1-4

### Driver Level

Vehicle Number - 001-999

Driver Presence - Appropriate attribute if known, 9 if unknown

### Precrash Form

Vehicle Number - 001-999

Crash Type - 01-99

### Person Level (Motor Vehicle Occupant)

Vehicle Number - 001-999

Person Number - 001-999

Person Type - 01-03, 09 for occupants

### Person Level (Not a Motor Vehicle Occupant)

Person Number - 001-999

Vehicle Number of Motor Vehicle Striking Non-Motorist - 001-999

Person Type - 04-07, 10-13, 19 for non-occupants

201.6.1 Code all other elements with the proper attribute if information is known. If no information is known, code the items **Unknown** or **Not Reported as appropriate**. *The following eight exceptions should all use code 0 (zero) as appropriate for the situation:*

- SCHOOL BUS RELATED;
- RAIL GRADE CROSSING IDENTIFIER;
- HIT-AND-RUN;
- JACKKNIFE;
- ROLLOVER;
- EMERGENCY MOTOR VEHICLE USE;
- FIRE OCCURRENCE; and
- CONTRIBUTING CIRCUMSTANCES, MOTOR VEHICLE.

## **202. Deletion Instructions**

See FARS *Records-Based Information Solution (RBIS)* Manual for instructions on how to delete a case.

## **203. How to Structure a Case**

When creating an **RBIS** case structure, it is important to understand and correctly enter the proper number of Persons Not in Motor Vehicles, Vehicles, and Motor Vehicle Occupants. This initial structuring of the case is important for dependent data elements once your case is created. The following instructions are intended to assist in the proper structuring of your case.

### **Step 1: Number of Persons Not in Motor Vehicles**

Enter the number of people involved in this crash who are not in motor vehicles. This includes:

- Occupants of Non-Motor Vehicle Transport Devices (i.e., people riding in an animal-drawn conveyance, on an animal, or injured occupants of a railway train or a road vehicle on rails)
- Pedestrians
- Bicyclists
- Other Cyclists
- People on Personal Conveyances (motorized and non-motorized)
- People In/On Buildings
- Unknown Types of Non-Motorists

For detailed explanations and examples of each, please see [PERSON TYPE](#).

#### **Important things to consider:**

- Do not include non-contact people. For example, if the case material identifies three pedestrians and only one of them was contacted by a vehicle or something set into motion by a vehicle, you do not include the two who were not contacted.
- Do not include witnesses or other people not directly involved in the crash.
- Do not include uninjured occupants of railway trains or road vehicles on rails.

### **Step 2: Number of Vehicles (in-transport, parked/stopped off roadway)**

Enter the number of vehicles involved in this crash. This includes:

- Motor Vehicles In-Transport (Inside or Outside the Trafficway)
- Motor Vehicles Not In-Transport Within the Trafficway
- Motor Vehicles Not In-Transport Outside the Trafficway
- Working Motor Vehicles (Highway Construction, Maintenance, Utility Only)

For detailed explanations and examples of each, please see [UNIT TYPE](#).

#### **Important things to consider:**

- You must have at least one motor vehicle “In-Transport” involved in the crash to be considered a FARS or CRSS case.
- ***For a Not In-Transport Motor Vehicle (Parked or Working) to be included in the case, it must be involved in a harmful event with a Motor Vehicle In-Transport.***
- Do not include Phantom or Non-Contact Vehicles (i.e., a vehicle that did not directly contact another vehicle and has no harmful event in the crash).
- It is possible to have a case where one vehicle sets something into motion, and then the thing set into motion hits another vehicle. In this case, even though the two vehicles



never made direct contact with each other, both vehicles would be considered contact vehicles and should be entered because they both had harmful events. For more information about set in motion cases, please see [RELATED FACTORS - CRASH LEVEL](#), and [AREAS OF IMPACT](#).

- A vehicle that sets something into motion, striking a person or property and causes injury or damage, is a contact vehicle and should be included in this count.

### **Step 3: Number of Person Forms for a Vehicle**

Enter the number of occupants in the vehicle. An occupant is any person who is part of a motor vehicle (i.e., in it, on it, or attached to it).

For special handling of uninjured occupants for which there is NO Person Level data in the case material, see [Created Records](#) below.

There are three special rules for counting occupants when structuring a case:

- **Buses:** For vehicle [NCSA BODY TYPES 50-52, 55, 58, and 59](#) you will enter ONLY the Driver (regardless of injury) and injured passengers when you are structuring the case. Do not include uninjured passengers. The total [number of occupants](#) (including uninjured occupants) will be added later on the Vehicle Form once your case has been created.
- **Unknown:** If the actual number of motor vehicle occupants is unknown, include the driver, if there is one, plus all other known occupants in the count (even if there is no information in the case material).
- **Uninjured Passengers with no information in the case material:** See [Created Records](#) below.

### **Important things to consider:**

People ejected or who fall from a motor vehicle in-transport are still considered occupants of that vehicle for the duration of the unstabilized situation.

### **Step 4: Injury Severity**

Enter the injury severity for each of the Person Forms you entered in Steps 1 and 3. For detailed explanations and examples, please see [INJURY SEVERITY](#).

### **Created Records**

A Created Record is generated when the total [number of occupants](#) (entered on the Vehicle form) is greater than *the [Number of Person Forms](#) entered when structuring the case* and the *NCSA BODY TYPE is not a bus (BODY TYPES 50, 51, 52, 55, 58, or 59 [large buses])*.

*This is intended to streamline data entry and only applies when information is not available for some or all uninjured passengers, as is the case in some States that do not require information to be collected for uninjured passengers. In these situations, the system automatically generates a created person record with a set of standard values.*

If there are uninjured passengers of an in-transport motor vehicle (other than *NCSA BODY TYPES 50, 51, 52, 55, 58 or 59 [large buses]*), the *RBIS* will automatically populate all of the data elements on the “Created” Person Level (MV Occupant) Form generated by *RBIS*. Because

this is a shortcut to auto-fill data, ensure the values that would apply to each occupant exactly match the values shown [in the table below](#). You will be prompted in **RBIS** to confirm your acceptance of created records (see [Figure 1](#)).



*Figure 1: Created Records Message*

#### **Case Structuring Inducing Created Records:**

1. When structuring a case, enter the Number of **Person Forms submitted**. **Exclude** uninjured passengers for which you have no data anywhere in the case material.
2. On the Vehicle form, code the [NUMBER OF OCCUPANTS](#) data element with the total number of occupants (both injured and uninjured) in the vehicle, as indicated in the case material.
3. Once the [vPIC BODY CLASS](#) and [NCSA BODY TYPE](#) **have** been **selected**, and it is not a bus, the system will generate “Created” Person Level (MV Occupant) forms for the additional occupants (i.e., forms for the uninjured passengers excluded when structuring in “1” above.). A confirmation message will appear (see [Figure 1](#) above). Once confirmed, the system then fills in the form with the data shown [in the Table](#).

**In the following situations people must be counted in *Number of Person Forms for a Vehicle when structuring a case*:**

1. If the vehicle is a **large** Bus (**BODY TYPES 50-52, 55, 58, 59**) only the driver and injured bus passengers are entered into the system for these vehicles, and additional Person forms will not be automatically created.
2. Any driver or injured passenger of a motor vehicle in transport.
3. Any occupant of a motor vehicle not in transport.

***The Created Records are editable and each of the values in the table below can be edited as appropriate. The standard edit checks are activated.***

## Created Records Standard Set of Values

| Element Name                                   | Code       | Attribute                                     |
|------------------------------------------------|------------|-----------------------------------------------|
| Age                                            | 998        | Not Reported                                  |
| Sex                                            | 8          | Not Reported                                  |
| Person Type                                    | 02         | Passenger of a Motor Vehicle in Transport     |
| Injury Severity                                | 0          | No Apparent Injury (O)                        |
| Seating Position                               | 98         | Not Reported                                  |
| Restraint System Use Subfield 1 <sup>123</sup> | 98         | Not Reported                                  |
| Restraint System Use Subfield 2                | 7          | None Used/Not Applicable                      |
| Helmet Use Subfield 1 <sup>123</sup>           | 98/20      | Not Reported/ <b>None Used/Not Applicable</b> |
| Helmet Use Subfield 2                          | 7          | None Used/Not Applicable                      |
| Air Bag Deployed                               | 98/20      | Not Reported/ <b>Not Applicable</b>           |
| Ejection                                       | 7          | Not Reported                                  |
| *Ejection Path                                 | 0          | Ejection Path Not Applicable                  |
| *Extrication                                   | 0          | Not Extricated or Not Applicable              |
| Police-Reported Alcohol Involvement            | 8          | Not Reported                                  |
| *Method of Alcohol Determination (By Police)   | 9          | Not Reported                                  |
| Alcohol Test Status                            | 0          | Test Not Given                                |
| Alcohol Test Type                              | 00         | Test Not Given                                |
| Alcohol Test Result                            | 996        | Test Not Given                                |
| Police Reported Drug Involvement               | 8          | Not Reported                                  |
| *Method of Drug Determination (By Police)      | 8          | Not Reported                                  |
| *Drug Test Status                              | 0          | Test Not Given                                |
| *Drug Specimen                                 | 00         | Test Not Given                                |
| *Drug Test Result                              | 000        | Test Not Given                                |
| Transported to First Medical Facility By       | 0          | Not Transported <b>for Treatment</b>          |
| *Died at Scene/En Route                        | 0          | Not Applicable                                |
| *Death Date                                    | 88 88 8888 | Not Applicable (Non-fatal)                    |
| *Death Time                                    | 8888       | Not Applicable (Non-fatal)                    |
| Person Related Factor                          | 000        | None                                          |
| *Death Certificate Number                      | 0s         | Not Applicable (not a fatality)               |
| *Fatal Injury at Work                          | 8          | Not Applicable (not a fatality)               |
| *Race                                          | 000        | Not a Fatality (not applicable)               |
| *Hispanic Origin                               | 00         | Not a Fatality (not applicable)               |

### \*FARS Only Elements

1. *For Passenger Vehicles, Automobile Derivatives, Utility Vehicles, Light/Medium/Heavy Trucks, Motorhomes, (NCSA BODY TYPE equals 1-79, 92-95, 98, or 99) RESTRAINT SYSTEM USE Subfield 1-Type of Restraint System in Use will auto-populate with 98 (Not Reported) and Subfield 2 – ANY INDICATION OF MIS-USE as 7 (None Used/Not Applicable) and HELMET USE Subfield 1- as 20 (Not Applicable) and HELMET USE Subfield 2 - ANY INDICATION OF MIS-USE as 7 (None Used/Not Applicable).*
2. *For Motorcycles, Mopeds, All-terrain Vehicles, All-terrain Cycles, Other Motored Cycles, Unknown Motored Cycle Types, and ATVs, (NCSA BODY TYPE equals 80-84, or 88-91), RESTRAINT SYSTEM USE Subfield 1-Type of Restraint System in Use will autofill with 20 (None Used/Not Applicable) and Subfield 2 - Any Indication of Mis-Use will autofill with 7 (None Used/Not Applicable) and HELMET USE Subfield 1 will autofill with 98 (Not Reported) and HELMET USE Subfield 2 - ANY INDICATION OF MIS-USE as 7 (None Used/Not Applicable).*

*For Unenclosed and Enclosed Three Wheel Motorcycles/Autocycles, ROVs, and Other Vehicle Types, (NCSA BODY TYPE equals 85-87, 96, or 97) RESTRAINT SYSTEM USE Subfield 1-Type of Restraint System in Use will auto-populate with 98 (Not Reported) and Subfield 2 - Any Indication of Mis-Use as 7 (None Used/Not Applicable) and HELMET USE Subfield 1- as 98 (Not Reported) and HELMET USE Subfield 2 - ANY INDICATION OF MIS-USE as 7 (None Used/Not Applicable).*

## 300. Data Element Coding Instructions

### 301. Section Organization

301.1 For each element, an instruction page follows in the order of the elements on the ***coding levels***. In an element that is duplicated on more ***than*** one ***coding level***, the instructions are provided in the first occurrence of the element with ***a*** reference ***and hyperlink in*** the ***subsequent*** occurrence.

301.1.1 The letters in the upper right-hand corner refer to ***the Coding Levels***:

- ‘C’ - Crash Level
- ‘V’ - Vehicle Level
- ‘D’ - Driver Level
- ‘PC’ - Precrash Level (Vehicle/Driver)
- ‘P’ - Person Level (MV Occupant)
- ‘NM’ - Person Level (Not a MV Occupant)

301.1.2 The *Format* section gives the type ***of*** element (***e.g., numeric, alphanumeric***).

301.1.3 The *Element Value* section lists the attributes for the element and their associated codes.

301.1.4 The *Remarks* section contains coding instructions, special instructions, etc., for the element.

## 400. Understanding and Managing Consistency Checks

*In an edit check, data elements are presented in all capital letters so the reader may quickly recognize which elements are included in the edit check. The individual attributes are not written out, but rather are represented by their codes. To fully understand the edit check, the reader should look up the data element(s), identify the code(s), and read the attribute(s).*

### 401. Consistency Check Formats

*There are three types of edit check formats (if/then, unlikely, and case status / structure error).*

#### 401.1 IF/THEN Edit Checks

*If/then edit checks can further take one of two forms:*

- *Must/must not, or*
- *Should/should not*

*The majority of edit checks are presented in this form. The form is a statement that says: If (first condition) then (second condition). The “then” clause in this form includes the word(s) “should”/“should not” or “must”/“must not.” So, the edit check is saying: If the first condition exists, then the second condition:*

- *Should or should not exist, or*
- *Must or must not exist.*

*See more below on interpreting and resolving “should” vs. “must” edit checks.*

*Please be aware that the issue could be with the coding of the data element(s) associated with the IF condition, the THEN condition, or both.*

*Example:*

*2B0P: If JACKKNIFE equals 1-3, then VEHICLE TRAILING must not equal 0, 9.*

*Read as: If the data element JACKKNIFE equals 1 (No), 2 (Yes-First Event), or 3 (Yes-Subsequent Event), then the data element VEHICLE TRAILING must not equal 0 (No Trailing Units) or 9 (Unknown).*

*Explanation: If the data element JACKKNIFE is coded with codes that apply to an articulated vehicle (codes 1-3), it follows that the element VEHICLE TRAILING must be coded with at least one trailing unit. On the other hand, VEHICLE TRAILING could be coded correctly, and JACKKNIFE might need to be corrected.*

## 401.2 UNLIKELY Edit Checks

*Another format an edit check may take is an “unlikely” statement; meaning the condition is unlikely but possible.*

*Example:*

**U020: UNLIKELY: FIRST HARMFUL EVENT equals 02, 04, 06, 51, or 72.**

*Read as: It is unlikely that the FIRST HARMFUL EVENT is 02 (Fire/Explosion), 04 (Gas Inhalation), 06 (Injured in Vehicle (Non-Collision)), 51 (Jackknife (harmful to this vehicle)), or 72 (Cargo/Equipment Loss, Shift, or Damage (harmful)).*

*Explanation: These events are all non-collision harmful events that typically occur after some other event. For example, when 02 (Fire/Explosion) is coded, it is usually following a collision event such as striking a motor vehicle in-transport. Because it is possible for these codes to be the FHE, the UNLIKELY edit check is merely to make the analyst pause and double check the coding to be sure it is correct.*

## 401.3 Case Status/Structure Integrity Error

*The third format an edit check may take is a “case status/structure integrity error” presented as a factual statement.*

- *Example 1 (Case Status):*

**FA0F: If FIRST HARMFUL EVENT equals blank, then case status is flawed.**

*Read as: The FHE cannot be blank.*

- *Example 2 (Case Structure Integrity):*

**CSI2: There must be exactly one DRIVER LEVEL FORM corresponding to each VEHICLE LEVEL FORM.**

*Read as: There must be one driver level form for each vehicle.*

## 402. Level 1 and Level 2 Edit Checks

*All edit checks are either Level 1 or Level 2.*

### 402.1 Level 1 Edit Checks

*Level 1 edit checks include:*

- *“If/then” edit checks with “must/must not” in the “then” clause*
- *Case status/structure integrity errors*

*Level 1 edit checks cannot be overridden. The combination of conditions is not possible. Your coding or the entry system must be fixed to clear the error.*

*Level 1 Example:*

**4Z0P: If SEQUENCE OF EVENTS equals 02, then FIRE OCCURRENCE for this vehicle must equal 1.**

*Read as: If the SEQUENCE OF EVENTS equals 02 (Fire/Explosion), then you must also code FIRE OCCURRENCE as 1 (Yes) for this vehicle.*

*Explanation: This Level 1 edit check cannot be overridden. If you've coded a fire/explosion for this vehicle in the Crash Events Table, then the data element FIRE OCCURRENCE must also reflect the presence of the fire/explosion for this vehicle.*

## **402.2 Level 2 Edit Checks**

*Level 2 edit checks include:*

- *“If/then” edit checks with “should/should not” in the “then” clause*
- *Unlikely edit checks*

*Level 2 edit checks may be overridden if you determine the coding is correct.*

*Level 2 Example:*

*V052: If BUS USE equals 04, then vPIC BODY CLASS should equal 016 (Bus), or FINAL STAGE BODY CLASS should equal 016 (Bus).*

*Read as: If BUS USE is coded 04 (Intercity), then NCSA BODY TYPE for this vehicle should be 51 (Cross Country/Intercity Bus).*

*Explanation: This Level 2 edit check can be overridden if necessary. If you have something other than this coding combination, be sure to check your coding first before overriding the edit check.*

## **402.3 Resolving Edit Checks**

*Do not be intimidated by edit checks. They are meant as aids and safety nets for coding accurately, but you should not interpret them as saying “what you coded must be wrong.” You need to evaluate what the edit check is saying, what your documents are saying, and what you have coded.*

*If you determine that what you have coded is correct according to coding instructions, and you cannot override the edit check, it may be the edit check that is faulty. You should report this by submitting a coding help ticket through the [CDAN HelpDesk](#). See the [Coding Guide: How to Create a Coding Question Ticket in the CDAN Helpdesk](#) for helpful information.*

## **403. Overriding Edit Checks**

### **403.1 Level 2 Edit Checks**

*Sometimes Level 2 edit checks need to be overridden. The edit check is there to make the analyst pause and take a second look at the coding to be certain it is correct before taking the next step and overriding the edit check. When an edit check override is necessary, a short but detailed explanation is required describing why the code combination is correct.*

**General notes for overriding Level 2 Edit Checks:**

- *Provide enough detail to demonstrate proper coding.*
- *Please do not use the override reason: “Per PCR” or similar. More detail is required.*
- *For age, include age and/or date of birth shown on PCR.*
- *For Blood Alcohol Concentration (BAC), include the BAC shown on the PCR for CRSS, and the BAC and source document for FARS.*
- *Generally, include the information used to code the data elements included in the edit check.*
- *When applicable, indicate that the State coding rules were used.*
- *Override explanations are reviewed to verify proper coding, as part of the data quality control efforts.*

**Example:**

**U170: UNLIKELY: RESTRAINT SYSTEM USE Subfield-1 Type of Restraint System in Use equals 01.**

**Read as:** *It is unlikely that the RESTRAINT SYSTEM USE Subfield 1, Type of Restraint System in Use is equal to 01 (Shoulder Belt Only Used).*

**Explanation:** *It is unusual for a person to only be using a shoulder belt and not also a lap belt. You should check your coding against your case material to be certain. If you are certain this is the correct coding, you may override this edit check.*

**Example Override Reason:** *“Person using shoulder belt but sitting on lap belt.”*

**403.2 Level 1 Edit Checks**

*Level 1 edit checks cannot be overridden. A Level 1 edit check is saying the combination of conditions is not possible. Your coding or the system must be fixed to clear the error.*

*Review your case material and coding instructions to see if you can identify any errors you made and make corrections accordingly. If you believe that what you have coded is correct according to coding instructions and the case material you have, you should report this by submitting a coding help ticket through the [CDAN HelpDesk](#). See the [Coding Guide: How to Create a Coding Question Ticket in the CDAN Helpdesk](#) for helpful information.*



## State Number - FARS Only

**FORMAT:** 2 numeric

**SAS NAME:** Accident.STATE

**ELEMENT VALUES:**

| Codes | Attributes           |
|-------|----------------------|
| 01    | Alabama              |
| 02    | Alaska               |
| 04    | Arizona              |
| 05    | Arkansas             |
| 06    | California           |
| 08    | Colorado             |
| 09    | Connecticut          |
| 10    | Delaware             |
| 11    | District of Columbia |
| 12    | Florida              |
| 13    | Georgia              |
| 15    | Hawaii               |
| 16    | Idaho                |
| 17    | Illinois             |
| 18    | Indiana              |
| 19    | Iowa                 |
| 20    | Kansas               |
| 21    | Kentucky             |
| 22    | Louisiana            |
| 23    | Maine                |
| 24    | Maryland             |
| 25    | Massachusetts        |
| 26    | Michigan             |
| 27    | Minnesota            |
| 28    | Mississippi          |
| 29    | Missouri             |
| 30    | Montana              |

| Codes | Attributes     |
|-------|----------------|
| 31    | Nebraska       |
| 32    | Nevada         |
| 33    | New Hampshire  |
| 34    | New Jersey     |
| 35    | New Mexico     |
| 36    | New York       |
| 37    | North Carolina |
| 38    | North Dakota   |
| 39    | Ohio           |
| 40    | Oklahoma       |
| 41    | Oregon         |
| 42    | Pennsylvania   |
| 43    | Puerto Rico    |
| 44    | Rhode Island   |
| 45    | South Carolina |
| 46    | South Dakota   |
| 47    | Tennessee      |
| 48    | Texas          |
| 49    | Utah           |
| 50    | Vermont        |
| 51    | Virginia       |
| 52    | Virgin Islands |
| 53    | Washington     |
| 54    | West Virginia  |
| 55    | Wisconsin      |
| 56    | Wyoming        |
|       |                |

**Definition:** This element identifies the State in which the crash occurred.

**Remarks:** None.

Consistency Checks [\(See Section 400\)](#):

| <b>Error ID</b> | <b>IF</b>                                                                                                           | <b>THEN</b>                                                                 |
|-----------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| 200P            | CITY is greater than 0000 and less than 9997, and COUNTY is greater than 000 and less than 997,                     | COUNTY and CITY must be valid codes for the STATE.                          |
| 220P            | LIGHT CONDITION equals 4, and STATE is not equal to 02,                                                             | CRASH TIME must equal 0300-0900, 9999.                                      |
| 2300            | LIGHT CONDITION equals 5, and STATE is not equal to 02,                                                             | CRASH TIME should equal 1600-2200, 9999.                                    |
| <b>4X6A</b>     | <b>NON-MOTORIST DISTRACTED BY equals 17,</b>                                                                        | <b>STATE should equal GA, MN, MO, NV, NY, or SC.</b>                        |
| <b>909P</b>     | <b>STATE or PSU_STATE is equal to GA, and any VEHICLE IDENTIFICATION NUMBER (VIN) does not equal 0s, 8s, or 9s,</b> | <b>VEHICLE IDENTIFICATION NUMBER (VIN) should be unique within a crash.</b> |
| A010            | STATE equals 02, and LIGHT CONDITION equals 4,                                                                      | CRASH TIME should equal 0300-1000, 9999.                                    |
| A020            | STATE equals 02, and LIGHT CONDITION equals 5,                                                                      | CRASH TIME should equal 1500-2359, 9999.                                    |
| <b>A16A</b>     | <b>FUNCTIONAL SYSTEM equals 1, and STATE does not equal 02, and RELATION TO JUNCTION equals 01, 07, 18, or 19,</b>  | <b>TRAFFICWAY DESCRIPTION should equal 2 or 3.</b>                          |
| A940            | STATE NUMBER equals 11,                                                                                             | maximum SPEED LIMIT (not including 98 or 99) should equal 55.               |
| A945            | STATE NUMBER equals 15,                                                                                             | maximum SPEED LIMIT (not including 98 or 99) should equal 60.               |
| A950            | STATE NUMBER equals 02, 09, 10, 25, 34, 36, 41, 43, 44, 50,                                                         | maximum SPEED LIMIT (not including 98 or 99) should equal 65.               |
| A955            | STATE NUMBER equals 01, 05, 06, 12, 13, 17, 18, 19, 21, 24, 26, 27, 28, 29, 33, 37, 39, 42, 45, 47, 51, 53, 54, 55, | maximum SPEED LIMIT (not including 98 or 99) should equal 70.               |
| A960            | STATE NUMBER equals 04, 08, 20, 22, 23, 31, 35, <b>or</b> 38,                                                       | maximum SPEED LIMIT (not including 98 or 99) should equal 75.               |
| A961            | STATE NUMBER equals 16, 30, 32, <b>40</b> , 46, 49, 56,                                                             | maximum SPEED LIMIT (not including 98 or 99) should equal 80.               |
| A962            | STATE NUMBER equals 48,                                                                                             | maximum SPEED LIMIT (not including 98 or 99) should equal 85.               |
| <b>BJ8P</b>     | <b>DRIVER DISTRACTED BY equals 17,</b>                                                                              | <b>STATE should equal GA, MN, MO, NV, NY, or SC.</b>                        |

| <b>Error ID</b> | <b>IF</b>                                                                                                      | <b>THEN</b>                                                                                                        |
|-----------------|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| G01P            | STATE is ____, and GLOBAL POSITION - LATITUDE (degrees) is not equal to 77, 88, 99,                            | LATITUDE (degrees) must be equal to, or greater than (1d), and LATITUDE (degrees) must not be greater than (2d).   |
| G02P            | STATE is ____, and GLOBAL POSITION LATITUDE (degrees) equals (1d),                                             | LATITUDE (minutes) must be equal to, or greater than (1s).                                                         |
| G03P            | STATE is ____, and GLOBAL POSITION LATITUDE (degrees) equals (2d),                                             | LATITUDE (minutes) must not be greater than (2s).                                                                  |
| G04P            | STATE is ____, and GLOBAL POSITION LONGITUDE (degrees) is not equal to 777, 888, 999,                          | LONGITUDE (degrees) must be equal to, or greater than (3d), and LONGITUDE (degrees) must not be greater than (4d). |
| G05P            | STATE is ____, and GLOBAL POSITION LONGITUDE (degrees) equals (3d),                                            | LONGITUDE (minutes) must be equal to, or greater than (3s).                                                        |
| G06P            | STATE is ____, and GLOBAL POSITION LONGITUDE (degrees) equals (4d),                                            | LONGITUDE (minutes) must not be greater than (4s).                                                                 |
| U370            | UNLIKELY: EXTENT OF DAMAGE equals 8 if STATE does not equal <b>06</b> , 17, 18, 34, <b>36</b> , 48, 49, or 53. | --                                                                                                                 |
| U430            | UNLIKELY: VEHICLE REMOVAL equals 8 unless STATE equals <b>TX</b> .                                             | --                                                                                                                 |
| U683            | UNLIKELY: OWNERSHIP equals 98 or 99 unless STATE equals <b>06</b> , <b>12</b> , or 48.                         | --                                                                                                                 |
| V983            | VEHICLE TRAILING equals 3,                                                                                     | STATE should equal 04, 08, 16, 18, 20, 30-32, 38-41, 46, 49.                                                       |
| V984            | STATE does not equal 04, 08, 16, 18, 20, 30-32, 38-41, 46, 49,                                                 | VEHICLE TRAILING should not equal 3.                                                                               |

## Consecutive Number - FARS Only

**FORMAT:** 4 numeric

**SAS NAME:** Accident.ST\_CASE

**ELEMENT VALUES:**

| Codes     | Attributes      |
|-----------|-----------------|
| 0001-9999 | Assigned Number |

**Definition:** This element identifies the unique case number assigned by the data entry system.

**Remarks:** Please complete FARS forms with the ***RBIS*** assigned case number.

## **Crash Level Data Elements**

[C1 - State Number - FARS Only](#)

[C2 - Consecutive Number - FARS Only](#)

[C3 - Number of Forms Submitted for Persons Not in Motor Vehicles](#)

[C4 - Number of Vehicle Forms Submitted](#)

[C5 - Number of Motor Vehicle Occupant Forms Submitted](#)

[C6 - County / C7 City - FARS Only](#)

[C8 - Crash Date](#)

[C9 - Crash Time](#)

[C10 - Trafficway Identifier - FARS Only](#)

[C11 - Route Signing - FARS Only](#)

[C12 - Land Use and Functional System - FARS Only](#)

[C13 - Ownership - FARS Only](#)

[C14 - National Highway System - FARS Only](#)

[C15 - Special Jurisdiction - FARS Only](#)

[C16 - Milepoint - FARS Only](#)

[C17 - Global Position](#)

[C18 - Crash Events](#)

[C19 - First Harmful Event](#)

[C20 - Manner of Collision of the First Harmful Event](#)

[C21 - Relation to Junction](#)

[C22 - Type of Intersection](#)

[C23 - Relation to Trafficway](#)

[C24 - Work Zone](#)

[C25 - Light Condition](#)

[C26 - Atmospheric Conditions](#)

[C27 - School Bus Related](#)

[C28 - Rail Grade Crossing Identifier - FARS Only](#)

[C29 - Notification Time EMS - FARS Only](#)

[C30 - Arrival Time EMS - FARS Only](#)

[C31 - EMS Time at Hospital - FARS Only](#)

[C32 - Related Factors - Crash Level](#)

[C33 - Interstate Highway - CRSS Only](#)

[C34 - Stratum - CRSS Only](#)

[C35 - Police Jurisdiction - CRSS Only](#)

[Additional State Information](#)

### C3 - Number of Forms Submitted for Persons Not in Motor Vehicles

**FORMAT:** 2 numeric

**SAS NAME:** Accident.PEDS

**ELEMENT VALUES:**

| Codes | Attributes    |
|-------|---------------|
| 00-99 | Actual Number |

**Definition:** This element records the number of Person Level (Not a Motor Vehicle Occupant) forms that are applicable to this case.

**Remarks:** This count will match exactly the people counted in the case structure field “Number of Persons Not in Motor Vehicles.” Occupants of any motor vehicle in-transport, parked/stopped off roadway motor vehicles, working motor vehicles, or motor vehicles in motion outside the trafficway will **not** be counted in this field.

The count for this field includes:

1. Occupants of a Non-Motor Vehicle Transport Device (people riding in an animal-drawn conveyance, on an animal, injured occupants of railway trains) - [PERSON TYPE code 04](#).
2. Pedestrians, Bicyclists, and Other Cyclists - [PERSON TYPE codes 05, 06, and 07](#).
3. People on Personal Conveyances (i.e., skaters, wheelchair occupants) - [PERSON TYPE codes 11-13](#).
4. Any injured people **outside** the trafficway that are not in a motor vehicle (in buildings) - [PERSON TYPE code 10 \(Persons In/On Buildings\)](#).

**Consistency Checks** ([See Section 400](#)):

| Error ID | IF                                                                                                                                                | THEN                                                                                                      |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| 5Y0F     | FIRST HARMFUL EVENT equals 08, 09, 15,                                                                                                            | NUMBER OF FORMS SUBMITTED FOR PERSONS NOT IN MOTOR VEHICLES must not equal 00.                            |
| CSI4     | NUMBER OF FORMS SUBMITTED FOR PERSONS NOT IN MOTOR VEHICLES must equal the actual number of persons not in motor vehicles in this case.           | --                                                                                                        |
| PB34     | NUMBER OF FORMS SUBMITTED FOR PERSONS NOT IN MOTOR VEHICLES equals 01, and FIRST HARMFUL EVENT equals 08, and RELATION TO JUNCTION (b) equals 02, | PEDESTRIAN/BIKE TYPING -CRASH TYPE - PEDESTRIAN must not equal 320, 330, 360, 680, 830, 890, 900, or 910. |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                           | <b>THEN</b>                                                       |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| PB35            | NUMBER OF FORMS SUBMITTED FOR PERSONS NOT IN MOTOR VEHICLES equals 01, and FIRST HARMFUL EVENT equals 08, and RELATION TO JUNCTION (b) equals 02,                                   | PEDESTRIAN/BIKE TYPING -CRASH LOCATION - PEDESTRIAN must equal 1. |
| PBA8            | NUMBER OF FORMS SUBMITTED FOR PERSONS NOT IN MOTOR VEHICLES equals 1, and the FIRST HARMFUL EVENT equals 08, 09, or 15, and NON-MOTORIST LOCATION AT TIME OF CRASH equals 01 or 02; | RELATION TO JUNCTION (SPECIFIC LOCATION) must equal 3.            |



## C4 - Number of Vehicle Forms Submitted

**FORMAT:** 3 numeric

**SAS NAME:** Accident.VE\_TOTAL

**ELEMENT VALUES:**

| Codes   | Attributes    |
|---------|---------------|
| 001-999 | Actual Number |

**Definition:** This element records all contact motor vehicles that the officer has reported on the police crash report as a unit involved in the crash.

**Remarks:** Included are in-transport vehicles, not in-transport vehicles (parked/stopped off roadway/ working motor vehicles), or vehicles located outside the trafficway boundaries.

**When identifying contact vehicles for this count:**

1. Remember all vehicles that are part of the unstabilized situation are part of the crash. Therefore, when recording the number of vehicles involved, the vehicles need not make contact with one another. They need only have a harmful event as part of the unstabilized situation. For example, two vehicles are traveling through an intersection when a pedestrian steps into the roadway. The first vehicle strikes the pedestrian and the second vehicle swerves to avoid the first, loses control, and overturns. Both vehicles in this situation are “contact” vehicles; therefore, this is a two-vehicle crash.
2. Even though there are no injuries in the vehicle, or the amount of damage sustained is below the State threshold, if the vehicle is involved in a harmful event it is still a contact vehicle within the entire crash and should be included in this count even if the vehicle information section is not completed on the police crash report.

See the [Coding Guide: Involved Vehicles and Contact Vehicles](#) for helpful information.

**IMPORTANT:**

Remember, you must have **at least one Motor Vehicle In-Transport** involved in the crash for this to be a reportable case.

**Consistency Checks ([See Section 400](#)):**

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                   | <b>THEN</b>                                                                               |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| 050P            | PERSON TYPE equals 04- <b>07</b> , <b>10</b> -19, and NUMBER OF VEHICLE FORMS SUBMITTED equals 001,                                                         | VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST must equal 001.                     |
| 1A0P            | RELATED FACTORS-CRASH LEVEL equals <b>014</b> ,                                                                                                             | NUMBER OF VEHICLE FORMS SUBMITTED must be greater than 001.                               |
| 2Z0F            | any SEQUENCE OF EVENTS equals 12, 14, 45, 54, 55,                                                                                                           | NUMBER OF VEHICLE FORMS SUBMITTED must be greater than 001.                               |
| 428P            | CRASH TYPE equals 20-91,                                                                                                                                    | NUMBER OF VEHICLE FORMS SUBMITTED must be greater than 001.                               |
| 429P            | NUMBER OF VEHICLE FORMS SUBMITTED equals 001,                                                                                                               | CRASH TYPE must equal 00, 01-16, 92, 98, 99.                                              |
| 42AP            | NUMBER OF MOTOR VEHICLES FORMS SUBMITTED equals 001, and RELATION TO TRAFFICWAY equals 02, 04, 06-08, 12, and ATTEMPTED AVOIDANCE MANEUVER equals 00 or 01, | CRITICAL EVENT - PRECRASH (EVENT) should equal 01-06, 08-14, or 19.                       |
| 670F            | FIRST HARMFUL EVENT equals 12, 14, 45, 54, 55,                                                                                                              | NUMBER OF VEHICLE FORMS SUBMITTED must be greater than 001.                               |
| A080            | DRIVER PRESENCE equals 0, and FIRST HARMFUL EVENT equals 12, and NUMBER OF VEHICLE FORMS SUBMITTED equals 002,                                              | one RELATED FACTORS-DRIVER LEVEL should equal <b>020</b> or <b>054</b> .                  |
| A090            | NUMBER OF VEHICLE FORMS SUBMITTED is greater than 001,                                                                                                      | there should be at least one vehicle with TRAVEL SPEED of 001-151, 997-999, or blanks.    |
| <b>A091</b>     | <b>NUMBER OF VEHICLE FORMS SUBMITTED is greater than one, and CRITICAL EVENT – PRECRASH (EVENT) equals 70-73,</b>                                           | <b>TRAFFICWAY DESCRIPTION should equal 0 for at least one other vehicle in the crash.</b> |
| AZDQ            | DRIVER MANEUVERED TO AVOID equals 04,                                                                                                                       | NUMBER OF VEHICLE FORMS SUBMITTED must be greater than 001.                               |
| CSI1            | NUMBER OF VEHICLE FORMS must equal the actual number of VEHICLE LEVEL FORMS for this case.                                                                  | --                                                                                        |
| CSI2            | There must be exactly one DRIVER LEVEL FORM corresponding to each VEHICLE LEVEL FORM.                                                                       | --                                                                                        |
| V594            | RELATED FACTORS - VEHICLE LEVEL equals <b>029</b> ,                                                                                                         | NUMBER OF VEHICLE FORMS SUBMITTED must be greater than 002.                               |

**Consistency Checks (FARS Only) [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                                                                                           | <b>THEN</b>                                            |
|-----------------|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| 431P            | NUMBER OF VEHICLE FORMS SUBMITTED equals 002, and UNDERRIDE/OVERRIDE equals 1-8, 9 for one vehicle, | UNDERRIDE/OVERRIDE for the other vehicle must equal 0. |
| 432P            | NUMBER OF VEHICLE FORMS SUBMITTED equals 001,                                                       | UNDERRIDE/OVERRIDE must equal 0.                       |

## C5 - Number of Motor Vehicle Occupant Forms Submitted

**FORMAT:** 3 numeric

**SAS NAME:** Accident.PERSONS

**ELEMENT VALUES:**

| Codes   | Attributes    |
|---------|---------------|
| 000-999 | Actual Number |

**Definition:** This element records the number of Person Level (Motor Vehicle Occupant) forms that are applicable to this case.

**Remarks:** This element is derived when structuring the case. See [203. How to Structure a Case](#) section for remarks.

**Consistency Check** ([See Section 400](#)):

| Error ID | Error Message                                                                                                                               |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------|
| CSI3     | NUMBER OF MOTOR VEHICLE OCCUPANT FORMS SUBMITTED must equal the actual number of Person Level (Motor Vehicle Occupant) forms for this case. |

## C6 - County / C7 City - FARS Only

**FORMAT:** one set 3 numeric, one set 4 numeric

**SAS NAME:** Accident.COUNTY, Person.COUNTY, Accident.CITY

### ELEMENT VALUES:

#### County:

| Codes   | Attributes     |
|---------|----------------|
| 000     | Not Applicable |
| 001-996 | GSA Codes      |
| 997     | Other          |
| 998     | Not Reported   |
| 999     | Unknown        |

#### City:

| Codes     | Attributes     |
|-----------|----------------|
| 0000      | Not Applicable |
| 0001-9996 | GSA Codes      |
| 9997      | Other          |
| 9898      | Not Reported   |
| 9999      | Unknown        |

**Definition:** This element refers to the location of the unstabilized event with regard to the County/City.

**Remarks:** COUNTY and CITY are considered one field. Both must be submitted at the same time.

If COUNTY only is known, CITY may be **9999 (Unknown)**.

Code CITY as **0000 (Not Applicable)** if the crash does not occur within city limits.

Code CITY as **9997 (Other)** if CITY is other than those given by the GSA Codes.

Code CITY as **9999 (Unknown)** if crash location is unknown.

Code COUNTY as **997 (Other)** if COUNTY is other than those given by the GSA Codes.

Code COUNTY as **999 (Unknown)** if location is unknown.

In general, **000 and 0000 (Not Applicable)** should be used when there is no GSA code for the crash location.

**997 and 9997 (Other)** should be used when the Analyst knows there is a GSA code for the location, but the attribute does not appear on the master GSA code list provided by NHTSA Headquarters. Both situations should be reported to NHTSA Headquarters.

#### **998 and 9898 (Not Reported)**

If a State's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported.**" *Check to see if "Unknown" is more appropriate for the situation.*

Code **Not Reported** in these two situations:

1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

**Consistency Checks** ([See Section 400](#)):

| <b>Error ID</b> | <b>IF</b>                                                                                       | <b>THEN</b>                                        |
|-----------------|-------------------------------------------------------------------------------------------------|----------------------------------------------------|
| 200P            | CITY is greater than 0000 and less than 9997, and COUNTY is greater than 000 and less than 997, | COUNTY and CITY must be valid codes for the STATE. |
| 210P            | CITY is greater than 0000 and less than 9997,                                                   | COUNTY must not equal 999.                         |

## C8 - Crash Date

**FORMAT:** 2 sets of 2 numeric and 1 set of 4 numeric

**SAS NAME:** Accident.DAY, Vehicle.DAY, Person.DAY, Parkwork.PDAY,  
Accident.MONTH, Accident.DAY\_WEEK, Accident.YEAR, Vehicle.MONTH,  
Person.MONTH, Parkwork.PMONTH

### ELEMENT VALUES:

| Codes                           | Attributes               |
|---------------------------------|--------------------------|
| 01-12                           | Month                    |
| 01-31                           | Day ( <b>FARS ONLY</b> ) |
| Current<br>( <i>prefilled</i> ) | Year                     |

**Definition:** This element identifies the date on which the crash occurred.

**Remarks:** If the police crash report indicates that the crash (usually a hit-and-run) occurred between some p.m. and a.m. time (e.g., 8:00 p.m. and 6:00 a.m.) on either a preceding or following day, code the crash as occurring on the following day. If a range of days is indicated (e.g., between Sunday and Friday), code the last date of the range (e.g., Friday).

### FARS SPECIAL INSTRUCTION:

In cases where the crash date is reported as Unknown on the police crash report, refer to the death certificate for the death date to establish the crash date.

### CRSS SPECIAL INSTRUCTION:

The date of the crash is rolled up from CRSS sampling program.

If the date of the crash is unknown, use the date the crash was reported. If the [time of the crash](#) is unknown, record the time as 9999.

If the month cannot be determined from the police crash report, enter the month of the Ending Contact Date from the Inventory Record.

If the crash date on the police crash report does not match the crash date shown on the data entry screen and it is determined that the crash date on the police crash report is correct, the crash date is corrected.

### Consistency Checks ([See Section 400](#)):

| Error ID | IF                                                   | THEN                                                                 |
|----------|------------------------------------------------------|----------------------------------------------------------------------|
| 170F     | CRASH MONTH equals current month,                    | CRASH DAY should be at least 2 days prior to current day or 99.      |
| 1C0P     | the VEHICLE MODEL YEAR is not equal to 9998 or 9999, | the VEHICLE MODEL YEAR must not be greater than CRASH YEAR plus ONE. |

| <b>Error ID</b> | <b>IF</b>                                                                                        | <b>THEN</b>                                                                                                                                                          |
|-----------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 921P            | <b>NCSA MAKE</b> is not 97, 98, 99, and equals ____, and <b>NCSA MODEL</b> equals ____,          | <b>VEHICLE MODEL YEAR</b> must equal ____, or <b>CRASH YEAR</b> plus 1.                                                                                              |
| A030            | <b>CRASH MONTH</b> equals 05-09,                                                                 | <b>ATMOSPHERIC CONDITIONS</b> should not equal 03, 04, 11, 12.                                                                                                       |
| A040            | <b>CRASH MONTH</b> equals 05-09,                                                                 | <b>ROADWAY SURFACE CONDITIONS</b> should not equal 03, 04, 10.                                                                                                       |
| A041            | <b>CRASH MONTH</b> equals 05-09,                                                                 | <b>SEQUENCE OF EVENTS, FIRST HARMFUL EVENT, MOST HARMFUL EVENT</b> should not equal 48.                                                                              |
| FP4F            | <b>CRASH DATE</b> is blank,                                                                      | case status is flawed.                                                                                                                                               |
| V620            | <b>CRASH MONTH</b> is between January and March,                                                 | the <b>VEHICLE MODEL YEAR</b> should NOT be greater than the <b>CRASH YEAR</b> unless it equals 9998 or 9999 (contact Coding Assistance through the CDAN Helpdesk.). |
| <b>VP05</b>     | <b>vPIC MAKE</b> is not 99997, 99998, 99999, and equals ____, and <b>vPIC MODEL</b> equals ____, | <b>VEHICLE MODEL YEAR</b> must equal ____, or <b>CRASH YEAR</b> plus 1.                                                                                              |

**Consistency Checks (FARS Only) ([See Section 400](#)):**

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                   | <b>THEN</b>                                                                                                                       |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| 3K0P            | <b>DATE OF MOST RECENT CRASH</b> [Year], <b>SUSPENSION, CONVICTION</b> is not equal to 9999 and <b>DATE OF MOST RECENT CRASH</b> [Month], <b>SUSPENSION, CONVICTION</b> is not equal to 99, | <b>DATE OF MOST RECENT CRASH, SUSPENSION, CONVICTION</b> must be less than or equal to <b>CRASH DATE</b> .                        |
| 3U1P            | <b>DEATH DATE</b> equals <b>CRASH DATE</b> , and <b>CRASH HOUR</b> is not equal to 99,                                                                                                      | <b>DEATH HOUR</b> must not be less than <b>CRASH HOUR</b> .                                                                       |
| 3U2P            | <b>DEATH DATE</b> equals <b>CRASH DATE</b> , and <b>DEATH HOUR</b> equals <b>CRASH HOUR</b> and <b>CRASH MINUTE</b> is not equal to 99,                                                     | <b>DEATH MINUTE</b> must not be less than <b>CRASH MINUTE</b> .                                                                   |
| 4V1F            | <b>INJURY SEVERITY</b> equals 4,                                                                                                                                                            | <b>DEATH DATE</b> and <b>DEATH TIME</b> for this person must be within 720 hours of the <b>CRASH DATE</b> and <b>CRASH TIME</b> . |
| 4V2F            | <b>CRASH MONTH</b> equals 12, and <b>DEATH MONTH</b> equals 01,                                                                                                                             | <b>DEATH YEAR</b> must equal <b>CRASH YEAR</b> plus 1.                                                                            |
| 4V3F            | <b>CRASH MONTH</b> equals 12,                                                                                                                                                               | <b>DEATH MONTH</b> must equal 01, 12, 88, 99.                                                                                     |
| 4V4F            | <b>CRASH MONTH</b> equals 02-11, and <b>DEATH MONTH</b> is not equal to 88 or 99,                                                                                                           | <b>DEATH MONTH</b> must equal <b>CRASH MONTH</b> or <b>CRASH MONTH</b> plus 1.                                                    |



| <b>Error ID</b> | <b>IF</b>                                                                                                            | <b>THEN</b>                                                                                        |
|-----------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| 4V5F            | CRASH MONTH equals 01, and DEATH MONTH is not equal to 88 or 99,                                                     | DEATH MONTH must equal CRASH MONTH or CRASH MONTH plus 1 or CRASH MONTH plus 2.                    |
| 5K0P            | The Year of DATE OF <b>OLDEST</b> CRASH, SUSPENSION, CONVICTION must be within five years of the Year of CRASH DATE. | --                                                                                                 |
| 6V0P            | DEATH DATE must not be less than CRASH DATE.                                                                         | --                                                                                                 |
| 7V0F            | DEATH YEAR equals 9999,                                                                                              | CRASH MONTH must not be 01-11.                                                                     |
| P520            | CRASH DATE and DEATH DATE are the same, and CRASH TIME and DEATH TIME are the same,                                  | TRANSPORTED TO FIRST MEDICAL FACILITY BY should equal 0 and DIED AT SCENE/EN ROUTE should equal 7. |

## C9 - Crash Time

**FORMAT:** 4 numeric

**SAS NAME:** Accident.HOUR, Accident.MINUTE, Vehicle.HOUR, Vehicle.MINUTE, Person.HOUR, Person.MINUTE, Parkwork.PHOUR, Parkwork.PMINUTE

**ELEMENT VALUES:**

| Codes     | Attributes                                    |
|-----------|-----------------------------------------------|
| 0000-2359 | Valid military time (Code midnight as “0000”) |
| 9999      | Unknown                                       |

**Definition:** This element identifies the time at which the crash occurred.

**Remarks:** Enter the time at which the crash occurred as shown on the police crash report. This is the preferred time in all cases. If the crash time is not reported, unknown, or known to be in error, then all available information in the case material should be used to determine CRASH TIME. If the hour cannot be determined, then enter **9999 (Unknown)**.

*See the [Coding Guide: TIME: Crash Times, EMS Times, Death Times](#) for helpful information.*

If the police crash report indicates the crash occurred during some time interval of greater than one hour (e.g., 8:00 p.m. to 6:00 a.m., or 8:00 a.m. to 5:00 p.m.), enter **9999 (Unknown)**. However, if the interval is one hour or less, code the midpoint of the interval.

### Examples:

- 8:00 p.m. to 9:00 p.m., enter **2030**
- 8:30 p.m. to 9:30 p.m., enter **2100**
- 8:50 p.m. to 9:30 p.m., enter **2110**

When the time is available but a.m. versus p.m. is not shown on the police crash report, base the time on [LIGHT CONDITION](#) (e.g., time is 10:00, LIGHT CONDITION is **2 (Dark - Not Lighted)**; code as **2200**).

AM - Starts at 00:00 Midnight

PM - Starts at 12:00 Noon

### How to Code Midnight:

In general, code midnight as 0000 in military time. Midnight is considered to be the beginning of a new day rather than the end of a day. One minute after midnight is 12:01 and is coded as 0001. However, there may be confusion over which day the source is referring to when “midnight” is cited or referred to without explanation. Our practice may not be the practice followed in your sources; therefore, you must determine which part of the day for the crash date given is being considered in your sources. The following are examples of midnight time references that do not easily translate to FARS and CRSS times.

- “midnight”
- 12:00-midnight
- 24:00

#### **End of Day:**

If your data sources give you a [CRASH DATE](#) and are consistent in talking about the end of that day, when they give a non-translatable “midnight” time reference of the crash, then you should code Crash Time as 2359.

#### **Beginning of Day:**

If your sources give a [CRASH DATE](#) and are consistent in referring to the beginning or early moments of that day when they give a non-translatable “midnight” crash time, code “midnight” as **0000**.

#### **FARS SPECIAL INSTRUCTION:**

If the day of the crash and the day of EMS Notification do not have the same date, then be sure to use attribute [018 \(Date of Crash and Date of EMS Notification Were Not the Same Day\)](#) in RELATED FACTORS - CRASH LEVEL.

#### **CRSS SPECIAL INSTRUCTION:**

The time of the crash is rolled up from CRSS sampling program. If the time of the crash is unknown, record the time as **9999 (Unknown)**.

If the time of the crash on the police crash report does not match the crash time shown on the data entry screen and it is determined that the crash time on the police crash report is correct, then the crash time should be changed to reflect the time listed on the police crash report.

#### **Consistency Checks [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                                               | <b>THEN</b>                                  |
|-----------------|---------------------------------------------------------|----------------------------------------------|
| 220P            | LIGHT CONDITION equals 4, and STATE is not equal to 02, | CRASH TIME must equal 0300-0900, 9999.       |
| 2300            | LIGHT CONDITION equals 5, and STATE is not equal to 02, | CRASH TIME should equal 1600-2200, 9999.     |
| A010            | STATE equals 02, and LIGHT CONDITION equals 4,          | CRASH TIME should equal 0300-1000, 9999.     |
| A020            | STATE equals 02, and LIGHT CONDITION equals 5,          | CRASH TIME should equal 1500-2359, 9999.     |
| A050            | CRASH TIME equals 0900-1600,                            | LIGHT CONDITION should not equal 2-6.        |
| A060            | CRASH TIME equals 2300-0400,                            | LIGHT CONDITION should not equal 1, 4, 5, 9. |
| FP5F            | CRASH TIME is blank,                                    | case status is flawed.                       |

**Consistency Checks (FARS Only) ([See Section 400](#)):**

| <b>Error ID</b> | <b>IF</b>                                                                                                                                       | <b>THEN</b>                                                                                          |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| 3U1P            | DEATH DATE equals CRASH DATE, and CRASH HOUR is not equal to 99,                                                                                | DEATH HOUR must not be less than CRASH HOUR.                                                         |
| 3U2P            | DEATH DATE equals CRASH DATE, and DEATH HOUR equals CRASH HOUR and CRASH MINUTE is not equal to 99,                                             | DEATH MINUTE must not be less than CRASH MINUTE.                                                     |
| 4V1F            | INJURY SEVERITY equals 4,                                                                                                                       | DEATH DATE and DEATH TIME for this person must be within 720 hours of the CRASH DATE and CRASH TIME. |
| A070            | NOTIFICATION TIME EMS is not 8888, 9998, or 9999,                                                                                               | NOTIFICATION TIME EMS should not be more than 120 minutes later than CRASH TIME.                     |
| E09P            | ARRIVAL TIME EMS equals 0000-2359, CRASH TIME-hour equals ARRIVAL TIME EMS-hour, and ARRIVAL TIME EMS-minute is greater than CRASH TIME-minute, | NOTIFICATION TIME EMS-hour should not equal 99.                                                      |
| P520            | CRASH DATE and DEATH DATE are the same, and CRASH TIME and DEATH TIME are the same,                                                             | TRANSPORTED TO FIRST MEDICAL FACILITY BY should equal 0 and DIED AT SCENE/EN ROUTE should equal 7.   |
| P56P            | DIED AT SCENE/EN ROUTE equals 7,                                                                                                                | DEATH TIME should be within 30 minutes of the CRASH TIME.                                            |

## C10 - Trafficway Identifier - FARS Only

**FORMAT:** 2 sets, 30 alphanumeric

**SAS NAME:** Accident.TWAY\_ID, Accident.TWAY\_ID2

### ELEMENT VALUES:

| Codes | Attributes                                                                                      |
|-------|-------------------------------------------------------------------------------------------------|
| --    | Actual Posted Number, Assigned Number, or Common Name (if no posted or assigned number) except: |
| 9s    | Unknown                                                                                         |

**Definition:** This element captures the identity (name) of the trafficway on which the crash occurred.

### Remarks:

#### For Non-Junction Crashes:

Code the TRAFFICWAY IDENTIFIER from the police crash report or highway department in the top row. Leave the bottom row blank.

#### For Intersection Crashes (Not Within an Interchange Area):

Code the TRAFFICWAY IDENTIFIER for the trafficway with the highest function class in the top row. Code the second TRAFFICWAY IDENTIFIER at the intersection, if provided by the police, in the bottom row. If the vehicles are traveling on different roadways of equal class, assign the crash to the roadway on which the motor vehicle precipitating the crash is traveling and record this roadway in the top row.

#### For Intersection-Related Crashes (Not Within an Interchange Area):

Code the TRAFFICWAY IDENTIFIER for the trafficway provided by the police in the top row. This does not necessarily have to be the highest functional class. In all cases, this will be the trafficway where the [FIRST HARMFUL EVENT](#) occurred, or the Unstabilized Situation began. Code the second TRAFFICWAY IDENTIFIER at the intersection, if provided by the police, in the bottom row.

#### For Intersection Crashes Within an Interchange Area:

If the [FIRST HARMFUL EVENT](#) occurs within the intersection of a ramp and the surface roadway:

- Code the TRAFFICWAY IDENTIFIER provided on the police report or highway log in the top row (this does not necessarily have to be the highest function class).
- Code [ROUTE SIGNING](#) for the trafficway in the top row.
- It is important to code the [LAND USE AND FUNCTIONAL SYSTEM](#), [OWNERSHIP](#), and [NATIONAL HIGHWAY SYSTEM](#) for the highest class of trafficway at this intersection.

- Use the bottom row to record the second TRAFFICWAY IDENTIFIER provided by the police for this intersection.

#### **For Intersection-Related Crashes Within an Interchange Area:**

Code the TRAFFICWAY IDENTIFIER for the trafficway provided by the police in the top row. In many cases, this will be the trafficway where the [FIRST HARMFUL EVENT](#) occurred or the Unstabilized Situation began. Code the second TRAFFICWAY IDENTIFIER at the intersection, if provided by the police, in the bottom row.

#### **For Ramp Crashes:**

If the crash occurs on the ramp or is related to the ramp, include the word “RAMP” and/or the ramp ID number after the trafficway’s identifier (e.g., I-10 RAMP).

#### **General Guidelines for Coding Trafficway Identifier:**

This data is obtained from the State Highway Department, or if same as that used by the State Highway Department, from the police crash report. Enter all alphabetic characters with **CAPITAL LETTERS**. If less than 30 characters, left-justify and do not zero-fill.

- Use [standard USPS abbreviations](#) for the street name suffix (ex. AVE, BLVD, CT, FWY). Do not include punctuation at the end of the suffix abbreviation.
- Do not enter the street address where the crash occurred. For example, 245 Elm St. would be entered as ELM ST in **RBIS**.
- Do not enter milepoints here following the trafficway even if provided on the report. Milepoints are entered in the element [MILEPOINT](#).
- Do not enter a cross street referenced by the investigating officer for a **non-junction** crash. For example, if the report states, “the crash occurred on Main Street, 0.6 miles south of Girard Avenue,” Girard Avenue does not go in TRAFFICWAY IDENTIFIER 2. TRAFFICWAY IDENTIFIER 2 is reserved for intersection and intersection-related crashes.
- If a trafficway is known to have both a route identifier and a common name record the route identifier first followed by the common name (Example: State Route 3 is also Indian Head Highway and would be coded as SR-3 INDIAN HEAD HWY).

Obtained from the State Highway Department, or if same as that used by the State Highway Department, from the police crash report.

- If [ROUTE SIGNING](#) is **1 (Interstate)**, you must enter “I-” in the first two spaces of TRAFFICWAY IDENTIFIER.
- If [ROUTE SIGNING](#) is **2 (US Highway)**, you must enter “US-” in the first three spaces of TRAFFICWAY IDENTIFIER.
- If [ROUTE SIGNING](#) is **3 (State Highway)**, you must enter “SR-” in the first three spaces of TRAFFICWAY IDENTIFIER.
- If [ROUTE SIGNING](#) is **4 (County Road)**, you must enter “CR-” in the first three spaces of TRAFFICWAY IDENTIFIER followed by the route number OR name if there is no number.

Immediately after the route designation (I-, US-, or SR-), you should enter the corresponding highway number. For example, Interstate 70 should be coded as “I-70” and US 66 should be coded as “US-66.” You must use a dash in the highway designation between the capital letters and the number.

If one trafficway is both a State Highway and an Interstate Highway, [ROUTE SIGNING](#) must always be coded “1-Interstate.” You should always try to obtain the route number and milepoint that correspond to the Route Signing (Interstate).

- a) If the TRAFFICWAY IDENTIFIER and [MILEPOINT](#) are available for only the State Highway then code [ROUTE SIGNING](#) as **1 (Interstate)**, enter “I-” in the first two spaces of TRAFFICWAY IDENTIFIER followed by the full State Highway Identifier as normal (including any letters.) Code the State Highway Milepoint under the element [MILEPOINT](#).

Example: If California 215 is also Interstate 15, then code “I-SR215” or “I-CA215.”

- b) If the TRAFFICWAY IDENTIFIER and [MILEPOINT](#) are available for both the State Highway and the Interstate Highway, enter “I-” in the first two spaces of TRAFFICWAY IDENTIFIER followed by the Interstate number. You may then also enter the State Highway Identifier anywhere after the Interstate route number. Code the Interstate Milepoint under the element [MILEPOINT](#).

Example: “I-15 SR215” or “I-15 CA215”

Similarly, if a State Highway is also a U.S. Highway, [ROUTE SIGNING](#) must always be coded “2-US Highway.” You should always try to obtain the route number and milepoint that correspond to the Route Signing (US Highway).

- a) If the TRAFFICWAY IDENTIFIER and MILEPOINT are available only for the State Highway, then code [ROUTE SIGNING](#) as **2 (US Highway)**, enter “US-” in the first three spaces of TRAFFICWAY IDENTIFIER followed by the full State Highway Identifier as normal (including any letters). Code the State Highway Milepoint under the element [MILEPOINT](#).

Example:

If Florida Route 25 is also US Route 27, then code “US-SR25” or “US-FL25.”

- b) If the TRAFFICWAY IDENTIFIER and MILEPOINT are available for both the U.S. Highway and the State Highway, enter “US-” in the first three spaces of TRAFFICWAY IDENTIFIER followed by the U.S. route number. You may then also enter the State Highway Identifier anywhere after the U.S. route number. Code the U.S. Route Milepoint under the element [MILEPOINT](#).

Example:

“US-27 SR25” or “US-27 FL25”

### **Overlapping Roadways of Equal Function Class**

For situations where you are presented with a roadway with two equal functional class identifiers for the same roadway, such as a stretch of roadway that is both US-10 and US-25, record both trafficways in TRAFFICWAY IDENTIFIER #1 using the “slash” format. The lower number

trafficway should appear before the slash (e.g., “US-10/25”). This would also apply to Interstates, State, and County roadways with two designations of equal class.

### **Other Land Ways (e.g., alleys, parking lot ways)**

Crashes that occur on **alleys**, parking lot ways, or privately-owned land ways open to the public for transportation will likely not be named in the State Highway Department inventory. If the police provide a name for this trafficway, use that name. If, however, you are provided a street address OR the name of the adjacent trafficway (i.e., not the location where the crash occurred) OR the location information is blank, enter “NONE.”

***Alley: A land way providing vehicular access, in general, as a narrow lane between houses or buildings to the rear of those houses or buildings; some of which may further serve as access to a driveway. This also includes the land ways between or behind buildings that connect several lots to the main trafficway. Alleys are trafficways when they serve this function.***

***Parking Lot: See the [ANSI D 16.1 8th Edition](#), Section 2.5.22 for the definition of Parking Lot, and the included areas of parking stalls, lot aisles, and lot ways. Parking stalls and lot aisles are not trafficways. Parking lot ways in parking lots open to the public are considered trafficways. To be a parking lot way, the paved area should have at least one outlet to another trafficway. In parking lots, features common to other trafficways including crosswalks, traffic controls (signs or signals), and lane lines are indications of a parking lot way.***

### **Consistency Checks ([See Section 400](#)):**

| <b>Error ID</b> | <b>IF</b>                                                                                        | <b>THEN</b>                                                                                             |
|-----------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| 1F1P            | RELATION TO JUNCTION (b) does not equal 02, 03,                                                  | the second TRAFFICWAY IDENTIFIER should be blank.                                                       |
| 340P            | ROUTE SIGNING equals 1,                                                                          | the first position of TRAFFICWAY IDENTIFIER #1 must be “I” and the second position must be “-”.         |
| 341P            | the first position of TRAFFICWAY IDENTIFIER No. 1 equals “I” and the second position equals “-”, | ROUTE SIGNING must equal 1 or 7.                                                                        |
| 350P            | ROUTE SIGNING is 2,                                                                              | the first two positions of TRAFFICWAY IDENTIFIER No. 1 must be “US” and the third position must be “-”. |
| 351P            | the first two positions of TRAFFICWAY IDENTIFIER #1 equals “US” and third position equals “-”,   | ROUTE SIGNING must equal 2 or 7.                                                                        |
| 360P            | ROUTE SIGNING equals 3,                                                                          | the first two positions of TRAFFICWAY IDENTIFIER No. 1 must be “SR” and the third position must be “-”. |
| 361P            | the first two positions of TRAFFICWAY IDENTIFIER #1 equals “SR” and third position equals “-”,   | ROUTE SIGNING must equal 3 or 7.                                                                        |



| <b>Error ID</b> | <b>IF</b>                                             | <b>THEN</b>                                                                                          |
|-----------------|-------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| 362P            | ROUTE SIGNING equals 4,                               | the first two positions of TRAFFICWAY IDENTIFIER #1 must be “CR” and the third position must be “-”. |
| 781P            | TYPE OF INTERSECTION equals 02-07, 10, <b>or 11</b> , | TRAFFICWAY IDENTIFIER (b) should not be blank.                                                       |
| AC0A            | RELATION TO JUNCTION (b) equals 02, 03,               | the second TRAFFICWAY IDENTIFIER should not be all blank.                                            |

## C11 - Route Signing - FARS Only

**FORMAT:** 1 numeric

**SAS NAME:** Accident.ROUTE

**ELEMENT VALUES:**

| Codes | Attributes                   |
|-------|------------------------------|
| 1     | Interstate                   |
| 2     | US Highway                   |
| 3     | State Highway                |
| 4     | County Road                  |
| 5     | Local Street - Township      |
| 6     | Local Street - Municipality  |
| 7     | Local Street - Frontage Road |
| 8     | <a href="#">Other</a>        |
| 9     | Unknown                      |

**Definition:** This element identifies the route signing of the trafficway on which the crash occurred. Code the value that represents the FHWA approved Land Use and Functional System. FHWA classification obtainable from the State Highway Department must be used. No other classification source is acceptable. Refer problems in obtaining the FHWA classification to the State DOT planning office.

**Remarks:** Before coding this element, be certain of which trafficway is to be coded. This element is coded with respect to the trafficway in the top row of [TRAFFICWAY IDENTIFIER](#). If there is any question, refer to the remarks section of TRAFFICWAY IDENTIFIER for a hierarchy for selecting the appropriate trafficway to be coded.

### CODING FRONTAGE ROADS

If the crash occurs on a frontage road that is part of a larger, higher order trafficway (such as Interstate, U.S. Highway, or State Route), use the following guideline to code the highway elements:

- Code [TRAFFICWAY IDENTIFIER](#) and [LAND USE AND FUNCTIONAL SYSTEM](#) (b) for the **01 (Interstate)**, **02 (Principal Arterial - Other Freeways and Expressways)**, or **04 (Minor Arterial)**.
- Code ROUTE SIGNING **7 (Local Street - Frontage Road)**.

Make sure to include the highway designation in TRAFFICWAY IDENTIFIER when using **7 (Local Street - Frontage Road)**. See [TRAFFICWAY IDENTIFIER](#).

If the **Frontage Road** is a separate trafficway, code all highway elements for that trafficway. **Frontage Road** is not used.

**8 (Other)** is used for route signings other than those previously listed and would include **Other Limited Access**, **Other Major Artery**, and crashes that occur on parking lot ways or other privately owned landways open to the public for transportation.

**Consistency Checks** ([See Section 400](#)):

| <b>Error ID</b> | <b>IF</b>                                                                                        | <b>THEN</b>                                                                                             |
|-----------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| 260P            | ROUTE SIGNING equals 1,                                                                          | NATIONAL HIGHWAY SYSTEM must equal 1.                                                                   |
| 320P            | LAND USE AND FUNCTIONAL SYSTEM (b) equals 01, and ROUTE SIGNING does not equal 7,                | NATIONAL HIGHWAY SYSTEM must equal 1.                                                                   |
| 330P            | NATIONAL HIGHWAY SYSTEM equals 0, 9,                                                             | ROUTE SIGNING must not equal 1.                                                                         |
| 340P            | ROUTE SIGNING equals 1,                                                                          | the first position of TRAFFICWAY IDENTIFIER #1 must be "I" and the second position must be "-".         |
| 341P            | the first position of TRAFFICWAY IDENTIFIER No. 1 equals "I" and the second position equals "-", | ROUTE SIGNING must equal 1 or 7.                                                                        |
| 350P            | ROUTE SIGNING is 2,                                                                              | the first two positions of TRAFFICWAY IDENTIFIER No. 1 must be "US" and the third position must be "-". |
| 351P            | the first two positions of TRAFFICWAY IDENTIFIER #1 equals "US" and third position equals "-",   | ROUTE SIGNING must equal 2 or 7.                                                                        |
| 360P            | ROUTE SIGNING equals 3,                                                                          | the first two positions of TRAFFICWAY IDENTIFIER No. 1 must be "SR" and the third position must be "-". |
| 361P            | the first two positions of TRAFFICWAY IDENTIFIER #1 equals "SR" and third position equals "-",   | ROUTE SIGNING must equal 3 or 7.                                                                        |
| 362P            | ROUTE SIGNING equals 4,                                                                          | the first two positions of TRAFFICWAY IDENTIFIER #1 must be "CR" and the third position must be "-".    |
| A280            | ROUTE SIGNING equals 1,                                                                          | SPECIAL JURISDICTION should not equal 1-5, 8, 9.                                                        |
| A290            | ROUTE SIGNING equals 1, and RELATION TO JUNCTION (a) equals 0,                                   | RELATION TO JUNCTION (b) should not equal 02-04, 06, 08, 16.                                            |
| A291            | RELATION TO JUNCTION (b) equals 07,                                                              | ROUTE SIGNING should not equal 5, 6.                                                                    |
| A300            | ROUTE SIGNING equals 1,                                                                          | TRAFFICWAY DESCRIPTION should equal 2, 3, 6 for at least one vehicle.                                   |

| <b>Error ID</b> | <b>IF</b>                                                                                                                     | <b>THEN</b>                                                                                   |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| A310            | ROUTE SIGNING equals 1, and RELATION TO JUNCTION (a) equals 0,                                                                | TOTAL LANES IN ROADWAY should not equal 1 for any vehicle.                                    |
| A320            | ROUTE SIGNING equals 1, and RELATION TO JUNCTION (a) equals 0,                                                                | SPEED LIMIT should not equal 05-40 for any vehicle.                                           |
| A330            | ROUTE SIGNING equals 1, 2,                                                                                                    | ROADWAY SURFACE TYPE should equal 1, 2, 8 for at least one vehicle.                           |
| A350            | ROUTE SIGNING equals 1,                                                                                                       | FIRST HARMFUL EVENT should not equal 10.                                                      |
| A360            | RELATION TO JUNCTION(b) equals 07,                                                                                            | ROUTE SIGNING should not equal 4-8.                                                           |
| A700            | SPEED LIMIT is greater than 65 for every vehicle and STATE NUMBER does not equal 48,                                          | ROUTE SIGNING should equal 1-4.                                                               |
| A820            | FIRST HARMFUL EVENT equals 46, and RELATION TO JUNCTION (a) equals 1, and RELATION TO JUNCTION (b) does not equal 02, 03, 05, | ROUTE SIGNING should not equal 1.                                                             |
| A840            | ROUTE SIGNING equals 7,                                                                                                       | LAND USE AND FUNCTIONAL SYSTEM (b) should equal 01-03.                                        |
| A850            | LAND USE AND FUNCTIONAL SYSTEM (b) equals 02, and ROUTE SIGNING equals 2,                                                     | NATIONAL HIGHWAY SYSTEM should equal 1.                                                       |
| A882            | RELATION TO TRAFFICWAY equals 07,                                                                                             | ROUTE SIGNING should not equal 1.                                                             |
| A920            | NATIONAL HIGHWAY SYSTEM equals 0, 9,                                                                                          | LAND USE AND FUNCTIONAL SYSTEM (b) should not equal 02, and ROUTE SIGNING should not equal 2. |

## C12 - Land Use and Functional System - FARS Only

**FORMAT:** 1 numeric occurring 1 time, 2 numeric occurring 1 time

**SAS NAME:** Accident.RUR\_URB, Accident.FUNC\_SYS

**ELEMENT VALUES:**

### C12a: Land Use

| Codes | Attributes                                        |
|-------|---------------------------------------------------|
| 1     | Rural                                             |
| 2     | Urban                                             |
| 6     | <a href="#">Trafficway Not in State Inventory</a> |
| 8     | <a href="#">Not Reported</a>                      |
| 9     | <a href="#">Unknown</a>                           |

### C12b: Functional System

| Codes | Attributes                                          |
|-------|-----------------------------------------------------|
| 01    | Interstate                                          |
| 02    | Principal Arterial - Other Freeways and Expressways |
| 03    | Principal Arterial - Other                          |
| 04    | Minor Arterial                                      |
| 05    | Major Collector                                     |
| 06    | Minor Collector                                     |
| 07    | Local                                               |
| 96    | <a href="#">Trafficway Not in State Inventory</a>   |
| 98    | <a href="#">Not Reported</a>                        |
| 99    | <a href="#">Unknown</a>                             |

**Definition (Land Use):** The classification of the segment of the trafficway on which the crash occurred based on the Federal Highway Administration (FHWA) approved adjusted Census boundaries of small urban and urbanized areas.

**Definition (Functional System):** This element identifies the functional classification of the segment of the trafficway on which the crash occurred.

**Remarks:** Before coding this element, be certain of which trafficway is to be coded. This element is coded with respect to the trafficway selected in [NATIONAL HIGHWAY SYSTEM](#), [OWNERSHIP](#), [ROUTE SIGNING](#), and in the top row of [TRAFFICWAY IDENTIFIER](#). The exception would be an intersection crash in an interchange. Please see the remarks below and in [TRAFFICWAY IDENTIFIER](#) for a hierarchy for selecting the appropriate trafficway to be coded.

Code the value that represents the FHWA approved Land Use and Functional System. FHWA classification obtainable from the State Highway Department must be used. No other classification source is acceptable. Refer problems in obtaining the FHWA classification to the State DOT planning office.

### ***Land Use:***

**6 (Trafficway Not in State Inventory)** is used when a qualifying motor vehicle traffic crash occurs on a trafficway that is not included in the State highway inventory. Examples include crashes that occur on parking lot ways or other privately owned landways open to the public for transportation.

**8 (Not Reported)** is used when the crash occurred on a reportable trafficway but the information to record LAND USE is missing or unavailable. ***Check to see if 9 (Unknown) is more appropriate for the situation.***

**9 (Unknown)** is used when the crash occurred on a reportable trafficway, but it is unknown if the crash location is within the boundaries of an urban area. If LAND USE is unknown, FUNCTIONAL SYSTEM, [OWNERSHIP](#) and [NATIONAL HIGHWAY SYSTEM](#) can still be coded with known values. For example, it may be known that the crash occurred somewhere along on an interstate. Thus, the trafficway is owned by the State and is part of the NHS. However, it may not be known if the location was within urban boundaries or not.

### ***Functional System:***

**96 (Trafficway Not in State Inventory)** is used when a qualifying motor vehicle traffic crash occurs on a trafficway that is not included in the State highway inventory. Examples include crashes that occur on parking lot ways or other privately owned landways open to the public for transportation.

**98 (Not Reported)** is used when the crash occurred on a reportable trafficway but the information to record FUNCTIONAL SYSTEM is missing or unavailable. ***Check to see if 99 (Unknown) is more appropriate for the situation.***

**99 (Unknown)** is used when the crash occurred on a reportable trafficway, but the functional classification of the segment of the trafficway on which the crash occurred can't be determined or the applicable segment can't be determined. If FUNCTIONAL SYSTEM is unknown, LAND USE, [OWNERSHIP](#) and [NATIONAL HIGHWAY SYSTEM](#) can still be coded with a known value. For example, it may be known that the crash occurred within or outside urban boundaries (LAND USE). However, the trafficway may change classification along its length and the segment of the trafficway on which the crash occurred may not be known.

### **NON-JUNCTION CRASHES**

Assign the crash to the trafficway on which the [FIRST HARMFUL EVENT](#) occurred. If the FIRST HARMFUL EVENT occurred on private property, assign the crash to the trafficway on which the vehicle was traveling when the Unstabilized Situation began.

## INTERSECTION CRASHES (Not Within an Interchange)

In an at-intersection crash, assign the crash to the highest function class of trafficway at the intersection. If the vehicles are traveling on different roadways of equal class, assign the crash to the roadway on which the motor vehicle precipitating the crash is traveling.

## INTERSECTION CRASHES (Within an Interchange)

Interchange crashes that occur in an intersection of a ramp that connects a higher and a lower class trafficway should be assigned to the highest-class trafficway. For example: vehicle #1 strikes vehicle #2 in the intersection of the I-270 ramp and US-10. Code FUNCTIONAL SYSTEM as **01 (Interstate)**.

Ramps are part of the highest class of trafficway to which they connect. Therefore, if a crash occurs on a ramp, including in the merge/diverge lanes, and it is not an Intersection crash, it is assigned to the highest class of trafficway to which the ramp connects. Example: vehicle #1 overturns on the ramp of I-270 and US-10. Code FUNCTIONAL SYSTEM **01 (Interstate)**. This includes intersection-related and entrance/exit ramp related crashes for [RELATION TO JUNCTION](#).

## OTHER CRASHES (Within an Interchange)

For other crashes that occur within an interchange, other than intersection crashes, code FUNCTIONAL SYSTEM for the trafficway on which the vehicles were traveling. Example, vehicle #1 strikes vehicle #2 on US-10 bridge within the I-270 interchange (not in the intersection of any ramp, or on any ramp). Code FUNCTIONAL SYSTEM for US-10 and not I-270.

## QUESTIONABLE CASES

In any questionable case, the higher function class takes precedence.

### Consistency Checks ([See Section 400](#)):

| Error ID | IF                                                                                | THEN                                                                                                                               |
|----------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| 1T0P     | SPEED LIMIT for every vehicle is greater than 55, and not equal to 98 or 99,      | LAND USE AND FUNCTIONAL SYSTEM (a) should not equal 2 or 6, and LAND USE AND FUNCTIONAL SYSTEM (b) should not equal 06, 07, or 96. |
| 300P     | NATIONAL HIGHWAY SYSTEM equals 0, 9,                                              | LAND USE AND FUNCTIONAL SYSTEM (b) must not equal 01.                                                                              |
| 320P     | LAND USE AND FUNCTIONAL SYSTEM (b) equals 01, and ROUTE SIGNING does not equal 7, | NATIONAL HIGHWAY SYSTEM must equal 1.                                                                                              |
| A110     | FIRST HARMFUL EVENT equals 10,                                                    | LAND USE AND FUNCTIONAL SYSTEM (b) should not equal 01-03.                                                                         |
| A11A     | FUNCTIONAL SYSTEM (b) equals 01,                                                  | OWNERSHIP must equal 01 or 31.                                                                                                     |
| A12A     | either FUNCTIONAL SYSTEM (b) or OWNERSHIP equals 96,                              | both must equal 96.                                                                                                                |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                       | <b>THEN</b>                                                                                         |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| A13A            | LAND USE (a) equals 6,                                                                                                                          | FUNCTIONAL SYSTEM (b) must equal 96.                                                                |
| A14A            | FUNCTIONAL SYSTEM (b) equals 96,                                                                                                                | LAND USE a must equal 6.                                                                            |
| A150            | LAND USE AND FUNCTIONAL SYSTEM (b) equals 01, 02, and RELATION TO JUNCTION (a) equals 0,                                                        | RELATION TO JUNCTION (b) should not equal 02-04, 06, 08.                                            |
| A15A            | FUNCTIONAL SYSTEM (b) equals 99,                                                                                                                | LAND USE (a) should equal 9, OWNERSHIP should equal 99, and NATIONAL HIGHWAY SYSTEM should equal 9. |
| A160            | LAND USE AND FUNCTIONAL SYSTEM (b) equals 01-06,                                                                                                | ROADWAY SURFACE TYPE should equal 1, 2, 8, or 9 for at least one vehicle.                           |
| <b>A16A</b>     | <b><i>FUNCTIONAL SYSTEM equals 1, and STATE does not equal 02, and RELATION TO JUNCTION equals 01, 07, 18, or 19,</i></b>                       | <b><i>TRAFFICWAY DESCRIPTION should equal 2 or 3.</i></b>                                           |
| A170            | ROADWAY SURFACE TYPE equals 3-5 for every vehicle,                                                                                              | LAND USE AND FUNCTIONAL SYSTEM (b) should not equal 01-06.                                          |
| A180            | LAND USE AND FUNCTIONAL SYSTEM (b) equals 01,                                                                                                   | SPECIAL JURISDICTION should not equal 1-5, 8, 9.                                                    |
| A190            | LAND USE AND FUNCTIONAL SYSTEM (b) equals 02,                                                                                                   | SPECIAL JURISDICTION should not equal 4.                                                            |
| A200            | RELATION TO JUNCTION (b) equals 07,                                                                                                             | LAND USE AND FUNCTIONAL SYSTEM (b) should not equal 06, 07, or 96.                                  |
| A210            | LAND USE AND FUNCTIONAL SYSTEM (b) equals 01, 02, and RELATION TO JUNCTION (a) equals 0,                                                        | TRAFFIC CONTROL DEVICE should not equal 01-04, 07, 20, 23, 40, 50, 65.                              |
| A220            | LAND USE AND FUNCTIONAL SYSTEM (b) equals 01, 02, and RELATION TO JUNCTION (a) equals 0,                                                        | SPEED LIMIT should not equal 05-40 for any vehicle.                                                 |
| A230            | SEQUENCE OF EVENTS equals 10,                                                                                                                   | LAND USE AND FUNCTIONAL SYSTEM (b) should not equal 01-03.                                          |
| A240            | LAND USE AND FUNCTIONAL SYSTEM (b) equals 01, and RELATION TO JUNCTION (a) equals 0,                                                            | TRAVEL SPEED should not equal 005-040 for any vehicle.                                              |
| A250            | LAND USE AND FUNCTIONAL SYSTEM (b) equals 01-03, and RELATION TO JUNCTION (a) equals 1, and RELATION TO JUNCTION (b) does not equal 03, 05, 20, | TOTAL LANES IN ROADWAY should not equal 1 for the vehicles involved in the FIRST HARMFUL EVENT.     |
| A720            | LAND USE AND FUNCTIONAL SYSTEM (b) equals 01, 02,                                                                                               | TRAFFICWAY DESCRIPTION should equal 2, 3, 6 for at least one vehicle.                               |



| <b>Error ID</b> | <b>IF</b>                                                                                                                              | <b>THEN</b>                                                                                         |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| A810            | FIRST HARMFUL EVENT equals 46, and<br>RELATION TO JUNCTION (a) equals 1, and<br>RELATION TO JUNCTION (b) does not equal<br>02, 03, 05, | LAND USE AND FUNCTIONAL SYSTEM<br>(b) should not equal 01.                                          |
| A840            | ROUTE SIGNING equals 7,                                                                                                                | LAND USE AND FUNCTIONAL SYSTEM<br>(b) should equal 01-03.                                           |
| A850            | LAND USE AND FUNCTIONAL SYSTEM (b)<br>equals 02, and ROUTE SIGNING equals 2,                                                           | NATIONAL HIGHWAY SYSTEM should<br>equal 1.                                                          |
| A860            | NATIONAL HIGHWAY SYSTEM equals 1,                                                                                                      | LAND USE AND FUNCTIONAL SYSTEM<br>(b) should equal 01-03.                                           |
| A883            | RELATION TO TRAFFICWAY equals 07,                                                                                                      | LAND USE AND FUNCTIONAL SYSTEM<br>(b) should not equal 01.                                          |
| A900            | SPEED LIMIT equals 60 <b>or</b> 65 for every<br>vehicle and STATE NUMBER does not equal<br><b>20 or 48</b> ,                           | LAND USE AND FUNCTIONAL SYSTEM<br>(b) should not equal 04-07 or 96.                                 |
| A910            | LAND USE AND FUNCTIONAL SYSTEM<br>(b) equals 04-07 or 96,                                                                              | NATIONAL HIGHWAY SYSTEM should<br>equal 0, 9.                                                       |
| A920            | NATIONAL HIGHWAY SYSTEM equals 0,<br>9,                                                                                                | LAND USE AND FUNCTIONAL SYSTEM<br>(b) should not equal 02, and ROUTE SIGNING<br>should not equal 2. |
| U684            | UNLIKELY: LAND USE (a) equals 8.                                                                                                       | --                                                                                                  |
| U685            | UNLIKELY: FUNCTIONAL SYSTEM (b) equals 98.                                                                                             | --                                                                                                  |
| U686            | UNLIKELY: LAND USE and FUNCTIONAL<br>SYSTEM (a/b) equals 9, 99.                                                                        | --                                                                                                  |

**C13 - Ownership - FARS Only****FORMAT:** 2 numeric**SAS NAME:** Accident.RD\_OWNER**ELEMENT VALUES:**

| Codes | Attributes                                        |
|-------|---------------------------------------------------|
| 01    | State Highway Agency                              |
| 02    | County Highway Agency                             |
| 03    | Town or Township Highway Agency                   |
| 04    | City or Municipal Highway Agency                  |
| 11    | State Park, Forest, or Reservation Agency         |
| 12    | Local Park, Forest, or Reservation Agency         |
| 21    | Other State Agency                                |
| 25    | Other Local Agency                                |
| 26    | Private (other than RailRoad)                     |
| 27    | Railroad                                          |
| 31    | State Toll Road                                   |
| 32    | Local Toll Authority                              |
| 40    | Other Public Instrumentality (i.e., Airport)      |
| 50    | Indian Tribe Nation                               |
| 60    | Other Federal Agency                              |
| 62    | Bureau of Indian Affairs                          |
| 63    | Bureau of Fish and Wildlife                       |
| 64    | US Forest Service                                 |
| 66    | National Park Service                             |
| 67    | Tennessee Valley Authority                        |
| 68    | Bureau of Land Management                         |
| 69    | Bureau of Reclamation                             |
| 70    | Corps of Engineers                                |
| 72    | Air Force                                         |
| 74    | Navy/Marines                                      |
| 80    | Army                                              |
| 96    | <a href="#">Trafficway Not in State Inventory</a> |
| 98    | <a href="#">Not Reported</a>                      |
| 99    | <a href="#">Unknown</a>                           |

**Definition:** This element identifies the entity that has legal ownership of the segment of the trafficway on which the crash occurred.

**Remarks:** Before coding this element, be certain of which trafficway is to be coded. This element is coded with respect to the trafficway selected in [NATIONAL HIGHWAY SYSTEM](#), [LAND USE AND FUNCTIONAL SYSTEM](#), [ROUTE SIGNING](#), and in the top row of [TRAFFICWAY IDENTIFIER](#). The exception would be an intersection crash in an interchange. Please see the remarks section of TRAFFICWAY IDENTIFIER for a hierarchy for selecting the appropriate trafficway to be coded.

Code the level of government that best represents the highway owner irrespective of whether agreements exist for maintenance or other purposes.

- “State” means owned by one of the 50 States, the District of Columbia, or the Commonwealth of Puerto Rico including quasi-official State commissions or organizations;
- “County, local, municipal, town, or township” means owned by one of the officially recognized governments established under State authority;
- “Federal” means owned by one of the branches of the U.S. Government or independent establishments, government corporations, quasi-official agencies, organizations, or instrumentalities;
- “Other” means any other group not already described above or nongovernmental organizations with the authority to build, operate, or maintain toll or free highway facilities.
- Only private roads that are open to public travel (e.g., toll bridges) are to be reported in HPMS.

**96 (Trafficway Not in State Inventory)** is used when a qualifying motor vehicle traffic crash occurs on a trafficway that is not included in the State highway inventory. Examples include crashes that occur on parking lot ways or other privately owned landways open to the public for transportation.

**98 (Not Reported)** is used when the crash occurred on a reportable trafficway but the information to record OWNERSHIP is missing or unavailable. *Check to see if 99 (Unknown) is more appropriate for the situation.*

**99 (Unknown)** is used when the crash occurred on a reportable trafficway, but it can’t be determined which entity has legal ownership of the segment of the trafficway on which the crash occurred or the applicable segment can’t be determined. If OWNERSHIP is unknown, [LAND USE and FUNCTIONAL SYSTEM](#) and [NATIONAL HIGHWAY SYSTEM](#) can still be coded with known values. For example, it may be known that the crash occurred in an urban area on a minor collector that is not part of the NHS. However, the location detail may not be sufficient to determine OWNERSHIP (e.g., **03 (Town or Township Highway Agency)** or **04 (City or Municipal Highway Agency)**).

Federal Highway Administration classification obtainable from the State Highway Department must be used.

No other classification source is acceptable. Refer problems in obtaining the FHWA classification to the State DOT planning office.

**Consistency Checks** ([See Section 400](#)):

| <b>Error ID</b> | <b>IF</b>                                                                     | <b>THEN</b>                                                                                         |
|-----------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| A11A            | FUNCTIONAL SYSTEM (b) equals 01,                                              | OWNERSHIP must equal 01 or 31.                                                                      |
| A12A            | either FUNCTIONAL SYSTEM (b) or OWNERSHIP equals 96,                          | both must equal 96.                                                                                 |
| A15A            | FUNCTIONAL SYSTEM (b) equals 99,                                              | LAND USE (a) should equal 9, OWNERSHIP should equal 99, and NATIONAL HIGHWAY SYSTEM should equal 9. |
| U683            | UNLIKELY: OWNERSHIP equals 98 or 99 unless STATE equals <b>06, 12, or</b> 48. | --                                                                                                  |

## C14 - National Highway System - FARS Only

**FORMAT:** 1 numeric

**SAS NAME:** Accident.NHS

**ELEMENT VALUES:**

| Codes | Attributes                            |
|-------|---------------------------------------|
| 0     | This section IS NOT on the NHS        |
| 1     | This section IS ON the NHS            |
| 9     | Unknown if this section is on the NHS |

**Definition:** This element identifies whether or not this crash occurred on a trafficway that is part of the National Highway System.

**Remarks:** The National Highway System includes the Interstate System and consists of principal arterial system routes and some Strategic Highway Network connectors functionally classified below principal arterial.

Federal Highway Administration classification obtainable from the State Highway Department must be used. No other classification source is acceptable. Refer problems in obtaining the FHWA classification to Regional State Assignee.

**Consistency Checks** ([See Section 400](#)):

| Error ID | IF                                                                                | THEN                                                                                                |
|----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| 260P     | ROUTE SIGNING equals 1,                                                           | NATIONAL HIGHWAY SYSTEM must equal 1.                                                               |
| 300P     | NATIONAL HIGHWAY SYSTEM equals 0, 9,                                              | LAND USE AND FUNCTIONAL SYSTEM (b) must not equal 01.                                               |
| 320P     | LAND USE AND FUNCTIONAL SYSTEM (b) equals 01, and ROUTE SIGNING does not equal 7, | NATIONAL HIGHWAY SYSTEM must equal 1.                                                               |
| 330P     | NATIONAL HIGHWAY SYSTEM equals 0, 9,                                              | ROUTE SIGNING must not equal 1.                                                                     |
| A15A     | FUNCTIONAL SYSTEM (b) equals 99,                                                  | LAND USE (a) should equal 9, OWNERSHIP should equal 99, and NATIONAL HIGHWAY SYSTEM should equal 9. |
| A850     | LAND USE AND FUNCTIONAL SYSTEM (b) equals 02, and ROUTE SIGNING equals 2,         | NATIONAL HIGHWAY SYSTEM should equal 1.                                                             |
| A860     | NATIONAL HIGHWAY SYSTEM equals 1,                                                 | LAND USE AND FUNCTIONAL SYSTEM (b) should equal 01-03.                                              |
| A910     | LAND USE AND FUNCTIONAL SYSTEM (b) equals 04-07 or 96,                            | NATIONAL HIGHWAY SYSTEM should equal 0, 9.                                                          |

| <b>Error ID</b> | <b>IF</b>                            | <b>THEN</b>                                                                                   |
|-----------------|--------------------------------------|-----------------------------------------------------------------------------------------------|
| A920            | NATIONAL HIGHWAY SYSTEM equals 0, 9, | LAND USE AND FUNCTIONAL SYSTEM (b) should not equal 02, and ROUTE SIGNING should not equal 2. |

## C15 - Special Jurisdiction - FARS Only

**FORMAT:** 1 numeric

**SAS NAME:** Accident.SP\_JUR

### ELEMENT VALUES:

| Codes | Attributes                 |
|-------|----------------------------|
| 0     | No Special Jurisdiction    |
| 1     | National Park Service      |
| 2     | Military                   |
| 3     | Indian Reservation         |
| 4     | College/University Campus* |
| 5     | Other Federal Properties*  |
| 8     | Other                      |
| 9     | Unknown                    |

**Definition:** This element identifies if the location on the trafficway where the crash occurred qualifies as a Special Jurisdiction even though it may be patrolled by State, county, or local police (e.g., all State highways running through Indian reservations are under the jurisdiction of the Indian reservation).

**Remarks:** Road must be under the regulation of Special Jurisdiction, although it may be patrolled by State, county, or local police forces.

There is a difference between a National Park and National Forest. Only areas described as National Parks should be **1 (National Park Service)**. State parks should be coded as **8 (Other)**, and National Forests should be coded as **0 (No Special Jurisdiction)**.

State highways running through Indian Reservations must be coded as **3 (Indian Reservation)**.

**\* These values are unlikely occurrences and will raise an error flag.**

### Consistency Checks ([See Section 400](#)):

| Error ID | IF                                            | THEN                                             |
|----------|-----------------------------------------------|--------------------------------------------------|
| A180     | LAND USE AND FUNCTIONAL SYSTEM (b) equals 01, | SPECIAL JURISDICTION should not equal 1-5, 8, 9. |
| A190     | LAND USE AND FUNCTIONAL SYSTEM (b) equals 02, | SPECIAL JURISDICTION should not equal 4.         |
| A280     | ROUTE SIGNING equals 1,                       | SPECIAL JURISDICTION should not equal 1-5, 8, 9. |
| U010     | UNLIKELY: SPECIAL JURISDICTION equals 4 or 5. | --                                               |

## C16 - Milepoint - FARS Only

**FORMAT:** 5 numeric

**SAS NAME:** Accident.MILEPT

### ELEMENT VALUES:

| Codes  | Attributes                   |
|--------|------------------------------|
| 0000.0 | None                         |
| --     | Actual to Nearest Tenth Mile |
| 9999.8 | <a href="#">Not Reported</a> |
| 9999.9 | Unknown                      |

**Definition:** This element identifies the milepoint nearest to the location where the crash occurred.

**Remarks:** Refer to the remarks section under [LAND USE AND FUNCTIONAL SYSTEM](#) for the hierarchy of selecting the trafficway to be coded.

Code the MILEPOINT for the respective [TRAFFICWAY IDENTIFIER](#). For crashes that occur on entrance or exit ramps use the milepoint associated with the ramp location with respect to the trafficway to which it belongs. When transitioning between two trafficways of equal functional class choose the milepoint of the exiting trafficway.

Obtained from the State Highway Department. Code the actual Milepoint to the nearest .1 mile with decimal. Right justify if less than 5 digits. For example, if Milepoint is 10, you must code "0010.0."

### The Difference Between Mile POINTS and Mile POSTS:

Mile POINTS make up the length of a road. They are part of a State's official Linear Referencing System (LRS). Mile points are measurements of the road and are expressed in decimal format. This LRS is used for the State's official Trafficway Asset Management. This information can come ONLY from a State's DOT out of their official Roadway Inventory, Roadlog, or other Roadway information collection system; because, the physical mile POST may or may not align with the LRS mile POINT.

The Mile POST (sometimes called Mile Markers or Mile Post Markers) is the physical, numerical marker located on the roadside. This is typically the information located on police crash reports, as law enforcement frequently refer to the mile posts or mile markers when describing the location of an incident. **DO NOT CODE THE MILE POST.**

**9999.8 (Not Reported)** is used when the information to record MILEPOINT is not applicable, missing, or unavailable. ***Check to see if 0000.0 (None) or 9999.9 (Unknown) are more appropriate for the situation.***



Consistency Checks [\(See Section 400\)](#):

| <b>Error ID</b> | <b>IF</b>                                   | <b>THEN</b> |
|-----------------|---------------------------------------------|-------------|
| U740            | UNLIKELY: MILEPOINT is greater than 0500.0. | --          |

## C17 - Global Position

**FORMAT:** 8 numeric, 9 numeric

**SAS NAME:** Accident.LATITUDE, Accident.LONGITUD

**ELEMENT VALUES:**

| Codes | Attributes                                         |
|-------|----------------------------------------------------|
| --    | Latitude (dd.mm.ss.ss) (degrees/minutes/seconds)   |
| --    | Longitude (ddd.mm.ss.ss) (degrees/minutes/seconds) |
| 7s    | <a href="#">Not Reported</a>                       |
| 8s    | Not Available                                      |
| 9s    | <a href="#">Reported as Unknown</a>                |

**Definition:** This element identifies the location of the crash using Global Position coordinates.

**Remarks:** “Global Position” refers to the geographic location of the crash. It is expressed in Degrees, Minutes, and Seconds of **Latitude**; and Degrees, Minutes, and Seconds of **Longitude**:

**Latitude:** dd mm ss.ss (Degrees/Minutes/Seconds)

**Longitude:** ddd mm ss.ss (Degrees/Minutes/Seconds)

In some instances, your source documents may display Longitude as a negative (-) number. You may disregard the minus (-) sign. ***Code the complete valid Latitude and Longitude if available, if not blank, and if not unknown. You must code valid Latitude or Longitude minutes and seconds when coding a valid value for Latitude or Longitude degrees (for example: Latitude - 38 99 99.99 is invalid).***

**Right-Justify Degrees and Minutes:**

Note that **Longitude** Degrees can be up to three digits. Code Degrees less than three digits in the right-most positions and “0s” to the left. Code **Latitude** or **Longitude** Minutes less than two digits in the right-most position with “0s” to the left. Examples: Longitude “77 degrees - 7 minutes - no seconds” is coded 077 07 00.00; Longitude “80 degrees - no minutes - no seconds” is coded 080 00 00.00; Latitude “30 degrees - one minute - 30 seconds” is coded 30 01 30.00.

**Latitude and Longitude Seconds:**

Code the value of **Latitude** or **Longitude** Seconds to two significant places after the decimal. If the **Latitude** or **Longitude** Seconds precision is less than two decimal positions, enter “0s” in the right-most positions of Seconds. Always right-justify any data before the decimal point with added “0s” to the left (e.g., 5.1 seconds is 05.10 with no spaces before the decimal point).

***A Geo-locator tool is available on RBIS to assist generating latitude and longitude when they are not available on the crash report or through State sources.***

**7s (Not Reported)**

If a State’s crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered “**Not Reported.**” ***Check to see if 8s (Not Available) or [9s \(Reported as Unknown\)](#) is more appropriate for the situation.***

Code **7s (Not Reported)** in these two situations:

1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

**9s (Reported as Unknown)** is selected if the investigating officer reported that the global position of the crash was not known.

#### **FARS SPECIAL INSTRUCTION:**

The State police crash report may include the geographic location in a format compatible with this element, or the State Highway Department may be able to provide it from a State Geographic Information System (GIS) or Global Positioning System (GPS).

#### **CRSS SPECIAL INSTRUCTION:**

*Use location information provided on the crash report to pinpoint the crash location according to the Geolocator tool instructions. If the crash report does not provide enough information to pinpoint the location with the Geolocator tool, code as 7s (Not Reported).*

**Consistency Checks** [\(See Section 400\)](#):

| <b>Error ID</b> | <b>IF</b>                                                                              | <b>THEN</b>                                                                                                                          |
|-----------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| G01P            | STATE is ____ and GLOBAL POSITION - LATITUDE (degrees) is not equal to 77, 88, 99,     | LATITUDE (degrees) must be equal to, or greater than ( <u>1d</u> ), and LATITUDE (degrees) must not be greater than ( <u>2d</u> ).   |
| G02P            | STATE is ____, and GLOBAL POSITION - LATITUDE (degrees) equals ( <u>1d</u> ),          | LATITUDE (minutes) must be equal to, or greater than ( <u>1s</u> ).                                                                  |
| G03P            | STATE is ____, and GLOBAL POSITION - LATITUDE (degrees) equals ( <u>2d</u> ),          | LATITUDE (minutes) must not be greater than ( <u>2s</u> ).                                                                           |
| G04P            | STATE is ____ and GLOBAL POSITION - LONGITUDE (degrees) is not equal to 777, 888, 999, | LONGITUDE (degrees) must be equal to, or greater than ( <u>3d</u> ), and LONGITUDE (degrees) must not be greater than ( <u>4d</u> ). |
| G05P            | STATE is ____, and GLOBAL POSITION - LONGITUDE (degrees) equals ( <u>3d</u> ),         | LONGITUDE (minutes) must be equal to, or greater than ( <u>3s</u> ).                                                                 |
| G06P            | STATE is ____, and GLOBAL POSITION - LONGITUDE (degrees) equals ( <u>4d</u> ),         | LONGITUDE (minutes) must not be greater than ( <u>4s</u> ).                                                                          |
| G07P            | any part of GLOBAL POSITION - LATITUDE (degrees, minutes, or seconds) is all 8s,       | all parts of LATITUDE must be all 8s.                                                                                                |

| <b>Error ID</b> | <b>IF</b>                                                                         | <b>THEN</b>                            |
|-----------------|-----------------------------------------------------------------------------------|----------------------------------------|
| G08P            | any part of GLOBAL POSITION - LONGITUDE (degrees, minutes, or seconds) is all 8s, | all parts of LONGITUDE must be all 8s. |
| G09P            | any part of GLOBAL POSITION - LATITUDE (degrees, minutes, or seconds) is all 9s,  | all parts of LATITUDE must be all 9s.  |
| G0AP            | any part of GLOBAL POSITION - LONGITUDE (degrees, minutes, or seconds) is all 7s, | all parts of LONGITUDE must be all 7s. |
| G0BP            | any part of GLOBAL POSITION - LATITUDE (degrees, minutes, or seconds) is all 7s,  | all parts of LATITUDE must be all 7s.  |
| G10P            | any part of GLOBAL POSITION - LONGITUDE (degrees, minutes, or seconds) is all 9s, | all parts of LONGITUDE must be all 9s. |
| G11P            | any part of GLOBAL POSITION - LATITUDE (degrees, minutes, or seconds) is blank,   | all parts of LATITUDE must be blank.   |
| G12P            | any part of GLOBAL POSITION - LONGITUDE (degrees, minutes, or seconds) is blank,  | all parts of LONGITUDE must be blank.  |

## C18 - Crash Events

**FORMAT:** *Elements* Completed in **RBIS**

**SAS NAME:** (See Below)

**Definition:** The Crash Events table records in chronological sequence, the set of events resulting from an unstabilized situation that constitutes a motor vehicle traffic crash.

**Remarks:** The “crash” is concluded in time when all events that originate from the unstabilized situation are stabilized. The Crash Events table is designed to provide a coded description of all qualifying events that occurred in the crash.

With this coded chronological sequence of qualified crash events, traffic safety analysts can review the entire series of events involving in-transport motor vehicles. Various areas of concern to the highway safety community can be easily assessed using this data. For instance, the injury severity in crashes can be assessed relative to the number and type of impacts involved. Likewise, certain collision configurations that may create a greater hazardous condition for the occupants can be identified. Other possible areas of analysis would be the mix of vehicles sizes or the types of objects the different classes of vehicles impact.

To complete the Crash Events table, each event for each vehicle is recorded in the order in which they occur, timewise, based on the description of the crash from the crash report narrative, diagram, or other relevant case material. Crash Events includes both harmful and non-harmful events that occur in the crash. Recording of Crash Events ends at the last harmful event of the entire crash. Therefore, a non-harmful event (e.g., Crossing the Centerline) that occurs following the last harmful event of the crash will not be included.

The Crash Events table is completed based on the actions of the in-transport motor vehicle(s) in the case. Consequently, other involved traffic units (parked motor vehicle, working motor vehicle, pedestrian, etc.) are only identified in the events for the in-transport motor vehicle that contacted it. If the crash report includes an event that involves only not in-transport motor vehicles and/or non-motorists, that specific event is not entered as an event in the coded crash sequence. Examples Include:

- Not in-transport vehicle impacts pedestrian, other not in-transport vehicle, or fixed object.
- Pedestrian or pedalcyclist impacts an object, a not in-transport vehicle, other non-motorist.

See the [Coding Guide: Crash Events Table, Vehicle Placement](#) for helpful information.

**\*Note:** Data recorded in the Crash Events table is used to derive the following data elements:

- [FIRST HARMFUL EVENT \(FHE\)](#) - the first injury or damage producing event in each crash.
- [AREAS OF IMPACT - Initial \(AOI - Initial\)](#) - the first Areas of Impact value for each vehicle.
- [SEQUENCE OF EVENTS \(SOE\)](#) - all events (harmful and non-harmful) associated with each in-transport motor vehicle in the table.

For items identified in a “damaged property” section on the report, include all items listed associated with the applicable vehicle in the best order that can be determined. If the actual order cannot be determined, use the listed order of items. In a multi-vehicle crash, if it cannot be determined which vehicle is associated with the damaged property listed, assign these items to the vehicle most likely to be associated with this property. If this cannot be established, omit these events.

### C18 Crash Events Table Columns

| Vehicle Number<br>(This Vehicle) | Areas of Impact<br>(This Vehicle) | Sequence of<br>Events (SOE) | Vehicle Number<br>(Other Vehicle) | Areas of Impact<br>(Other Vehicle) |
|----------------------------------|-----------------------------------|-----------------------------|-----------------------------------|------------------------------------|
|----------------------------------|-----------------------------------|-----------------------------|-----------------------------------|------------------------------------|

#### **Event Number**

**FORMAT:** *Element* Completed in **RBIS**

**SAS NAME:** Cevent.EVENTNUM, Vevent.EVENTNUM

#### **ELEMENT VALUES:**

| Codes   | Attributes    |
|---------|---------------|
| 001-999 | Actual Number |

**Remarks:** This is a computer assigned number beginning with “001.” The event number(s) show the chronological sequence of the qualifying harmful and non-harmful events in the crash. Qualifying events are those that involve an in-transport motor vehicle or an object set in motion by an in-transport motor vehicle.

In the **RBIS** this will be the row position and not displayed as a column in the entry table.

#### **Vehicle Number (This Vehicle)**

**FORMAT:** *Element* Completed in **RBIS**

**SAS NAME:** Cevent.VNUMBER1, Vevent.VNUMBER1

#### **ELEMENT VALUES:**

| Codes   | Attributes    |
|---------|---------------|
| 001-999 | Actual Number |

**Remarks:** Enter the number of the in-transport motor vehicle associated with the event in the SEQUENCE OF EVENTS column of the Crash Events Table. Vehicles are assigned the police crash report’s vehicle number unless a vehicle number from the police crash report is not used in the case (e.g., non-contact vehicle). **See the [Coding Guide: Crash Events Table, Vehicle Placement](#) for helpful information.**

### Areas of Impact (This Vehicle)

**FORMAT:** *Element* Completed in **RBIS**

**SAS NAME:** Cevent.AOI1, Vevent.AOI1

**ELEMENT VALUES:** \*

| Codes | Attributes                                                                    |
|-------|-------------------------------------------------------------------------------|
| 00    | <a href="#">Non-Collision</a>                                                 |
| 01-12 | <a href="#">Clock Points</a>                                                  |
| 13    | <a href="#">Top</a>                                                           |
| 14    | <a href="#">Undercarriage</a>                                                 |
| 61    | <a href="#">Left</a>                                                          |
| 62    | <a href="#">Left-Front Side</a>                                               |
| 63    | <a href="#">Left-Back Side</a>                                                |
| 81    | <a href="#">Right</a>                                                         |
| 82    | <a href="#">Right-Front Side</a>                                              |
| 83    | <a href="#">Right-Back Side</a>                                               |
| 18    | <a href="#">Cargo/Vehicle Parts Set in Motion</a>                             |
| 19    | <a href="#">Other Objects or Person Set in Motion</a>                         |
| 20    | <a href="#">Object Set in Motion, Unknown if Cargo/Vehicle Parts or Other</a> |
| 98    | <a href="#">Not Reported</a>                                                  |
| 99    | <a href="#">Reported as Unknown</a>                                           |

**Remarks:** Identifies the contact point (if applicable) for the vehicle coded in Vehicle Number (This Vehicle) associated with this event. If the event is a Collision event, code the value that identifies the impact area or indicates this vehicle set an object in motion. If the event is a Non-Collision *Harmful* event, use the attribute **00 (Non-Collision)**. If the event is a [Non-Harmful event](#), then skip entry of an AREAS OF IMPACT (This Vehicle) value for that event.

This field uses the same values and Remarks as the Vehicle Level data element [AREAS OF IMPACT - Initial Contact Point](#). The Vehicle Level data element AREAS OF IMPACT - Initial Contact Point is derived from the Crash Events Table and will always be the first recorded AREA OF IMPACT value for each vehicle in the table. See the [Coding Guide: Vehicle Components and Areas of Impact](#) for helpful information.

### Sequence of Events

**FORMAT:** *Element* Completed in *RBIS*

**SAS NAME:** Cevent.SOE, Vevent.SOE

**ELEMENT VALUES:**

#### **Non-Harmful Events:**

| Codes | Attributes                                                          |
|-------|---------------------------------------------------------------------|
| 61    | <a href="#">Equipment Failure (blown tire, brake failure, etc.)</a> |
| 62    | <a href="#">Separation of Units</a>                                 |
| 63    | <a href="#">Ran Off Roadway-Right</a>                               |
| 64    | <a href="#">Ran Off Roadway-Left</a>                                |
| 79    | <a href="#">Ran off Roadway - Direction Unknown</a>                 |
| 71    | <a href="#">End Departure</a>                                       |
| 65    | <a href="#">Cross Median</a>                                        |
| 68    | <a href="#">Cross Centerline</a>                                    |
| 66    | <a href="#">Downhill Runaway</a>                                    |
| 67    | <a href="#">Vehicle Went Airborne</a>                               |
| 69    | <a href="#">Re-entering Roadway</a>                                 |
| 70    | <a href="#">Non-harmful, Swaying Trailer/Jackknife</a>              |
| 60    | <a href="#">Cargo/Equipment Loss or Shift (non-harmful)</a>         |

#### **Non-Collision Harmful Events:**

| Codes | Attributes                                                                   |
|-------|------------------------------------------------------------------------------|
| 01    | <a href="#">Rollover/Overtake</a>                                            |
| 02    | <a href="#">Fire/Explosion</a>                                               |
| 03    | <a href="#">Immersion or Partial Immersion</a>                               |
| 04    | <a href="#">Gas Inhalation</a>                                               |
| 51    | <a href="#">Jackknife (harmful to this vehicle)</a>                          |
| 06    | <a href="#">Injured in Vehicle (Non-Collision)</a>                           |
| 44    | <a href="#">Pavement Surface Irregularity (Ruts, Potholes, Grates, etc.)</a> |
| 07    | <a href="#">Other Non-Collision</a>                                          |
| 72    | <a href="#">Cargo/Equipment Loss, Shift, or Damage (harmful)</a>             |
| 16    | <a href="#">Thrown or Falling Object</a>                                     |
| 05    | <a href="#">Fell/Jumped from Vehicle</a>                                     |



**Collision With Motor Vehicle In-Transport:**

| <b>Codes</b> | <b>Attributes</b>                                                                                                                                      |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12           | <a href="#">Motor Vehicle In-Transport</a>                                                                                                             |
| 54           | <a href="#">Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons, or Objects Set in Motion from/by Another Motor Vehicle In-Transport</a> |
| 55           | <a href="#">Motor Vehicle in Motion Outside the Trafficway</a>                                                                                         |

**Collision With Object Not Fixed:**

| <b>Codes</b> | <b>Attributes</b>                                                      |
|--------------|------------------------------------------------------------------------|
| 08           | <a href="#">Pedestrian</a>                                             |
| 09           | <a href="#">Pedalcyclist</a>                                           |
| 10           | <a href="#">Railway Vehicle</a>                                        |
| 74           | <a href="#">Road Vehicle on Rails</a>                                  |
| 11           | <a href="#">Live Animal</a>                                            |
| 49           | <a href="#">Ridden Animal or Animal-Drawn Conveyance</a>               |
| 18           | <a href="#">Other Object (Not Fixed)</a>                               |
| 15           | <a href="#">Non-Motorist on Personal Conveyance</a>                    |
| 14           | <a href="#">Parked Motor Vehicle</a>                                   |
| 45           | <a href="#">Working Motor Vehicle</a>                                  |
| 73           | <a href="#">Object That Had Fallen from Motor Vehicle In-Transport</a> |
| 91           | <a href="#">Unknown Object Not Fixed</a>                               |

**Collision With Fixed Object:**

| <b>Codes</b> | <b>Attributes</b>                               |
|--------------|-------------------------------------------------|
| 17           | <a href="#">Boulder</a>                         |
| 19           | <a href="#">Building</a>                        |
| 58           | <a href="#">Ground</a>                          |
| 20           | <a href="#">Impact Attenuator/Crash Cushion</a> |
| 50           | <a href="#">Bridge Overhead Structure</a>       |
| 21           | <a href="#">Bridge Pier or Support</a>          |
| 23           | <a href="#">Bridge Rail (Includes Parapet)</a>  |
| 24           | <a href="#">Guardrail Face</a>                  |
| 52           | <a href="#">Guardrail End</a>                   |

| Codes | Attributes                                                |
|-------|-----------------------------------------------------------|
| 25    | <a href="#">Concrete Traffic Barrier</a>                  |
| 57    | <a href="#">Cable Barrier</a>                             |
| 26    | <a href="#">Other Traffic Barrier</a>                     |
| 59    | <a href="#">Traffic Sign Support</a>                      |
| 46    | <a href="#">Traffic Signal Support</a>                    |
| 30    | <a href="#">Utility Pole/Light Support</a>                |
| 31    | <a href="#">Other Post, Other Pole, or Other Supports</a> |
| 32    | <a href="#">Culvert</a>                                   |
| 33    | <a href="#">Curb</a>                                      |
| 34    | <a href="#">Ditch</a>                                     |
| 35    | <a href="#">Embankment</a>                                |
| 38    | <a href="#">Fence</a>                                     |
| 39    | <a href="#">Wall</a>                                      |
| 40    | <a href="#">Fire Hydrant</a>                              |
| 41    | <a href="#">Shrubbery</a>                                 |
| 42    | <a href="#">Tree (Standing Only)</a>                      |
| 48    | <a href="#">Snow Bank</a>                                 |
| 53    | <a href="#">Mailbox</a>                                   |
| 43    | <a href="#">Other Fixed Object</a>                        |
| 93    | <a href="#">Unknown Fixed Object</a>                      |

#### Not Reported/Unknown

| Codes | Attributes                                          |
|-------|-----------------------------------------------------|
| 98    | <a href="#">Harmful Event, Details Not Reported</a> |
| 99    | <a href="#">Reported as Unknown</a>                 |

**Remarks:** This data element is derived from the Crash Events Table. Recording of Crash Events ends at the last harmful event of the entire crash. Therefore, a [non-harmful event](#) (e.g., Crossing the Centerline) that occurs following the last harmful event of the crash will not be included. Correction to the SEQUENCE OF EVENTS order must be made by revision to the Crash Events Table. This field uses the same values and Remarks as the Vehicle Level data element [SEQUENCE OF EVENTS](#).

**Vehicle Number (Other Vehicle)****FORMAT:** *Element* Completed in **RBIS****SAS NAME:** Cevent.VNUMBER2, Vevent.VNUMBER2**ELEMENT VALUES:**

| Codes   | Attributes    |
|---------|---------------|
| 001-999 | Actual Number |

**Remarks:** This identifies the vehicle number of the vehicle contacted by the motor vehicle in-transport recorded in “Vehicle Number (This Vehicle).” This field is applicable only when the event is a collision between two motor vehicles (i.e., SEQUENCE OF EVENTS codes [12](#), [54](#), [55](#), [14](#), or [45](#)). If the event is **not** a collision between two motor vehicles, then Vehicle Number (Other Vehicle) is not applicable and left blank. **See the [Coding Guide: Crash Events Table, Vehicle Placement](#) for helpful information.**

**[Areas of Impact \(Other Vehicle\)](#)****FORMAT:** *Element* Completed in **RBIS****SAS NAME:** Cevent.AOI2, Vevent.AOI2**ELEMENT VALUES:**

| Codes | Attributes                                                                    |
|-------|-------------------------------------------------------------------------------|
| 00    | <a href="#">Non-Collision</a>                                                 |
| 01-12 | <a href="#">Clock Points</a>                                                  |
| 13    | <a href="#">Top</a>                                                           |
| 14    | <a href="#">Undercarriage</a>                                                 |
| 61    | <a href="#">Left</a>                                                          |
| 62    | <a href="#">Left-Front Side</a>                                               |
| 63    | <a href="#">Left-Back Side</a>                                                |
| 81    | <a href="#">Right</a>                                                         |
| 82    | <a href="#">Right-Front Side</a>                                              |
| 83    | <a href="#">Right-Back Side</a>                                               |
| 18    | <a href="#">Cargo/Vehicle Parts Set in Motion</a>                             |
| 19    | <a href="#">Other Objects or Person Set in Motion</a>                         |
| 20    | <a href="#">Object Set in Motion, Unknown if Cargo/Vehicle Parts or Other</a> |
| 98    | <a href="#">Not Reported</a>                                                  |
| 99    | <a href="#">Reported as Unknown</a>                                           |

**Remarks:** Identifies the contact point for the vehicle coded in Vehicle Number (*Other Vehicle*) associated with this event. *If the event is not a collision between two motor vehicles, then AOI (Other Vehicle) is not applicable and left blank.*

This field uses the same values as the Vehicle Level data element [AREAS OF IMPACT - Initial Contact Point](#). The Vehicle Level data element AREAS OF IMPACT - Initial Contact Point is derived from the Crash Events Table and will always be the first recorded AREAS OF IMPACT value for each vehicle in the table. *See the [Coding Guide: Vehicle Components and Areas of Impact](#) for helpful information.*

## C19 - First Harmful Event

**FORMAT:** 2 numeric

**SAS NAME:** Accident.HARM\_EV, Vehicle.HARM\_EV, Person.HARM\_EV,  
Parkwork.PHARM\_EV

**ELEMENT VALUES:**

### Non-Collision Harmful Events:

| Codes | Attributes                                                                   |
|-------|------------------------------------------------------------------------------|
| 01    | <a href="#">Rollover/Overturn</a>                                            |
| 02    | <a href="#">Fire/Explosion</a>                                               |
| 03    | <a href="#">Immersion or Partial Immersion</a>                               |
| 04    | <a href="#">Gas Inhalation</a>                                               |
| 51    | <a href="#">Jackknife (harmful to this vehicle)</a>                          |
| 06    | <a href="#">Injured in Vehicle (Non-Collision)</a>                           |
| 44    | <a href="#">Pavement Surface Irregularity (Ruts, Potholes, Grates, etc.)</a> |
| 07    | <a href="#">Other Non-Collision</a>                                          |
| 16    | <a href="#">Thrown or Falling Object</a>                                     |
| 72    | <a href="#">Cargo/Equipment Loss, Shift, or Damage (harmful)</a>             |
| 05    | <a href="#">Fell/Jumped from Vehicle</a>                                     |

### Collision With Motor Vehicle In-Transport:

| Codes | Attributes                                                                                                                                             |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12    | <a href="#">Motor Vehicle In-Transport</a>                                                                                                             |
| 54    | <a href="#">Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons, or Objects Set in Motion from/by Another Motor Vehicle In-Transport</a> |
| 55    | <a href="#">Motor Vehicle in Motion Outside the Trafficway</a>                                                                                         |

### Collision With Object Not Fixed:

| Codes | Attributes                            |
|-------|---------------------------------------|
| 08    | <a href="#">Pedestrian</a>            |
| 09    | <a href="#">Pedalcyclist</a>          |
| 10    | <a href="#">Railway Vehicle</a>       |
| 74    | <a href="#">Road Vehicle on Rails</a> |
| 11    | <a href="#">Live Animal</a>           |

| <b>Codes</b> | <b>Attributes</b>                                                      |
|--------------|------------------------------------------------------------------------|
| 49           | <a href="#">Ridden Animal or Animal Drawn Conveyance</a>               |
| 18           | <a href="#">Other Object (Not Fixed)</a>                               |
| 15           | <a href="#">Non-Motorist on Personal Conveyance</a>                    |
| 14           | <a href="#">Parked Motor Vehicle</a>                                   |
| 45           | <a href="#">Working Motor Vehicle</a>                                  |
| 73           | <a href="#">Object That Had Fallen from Motor Vehicle In-Transport</a> |
| 91           | <a href="#">Unknown Object Not Fixed</a>                               |

### **Collision With Fixed Object:**

| <b>Codes</b> | <b>Attributes</b>                                         |
|--------------|-----------------------------------------------------------|
| 17           | <a href="#">Boulder</a>                                   |
| 19           | <a href="#">Building</a>                                  |
| 58           | <a href="#">Ground</a>                                    |
| 20           | <a href="#">Impact Attenuator/Crash Cushion</a>           |
| 50           | <a href="#">Bridge Overhead Structure</a>                 |
| 21           | <a href="#">Bridge Pier or Support</a>                    |
| 23           | <a href="#">Bridge Rail (Includes Parapet)</a>            |
| 24           | <a href="#">Guardrail Face</a>                            |
| 52           | <a href="#">Guardrail End</a>                             |
| 25           | <a href="#">Concrete Traffic Barrier</a>                  |
| 57           | <a href="#">Cable Barrier</a>                             |
| 26           | <a href="#">Other Traffic Barrier</a>                     |
| 59           | <a href="#">Traffic Sign Support</a>                      |
| 46           | <a href="#">Traffic Signal Support</a>                    |
| 30           | <a href="#">Utility Pole/Light Support</a>                |
| 31           | <a href="#">Other Post, Other Pole, or Other Supports</a> |
| 32           | <a href="#">Culvert</a>                                   |
| 33           | <a href="#">Curb</a>                                      |
| 34           | <a href="#">Ditch</a>                                     |
| 35           | <a href="#">Embankment</a>                                |
| 38           | <a href="#">Fence</a>                                     |
| 39           | <a href="#">Wall</a>                                      |

| Codes | Attributes                           |
|-------|--------------------------------------|
| 40    | <a href="#">Fire Hydrant</a>         |
| 41    | <a href="#">Shrubbery</a>            |
| 42    | <a href="#">Tree (Standing Only)</a> |
| 48    | <a href="#">Snow Bank</a>            |
| 53    | <a href="#">Mailbox</a>              |
| 43    | <a href="#">Other Fixed Object</a>   |
| 93    | <a href="#">Unknown Fixed Object</a> |

### **Not Reported/Unknown**

| Codes | Attributes                                          |
|-------|-----------------------------------------------------|
| 98    | <a href="#">Harmful Event, Details Not Reported</a> |
| 99    | <a href="#">Reported as Unknown</a>                 |

**Definition:** *The first* injury- or damage-producing event of the crash.

**Remarks:** On following page.

## **Non-Collision Harmful Events**

### **Non-Collision events involving motorcycles and vehicles with a “load”:**

Non-Collision events may occur before or after a collision event. They should not be coded as a separate event if they occur as part of a collision event.

#### **Examples:**

- A motorcycle strikes a deer, overturns, and the rider becomes separated from the vehicle. Code the collision event, not the non-collision “Rollover/Overturn” and “Fell/Jumped from Vehicle” that occur as part of the collision event.
- One tractor/trailer rear-ends another tractor/trailer. The impact pushes the lead vehicle’s load into the back of the tractor cab with part falling onto the roadway. Code the collision event, not the non-collision “cargo-loss or shift” that occurred as part of the collision event.

**01 (Rollover/Overturn)** is used when a motor vehicle rotates (rollover) at least one quarter turn onto its side or end. For motorcycles, laying the motorcycle down on its side is sufficient to code **01 (Rollover/Overturn)** as a harmful event if damage or injury is produced, even though the data element [ROLLOVER](#) is not applicable to motorcycles.

If there is a **01 (Rollover/Overturn)** that begins in another location but involves a ditch or embankment in the case (e.g., “rolled through the ditch,” “rolled down the embankment,” “came to rest against the embankment”), then the rule applies where if there is no damage associated with an impact with the fixed object during the rollover, it is not included in the Crash Events. If there is indication that damage resulted from an impact with the fixed object, it is included in the Crash Events. This follows the same logic as striking a tree or another vehicle during an overturn.

**Note:** For *vehicles* with attached *trailing unit(s)* by fixed *or non-fixed* linkage, when either the power unit or the *trailing unit(s)* rolls over, the entire vehicle will be considered a rollover. *This applies to all motor vehicles with any type of trailing unit(s). If a motorcycle is pulling a trailing unit that overturns, the motorcycle should have 01 (Rollover/Overturn) in its Crash Events. However, since the power unit is a motorcycle, the element [ROLLOVER](#) still does NOT apply.*

**02 (Fire/Explosion)** is used for a vehicle fire or explosion that occurs during the crash sequence or as a result of the crash.

As it pertains to the occurrence of **02 (Fire/Explosion)**, the crash circumstances are not considered stabilized until the threat of damage to this vehicle, or injury consequences to this vehicle’s occupants, has ceased. Therefore, the crash sequence is not considered stabilized until all occupants have exited the vehicle and the scene has been declared safe by police or other authority. Fires that occur at a later time to vehicles abandoned at the scene (in open fields, on hillsides, etc.) or to vehicles removed from the scene to another location (tow yard, curbside, etc.) are not considered part of the crash sequence.

**03 (Immersion or Partial Immersion)** is used when an in-transport motor vehicle enters a body of water and results in injury or damage. This code would also be used if the vehicle came to rest



in water and the depth cannot be ascertained from case material. **NOTE:** In immersion fatalities the injury to the person may be noted as “drowning.”

**04 (Gas Inhalation)** includes injury or death as a result of toxic fumes, such as carbon monoxide fumes leaking from a motor vehicle in-transport.

**51 (Jackknife [harmful to this vehicle])** applies to a condition that occurs to an articulated vehicle, (any vehicle with a trailing unit(s) connected by a hitch; truck tractor or single-unit truck with one or more trailers, articulated bus, car pulling a boat on a trailer, etc.) while in motion. The condition reflects a loss of control of the vehicle by the driver in which the trailer(s) yaws from its normal straight-line path behind the power unit, striking the power unit, causing damage to the power unit or trailer. Jackknife should only be coded as a harmful event if there is clear indication of damage to the jackknifed vehicle or injury to its occupants caused by the jackknife.

**06 (Injured in Vehicle [non-collision])** is used when an occupant is injured during an unstabilized situation without a collision, excluding cargo/equipment loss or shift. Examples: Driver slams on brake, causing an unrestrained passenger to be injured. Driver makes a sharp turn causing driver to strike head on side window, knocking driver unconscious.

**44 (Pavement Surface Irregularity [ruts, potholes, grates, etc.])** is used when the pavement surface irregularity is on a paved surface. Other examples include indication of contact with a dip, depression, low spot, trough, etc.) If the impact is with a surface irregularity (e.g., ruts, potholes) not on a paved surface use the [58 \(Ground\)](#). For a vehicle that “bottoms out” on the paved surface (causing damage) due to speed but not because of a pavement surface irregularity, use attribute **07 (Other Non-Collision)**.

**07 (Other Non-Collision)**. Non-collision not captured in the listed non-collision attributes.

**Examples:**

- Damage to the vehicle produced by its own dislodged vehicle parts (including hood flying up and contacting the windshield).
- A vehicle “bottoms out” (causing damage) due to speed but not because of a pavement surface irregularity. Damage due to pavement surface irregularities should be coded **44 (Pavement Surface Irregularity [ruts, potholes, grates, etc.])**.

**16 (Thrown or Falling Object)** is used when any object (1) is thrown (intentionally or unintentionally) and impacts an in-transport vehicle, or (2) falls onto, into, or in the path of an in-transport motor vehicle. If a tree limb falls from a tree and is contacted by a car, enter **16 (Thrown or Falling Object)**. If a person maliciously throws an object off an overpass into traffic below, enter **16 (Thrown or Falling Object)**. This excludes contacts made by loads or objects set in motion by a motor vehicle (see [54 \(Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons, or Objects Set in Motion from/by Another Motor Vehicle In-Transport\)](#)).

**72 (Cargo/Equipment Loss, Shift, or Damage [harmful])** refers specifically to the loss or shift of items carried on or in a motor vehicle or its trailing unit, causing damage and/or injury to the vehicle, its occupants, its parts, trailing unit, or the cargo itself. Harm can be measured in loss of monetary value from unrecoverable cargo loss as well as physical damage. This attribute should never be used to refer to a “collision” event (see [54 \(Motor Vehicle In-Transport Strikes or is](#)

## Struck by Cargo, Persons, or Objects Set in Motion from/by Another Motor Vehicle In-Transport)).

### **Examples:**

- A pickup truck brakes rapidly to avoid a collision. This causes a piece of lumber in the pickup bed to smash through the rear window.
- Unsecured cargo shifts inside a box truck and bursts through the wall of the trailer.
- Pallets of beehives on a flatbed truck fall off the truck on a sharp curve causing the hives to open and the bees to fly away.

### **Notes:**

In situations when a cargo shift is part of a collision event, the cargo shift is not coded separately. See [Non-Collision events involving motorcycles and vehicles with a “load.”](#)

- Unsecured cargo shifts inside a box truck causing a loss of control. The driver overcorrects, driving off the road. This would be a [60 \(Cargo/Equipment Loss or Shift \[non-harmful\]\)](#) in the SEQUENCE OF EVENTS.
- Use [07 \(Other Non-Collision\)](#) in a situation where a motor vehicle in transport is towing another unit (motor vehicle, trailer, etc.) and the second unit collides into the back of the power unit (not a Jackknife or part of a collision event).

**05 (Fell/Jumped from Vehicle)** is used when an occupant of this vehicle falls or jumps (not suicide) from the vehicle causing injury. For example, an occupant of a motor vehicle in-transport leans against the car door, it opens and the occupant falls out; or a person riding on a vehicle's exterior (hood, roof, running board, etc.) falls or jumps, and is injured by the fall. If an occupant falls or jumps from a vehicle and is struck by that vehicle, use this attribute.

### ***Collision With a Motor Vehicle In-Transport***

**12 (Motor Vehicle In-Transport)** is used when the injury- or damage-producing event is two motor vehicles in-transport making contact within the trafficway boundaries. In-transport means that the motor vehicle is in motion or on the roadway portion of a trafficway.

**54 (Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons, or Objects Set in Motion from/by Another Motor Vehicle In-Transport)** is used when the injury- or damage-producing event is two motor vehicles in-transport making contact by something set in motion by one or both of the vehicles.

In crashes involving harmful events caused by objects set in motion by a motor vehicle in-transport, remember that a vehicle's load is considered part of the vehicle.

### **Examples:**

- If cargo falls from a truck (in-transport) and strikes another motor vehicle in-transport, this is treated as a two-vehicle crash. Therefore, the proper code for both vehicles is **54 (Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons, or Objects Set in Motion from/by Another Motor Vehicle In-Transport)** and the [AREA OF IMPACT \(This Vehicle\)](#) column is coded [18 \(Cargo/Vehicle Parts Set in Motion\)](#).

- If an in-transport vehicle strikes an at-rest object that was previously cargo or part of another motor vehicle in-transport, the SEQUENCE OF EVENTS for that event is **73 (Object That Had Fallen from Motor Vehicle In-Transport)**. If that object is then propelled into another motor vehicle in-transport, the proper SEQUENCE OF EVENTS attribute for this next event is **54 (Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons, or Objects Set in Motion from/by Another Motor Vehicle In-Transport)** and the **AREA OF IMPACT (This Vehicle)** column is coded **19 (Other Objects or Person Set in Motion)**.
- If an in-transport vehicle strikes an at-rest object that was not cargo or part of another motor vehicle in-transport, the SEQUENCE OF EVENTS for that event is **18 (Other Object [Not Fixed])**. If that object is then propelled into another motor vehicle in-transport, the proper SEQUENCE OF EVENTS code for this next event is **54 (Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons, or Objects Set in Motion from/by Another Motor Vehicle In-Transport)** and the **AREA OF IMPACT (This Vehicle)** column is coded **19 (Other Objects or Person Set in Motion)**.

This attribute does not apply when the cargo, people, or objects set in motion by an in-transport motor vehicle strikes something other than another in-transport motor vehicle. In this case, use the applicable “collision with non-fixed object” or “collision with fixed object” code for the thing struck by the cargo, person, or object set in motion.

#### **Examples:**

- If cargo falls from a truck (in-transport) and strikes another vehicle that is not in-transport, the proper SEQUENCE OF EVENTS attribute is **14 (Parked Motor Vehicle)** or **45 (Working Motor Vehicle)** depending on which type of not in-transport vehicle was contacted by the load and the **AREA OF IMPACT (This Vehicle)** column is coded **18 (Cargo/Vehicle Parts Set in Motion)**.
- If cargo falls from a truck (in-transport) and strikes a pedestrian, the proper SEQUENCE OF EVENT attribute would be **08 (Pedestrian)** and the **AREA OF IMPACT (This Vehicle)** column is coded **18 (Cargo/Vehicle Parts Set in Motion)**.
- If a pedestrian is struck by an at-rest object propelled by an in-transport vehicle (parked motor vehicle, stop sign, etc.), the proper SEQUENCE OF EVENTS attribute for this harmful event is **08 (Pedestrian)** and the **AREA OF IMPACT (This Vehicle)** column is coded **19 (Other Objects or Person Set in Motion)**.

**55 (Motor Vehicle in Motion Outside the Trafficway)** is used when the injury- or damage-producing event is two motor vehicles in-transport making contact outside the trafficway boundaries in a motor vehicle traffic crash.

#### **Example:**

A vehicle loses control attempting to turn into a gas station and strikes another vehicle pulling away from the pump in the station lot.

### ***Collision With Object Not Fixed***

**08 (Pedestrian)** is used for all those not on a personal conveyance. A person pushing a vehicle should be coded **08 (Pedestrian)**. A person being carried by another person should also be considered a **08 (Pedestrian)**.

**09 (Pedalcyclist)** is used for any person on a non-motorized other road vehicle propelled by pedaling. Examples include a bicycle, tricycle, unicycle, or pedal car.

If a non-motorist is hit as a result of a vehicle to vehicle collision and you cannot reasonably determine which vehicle struck the non-motorist, use the lowest vehicle number of the MVIT(s) involved in the vehicle to vehicle event that resulted in the pedestrian or pedalcyclist collision. In the element [\*\*RELATED FACTORS - PERSON \(NOT A MOTOR VEHICLE OCCUPANT\) LEVEL\*\*](#), use code [\*\*031 Default Code Used for Vehicle Numbering\*\*](#).

**10 (Railway Vehicle)** is any land vehicle that is (1) designed primarily for, or in use for, moving people or property from one place to another on rails and (2) not in use on a land way other than a railway.

- Inclusions: Railway Trains, Streetcar/trolley on private way.
- Exclusions: Streetcar/trolley operating on trafficway.

**74 (Road Vehicle on Rails)** is any land vehicle on rails operating in a trafficway.

- Inclusions: Streetcar/trolley operating on trafficway.
- Exclusions: Railway Trains, Streetcar/trolley on private way, Streetcar/trolley or electric bus operating on tires.

**11 (Live Animal)** is used for collisions with live animals (domesticated or wild) that are not themselves being used as transportation or to draw a wagon, cart, or other transport device (see [\*\*ANSI D16.1\*\*](#)). Default to **11 (Live Animal)** if it cannot be determined if the struck animal is alive, dead, or if it was being ridden or drawing a transport device.

**49 (Ridden Animal or Animal-Drawn Conveyance)** is used for ridden animals and animals drawing transport devices. See **18 (Other Object [Not Fixed])** for an animal carcass.

**18 (Other Object [Not Fixed])** is used when a motor vehicle in-transport strikes a non-fixed object that is known NOT to have been the cargo or part of another motor vehicle in-transport or when it is UNKNOWN whether the object was the cargo or part of another motor vehicle in-transport (i.e., refers to objects such as a dead body, animal carcass, construction cones or barrels, an unattached trailer, a bicycle without a rider, downed tree limbs or power lines, or debris from a prior crash). For objects that have become separated from a motor vehicle in-transport not as a result of a prior crash, use attribute [\*\*73 \(Object That Had Fallen from Motor Vehicle In-Transport\)\*\*](#).

**15 (Non-Motorist on Personal Conveyance)** is used for pedestrians using personal conveyances. A personal conveyance is a device, other than a transport device, used by a pedestrian for personal mobility assistance or recreation. These devices can be motorized or human powered, but not propelled by pedaling.

**Inclusions:**

- 1 Rideable toys
  - a. Roller skates, in-line skates
  - b. Skateboards
  - c. Skates
  - d. Baby carriage
  - e. Scooters
  - f. Toy wagons
- 2 Motorized rideable toys
  - a. Motorized skateboard
  - b. Motorized toy car
  - c. ***Motorized kick scooter***
- 3 Devices for personal mobility assistance
  - a. ***Self-balancing personal conveyance (e.g., Segway-style device)***
  - b. Motorized and non-motorized wheelchair
  - c. ***Mobility aid*** scooters

**Exclusions:**

1. Golf cart
2. Low speed vehicles (LSVs)
3. Go-carts
4. Minibike
5. “Pocket” motorcycles
6. Motor scooters
7. Moped

**14 (Parked Motor Vehicle)** is used when the impact occurred between a motor vehicle in-transport and a motor vehicle neither on a roadway nor in motion. A vehicle stopped off the roadway, its door open over a roadway, is not in-transport.

**45 (Working Motor Vehicle)** is used to indicate the motor vehicle contacted was in the act of performing construction, maintenance, or utility work related to the trafficway when it became an involved unit. The vehicle should be known to be in the act of performing work. This “work” may be located within open or closed portions of the trafficway and motor vehicles performing

these activities can be within or outside the trafficway boundaries. This code does not include private construction/maintenance vehicles, or vehicles such as garbage trucks, delivery trucks, taxis, emergency vehicles, tow trucks, etc. **DO NOT evaluate this attribute on NCSA Body Type alone.**

**Examples:**

1. Asphalt/steam roller working in a highway construction zone paving the roadway or flattening dirt.
2. State highway maintenance crew painting lane lines on the road, mowing grass on the roadside or median, repairing potholes, removing debris from the roadway, etc.
3. Utility truck or a “cherry picker,” performing maintenance on power lines along the roadway or maintaining a traffic signal.
4. A private excavating company contracted by the State digging the foundation for a new overpass.
5. A State, county, or privately-owned snowplow, plowing ice/snow as part of a highway maintenance activity.
6. Street sweeper sweeping the street.
7. A vehicle in a mobile work convoy displaying arrow boards or other signaling devices warning motorists of the work activity.
8. A law enforcement vehicle that is participating strictly in a stationary construction or mobile maintenance activity as a traffic slowing, control, signaling, or calming influence.

**NOTE:** Code “45” excludes working activities other than highway construction, maintenance, or utility vehicles (garbage truck picking up trash, mail/delivery trucks while making deliveries, personal vehicles plowing snow, etc. These are considered motor vehicles In-transport). Use RELATED FACTORS-VEHICLE LEVEL [042 \(Other Working Vehicle \[Not Construction, Maintenance, Utility, Police, Fire, or EMS Vehicle\]\)](#) to identify these vehicles.

A question may arise when a police, fire, or emergency medical vehicle is struck on the roadway while at the scene of a crash, at a traffic stop, or as traffic control. The question becomes, “has its function changed from being a motor vehicle in-transport to a working vehicle?” The answer is “no.” Treat these situations as a motor vehicle in-transport striking another motor vehicle in-transport. Use RELATED FACTORS-VEHICLE LEVEL [041 \(Police, Fire, or EMS Vehicle Working at the Scene of an Emergency or Performing Other Traffic Control Activities\)](#) to identify that this vehicle was struck while performing these work activities.

**73 (Object That Had Fallen from Motor Vehicle In-Transport)** is used when a motor vehicle in- transport impacts a non-fixed object at rest that is known to have been the cargo or part of another motor vehicle in-transport. Do not use this attribute for debris from a prior crash. This attribute does not include vehicle occupants that are ejected or fall from a motor vehicle in-transport. (Example: Motorcycle operator falling from a motorcycle.) For people falling from a motor vehicle, see non-collision event [05 \(Fell/Jumped From Vehicle\)](#). For impacts involving

two motor vehicles in transport resulting from cargo, people, or objects set in motion see [54 \(Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons, or Objects Set in Motion from/by another Motor Vehicle In-Transport\)](#). For at rest detached trailers (e.g., a detached semi-trailer), use attribute [18 \(Other Object \[Not Fixed\]\)](#). If cargo fell from a vehicle, came to rest, and was struck, this attribute would apply. If the cargo was at rest as a result of a prior crash, use attribute [18 \(Other Object \[Not Fixed\]\)](#).

**91 (Unknown Object Not Fixed)** is used when the event involves an object that is known to be not fixed but the case material does not identify the specific object.

### ***Collision With Fixed Object***

The attributes [58 \(Ground\)](#), [33 \(Curb\)](#), [34 \(Ditch\)](#), and [35 \(Embankment\)](#) are grouped under the **Collision With Fixed Object** subset because they are intended to be harmful events in the crash (i.e., they are associated with an impact that produces injury or damage). When coding these events there must be fields on the police crash report or verbiage in the narrative such as “struck,” “hit,” “impacted,” etc. that identify these as harmful.

For cases where the indication of the harmful event came from the narrative, there may not be a corresponding indication of damage in any police crash report field. In these instances, code the harmful event as stated in the narrative and include the corresponding attribute under [AREAS OF IMPACT](#).

If there is no indication of damage from contact with the fixed object in fields on the police crash report and the narrative language does not identify it as a harmful event (e.g., “came to rest on the embankment,” “drove through” or “drove across” the ditch and/or the embankment, or “drove over” the curb), do not code [33 \(Curb\)](#), [34 \(Ditch\)](#), or [35 \(Embankment\)](#) in the [SEQUENCE OF EVENTS](#).

**17 (Boulder)** is a rock of sufficient mass that when struck by a motor vehicle moves very little and remains basically intact. It may be considered as a fixed object.

**19 (Building)** is used when the vehicle impacts a roofed and walled structure built for permanent use. The type of construction material used is not of interest, nor is the use of the building.

**58 (Ground)** is used when the impact is with an earthen or paved surface off the roadway. **58 (Ground)** is not to be entered when the harmful event is [01 \(Rollover/Overturn\)](#).

Indication of furrowing, gouging, or digging in of the tires/wheels is not sufficient to code the collision event **58 (Ground)**. For example, if the police crash report narrative states, “the trucks tires dug into the turf causing the vehicle to roll over,” the harmful event should be [01 \(Rollover/Overturn\)](#).

**20 (Impact Attenuator/Crash Cushion)** is a device for controlling the absorption of energy released during vehicle collision (crash cushion). Its most common application involves the protection of fixed roadside objects such as bridge piers, elevated gores at exit ramps, etc. Examples include barrels filled with water or sand, and plastic collapsible structures.

**50 (Bridge Overhead Structure)** is used when striking the bottom of a bridge while traveling underneath it. See [Figure 20](#) for a diagram of Bridge Components.

**21 (Bridge Pier or Support)** is a square or round column of stone, concrete, brick, steel, or wood for supporting a bridge between abutments. This attribute includes the bridge abutments



that are supporting the ends of a bridge. Abutments are generally designed for retaining or supporting the embankment under bridge ends and composed of stone, concrete, brick, or wood (includes the wing-walls). See [Figure 20](#) for a diagram of Bridge Components.

**23 (Bridge Rail [Includes Parapet])** is a wooden, brick, stone, concrete, or metal fence-like structure that runs along the outer most edge of the roadway or sidewalk on the bridge or a rail constructed along the top of a parapet. Balustrade is often used synonymously with parapet. See Figure 20 for a diagram of Bridge Components.

- Bridges do not need to support another roadway. It may be an overpass for a train or even for a viaduct (water conduit).

**24 (Guardrail Face)** is a low barrier that has the primary longitudinal structure composed of metal (plates, mesh, box beam, etc.). A guardrail is differentiated from [25 \(Concrete Traffic Barrier\)](#) by the material making up the greatest part of the longitudinal portion of the structure. In the case of guardrails, this is metal whereas in concrete barriers this is concrete (including concrete rails). If the crash report does not differentiate between guardrail face and end, default to guardrail face.

Guardrails that serve as bridge rails should be coded as [23 \(Bridge Rails \[includes Parapet\]\)](#).

**52 (Guardrail End)** is used if a vehicle strikes the end of a guardrail. Guardrails can have a separate flat or rounded piece of metal attached to the end of an expanse of guardrail face.

**25 (Concrete Traffic Barrier)** refers to the longitudinal traffic barriers constructed of concrete. This includes all temporary concrete barriers regardless of location (i.e., temporary Jersey Barrier on a bridge being used to control traffic during bridge repair/construction). Concrete walls (vertical side surfaces) do not apply here; see [39 \(Wall\)](#).

**57 (Cable Barrier)** refers to a flexible barrier system that uses several cables typically supported by steel posts. These barriers are designed to help lessen impact or keep vehicles within the confines of the road.

**26 (Other Traffic Barrier)** is used for all other longitudinal barriers such as wood or rock.

**59 (Traffic Sign Support)** is used when the post supporting a traffic sign, or the sign itself, is hit by a motor vehicle in-transport. This includes mile marker posts and elevated signs.

**46 (Traffic Signal Support)** is used when the post supporting a traffic signal, or the signal itself, is hit by a motor vehicle in-transport. *Use 46 (Traffic Signal Support) for a railroad crossing arm/gate.*

**30 (Utility Pole/Light Support)** refers to supports for highway lighting systems, not including other private lighting systems (e.g., parking lot lights). **30 (Utility Pole/Light Support)** is used for electrical, telephone, cable, and other utility pole-type supports.

**31 (Other Post, Other Pole, or Other Supports)** is used for posts other than highway signs, utility poles, or light supports (reflectors on poles alongside of roadway, parking meters, flag poles, etc.). For mailbox posts, use [53 \(Mailbox\)](#). For fence posts, use [38 \(Fence\)](#).

**32 (Culvert)** is a man-made drain or channel crossing under a road, sidewalk, etc.



**33 (Curb)** is a concrete or asphalt structure that borders the paved surface. It provides drainage control and pavement edge delineation. The face of the curb may be sloped or vertical. Ensure that the case material provide some indication that damage has occurred when a vehicle strikes a curb. This attribute includes collisions with curbing that forms raised islands, medians, or separators. For example, if the report identifies the vehicle struck/collided with a traffic island, channelizing island, raised median, or separator use **33 (Curb)** not [43 \(Other Fixed Object\)](#).

**34 (Ditch)** includes any man-made structure for drainage purposes. A ditch ends where a culvert begins and resumes on the opposite side of the culvert. Reference to a “ditchbank,” “embankment of the ditch,” or “ditch embankment” should be coded under **34 (Ditch)**.

**35 (Embankment)** is a raised structure to hold back water, to carry a roadway, or the result of excavation or washout (including erosion) that may be faced with earth (or rock, stone, or concrete). A **35 (Embankment)** can usually be differentiated from a [39 \(Wall\)](#) by its incline, whereas a wall is usually vertical. However, there are exceptions to this, such as a retaining wall that may be inclined or a vertical embankment that is caused by a natural event such as a washout.

In crashes involving a field approach or driveway crossing, use attribute **35 (Embankment)** when no specific components (e.g., culverts or ditches) are identified.

**38 (Fence)** includes the fence posts. A Fence can be made of wood, chain link, stone, etc.

**39 (Wall)** is a primarily vertical structure composed of concrete, metal, timber, or stone that is not part of a building or a fence but typically is used for retaining earth, abating noise, and separating areas (but not for containment as in the primary function of a fence). Also included as **39 (Wall)** is headwalls (or endwalls) that are sometimes provided on culvert ends principally to protect the sides of the embankment around the culvert opening against erosion. This does not include wing-walls, which are attached to ends of bridge abutments and extend back at an angle from the roadway. Wingwalls should be coded as [21 \(Bridge Pier or Support\)](#).

**40 (Fire Hydrant)** refers to the roadside device used by fire departments to provide water for fighting fires. Usually made of steel, these devices are also referred to as fire plugs or fire standpipes in some areas.

**41 (Shrubbery)** refers to vegetation that is usually of a woody multi-stemmed variety and in most instances is low growing rather than tall. May also be called bushes. Some common examples are boxwood, hawthorn, and mountain laurel.

**42 (Tree [Standing Only])** is used when a vehicle strikes a standing tree. This includes impacts from overhanging branches, tree stumps, or large cactus (Saguaro). If a vehicle strikes a fallen tree, use [18 \(Other Object \[Not Fixed\]\)](#). If a tree falls on a vehicle as it is passing by, use [16 \(Thrown or Falling Object\)](#).

**48 (Snow Bank)** is used when snowfall and/or road plowing creates essentially fixed barriers of snow/ice that are not snow-covered earth or rock embankments.

**53 (Mailbox)** refers to a private residence mail/newspaper box including the post. A cluster of private mailboxes is included in this attribute. This element does not include U.S. Mailbox, which are typically blue and are for general public use. Code a U.S. Mailbox as **43 (Other Fixed Object)**.

**43 (Other Fixed Object)** is used when the object is fixed (considered a permanent structure) and is not described by any of the other fixed object attributes. This attribute excludes collisions with curbing that forms raised islands, medians, or separators (see [33 \(Curb\)](#)).

**Examples:**

- Bus shelters
- Pedestrian walkways
- Toll booths
- Guy wires supporting utility poles
- U. S. Mailbox for public use

Other examples would include property damage to standing crops, yards, and other vegetation (excluding: [41 \(Shrubbery\)](#), [42 \(Tree \[Standing Only\]\)](#), and [58 \(Ground\)](#)) if noted on the crash report.

When the case material identifies a non-specific object impact, apply the following guidelines. If the case material only identifies the harmful event as:

- “Fixed Object,” then use **43 (Other Fixed Object)**
- “Sign,” then use [59 \(Traffic Sign Support\)](#)
- “Post,” then use [31 \(Other Post, Other Pole, or Other Supports\)](#)
- “Signpost,” then use [59 \(Traffic Sign Support\)](#)
- “Bridge,” then use [23 \(Bridge Rail \[Includes Parapet\]\)](#) when the vehicle is on top of the bridge. When the vehicle is going under the bridge, then use [21 \(Bridge Pier or Support\)](#)
- “Barrier,” then use [26 \(Other Traffic Barrier\)](#)

**93 (Unknown Fixed Object)** is used when the event involves an object that is known to be fixed but the case material does not identify the specific object.

***Not Reported/Unknown***

**98 (Harmful Event, Details Not Reported)** is used when a harmful event was reported but the object classification was not reported.

**99 (Reported as Unknown)** is used when police indicate unknown.

**Consistency Checks ([See Section 400](#)):**

| <b>Error ID</b> | <b>IF</b>                                                                                                  | <b>THEN</b>                                                                                                                                                                                                |
|-----------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 252P            | RELATION TO TRAFFICWAY equals 01, 02, 03, 04, 07, 08, 10, 11, 12, 98, or 99,                               | UNIT TYPE for VEHICLE NUMBER (OTHER VEHICLE) involved in the FIRST HARMFUL EVENT must not equal 3.                                                                                                         |
| 253P            | RELATION TO TRAFFICWAY equals 03,                                                                          | CRASH TYPE should equal 06-10, 98, or 99 for the in-transport vehicles involved in the FIRST HARMFUL EVENT.                                                                                                |
| 254P            | RELATION TO TRAFFICWAY equals 01, and RELATION TO JUNCTION (b) equals 20,                                  | TRAFFICWAY DESCRIPTION must equal 6 for at least one vehicle involved in the FIRST HARMFUL EVENT.                                                                                                          |
| 255P            | RELATION TO TRAFFICWAY equals 01 or 11,                                                                    | UNIT TYPE for VEHICLE NUMBER (THIS VEHICLE) involved in the FIRST HARMFUL EVENT must equal 1.                                                                                                              |
| 256P            | RELATION TO TRAFFICWAY equals 01 or 11,                                                                    | UNIT TYPE for VEHICLE NUMBER (OTHER VEHICLE) involved in the FIRST HARMFUL EVENT should equal 1 or 4.                                                                                                      |
| 257P            | RELATION TO TRAFFICWAY equals 05,                                                                          | UNIT TYPE for VEHICLE NUMBER (OTHER VEHICLE) involved in the FIRST HARMFUL EVENT must equal 1, 3, or 4.                                                                                                    |
| 258P            | RELATION TO JUNCTION (b) is 05 or 20                                                                       | TRAFFICWAY DESCRIPTION should equal 6 for <b>at least one</b> vehicle involved in the FIRST HARMFUL EVENT.                                                                                                 |
| 3E00            | CRITICAL EVENT - PRECRASH (EVENT) equals 65-68 or 70-73 for a vehicle involved in the FIRST HARMFUL EVENT, | RELATION TO JUNCTION (b) should not equal 01 or 18.                                                                                                                                                        |
| 421P            | MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 01,                                                  | AREAS OF IMPACT-INITIAL CONTACT POINT for one vehicle in the FIRST HARMFUL EVENT must equal 12, and AREAS OF IMPACT-INITIAL CONTACT POINT for the other vehicle in the FIRST HARMFUL EVENT must equal 06.  |
| 422P            | MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 02,                                                  | AREAS OF IMPACT-INITIAL CONTACT POINT for one vehicle in the FIRST HARMFUL EVENT must equal 12, and AREAS OF IMPACT- INITIAL CONTACT POINT for the other vehicle in the FIRST HARMFUL event must equal 12. |

| <b>Error ID</b> | <b>IF</b>                                                                    | <b>THEN</b>                                                                                                                                                                                                                                              |
|-----------------|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 423P            | MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 06,                    | AREAS OF IMPACT-INITIAL CONTACT POINT for one vehicle in the FIRST HARMFUL EVENT must equal 01, 11, 12, 98, 99, and AREAS OF IMPACT-INITIAL CONTACT POINT for the other vehicle in the FIRST HARMFUL EVENT must equal 01-05, 07-11, 61-63, 81-83 98, 99. |
| 424P            | MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 09,                    | AREAS OF IMPACT-INITIAL CONTACT POINT for one vehicle in the FIRST HARMFUL EVENT should equal 06, and AREAS OF IMPACT-INITIAL CONTACT POINT for the other vehicle in the FIRST HARMFUL EVENT should equal 01-05, 07-11, 61-63, 81-83, 98, 99.            |
| 425P            | MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 10,                    | AREAS OF IMPACT- INITIAL CONTACT POINT for one vehicle in the FIRST HARMFUL EVENT should equal 06, and AREAS OF IMPACT- INITIAL CONTACT POINT for the other vehicle in the FIRST HARMFUL EVENT should equal 06, 98, 99.                                  |
| 426P            | MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 02,                    | CRASH TYPE must not equal 64-67 for the vehicles involved in the FIRST HARMFUL EVENT.                                                                                                                                                                    |
| 427P            | MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 06,                    | CRASH TYPE must not equal 20-43 or 50-53 for the vehicles involved in the FIRST HARMFUL EVENT.                                                                                                                                                           |
| 42CP            | there are two vehicles involved in the FIRST HARMFUL EVENT,                  | those two vehicles' CRASH TYPES must belong to the same CRASH TYPE Configuration.                                                                                                                                                                        |
| 440F            | FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 01, | there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 01-03, 09-11, 13, 16, 23, 98, or 99.                                                                                               |
| 450F            | FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 07, | there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 14.                                                                                                                                |
| 460F            | FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 02, | there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 02, 20.                                                                                                                            |

| <b>Error ID</b> | <b>IF</b>                                                                                | <b>THEN</b>                                                                                                                                                         |
|-----------------|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 470F            | FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 03, 08, 10, 12, | there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 20, 22, 28, 98, 99.                           |
| 480F            | FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 04, 06,         | there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 09, 16, 20, 21, 24, 25, 28, 98, 99.           |
| 490F            | FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 05,             | there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 24, 25.                                       |
| 500F            | FIRST HARMFUL EVENT equals 01-11, 14-21, 23-26, 30-35, 44-53, 57-59, 72, 73, or 98,      | MANNER OF COLLISION OF THE FIRST HARMFUL EVENT must not equal 01, 02, 06-11, 98, 99.                                                                                |
| 510F            | FIRST HARMFUL EVENT equals 12, 54, 55,                                                   | MANNER OF COLLISION OF THE FIRST HARMFUL EVENT must not equal 00.                                                                                                   |
| 520F            | FIRST HARMFUL EVENT equals 10,                                                           | TRAFFIC CONTROL DEVICE must not equal 01-04, 07-09, <b>20, 21, 23, 28, 29, 50</b> , 98 for the vehicle involved in the first harmful event.                         |
| 530F            | FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 99,             | there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 09, 98, 99.                                   |
| 531F            | FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 11,             | there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 11.                                           |
| <b>532F</b>     | <b>FIRST HARMFUL EVENT equals 14, and RELATION TO TRAFFICWAY equals 07,</b>              | <b>at least one previous CRASH EVENTS-SEQUENCE OF EVENTS should equal 63, 64, 71, or 79 for the motor vehicle in transport involved in the FIRST HARMFUL EVENT.</b> |
| 540F            | FIRST HARMFUL EVENT equals 02,                                                           | the vehicle involved in the FIRST HARMFUL EVENT must have FIRE OCCURRENCE equal to 1.                                                                               |
| 550F            | FIRST HARMFUL EVENT equals 08,                                                           | at least one person must have PERSON TYPE equal 05, 10.                                                                                                             |
| 560F            | FIRST HARMFUL EVENT equals 09,                                                           | at least one person must have PERSON TYPE equal to 06, 07.                                                                                                          |
| 570F            | FIRST HARMFUL EVENT equals 05, 06,                                                       | at least one PERSON TYPE equal to 01-03, 09 must have INJURY SEVERITY equal to 1-5 or blank.                                                                        |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                      | <b>THEN</b>                                                                                 |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| 580F            | FIRST HARMFUL EVENT equals 14, and RELATED FACTORS - PERSON (MV OCCUPANT) LEVEL does not equal 032, 089 for at least one occupant in the not in-transport motor vehicle involved in the FIRST HARMFUL EVENT,   | RELATION TO TRAFFICWAY should not equal 01.                                                 |
| 590F            | FIRST HARMFUL EVENT equals 15,                                                                                                                                                                                 | at least one Person Level form must have a PERSON TYPE code of <b>11, 12, or 13</b> .       |
| 5Y0F            | FIRST HARMFUL EVENT equals 08, 09, 15,                                                                                                                                                                         | NUMBER OF FORMS SUBMITTED FOR PERSONS NOT IN MOTOR VEHICLES must not equal 00.              |
| 670F            | FIRST HARMFUL EVENT equals 12, 14, 45, 54, 55,                                                                                                                                                                 | NUMBER OF VEHICLE FORMS SUBMITTED must be greater than 001.                                 |
| 9BAP            | MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 07, and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 10 or 11 for neither one of the vehicles involved in the FIRST HARMFUL EVENT, | CRASH TYPE should equal 44-49, 98, 99 for the vehicles involved in the FIRST HARMFUL EVENT. |
| 9BCP            | MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 08, and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 10 or 11 for neither one of the vehicles involved in the FIRST HARMFUL EVENT, | CRASH TYPE should equal 64-67, 98, 99 for the vehicles involved in the FIRST HARMFUL EVENT. |
| 9BDP            | MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 01,                                                                                                                                                      | CRASH TYPE should not equal 44-49 for the vehicles involved in the FIRST HARMFUL EVENT.     |
| 9C0P            | FIRST HARMFUL EVENT equals 55,                                                                                                                                                                                 | there must be at least one vehicle with UNIT TYPE equal to 1.                               |
| A041            | CRASH MONTH equals 05-09,                                                                                                                                                                                      | SEQUENCE OF EVENTS, FIRST HARMFUL EVENT, MOST HARMFUL EVENT should not equal 48.            |
| A080            | DRIVER PRESENCE equals 0, and FIRST HARMFUL EVENT equals 12, and NUMBER OF VEHICLE FORMS SUBMITTED equals 002,                                                                                                 | one RELATED FACTORS-DRIVER LEVEL should equal 020 or 054.                                   |
| A100            | FIRST HARMFUL EVENT is not equal to 02, 04, 05, 10, 16,                                                                                                                                                        | there should be one vehicle with TRAVEL SPEED of 001-151, 997-999, or blanks.               |
| A1A0            | ROADWAY SURFACE CONDITIONS equals 01 for a vehicle involved in the FIRST HARMFUL EVENT,                                                                                                                        | ATMOSPHERIC CONDITIONS should not equal 02-04, 11, 12.                                      |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>THEN</b>                                                                                                               |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| A1B0            | TRAFFIC CONTROL DEVICE equals 20, 21 for a vehicle involved in the FIRST HARMFUL EVENT,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | RELATION TO JUNCTION (b) should not equal 01, 18.                                                                         |
| A250            | LAND USE AND FUNCTIONAL SYSTEM (b) equals 01-03, and RELATION TO JUNCTION (a) equals 1, and RELATION TO JUNCTION (b) does not equal 03, 05, 20,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | TOTAL LANES IN ROADWAY should not equal 1 for the vehicles involved in the FIRST HARMFUL EVENT.                           |
| A293            | WORK ZONE equals 1-3, and RELATION TO JUNCTION (b) equals 02, 03,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | TRAFFIC CONTROL DEVICE should equal 01-03, 20, 40, 97, or 98 for the vehicle(s) involved in the FIRST HARMFUL EVENT.      |
| A294            | WORK ZONE equals 1-3, and RELATION TO JUNCTION (b) equals 01, 04, 05, 08, 17-19,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | TRAFFIC CONTROL DEVICE should equal 00, 21, 28, 40, 50, 97, or 98 for the vehicle(s) involved in the FIRST HARMFUL EVENT. |
| A370            | FIRST HARMFUL EVENT equals 99,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | MANNER OF COLLISION OF THE FIRST HARMFUL EVENT should not equal 00, 01-11.                                                |
| A380            | FIRST HARMFUL EVENT equals 01 and this vehicle is involved in the FIRST HARMFUL EVENT and <b>vPIC BODY CLASS does not equal 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring / Sport Touring), 082 (Motorcycle - Cruiser), 084 Off-road Vehicle - Dirt Bike / Off-Road), 085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road), 086 (Off-road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small / Minibike), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 104 (Motorcycle - Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motocross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle),</b> for this vehicle, and RELATION TO TRAFFICWAY equals _____, | LOCATION OF ROLLOVER should equal _____ respectively.                                                                     |
| A390            | FIRST HARMFUL EVENT equals 17, 19-21, 23-26, 30-35, 38-43, 52, 53, 57, <b>58</b> , 93,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | RELATION TO TRAFFICWAY should not equal 01, 02, 07, 11.                                                                   |
| A3C0            | FIRST HARMFUL EVENT equals 02-07,16, 44, 51, 72,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRASH TYPE must equal 00 for the vehicle involved in the FIRST HARMFUL EVENT.                                             |

| <b>Error ID</b> | <b>IF</b>                                                                                                                      | <b>THEN</b>                                                                                                                                                   |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A3D0            | FIRST HARMFUL EVENT equals 01-07, 16, 44, 51, 72,                                                                              | CRASH TYPE must not equal 20-91.                                                                                                                              |
| A3E0            | CRASH TYPE equals 13,                                                                                                          | FIRST HARMFUL EVENT must equal 08, 09, 11, 15, or 49.                                                                                                         |
| A41A            | FIRST HARMFUL EVENT equals 02, 04, 07, 16, 44, or 54,                                                                          | CRITICAL EVENT - PRECRASH (EVENT) should equal 98 for the vehicles involved in the FIRST HARMFUL EVENT.                                                       |
| A420            | FIRST HARMFUL EVENT equals 10,                                                                                                 | RELATION TO JUNCTION (b) should equal 06.                                                                                                                     |
| A421            | FIRST HARMFUL EVENT equals <b>20, 21, 23</b> , 24, 25, <b>26</b> , 30, <b>32</b> , 33, 34, 35, 40, 46, 52, <b>53</b> , 57, 59, | RELATION TO TRAFFICWAY should equal 03, 04, 08, 10, or 12.                                                                                                    |
| A430            | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 10-11 for a vehicle involved in the FIRST HARMFUL EVENT,    | RELATION TO JUNCTION (b) should not equal 01, 18.                                                                                                             |
| A440            | RELATION TO JUNCTION (b) equals 06,                                                                                            | TRAFFIC CONTROL DEVICE should equal 65 for any vehicle involved in the FIRST HARMFUL EVENT.                                                                   |
| A480            | CRASH TYPE equals 00,                                                                                                          | FIRST HARMFUL EVENT must equal 02-07, 16, 44, 51, 72.                                                                                                         |
| A4A0            | CRASH TYPE equals 01-16,                                                                                                       | FIRST HARMFUL EVENT must not equal 12.                                                                                                                        |
| A4B4            | CRASH TYPE equals 12 (Stationary Object on Road) or 13 (Pedestrian/Animal on Road),                                            | RELATION TO TRAFFICWAY should not equal 4 (On Roadside) unless the FIRST HARMFUL EVENT occurs in a bicycle lane.                                              |
| A4BP            | FIRST HARMFUL EVENT equals 54 or 55,                                                                                           | CRASH TYPE must equal 98 for the vehicles involved in the FIRST HARMFUL EVENT.                                                                                |
| A4C0            | RELATION TO JUNCTION (b) equals 04,                                                                                            | at least one PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) for the vehicles involved in the FIRST HARMFUL EVENT should equal 10, 11, 13, or 98. |
| A4DP            | CRASH TYPE equals 20-91,                                                                                                       | FIRST HARMFUL EVENT must equal 12.                                                                                                                            |
| A4EP            | CRASH TYPE equals 11,                                                                                                          | FIRST HARMFUL EVENT must equal 14.                                                                                                                            |
| A60F            | FIRST HARMFUL EVENT equals 14,                                                                                                 | CRASH TYPE should equal 01-11, 14, 15, 92, 98, 99.                                                                                                            |
| A611            | TRAFFICWAY DESCRIPTION equals 6 for at least one vehicle involved in the FIRST HARMFUL EVENT,                                  | RELATION TO JUNCTION (b) should equal 02, 03, 05, 17-20.                                                                                                      |



| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                        | <b>THEN</b>                                                                                |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| A61F            | FIRST HARMFUL EVENT equals 08, 09, 11, 15, 49, and RELATION TO TRAFFICWAY equals 01, 02, 07, 11, and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) is not equal to 00, 13 for the vehicle involved in the FIRST HARMFUL EVENT,                     | CRASH TYPE should equal 13 for the vehicle involved in the FIRST HARMFUL EVENT.            |
| A61G            | the FIRST HARMFUL EVENT equals 08, and PERSON TYPE equals 05, and NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, 22, 24, 25, 28, and the VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is involved in the FIRST HARMFUL EVENT,                    | CRASH TYPE should not equal 13 for this vehicle.                                           |
| A61H            | the FIRST HARMFUL EVENT equals 09, and PERSON TYPE equals 06, 07, and NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, 22, 24, 25, 28, and the VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is involved in the FIRST HARMFUL EVENT,                | CRASH TYPE should not equal 13 for this vehicle.                                           |
| A61J            | the FIRST HARMFUL EVENT equals 15, and PERSON TYPE equals <b>11, 12, or 13</b> , and NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, 22, 24, 25, 28, and the VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is involved in the FIRST HARMFUL EVENT, | CRASH TYPE should not equal 13 for this vehicle.                                           |
| A61K            | the FIRST HARMFUL EVENT equals 49, and PERSON TYPE equals 04, and NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, 22, 24, 25, 28, and the VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is involved in the FIRST HARMFUL EVENT,                    | CRASH TYPE should not equal 13 for this vehicle.                                           |
| A62F            | FIRST HARMFUL EVENT equals 18, 43, 73, 91, or 93, and RELATION TO TRAFFICWAY equals 01, 02, or 11,                                                                                                                                                               | CRASH TYPE should equal 12 or 15 for the vehicle involved in the FIRST HARMFUL EVENT.      |
| A62G            | FIRST HARMFUL EVENT equals 98 and RELATION TO TRAFFICWAY equals 01, 02, or 11,                                                                                                                                                                                   | CRASH TYPE must equal 16 for the vehicle involved in the FIRST HARMFUL EVENT.              |
| A63F            | FIRST HARMFUL EVENT equals 01,                                                                                                                                                                                                                                   | CRASH TYPE should equal 01-10, 98, 99 for the vehicle involved in the FIRST HARMFUL EVENT. |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                    | <b>THEN</b>                                                                                                                                        |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| A65F            | FIRST HARMFUL EVENT equals 14, and RELATED FACTORS - PERSON (MV OCCUPANT) LEVEL equals 032 or 089 for an occupant of the parked vehicle involved in the FIRST HARMFUL EVENT, | CRASH TYPE should equal 15, 92, or 98 for the in-transport vehicle involved in the FIRST HARMFUL EVENT.                                            |
| A66F            | FIRST HARMFUL EVENT equals 14, and CRASH TYPE equals 01-10 or 14,                                                                                                            | RELATED FACTORS - PERSON (MV OCCUPANT) LEVEL must not equal 032 or 089 for any occupant of the parked vehicle involved in the FIRST HARMFUL EVENT. |
| A770            | FIRST HARMFUL EVENT equals 46,                                                                                                                                               | TRAFFIC CONTROL DEVICE should equal 01-04, 65 for the vehicle involved in the FIRST HARMFUL EVENT.                                                 |
| A780            | FIRST HARMFUL EVENT equals 46,                                                                                                                                               | TRAFFIC CONTROL DEVICE should not equal 00 for the vehicle involved in the FIRST HARMFUL EVENT.                                                    |
| A790            | FIRST HARMFUL EVENT equals 46,                                                                                                                                               | RELATION TO JUNCTION (b) should not equal 01, 07.                                                                                                  |
| A800            | FIRST HARMFUL EVENT equals 46,                                                                                                                                               | RELATION TO TRAFFICWAY should not equal 01, 02, 05, 07, 11.                                                                                        |
| A801            | FIRST HARMFUL EVENT equals 12,                                                                                                                                               | RELATION TO TRAFFICWAY must not equal 5.                                                                                                           |
| A890            | RELATION TO JUNCTION (b) equals 01,                                                                                                                                          | TRAFFIC CONTROL DEVICE should not equal 01-04, 20, or 21 for any vehicle involved in the FIRST HARMFUL EVENT.                                      |
| A891            | RELATION TO JUNCTION (b) equals 98 or 99,                                                                                                                                    | TRAFFIC CONTROL DEVICE should not equal 01, 02, 03, 20, 21, or 65 for a vehicle involved in the FIRST HARMFUL EVENT.                               |
| AC1A            | FIRST HARMFUL EVENT equals 54,                                                                                                                                               | MANNER OF COLLISION OF THE FIRST HARMFUL EVENT should equal 11.                                                                                    |
| AM1P            | FIRST HARMFUL EVENT equals 54, or SEQUENCE OF EVENTS equals 54 for any vehicle,                                                                                              | one RELATED FACTORS-CRASH LEVEL must equal 014.                                                                                                    |
| AZ2P            | FIRST HARMFUL EVENT does not equal 02-07, 16, 44, 51, 72, and CRITICAL EVENT-PRECRASH (EVENT) equals 14, and ATTEMPTED AVOIDANCE MANEUVER equals 01,                         | CRASH TYPE must equal 14 for the vehicle involved in the FIRST HARMFUL EVENT.                                                                      |
| AZ5P            | CRITICAL EVENT-PRECRASH (EVENT) equals 70-73 for a vehicle involved in the FIRST HARMFUL EVENT,                                                                              | RELATION TO JUNCTION (b) should equal 04 or 08.                                                                                                    |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                           | <b>THEN</b>                                                                                                |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| B15P            | CRITICAL EVENT - PRECRASH (EVENT) equals 91, and ATTEMPTED AVOIDANCE MANEUVER equals 00, 01, and the vehicle is involved in the FIRST HARMFUL EVENT,                                | CRASH TYPE should equal 15.                                                                                |
| B16P            | CRITICAL EVENT - PRECRASH (EVENT) equals 90, and ATTEMPTED AVOIDANCE MANEUVER equals 01, and the vehicle is involved in the FIRST HARMFUL EVENT,                                    | CRASH TYPE should equal 12 or 15.                                                                          |
| BZ80            | MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 00,                                                                                                                           | CRASH TYPE must equal 00, 01-16, 92, 98, 99 for the vehicle in the FIRST HARMFUL EVENT.                    |
| BZ90            | CRASH TYPE equals 01-05, and PRE-IMPACT LOCATION is not equal to 0 or 5,                                                                                                            | at least one SEQUENCE OF EVENTS prior to the FIRST HARMFUL EVENT must equal 63.                            |
| BZ91            | CRASH TYPE equals 06-10, and PRE-IMPACT LOCATION is not equal to 0 or 5,                                                                                                            | at least one SEQUENCE OF EVENTS prior to the FIRST HARMFUL EVENT must equal 64.                            |
| D530            | any VIOLATIONS CHARGED equal 36 for a vehicle involved in the FIRST HARMFUL EVENT,                                                                                                  | RELATION TO JUNCTION (b) should equal 06.                                                                  |
| FA0F            | FIRST HARMFUL EVENT equals blank,                                                                                                                                                   | case status is flawed.                                                                                     |
| FA1F            | CRASH TYPE for all in-transport vehicles not involved in the FIRST HARMFUL EVENT must equal 98.                                                                                     | --                                                                                                         |
| PB34            | NUMBER OF FORMS SUBMITTED FOR PERSONS NOT IN MOTOR VEHICLES equals 01, and FIRST HARMFUL EVENT equals 08, and RELATION TO JUNCTION (b) equals 02,                                   | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN must not equal 320, 330, 360, 680, 830, 890, 900, or 910. |
| PB35            | NUMBER OF FORMS SUBMITTED FOR PERSONS NOT IN MOTOR VEHICLES equals 01, and FIRST HARMFUL EVENT equals 08, and RELATION TO JUNCTION (b) equals 02,                                   | PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN must equal 1.                                        |
| PBA8            | NUMBER OF FORMS SUBMITTED FOR PERSONS NOT IN MOTOR VEHICLES equals 1, and the FIRST HARMFUL EVENT equals 08, 09, or 15, and NON-MOTORIST LOCATION AT TIME OF CRASH equals 01 or 02; | RELATION TO JUNCTION (SPECIFIC LOCATION) must equal 3.                                                     |
| PC20            | RELATION TO TRAFFICWAY equals 02-08, 10, or 12,                                                                                                                                     | PRE-IMPACT LOCATION of the vehicle(s) involved in the FIRST HARMFUL EVENT should equal 0, 4, 5, or 9.      |

| <b>Error ID</b> | <b>IF</b>                                                                                                      | <b>THEN</b>                                                                                     |
|-----------------|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| U020            | UNLIKELY: FIRST HARMFUL EVENT equals 02, 04, 06, 51, or 72.                                                    | --                                                                                              |
| U030            | UNLIKELY: FIRST HARMFUL EVENT equals 12, 55, and MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 10, 11. | --                                                                                              |
| U640            | UNLIKELY: FIRST HARMFUL EVENT equals 99.                                                                       | --                                                                                              |
| V79P            | ROLLOVER equals 2, and FIRST HARMFUL EVENT equals 01,                                                          | CRASH TYPE must equal 01-10, 14, 15, or 98 for the vehicle involved in the FIRST HARMFUL EVENT. |

**Consistency Checks (CRSS Only) ([See Section 400](#)):**

| <b>Error ID</b> | <b>IF</b>                                                                                                                        | <b>THEN</b>                                                                                                                |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| A3G0            | INTERSTATE HIGHWAY equals 1, and RELATION TO JUNCTION (a) equals 1, and RELATION TO JUNCTION (b) is not equal to 03 or 05 or 20, | TOTAL LANES IN ROADWAY should not equal 1 for at least one vehicle involved in the FIRST HARMFUL EVENT.                    |
| A3H0            | INTERSTATE HIGHWAY equals 1, and RELATION TO JUNCTION (a) equals 1, and RELATION TO JUNCTION (b) is not equal to 03 or 05 or 20, | TRAFFICWAY DESCRIPTION should not equal 4 for at least one vehicle involved in the FIRST HARMFUL EVENT.                    |
| A3J0            | INTERSTATE HIGHWAY equals 1, and RELATION TO JUNCTION (a) equals 1, and RELATION TO JUNCTION (b) is not equal to 03 or 05 or 20, | SPEED LIMIT should not equal 01-40 for at least one vehicle involved in the FIRST HARMFUL EVENT.                           |
| A3K0            | FIRST HARMFUL EVENT equals 10,                                                                                                   | INTERSTATE HIGHWAY should not equal 1.                                                                                     |
| A930            | INTERSTATE HIGHWAY equals 1, and RELATION TO JUNCTION (a) equals 1, and RELATION TO JUNCTION (b) is not equal to 03, 05, or 20,  | TRAFFIC CONTROL DEVICE should not equal 01-03, 20, 23, or 65 for at least one vehicle involved in the FIRST HARMFUL EVENT. |

**Consistency Checks (FARS Only) ([See Section 400](#)):**

| <b>Error ID</b> | <b>IF</b>                                                                                                                              | <b>THEN</b>                                                                                                                                                                             |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A110            | FIRST HARMFUL EVENT equals 10,                                                                                                         | LAND USE AND FUNCTIONAL SYSTEM (b) should not equal 01-03.                                                                                                                              |
| A350            | ROUTE SIGNING equals 1,                                                                                                                | FIRST HARMFUL EVENT should not equal 10.                                                                                                                                                |
| A810            | FIRST HARMFUL EVENT equals 46, and<br>RELATION TO JUNCTION (a) equals 1, and<br>RELATION TO JUNCTION (b) does not equal<br>02, 03, 05, | LAND USE AND FUNCTIONAL SYSTEM (b) should not equal 01.                                                                                                                                 |
| A820            | FIRST HARMFUL EVENT equals 46, and<br>RELATION TO JUNCTION (a) equals 1, and<br>RELATION TO JUNCTION (b) does not equal<br>02, 03, 05, | ROUTE SIGNING should not equal 1.                                                                                                                                                       |
| V536            | <b><i>CRASH TYPE equals 20-49,</i></b>                                                                                                 | <b><i>TRAFFICWAY DESCRIPTION should be the same for the vehicles involved in the FIRST HARMFUL EVENT.</i></b>                                                                           |
| V537            | <b><i>CRASH TYPE equals 68, 69, 82, 83, 86, 87, 88, or 89,</i></b>                                                                     | <b><i>the vehicles involved in the FIRST HARMFUL EVENT should have a RELATION TO JUNCTION equal to 02, 04, or 08.</i></b>                                                               |
| V539            | <b><i>CRASH TYPE equals 50-67,</i></b>                                                                                                 | <b><i>ROADWAY ALIGNMENT should not equal 2 for both vehicles involved in the FIRST HARMFUL EVENT, and should not equal 3 for both vehicles involved in the FIRST HARMFUL EVENT.</i></b> |
| V750            | UNDERRIDE/OVERRIDE equals 1-3,                                                                                                         | FIRST HARMFUL EVENT or at least one SEQUENCE OF EVENTS (for this vehicle) should equal 12, 55.                                                                                          |
| V760            | UNDERRIDE/OVERRIDE equals 4-6,                                                                                                         | FIRST HARMFUL EVENT or at least one SEQUENCE OF EVENTS (for this vehicle) should equal 14, 45.                                                                                          |

## C20 - Manner of Collision of the First Harmful Event

**FORMAT:** 2 numeric

**SAS NAME:** Accident.MAN\_COLL, Vehicle.MAN\_COLL, Person.MAN\_COLL, Parkwork.PMAN\_COLL

**ELEMENT VALUES:**

| Codes | Attributes                                                                                    |
|-------|-----------------------------------------------------------------------------------------------|
| 00    | <a href="#">The First Harmful Event was Not a Collision with a Motor Vehicle In-Transport</a> |
| 01    | <a href="#">Front-to-Rear</a>                                                                 |
| 02    | <a href="#">Front-to-Front</a>                                                                |
| 06    | <a href="#">Angle</a>                                                                         |
| 07    | <a href="#">Sideswipe-Same Direction</a>                                                      |
| 08    | <a href="#">Sideswipe-Opposite Direction</a>                                                  |
| 09    | <a href="#">Rear-to-Side</a>                                                                  |
| 10    | <a href="#">Rear-to-Rear</a>                                                                  |
| 11    | <a href="#">Other</a>                                                                         |
| 98    | <a href="#">Not Reported</a>                                                                  |
| 99    | <a href="#">Reported as Unknown</a>                                                           |

**Definition:** This element identifies the orientation of two motor vehicles in-transport when they are involved in the [FIRST HARMFUL EVENT](#) of a collision crash. If the FIRST HARMFUL EVENT is not a collision between two motor vehicles in-transport, it is classified as such.

### Remarks:

**00 (The First Harmful Event was Not a Collision with a Motor Vehicle In-Transport)** is used when the [FIRST HARMFUL EVENT](#) is not an impact between two in-transport motor vehicles.

**01 (Front-to-Rear)** is used when a collision occurs between the rear of one vehicle and the front of another vehicle. If this attribute is selected, the points of impact for the vehicles involved in the [FIRST HARMFUL EVENT](#) must be front to back.

**02 (Front-to-Front)** is used when a collision occurs between the front end of one vehicle and the front end of another vehicle. If this attribute is selected, the points of impact for the vehicles involved in the [FIRST HARMFUL EVENT](#) must both be front.

**06 (Angle)** is a crash where two motor vehicles impact at an angle. For example, the front of one motor vehicle impacts the side of another motor vehicle. If this attribute is selected, the points of impact for the vehicles involved in the [FIRST HARMFUL EVENT](#) must not be front to front, front to back, back to back, or back to side.

**07 (Sideswipe - Same Direction)** is used when the case material report that a sideswipe occurred while the two vehicles were traveling in the same direction. (See [Figure 2](#).)

**Clarification for coding sideswipe attributes 07 and 08:** Sideswipe codes are used for both vehicles when the initial engagement has no significant involvement of the front or rear surface areas where the impact swipes along the side surfaces of the vehicles parallel to their direction of travel. If it is unclear if the collision was an angle or a sideswipe, then code it [06 \(Angle\)](#). Endswipes and side-to-side angle impacts are coded as [11 \(Other\)](#). (See [Figure 2](#).)

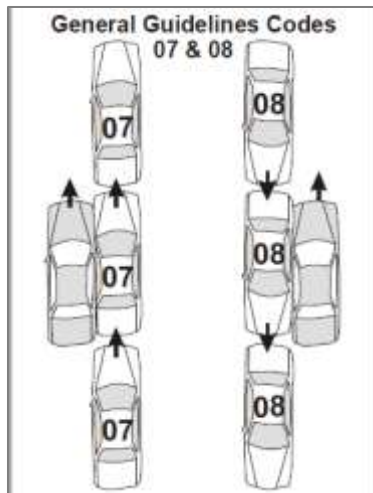


*Figure 2: General Guidelines for Sideswipe Codes 07 and 08*

**08 (Sideswipe - Opposite Direction)** is used when the case material report that a sideswipe occurred while the two vehicles were traveling in opposite directions. (See [Figure 2](#).)

**09 (Rear-To-Side)** is used when a collision occurs between the rear of one vehicle and the side of another vehicle. If this attribute is selected, the points of impact for the vehicles involved in the [FIRST HARMFUL EVENT](#) must back for one and side for the other.

**10 (Rear-To-Rear)** is used when a collision occurs between the rear of one vehicle and the rear of another vehicle. If this attribute is selected, the points of impact for the vehicles involved in the [FIRST HARMFUL EVENT](#) must both be back.

**11 (Other)** should be used for any collision between two motor vehicles in-transport where the collision is not described by attributes “01-10,” including set in motion situations.

**Examples include:**

- One vehicle “end” swipes (endswipe) another vehicle instead of their “sides” swiping.
- One vehicle slides into another vehicle at an angle such that they impact side-to-side.
- One vehicle is airborne and makes contact with its front or undercarriage to the other vehicle’s hood or top.
- Cargo or other load on one motor vehicle in-transport shifts and lands or is thrown into/onto another vehicle.
- The tire of one motor vehicle in-transport throws a stone through the windshield of another vehicle.

- A vehicle occupant or motorcyclist falls or is thrown from a vehicle striking or is struck by another vehicle.

If a police crash report data element is coded with the attribute “Other” but the officer does not specify what this refers to:

1. Code **11 (Other)** if the police crash report attribute choices can be matched to or include all the attributes in FARS/CRSS.
2. Code **98 (Not Reported)** if the police crash report choices cannot be matched to or include all the attributes in FARS/CRSS.

**98 (Not Reported)** Check to see if [00 \(The First Harmful Event was Not a Collision with a Motor Vehicle In-Transport\)](#) or [99 \(Reported as Unknown\)](#) is more appropriate for the situation.

If a State’s crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered “**Not Reported.**”

**Code 98 (Not Reported)** in these two situations:

1. No field or coding block exists on the State’s crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State’s crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State’s crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

**99 (Reported as Unknown)** is used when police indicate unknown.

**Consistency Checks** [\(See Section 400\)](#):

| Error ID | IF                                                            | THEN                                                                                                                                                                                                      |
|----------|---------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 420P     | MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 07, 08, | there must be at least two vehicle forms with AREAS OF IMPACT-INITIAL CONTACT POINT equal to 01-05, 07-11, 61-63, 81-83, 98, 99.                                                                          |
| 421P     | MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 01,     | AREAS OF IMPACT-INITIAL CONTACT POINT for one vehicle in the FIRST HARMFUL EVENT must equal 12, and AREAS OF IMPACT-INITIAL CONTACT POINT for the other vehicle in the FIRST HARMFUL EVENT must equal 06. |



| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                      | <b>THEN</b>                                                                                                                                                                                                                                              |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 422P            | MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 02,                                                                                                                                                      | AREAS OF IMPACT-INITIAL CONTACT POINT for one vehicle in the FIRST HARMFUL EVENT must equal 12, and AREAS OF IMPACT- INITIAL CONTACT POINT for the other vehicle in the FIRST HARMFUL event must equal 12.                                               |
| 423P            | MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 06,                                                                                                                                                      | AREAS OF IMPACT-INITIAL CONTACT POINT for one vehicle in the FIRST HARMFUL EVENT must equal 01, 11, 12, 98, 99, and AREAS OF IMPACT-INITIAL CONTACT POINT for the other vehicle in the FIRST HARMFUL EVENT must equal 01-05, 07-11, 61-63, 81-83 98, 99. |
| 424P            | MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 09,                                                                                                                                                      | AREAS OF IMPACT-INITIAL CONTACT POINT for one vehicle in the FIRST HARMFUL EVENT should equal 06, and AREAS OF IMPACT-INITIAL CONTACT POINT for the other vehicle in the FIRST HARMFUL EVENT should equal 01-05, 07-11, 61-63, 81-83, 98, 99.            |
| 425P            | MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 10,                                                                                                                                                      | AREAS OF IMPACT- INITIAL CONTACT POINT for one vehicle in the FIRST HARMFUL EVENT should equal 06, and AREAS OF IMPACT- INITIAL CONTACT POINT for the other vehicle in the FIRST HARMFUL EVENT should equal 06, 98, 99.                                  |
| 426P            | MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 02,                                                                                                                                                      | CRASH TYPE must not equal 64-67 for the vehicles involved in the FIRST HARMFUL EVENT.                                                                                                                                                                    |
| 427P            | MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 06,                                                                                                                                                      | CRASH TYPE must not equal 20-43 or 50-53 for the vehicles involved in the FIRST HARMFUL EVENT.                                                                                                                                                           |
| 500F            | FIRST HARMFUL EVENT equals 01-11, 14-21, 23-26, 30-35, 44-53, 57-59, 72, 73, or 98,                                                                                                                            | MANNER OF COLLISION OF THE FIRST HARMFUL EVENT must not equal 01, 02, 06-11, 98, 99.                                                                                                                                                                     |
| 510F            | FIRST HARMFUL EVENT equals 12, 54, 55,                                                                                                                                                                         | MANNER OF COLLISION OF THE FIRST HARMFUL EVENT must not equal 00.                                                                                                                                                                                        |
| 9BAP            | MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 07, and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 10 or 11 for neither one of the vehicles involved in the FIRST HARMFUL EVENT, | CRASH TYPE should equal 44-49, 98, 99 for the vehicles involved in the FIRST HARMFUL EVENT.                                                                                                                                                              |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                      | <b>THEN</b>                                                                                 |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| 9BCP            | MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 08, and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 10 or 11 for neither one of the vehicles involved in the FIRST HARMFUL EVENT, | CRASH TYPE should equal 64-67, 98, 99 for the vehicles involved in the FIRST HARMFUL EVENT. |
| 9BDP            | MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 01,                                                                                                                                                      | CRASH TYPE should not equal 44-49 for the vehicles involved in the FIRST HARMFUL EVENT.     |
| A370            | FIRST HARMFUL EVENT equals 99,                                                                                                                                                                                 | MANNER OF COLLISION OF THE FIRST HARMFUL EVENT should not equal 00, 01-11.                  |
| AC1A            | FIRST HARMFUL EVENT equals 54,                                                                                                                                                                                 | MANNER OF COLLISION OF THE FIRST HARMFUL EVENT should equal 11.                             |
| BZ80            | MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 00,                                                                                                                                                      | CRASH TYPE must equal 00, 01-16, 92, 98, 99 for the vehicle in the FIRST HARMFUL EVENT.     |
| U030            | UNLIKELY: FIRST HARMFUL EVENT equals 12, 55, and MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 10, 11.                                                                                                 | --                                                                                          |

## C21 - Relation to Junction

**FORMAT:** 1 numeric occurring 1 time, 2 numeric occurring 1 time

**SAS NAME:** Accident.RELJCT1, Accident.RELJCT2

**ELEMENT VALUES:**

### C21a: Within Interchange Area?

| Codes | Attributes                          |
|-------|-------------------------------------|
| 0     | <a href="#">No</a>                  |
| 1     | <a href="#">Yes</a>                 |
| 8     | <a href="#">Not Reported</a>        |
| 9     | <a href="#">Reported as Unknown</a> |

### C21b: Specific Location

| Codes | Attributes                                             |
|-------|--------------------------------------------------------|
| 01    | <a href="#">Non-Junction</a>                           |
| 02    | <a href="#">Intersection</a>                           |
| 03    | <a href="#">Intersection-Related</a>                   |
| 05    | <a href="#">Entrance/Exit Ramp Related</a>             |
| 20    | <a href="#">Entrance/Exit Ramp</a>                     |
| 06    | <a href="#">Railway Grade Crossing</a>                 |
| 07    | <a href="#">Crossover-Related</a>                      |
| 04    | <a href="#">Driveway Access</a>                        |
| 08    | <a href="#">Driveway Access Related</a>                |
| 16    | <a href="#">Shared-Use Path Crossing</a>               |
| 17    | <a href="#">Acceleration/Deceleration Lane</a>         |
| 18    | <a href="#">Through Roadway</a>                        |
| 19    | <a href="#">Other Location Within Interchange Area</a> |
| 98    | <a href="#">Not Reported</a>                           |
| 99    | <a href="#">Reported as Unknown</a>                    |

**Definition:** The coding of this data element is done in two subfields and based on the location of the [FIRST HARMFUL EVENT](#) of the crash. It identifies the crash's location with respect to presence in an interchange area and the crash's location with respect to presence in or proximity to components typically in junction or interchange areas.

**Remarks:**

**CRSS SPECIAL INSTRUCTION:**

*As of 2020, CRSS coders must use the Geolocator tool provided in RBIS to assist in coding the element **RELATION TO JUNCTION**. This tool must be used to assist with coding only this data element. If the crash report does not provide enough detail to code this element and you are unable to pinpoint the location, you may code 8 (Not Reported) for Subfield 1 or 98 (Not Reported) for Subfield 2, or Not Reported for both.*

**Subfield 1 (C21a): Within Interchange Area?**

**Interchange:** An interchange is a system of interconnecting roadways in conjunction with one or more grade separations, providing for the movement of traffic between two or more roadways on different levels.

See the [Coding Guide: Interchanges](#) for helpful information.

**0 (No)** is used if the [FIRST HARMFUL EVENT](#) of the crash occurs outside of the boundaries of an interchange.

**1 (Yes)** is used if the location of the [FIRST HARMFUL EVENT](#) of the crash is within an interchange area.

**8 (Not Reported)** Check to see if [0 \(No\)](#) or [9 \(Reported as Unknown\)](#) are more appropriate for the situation. If a State's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "Not Reported."

Code **8 (Not Reported)** in these two situations:

1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

**9 (Reported as Unknown)** is used when police indicate unknown.

## **Subfield 2 (C21b): Specific Location**

**01 (Non-Junction)** is used for crashes where the [FIRST HARMFUL EVENT](#) occurs **outside** an interchange area and does not occur in or related to a junction, ramp, rail grade crossing, crossover, or shared-use path or trail. This attribute includes crashes that occur on a parking lot way (access Road) at the connection of a parking aisle. (See [Figure 4](#).)

**02 (Intersection)** is used when the [FIRST HARMFUL EVENT](#) occurs in an area that: (1) contains a crossing or connection of two or more roadways not classified as a driveway access, and (2) is embraced within the prolongation of the lateral curb lines or, if none, the lateral boundary lines of the roadways. Where the distance along a roadway between two areas meeting these criteria is less than 10 meters, the two areas and the roadway connecting them are considered to be parts of a single intersection. *See the [Coding Guide: Intersections](#) for helpful information.*

### **FARS SPECIAL INSTRUCTION:**

**In an Intersection, within Interchange Area:** if the [FIRST HARMFUL EVENT](#) occurs within the intersection of a ramp and the surface roadway: It is important to always code [NATIONAL HIGHWAY SYSTEM](#) and [LAND USE AND FUNCTIONAL SYSTEM](#) for the highest class of trafficway at this intersection.

**03 (Intersection-Related)** means that the [FIRST HARMFUL EVENT](#): (1) occurs on an approach to or exit from an intersection and (2) results from an activity, behavior, or control related to the movement of traffic units through the intersection. *See the [Coding Guide: Intersections](#) for helpful information.*

### **Notes:**

- For crashes where the [FIRST HARMFUL EVENT](#) occurs in a crosswalk at an intersection area, use **03 (Intersection-Related)**.
- For Traffic Circles and Roundabouts, enter **02 (Intersection)** when the [FIRST HARMFUL EVENT](#) occurs within the area formed by the prolongation of curb or edge lines of the approach legs of the intersection, regardless of whether or not the collision was in any way related to an intersection. Use **03 (Intersection-Related)** if the [FIRST HARMFUL EVENT](#) occurs in the central island or any directional island that serves the rotary intersection.

**05 (Entrance/Exit Ramp Related)** is used when the [FIRST HARMFUL EVENT](#) occurs off the entrance/exit ramp roadway, but is related to the use of or entry onto the ramp. (See [Figure 3](#).)

**Note:** If the [FIRST HARMFUL EVENT](#) occurs in the intersection of a ramp, then use **02 (Intersection)**. If the [FIRST HARMFUL EVENT](#) occurs on the ramp outside of an intersection of the ramp and the surface roadway and is related to the movement of traffic through the intersection, then use **03 (Intersection-Related)**.

**20 (Entrance/Exit Ramp)** is used when the [FIRST HARMFUL EVENT](#) occurs **on** an entrance or exit ramp roadway and is not the result of an activity, behavior, or control related to the movement of traffic units through an intersection. This would include all the areas between the gore and entrance/exit ramp intersection. (See [Figure 3](#).)

**06 (Railway Grade Crossing)** is used when the [FIRST HARMFUL EVENT](#) occurred in the area formed by the at-grade connection of a railroad bed and a roadway. Crashes occurring outside a railway grade crossing due to traffic congestion associated with a railway grade crossing are considered non-junction.

**07 (Crossover-Related)** is used when the [FIRST HARMFUL EVENT](#) occurs in a crossover or on approach to or exit from a crossover and related to the use of the crossover.

**Note:** A crossover is the area of the median of a divided trafficway where motor vehicles are permitted to cross the opposing lane of traffic or execute a U-turn.

**04 (Driveway Access)** is used when the [FIRST HARMFUL EVENT](#) occurs:

1. on a driveway access ([See ANSI D16.1 Manual 2.5.9](#)) ([See Figure 5.](#))
2. or involves a road vehicle entering or leaving by way of a driveway access where at least one traffic unit (vehicle, pedalcyclist, or pedestrian) is physically on the driveway access within the trafficway.

This attribute includes crashes occurring on sidewalks within the driveway access.

**Examples:**

- A car turning into a private residence driveway strikes a bicyclist riding on the sidewalk that crosses over the driveway access.
- A tractor trailer backing out of a business entrance onto the trafficway, while partially on the driveway access, is struck by a car on the roadway.

**08 (Driveway Access Related)** is used when the [FIRST HARMFUL EVENT](#):

1. occurs adjacent to a driveway,
2. does not occur on a [04 \(Driveway Access\)](#), but
3. results from an activity, behavior, or control related to the movement of traffic units onto or out of a driveway ([See ANSI D16.1 Manual 2.5.9.1](#)). ([See Figure 5.](#))

**Examples:**

- A vehicle attempting to turn left into a driveway from the eastbound lanes is struck broadside by another vehicle traveling in the westbound lanes,
- A vehicle that has just entered the trafficway from a driveway is struck in the rear before it can gain speed.

**Note:** When a driveway access junction is within an intersection and the crash would meet the criteria of driveway access or driveway access related, enter [02 \(Intersection\)](#) if the [FIRST HARMFUL EVENT](#) was within the boundaries of the intersection or [03 \(Intersection-Related\)](#) if it was not, but related to the intersection.

**Note:** If there is not sufficient detail available to differentiate between driveway access and driveway access related, but it is known that the vehicle was coming out of (or going into) a driveway, default to **08 (Driveway Access Related)**. ([See Figure 5.](#))

**16 (Shared-Use Path Crossing)** is used when the [FIRST HARMFUL EVENT](#) occurs at the crossing of a roadway and a shared-use path (see **Note** below for the definition of a shared use

path). At least one non-motorist has to be physically in the crossing of the roadway and the shared-use path, and the crash has to be related to the use of it. If the crossing of a roadway and a shared-use path overlaps/coincides with a crosswalk in a non-intersection area (e.g., mid-block), then select **16 (Shared-Use Path Crossing)**.

**Note:** A shared-use path is a bikeway **physically separated** from motorized vehicular traffic by an open space or barrier and either within the highway right of way or an independent right of way. Shared-use paths will also be used by pedestrians, skaters, wheelchairs, joggers, and other non-motorist users. A shared-use path is not a sidewalk, and where a shared-use path crosses another land way is similar to, but not, a crosswalk. A shared-use path crossing may overlap/coincide with a crosswalk.

**17 (Acceleration/Deceleration Lane)** is used when the [FIRST HARMFUL EVENT](#) occurs on the roadway in an interchange area on an auxiliary or speed-change lane that allows vehicles to accelerate to highway speeds before entering the through roadway or decelerate to safe speeds to negotiate a ramp without interrupting traffic flow on the through roadway exited. (See [Figure 3](#).)

**18 (Through Roadway)** (See [Figure 3](#).) is used when the [FIRST HARMFUL EVENT](#) occurs on the roadway within an interchange area but **does not** occur:

- In an intersection or related to an intersection - [02 \(Intersection\)](#) or [03 \(Intersection - Related\)](#).
- On a [20 \(Entrance/Exit Ramp\)](#) or related to the use of the ramp - [05 \(Entrance/Exit Ramp Related\)](#).
- In a [17 \(Acceleration/Deceleration Lane\)](#).

**19 (Other Location Within Interchange Area)** is used when the [FIRST HARMFUL EVENT](#) occurs within an Interchange, off the roadway (e.g., median, shoulder, roadside) and is not related to the use of or the entry onto a ramp. (See [Figure 3](#).)

**Examples:**

- A vehicle on the through roadway portion of the interchange departs the roadway and overturns in the median.
- A vehicle leaves the through roadway portion of the interchange and strikes a vehicle parked on the shoulder.

**98 (Not Reported)** *Check to see if [99 \(Reported as Unknown\)](#) is more appropriate for the situation.*

If a State's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported.**"

Code **98 (Not Reported)** in these two situations:

1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any FARS/CRSS

attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

**99 (Reported as Unknown)** is used when police indicate unknown.

Valid Combinations for Subfield 1 and Subfield 2

| If <a href="#">Subfield TWO</a> is coded:        | <a href="#">Subfield ONE</a> may only be coded as:                             |
|--------------------------------------------------|--------------------------------------------------------------------------------|
| <b>01</b> Non-Junction                           | <b>0</b> No                                                                    |
| <b>02</b> Intersection                           | <b>0</b> No, <b>1</b> Yes, <b>8</b> Not Reported, <b>9</b> Reported as Unknown |
| <b>03</b> Intersection-Related                   | <b>0</b> No, <b>1</b> Yes, <b>8</b> Not Reported, <b>9</b> Reported as Unknown |
| <b>04</b> Driveway Access                        | <b>0</b> No, <b>1</b> Yes, <b>8</b> Not Reported, <b>9</b> Reported as Unknown |
| <b>05</b> Entrance/Exit Ramp Related             | <b>0</b> No, <b>1</b> Yes, <b>8</b> Not Reported, <b>9</b> Reported as Unknown |
| <b>06</b> Railway Grade Crossing                 | <b>0</b> No                                                                    |
| <b>07</b> Crossover Related                      | <b>0</b> No, <b>1</b> Yes, <b>8</b> Not Reported, <b>9</b> Reported as Unknown |
| <b>08</b> Driveway Access Related                | <b>0</b> No, <b>1</b> Yes, <b>8</b> Not Reported, <b>9</b> Reported as Unknown |
| <b>16</b> Shared-Use Path or Trail               | <b>0</b> No, <b>1</b> Yes, <b>8</b> Not Reported, <b>9</b> Reported as Unknown |
| <b>17</b> Acceleration/Deceleration Lane         | <b>1</b> Yes                                                                   |
| <b>18</b> Through Roadway                        | <b>1</b> Yes                                                                   |
| <b>19</b> Other Location Within Interchange Area | <b>1</b> Yes                                                                   |
| <b>20</b> Entrance/Exit Ramp                     | <b>0</b> No, <b>1</b> Yes, <b>8</b> Not Reported, <b>9</b> Reported as Unknown |
| <b>98</b> Not Reported                           | <b>0</b> No, <b>1</b> Yes, <b>8</b> Not Reported, <b>9</b> Reported as Unknown |
| <b>99</b> Reported as Unknown                    | <b>0</b> No, <b>1</b> Yes, <b>8</b> Not Reported, <b>9</b> Reported as Unknown |

**Figure 3** below will help identify RELATION TO JUNCTION codes [05 \(Entrance/Exit Ramp Related\)](#), [17 \(Acceleration/Deceleration Lane\)](#), [18 \(Through Roadway\)](#), [19 \(Other Location Within Interchange Area\)](#), and [20 \(Entrance/Exit Ramp\)](#).



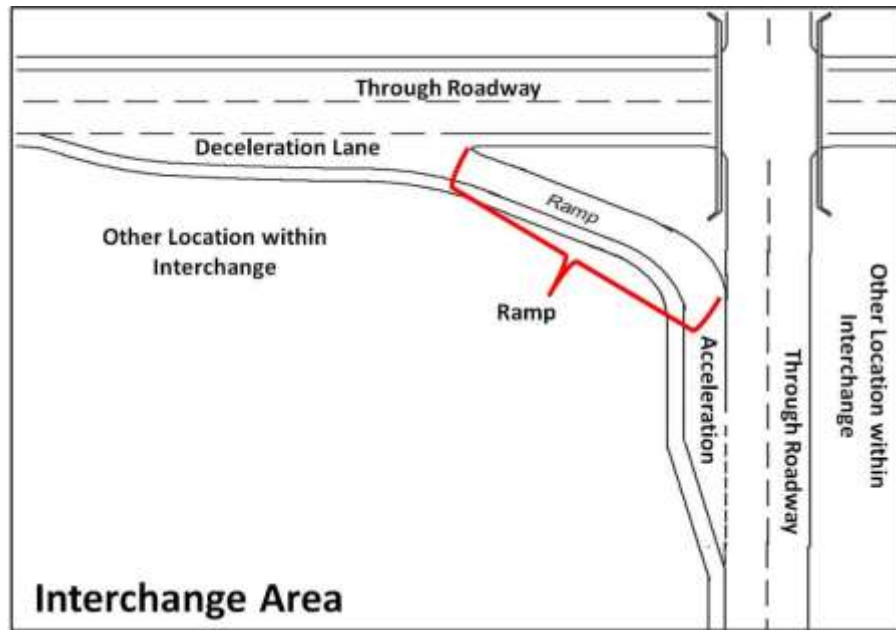


Figure 3: Interchange Area  
 (See ANSI D16.1 - 2007, 7th Edition)

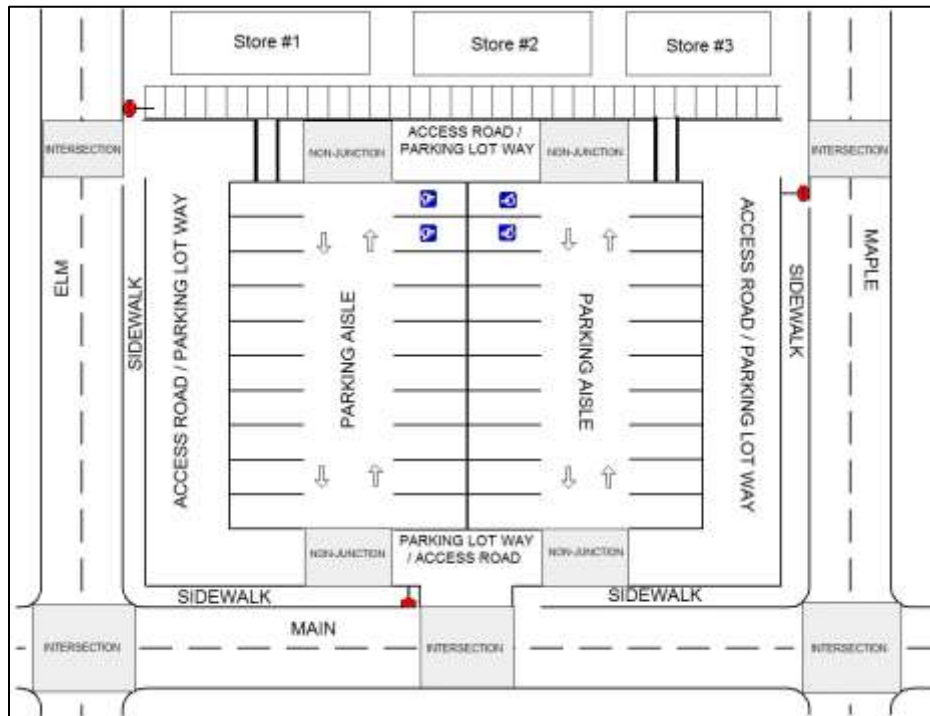


Figure 4: Example Parking Lot Area  
 (01 (Non-junction), 02 (Intersection))

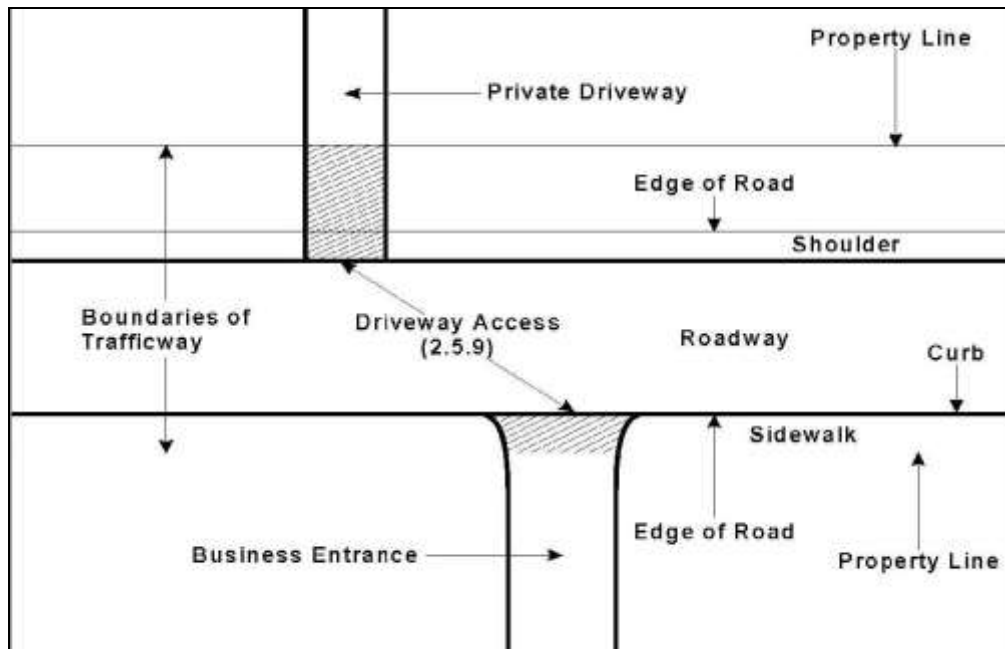


Figure 5: Driveway Access

([See ANSI D16.1 - 2017, 8th Edition](#))

**Figure 6** below will help identify if the crash occurred within an Interchange Area for RELATION TO JUNCTION (C21a) - **Within Interchange Area**.

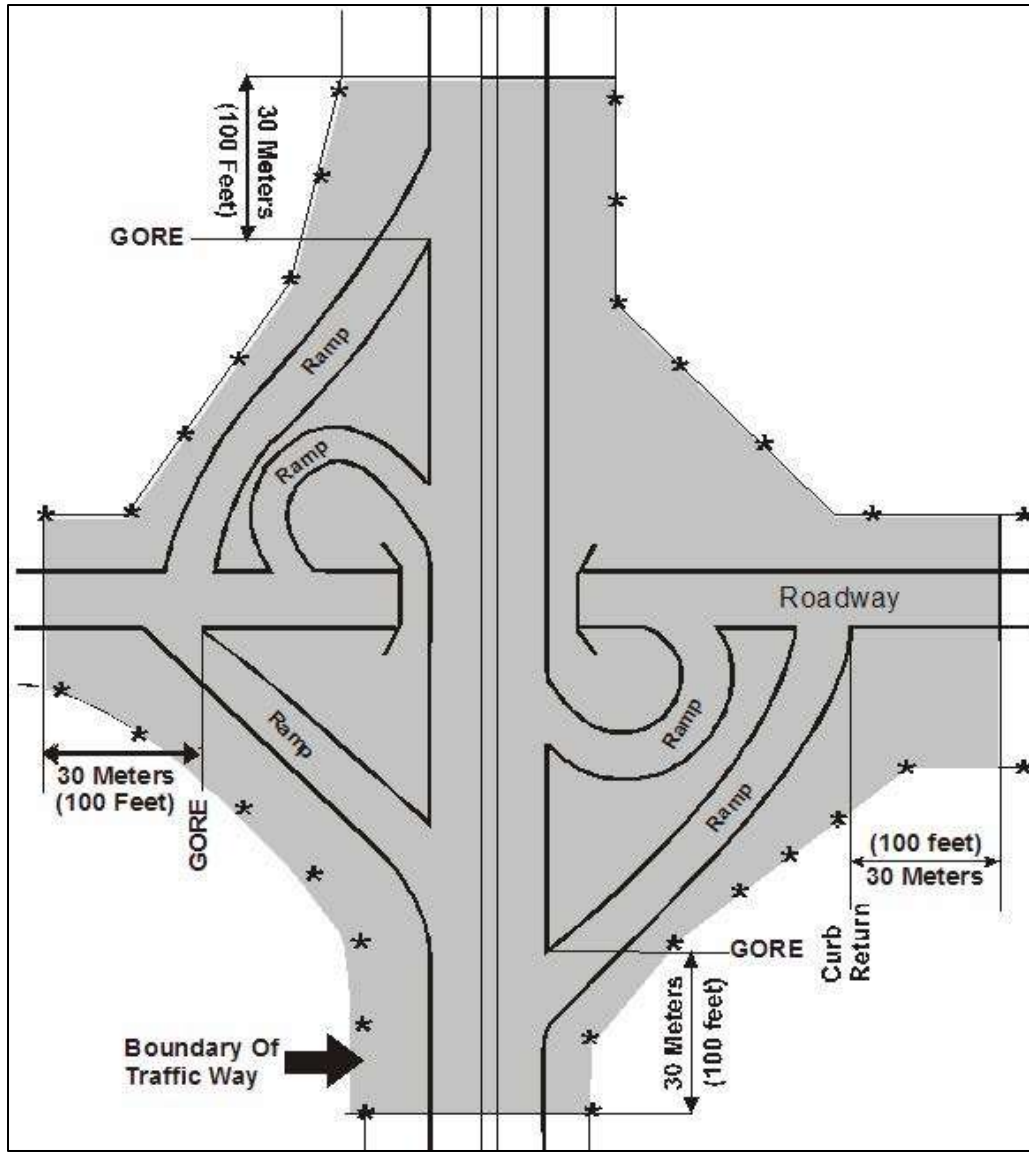


*Figure 6: Interchange Crashes*

Crashes that occur within the shaded area are interchange Crashes  
[\(see ANSI D16.1 - 2017, 8th Edition\)](#).

**Consistency Checks [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                                                                                                  | <b>THEN</b>                                                                                                |
|-----------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| 250P            | RELATION TO JUNCTION (b) equals 01, 02, 04, 06, 07, 16-19, 98, 99, and RELATION TO TRAFFICWAY equals 03,   | TRAFFICWAY DESCRIPTION should equal 2, 3 for at least one vehicle involved in the first harmful event.     |
| 254P            | RELATION TO TRAFFICWAY equals 01, and RELATION TO JUNCTION (b) equals 20,                                  | TRAFFICWAY DESCRIPTION must equal 6 for at least one vehicle involved in the FIRST HARMFUL EVENT.          |
| 258P            | RELATION TO JUNCTION (b) is 05 or 20                                                                       | TRAFFICWAY DESCRIPTION should equal 6 for <b>at least one</b> vehicle involved in the FIRST HARMFUL EVENT. |
| 3E00            | CRITICAL EVENT - PRECRASH (EVENT) equals 65-68 or 70-73 for a vehicle involved in the FIRST HARMFUL EVENT, | RELATION TO JUNCTION (b) should not equal 01 or 18.                                                        |
| 740P            | RELATION TO JUNCTION (b) equals 07,                                                                        | TRAFFICWAY DESCRIPTION must equal 2, 3 for at least one vehicle.                                           |
| 770P            | RELATION TO TRAFFICWAY equals 07,                                                                          | RELATION TO JUNCTION (b) must equal 01, 03, 08, 19, 98, 99.                                                |
| 772P            | RELATION TO TRAFFICWAY equals 07,                                                                          | RELATION TO JUNCTION (a) must not equal 1.                                                                 |
| 773P            | RELATION TO JUNCTION (b) equals 01,                                                                        | RELATION TO JUNCTION (a) must equal 0.                                                                     |
| 773Q            | RELATION TO JUNCTION(b) equals 04, 06, 07, or 16,                                                          | RELATION TO JUNCTION (a) should not equal 1.                                                               |
| 775P            | RELATION TO JUNCTION (b) equals 17 or 18 or 19,                                                            | RELATION TO JUNCTION (a) must equal 1.                                                                     |
| 778P            | RELATION TO JUNCTION (b) equals 01, 04-08, 16-20,                                                          | TYPE OF INTERSECTION must equal 01.                                                                        |
| 77AP            | CRASH TYPE equals 14,                                                                                      | RELATION TO JUNCTION (b) must not equal 02.                                                                |
| 77BP            | CRASH TYPE equals 68-91,                                                                                   | RELATION TO JUNCTION (b) should not equal 01.                                                              |
| 77CP            | CRASH TYPE equals 14,                                                                                      | RELATION TO JUNCTION (b) should equal 01, 03, 19.                                                          |
| 77DP            | RELATION TO TRAFFICWAY equals 07, and RELATION TO JUNCTION (a) equals 1,                                   | RELATION TO JUNCTION (b) should not equal 03, 08.                                                          |
| 780P            | RELATION TO TRAFFICWAY equals 10,                                                                          | RELATION TO JUNCTION (b) must not equal 02, 04, 08.                                                        |
| 782P            | TYPE OF INTERSECTION equals 02-07, 10, <b>or 11</b> ,                                                      | RELATION TO JUNCTION (b) must equal 02, 03.                                                                |

| <b>Error ID</b> | <b>IF</b>                                                                                                                   | <b>THEN</b>                                                                                                                                                   |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 783P            | RELATION TO JUNCTION (b) equals 98, 99,                                                                                     | TYPE OF INTERSECTION should equal 01, 98, 99.                                                                                                                 |
| 784P            | TYPE OF INTERSECTION equals 01,                                                                                             | RELATION TO JUNCTION (b) must not equal 02, 03.                                                                                                               |
| A131            | RELATION TO JUNCTION (b) equals 02, 04, 06, 16, 17, or 20,                                                                  | RELATION TO TRAFFICWAY must equal 01.                                                                                                                         |
| A141            | RELATION TO JUNCTION (b) equals 18,                                                                                         | RELATION TO TRAFFICWAY must equal 01 or 11.                                                                                                                   |
| A1B0            | TRAFFIC CONTROL DEVICE equals 20, 21 for a vehicle involved in the FIRST HARMFUL EVENT,                                     | RELATION TO JUNCTION (b) should not equal 01, 18.                                                                                                             |
| A1E0            | RELATION TO JUNCTION (b) equals 19,                                                                                         | RELATION TO TRAFFICWAY must not equal 01, 11, 98, <b>or</b> 99.                                                                                               |
| A293            | WORK ZONE equals 1-3, and RELATION TO JUNCTION (b) equals 02, 03,                                                           | TRAFFIC CONTROL DEVICE should equal 01-03, 20, 40, 97, or 98 for the vehicle(s) involved in the FIRST HARMFUL EVENT.                                          |
| A294            | WORK ZONE equals 1-3, and RELATION TO JUNCTION (b) equals 01, 04, 05, 08, 17-19,                                            | TRAFFIC CONTROL DEVICE should equal 00, 21, 28, 40, 50, 97, or 98 for the vehicle(s) involved in the FIRST HARMFUL EVENT.                                     |
| A420            | FIRST HARMFUL EVENT equals 10,                                                                                              | RELATION TO JUNCTION (b) should equal 06.                                                                                                                     |
| A430            | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 10-11 for a vehicle involved in the FIRST HARMFUL EVENT, | RELATION TO JUNCTION (b) should not equal 01, 18.                                                                                                             |
| A440            | RELATION TO JUNCTION (b) equals 06,                                                                                         | TRAFFIC CONTROL DEVICE should equal 65 for any vehicle involved in the FIRST HARMFUL EVENT.                                                                   |
| A481            | TRAFFICWAY DESCRIPTION equals 6, and RELATION TO JUNCTION (b) does not equal 02, 03,                                        | TOTAL LANES IN ROADWAY should equal 1, 2, 8, 9.                                                                                                               |
| A4C0            | RELATION TO JUNCTION (b) equals 04,                                                                                         | at least one PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) for the vehicles involved in the FIRST HARMFUL EVENT should equal 10, 11, 13, or 98. |
| A610            | RELATION TO TRAFFICWAY equals 01, and RELATION TO JUNCTION (b) equals 05,                                                   | TRAFFICWAY DESCRIPTION should equal 6 for at least one vehicle involved in the FIRST HARMFUL EVENT.                                                           |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                | <b>THEN</b>                                                                                                                                     |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| A611            | TRAFFICWAY DESCRIPTION equals 6 for at least one vehicle involved in the FIRST HARMFUL EVENT,                                                            | RELATION TO JUNCTION (b) should equal 02, 03, 05, 17-20.                                                                                        |
| A790            | FIRST HARMFUL EVENT equals 46,                                                                                                                           | RELATION TO JUNCTION (b) should not equal 01, 07.                                                                                               |
| A890            | RELATION TO JUNCTION (b) equals 01,                                                                                                                      | TRAFFIC CONTROL DEVICE should not equal 01- <b>04, 20, or 21</b> for any vehicle involved in the FIRST HARMFUL EVENT.                           |
| A891            | RELATION TO JUNCTION (b) equals 98 or 99,                                                                                                                | TRAFFIC CONTROL DEVICE should not equal 01, 02, 03, 20, 21, or 65 for a vehicle involved in the FIRST HARMFUL EVENT.                            |
| AZ5P            | CRITICAL EVENT-PRECRASH (EVENT) equals 70-73 for a vehicle involved in the FIRST HARMFUL EVENT,                                                          | RELATION TO JUNCTION (b) should equal 04 or 08.                                                                                                 |
| D530            | any VIOLATIONS CHARGED equal 36 for a vehicle involved in the FIRST HARMFUL EVENT,                                                                       | RELATION TO JUNCTION (b) should equal 06.                                                                                                       |
| PB04            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN for a person involved in the FIRST HARMFUL EVENT equals 211, 212, 461, 465, 680, 830, 890, 900, or 910, | RELATION TO JUNCTION (b) must not equal 02. Note: this edit is restricted to vehicles which are involved in only one event with pedestrian(s).  |
| PB07            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLE for a person involved in the FIRST HARMFUL EVENT equals 311, 312, 313, 321, 322, or 323,                   | RELATION TO JUNCTION (b) must equal 04 or 08. Note: this edit is restricted to vehicles which are involved in only one event with bicyclist(s). |
| PB08            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLE for a person involved in the FIRST HARMFUL EVENT equals 141-144, 147, 151-157, or 159,                     | RELATION TO JUNCTION (b) must equal 02 or 03. Note: this edit is restricted to vehicles which are involved in only one event with bicyclist(s). |
| PB34            | NUMBER OF FORMS SUBMITTED FOR PERSONS NOT IN MOTOR VEHICLES equals 01, and FIRST HARMFUL EVENT equals 08, and RELATION TO JUNCTION (b) equals 02,        | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN must not equal 320, 330, 360, 680, 830, 890, 900, or 910.                                      |
| PB35            | NUMBER OF FORMS SUBMITTED FOR PERSONS NOT IN MOTOR VEHICLES equals 01, and FIRST HARMFUL EVENT equals 08, and RELATION TO JUNCTION (b) equals 02,        | PEDESTRIAN/BIKE TYPING - CRASH LOCATION - PEDESTRIAN must equal 1.                                                                              |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                           | <b>THEN</b>                                            |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| PBA8            | NUMBER OF FORMS SUBMITTED FOR PERSONS NOT IN MOTOR VEHICLES equals 1, and the FIRST HARMFUL EVENT equals 08, 09, or 15, and NON-MOTORIST LOCATION AT TIME OF CRASH equals 01 or 02; | RELATION TO JUNCTION (SPECIFIC LOCATION) must equal 3. |
| PC30            | PRE-IMPACT LOCATION for a vehicle involved in the first harmful event equals 4, 5, and RELATION TO JUNCTION (b) does not equal 04, 05,                                              | RELATION TO TRAFFICWAY should not equal 01 or 11.      |

**Consistency Checks (CRSS Only) ([See Section 400](#)):**

| <b>Error ID</b> | <b>IF</b>                                                                                                                        | <b>THEN</b>                                                                                                                |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| A3G0            | INTERSTATE HIGHWAY equals 1, and RELATION TO JUNCTION (a) equals 1, and RELATION TO JUNCTION (b) is not equal to 03 or 05 or 20, | TOTAL LANES IN ROADWAY should not equal 1 for at least one vehicle involved in the FIRST HARMFUL EVENT.                    |
| A3H0            | INTERSTATE HIGHWAY equals 1, and RELATION TO JUNCTION (a) equals 1, and RELATION TO JUNCTION (b) is not equal to 03 or 05 or 20, | TRAFFICWAY DESCRIPTION should not equal 4 for at least one vehicle involved in the FIRST HARMFUL EVENT.                    |
| A3I0            | INTERSTATE HIGHWAY equals 1,                                                                                                     | RELATION TO JUNCTION (b) should not equal 02, 04, 06, 08, or 16.                                                           |
| A3J0            | INTERSTATE HIGHWAY equals 1, and RELATION TO JUNCTION (a) equals 1, and RELATION TO JUNCTION (b) is not equal to 03 or 05 or 20, | SPEED LIMIT should not equal 01-40 for at least one vehicle involved in the FIRST HARMFUL EVENT.                           |
| A930            | INTERSTATE HIGHWAY equals 1, and RELATION TO JUNCTION (a) equals 1, and RELATION TO JUNCTION (b) is not equal to 03, 05, or 20,  | TRAFFIC CONTROL DEVICE should not equal 01-03, 20, 23, or 65 for at least one vehicle involved in the FIRST HARMFUL EVENT. |

**Consistency Checks (FARS Only) ([See Section 400](#)):**

| <b>Error ID</b> | <b>IF</b>                                                                                                                                       | <b>THEN</b>                                                                                     |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| 1F1P            | RELATION TO JUNCTION (b) does not equal 02, 03,                                                                                                 | the second TRAFFICWAY IDENTIFIER should be blank.                                               |
| 1Y0P            | RELATION TO JUNCTION (b) equals 06,                                                                                                             | RAIL GRADE CROSSING IDENTIFIER must not equal 0000000.                                          |
| 750P            | RELATION TO JUNCTION (b) equals 07,                                                                                                             | RAIL GRADE CROSSING IDENTIFIER must equal 0000000.                                              |
| A150            | LAND USE AND FUNCTIONAL SYSTEM (b) equals 01, 02, and RELATION TO JUNCTION (a) equals 0,                                                        | RELATION TO JUNCTION (b) should not equal 02-04, 06, 08.                                        |
| <b>A16A</b>     | <b><i>FUNCTIONAL SYSTEM equals 1, and STATE does not equal 02, and RELATION TO JUNCTION equals 01, 07, 18, or 19,</i></b>                       | <b><i>TRAFFICWAY DESCRIPTION should equal 2 or 3.</i></b>                                       |
| A200            | RELATION TO JUNCTION (b) equals 07,                                                                                                             | LAND USE AND FUNCTIONAL SYSTEM (b) should not equal 06, 07, or 96.                              |
| A210            | LAND USE AND FUNCTIONAL SYSTEM (b) equals 01, 02, and RELATION TO JUNCTION (a) equals 0,                                                        | TRAFFIC CONTROL DEVICE should not equal 01-04, 07, 20, 23, 40, 50, 65.                          |
| A220            | LAND USE AND FUNCTIONAL SYSTEM (b) equals 01, 02, and RELATION TO JUNCTION (a) equals 0,                                                        | SPEED LIMIT should not equal 05-40 for any vehicle.                                             |
| A240            | LAND USE AND FUNCTIONAL SYSTEM (b) equals 01, and RELATION TO JUNCTION (a) equals 0,                                                            | TRAVEL SPEED should not equal 005-040 for any vehicle.                                          |
| A250            | LAND USE AND FUNCTIONAL SYSTEM (b) equals 01-03, and RELATION TO JUNCTION (a) equals 1, and RELATION TO JUNCTION (b) does not equal 03, 05, 20, | TOTAL LANES IN ROADWAY should not equal 1 for the vehicles involved in the FIRST HARMFUL EVENT. |
| A290            | ROUTE SIGNING equals 1, and RELATION TO JUNCTION (a) equals 0,                                                                                  | RELATION TO JUNCTION (b) should not equal 02-04, 06, 08 16.                                     |
| A291            | RELATION TO JUNCTION (b) equals 07,                                                                                                             | ROUTE SIGNING should not equal 5, 6.                                                            |
| A310            | ROUTE SIGNING equals 1, and RELATION TO JUNCTION (a) equals 0,                                                                                  | TOTAL LANES IN ROADWAY should not equal 1 for any vehicle.                                      |
| A320            | ROUTE SIGNING equals 1, and RELATION TO JUNCTION (a) equals 0,                                                                                  | SPEED LIMIT should not equal 05-40 for any vehicle.                                             |
| A360            | RELATION TO JUNCTION (b) equals 07,                                                                                                             | ROUTE SIGNING should not equal 4-8.                                                             |



| <b>Error ID</b> | <b>IF</b>                                                                                                                              | <b>THEN</b>                                                                                                                           |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| A810            | FIRST HARMFUL EVENT equals 46, and<br>RELATION TO JUNCTION (a) equals 1, and<br>RELATION TO JUNCTION (b) does not equal<br>02, 03, 05, | LAND USE AND FUNCTIONAL SYSTEM<br>(b) should not equal 01.                                                                            |
| A820            | FIRST HARMFUL EVENT equals 46, and<br>RELATION TO JUNCTION (a) equals 1, and<br>RELATION TO JUNCTION (b) does not equal<br>02, 03, 05, | ROUTE SIGNING should not equal 1.                                                                                                     |
| AC0A            | RELATION TO JUNCTION (b) equals 02, 03,                                                                                                | the second TRAFFICWAY IDENTIFIER<br>should not be all blank.                                                                          |
| V537            | <b><i>CRASH TYPE equals 68, 69, 82, 83, 86, 87,<br/>88, or 89,</i></b>                                                                 | <b><i>the vehicles involved in the FIRST<br/>HARMFUL EVENT should have a<br/>RELATION TO JUNCTION equal to 02, 04,<br/>or 08.</i></b> |

## C22 - Type of Intersection

**FORMAT:** 2 numeric

**SAS NAME:** Accident.TYP\_INT

**ELEMENT VALUES:**

| Codes     | Attributes                                     |
|-----------|------------------------------------------------|
| 01        | <a href="#">Not an Intersection</a>            |
| 02        | <a href="#">Four-Way Intersection</a>          |
| 03        | <a href="#">T-Intersection</a>                 |
| 04        | <a href="#">Y-Intersection</a>                 |
| 05        | <a href="#">Traffic Circle</a>                 |
| 06        | <a href="#">Roundabout</a>                     |
| 07        | <a href="#">Five-Point, or More</a>            |
| 10        | <a href="#">L-Intersection</a>                 |
| <b>11</b> | <b><a href="#">Other Intersection Type</a></b> |
| 98        | <a href="#">Not Reported</a>                   |
| 99        | <a href="#">Reported as Unknown</a>            |

**Definition:** This element identifies and allows separation of various intersection types.

**Remarks:** The data element value selected should be based on the location of the [FIRST HARMFUL EVENT](#) and is only applicable to intersection or intersection-related crashes.

If it is known that a rotary type of intersection was involved but it is not known if it was a [05 \(Traffic Circle\)](#) or a [06 \(Roundabout\)](#), default to a [05 \(Traffic Circle\)](#).

Intersection refers to an area that 1) contains a crossing or connection of two or more roadways not classified as driveway access, and 2) is embraced within the prolongation of the lateral curb lines, or if none, the lateral boundary lines of the roadways. Where the distance along a roadway between two areas meeting these criteria is less than 33 feet, the two areas and the roadway connecting them are considered to be parts of a single intersection. (See [ANSI D.16 - 2.5.10](#))

**01 (Not an Intersection)** identifies that this crash was not intersection or intersection related.

**02 (Four-Way Intersection)** refers to two roadways that cross or connect.

**03 (T-Intersection)** refers to an intersection where two roadways connect, and one roadway does not continue across the other roadway. The roadways form a “T.”

**04 (Y-Intersection)** refers to an intersection where three roadways connect and none of the roadways continue across the other roadways. The roadways form a “Y.”

**05 (Traffic Circle)** refers to an intersection of roads where motor vehicles must travel around a circle to continue on the same road or leave on any intersecting road.

A **05 (Traffic Circle)** must meet the following criteria:

- Entering traffic is controlled by a stop sign, traffic signal, or by no traffic control
- Parking is allowed within the circle
- Pedestrians are allowed access to the central island
- Circle traffic can be required to yield to entering traffic

**06 (Roundabout)** refers to an intersection of roads where motor vehicles must travel around a circle to continue on the same road or leave on any intersecting road. (See [Figure 7](#) below.) A **06 (Roundabout)** must meet the following criteria:

- Entering traffic is controlled by a yield sign only
- Circulating traffic has the right of way
- Pedestrian access is allowed behind the yield sign line
- No parking is allowed in the circle

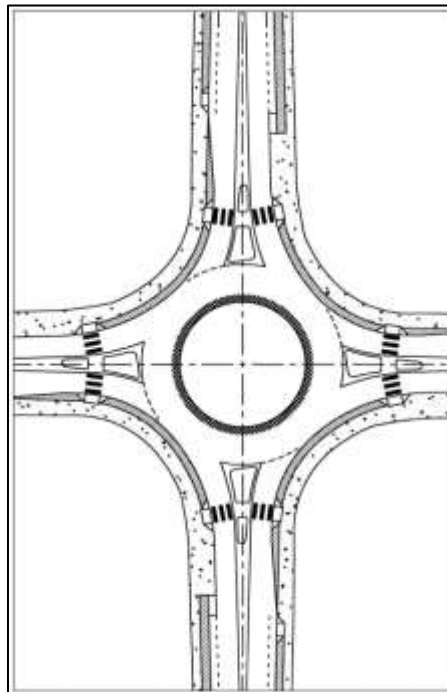


*Figure 7: Example of a Typical Single-Lane Roundabout*

(See [Roundabouts: An Informational Guide - FHWA](#))

**07 (Five-Point, or More)** refers to an intersection where more than two roadways cross or connect.

**10 (L-Intersection)** refers to a two-armed intersection in which one roadway intersects with another roadway but neither roadway extends beyond the other roadway. (Note: This should be configured as an intersection where the arms consist of two different named trafficways.)

**11 (Other Intersection Type)** refers to an intersection design not captured under one of the other attributes.

**98 (Not Reported)** Check to see if [01 \(Not an Intersection\)](#) or [99 \(Reported as Unknown\)](#) are more appropriate for the situation.

If a State's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported.**"

Code **98 (Not Reported)** in these two situations:

1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

**99 (Reported as Unknown)** is used when police indicate unknown.

**Consistency Checks** [\(See Section 400\)](#):

| Error ID    | IF                                                    | THEN                                            |
|-------------|-------------------------------------------------------|-------------------------------------------------|
| 251P        | RELATION TO TRAFFICWAY equals 98, 99,                 | TYPE OF INTERSECTION should equal 98, 99.       |
| 778P        | RELATION TO JUNCTION (b) equals 01, 04-08, 16-20,     | TYPE OF INTERSECTION must equal 01.             |
| 782P        | TYPE OF INTERSECTION equals 02-07, 10, <b>or 11</b> , | RELATION TO JUNCTION (b) must equal 02, 03.     |
| 783P        | RELATION TO JUNCTION (b) equals 98, 99,               | TYPE OF INTERSECTION should equal 01, 98, 99.   |
| 784P        | TYPE OF INTERSECTION equals 01,                       | RELATION TO JUNCTION (b) must not equal 02, 03. |
| <b>U698</b> | <b>UNLIKELY: TYPE OF INTERSECTION equals 11.</b>      | --                                              |

**Consistency Checks (FARS Only)** [\(See Section 400\)](#):

| Error ID | IF                                                    | THEN                                           |
|----------|-------------------------------------------------------|------------------------------------------------|
| 781P     | TYPE OF INTERSECTION equals 02-07, 10, <b>or 11</b> , | TRAFFICWAY IDENTIFIER (b) should not be blank. |

## C23 - Relation to Trafficway

**FORMAT:** 2 numeric

**SAS NAME:** Accident.REL\_ROAD

**ELEMENT VALUES:**

| Codes | Attributes                                                 |
|-------|------------------------------------------------------------|
| 01    | <a href="#">On Roadway</a>                                 |
| 02    | <a href="#">On Shoulder</a>                                |
| 03    | <a href="#">On Median</a>                                  |
| 04    | <a href="#">On Roadside</a>                                |
| 05    | <a href="#">Outside Trafficway</a>                         |
| 06    | <a href="#">Off Roadway - Location Unknown</a>             |
| 07    | <a href="#">In Parking Lane/Zone</a>                       |
| 08    | <a href="#">Gore</a>                                       |
| 10    | <a href="#">Separator</a>                                  |
| 11    | <a href="#">Continuous Left-Turn Lane</a>                  |
| 12    | <a href="#">Pedestrian Refuge Island or Traffic Island</a> |
| 98    | <a href="#">Not Reported</a>                               |
| 99    | <a href="#">Reported as Unknown</a>                        |

**Definition:** This element identifies the location of the crash as it relates to its position within or outside the trafficway based on the [FIRST HARMFUL EVENT](#).

**Remarks:** See the [Coding Guide: Trafficway Components](#) for helpful information.

**01 (On Roadway)** - The roadway is that part of a trafficway designed, improved, and ordinarily used for motor vehicle travel or, where various classes of motor vehicles are segregated, that part of a trafficway used by a particular class. Separate roadways may be provided for northbound and southbound traffic or for trucks and automobiles. Roadway may be noted as the “travel lanes” and, if present, includes the area between the painted “fog lines.” Additionally, a driveway access area is considered part of the roadway of the trafficway to that it connects. This attribute may also be used for cases involving a parked vehicle opening a door into moving traffic, extended mirrors into the travel lane. If a bike lane is immediately adjacent to the curb/edge of the road, code [04 \(On Roadside\)](#). If the bike lane is between lanes of travel or a lane and the parking lane, code **01(On Roadway)**.

**02 (On Shoulder)** (if present) is that part of a trafficway contiguous with the roadway for emergency use, for accommodation of stopped vehicles, and for lateral support of the roadway structure. A shoulder should be improved or maintained for these purposes. Not all roadways have shoulders.

**03 (On Median)** is defined as that area of a divided trafficway between parallel roads separating travel in opposite directions. The principal functions of a median are to provide the desired freedom from interference of opposing traffic, to provide a recovery area for out-of-control vehicles, to provide a stopping area in case of emergencies, and to minimize headlight glare. Medians may be depressed, raised, or flush. Flush medians can be as little as 4-feet wide between roadway edge lines. Painted roadway edge lines four (4) or more feet wide denote medians. Medians of lesser width must have a barrier to be considered a median. Continuous Left-turn Lanes are **not** considered Medians (see [11 \(Continuous Left-Turn Lane\)](#)).

**04 (On Roadside)** refers to a location off the roadway, but inside the right-of-way. It is the outermost part of the trafficway that lays between the outer property line or other barrier and the edge of the first road encountered in the trafficway. Bicycle lanes and shared use path or trails contiguous with the roadway and sidewalks are also included. For cases involving a vehicle that goes off the roadway into a “tree line,” “wood line,” “brush line,” etc. that is adjacent to the roadway, code as **04 (On Roadside)** unless there is specific information available in the case material that identify the [FIRST HARMFUL EVENT](#) was beyond the boundaries of the trafficway (e.g., a “tree line” in a homeowner’s front yard). If a bike lane is immediately adjacent to the curb/edge of the road, code **04 (On Roadside)**. If the bike lane is between lanes of travel or a lane and the parking lane, code [01 \(On Roadway\)](#).

**05 (Outside Trafficway)** is used for areas not open to the public as a matter of right or custom for moving people or property. This includes property beyond the roadside outside the boundaries of the trafficway. Also, a portion of the trafficway closed for construction is not a trafficway and would be considered **05 (Outside Trafficway)**.

**06 (Off Roadway - Location Unknown)** refers to a location off the roadway, but its relationship to the trafficway boundaries/right-of-way is not known. This should only be used when no reasonable assessment can be made as to the location of the [FIRST HARMFUL EVENT](#) because the information in the case is too ambiguous.

**07 (In Parking Lane/Zone)** refers to an area on the roadway, or next to the roadway, on which parking is permitted in marked or unmarked spaces. This includes curbside and edge of-roadway parking (legal residential parking, city-street parking, etc.). Sometimes a strip of roadway can be designated for parking at certain hours of the day (parking lane) and for regular travel at other hours (travel lane). This code should NOT be used during hours when parking is NOT permitted (see [01 \(On Roadway\)](#)).

**08 (Gore)** is an area of land where two roadways diverge or converge. The area is bounded on two sides by the edges of the roadway, which join at the point of divergence or convergence. The direction of traffic must be the same on both of these roadways. The area includes shoulders or marked pavement if any, between the roadways. The third side is 60 meters (approximately 200 feet) from the point of divergence or convergence or, if any other road is within 70 meters (230 feet) of that point, a line 10 meters (33 feet) from the nearest edge of such road. (See [Figure 11](#))

**Gore Inclusions:**

- Areas at rest area or exit ramps
- Areas at truck weight station entry or exit ramps
- Areas where two main roadways diverge or converge

- Areas where a ramp and another roadway, or two ramps, diverge or converge
- Areas where a frontage road and another roadway or two frontage roads diverge or converge

**Gore Exclusions:**

- Islands for channelizing of vehicle movements. Code these as [12 \(Pedestrian Refuge Island or Traffic Island\)](#).
- Islands for pedestrian refuge. Code these as [12 \(Pedestrian Refuge Island or Traffic Island\)](#).

**10 (Separator)** is the area of a trafficway between parallel roads separating travel in the same direction or separating a frontage road from other roads. A **10 (Separator)** may be a physical barrier or a depressed, raised, flush, or vegetated area between roads.

**11 (Continuous Left-Turn Lane)** is a two-way left turn lane positioned between opposing straight-through travel lanes.

**12 (Pedestrian Refuge Island or Traffic Island)** is coded when case material indicate the [FIRST HARMFUL EVENT](#) occurred on a Pedestrian Refuge Island or Traffic Island.

Examples include areas:

- between roadways of a trafficway meant to allow for a non-motorist to pause while traveling from one side of a trafficway to the other side;
- for channelizing the flow of traffic at an intersection;
- in the center of a traffic circle or roundabout;
- dividing the entrance and exit in a driveway access.

**98 (Not Reported)** *Check to see if [99 \(Reported as Unknown\)](#) is more appropriate for the situation.* If a State's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported.**"

Code **98 (Not Reported)** in these two situations:

1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

**99 (Reported as Unknown)** is used when police indicate unknown.

## ***Additional Guidance for Relation to Trafficway***

### **For collision events when the vehicle is overlapping adjacent areas:**

- For [fixed object collisions](#) ([FHE](#)), base RELATION TO TRAFFICWAY on the location of the object struck.
- Fixed objects that are associated with the Trafficway such as curbs, ditches, guardrails, sign supports, utility poles, etc. are not located in the travel lanes or on the shoulder. Therefore, when these fixed objects are contacted in the [FIRST HARMFUL EVENT](#), RELATION TO TRAFFICWAY should be coded with respect to the location of the object contacted (e.g., [04 \(On Roadside\)](#), [03 \(On Median\)](#), [12 \(Pedestrian Refuge Island or Traffic Island\)](#), etc.), regardless of the location of the entire vehicle.
- [Non-fixed object collisions](#) (e.g., striking a vehicle on the shoulder or pedestrian on the sidewalk) when the striking vehicle is overlapping two locations (e.g., roadway and shoulder) are also coded with respect to the object contacted, not the striking vehicle.

### **For Rollover/Overtake crashes when the vehicle is overlapping two locations (e.g., roadway and shoulder) when the roll begins:**

- When a vehicle begins an overturn and is overlapping two locations at the onset of the overturn, use the LAST area the vehicle entered as the location. For example, [04 \(On Roadside\)](#) would be correct for a case where the documentation identifies a vehicle runs off the roadway, partially through the shoulder, and the front wheels enter the roadside.

### **Default rules for the location of Ditches, Culverts, Embankments, and Fences:**

- Unless there is clear reason to believe otherwise in the case material, ditches, culverts, and embankments are design features common to Trafficways. Therefore, if included as the FHE the appropriate RELATION TO TRAFFICWAY is [04 \(On Roadside\)](#).
- All fences are considered [05 \(Outside Trafficway\)](#) unless, the case material specifically identify the fence is within the trafficway property lines (e.g., a snow fence in the median, or fence identified as government property delineating the right of way and/or property line).

### **Consistency Checks ([See Section 400](#)):**

| <b>Error ID</b> | <b>IF</b>                                                                                                | <b>THEN</b>                                                                                            |
|-----------------|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| 250P            | RELATION TO JUNCTION (b) equals 01, 02, 04, 06, 07, 16-19, 98, 99, and RELATION TO TRAFFICWAY equals 03, | TRAFFICWAY DESCRIPTION should equal 2, 3 for at least one vehicle involved in the FIRST HARMFUL EVENT. |
| 251P            | RELATION TO TRAFFICWAY equals 98, 99,                                                                    | TYPE OF INTERSECTION should equal 98, 99.                                                              |
| 252P            | RELATION TO TRAFFICWAY equals 01, 02, 03, 04, 07, 08, 10, 11, 12, 98, or 99,                             | UNIT TYPE for VEHICLE NUMBER (OTHER VEHICLE) involved in the FIRST HARMFUL EVENT must not equal 3.     |



| <b>Error ID</b> | <b>IF</b>                                                                                                                                                  | <b>THEN</b>                                                                                                                                                |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 253P            | RELATION TO TRAFFICWAY equals 03,                                                                                                                          | CRASH TYPE should equal 06-10, 98, or 99 for the in-transport vehicles involved in the FIRST HARMFUL EVENT.                                                |
| 254P            | RELATION TO TRAFFICWAY equals 01, and RELATION TO JUNCTION (b) equals 20,                                                                                  | TRAFFICWAY DESCRIPTION must equal 6 for at least one vehicle involved in the FIRST HARMFUL EVENT.                                                          |
| 255P            | RELATION TO TRAFFICWAY equals 01 or 11,                                                                                                                    | UNIT TYPE for VEHICLE NUMBER (THIS VEHICLE) involved in the FIRST HARMFUL EVENT must equal 1.                                                              |
| 256P            | RELATION TO TRAFFICWAY equals 01 or 11,                                                                                                                    | UNIT TYPE for VEHICLE NUMBER (OTHER VEHICLE) involved in the FIRST HARMFUL EVENT should equal 1 or 4.                                                      |
| 257P            | RELATION TO TRAFFICWAY equals 05,                                                                                                                          | UNIT TYPE for VEHICLE NUMBER (OTHER VEHICLE) involved in the FIRST HARMFUL EVENT must equal 1, 3, or 4.                                                    |
| 42AP            | NUMBER OF MOTOR VEHICLE FORMS SUBMITTED equals 001, and RELATION TO TRAFFICWAY equals 02, 04, 06-08, 12, and ATTEMPTED AVOIDANCE MANEUVER equals 00 or 01, | CRITICAL EVENT - PRECRASH (EVENT) should equal 01-06, 08-14, or 19.                                                                                        |
| 440F            | FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 01,                                                                               | there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 01-03, 09-11, 13, 16, 23, 98, or 99. |
| 450F            | FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 07,                                                                               | there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 14.                                  |
| 460F            | FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 02,                                                                               | there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 02, 20.                              |
| 470F            | FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 03, 08, 10, 12,                                                                   | there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 20, 22, 28, 98, 99.                  |
| 480F            | FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 04, 06,                                                                           | there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 09, 16, 20, 21, 24, 25, 28, 98, 99.  |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                    | <b>THEN</b>                                                                                                                                                         |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 490F            | FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 05,                                                                                                                                 | there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 24, 25.                                       |
| 4A0F            | FIRST HARMFUL EVENT is 08, 09, 15, or 49 and RELATION TO TRAFFICWAY is 12,                                                                                                                                   | at least one NON-MOTORIST LOCATION AT TIME OF CRASH must equal 22 or 28.                                                                                            |
| 530F            | FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 99,                                                                                                                                 | there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 09, 98, 99.                                   |
| 531F            | FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 11,                                                                                                                                 | there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 11.                                           |
| <b>532F</b>     | <b>FIRST HARMFUL EVENT equals 14, and RELATION TO TRAFFICWAY equals 07,</b>                                                                                                                                  | <b>at least one previous CRASH EVENTS-SEQUENCE OF EVENTS should equal 63, 64, 71, or 79 for the motor vehicle in transport involved in the FIRST HARMFUL EVENT.</b> |
| 580F            | FIRST HARMFUL EVENT equals 14, and RELATED FACTORS - PERSON (MV OCCUPANT) LEVEL does not equal 032, 089 for at least one occupant in the not in-transport motor vehicle involved in the FIRST HARMFUL EVENT, | RELATION TO TRAFFICWAY should not equal 01.                                                                                                                         |
| 770P            | RELATION TO TRAFFICWAY equals 07,                                                                                                                                                                            | RELATION TO JUNCTION (b) must equal 01, 03, 08, 19, 98, 99.                                                                                                         |
| 772P            | RELATION TO TRAFFICWAY equals 07,                                                                                                                                                                            | RELATION TO JUNCTION (a) must not equal 1.                                                                                                                          |
| 77DP            | RELATION TO TRAFFICWAY equals 07, and RELATION TO JUNCTION (a) equals 1,                                                                                                                                     | RELATION TO JUNCTION (b) should not equal 03, 08.                                                                                                                   |
| 780P            | RELATION TO TRAFFICWAY equals 10,                                                                                                                                                                            | RELATION TO JUNCTION (b) must not equal 02, 04, 08.                                                                                                                 |
| 881P            | RELATED FACTOR - CRASH LEVEL equals 024,                                                                                                                                                                     | RELATION TO TRAFFICWAY must not equal 01 or 11.                                                                                                                     |
| A131            | RELATION TO JUNCTION (b) equals 02, 04, 06, 16, 17, or 20,                                                                                                                                                   | RELATION TO TRAFFICWAY must equal 01.                                                                                                                               |
| A141            | RELATION TO JUNCTION (b) equals 18,                                                                                                                                                                          | RELATION TO TRAFFICWAY must equal 01 or 11.                                                                                                                         |
| A1E0            | RELATION TO JUNCTION (b) equals 19,                                                                                                                                                                          | RELATION TO TRAFFICWAY must not equal 01, 11, 98, <b>or</b> 99.                                                                                                     |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>THEN</b>                                                                                                                                                                           |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A380            | FIRST HARMFUL EVENT equals 01 and this vehicle is involved in the FIRST HARMFUL EVENT and <b>vPIC BODY CLASS does not equal 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring / Sport Touring), 082 (Motorcycle - Cruiser), 084 Off-road Vehicle - Dirt Bike / Off-Road), 085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road), 086 (Off-road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small / Minibike), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 104 (Motorcycle - Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motocross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle),</b> for this vehicle, and RELATION TO TRAFFICWAY equals _____, | LOCATION OF ROLLOVER should equal _____ respectively.                                                                                                                                 |
| A390            | FIRST HARMFUL EVENT equals 17, 19-21, 23-26, 30-35, 38-43, 52, 53, 57, <b>58</b> , 93,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | RELATION TO TRAFFICWAY should not equal 01, 02, 07, 11.                                                                                                                               |
| A421            | FIRST HARMFUL EVENT equals <b>20, 21, 23</b> , 24, 25, <b>26</b> , 30, <b>32</b> , 33, 34, 35, 40, 46, 52, <b>53</b> , 57, 59,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | RELATION TO TRAFFICWAY should equal 03, 04, 08, 10, or 12.                                                                                                                            |
| A4B0            | CRASH TYPE equals 01-10 or 14,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | RELATION TO TRAFFICWAY must not equal 01, 02, 07, or 11. If the first harmful event occurs on a different road than the road it departed, see <a href="#">98 (Other Crash Type)</a> . |
| A4B2            | CRASH TYPE equals 11,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | RELATION TO TRAFFICWAY must not equal 01, 03, 04, 05, 08, 10, 11, or 12.                                                                                                              |
| A4B3            | CRASH TYPE equals 12 or 13,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | RELATION TO TRAFFICWAY must not equal 03, 05, 08, 10, or 12.                                                                                                                          |
| A4B4            | CRASH TYPE equals 12 (Stationary Object on Road) or 13 (Pedestrian/Animal on Road),                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | RELATION TO TRAFFICWAY should not equal 4 (On Roadside) unless the FIRST HARMFUL EVENT occurs in a bicycle lane.                                                                      |
| A610            | RELATION TO TRAFFICWAY equals 01, and RELATION TO JUNCTION (b) equals 05,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | TRAFFICWAY DESCRIPTION should equal 6 for at least one vehicle involved in the FIRST HARMFUL EVENT.                                                                                   |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                    | <b>THEN</b>                                                                                                                                        |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| A61F            | FIRST HARMFUL EVENT equals 08, 09, 11, 15, 49, and RELATION TO TRAFFICWAY equals 01, 02, 07, 11, and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) is not equal to 00, 13 for the vehicle involved in the FIRST HARMFUL EVENT, | CRASH TYPE should equal 13 for the vehicle involved in the FIRST HARMFUL EVENT.                                                                    |
| A620            | CRASH TYPE equals 06-10, and TRAFFICWAY DESCRIPTION equals 3,                                                                                                                                                                                | RELATION TO TRAFFICWAY should equal 03 or 12.                                                                                                      |
| A62F            | FIRST HARMFUL EVENT equals 18, 43, 73, 91, or 93, and RELATION TO TRAFFICWAY equals 01, 02, or 11,                                                                                                                                           | CRASH TYPE should equal 12 or 15 for the vehicle involved in the FIRST HARMFUL EVENT.                                                              |
| A62G            | FIRST HARMFUL EVENT equals 98 and RELATION TO TRAFFICWAY equals 01, 02, or 11,                                                                                                                                                               | CRASH TYPE must equal 16 for the vehicle involved in the FIRST HARMFUL EVENT.                                                                      |
| A800            | FIRST HARMFUL EVENT equals 46,                                                                                                                                                                                                               | RELATION TO TRAFFICWAY should not equal 01, 02, 05, 07, 11.                                                                                        |
| A801            | FIRST HARMFUL EVENT equals 12,                                                                                                                                                                                                               | RELATION TO TRAFFICWAY must not equal 5.                                                                                                           |
| A881            | RELATION TO TRAFFICWAY equals 11,                                                                                                                                                                                                            | TRAFFICWAY DESCRIPTION should equal 5 for at least one vehicle.                                                                                    |
| PB05            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN for a person involved in the FIRST HARMFUL EVENT equals 311, 312, or 313,                                                                                                                   | RELATION TO TRAFFICWAY must equal 01 or 11. Note: this edit is restricted to vehicles which are involved in only one event with pedestrian(s).     |
| PB12            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN for a person involved in the FIRST HARMFUL EVENT equals 510, 520, or 590,                                                                                                                   | RELATION TO TRAFFICWAY must not equal 01 or 11. Note: this edit is restricted to vehicles which are involved in only one event with pedestrian(s). |
| PC20            | RELATION TO TRAFFICWAY equals 02-08, 10, or 12,                                                                                                                                                                                              | PRE-IMPACT LOCATION of the vehicle(s) involved in the FIRST HARMFUL EVENT should equal 0, 4, 5, or 9.                                              |
| PC30            | PRE-IMPACT LOCATION for a vehicle involved in the FIRST HARMFUL EVENT equals 4, 5, and RELATION TO JUNCTION (b) does not equal 04, 05,                                                                                                       | RELATION TO TRAFFICWAY should not equal 01 or 11.                                                                                                  |
| PC40            | PRE-IMPACT LOCATION for a vehicle involved in the FIRST HARMFUL EVENT equals 1-3, 6,                                                                                                                                                         | RELATION TO TRAFFICWAY should equal 01 or 11.                                                                                                      |

Consistency Checks (FARS Only) ([See Section 400](#)):

| Error ID | IF                                | THEN                                                    |
|----------|-----------------------------------|---------------------------------------------------------|
| A882     | RELATION TO TRAFFICWAY equals 07, | ROUTE SIGNING should not equal 1.                       |
| A883     | RELATION TO TRAFFICWAY equals 07, | LAND USE AND FUNCTIONAL SYSTEM (b) should not equal 01. |

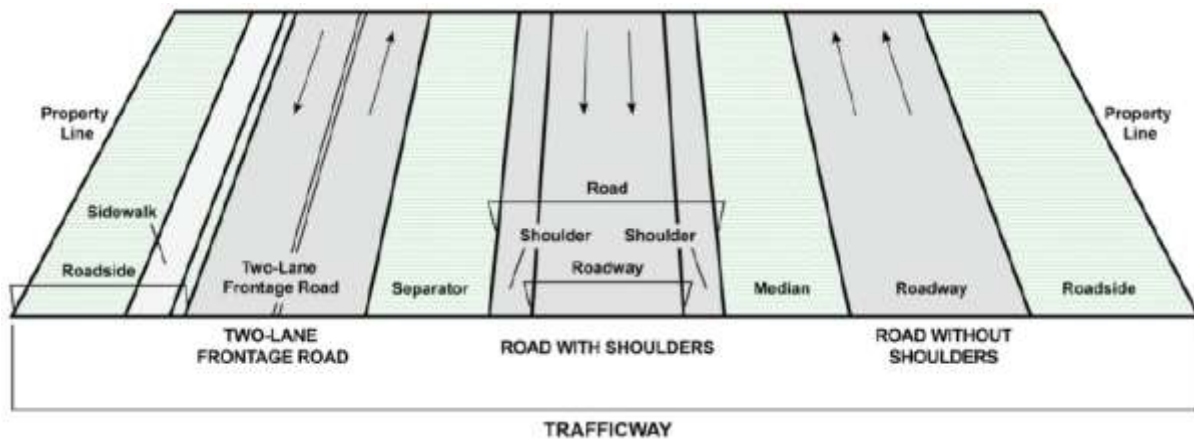


Figure 8: Trafficway

([See ANSI D16.1 - 2017, 8th Edition](#))

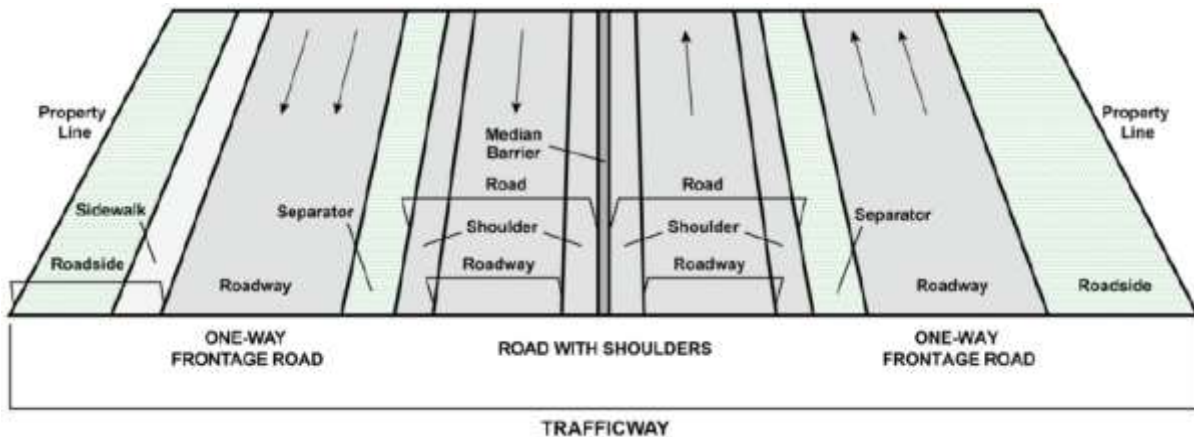


Figure 9: Trafficway Including Frontage Road

([See ANSI D16.1 - 2017, 8th Edition](#))

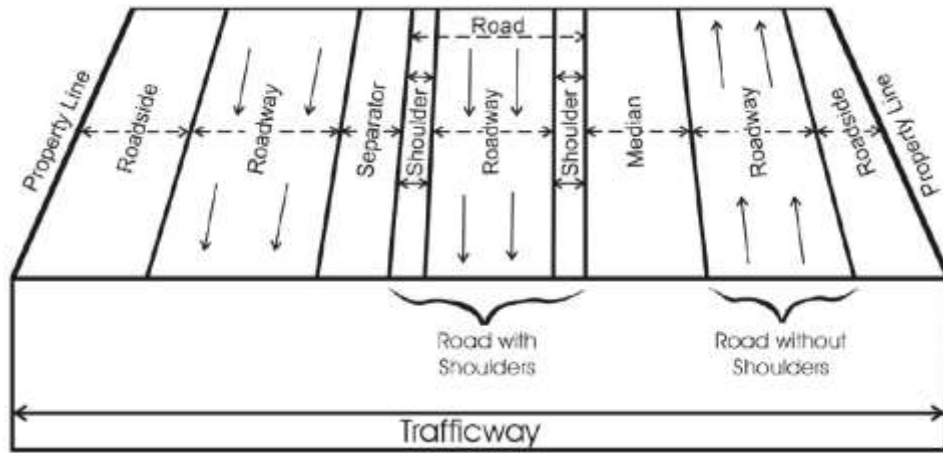


Figure 10: Trafficway with Multiple Roadways in the Same Direction  
 (See ANSI D16.1 - 2017, 8th Edition)

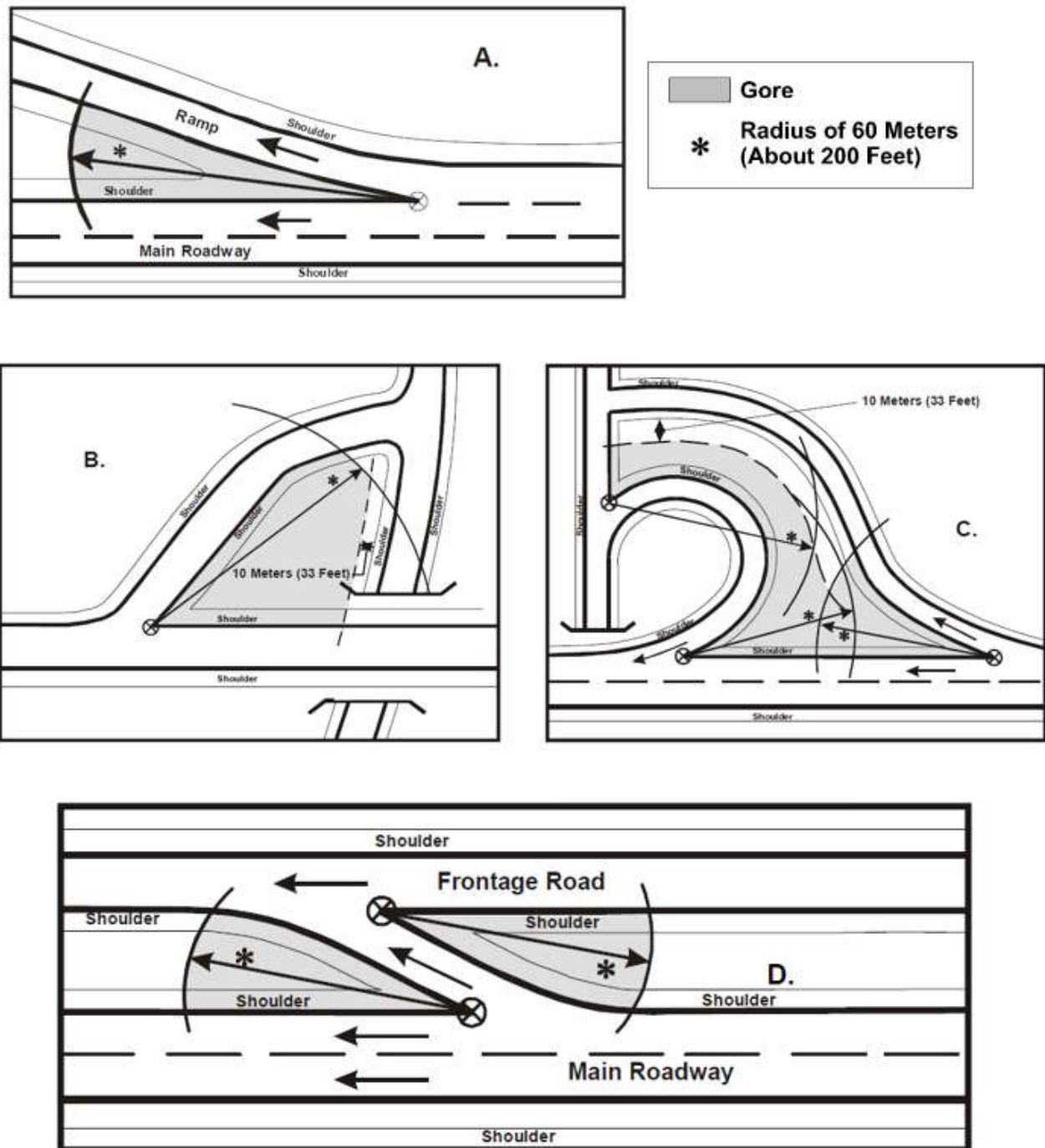


Figure 11: Four Examples of Gores  
(See ANSI D16.1 - 2017, 8th Edition)

## C24 - Work Zone

**FORMAT:** 1 numeric

**SAS NAME:** Accident.WRK\_ZONE

**ELEMENT VALUES:**

| Codes | Attributes                              |
|-------|-----------------------------------------|
| 0     | <a href="#">None</a>                    |
| 1     | <a href="#">Construction</a>            |
| 2     | <a href="#">Maintenance</a>             |
| 3     | <a href="#">Utility</a>                 |
| 4     | <a href="#">Work Zone, Type Unknown</a> |

**Definition:** This data element captures that this was a “Work Zone Crash” as defined in [ANSI D16.1, 8th Edition](#). If the crash qualifies as a “Work Zone Crash” then the type of work activity is identified.

**Remarks:** If the crash is a work zone crash, work zone type must be clearly distinguished within the case material; otherwise [4 \(Work Zone, Type Unknown\)](#) should be used.

The use of these codes does not imply that the crash was caused by the construction, maintenance, or utility activity.

### Work Zone:

A work zone is defined as an area of a trafficway where construction, maintenance, or utility work activities are identified by warning signs/signals/ indicators, including those on transport devices (e.g., signs, flashing lights, channelizing devices, barriers, pavement markings, flagmen, warning signs, and arrow boards mounted on the vehicles in a mobile maintenance activity) that mark the beginning and end of a construction, maintenance, or utility work activity. It extends from the first warning sign, signal, or flashing lights to the END ROAD WORK sign or the last traffic control device pertinent for that work activity. Work zones also include roadway sections where there is ongoing, moving (mobile) work activity such as lane line painting or roadside mowing only if the beginning of the ongoing, moving (mobile) work activity is designated by warning signs or signals.

### Work Zone Crash:

A work zone crash is a motor vehicle traffic crash in which the [FIRST HARMFUL EVENT](#) occurs within the boundaries of a work zone or on an approach to or exit from a work zone, resulting from an activity, behavior, or control related to the movement of the traffic units through the work zone.

See the [8th Edition of ANSI D16.1](#) definitions of “Work Zone” and “Work Zone Crash” for inclusions and exclusions.

To determine which attribute is appropriate, the duration of the work must be considered. If the work is short-term (i.e., takes less than one period of daylight and is not performed during hours



of darkness), **2 (Maintenance)** or **3 (Utility)** are applicable. If the maintenance or utility work is long-term, **1 (Construction)** must be used.

**0 (None)** is used when there is no indication that the crash is a work zone crash as defined above.

**1 (Construction)** is used when the available information indicates that there is long-term stationary construction such as building a new bridge, adding travel lanes to the roadway, extending an existing trafficway, etc. Highway construction includes construction of appurtenances such as guardrails or ditches, surveying activity, installation of utilities within the right-of-way, etc.

**2 (Maintenance)** is used when the available information indicates that there are work activities, including moving work activities, such as striping the roadway, median and roadside grass mowing/landscaping, pothole repair, snowplowing, etc., where there are warning signs or signals marking the beginning of the moving work area.

**3 (Utility)** is used when the available information indicates that there is short-term stationary work such as repairing/maintaining electric, gas, water lines, or traffic signals. The utility company must perform the work.

**4 (Work Zone, Type Unknown)** is used when there is insufficient information to distinguish between

[1 \(Construction\)](#), [2 \(Maintenance\)](#), or [3 \(Utility\)](#).

**Consistency Checks** [\(See Section 400\)](#):

| <b>Error ID</b> | <b>IF</b>                                                                        | <b>THEN</b>                                                                                                               |
|-----------------|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| A293            | WORK ZONE equals 1-3, and RELATION TO JUNCTION (b) equals 02, 03,                | TRAFFIC CONTROL DEVICE should equal 01-03, 20, 40, 97, or 98 for the vehicle(s) involved in the FIRST HARMFUL EVENT.      |
| A294            | WORK ZONE equals 1-3, and RELATION TO JUNCTION (b) equals 01, 04, 05, 08, 17-19, | TRAFFIC CONTROL DEVICE should equal 00, 21, 28, 40, 50, 97, or 98 for the vehicle(s) involved in the FIRST HARMFUL EVENT. |
| A470            | WORK ZONE equals 0, and TRAFFICWAY DESCRIPTION equals 1-3, 5,                    | TOTAL LANES IN ROADWAY should not equal 1.                                                                                |
| AL2P            | SEQUENCE OF EVENTS equals 45,                                                    | WORK ZONE should equal 1-4.                                                                                               |

## C25 - Light Condition

**FORMAT:** 1 numeric

**SAS NAME:** Accident.LGT\_COND

**ELEMENT VALUES:**

| Codes | Attributes                              |
|-------|-----------------------------------------|
| 1     | <a href="#">Daylight</a>                |
| 2     | <a href="#">Dark - Not Lighted</a>      |
| 3     | <a href="#">Dark - Lighted</a>          |
| 6     | <a href="#">Dark - Unknown Lighting</a> |
| 4     | <a href="#">Dawn</a>                    |
| 5     | <a href="#">Dusk</a>                    |
| 7     | <a href="#">Other</a>                   |
| 8     | <a href="#">Not Reported</a>            |
| 9     | <a href="#">Reported as Unknown</a>     |

**Definition:** This element records the type/level of light that existed at the time of the crash as reported in the case material.

### Remarks:

**1 (Daylight)** is used when the available information describes the crash conditions occurring while natural light is the main source of lighting and it is not **4 (Dawn)** or **5 (Dusk)**. If the crash occurs within a tunnel, code the lighting described for the tunnel.

**2 (Dark - Not Lighted)** is used when the available information describes a condition where no “natural” light exists, and no overhead “man-made” lighting is present on the roadway where the crash occurs.

**3 (Dark - Lighted)** is used when the available information describes a condition where no “natural” light exists but there is overhead “man-made” lighting on the roadway where the crash occurs. Lighted areas will generally include streets within cities or towns and some interchange areas. This does not include lighting from store fronts, houses, parking lots, etc.

**6 (Dark - Unknown Lighting)** is used if it cannot be determined if **2 (Dark - Not Lighted)** or **3 (Dark - Lighted)** applies.

Sometimes the case material will have conflicting information because more than one light condition is indicated in the coded boxes and/or the narrative or the coded box is blank. If necessary, use the [CRASH TIME](#) to aid in determining the “best” attribute.

**4 (Dawn)** describes the transition period going from “dark of night” to a daylight condition. This is typically the 30-minute period before the sun rises.

**5 (Dusk)** describes the transition period going from a daylight condition to the “dark of night.” This is typically the 30-minute period after the sun sets.

### Rules for determining applicable attribute:

1. If **4 (Dawn)** or **5 (Dusk)** are marked, use the [CRASH TIME](#) to select either [4 \(Dawn\)](#) or [5 \(Dusk\)](#).
2. If **3 (Dark - Lighted)** and **4 (Dawn)** are marked, use [4 \(Dawn\)](#).
3. If **3 (Dark - Lighted)** and **5 (Dusk)** are marked, use [5 \(Dusk\)](#).
4. If **Dark** and **5 (Dusk)** are marked, use [5 \(Dusk\)](#).
5. If **Dark** and **4 (Dawn)** are marked, use [4 \(Dawn\)](#).
6. If more than 2 attributes are checked, use [8 \(Not Reported\)](#).

**7 (Other)** is used when the conditions above do not apply.

If a police crash report data element is coded with the attribute “Other” but the officer does not specify what this refers to:

1. Code **7 (Other)** if the police crash report attribute choices can be matched to or include all the attributes in FARS/CRSS.
2. Code **8 (Not Reported)** if the police crash report choices cannot be matched to or include all the attributes in FARS/CRSS.

**8 (Not Reported)** Check to see if [9 \(Reported as Unknown\)](#) is more appropriate for the situation. If a State’s crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks is NOT considered “**Not Reported.**”

Code **8 (Not Reported)** in these two situations:

1. No field or coding block exists on the State’s crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State’s crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State’s crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

**9 (Reported as Unknown)** is used when the investigating officer indicates that the lighting condition was unknown.

**Consistency Checks [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                                               | <b>THEN</b>                                  |
|-----------------|---------------------------------------------------------|----------------------------------------------|
| 220P            | LIGHT CONDITION equals 4, and STATE is not equal to 02, | CRASH TIME must equal 0300-0900, 9999.       |
| 2300            | LIGHT CONDITION equals 5, and STATE is not equal to 02, | CRASH TIME should equal 1600-2200, 9999.     |
| A010            | STATE equals 02, and LIGHT CONDITION equals 4,          | CRASH TIME should equal 0300-1000, 9999.     |
| A020            | STATE equals 02, and LIGHT CONDITION equals 5,          | CRASH TIME should equal 1500-2359, 9999.     |
| A050            | CRASH TIME equals 0900-1600,                            | LIGHT CONDITION should not equal 2-6.        |
| A060            | CRASH TIME equals 2300-0400,                            | LIGHT CONDITION should not equal 1, 4, 5, 9. |
| U390            | UNLIKELY: LIGHT CONDITION equals 8.                     | --                                           |

## C26 - Atmospheric Conditions

**FORMAT:** 2 numeric. *Select All That Apply.*

**SAS NAME:** *Weather.WEATHER*

**ELEMENT VALUES:**

| Codes | Attributes                               |
|-------|------------------------------------------|
| 01    | <a href="#">Clear</a>                    |
| 10    | <a href="#">Cloudy</a>                   |
| 02    | <a href="#">Rain</a>                     |
| 03    | <a href="#">Sleet or Hail</a>            |
| 12    | <a href="#">Freezing Rain or Drizzle</a> |
| 04    | <a href="#">Snow</a>                     |
| 11    | <a href="#">Blowing Snow</a>             |
| 05    | <a href="#">Fog, Smog, Smoke</a>         |
| 06    | <a href="#">Severe Crosswinds</a>        |
| 07    | <a href="#">Blowing Sand, Soil, Dirt</a> |
| 08    | <a href="#">Other</a>                    |
| 98    | <a href="#">Not Reported</a>             |
| 99    | <a href="#">Reported as Unknown</a>      |

**Definition:** This element identifies the prevailing atmospheric conditions that existed at the time of the crash as recorded on the police crash report.

**Remarks:** *If* the case material attributes are a combination of the above attributes (e.g., Clear/Cloudy, Clear or Cloudy, Sleet/Hail/Freezing Rain, Snow/Sleet/Hail), and you cannot determine which was the prevalent weather condition, then code [98 \(Not Reported\)](#).

Temperature is not an atmospheric condition for the purposes of this element.

When coding this element, do not interpret indication of Rain, Sleet, or Snow as also Cloudy. Cloudy must be explicitly stated in the case material.

**01 (Clear)** includes partial cloudiness if sunlight is not diminished. If your case material provide the attribute “no adverse condition,” use [98 \(Not Reported\)](#) unless there is sufficient detail to establish that **01 (Clear)** or **10 (Cloudy)** applies.

**10 (Cloudy)** usually refers to “overcast” but may include partial cloudiness if light is diminished.

**02 (Rain)** refers to precipitation other than snow, hail, or sleet.

**03 (Sleet or Hail)** would apply to conditions where precipitation is falling as ice (sleet or hail)

**12 (Freezing Rain or Drizzle)** would apply when precipitation is falling as liquid (rain) and then freezing on the roadway.

**04 (Snow)** is used when precipitation is falling as frozen flakes at the time of the crash.

**11 (Blowing Snow)** applies to snow that is falling and/or to snow that has fallen to the ground and is set aloft by wind.

**05 (Fog, Smog, Smoke)** refers to a natural or man-made condition that causes reduced visibility.

**06 (Severe Crosswinds)** refers to winds traveling at an angle with respect to the travel lanes at velocities significant enough to create a risk that vehicles could be diverted from their path or high-profile vehicles could be blown over. These are winds that are strong enough to affect vehicle stability.

**07 (Blowing Sand, Soil, Dirt)** refers to particulate matter set aloft by winds creating a condition of reduced visibility that constitutes a hazard for vehicles operating in the area. This attribute should be used for “dust storms.” This attribute should not be used in conjunction with [06 \(Severe Crosswinds\)](#) unless the winds are affecting vehicle stability in addition to reducing visibility.

**08 (Other)** atmospheric conditions not described above.

If a police crash report data element is coded with the attribute “Other” but the officer does not specify what this refers to:

1. Code **08 (Other)** if the police crash report attribute choices can be matched to or include all the attributes in FARS/CRSS.
2. Code **98 (Not Reported)** if the police crash report choices cannot be matched to or include all the attributes in FARS/CRSS.

**98 (Not Reported)** *Check to see if [99 \(Reported as Unknown\)](#) is more appropriate for the situation.*

If a State’s crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered “**Not Reported.**”

Code **98 (Not Reported)** in these two situations:

1. No field or coding block exists on the State’s crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State’s crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State’s crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

**99 (Reported as Unknown)** is used when police indicate unknown.

Consistency Checks [\(See Section 400\)](#):

| <b>Error ID</b> | <b>IF</b>                                                                               | <b>THEN</b>                                                                 |
|-----------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| A030            | CRASH MONTH equals 05-09,                                                               | ATMOSPHERIC CONDITIONS should not equal 03, 04, 11, 12.                     |
| A1A0            | ROADWAY SURFACE CONDITIONS equals 01 for a vehicle involved in the FIRST HARMFUL EVENT, | ATMOSPHERIC CONDITIONS should not equal 02-04, 11, 12.                      |
| A510            | any ATMOSPHERIC CONDITIONS equals 02-04, 11, 12,                                        | ROADWAY SURFACE CONDITIONS should not equal 01, 07, 08, 99 for any vehicle. |
| AT00            | Any ATMOSPHERIC CONDITIONS 01-08, 10-12, 98, 99 can be used only once per crash.        | --                                                                          |
| <b>AT01</b>     | <b><i>Any ATMOSPHERIC CONDITIONS can be used only once per crash.</i></b>               | --                                                                          |
| AT20            | <b><i>any</i></b> ATMOSPHERIC CONDITIONS equals 01-08, 10-12,                           | ATMOSPHERIC CONDITIONS must not <b><i>also</i></b> equal 99.                |
| AT40            | <b><i>any</i></b> ATMOSPHERIC CONDITIONS equals 01, 98, or 99,                          | <b><i>only that one code and no other must be coded.</i></b>                |

## C27 - School Bus Related

**FORMAT:** 1 numeric

**SAS NAME:** Accident.SCH\_BUS, Person.SCH\_BUS

**ELEMENT VALUES:**

| Codes | Attributes          |
|-------|---------------------|
| 0     | <a href="#">No</a>  |
| 1     | <a href="#">Yes</a> |

**Definition:** This data element indicates if a school bus, or motor vehicle functioning as a school bus, is related to the crash.

### Remarks:

The “school bus” can be:

- with or without a passenger(s) on board
- involved as a contact motor vehicle, or
- indirectly involved as a non-contact motor vehicle

A school bus is a motor vehicle used for the transportation of any school pupil at or below the 12th-grade level to or from a public or private school or school-related activity. A motor vehicle is not a school bus while on trips that involve the transportation exclusively of other passengers or exclusively for other purposes.

A motor vehicle is a school bus only if it is externally identifiable by the following characteristics:

1. Its color is yellow
2. The words “school bus” appear on the front and rear
3. Flashing red lights are located on the front and rear
4. Lettering on both sides identifies the school or school district served, or the company operating the bus

**0 (No)** is used when there is no indication of a school bus, or motor vehicle functioning as a school bus, being involved in the crash.

**1 (Yes)** is used when there is any indication that a school bus, or vehicle functioning as a school bus, is involved in any component of the crash.

For directly involved or contacted vehicles, **1 (Yes)** must be selected if the [SPECIAL USE](#) data element equals [02 \(Vehicle Used for School Transport\)](#).



To capture those instances where the vehicle is involved indirectly (non-contact vehicle) the following rules apply:

- If the case material indicate “School Bus,” the assumption is that the law enforcement agency conformed to the definition of school bus; thus **1 (Yes)** School Bus Related.
- If there is no indication that a school bus was indirectly involved, **0 (No)** must be selected.

**Examples of School Bus Related (indirectly):**

1. A police-reported “school bus” stops on the roadway. Subsequently an approaching motor vehicle swerves to avoid the stopped bus and contacts another motor vehicle head-on.
2. A police report indicates that a “child” exited a “school bus” and was crossing in front of the stopped bus when a vehicle passed the bus on the left side and struck the child.
3. A line of cars is stopped for a school bus that is discharging passengers. A motor vehicle approaches and is unable to stop in time and strikes the last stopped motor vehicle in the line.

**Examples of NOT School Bus Related:**

1. An empty school bus, having completed its route, is parked alongside the road. A motor vehicle approaching from the rear loses control and strikes the bus.
2. A “Bus” is reported as stopped in traffic and a vehicle swerves to avoid the bus and contacts another vehicle. In this example, there is no positive indication of a “school bus” being involved.

**Consistency Checks ([See Section 400](#)):**

| <b>Error ID</b> | <b>IF</b>                                                                                                      | <b>THEN</b>                                                                                                                                                                                                                                                   |
|-----------------|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1L6P            | RELATED FACTORS-DRIVER equals 33                                                                               | SCHOOL BUS RELATED should equal 1.                                                                                                                                                                                                                            |
| 3D0P            | SPECIAL USE for any vehicle equals 02,                                                                         | SCHOOL BUS RELATED must equal 1.                                                                                                                                                                                                                              |
| D660            | VIOLATIONS equals 55,                                                                                          | SCHOOL BUS RELATED must equal 1.                                                                                                                                                                                                                              |
| PB22            | SCHOOL BUS RELATED equals 1, and PERSON TYPE equals 05, <b>11, 12, or 13</b> ,                                 | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN should equal 342.                                                                                                                                                                                            |
| PB23            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 342, and PERSON TYPE equals 05, <b>11, 12, or 13</b> , | SCHOOL BUS RELATED should equal 1.                                                                                                                                                                                                                            |
| V330            | SCHOOL BUS RELATED equals 1,                                                                                   | <b>vPIC BODY CLASS or FINAL STAGE BODY CLASS</b> of at least one of the involved vehicles should equal <b>073 (Bus - School Bus)</b> , or SPECIAL USE for at least one involved vehicle should equal 02, or BUS USE for at least one vehicle should equal 01. |

| <b>Error ID</b> | <b>IF</b>                                                                              | <b>THEN</b>                        |
|-----------------|----------------------------------------------------------------------------------------|------------------------------------|
| V440            | <b><i>vPIC BODY CLASS or FINAL STAGE BODY CLASS equals 073 (Bus - School Bus),</i></b> | SCHOOL BUS RELATED should equal 1. |

## C28 - Rail Grade Crossing Identifier - FARS Only

**FORMAT:** 6 numeric followed by 1 alphabetic

**SAS NAME:** Accident.RAIL

### ELEMENT VALUES:

| Codes   | Attributes                                                |
|---------|-----------------------------------------------------------|
| 0000000 | <a href="#">Not Applicable</a>                            |
| nnnnnnA | Six Numeric, Followed by One Alphabetic Valid F.R.A. Code |
| 9999999 | Unknown                                                   |

**Definition:** This element identifies if the crash occurred in or near a Rail Grade Crossing.

**Remarks:** Code complete identifier. The format must always be six numbers followed by a letter. (Two exceptions: **0000000 (Not Applicable)** and **9999999 (Unknown)**.)

Identifiers are obtainable from your Federal Railroad Administration representative or by accessing the [Federal Railroad Administration Office of Safety Analysis](#).

**0000000 (Not Applicable)** is used for a crash that does not involve a rail grade crossing.

Code when any part of the crash occurs at a rail grade crossing. Include a crash in which a vehicle is waiting at a rail grade crossing but does not necessarily travel over the tracks.

Inform NHTSA if you have any problems obtaining identifiers.

### Consistency Checks [\(See Section 400\)](#):

| Error ID | IF                                                                                                                                                         | THEN                                                   |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| 1Y0P     | RELATION TO JUNCTION(b) equals 06,                                                                                                                         | RAIL GRADE CROSSING IDENTIFIER must not equal 0000000. |
| 650P     | TRAFFIC CONTROL DEVICE equals 65 for any vehicle,                                                                                                          | RAIL GRADE CROSSING IDENTIFIER must not equal 0000000. |
| 651P     | RAIL GRADE CROSSING IDENTIFIER must equal BLANKS, 0000000, 9999999, or nnnnnnA; where n is a numeric character and A is an uppercase alphabetic character. | --                                                     |
| 750P     | RELATION TO JUNCTION(b) equals 07,                                                                                                                         | RAIL GRADE CROSSING IDENTIFIER must equal 0000000.     |

## C29 - Notification Time EMS - FARS Only

**FORMAT:** 4 numeric

**SAS NAME:** Accident.NOT\_HOUR, Accident.NOT\_MIN

**ELEMENT VALUES:**

| Codes     | Attributes                                      |
|-----------|-------------------------------------------------|
| 8888      | <a href="#">Not Applicable (Not Notified)</a>   |
| 0000-2359 | <a href="#">Valid Military Times</a>            |
| 0099-2399 | <a href="#">Known Hours but Unknown Minutes</a> |
| 9998      | <a href="#">Unknown if Notified</a>             |
| 9999      | <a href="#">Unknown EMS Notification Time</a>   |

**Definition:** NOTIFICATION TIME EMS is the time emergency medical service was notified.

**Remarks:** Every effort should be made to determine the NOTIFICATION TIME EMS, [ARRIVAL TIME EMS](#), and [EMS TIME AT HOSPITAL](#). *See tables below for [Example Coding Scenarios for Different EMS Times](#).*

*See the [Coding Guide: TIME: Crash Times, EMS Times, Death Times](#) for helpful information.*

Code the official EMS times in military times as received. **Do not alter the times because of discrepancies with the [CRASH TIME](#).** Code Notification Time of the first EMS unit to arrive on the scene.

All EMS time formats are in hours and minutes. If you receive an EMS time that includes the seconds' position, truncate to the reported minutes. Example: 10:51:35 would be 10:51.

If the day of the crash and the day of EMS Notification have different dates, then be sure to use the [018 \(Date of Crash and Date of EMS Notification Were Not the Same Day\)](#) in [RELATED FACTORS-CRASH LEVEL](#). Code NOTIFICATION TIME EMS and [ARRIVAL TIME EMS](#) no matter how much time has elapsed since the [CRASH TIME](#).

### 8888 (Not Applicable [Not Notified])

Enter this code only if EMS was never notified as part of an emergency transport.

- If it is known that EMS transport was called for non-emergency transport purposes (e.g., to transport a body to the morgue) then use this code.
- DO NOT use this code if the EMS was officially canceled. Cancellation is coded under [ARRIVAL TIME EMS](#) and [EMS TIME AT HOSPITAL](#).
- If the EMS was notified then canceled, code the actual notification time and [9997 \(Officially Canceled\)](#) under [ARRIVAL TIME EMS](#) and [EMS TIME AT HOSPITAL](#).

**0000 - 2359 (Valid Military Times), 0099 - 2399 (Known Hours but Unknown Minutes)**

Code Notification Time of the first EMS unit to arrive on the scene. If unknown minutes, code the actual hour and “99” for the minutes. Code midnight as “0000.” One minute after midnight is coded “0001.” See remarks “How to Code Midnight” under [CRASH TIME](#).

**9998 (Unknown if Notified)**

Enter this attribute if you cannot determine whether any EMS was ever notified or not.

**9999 (Unknown EMS Notification Time)**

Enter this attribute if EMS was notified but the time of notification is unknown.

Helicopters that transport victims to treatment facilities are coded as EMS units, but not police who may be trained to render emergency aid. This guidance is not meant to exclude helicopters that are used to transport victims for treatment that may be owned by police departments.

**Example Coding Scenarios for Different EMS Times**

**Scenario 1: Same EMS unit is first on scene and also transports the most severely injured person, known times for all three elements**

| <i>First on Scene</i>                | <i>Transported most Severely Injured Person</i> | <i>Notification Time EMS</i>            | <i>Arrival Time EMS</i>                 | <i>EMS Time at Hospital</i>             |
|--------------------------------------|-------------------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|
| <i>EMS Air with Known times</i>      | <i>EMS Air with known times</i>                 | <i>Code known time for EMS Air</i>      | <i>Code known time for EMS Air</i>      | <i>Code known time for EMS Air</i>      |
| <i>EMS Ground with Known times</i>   | <i>EMS Ground with Known times</i>              | <i>Code known time for EMS Ground</i>   | <i>Code known time for EMS Ground</i>   | <i>Code known time for EMS Ground</i>   |
| <i>EMS Unk Type with Known times</i> | <i>EMS Unk Type with Known times</i>            | <i>Code known time for EMS Unk Type</i> | <i>Code known time for EMS Unk Type</i> | <i>Code known time for EMS Unk Type</i> |

**Scenario 2: Same EMS unit is first on scene and also transports the most severely injured person, unknown times for all three elements**

| <i>First on Scene</i>                  | <i>Transported most Severely Injured Person</i> | <i>Notification Time EMS</i>                | <i>Arrival Time EMS</i>                      | <i>EMS Time at Hospital</i>                     |
|----------------------------------------|-------------------------------------------------|---------------------------------------------|----------------------------------------------|-------------------------------------------------|
| <i>EMS Air with Unknown times</i>      | <i>EMS Air with Unknown times</i>               | <i>9999 (Unknown EMS Notification Time)</i> | <i>9999 (Unknown EMS Scene Arrival Time)</i> | <i>9999 (Unknown EMS Hospital Arrival Time)</i> |
| <i>EMS Ground with Unknown times</i>   | <i>EMS Ground with Unknown times</i>            | <i>9999 (Unknown EMS Notification Time)</i> | <i>9999 (Unknown EMS Scene Arrival Time)</i> | <i>9999 (Unknown EMS Hospital Arrival Time)</i> |
| <i>EMS Unk Type with Unknown times</i> | <i>EMS Unk Type with Unknown times</i>          | <i>9999 (Unknown EMS Notification Time)</i> | <i>9999 (Unknown EMS Scene Arrival Time)</i> | <i>9999 (Unknown EMS Hospital Arrival Time)</i> |

**Scenario 3: Different EMS units first on scene and transporting the most severely injured person, known times for all three elements**

| <i>First on Scene</i>                  | <i>Transported most Severely Injured Person</i> | <i>Notification Time EMS</i>              | <i>Arrival Time EMS</i>                   | <i>EMS Time at Hospital</i>               |
|----------------------------------------|-------------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|
| <i>EMS Ground with Known times</i>     | <i>EMS Air with known times</i>                 | <i>Code known time for EMS Ground</i>     | <i>Code known time for EMS Ground</i>     | <i>Code known time for EMS Air</i>        |
| <i>EMS Ground # 1 with Known times</i> | <i>EMS Ground # 2 with Known times</i>          | <i>Code known time for EMS Ground # 1</i> | <i>Code known time for EMS Ground # 1</i> | <i>Code known time for EMS Ground # 2</i> |

**Scenario 4: Different EMS units first on scene and transporting the most severely injured person, unknown times for all three elements**

| <i>First on Scene</i>                    | <i>Transported most Severely Injured Person</i> | <i>Notification Time EMS</i>                | <i>Arrival Time EMS</i>                      | <i>EMS Time at Hospital</i>                     |
|------------------------------------------|-------------------------------------------------|---------------------------------------------|----------------------------------------------|-------------------------------------------------|
| <i>EMS Ground with Unknown times</i>     | <i>EMS Air with Unknown times</i>               | <i>9999 (Unknown EMS Notification Time)</i> | <i>9999 (Unknown EMS Scene Arrival Time)</i> | <i>9999 (Unknown EMS Hospital Arrival Time)</i> |
| <i>EMS Ground # 1 with unknown times</i> | <i>EMS Ground # 2 with unknown times</i>        | <i>9999 (Unknown EMS Notification Time)</i> | <i>9999 (Unknown EMS Scene Arrival Time)</i> | <i>9999 (Unknown EMS Hospital Arrival Time)</i> |

**Scenario 5: Different EMS units first on scene and transporting the most severely injured person, mix of known and unknown times for all three elements**

| <i>First on Scene</i>                    | <i>Transported most Severely Injured Person</i> | <i>Notification Time EMS</i>                | <i>Arrival Time EMS</i>                      | <i>EMS Time at Hospital</i>                     |
|------------------------------------------|-------------------------------------------------|---------------------------------------------|----------------------------------------------|-------------------------------------------------|
| <i>EMS Ground with Unknown times</i>     | <i>EMS Air with known times</i>                 | <i>9999 (Unknown EMS Notification Time)</i> | <i>9999 (Unknown EMS Scene Arrival Time)</i> | <i>Code known time for EMS Air</i>              |
| <i>EMS Ground with Known times</i>       | <i>EMS Air with Unknown times</i>               | <i>Code known time for EMS Ground</i>       | <i>Code known time for EMS Ground</i>        | <i>9999 (Unknown EMS Hospital Arrival Time)</i> |
| <i>EMS Ground # 1 with unknown times</i> | <i>EMS Ground # 2 with known times</i>          | <i>9999 (Unknown EMS Notification Time)</i> | <i>9999 (Unknown EMS Scene Arrival Time)</i> | <i>Code known time for EMS Ground # 2</i>       |
| <i>EMS Ground # 1 with known times</i>   | <i>EMS Ground # 2 with unknown times</i>        | <i>Code known time for EMS Ground # 1</i>   | <i>Code known time for EMS Ground # 1</i>    | <i>9999 (Unknown EMS Hospital Arrival Time)</i> |

**Consistency Checks [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                                                                                                                                       | <b>THEN</b>                                                                                |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| A070            | NOTIFICATION TIME EMS is not 8888, 9998, or 9999,                                                                                               | NOTIFICATION TIME EMS should not be more than 120 minutes later than CRASH TIME.           |
| A540            | NOTIFICATION TIME EMS is not 8888, 9998, or 9999, and ARRIVAL TIME EMS is not 8888, 9997, 9998, 9999,                                           | ARRIVAL TIME EMS should not be more than 120 minutes later than NOTIFICATION TIME EMS.     |
| A560            | NOTIFICATION TIME EMS is not 8888, 9998, or 9999, and EMS TIME AT HOSPITAL is not 8888, 9997, 9998, 9999,                                       | EMS TIME AT HOSPITAL should not be more than 180 minutes later than NOTIFICATION TIME EMS. |
| E01P            | NOTIFICATION TIME EMS equals 9998,                                                                                                              | ARRIVAL TIME EMS must equal 9998, and EMS TIME AT HOSPITAL must equal 8888 or 9998.        |
| E03P            | ARRIVAL TIME EMS equals 8888,                                                                                                                   | NOTIFICATION TIME EMS and EMS TIME AT HOSPITAL must equal 8888.                            |
| E04P            | NOTIFICATION TIME EMS equals 8888,                                                                                                              | ARRIVAL TIME EMS and EMS TIME AT HOSPITAL must equal 8888.                                 |
| E07P            | ARRIVAL TIME EMS equals 9997,                                                                                                                   | NOTIFICATION TIME EMS must not equal 8888, 9998.                                           |
| E08P            | NOTIFICATION TIME EMS is not 8888, 9998, and EMS TIME AT HOSPITAL is not 8888, 9996, 9997, 9998,                                                | ARRIVAL TIME EMS must not equal 9997 or 9998.                                              |
| E09P            | ARRIVAL TIME EMS equals 0000-2359, CRASH TIME-hour equals ARRIVAL TIME EMS-hour, and ARRIVAL TIME EMS-minute is greater than CRASH TIME-minute; | NOTIFICATION TIME EMS-hour should not equal 99.                                            |
| P093            | all persons TRANSPORTED TO FIRST MEDICAL FACILITY BY equals 2, <b>or</b> 6,                                                                     | NOTIFICATION TIME EMS, ARRIVAL TIME EMS, EMS TIME AT HOSPITAL must equal 8888.             |
| <b>U750</b>     | <b>UNLIKELY: EMS TIME AT HOSPITAL equals 8888,</b>                                                                                              | <b>NOTIFICATION TIME EMS is unlikely to equal 8888.</b>                                    |

### C30 - Arrival Time EMS - FARS Only

**FORMAT:** 4 numeric

**SAS NAME:** Accident.ARR\_HOUR, Accident.ARR\_MIN

**ELEMENT VALUES:**

| Codes     | Attributes                                      |
|-----------|-------------------------------------------------|
| 8888      | <a href="#">Not Applicable (Not Notified)</a>   |
| 0000-2359 | <a href="#">Valid Military Times</a>            |
| 0099-2399 | <a href="#">Known Hours but Unknown Minutes</a> |
| 9997      | <a href="#">Officially Canceled</a>             |
| 9998      | <a href="#">Unknown if Arrived</a>              |
| 9999      | <a href="#">Unknown EMS Scene Arrival Time</a>  |

**Definition:** ARRIVAL TIME EMS is the time emergency medical service arrived on the crash scene.

**Remarks:** This excludes any transport by anyone other than EMS. (law enforcement, POV, etc.). Every effort should be made to determine the [NOTIFICATION TIME EMS](#), ARRIVAL TIME EMS, and [EMS TIME AT HOSPITAL](#). *See tables under NOTIFICATION TIME EMS for Example Coding Scenarios for Different EMS Times.* Code the official EMS times in military times as received. Code the arrival time of the first EMS unit to arrive on the scene. **Do not alter the times because of discrepancies with the [CRASH TIME](#).**

*See the [Coding Guide: TIME: Crash Times, EMS Times, Death Times](#) for helpful information.*

All EMS time formats are in hours and minutes. If you receive an EMS time that includes the seconds' position, truncate to the reported minutes. Example: 10:51:35 would be 10:51.

Code [NOTIFICATION TIME EMS](#) and ARRIVAL TIME EMS no matter how much time has elapsed since the [CRASH TIME](#).

#### **8888 (Not Applicable [Not Notified])**

Enter this attribute only if EMS was never notified. DO NOT use this code if the EMS was notified then canceled.

#### **0000 - 2359 (Valid Military Times), 0099 - 2399 (Known Hours but Unknown Minutes)**

Code the arrival time of the first EMS unit to arrive on the scene. If unknown minutes, code the actual hour and "99" for the minutes. Code midnight as "0000." One minute after midnight is coded "0001." See remarks "How to Code Midnight" under [CRASH TIME](#).

#### **9997 (Officially Canceled)**

Enter this attribute if EMS was officially canceled.



**9998 (Unknown if Arrived)**

Enter this attribute if there is no indication of official cancellation, but there is uncertainty or doubt that EMS ever arrived on the scene or not.

**9999 (Unknown EMS Scene Arrival Time)**

Enter this code if EMS did arrive on scene, but the time of arrival is unknown.

**Consistency Checks ([See Section 400](#)):**

| <b>Error ID</b> | <b>IF</b>                                                                                                                                       | <b>THEN</b>                                                                            |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| A540            | NOTIFICATION TIME EMS is not 8888, 9998, or 9999, and ARRIVAL TIME EMS is not 8888, 9997, 9998, 9999,                                           | ARRIVAL TIME EMS should not be more than 120 minutes later than NOTIFICATION TIME EMS. |
| A550            | ARRIVAL TIME EMS is not 8888, 9997, 9998, or 9999, and EMS TIME AT HOSPITAL is not 8888, 9997, 9998, 9999,                                      | EMS TIME AT HOSPITAL should not be more than 60 minutes later than ARRIVAL TIME EMS.   |
| E01P            | NOTIFICATION TIME EMS equals 9998,                                                                                                              | ARRIVAL TIME EMS must equal 9998, and EMS TIME AT HOSPITAL must equal 8888 or 9998.    |
| E02P            | ARRIVAL TIME EMS equals 9998,                                                                                                                   | EMS TIME AT HOSPITAL must equal 8888 or 9998.                                          |
| E03P            | ARRIVAL TIME EMS equals 8888,                                                                                                                   | NOTIFICATION TIME EMS and EMS TIME AT HOSPITAL must equal 8888.                        |
| E04P            | NOTIFICATION TIME EMS equals 8888,                                                                                                              | ARRIVAL TIME EMS and EMS TIME AT HOSPITAL must equal 8888.                             |
| E05P            | EMS TIME AT HOSPITAL equals 9997,                                                                                                               | ARRIVAL TIME EMS must equal 9997.                                                      |
| E06P            | ARRIVAL TIME EMS equals 9997,                                                                                                                   | EMS TIME AT HOSPITAL must equal 9997.                                                  |
| E07P            | ARRIVAL TIME EMS equals 9997,                                                                                                                   | NOTIFICATION TIME EMS must not equal 8888, 9998.                                       |
| E08P            | NOTIFICATION TIME EMS is not 8888, 9998, and EMS TIME AT HOSPITAL is not 8888, 9996, 9997, 9998,                                                | ARRIVAL TIME EMS must not equal 9997 or 9998.                                          |
| E09P            | ARRIVAL TIME EMS equals 0000-2359, CRASH TIME-hour equals ARRIVAL TIME EMS-hour, and ARRIVAL TIME EMS-minute is greater than CRASH TIME-minute; | NOTIFICATION TIME EMS-hour should not equal 99.                                        |
| P093            | all persons TRANSPORTED TO FIRST MEDICAL FACILITY BY equals 2, <b>or 6</b> ,                                                                    | NOTIFICATION TIME EMS, ARRIVAL TIME EMS, EMS TIME AT HOSPITAL must equal 8888.         |
| <b>U760</b>     | <b>UNLIKELY: EMS TIME AT HOSPITAL equals 8888,</b>                                                                                              | <b>ARRIVAL TIME EMS is unlikely to equal 8888.</b>                                     |

### C31 - EMS Time at Hospital - FARS Only

**FORMAT:** 4 numeric

**SAS NAME:** Accident.HOSP\_HR, Accident.HOSP\_MN

**ELEMENT VALUES:**

| Codes     | Attributes                                        |
|-----------|---------------------------------------------------|
| 8888      | <a href="#">Not Applicable (Not Transported)</a>  |
| 0000-2359 | <a href="#">Valid Military Times</a>              |
| 0099-2399 | <a href="#">Known Hours but Unknown Minutes</a>   |
| 9996      | <a href="#">Terminated Transport</a>              |
| 9997      | <a href="#">Officially Canceled</a>               |
| 9998      | <a href="#">Unknown if Transported</a>            |
| 9999      | <a href="#">Unknown EMS Hospital Arrival Time</a> |

**Definition:** EMS TIME AT HOSPITAL is the time emergency medical service arrived at the treatment facility (hospital, clinic, trauma center, etc.) to which it was transporting victims of the crash.

**Remarks:** This excludes any transport by anyone other than EMS (law enforcement, POV, etc.). Every effort should be made to determine the [NOTIFICATION TIME EMS](#), [ARRIVAL TIME EMS](#), and EMS TIME AT HOSPITAL. *See tables under NOTIFICATION TIME EMS for Example Coding Scenarios for Different EMS Times.*

*See the [Coding Guide: TIME: Crash Times, EMS Times, Death Times](#) for helpful information.*

Code the official EMS times in military times as received. Code the EMS time at hospital of the unit transporting the most severely injured victim. The most severely injured victim includes (and usually is) the victim who dies en route to the treatment facility or later, but not the one who dies on-scene. **Do not alter the times because of discrepancies with the [CRASH TIME](#).**

All EMS time formats are in hours and minutes. If you receive an EMS time that includes the seconds' position, truncate to the reported minutes. Example: 10:51:35 would be 10:51.

Questions arise when there is more than one EMS unit or when there is more than one injured person. Code EMS TIME AT HOSPITAL according to the following guidelines:

#### **8888 (Not Applicable [Not Transported])**

Use this attribute if all the injuries are on-scene fatalities (no one is transported for treatment.) Also use this attribute if there are live victims, but no one is transported to a treatment facility by EMS.

**0000 - 2359 (Valid Military Time), 0099 - 2399 (Known Hours but Unknown Minutes)**

Code the EMS time at hospital of the unit transporting the most severely injured victim. The most severely injured victim includes (and usually is) the victim who dies en route to the treatment facility or later, but not the one who dies on-scene.

If unknown minutes, code the actual hour and “99” for the minutes. Code midnight as “0000.” One minute after midnight is coded “0001.” See remarks “How to Code Midnight” under [CRASH TIME](#).

**9996 (Terminated Transport)**

Enter this attribute if there is indication that EMS was notified, arrived at the scene but while in transit terminated the trip to hospital because the person died en route. This attribute should not be used when there is a hospital arrival time available for a person dead on arrival at the hospital.

**9997 (Officially Canceled)**

Enter this attribute if EMS was officially canceled before on scene.

**9998 (Unknown if Transported)**

Enter this attribute if there is no indication of official cancellation, but there is uncertainty or doubt that any victims were transported for treatment or not.

**9999 (Unknown EMS Hospital Arrival Time)**

Enter this attribute if EMS transported victims for treatment, but the time of arrival at the hospital or treatment facility is unknown.

**Consistency Checks ([See Section 400](#)):**

| <b>Error ID</b> | <b>IF</b>                                                                                                  | <b>THEN</b>                                                                                |
|-----------------|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| A550            | ARRIVAL TIME EMS is not 8888, 9997, 9998, or 9999, and EMS TIME AT HOSPITAL is not 8888, 9997, 9998, 9999, | EMS TIME AT HOSPITAL should not be more than 60 minutes later than ARRIVAL TIME EMS.       |
| A551            | EMS TIME AT HOSPITAL equals 8888, 9997, 9998,                                                              | TRANSPORTED TO FIRST MEDICAL FACILITY BY should not equal 1, 3, 5 for any person.          |
| A560            | NOTIFICATION TIME EMS is not 8888, 9998, or 9999, and EMS TIME AT HOSPITAL is not 8888, 9997, 9998, 9999,  | EMS TIME AT HOSPITAL should not be more than 180 minutes later than NOTIFICATION TIME EMS. |
| E01P            | NOTIFICATION TIME EMS equals 9998,                                                                         | ARRIVAL TIME EMS must equal 9998, and EMS TIME AT HOSPITAL must equal 8888 or 9998.        |
| E02P            | ARRIVAL TIME EMS equals 9998,                                                                              | EMS TIME AT HOSPITAL must equal 8888 or 9998.                                              |
| E03P            | ARRIVAL TIME EMS equals 8888,                                                                              | NOTIFICATION TIME EMS and EMS TIME AT HOSPITAL must equal 8888.                            |

| <b>Error ID</b> | <b>IF</b>                                                                                        | <b>THEN</b>                                                                    |
|-----------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| E04P            | NOTIFICATION TIME EMS equals 8888,                                                               | ARRIVAL TIME EMS and EMS TIME AT HOSPITAL must equal 8888.                     |
| E05P            | EMS TIME AT HOSPITAL equals 9997,                                                                | ARRIVAL TIME EMS must equal 9997.                                              |
| E06P            | ARRIVAL TIME EMS equals 9997,                                                                    | EMS TIME AT HOSPITAL must equal 9997.                                          |
| E08P            | NOTIFICATION TIME EMS is not 8888, 9998, and EMS TIME AT HOSPITAL is not 8888, 9996, 9997, 9998, | ARRIVAL TIME EMS must not equal 9997 or 9998.                                  |
| P091            | TRANSPORTED TO FIRST MEDICAL FACILITY BY equals 1, 3, 5,                                         | EMS TIME AT HOSPITAL should not equal 8888, 9997, 9998.                        |
| P093            | all persons TRANSPORTED TO FIRST MEDICAL FACILITY BY equals 2, <b>or 6</b> ,                     | NOTIFICATION TIME EMS, ARRIVAL TIME EMS, EMS TIME AT HOSPITAL must equal 8888. |
| P095            | TRANSPORTED TO FIRST MEDICAL FACILITY BY equals 0 for every person in the case,                  | EMS TIME AT HOSPITAL must not equal 0000-2399, 9999.                           |
| P510            | EMS TIME AT HOSPITAL equals 8888, 9997, 9998,                                                    | DIED AT SCENE/EN ROUTE should not equal 8 for any PERSON.                      |
| P530            | EMS TIME AT HOSPITAL equals 9996,                                                                | DIED AT SCENE/EN ROUTE must equal 8 for at least one person.                   |
| P54P            | DIED AT SCENE/EN ROUTE equals 8,                                                                 | EMS TIME AT HOSPITAL should not equal 8888, 9997, 9998.                        |
| <b>U750</b>     | <b>UNLIKELY: EMS TIME AT HOSPITAL equals 8888,</b>                                               | <b>NOTIFICATION TIME EMS is unlikely to equal 8888.</b>                        |
| <b>U760</b>     | <b>UNLIKELY: EMS TIME AT HOSPITAL equals 8888,</b>                                               | <b>ARRIVAL TIME EMS is unlikely to equal 8888.</b>                             |

### C32 - Related Factors - Crash Level

**FORMAT:** 3 numeric. *Select All That Apply.*

**SAS NAME:** *CrashRF.CRASHRF*

**ELEMENT VALUES:**

| Codes | Attributes                                                                           |
|-------|--------------------------------------------------------------------------------------|
| 000   | <a href="#">None</a>                                                                 |
| *001  | <a href="#">Inadequate Warning of Exits, Lanes Narrowing, Traffic Controls, etc.</a> |
| *002  | <a href="#">Shoulder Design or Condition</a>                                         |
| 003   | <a href="#">Other Maintenance or Construction-Created Condition</a>                  |
| *004  | <a href="#">No or Obscured Pavement Marking</a>                                      |
| 005   | <a href="#">Surface Under Water</a>                                                  |
| *006  | <a href="#">Inadequate Construction or Poor Design of Roadway, Bridge, etc.</a>      |
| 007   | <a href="#">Surface Washed Out (caved-in, road slippage)</a>                         |

### Special Circumstances:

| Codes | Attributes                                                                                                                                  |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------|
| 012   | <a href="#">Distracted Driver of a Non-Contact Vehicle</a>                                                                                  |
| 013   | <a href="#">Aggressive Driving/Road Rage by Non-Contact Vehicle Driver</a>                                                                  |
| 014   | <a href="#">Motor Vehicle Struck by Falling Cargo, or Something That Came Loose from, or Something That was Set in Motion by a Vehicle.</a> |
| 015   | <a href="#">Non-Occupant Struck by Falling Cargo, or Something That Came Loose from, or Something that was Set in Motion by a Vehicle</a>   |
| 016   | <a href="#">Non-Occupant Struck Vehicle</a>                                                                                                 |
| 017   | <a href="#">Vehicle Set in Motion by Non-Driver</a>                                                                                         |
| *018  | <a href="#">Date of Crash and Date of EMS Notification Were Not the Same Day</a>                                                            |
| 020   | <a href="#">Police Pursuit Involved</a>                                                                                                     |
| 021   | <a href="#">Within Designated School Zone</a>                                                                                               |
| *022  | <a href="#">Speed Limit is a Statutory Limit as Recorded or was Determined as This State's "Basic Rule"</a>                                 |
| 023   | <a href="#">Indication of a Stalled/Disabled Vehicle</a>                                                                                    |
| 024   | <a href="#">Unstabilized Situation Began and All Harmful Events Occurred Off of the Roadway</a>                                             |
| 028   | <a href="#">Regular Congestion</a>                                                                                                          |
| 019   | <a href="#">Recent Previous Crash Scene Nearby</a>                                                                                          |
| 027   | <a href="#">Backup Due to Prior Crash</a>                                                                                                   |
| 026   | <a href="#">Prior Non-Recurring Incident</a>                                                                                                |

| Codes | Attributes                               |
|-------|------------------------------------------|
| 025   | <a href="#">Toll Booth/Plaza Related</a> |
| 030   | <a href="#">Obstructed Crosswalks</a>    |
| 031   | <a href="#">Related to a Bus Stop</a>    |
| 999   | <a href="#">Reported as Unknown</a>      |

**\* FARS ONLY ATTRIBUTES**

**Definition:** This element identifies factors related to the crash expressed in the case material.

**Remarks:** Code information provided in the case material.

**For attributes 001-007**, if the officer states “the witness said,” these should **NOT** be coded. Care must be used in coding these attributes. The police crash report should state that the environmental condition was a factor or existed at this location; cannot be inferred.

**Attributes 012-031 - SPECIAL CIRCUMSTANCES**, are exceptions to the prior remarks. These are codes for unusual factors that occurred during the crash. If you can determine that any of these factors did happen, then these codes should be used.

This element can be coded in conjunction with other elements even if similar information is identified. For example, if a traffic control is temporarily down, it can be coded under both [DEVICE FUNCTIONING](#) and RELATED FACTORS-CRASH LEVEL [001 \(Inadequate Warning of Exits, Lanes Narrowing, Traffic Controls, etc.\)](#).

**000 (None)** is used when no applicable related factors are noted in the case material.

**\*001 (Inadequate Warning of Exits, Lanes Narrowing, Traffic Controls, etc.)** is used when the case material identifies that there was inadequate warning provided to motorists associated with the trafficway. **Do** not use this attribute in situations that would include construction sites or work areas (see [003 \(Other Maintenance or Construction-Created Condition\)](#)).

**Examples include:**

- Inadequate warning due to obscured signs.
- Inadequate warning because signs were temporarily down.
- Lack of necessary signage (e.g., merge or diverge warning, downhill grade).

**\*002 (Shoulder Design or Condition)** is used when the case material identifies problem conditions pertaining to the actual design or condition of the **shoulder**.

**Examples include:**

- Soft or collapsing shoulders.
- Inadequate shoulder width.
- Shoulder is at a different level from the roadway (e.g., drop-off, lifted, not flat).

**003 (Other Maintenance or Construction-Created Condition)** is used when the case material identifies problem conditions pertaining to “inadequate maintenance” of the roadway (e.g., potholes, ruts in roadway) or conditions cited by the officer that are related to construction activity (addition of barricades, change in traffic patterns, merging lanes, etc.).

**\*004 (No or Obscured Pavement Marking)** is used when the case material identifies problem conditions pertaining to any pavement marking *situations*.

**Examples include:**

- New asphalt that has covered old pavement markings.
- Areas where pavement marking has worn off.
- The case material mention ice/snow/mud was obscuring the pavement markings.

**005 (Surface Under Water)** is used when the case material identifies that the roadway surface is under water beyond normal accumulation (i.e., depth of water). Also use this attribute when the case material mention situations where the roadway is permanently under water (i.e., *fords*).

**\*006 (Inadequate Construction or Poor Design of Roadway, Bridge, etc.)** is used when the case material identifies problems with the roadway design. This attribute does not include shoulder-related situations, pavement marking situations, or situations with inadequate warnings (see attributes [001 \(Inadequate Warning of Exits, Lanes Narrowing, Traffic Controls, etc.\)](#), [002 \(Shoulder Design or Condition\)](#), and [004 \(No or Obscured Pavement Marking\)](#)).

**Examples include:**

- Original design of the trafficway (i.e., roadway bridges, medians, guardrails, traffic barriers) is poor.
- Blind intersections due to highway design, not due to visual obstructions (i.e., shrubbery) etc.
- Improper banking.
- Lack of a lane for merging.
- Inadequate road surface (dirt, gravel surfaces, etc.). However, this must not be inferred. It must be explicitly stated in the police report as a “factor.”

**007 (Surface Washed Out [caved-in, road slippage])** is used when the case material identifies the roadway was previously washed out, caved-in, or had slipped due to prior events associated with the environment (flooding, earthquakes, etc.).

**012 (Distracted Driver of a Non-Contact Vehicle)** is used for situations where the investigating officer indicates that the driver of a non-contact vehicle (“phantom vehicle”) was distracted.

**013 (Aggressive Driving/Road Rage by Non-Contact Vehicle Driver)** is only used for situations where the investigating officer indicates that a non-contact vehicle (“phantom vehicle”) was being operated aggressively. The officer must use the term “Aggressive” *or* “**Road Rage**” in describing a driver’s behavior. This can be indicated in the case material under related/contributing factors/circumstances or in the narrative. *For* contact vehicles, see RELATED FACTORS - DRIVER LEVEL [008 \(Aggressive Driving/Road Rage\)](#).

**014 (Motor Vehicle Struck by Falling Cargo, or Something That Came Loose from, or Something that was Set in Motion by a Vehicle)** is used when the case material identifies that a vehicle became a contact vehicle in the crash as a result of being struck by cargo or objects that fell from another vehicle or by something that was set in motion by another vehicle. The term

“set in motion” generally applies to non-fixed or fixed objects struck and propelled by a vehicle (including pedestrians or parked vehicles). This can also include a circumstance where one vehicle overrides another and then directs or controls the overridden vehicle’s movement.

**Examples include:**

- Cargo falls from a truck (in-transport) and lands on another motor vehicle in-transport or a parked vehicle.
- A car runs off the roadway at an intersection, hits a stop sign and propels the stop sign into a vehicle traveling on the intersecting roadway.
- A motorcycle rider overturns in a curve, the rider is separated from the vehicle and the rider slides across the centerline into a vehicle traveling in the opposing lanes.
- A tractor trailer overrides a passenger car and with the car still pinned under the truck, the combined vehicles continue on to contact other objects.

**015 (Non-Occupant Struck by Falling Cargo, or Something That Came Loose from, or Something that was Set in Motion by a Vehicle)** is used when the case material identifies that a non-occupant (e.g., pedestrian, bicyclist, person on personal conveyance) was struck by cargo or objects that fell from a motor vehicle or by something that was set in motion by a motor vehicle. The term “set in motion” generally applies to non-fixed or fixed objects struck and propelled by a vehicle (including pedestrians or parked vehicles).

**Examples include:**

- Cargo falls from a truck (in-transport) and lands on a bicyclist on the shoulder.
- A car runs off the roadway at an intersection, hits a stop sign, and propels the stop sign into a skateboarder waiting to cross the intersection.
- A car strikes a deer in the roadway and propels the deer into a person jogging on the sidewalk.

**016 (Non-Occupant Struck Vehicle)** is used when the case material identifies that a non-occupant (e.g., pedestrian, bicyclist, person on personal conveyance) “struck” or “ran into” a motor vehicle (usually the side or back of the vehicle). **This does not include non-occupants who are struck in the vehicle’s path of travel.**

**Examples include:**

- A bicyclist runs into the mirror of a parked car and falls into the path of a motor vehicle in-transport.
- A runner collides with the side of a vehicle that comes to a sudden stop and the runner is subsequently struck by another vehicle.



**017 (Vehicle Set in Motion by Non-Driver)** is used when the case material identifies the crash involved a passenger's action.

**Examples include:**

- Passenger shifting gears on the vehicle.
- Passenger hitting the accelerator.
- Passenger turning the ignition key or hitting the ignition button.

**NOTE:** This attribute is different from RELATED FACTORS-PERSON LEVEL [005 \(Interfering with the Driver\)](#).

**\*018 (Date of Crash and Date of EMS Notification Were Not the Same Day)** is used when the crash victim(s) is not discovered immediately or when the effects of the crash are not immediately known.

**020 (Police Pursuit Involved)** is used when the case material identifies a police pursuit had been initiated by the police and was active at the time of the crash. This attribute is also used when a pursuit had been initiated and terminated, but the pursuit action is still related to the crash. This applies for both air and ground pursuing vehicles. To identify the individual(s) involved in the pursuit, please see [RELATED FACTORS-DRIVER LEVEL](#) for [037 \(Police Pursuing this Driver or Police Officer in Pursuit\)](#).

**Definition of Police Pursuit:** A pursuit is an event that is initiated when a law enforcement officer, operating an authorized emergency vehicle, gives notice to stop (either through the use of visual or audible emergency signals or a combination of emergency devices) to a motorist who the officer is attempting to apprehend, and that motorist fails to comply with the signal by either maintaining his/her speed, increasing speed, or taking other evasive action to elude the officer's continued attempts to stop the motorist. A pursuit is terminated when the motorist stops, or when the attempt to apprehend is discontinued by the officer or at the direction of a competent authority.

**021 (Within Designated School Zone)** is used when the case material identifies the crash occurred in an area signed or marked as a "School Zone." This may or may not be [SCHOOL BUS RELATED](#). "School Zones" are zones near or at a school that exist during months and hours when zone signing is in effect.

**\*022 (Speed Limit is a Statutory Limit as Recorded or was Determined as This State's "Basic Rule")** is used when the case material identifies there is no posted speed limit but the State law sets the maximum speed limit on a local road or street.

**023 (Indication of a Stalled/Disabled Vehicle)** is used when the case material identifies that a stalled or mechanically disabled vehicle was somehow related to the crash. It includes both contact and non-contact vehicles that are stalled/disabled for mechanical reasons not due to crash-related damage.

**Examples include:**

- A pedestrian is struck when walking from their stalled vehicle.
- A vehicle is stalled in the travel lanes causing another vehicle to lose control and crash.

**024 (Unstabilized Situation Began and All Harmful Events Occurred Off the Roadway)** is used when the case material identifies the unstabilized situation began within the trafficway but off the roadway and all harmful events occurred off the roadway.

**Examples include:**

- A vehicle stopped on the roadside begins to accelerate to re-enter the roadway and runs into a ditch and overturns.
- An ATV is driving along the roadside and strikes a tree stump.
- A vehicle strikes a pedestrian while driving down the road shoulder.

**028 (Regular Congestion)** is used when the case material identifies the crash occurred in or related to an area of trafficway where there was congestion due to **long term** heavy traffic. **For example**, during **regular** rush hour **traffic or due to ongoing, long-term construction projects**.

**NOTE:** A Secondary Crash occurs when this crash was within a traffic incident scene or within a traffic queue in either direction resulting from a [Recent Previous Crash](#), a [Backup Due to a Prior Crash](#), or a [Prior Non-Recurring Incident](#). A traffic incident scene is the scene of any unplanned traffic event that adversely effects normal traffic operations. Examples include, but are not limited to, traffic crashes, disabled vehicles, traffic backups, or spilled cargo.

**019 (Recent Previous Crash Scene Nearby)** is used when the case material identifies that a previous crash somehow influenced or contributed to the occurrence of this crash.

**Examples:**

- A change in the traffic patterns.
- An obstruction on the roadway.
- A reduction in traffic speed.
- Occupants and/or vehicles on the roadway.
- Possible recent traffic crash scene.

**027 (Backup Due to Prior Crash)** is used when the case material identifies there was an accumulation of traffic caused by vehicles slowing or stopping due to traffic flow being impacted by a prior crash. The distance from the prior crash does not matter, only the relevance to this crash.

**026 (Prior Non-Recurring Incident)** is used when the case material identifies that the crash occurred in or related to an unusual and unplanned event.

**Examples:**

- A tractor trailer transporting a trailer designated as a Wide Load.
- Debris in the roadway causing a backup.
- Traffic going to or coming from a funeral procession, sporting event, parade, or traffic signal outage.

**025 (Toll Booth/Plaza Related)** is used when the case material identifies that the crash occurred at or in the vicinity of a toll booth (manned or unmanned) or a toll plaza. These are crashes that occur in the upstream approach to the toll booth/plaza area and continues as the approach area (where the toll road begins to widen) leading up to the toll booths and in the departure area where the road begins to narrow leading back to the normal number of lanes comprising the toll road downstream departure area. (See [Figure 12.](#))

**030 (Obstructed Crosswalks)** is used when case material indicate that crosswalks were in the vicinity of the crash but were not available because they were somehow obstructed. For example, due to construction, people, stopped motor vehicles, or other objects preventing their use.

**031 (Related to a Bus Stop)** is used when the case material indicate the crash was related to the use of a location set aside for, or customarily used for, boarding and disembarking passengers onto or from a bus of any kind (e.g., pedestrian collisions involving vehicles maneuvering around a bus stopped for boarding or disembarking passengers, pedestrians walking to a bus stop, or pedestrians running across traffic lanes to a bus stop).

**999 (Reported as Unknown)** is used when the circumstances surrounding the crash are unknown and reported as “Unknown” by the investigating *officer*.

**\* FARS ONLY ATTRIBUTES**

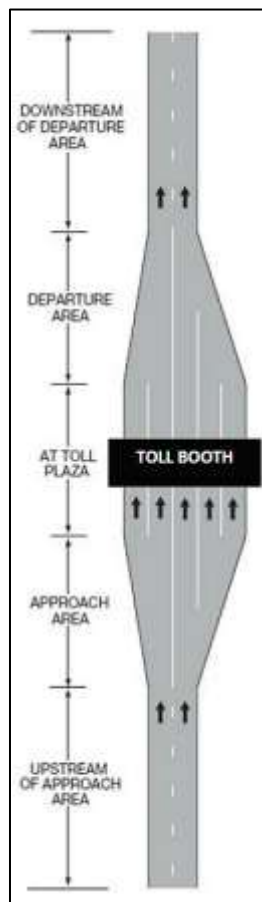


Figure 12: Toll Booth/Plaza Area  
(See [MMUCC - 2012, 4th Edition](#))

**Consistency Checks ([See Section 400](#)):**

| <b>Error ID</b> | <b>IF</b>                                                                                                                              | <b>THEN</b>                                                                                                                                                                                      |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1A0P            | RELATED FACTORS-CRASH LEVEL equals 014,                                                                                                | NUMBER OF VEHICLE FORMS SUBMITTED must be greater than 001.                                                                                                                                      |
| 1A1P            | RELATED FACTORS-CRASH LEVEL equals 005,                                                                                                | ROADWAY SURFACE CONDITIONS must equal 06 for at least one vehicle.                                                                                                                               |
| 640F            | TRAFFIC CONTROL DEVICE equals 23 for any vehicle,                                                                                      | RELATED FACTORS-CRASH LEVEL should equal 021.                                                                                                                                                    |
| 641F            | RELATED FACTORS-CRASH LEVEL equals 021,                                                                                                | TRAFFIC CONTROL DEVICE should not equal 00 for every vehicle.                                                                                                                                    |
| 642F            | TRAFFIC CONTROL DEVICE equals 00 for any vehicle,                                                                                      | RELATED FACTORS-CRASH LEVEL should not equal 021.                                                                                                                                                |
| 840P            | any RELATED FACTORS-CRASH LEVEL equals 000 or 999,                                                                                     | <b><i>only that one code and no other must be coded.</i></b>                                                                                                                                     |
| 870P            | A RELATED FACTORS-CRASH LEVEL 001-007, 012-028 can be used only once per crash.                                                        | --                                                                                                                                                                                               |
| 880F            | RELATED FACTORS-CRASH LEVEL equals 016,                                                                                                | there must be a Person Level (Not a MV Occupant) form with PERSON TYPE equal to 04-07, 11, 12, 13, or 19.                                                                                        |
| 881P            | RELATED FACTOR - CRASH LEVEL equals 024,                                                                                               | RELATION TO TRAFFICWAY must not equal 01 or 11.                                                                                                                                                  |
| 890F            | RELATED FACTORS-CRASH LEVEL equals 015,                                                                                                | there must be a Person Level (Not a MV Occupant) form with PERSON TYPE equal to 04-07, 10-13, or 19.                                                                                             |
| 8L8S            | AREAS OF IMPACT (THIS VEHICLE) equals 18, 19, or 20 in the CRASH EVENTS and the corresponding event in that row equals 14, 45, or 54,  | RELATED FACTORS-CRASH LEVEL must equal 014.                                                                                                                                                      |
| 8L8T            | RELATED FACTORS-CRASH LEVEL equals 014,                                                                                                | there must exist at least one event in the CRASH EVENTS where AREAS OF IMPACT (THIS VEHICLE or OTHER VEHICLE) equals 18, 19, or 20 and the corresponding event in that row equals 14, 45, or 54. |
| 8L8U            | AREAS OF IMPACT (THIS VEHICLE) equals 18, 19, or 20 in the CRASH EVENTS and the corresponding event in that row equals 08, 09, 15, 49, | RELATED FACTORS-CRASH LEVEL must equal 015.                                                                                                                                                      |

| <b>Error ID</b> | <b>IF</b>                                                                       | <b>THEN</b>                                                                                                                                                                                 |
|-----------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8L8V            | RELATED FACTORS-CRASH LEVEL equals 015,                                         | there must exist at least one event in the CRASH EVENTS where AREAS OF IMPACT (THIS VEHICLE) equals 18, 19, or 20, and the corresponding event in that row equals 08-10, 15, 18, 49, or 91. |
| AM1P            | FIRST HARMFUL EVENT equals 54, or SEQUENCE OF EVENTS equals 54 for any vehicle, | one RELATED FACTORS-CRASH LEVEL must equal 014.                                                                                                                                             |
| D470            | any RELATED FACTORS-DRIVER LEVEL equals 037,                                    | at least one RELATED FACTORS-CRASH LEVEL should equal 020.                                                                                                                                  |
| D500            | VIOLATIONS CHARGED equals 05,                                                   | at least one RELATED FACTORS-CRASH LEVEL should equal 020.                                                                                                                                  |
| PB63            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 230,                    | at least one RELATED FACTORS - CRASH LEVEL should equal 019 or 023.                                                                                                                         |
| PBB3            | PEDESTRIAN/BIKE TYPING-PEDESTRIAN CRASH TYPE equals 341 or 342,                 | RELATED FACTORS - CRASH LEVEL should equal 031.                                                                                                                                             |

### C33 - Interstate Highway - CRSS Only

**FORMAT:** 1 numeric

**SAS NAME:** Accident.INT\_HWY

**ELEMENT VALUES:**

| Codes | Attributes              |
|-------|-------------------------|
| 0     | <a href="#">No</a>      |
| 1     | <a href="#">Yes</a>     |
| 9     | <a href="#">Unknown</a> |

**Definition:** This element identifies whether or not the crash occurred on an interstate highway. Interstate highway is a Federal Highway Administration classification.

**Remarks:** The Interstate Highway System includes those trafficways that are within the national system for interstate transport and defense purposes. Interstates typically have limited access and multiple lanes of travel.

Crashes that occur on ramps leading to or away from an Interstate should be coded [1 \(Yes\)](#).

**0 (No)** is used when the police crash report indicates that the crash occurred on any of the following: US Highway, State Highway, County Road, Township Road, or Municipal Road.

**1 (Yes)** is used when the police crash report indicates the crash occurred on an interstate highway. Some police crash reports use a specific block to indicate interstate. Interstate can also be identified by the prefix “I” used in the roadway name.

**9 (Unknown)** is used when it cannot be determined whether the trafficway where the crash occurred was an interstate or not.

**Consistency Checks** [\(See Section 400\)](#):

| Error ID | IF                                                                                                                                        | THEN                                                                                                          |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| A3G0     | INTERSTATE HIGHWAY equals 1, and<br>RELATION TO JUNCTION (a) equals 1, and<br>RELATION TO JUNCTION (b) is not equal to<br>03 or 05 or 20, | TOTAL LANES IN ROADWAY should not<br>equal 1 for at least one vehicle involved in the<br>FIRST HARMFUL EVENT. |
| A3H0     | INTERSTATE HIGHWAY equals 1, and<br>RELATION TO JUNCTION (a) equals 1, and<br>RELATION TO JUNCTION (b) is not equal to<br>03 or 05 or 20, | TRAFFICWAY DESCRIPTION should not<br>equal 4 for at least one vehicle involved in the<br>FIRST HARMFUL EVENT. |
| A3I0     | INTERSTATE HIGHWAY equals 1,                                                                                                              | RELATION TO JUNCTION (b) should not<br>equal 02, 04, 06, 08, or 16.                                           |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                 | <b>THEN</b>                                                                                                                         |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| A3J0            | INTERSTATE HIGHWAY equals 1, and<br>RELATION TO JUNCTION (a) equals 1, and<br>RELATION TO JUNCTION (b) is not equal to<br>03 or 05 or 20, | SPEED LIMIT should not equal 01-40 for at<br>least one vehicle involved in the FIRST<br>HARMFUL EVENT.                              |
| A3K0            | FIRST HARMFUL EVENT equals 10,                                                                                                            | INTERSTATE HIGHWAY should not equal 1.                                                                                              |
| A930            | INTERSTATE HIGHWAY equals 1, and<br>RELATION TO JUNCTION (a) equals 1, and<br>RELATION TO JUNCTION (b) is not equal to<br>03, 05, or 20,  | TRAFFIC CONTROL DEVICE should not<br>equal 01-03, 20, 23, or 65 for at least one<br>vehicle involved in the FIRST HARMFUL<br>EVENT. |

### C34 - Stratum - CRSS Only

**FORMAT:** 1 numeric

**SAS NAME:** Accident.STRATUM

**ELEMENT VALUES:**

| Codes | Stratum Numbers            |
|-------|----------------------------|
| 2     | <a href="#">Stratum 2</a>  |
| 3     | <a href="#">Stratum 3</a>  |
| 4     | <a href="#">Stratum 4</a>  |
| 5     | <a href="#">Stratum 5</a>  |
| 6     | <a href="#">Stratum 6</a>  |
| 7     | <a href="#">Stratum 7</a>  |
| 8     | <a href="#">Stratum 8</a>  |
| 9     | <a href="#">Stratum 9</a>  |
| 10    | <a href="#">Stratum 10</a> |

**Definition:** The CRSS stratum applicable to this police crash report.

**Remarks:** Only motor vehicle traffic crashes are included in the CRSS. See the current **CRSS Sampling Manual**, for the definition of a CRSS crash.

#### CRSS Strata Definitions

| Stratum # | Definition                                                                                                                                                                                                |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Stratum 2 | Crashes involving at least one injured (A, B, C, or ISU*) or Killed (K) person who was not in a motor vehicle (i.e., non-motorist).                                                                       |
| Stratum 3 | Crashes not qualifying for Stratum 2 involving at least one injured (A, B, C, or ISU*) or Killed (K) occupant of a motorcycle or moped.                                                                   |
| Stratum 4 | Crashes not qualifying for Strata 2 or 3 involving at least one occupant of a late model year (LMY) passenger vehicle who was injured with a Suspected Serious Injury (A) or Killed (K).                  |
| Stratum 5 | Crashes not qualifying for Strata 2, 3, or 4 involving at least one occupant of a non-late model year (NLMY) passenger vehicle who was injured with a Suspected Serious Injury (A) or Killed (K).         |
| Stratum 6 | Crashes not qualifying for Strata 2, 3, 4, or 5 involving at least one occupant of a late model year (LMY) passenger vehicle who was injured (B, C, or ISU*).                                             |
| Stratum 7 | Crashes not qualifying for Strata 2, 3, 4, 5, or 6 involving at least one medium or heavy truck or bus (includes school bus, transit bus, and motor coach) with GVWR equal to or greater than 10,001 lbs. |
| Stratum 8 | Crashes not qualifying for Strata 2, 3, 4, 5, 6, or 7 involving at least one occupant of a non-late model year (NLMY) passenger vehicle who was injured (B, C, or ISU*).                                  |



| Stratum #  | Definition                                                                                                                                                                                                              |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Stratum 9  | Crashes not qualifying for Strata 2, 3, 4, 5, 6, 7, or 8 involving at least one late model year (LMY) passenger vehicle <u>AND</u> no one in the in-transport vehicle(s) were injured (A, B, C, or ISU*) or Killed (K). |
| Stratum 10 | Crashes not qualifying for Strata 2, 3, 4, 5, 6, 7, 8, or 9.                                                                                                                                                            |

**\*ISU = Injured, Severity Unknown**

### **Important Notes:**

- A. In stratum 2, non-motorist does not include occupants of a motor vehicle not in-transport.
- B. Only the contact motor vehicle(s) that are in-transport are considered in determining the applicable stratum. Therefore, injuries sustained by occupants of motor vehicles that are not in-transport are not considered for stratification.
- C. A motor vehicle with no occupants that is in-transport IS considered in the stratification.
- D. Late model year (LMY): the vehicle model year is equal to the crash year, the following year, or 4 prior years.
- E. Non-late model year (NLMY): the vehicle model year is older than 4 prior years or the model year of the vehicle is unknown.

### **Unstabilized Situations**

As defined by [ANSI D-16 8th edition](#), Section 2.4.4, “An unstabilized situation is a set of events not under human control. It originates when control is lost and terminates when control is regained or, in the absence of people who are able to regain control, when all people and property are at rest.” “Property” can refer to the involved vehicles, separated components of the vehicles, cargo, or objects set in motion. The duration of an unstabilized situation establishes the beginning and end of an individual crash.

At times, one police crash report may contain more than one crash. This may happen when events constituting a crash have stabilized and units involved in the first sequence are subsequently involved in another crash sequence and recorded on the same police crash report. If more than one crash is recorded on a police crash report, ALL of the crashes are to be listed and stratified separately. This includes CRSS, NTS, and those that are Out-of-Scope. ***If multiple crashes are not detected until the coding process, the crash that matches the stratum should be coded, as that is the anticipated crash selected by PARSE.*** In a multi-vehicle crash, if it cannot be determined conclusively that all people and property had come to rest at some point prior to the involvement of all vehicles listed on the police crash report, the events would be part of a single unstabilized situation and thus considered one crash.

### **Consistency Check (CRSS Only) ([See Section 400](#)):**

| Error ID | Error Message                                        |
|----------|------------------------------------------------------|
| 5AAP     | The Final STRATUM should equal the Original STRATUM. |

### **C35 - Police Jurisdiction - CRSS Only**

**FORMAT:** 3 numeric

**SAS NAME:** Accident.PJ

**ELEMENT VALUES:**

| <b>Codes</b> | <b>Attributes</b> |
|--------------|-------------------|
| 001-128      | Range             |

**Definition:** The number of the police jurisdiction from which the police crash report was originally sampled.

**Remarks:** This is the police jurisdiction from which the police crash report is selected. It is written at the top of the police crash report and is prefaced by the character “PJ.” The police jurisdiction may also be shown as the second of three numbers separated by -s. The first number in the set of three is the primary sampling unit, the second is the police jurisdiction, and the third is the police crash report number. The jurisdiction number written on the police crash report must match the number shown in the “CRSS Input Form” Police Crash Report/Jurisdiction field.

**Additional State Information**

**FORMAT:** Alphanumeric

**SAS NAME:** None

**ELEMENT VALUES:**

- Blanks
- Any Alphanumeric Characters

**Remarks:** This space is reserved for each individual State's use. Suggested uses depend on potential needs of the State. This space may contain:

1. Police crash report number.
2. Additional crash location information.

If HPMS number is available, it may be inserted here.

## Vehicle Level Data Elements

[V1 - State Number - FARS Only](#)

[V2 - Consecutive Number - FARS Only](#)

[V3 - Vehicle Number - Vehicle Level](#)

[V4 - Number of Occupants](#)

[V5 - Unit Type](#)

[V6 - Hit-and-Run](#)

[V7 - Registration State](#)

[V8 - Registered Vehicle Owner - FARS Only](#)

[\*\*vPIC Make / vPIC Model / vPIC Body Class Overview\*\*](#)

[V9 - Vehicle Identification Number](#)

[V10 - Vehicle Model Year](#)

[\*\*V11 - vPIC Make\*\*](#)

[\*\*V12 - vPIC Model\*\*](#)

[\*\*V13 - vPIC Body Class\*\*](#)

[V14 - NCSA Make](#)

[V15 - NCSA Model](#)

[V16 - NCSA Body Type](#)

[\*\*V17 - Final Stage Body Class\*\*](#)

[\*\*V18 - Power Unit Gross Vehicle Weight Rating\*\*](#)

[V19 - Vehicle Trailing](#)

[V20 - Trailer Vehicle Identification Number](#)

[\*\*V21 - Trailer Gross Vehicle Weight Rating\*\*](#)

[V22 - Jackknife](#)

[V23 - Motor Carrier Identification Number](#)

[V24 - Vehicle Configuration](#)

[V25 - Cargo Body Type](#)

[V26 - Hazardous Materials Involvement / Placard](#)

[V27 - Bus Use](#)

[V28 - Special Use](#)

[V29 - Emergency Motor Vehicle Use](#)

[V30 - Travel Speed](#)

[V31 - Underride/Override - FARS Only](#)

[V32 - Rollover](#)

[V33 - Location of Rollover](#)

[V34 - Areas of Impact - Initial Contact Point / Damaged Areas](#)

[V35 - Extent of Damage](#)

[V36 - Vehicle Removal](#)

[V37 - Sequence of Events](#)

[V38 - Most Harmful Event](#)

[V39 - Fire Occurrence](#)

[V40 - Motor Vehicle Automated Driving System\(s\)](#)

[V41 - Related Factors - Vehicle Level](#)

### V3 - Vehicle Number - Vehicle Level

**FORMAT:** 3 numeric

**SAS NAME:** Vehicle.VEH\_NO, Parkwork.VEH\_NO

**ELEMENT VALUES:**

| Codes   | Attributes      |
|---------|-----------------|
| 001-999 | Assigned Number |

**Definition:** This element identifies the number assigned to this vehicle in the crash.

**Remarks:** Each motor vehicle in a crash must be assigned a unique number. The numbers assigned to vehicles must be consecutive, starting with “001” with no missing numbers.

Motor vehicles are assigned the police crash report’s vehicle number unless a number is skipped because of a non-contact vehicle included on the police crash report with a vehicle number or a non-motorist included with a unit number.

**Consistency Checks** ([See Section 400](#)):

| Error ID | IF                                                                                                                                                                                      | THEN                                                                                                                                  |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| 060P     | VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is not equal to 000,                                                                                                              | the VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST must equal some VEHICLE NUMBER in the case, and the UNIT TYPE must equal 1. |
| CSI5     | VEHICLE NUMBER at the Person Level is greater than 000,                                                                                                                                 | VEHICLE NUMBER at the Person Level must equal a VEHICLE NUMBER at the Vehicle Level.                                                  |
| CSI6     | For each VEHICLE NUMBER, PERSON NUMBERS must be consecutive, beginning with 001 and with no gaps.                                                                                       | --                                                                                                                                    |
| PBA0     | PEDESTRIAN/ BIKE TYPING - CRASH TYPE - BICYCLE equals 111, 211, 212, and VEHICLE NUMBER - VEHICLE LEVEL equals VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST,                   | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 11.                                                          |
| PBA1     | PEDESTRIAN/ BIKE TYPING - CRASH TYPE - BICYCLE equals 112, 151, 213, 214, 217, or 218, and VEHICLE NUMBER - VEHICLE LEVEL equals VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST, | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 10.                                                          |

## V4 - Number of Occupants

**FORMAT:** 2 numeric

**SAS NAME:** Vehicle.NUMOCCS, Parkwork.PNUMOCCS

**ELEMENT VALUES:**

| Codes | Attributes                                     |
|-------|------------------------------------------------|
| 00    | <a href="#">None</a>                           |
| 01-98 | <a href="#">Actual Value* [if Total Known]</a> |
| 99    | <a href="#">Unknown</a>                        |

**Definition:** This element identifies the number of occupants in each vehicle.

**Remarks:** This data element must be coded for each motor vehicle involved in the crash. Code the total number of occupants (**injured and uninjured**) in this motor vehicle. In bus crashes, the total number of occupants, including the driver, must be entered.

**00 (None)** is used when this motor vehicle is unoccupied.

**01-98 (Actual Value\* [If Total Known])** is used when the number of occupants in the vehicle is known. [Person Level \(MV Occupant\) forms](#) should be submitted for all known occupants (even if there is no information in the case material).

**Buses are an exception.** For buses ([NCSA BODY TYPES 50-52, 55, 58, 59](#)), the total number of occupants, including the driver, should be recorded, but [Person Level \(MV Occupant\) forms](#) should only be submitted for occupants known to be injured and for the driver, whether the driver is known to be injured or not. **NOTE:** This does NOT apply to small van-based buses ([NCSA BODY TYPE 21](#)). Always submit a person level form for all occupants of van-based vehicles, including small van-based buses.

**99 (Unknown)** is used when the number of occupants for the motor vehicle is unknown. Unless evidence clearly establishes the number of occupants present, this code is used when this motor vehicle is a “hit-and-run” vehicle.

If the actual number of motor vehicle occupants is unknown, [Person Level \(MV Occupant\) forms](#) should be submitted for all known occupants (even if there is no information on the police crash report).

**Buses are an exception.** For buses ([NCSA BODY TYPES 50-52, 55, 58, 59](#)), if the total number of occupants is unknown, Person Level (MV Occupant) forms should be submitted for the driver (if there was one) and all occupants known to be injured. This does NOT apply to small van-based buses ([NCSA BODY TYPE 21](#)). If the total number of occupants is unknown for small van-based buses ([NCSA BODY TYPE 21](#)), always submit a person level form for all known occupants (even if there is no information in the case material).

Also use **99 (Unknown)** when the State reports information only on drivers and INJURED passengers and the total number of occupants is unknown.

\* Values greater than 30 are unlikely and will raise a “U” flag.

Consistency Checks [\(See Section 400\)](#):

| Error ID | IF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | THEN                                                                                        |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| 2F0F     | NUMBER OF OCCUPANTS equals 00,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DRIVER PRESENCE must equal 0.                                                               |
| 4F3P     | NUMBER OF OCCUPANTS is 01-98, and <b>vPIC BODY CLASS</b> equals <b>117 (Limousine)</b> ,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | NUMBER OF OCCUPANTS <b>should</b> not be greater than <b>16</b> .                           |
| 5F0F     | NUMBER OF OCCUPANTS equals 00-98, and <b>vPIC BODY CLASS</b> <b>does not equal 016 (Bus), 068 (Streetcar / Trolley), or 73 (Bus-School Bus), and FINAL STAGE BODY CLASS does not equal 016 (Bus), 068 (Streetcar / Trolley), or 73(Bus-School Bus)</b> ,                                                                                                                                                                                                                                                                                                                                                                                      | the number of Person Level forms for that vehicle must be equal to the NUMBER OF OCCUPANTS. |
| 622P     | HIT-AND-RUN equals 1,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | it is unlikely that NUMBER OF OCCUPANTS equals 0-98.                                        |
| BJ4P     | any DRIVER DISTRACTED BY equals 03,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | NUMBER OF OCCUPANTS must be greater than 01.                                                |
| V170     | NUMBER OF OCCUPANTS <b>equals 01-98, and vPIC BODY CLASS equals 001 (Convertible/Cabriolet), 003 (Coupe), 004 (Low Speed Vehicle (LSV) / Neighborhood Electric Vehicle (NEV)), 005 (Hatchback/Liftback/Notchback), 010 (Roadster), 013 (Sedan/Saloon), 060 (Pickup), 088 (Off-road Vehicle - Go Kart), 105 (Off-road Vehicle - Recreational Off-Road Vehicle (ROV)), 124 (Off-road Vehicle - Golf Cart), 126 (Off-road Vehicle - Farm Equipment), 127 (Off-road Vehicle - Construction Equipment), or 997 (Other), or FINAL STAGE BODY CLASS equals 004 (Low Speed Vehicle (LSV) / Neighborhood Electric Vehicle (NEV)) or 060 (Pickup)</b> , | NUMBER OF OCCUPANTS should not be greater than 6.                                           |
| V190     | NUMBER OF OCCUPANTS is 01-98, and <b>FINAL STAGE BODY CLASS</b> equals <b>117 (Limousine)</b> ,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | NUMBER OF OCCUPANTS should not be greater than <b>30</b> .                                  |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>THEN</b>                                                |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| V200            | NUMBER OF OCCUPANTS is 01-98, and <b>vPIC BODY CLASS equals a motorcycle (006, 012, 080, 081, 082, 083, 084, 085, 086, 087, 090, 094, 098, 104, 109, 110, 113, 114, 125, 996), 100 (Motorcycle - Enclosed Three Wheeled / Enclosed Autocycle), 103 (Motorcycle - Unenclosed Three Wheeled / Open Autocycle), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), or 097 (Off-road Vehicle - Snowmobile),</b> | NUMBER OF OCCUPANTS should not be greater than <b>15</b> . |
| V210            | NUMBER OF OCCUPANTS is 01-98, <b>vPIC BODY CLASS equals 002 (Minivan), 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 008 (Crossover Utility Vehicle (CUV)), 009 (Van), 15 (Wagon), or 119 (Sport Utility Truck (SUT)), or FINAL STAGE BODY CLASS equals 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 008 (Crossover Utility Vehicle (CUV)), 15 (Wagon), or 119 (Sport Utility Truck),</b>    | NUMBER OF OCCUPANTS should not be greater than <b>15</b> . |
| V220            | NUMBER OF OCCUPANTS is 01-98, and <b>vPIC BODY CLASS equals 011 (Truck), 066 (Truck-Tractor), 095 (Cargo Van), 111 (Step Van / Walk-in Van), or FINAL STAGE BODY CLASS equals 011 (Truck), 066 (Truck-Tractor), 095 (Cargo Van), or 111 (Step Van / Walk-in Van),</b>                                                                                                                                                           | NUMBER OF OCCUPANTS should not be greater than <b>4</b> .  |
| V260            | <b>vPIC BODY CLASS equals 999 (Unknown),</b>                                                                                                                                                                                                                                                                                                                                                                                    | NUMBER OF OCCUPANTS <b>should equal 0-10 or 99.</b>        |
| V401            | <b>NUMBER OF OCCUPANTS is 01-98, and vPIC BODY CLASS equals 108 (Motorhome), or FINAL STAGE BODY CLASS equals 108 (Motorhome),</b>                                                                                                                                                                                                                                                                                              | <b>NUMBER OF OCCUPANTS should not be greater than 8.</b>   |
| V402            | <b>NUMBER OF OCCUPANTS is 01-98, and vPIC BODY CLASS equals 073 (Bus - School Bus), or FINAL STAGE BODY CLASS equals 073 (Bus - School Bus),</b>                                                                                                                                                                                                                                                                                | <b>NUMBER OF OCCUPANTS should not be greater than 50.</b>  |
| V450            | <b>NUMBER OF OCCUPANTS is 01-98, and vPIC BODY CLASS equals equal 016 (Bus) or 068 (Streetcar / Trolley), or FINAL STAGE BODY CLASS equals 016 (Bus) or 068 (Streetcar / Trolley),</b>                                                                                                                                                                                                                                          | <b>NUMBER OF OCCUPANTS should not be greater than 60.</b>  |



## V5 - Unit Type

**FORMAT:** 1 numeric

**SAS NAME:** Vehicle.UNITTYPE, Parkwork.PTYPE

**ELEMENT VALUES:**

| Codes | Attributes                                                                              |
|-------|-----------------------------------------------------------------------------------------|
| 1     | <a href="#">Motor Vehicle In-Transport (Inside or Outside the Trafficway)</a>           |
| 2     | <a href="#">Motor Vehicle Not In-Transport Within the Trafficway</a>                    |
| 3     | <a href="#">Motor Vehicle Not In-Transport Outside the Trafficway</a>                   |
| 4     | <a href="#">Working Motor Vehicle</a> (Highway Construction, Maintenance, Utility Only) |

**Definition:** This element identifies the type of unit that applies to this motor vehicle at the time it became an involved vehicle in the crash and was reported as a unit on the police crash report.

**Remarks: IMPORTANT:** Remember, you must have at least one Motor Vehicle In-Transport involved in the crash for this to be a reportable case. *If a Working Motor Vehicle is parked while performing its work (e.g., a bucket truck is parked on the shoulder while a worker is working on utility lines) use code [4 \(Working Motor Vehicle \[Highway Construction, Maintenance, Utility Only\]\)](#). If that same vehicle is not performing its work, then use code [2 \(Motor Vehicle Not In-Transport Within the Trafficway\)](#) or code [3 \(Motor Vehicle Not In-Transport Outside the Trafficway\)](#) depending upon the situation.*

**NOTE:** For UNIT TYPE attributes “2-4,” you must only submit selected elements on the Vehicle Level. The elements [JACKKNIFE](#), [TRAVEL SPEED](#), and [SEQUENCE OF EVENTS](#) are not coded. Also, all elements on the Driver level must be left blank, except [DRIVER PRESENCE](#) and [RELATED FACTORS-DRIVER LEVEL](#). RELATED FACTORS-DRIVER LEVEL must be coded **000**.

**1 (Motor Vehicle In-Transport [Inside or Outside the Trafficway])** is used to indicate that this is a motor vehicle in-transport. “In-Transport” means any part of the vehicle’s primary outline as defined by the four sides of the vehicle (excluding open doors or mirrors) or load, if any, is within the roadway (travel lanes) or the vehicle is in motion anywhere within or outside the trafficway boundaries.

### Examples:

1. Motor vehicle in traffic on the highway.
2. Motionless motor vehicle abandoned on the roadway travel lanes.
3. Motor vehicle on roadway stopped at traffic signal.
4. Motor vehicle driving or in motion on the shoulder, median, or roadside.
5. Motor vehicle driving down a private driveway.
6. Motor vehicle in motion, outside the trafficway boundaries (vehicle pulling up to a pump in a gas station, not within trafficway; vehicle in motion in a parking lot aisle; lawn

tractor driving in a field adjacent to the trafficway; ATV driving on a dirt track next to trafficway; etc.).

7. A tractor trailer with its load hanging over the roadway edge line.
8. A pickup truck on the shoulder with lumber extending into the travel lanes.

**2 (Motor Vehicle Not In-Transport Within the Trafficway)** is used to indicate that this is a motor vehicle **not** in-transport located **within** the trafficway boundaries when it became an involved unit. The trafficway boundaries are from property line to property line. If it can't be determined if a not in-transport, non-working motor vehicle is within or outside the trafficway, use code [3 \(Motor Vehicle Not In-Transport Outside the Trafficway\)](#).

**Examples:**

1. Motor vehicle parked in designated curbside parking lane.
2. Motor vehicle parked in designated curbside parking lane with an open door crossing into the travel lane.
3. Motor vehicle stopped completely on the shoulder, median, or roadside.

**3 (Motor Vehicle Not In-Transport Outside the Trafficway)** is used to indicate that this is a motor vehicle **not** in-transport located **outside** the trafficway boundaries when it became an involved unit by being struck by a motor vehicle in-transport. If it can't be determined if a not in-transport, non-working motor vehicle is within or outside the trafficway, use code **3 (Motor Vehicle Not In-Transport Outside the Trafficway)**.

**Examples:**

1. Motor vehicle parked in a private driveway, parking lot space, or other private property (outside the trafficway boundaries).
2. Any vehicle (not in motion) used for private construction occurring outside the trafficway boundaries.

**4 (Working Motor Vehicle [Highway Construction, Maintenance, Utility Only])** is used to indicate that this is a motor vehicle that was in the act of performing highway construction, maintenance, or utility work related to the trafficway when it became an involved unit. The vehicle should be known to be in the act of performing work. This "work" may be located within open or closed portions of the trafficway and motor vehicles performing these activities can be within or outside the trafficway boundaries. This code does not include private construction/maintenance vehicles, or vehicles such as garbage trucks, delivery trucks, taxis, emergency vehicles (except example #8 below), tow trucks, etc. **DO NOT evaluate this attribute on NCSA Body Type alone.**

**Examples:**

1. Asphalt/steam roller working in a highway construction zone paving the roadway or flattening dirt.
2. State highway maintenance crew painting lane lines on the road, mowing grass on the roadside or median, repairing potholes, removing debris from the roadway, etc.
3. Utility truck or a "cherry picker," performing maintenance on power lines along the roadway or maintaining a traffic signal.

4. A private excavating company contracted by the State digging the foundation for a new overpass.
5. A State, county, or privately-owned snowplow, plowing ice/snow as part of a highway maintenance activity.
6. Street sweeper sweeping the street.
7. A vehicle in a mobile work convoy displaying arrow boards or other signaling devices warning motorists of the work activity.
8. A law enforcement vehicle that is participating strictly in a stationary construction or mobile maintenance activity as a traffic slowing, control, signaling, or calming influence.

When not in the act of performing “work,” or it cannot be determined if the vehicle was in the act of performing “work,” and involved in the crash, these highway construction, maintenance, or utility vehicles can be:

1. In-Transport when traveling from one construction site to the next (UNIT TYPE [1 \(Motor Vehicle In-Transport \[Inside or Outside the Trafficway\]\)](#)).
2. Not In-Transport Within the Trafficway when stopped on the shoulder (UNIT TYPE [2 \(Motor Vehicle Not In-Transport Within the Trafficway\)](#)). Example: A dump truck is struck on the shoulder and it cannot be determined if it was in the act of performing “work.”
3. Not In-Transport Outside the Trafficway when parked and refueling at a depot (UNIT TYPE [3 \(Motor Vehicle Not In-Transport Outside the Trafficway\)](#)).
4. In-Transport Outside the Trafficway when relocating off the trafficway from a work activity area to another off-trafficway parking location.

**Consistency Checks [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                                                                    | <b>THEN</b>                                                                                                                           |
|-----------------|------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| 060P            | VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is not equal to 000,   | the VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST must equal some VEHICLE NUMBER in the case, and the UNIT TYPE must equal 1. |
| 1D1P            | SPECIAL USE equals 24,                                                       | UNIT TYPE must equal 4.                                                                                                               |
| 252P            | RELATION TO TRAFFICWAY equals 01, 02, 03, 04, 07, 08, 10, 11, 12, 98, or 99, | UNIT TYPE for VEHICLE NUMBER (OTHER VEHICLE) involved in the FIRST HARMFUL EVENT must not equal 3.                                    |
| 255P            | RELATION TO TRAFFICWAY equals 01 or 11,                                      | UNIT TYPE for VEHICLE NUMBER (THIS VEHICLE) involved in the FIRST HARMFUL EVENT must equal 1.                                         |
| 256P            | RELATION TO TRAFFICWAY equals 01 or 11,                                      | UNIT TYPE for VEHICLE NUMBER (OTHER VEHICLE) involved in the FIRST HARMFUL EVENT should equal 1 or 4.                                 |

| <b>Error ID</b> | <b>IF</b>                                                                               | <b>THEN</b>                                                                                                                                                                                   |
|-----------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 257P            | RELATION TO TRAFFICWAY equals 05,                                                       | UNIT TYPE for VEHICLE NUMBER (OTHER VEHICLE) involved in the FIRST HARMFUL EVENT must equal 1, 3, or 4.                                                                                       |
| 2H1F            | UNIT TYPE equals 1, and DRIVER PRESENCE equals 0 or 9,                                  | DRIVER'S VISION OBSCURED BY must equal 95.                                                                                                                                                    |
| 3BAP            | UNIT TYPE equals 1, and DRIVER PRESENCE equals 0,                                       | CRASH TYPE must equal 00, 04, 09, 15, 32, 42, 48, 52, 62, 66, 74, 84, 90, 93, or 98.                                                                                                          |
| 42BP            | there is only one vehicle involved in the FIRST HARMFUL EVENT where UNIT TYPE equals 1, | the number of vehicles where CRASH TYPE is coded 00, 1-16, 92, 93, or 99 (excluding from the vehicles being counted, those where CRASH TYPE equals 98) must not equal 0 or be greater than 1. |
| 4W6P            | any RELATED FACTORS-PERSON LEVEL (MV Occupant) equals 021 or 089,                       | PERSON TYPE must equal 3, SEATING POSITION must equal 11, and UNIT TYPE must equal 2, 3, or 4.                                                                                                |
| 4Z1P            | UNIT TYPE equals 1, and FIRE OCCURRENCE equals 1,                                       | at least one SEQUENCE OF EVENTS must equal 02.                                                                                                                                                |
| 4Z2P            | UNIT TYPE equals 4,                                                                     | there must be at least one record in CRASH EVENTS TABLE with SEQUENCE OF EVENT equal to 45 for that vehicle VEHICLE NUMBER (OTHER VEHICLE).                                                   |
| 4Z3P            | UNIT TYPE equals 2 or 3                                                                 | there must be at least one record in CRASH EVENTS TABLE with SEQUENCE OF EVENT equal to 14 for that vehicle VEHICLE NUMBER (OTHER VEHICLE).                                                   |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>THEN</b>                                                         |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| 5A0P            | <b><i>vPIC BODY CLASS equals 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 104 (Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle), and any RELATED FACTORS - VEHICLE LEVEL does not equal 030,</i></b> | ROLLOVER must equal 0.                                              |
| 9A3P            | UNIT TYPE equals 2-4,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | DRIVER PRESENCE must equal 0.                                       |
| 9A5P            | PERSON TYPE equals 03,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | UNIT TYPE must equal 2-4.                                           |
| 9B7P            | UNIT TYPE equals 2-4,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | PERSON TYPE of all occupants of this vehicle must equal 03.         |
| 9B9P            | any SEQUENCE OF EVENTS equals 55,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | there must be at least one other vehicle with UNIT TYPE equal to 1. |
| 9C0P            | FIRST HARMFUL EVENT equals 55,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | there must be at least one vehicle with UNIT TYPE equal to 1.       |
| 9C1P            | UNIT TYPE equals 4,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | RELATED FACTORS-VEHICLE LEVEL must not equal 039.                   |
| 9C4P            | UNIT TYPE equals 1, and DRIVER PRESENCE equals 0 or 9,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DRIVER MANEUVERED TO AVOID must only equal 95.                      |
| 9C6P            | UNIT TYPE equals 2-4,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | RELATED FACTORS-DRIVER LEVEL must equal 000.                        |
| A044            | CRASH EVENTS TABLE - SEQUENCE OF EVENT equals 45,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | the UNIT TYPE for VEHICLE NUMBER (OTHER VEHICLE) must equal 4.      |
| A045            | CRASH EVENTS TABLE - SEQUENCE OF EVENT equals 14,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | the UNIT TYPE for VEHICLE NUMBER (OTHER VEHICLE) must equal 2 or 3. |
| A046            | The UNIT TYPE for VEHICLE NUMBER (THIS VEHICLE) in the CRASH EVENTS must equal 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | --                                                                  |

| <b>Error ID</b> | <b>IF</b>                                                                               | <b>THEN</b>                                                                      |
|-----------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| A047            | CRASH EVENTS TABLE - VEHICLE NUMBER (OTHER VEHICLE) UNIT TYPE is 1,                     | SEQUENCE OF EVENT must equal 12, 54, or 55 for that row.                         |
| AL3P            | UNIT TYPE equals 2-4,                                                                   | MOST HARMFUL EVENT must not equal 54 for this vehicle.                           |
| AL5P            | UNIT TYPE equals 1,                                                                     | at least one event in the SEQUENCE OF EVENTS must equal the MOST HARMFUL EVENT.  |
| AL7P            | UNIT TYPE equals 2-4,                                                                   | MOST HARMFUL EVENT should not equal 04-07, 16, 51, 72.                           |
| AL9P            | there is one and only one parked vehicle (UNIT TYPE equals 2 or 3) in the crash,        | MOST HARMFUL EVENT for the parked vehicle must not equal 14.                     |
| AZ20            | UNIT TYPE equals 1, and DRIVER PRESENCE equals 0 or 9,                                  | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 00.       |
| BJ1P            | UNIT TYPE equals 1, and DRIVER PRESENCE equals 0 or 9,                                  | DRIVER DISTRACTED BY must equal 16.                                              |
| BJ2P            | UNIT TYPE equals 1, and DRIVER PRESENCE equals 1,                                       | DRIVER DISTRACTED BY must not equal 16 or blank.                                 |
| BJ3P            | UNIT TYPE equals 1, and DRIVER DISTRACTED BY equals 16,                                 | DRIVER PRESENCE must equal 0 or 9.                                               |
| BJ5P            | If UNIT TYPE equals 1 and HIT AND RUN equals 1,                                         | then DRIVER PRESENCE should not equal 0.                                         |
| FP2F            | UNIT TYPE equals 1, and CRASH TYPE equals blank,                                        | case status is flawed.                                                           |
| FP3F            | UNIT TYPE is blank,                                                                     | case status is flawed.                                                           |
| FP6F            | UNIT TYPE equals 1, and CRITICAL EVENT - PRECRASH (CATEGORY) equals blank,              | case status is flawed.                                                           |
| FP7F            | UNIT TYPE equals 1, and CRITICAL EVENT - PRECRASH (EVENT) equals blank,                 | case status is flawed.                                                           |
| U690            | UNLIKELY: UNIT TYPE equals 2-4 and HIT and RUN equals 1.                                | --                                                                               |
| V74P            | UNIT TYPE equals 1, and ROLLOVER equals 1, 2, 9, or LOCATION OF ROLLOVER equals 1-7, 9, | at least one SEQUENCE OF EVENTS must equal 01 for this vehicle.                  |
| VH70            | UNIT TYPE equals 2-4,                                                                   | elements JACKKNIFE, TRAVEL SPEED, AND SEQUENCE OF EVENTS must all be left blank. |

| <b>Error ID</b> | <b>IF</b>           | <b>THEN</b>                                            |
|-----------------|---------------------|--------------------------------------------------------|
| VH75            | UNIT TYPE equals 4, | VEHICLE CONFIGURATION should not equal 05, 20, 21, 10. |
| VH80            | UNIT TYPE equals 4, | CARGO BODY TYPE should not equal 06, 07, 11, 12, 22.   |

**Consistency Checks (FARS Only) [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                    | <b>THEN</b>                                                   |
|-----------------|------------------------------|---------------------------------------------------------------|
| 9A2P            | UNIT TYPE equals 2, 3,       | REGISTERED VEHICLE OWNER must equal 6.                        |
| 9B3P            | UNDERRIDE/OVERRIDE equals 7, | there must be at least one vehicle with UNIT TYPE equal to 1. |
| 9B4P            | UNDERRIDE/OVERRIDE equals 8, | there must at least one vehicle with UNIT TYPE equal 2-4.     |
| 9B5P            | UNIT TYPE equals 2, 3,       | UNDERRIDE/OVERRIDE must equal 0.                              |
| VH25            | UNIT TYPE equals 4,          | REGISTERED VEHICLE OWNER should not equal 6, 9.               |

## V6 - Hit-and-Run

**FORMAT:** 1 numeric

**SAS NAME:** Vehicle.HIT\_RUN, Parkwork.PHIT\_RUN

### ELEMENT VALUES:

| Codes | Attributes          |
|-------|---------------------|
| 0     | <a href="#">No</a>  |
| 1     | <a href="#">Yes</a> |

**Definition:** This element refers to cases where a vehicle is a contact vehicle in the crash and does not stop to render aid (this can include drivers who flee the scene on foot).

**Remarks:** In many States, the investigating officer will note this in the narrative or check the appropriate box on the police crash report. In some cases, the driver can be cited for failing to render assistance. Review the case material carefully for references to hit-and-run or failure to render aid.

It does not matter whether the hit-and-run vehicle was striking or struck. The hit-and-run vehicle(s) is (are) the one(s) that “departed prior to investigation by the police,” or that vehicle that is “abandoned” at the scene when its occupant(s) fled from the area. If the police crash report indicates that the vehicle was involved in a collision that was investigated, but there is no information on that vehicle or the driver/owner because of departure prior to police arrival on-scene, then hit-and-run is indicated.

**0 (No)** is used if there is no reason to believe a hit-and-run occurred involving this vehicle or its driver. Example: If a vehicle is involved in a multi-vehicle collision and one of the other contact vehicles leaves the scene.

#### Examples include:

1. if occupants of a vehicle are taken or go directly from the scene to a medical treatment facility or physician. However, if doubt exists concerning the departure for treatment, assume hit-and-run.
2. a driver who leaves the scene but furnishes name, address, vehicle make, model, and model year such that it is recorded in the available information and the available information does not indicate hit-and-run.
3. vehicles that set an object in motion such that (a) the object is contacted before it stabilizes by another in-transport motor vehicle, and (b) the vehicle that set the object in motion leaves the scene without providing the pertinent information (compare with exception two above), and (c) the available information does not indicate hit-and-run.

**1 (Yes)** is used when it has been determined that this vehicle’s driver left the scene with or without their vehicle.



A hit-and-run occurred when this vehicle's driver left the scene after:

- striking a pedestrian or other type of non-motorist.
- striking a parked/stopped off roadway motor vehicle (with or without occupants).
- being struck while parked or in-transport.
- striking or being struck by an in-transport motor vehicle.

If HIT-AND-RUN is **1 (Yes)**, [Driver](#) and [Person Level \(MV Occupant\)](#) forms must be submitted for the driver and any known passengers of this vehicle involved in the crash regardless of the fact that it was a hit-and-run. When the presence of a hit-and-run vehicle is indicated and the available information does not provide the number of occupants, [NUMBER OF OCCUPANTS](#) must equal **99 (Unknown)**.

**Consistency Checks** [\(See Section 400\)](#):

| <b>Error ID</b> | <b>IF</b>                                                                                                                                            | <b>THEN</b>                                                                                                           |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| 622P            | HIT-AND-RUN equals 1,                                                                                                                                | it is unlikely that NUMBER OF OCCUPANTS equals 0-98.                                                                  |
| 8K0P            | VIOLATIONS CHARGED equals 07, 08,                                                                                                                    | HIT-AND-RUN must not equal 0.                                                                                         |
| BJ5P            | If UNIT TYPE equals 1 and HIT AND RUN equals 1,                                                                                                      | then DRIVER PRESENCE should not equal 0.                                                                              |
| U070            | UNLIKELY: More than one vehicle with HIT-AND-RUN equal to 1.                                                                                         | --                                                                                                                    |
| U340            | UNLIKELY: HIT-AND-RUN equals 0, and SEX equals 9.                                                                                                    | --                                                                                                                    |
| U360            | UNLIKELY: AGE equals 999 and HIT AND RUN is not equal to 1.                                                                                          | --                                                                                                                    |
| U450            | UNLIKELY: REGISTRATION STATE equals 91 if HIT AND RUN does not equal 1.                                                                              | --                                                                                                                    |
| U510            | UNLIKELY: VEHICLE MODEL YEAR equals 9998 if HIT AND RUN does not equal 1.                                                                            | --                                                                                                                    |
| U520            | UNLIKELY: RESTRAINT SYSTEM USE Subfield-1 Type of Restraint System in Use equals 98 <i>if not a Created Record and</i> HIT AND RUN does not equal 1. | --                                                                                                                    |
| U690            | UNLIKELY: UNIT TYPE equals 2-4 and HIT and RUN equals 1.                                                                                             | --                                                                                                                    |
| V860            | HIT-AND-RUN equals 0, and <b>vPIC BODY CLASS equals 011 (Truck) or FINAL STAGE BODY CLASS equals 011 (Truck)</b> ,                                   | VEHICLE CONFIGURATION should equal 01, 02, <b>or</b> 04, and CARGO BODY TYPE should equal 01-10, 12, <b>or</b> 96-98. |

| <b>Error ID</b> | <b>IF</b>                                                                                                       | <b>THEN</b>                                                                                                  |
|-----------------|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| V880            | <b><i>vPIC BODY CLASS equals 066 (Truck-Tractor), or FINAL STAGE BODY CLASS equals 066 (Truck-Tractor),</i></b> | VEHICLE CONFIGURATION should equal 05-08 <b>or</b> 19, and CARGO BODY TYPE should equal 01-04, 06-12, 96-98. |
| V881            | <b><i>HIT AND RUN equals 1,</i></b>                                                                             | <b><i>VEHICLE REMOVAL should not equal 8 or 9.</i></b>                                                       |
| VH87            | HIT-AND-RUN equals 0, and AREAS OF IMPACT-INITIAL CONTACT POINT equals 01-14,                                   | the corresponding code should be included in DAMAGED AREAS or DAMAGED AREAS should equal 15.                 |
| VP07            | <b><i>UNLIKELY: vPIC MAKE equals 99998 if HIT AND RUN does not equal 1.</i></b>                                 | --                                                                                                           |

**Consistency Checks (FARS Only) ([See Section 400](#)):**

| <b>Error ID</b> | <b>Error Message</b>                                                                                                         |
|-----------------|------------------------------------------------------------------------------------------------------------------------------|
| U410            | UNLIKELY: DRIVER'S LICENSE STATE equals 98 if HIT AND RUN does not equal 1.                                                  |
| U730            | UNLIKELY: HELMET USE Subfield 1-Helmet Use equals 98 <b><i>if not a created record and</i></b> HIT AND RUN does not equal 1. |

**Consistency Checks (CRSS Only) ([See Section 400](#)):**

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                 |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| U361            | <b><i>UNLIKELY: HIT-AND-RUN equals 1, and vPIC BODY CLASS is not equal to 069, 084, 086, 088, 097, 105, 113, 124, 126, 127, and VEHICLE LICENSE PLATE NUMBER is equal to 0s.</i></b> |

**V7 - Registration State (FARS ONLY)****FORMAT:** 2 numeric**SAS NAME:** Vehicle.REG\_STAT, Parkwork.PREG\_STAT**ELEMENT VALUES:**

| Codes | Attributes                     | Codes | Attributes                                             |
|-------|--------------------------------|-------|--------------------------------------------------------|
| 00    | <a href="#">Not Applicable</a> | 34    | New Jersey                                             |
| 01    | Alabama                        | 35    | New Mexico                                             |
| 02    | Alaska                         | 36    | New York                                               |
| 03    | American Samoa                 | 37    | North Carolina                                         |
| 04    | Arizona                        | 38    | North Dakota                                           |
| 05    | Arkansas                       | 39    | Ohio                                                   |
| 06    | California                     | 40    | Oklahoma                                               |
| 08    | Colorado                       | 41    | Oregon                                                 |
| 09    | Connecticut                    | 42    | Pennsylvania                                           |
| 10    | Delaware                       | 43    | Puerto Rico                                            |
| 11    | District of Columbia           | 44    | Rhode Island                                           |
| 12    | Florida                        | 45    | South Carolina                                         |
| 13    | Georgia                        | 46    | South Dakota                                           |
| 14    | Guam                           | 47    | Tennessee                                              |
| 15    | Hawaii                         | 48    | Texas                                                  |
| 16    | Idaho                          | 49    | Utah                                                   |
| 17    | Illinois                       | 50    | Vermont                                                |
| 18    | Indiana                        | 51    | Virginia                                               |
| 19    | Iowa                           | 52    | Virgin Islands                                         |
| 20    | Kansas                         | 53    | Washington                                             |
| 21    | Kentucky                       | 54    | West Virginia                                          |
| 22    | Louisiana                      | 55    | Wisconsin                                              |
| 23    | Maine                          | 56    | Wyoming                                                |
| 24    | Maryland                       | 91    | <a href="#">Not Reported</a>                           |
| 25    | Massachusetts                  | 92    | <a href="#">No Registration</a>                        |
| 26    | Michigan                       | 93    | <a href="#">Multiple State Registration</a>            |
| 27    | Minnesota                      | 94    | <a href="#">US Government Tags</a> (includes military) |
| 28    | Mississippi                    | 95    | Canada                                                 |
| 29    | Missouri                       | 96    | Mexico                                                 |
| 30    | Montana                        | 97    | Other Foreign Country*                                 |
| 31    | Nebraska                       | 98    | <a href="#">Other Registration</a>                     |
| 32    | Nevada                         | 99    | <a href="#">Reported as Unknown</a>                    |
| 33    | New Hampshire                  |       |                                                        |

\*This value is an unlikely occurrence and will raise an error flag.

**Definition:** This element identifies the State in which this vehicle was registered.

**Remarks:** For a vehicle with an expired registration, code the State where the vehicle was registered at the time of expiration.

**91 (Not Reported)** *Check to see if [92 \(No Registration\)](#), [00 \(Not Applicable\)](#), or [99 \(Reported as Unknown\)](#) are more appropriate for the situation.*

If a State's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**."

Code **91 (Not Reported)** in these two situations:

1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

For combination vehicles, use the registration State of the power unit only.

**00 (Not Applicable)** is used for vehicles that are not required to be registered. This is State-specific based on State vehicle registration requirements.

Use State codes for all State-registered vehicles, including State government vehicles. However, if your State does not register government-owned vehicles, use **00 (Not Applicable)**.

**92 (No Registration)** applies to vehicles that are required by State law to be registered and are NOT registered.

**93 (Multiple State Registration)** is used for commercial vehicles that are registered in more than one State under a valid reciprocal agreement (such as the International Registration Plan (IRP)).

**94 (US Government Tags)** is used to indicate the license was issued by the U.S. Government, such as military or State Department Foreign Service.

If a police crash report data element is coded with the attribute "Other" but the officer does not specify what this refers to:

1. Code [98 \(Other Registration\)](#) if the police crash report attribute choices can be matched to or include all the attributes in FARS/CRSS.
2. Code [91 \(Not Reported\)](#) if the police crash report choices cannot be matched to or include all the attributes in FARS/CRSS.

**98 (Other Registration)** is used for other registrations that are not identified by their own attribute (e.g., Native American Indian Nations, Other U.S. Territories, or U.S. owned outlying areas such as Northern Marianas Islands, Wake Islands, etc.).

**99 (Reported as Unknown)** is used when the registration information for a vehicle cannot be identified. Example unidentified hit-and-run vehicle’s registration reported as “Unknown” by police.

**Consistency Checks [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                               | <b>THEN</b>                             |
|-----------------|-----------------------------------------|-----------------------------------------|
| 9K0P            | HM2 equals 2,                           | REGISTRATION STATE must not equal 00.   |
| U040            | UNLIKELY: REGISTRATION STATE equals 97. | --                                      |
| V060            | SPECIAL USE equals 04,                  | REGISTRATION STATE should equal 94.     |
| V070            | HM1 equals 2,                           | REGISTRATION STATE should not equal 92. |

**Consistency Checks (FARS Only) [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                                                                    | <b>THEN</b>                                                                      |
|-----------------|------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| 6G0P            | RELATED FACTORS-VEHICLE LEVEL equals 032,                                    | REGISTRATION STATE must not equal 00, 92.                                        |
| AQ0P            | REGISTRATION STATE equals 00, 92,                                            | REGISTERED VEHICLE OWNER must equal 0, 5, 6.                                     |
| AV0P            | REGISTERED VEHICLE OWNER equals 3, 4,                                        | REGISTRATION STATE must not equal 99.                                            |
| D330            | DRIVER PRESENCE equals 0, and REGISTRATION STATE is not equal to 00, 92, 99, | REGISTERED VEHICLE OWNER should equal 3-6.                                       |
| U450            | UNLIKELY: REGISTRATION STATE equals 91 if HIT AND RUN does not equal 1.      | --                                                                               |
| <b>U770</b>     | <b>UNLIKELY: REGISTRATION STATE equals 98.</b>                               | --                                                                               |
| V550            | REGISTRATION STATE equals 93, 94,                                            | REGISTERED VEHICLE OWNER should equal 3, 4.                                      |
| V560            | SPECIAL USE equals 04,                                                       | REGISTERED VEHICLE OWNER should equal 3, and REGISTRATION STATE should equal 94. |
| V592            | RELATED FACTORS-VEHICLE LEVEL equals 037,                                    | REGISTRATION STATE should not equal 00, 92.                                      |
| V600            | REGISTERED VEHICLE OWNER equals 9,                                           | REGISTRATION STATE should equal 99.                                              |
| V630            | REGISTRATION STATE equals 00, 92,                                            | REGISTERED VEHICLE OWNER should NOT equal 5.                                     |

| <b>Error ID</b> | <b>IF</b>                             | <b>THEN</b>                                    |
|-----------------|---------------------------------------|------------------------------------------------|
| V670            | REGISTERED VEHICLE OWNER equals 1, 2, | REGISTRATION STATE should NOT equal 99.        |
| V960            | REGISTRATION STATE equals 99,         | REGISTERED VEHICLE OWNER should equal 5, 6, 9. |

## V8 - Registered Vehicle Owner - FARS Only

**FORMAT:** 1 numeric

**SAS Name:** Vehicle.OWNER, Parkwork.POWNER

### ELEMENT VALUES:

| Codes | Attributes                                                                                  |
|-------|---------------------------------------------------------------------------------------------|
| 0     | <a href="#">Not Applicable, Vehicle Not Registered</a>                                      |
| 1     | Driver (in this crash) Was Registered Owner                                                 |
| 2     | <a href="#">Driver (in this crash) Not Registered Owner (other private owner listed)</a>    |
| 3     | <a href="#">Vehicle Registered as <b>Commercial</b>/Business/Company/Government Vehicle</a> |
| 4     | <a href="#">Vehicle Registered as Rental Vehicle</a>                                        |
| 5     | <a href="#">Vehicle Was Stolen (reported by police)</a>                                     |
| 6     | <a href="#">Driverless/Motor Vehicle Parked/Stopped Off Roadway</a>                         |
| 9     | <a href="#">Unknown</a>                                                                     |

**Definition:** This element is used to determine the type of registered owner of the vehicle.

**Remarks:** The type of ownership, “loan vs. lease,” does not change the coding. An individual or company should be the Registered Vehicle Owner, regardless of the bank holding the loan or lease. Banks and leasing companies should be the Registered Vehicle Owner for their own fleets only. *In instances when both an individual and a Commercial/Business/Company/Government are listed as the REGISTERED VEHICLE OWNER, use code [3 \(Vehicle Registered as Commercial/Business/Company/Government Vehicle\)](#). For example, the driver in a crash owns a truck tractor and uses it in his trucking business.*

*In the case of a conflict between the two, Vehicle Registration data takes precedence over police reported information. If you are unable to access the vehicle registration data, use what is on the police report.*

**0 (Not Applicable, Vehicle Not Registered)** applies to vehicles that are not registered, both not required to be registered (state specific based on State vehicle registration requirements) and illegally not registered. (See [5 \(Vehicle Was Stolen \[reported by police\]\)](#) for stolen vehicles.) For plated Business/Company/Government Vehicles that are exempt from normal registration see [3 \(Vehicle Registered as Commercial/Business/ Company/ Government Vehicle\)](#).

**2 (Driver (in this crash) Not Registered Owner [other private owner listed])** is used for private owners other than the driver. Also, this includes when the driver is a spouse of the owner but is not a co-owner.

**3 (Vehicle Registered as Commercial/Business/Company/Government Vehicle)** is used for vehicles that are registered in a **Commercial**, Business, or Company name, or as a local, county, State, or Federal Government Vehicle. Use this attribute even if the Government vehicle is exempt from normal registration. Example: city owned police cruisers.

**4 (Vehicle Registered as Rental Vehicle)** applies for rental vehicles, such as: Hertz, Ryder trucks, etc.

**5 (Vehicle Was Stolen [reported by police])** takes precedence over codes “0, 2, 3, 4, 6,” when multiple conditions exist.

**6 (Driverless/Motor Vehicle Parked/Stopped Off Roadway)** is used for both in-transport and not in-transport motor vehicles. This attribute should always be used if [UNIT TYPE](#) is coded as “2” or “3,” even if other applicable conditions exist. This attribute is also used to indicate that this is a “driverless” motor vehicle in-transport (e.g., driverless vehicle stopped in a travel lane). If indicating this is a “driverless” motor vehicle in-transport, this attribute does not take precedence over codes “0, 3, 4, 5,” when multiple conditions exist.

**9 (Unknown)** is used when information on the registered owner is unknown or unclear; and in certain cases when the driver cannot be determined, but the registered owner is known.

**Consistency Checks ([See Section 400](#)):**

| <b>Error ID</b> | <b>IF</b>                                                                    | <b>THEN</b>                                                                      |
|-----------------|------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| 1D0R            | SPECIAL USE equals 23,                                                       | REGISTERED VEHICLE OWNER should equal 4.                                         |
| 1D0S            | SPECIAL USE equals 10, 11, 12, 21, 22, or 24,                                | REGISTERED VEHICLE OWNER should equal 3.                                         |
| <b>1D0T</b>     | <b>SPECIAL USE equals 19,</b>                                                | <b>REGISTERED VEHICLE OWNER must not equal 1.</b>                                |
| 9A2P            | UNIT TYPE equals 2, 3,                                                       | REGISTERED VEHICLE OWNER must equal 6.                                           |
| AQ0P            | REGISTRATION STATE equals 00, 92,                                            | REGISTERED VEHICLE OWNER must equal 0, 5, 6.                                     |
| AR0P            | SPECIAL USE equals 04,                                                       | REGISTERED VEHICLE OWNER must not equal 0, 1, 2, 4.                              |
| AS0P)           | RELATED FACTORS-VEHICLE LEVEL equals 032,                                    | REGISTERED VEHICLE OWNER must not equal 0.                                       |
| AV0P            | REGISTERED VEHICLE OWNER equals 3, 4,                                        | REGISTRATION STATE must not equal 99.                                            |
| CB0P            | REGISTERED VEHICLE OWNER equals 6,                                           | DRIVER PRESENCE must equal 0.                                                    |
| D330            | DRIVER PRESENCE equals 0, and REGISTRATION STATE is not equal to 00, 92, 99, | REGISTERED VEHICLE OWNER should equal 3-6.                                       |
| V550            | REGISTRATION STATE equals 93, 94,                                            | REGISTERED VEHICLE OWNER should equal 3, 4.                                      |
| V560            | SPECIAL USE equals 04,                                                       | REGISTERED VEHICLE OWNER should equal 3, and REGISTRATION STATE should equal 94. |



| <b>Error ID</b> | <b>IF</b>                                 | <b>THEN</b>                                           |
|-----------------|-------------------------------------------|-------------------------------------------------------|
| V570            | HM1 equals 2,                             | REGISTERED VEHICLE OWNER should not equal 0, 1, 2, 4. |
| V580            | HM1 equals 2,                             | REGISTERED VEHICLE OWNER should equal 3.              |
| V590            | RELATED FACTORS-VEHICLE LEVEL equals 032, | REGISTERED VEHICLE OWNER should equal 1-3.            |
| V593            | RELATED FACTORS-VEHICLE LEVEL equals 037, | REGISTERED VEHICLE OWNER should not equal 0.          |
| V600            | REGISTERED VEHICLE OWNER equals 9,        | REGISTRATION STATE should equal 99.                   |
| V630            | REGISTRATION STATE equals 00, 92,         | REGISTERED VEHICLE OWNER should NOT equal 5.          |
| V670            | REGISTERED VEHICLE OWNER equals 1, 2,     | REGISTRATION STATE should NOT equal 99.               |
| V960            | REGISTRATION STATE equals 99,             | REGISTERED VEHICLE OWNER should equal 5, 6, 9.        |
| VH25            | UNIT TYPE equals 4,                       | REGISTERED VEHICLE OWNER should not equal 6, 9.       |

## **vPIC Make/vPIC Model /vPIC Body Class Overview**

*Prior to 2020, VEHICLE MAKE, VEHICLE MODEL, AND BODY TYPE were coded based on the Vehicle Make/Model/Body Type table in this manual. This table will no longer be updated starting in the data collection year 2020.*

*VEHICLE MAKE, VEHICLE MODEL, and BODY TYPE have been renamed as follows:*

- *VEHICLE MAKE is now [NCSA MAKE](#)*
- *VEHICLE MODEL is now [NCSA MODEL](#)*
- *BODY TYPE is now [NCSA BODY TYPE](#)*

*Starting from 2020 data collection year, NHTSA has added a new set of data elements based on VIN decoding using NHTSA's tool, Product Information Catalog and Vehicle Listing (vPIC). These new data elements are:*

- *[VPIC MAKE](#): populated with vPIC data, derived from the VIN decoding.*
- *[VPIC MODEL](#): populated with vPIC data, derived from the VIN decoding.*
- *[VPIC BODY CLASS](#): populated with vPIC data, derived from the VIN decoding.*
- *[FINAL STAGE BODY CLASS](#): this data element will be captured only for vehicles that are "incomplete." These vehicles are completed after the VIN has been assigned. For these types of vehicles, NHTSA would like to capture the final (i.e., completed) vehicle body class. This data element should be filled based on the body class indicated on the police crash report or vehicle registration. Please note that this is not populated based on vPIC data.*
- *[POWER UNIT GVWR](#): populated with vPIC data, derived from the VIN decoding when available.*
- *[TRAILER GVWR](#): populated with vPIC data, derived from the VIN decoding when available. This element only captures the GVWR for the trailing unit of a combination vehicle.*

*The following data element has been removed:*

- *GVWR/GCWR: NHTSA decided to remove this element because GVWR and GCWR are two different specifications of a vehicle. Storing two values into one data element can cause confusion. Therefore, starting data collection year 2020, this element is removed. The GVWR for powering unit is stored in the new data element [POWER UNIT GVWR](#).*

*Users are required to decode the [VIN](#) first. The data elements [vPIC MAKE](#), [vPIC MODEL](#), [vPIC BODY CLASS](#), [POWER UNIT GVWR](#), [NCSA MAKE](#), [NCSA MODEL](#), and [NCSA BODY TYPE](#) are automatically populated with the decoded data if there is a VIN and the VIN decodes without any error.*

*If the [VIN](#) decodes with errors or the VIN is not available/applicable, the data elements [vPIC MAKE](#), [vPIC MODEL](#), [vPIC BODY CLASS](#), [POWER UNIT GVWR](#), [NCSA MAKE](#), [NCSA MODEL](#), and [NCSA BODY TYPE](#) may need to be manually filled based on the information from the PCR (FARS and CRSS) and vehicle registration (FARS only).*

**Reconstructed/Altered Vehicles:** In case of “homemade” vehicles *made* from drastically mixed parts, there may be no clear MAKE or MODEL. In addition, the State may issue an Identification Number in place of the Standard [VIN](#). In such cases, code *the* [vPIC MAKE](#), [vPIC MODEL](#), [NCSA MAKE](#), [NCSA MODEL](#), and [VEHICLE MODEL YEAR](#) as “9s” (*Unknown*). Code *the* [vPIC BODY CLASS](#) and [NCSA BODY TYPE](#) as appropriate. Be sure to use [RELATED FACTORS-VEHICLE LEVEL](#) code [035 \(Reconstructed/Altered Vehicle\)](#).

In reconstructed/altered vehicles where the modifications are less drastic and you can determine the *VIN*, *decode the VIN*. *If the VIN decodes cleanly, use the VIN decode information to code vPIC MAKE, vPIC MODEL, NCSA MAKE, NCSA MODEL, vPIC BODY CLASS, and NCSA BODY TYPE. In this situation, there might be a discrepancy between the decoded information and the information on the PCR. If the VIN is not available or does not decode cleanly, but the Make and Model can be determined, code these elements appropriately. Be sure to use the RELATED FACTORS-VEHICLE LEVEL code for 035 (Reconstructed/Altered Vehicle).*

If any detail is known regarding the vehicle’s Make/Model/Body/*Model* Year, code what is known and then code the other elements as unknown. For example, *if* you know it’s a Ford 4-door passenger car but the specific model and year are not reported, *please do the following:*

- [vPIC MAKE](#): choose “Ford” from the dropdown list;
- [NCSA MAKE](#): this field will be automatically mapped to 12 (Ford);
- [vPIC MODEL](#): choose “Unknown” from the dropdown list;
- [NCSA MODEL](#): choose 399 (Unknown (Automobile));
- [vPIC BODY CLASS](#): choose “Sedan;”
- [NCSA BODY TYPE](#): choose 04 (4-Door Sedan, Hard Top);
- [VEHICLE MODEL YEAR](#): choose 9999 (Unknown)

Code **Not Reported** only when [vPIC MAKE](#), [vPIC MODEL](#), [vPIC BODY CLASS](#), [NCSA MAKE](#), [NCSA MODEL](#), [NCSA BODY TYPE](#), and [VEHICLE MODEL YEAR](#) are all **Not Reported**.

### **Not Reported**

If a State’s crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered “Not Reported.”

Code **Not Reported** in these situations:

1. No field or coding block exists on the State’s crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State’s crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State’s crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

## V9 - Vehicle Identification Number

**FORMAT:** 17 alphanumeric

**SAS NAME:** Vehicle.VIN, Parkwork.PVIN

### ELEMENT VALUES:

| Codes              | Attributes                                                |
|--------------------|-----------------------------------------------------------|
| 000000000000000000 | <a href="#">No VIN Required</a>                           |
| --                 | Any Alphanumeric Characters - Actual VIN number           |
| 888888888888888888 | <a href="#">Not Reported</a>                              |
| 999999999999999999 | <a href="#">Reported as Unknown</a>                       |
| *                  | <a href="#">VIN Character Missing or Not Decipherable</a> |

**Definition:** This element records the Vehicle Identification Number (VIN) or alphanumeric identifier in the case material of a single vehicle or the power unit of a combination vehicle.

**Remarks:** SEE ADDITIONAL REMARKS UNDER [vPIC MAKE / vPIC MODEL / vPIC BODY CLASS OVERVIEW](#).

Code the complete VIN of the single vehicle or the power unit of a combination vehicle. The VIN is always left-justified. Trailer VINs are not coded in this element. See [TRAILER VEHICLE IDENTIFICATION NUMBER](#) to record the VIN on any trailer. If the VIN for the power unit of a combination vehicle is not available, code [8s \(Not Reported\)](#) for this element, rather than the trailer VIN.

The Vehicle Identification Number (VIN) standards are described in [49 CFR Part 565](#). This standard requires that each VIN have 17 characters, not contain the letter “I,” “O,” or “Q,” and pass a mathematical test (check digit). This data element may also be used to record non-standard VINs. See instruction under [\\* \(VIN Character Missing or Not Decipherable\)](#) for missing or illegible characters.

For a 17-character VIN that produces check digit errors, first attempt to resolve the error. If it cannot be resolved, record the VIN as provided and override any edit checks with explanation. See instruction under [\\* \(VIN Character Missing or Not Decipherable\)](#) for missing or illegible characters.

Only enter [8s \(Not Reported\)](#) or [9s \(Reported as Unknown\)](#) when the **entire** VIN is missing or unknown.

Enter all **0s (No VIN Required)** if the vehicle is not required to have a VIN as per [49 CFR Part 565](#) (e.g., ATVs, off-road motorcycles, farm tractors, go-carts) AND there is no VIN data available. If VIN data is available enter the VIN as provided in the case material.

**NOTE** for pre-1981 vehicles:

If the vehicle is manufactured by the Ford Motor Company and the VIN begins or ends with a script “f,” the script “f” is not entered. Proceed to the next character, as in the example below.

**Example:**

VIN: f3U62S100932f  
ENTER: 3U62S100932

In addition, if any hyphens or periods are contained in the string of alphanumeric characters, ignore them as in the example below.

**Example:**

VIN: S M - E . 3 0 7 6 4 2 1  
ENTER: S M E 3 0 7 6 4 2 1

**8s (Not Reported)** Check to see if 0s (No VIN Required) or 9s (Reported as Unknown) are more appropriate for the situation.

If a State's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**."

Code **8s (Not Reported)** in these three situations:

1. no field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material), or
2. a field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material), or
3. information on the police crash report has been sanitized/redacted and no other information is available in the case material.

**9s (Reported as Unknown)** is used when the entire power unit VIN is reported as Unknown with no information available.

**\* (VIN Character Missing or Not Decipherable)** is used for any VIN character(s) that is (are) missing or not decipherable and the correct character(s) cannot be identified to resolve the VIN for the specific position(s).

**Notes regarding VINs with less than 17 digits:**

- Some vehicles (e.g., custom, pre-1981, imported, or rebuilt vehicles) may have been assigned identification numbers that are less than 17 digits. These should be entered as reported. Do not fill the remaining positions with asterisks "\*." **For example, 1102112486.**
- If a VIN is reported as less than 17 digits for a vehicle that would normally have 17 digits, and all characters are legible, fill with asterisks "\*" at the end for the missing character(s). **For example, JM2UF1114G0\*\*\*\*\*.**

**FARS SPECIAL INSTRUCTION:**

If the State will not allow transmittal of a complete standard VIN, *such as the State only allows transmitting the left-most 13 digits*, code the right-most four characters with asterisks "\*". *In the*

*case of errors, character omissions, or inconsistencies between the decoded values and the crash report Make/Model/Body Type, the vehicle registration file must be used to verify the VIN.*

*If the information from a cleanly decoded VIN (VIN decodes with no error) and the police crash report are inconsistent, try to resolve the conflict using other information in the case material including the vehicle registration. For example, if the VINs are accidentally switched between the vehicles by the police officer on the PCR, try to re-order the VINs to see if the conflict is resolved. If the conflict cannot be resolved, submit a VIN request to confirm the accuracy of the VIN decode information. If the VIN accuracy is confirmed and the conflict cannot be resolved, VIN decode results take precedence over PCR.*

#### **CRSS SPECIAL INSTRUCTION:**

If the information from a *cleanly* decoded VIN (VIN decodes with no error) and the police crash report are inconsistent, *try to resolve the conflict using other information in the case material. For example, if the VINs are accidentally switched between the vehicles by the police officer on the PCR, try to re-order the VINs to see if the conflict is resolved. If the conflict cannot be resolved, submit a VIN request to confirm the accuracy of the VIN decode information. If the VIN accuracy is confirmed and the conflict cannot be resolved, VIN decode results take precedence over PCR.*

*If there is no VIN and the information about Make and Model on the police crash report is inconsistent, Model takes precedence over the Make.*

#### **Consistency Checks [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                    | <b>THEN</b>                                                                                                                                                                                                                                                                                                                    |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 900P            | VEHICLE IDENTIFICATION NUMBER (VIN) does not equal 0s, 8s, or 9s and VEHICLE MODEL YEAR is a valid year and greater than or equal to 1980 and VEHICLE MODEL YEAR equals____, | the 10th digit of the valid VEHICLE IDENTIFICATION NUMBER (VIN) should equal ____ (contact NHTSA Headquarters for VIN Assistance).                                                                                                                                                                                             |
| 902P            | VEHICLE MODEL YEAR > 1980, VEHICLE MODEL YEAR is not equal to 9998 or 9999, and VEHICLE IDENTIFICATION NUMBER is not equal to all 0s, 8s, or 9s;                             | VEHICLE IDENTIFICATION NUMBER positions 1-8, 11-14 should equal A-H, J-N, P, R-Z, 0-9, or *; VEHICLE IDENTIFICATION NUMBER position 9 should equal 0-9, X, or *; VEHICLE IDENTIFICATION NUMBER position 10 should equal A-H, J-N, P, R-T, V-Y, 1-9, or *; VEHICLE IDENTIFICATION NUMBER positions 15-17 should equal 0-9 or *. |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                    | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 903P            | VEHICLE MODEL YEAR > 1980, VEHICLE MODEL YEAR is not equal to 9998 or 9999, and VEHICLE IDENTIFICATION NUMBER is not equal to all 0s, 8s, or 9s,                                                                                                                                                             | VEHICLE IDENTIFICATION NUMBER positions 1-8, 11 should equal A-H, J-N, P, R-Z, or 0-9; VEHICLE IDENTIFICATION NUMBER position 9 should equal 0-9, or X; VEHICLE IDENTIFICATION NUMBER position 10 should equal A-H, J-N, P, R-T, V-Y, or 1-9; VEHICLE IDENTIFICATION NUMBER positions 12-14 should equal A-H, J-N, P, R-Z, 0-9, or *; VEHICLE IDENTIFICATION NUMBER positions 15-17 should equal 0-9 or *. |
| 907P            | VEHICLE IDENTIFICATION NUMBER (VIN) does not equal 0s, 8s, or 9s,                                                                                                                                                                                                                                            | vPIC Body Class must not equal "Trailer" or "Incomplete - Trailer Chassis."                                                                                                                                                                                                                                                                                                                                |
| <b>909P</b>     | <b>STATE or PSU_STATE is equal to GA, and any VEHICLE IDENTIFICATION NUMBER (VIN) does not equal 0s, 8s, or 9s,</b>                                                                                                                                                                                          | <b>VEHICLE IDENTIFICATION NUMBER (VIN) should be unique within a crash.</b>                                                                                                                                                                                                                                                                                                                                |
| U490            | UNLIKELY: <b>POWER UNIT GVWR_from and GVWR_to</b> equals <b>98</b> or <b>99</b> and VEHICLE MODEL YEAR is greater than 1980 and not equal to 9998 or 9999, and VIN is not equal to 0000000000000000, 8888888888888888, or 9999999999999999, and VIN passes the check digit check (i.e., VIN is a Valid VIN). | --                                                                                                                                                                                                                                                                                                                                                                                                         |
| V011            | VEHICLE MODEL YEAR is less than 1950,                                                                                                                                                                                                                                                                        | VEHICLE IDENTIFICATION NUMBER must equal 0s.                                                                                                                                                                                                                                                                                                                                                               |
| V300            | Possible error in VIN Production Number.                                                                                                                                                                                                                                                                     | --                                                                                                                                                                                                                                                                                                                                                                                                         |
| V62P            | <b>VEHICLE TRAILING equals 0 and</b> CARGO BODY TYPE equals 01- <b>08</b> , 97, 98, and VEHICLE IDENTIFICATION NUMBER does not equal 8s or 9s,                                                                                                                                                               | <b>POWER UNIT GVWR_from and GVWR_to</b> must equal <b>13, 14, 15, 16, 17, or 18.</b>                                                                                                                                                                                                                                                                                                                       |
| <b>VP01</b>     | <b>VEHICLE IDENTIFICATION NUMBER is not equal to 0000000000000000, 8888888888888888, or 9999999999999999,</b>                                                                                                                                                                                                | <b>vPIC BODY CLASS must not equal 61 (Trailer) or 116 (Incomplete Trailer Chassis).</b>                                                                                                                                                                                                                                                                                                                    |
| <b>VP02</b>     | <b>VEHICLE IDENTIFICATION NUMBER is not equal to 0000000000000000, 8888888888888888, or 9999999999999999</b>                                                                                                                                                                                                 | <b>vPIC MAKE must not equal to a Trailer Make.</b>                                                                                                                                                                                                                                                                                                                                                         |
| <b>VP03</b>     | <b>VEHICLE IDENTIFICATION NUMBER decodes with error code only in (1, 400),</b>                                                                                                                                                                                                                               | <b>vPIC MAKE, vPIC MODEL, vPIC BODY CLASS, NCSA MAKE, NCSA MODEL, and NCSA BODY TYPE must equal the corresponding decoded data values.</b>                                                                                                                                                                                                                                                                 |

**Consistency Checks (CRSS Only) ([See Section 400](#)):**

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                               | <b>THEN</b>                                                                                                                                                  |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| V271            | MODEL YEAR is greater than 1980 and PSU_STATE is equal to GA,                                                                                                                                           | the first 11 characters of VEHICLE IDENTIFICATION NUMBER should be alphanumeric (A-Z, a-z, 0-9), and no characters should equal I, O, or Q.                  |
| V272            | MODEL YEAR is greater than 1980 and PSU_STATE is not equal to GA <b>or</b> MN,                                                                                                                          | the VEHICLE IDENTIFICATION NUMBER should be 17 characters, all characters should be alphanumeric (A-Z, a-z, 0-9), and no characters should equal I, O, or Q. |
| V281            | MODEL YEAR is greater than 1980 and VEHICLE IDENTIFICATION NUMBER is 17 characters and PSU_STATE is not equal to GA, all characters are alphanumeric (A-Z, a-z, 0-9), and no characters are I, O, or Q, | the VEHICLE IDENTIFICATION NUMBER should pass check digit calculation.                                                                                       |

**Consistency Checks (FARS Only) ([See Section 400](#)):**

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                              | <b>THEN</b>                                                                                                                        |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| V270            | MODEL YEAR is greater than 1980,                                                                                                                                       | the VIN should be 17 characters, all characters should be alphanumeric (A-Z, a-z, 0-9), and no characters should equal I, O, or Q. |
| V280            | MODEL YEAR is greater than 1980 and VEHICLE IDENTIFICATION NUMBER is 17 characters, all characters are alphanumeric (A-Z, a-z, 0-9), and no characters are I, O, or Q, | the VIN should pass check digit calculation.                                                                                       |



## V10 - Vehicle Model Year

**FORMAT:** 4 numeric

**SAS NAME:** Vehicle.MOD\_YEAR, Person.MOD\_YEAR, Parkwork.PMODYEAR

### ELEMENT VALUES:

| Codes | Attributes                   |
|-------|------------------------------|
| ----  | Actual Four Digit Model Year |
| 9998  | <a href="#">Not Reported</a> |
| 9999  | <a href="#">Unknown</a>      |

**Definition:** This element identifies the manufacturer's model year of this vehicle.

**Remarks:** SEE ADDITIONAL REMARKS UNDER [vPIC MAKE / vPIC MODEL / vPIC BODY CLASS OVERVIEW](#).

### 9998 (Not Reported)

If a State's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**."

Code **9998 (Not Reported)** in these two situations:

1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

***Code all four digits of the model year for which the vehicle was manufactured as shown on the PCR. For an example, if a vehicle model year is shown on the PCR as "85," Model Year field should be coded as "1985."***

**Consistency Checks** [\(See Section 400\)](#):

| Error ID | IF                                                   | THEN                                                                 |
|----------|------------------------------------------------------|----------------------------------------------------------------------|
| 1C0P     | the VEHICLE MODEL YEAR is not equal to 9998 or 9999, | the VEHICLE MODEL YEAR must not be greater than CRASH YEAR plus ONE. |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>THEN</b>                                                                                   |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| 1C1P            | <p><b>[[VEHICLE MODEL YEAR is greater than or equal to 2000 and vPIC BODY CLASS does not equal 004 (Low Speed Vehicle (LSV) / Neighborhood Electric Vehicle (NEV)), 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring / Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-Road Vehicle - Dirt Bike / Off-Road), 085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small / Minibike), 088 (Off-road Vehicle - Go Kart), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 097 (Off-road Vehicle - Snowmobile), 098 (Motorcycle - Street), 100 (Motorcycle - Enclosed Three Wheeled / Enclosed Autocycle), 103 (Motorcycle - Unenclosed Three Wheeled / Open Autocycle), 104 (Motorcycle - Moped), 105 (Off-road Vehicle - Recreational Off-Road Vehicle (ROV)), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 124 (Off-road Vehicle - Golf Cart), 125 (Motorcycle - Unknown Body Type), 126 (Off-road Vehicle - Farm Equipment), 127 (Off-road Vehicle - Construction Equipment), 996 (Motorized Bicycle), or 997 (Other)], or [vPIC BODY CLASS equals 006 (Motorcycle - Standard), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 109 (Motorcycle - Cross Country), or 125 (Motorcycle - Unknown Body Type), and VEHICLE MODEL YEAR is greater than 2020]], and STATE NUMBER does not equal 8 (CO), 17 (IL), 23 (ME), 26 (MI), or 28 (MS),</b></p> | <p><b>MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S) Subfield 1 should not equal 00 or 99.</b></p> |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                             | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 900P            | VEHICLE IDENTIFICATION NUMBER (VIN) does not equal 0s, 8s, or 9s and VEHICLE MODEL YEAR is a valid year and greater than or equal to 1980 and VEHICLE MODEL YEAR equals _____,                                                                                        | the 10th digit of the valid VEHICLE IDENTIFICATION NUMBER (VIN) should equal _____ (contact NHTSA Headquarters for VIN Assistance).                                                                                                                                                                                                                                                                        |
| 902P            | VEHICLE MODEL YEAR > 1980, VEHICLE MODEL YEAR is not equal to 9998 or 9999, and VEHICLE IDENTIFICATION NUMBER is not equal to all 0s, 8s, or 9s;                                                                                                                      | VEHICLE IDENTIFICATION NUMBER positions 1-8, 11-14 should equal A-H, J-N, P, R-Z, 0-9, or *; VEHICLE IDENTIFICATION NUMBER position 9 should equal 0-9, X, or *; VEHICLE IDENTIFICATION NUMBER position 10 should equal A-H, J-N, P, R-T, V-Y, 1-9, or *; VEHICLE IDENTIFICATION NUMBER positions 15-17 should equal 0-9 or *.                                                                             |
| 903P            | VEHICLE MODEL YEAR > 1980, VEHICLE MODEL YEAR is not equal to 9998 or 9999, and VEHICLE IDENTIFICATION NUMBER is not equal to all 0s, 8s, or 9s,                                                                                                                      | VEHICLE IDENTIFICATION NUMBER positions 1-8, 11 should equal A-H, J-N, P, R-Z, or 0-9; VEHICLE IDENTIFICATION NUMBER position 9 should equal 0-9, or X; VEHICLE IDENTIFICATION NUMBER position 10 should equal A-H, J-N, P, R-T, V-Y, or 1-9; VEHICLE IDENTIFICATION NUMBER positions 12-14 should equal A-H, J-N, P, R-Z, 0-9, or *; VEHICLE IDENTIFICATION NUMBER positions 15-17 should equal 0-9 or *. |
| 920P            | any one of the fields <b>NCSA MAKE</b> , <b>NCSA MODEL</b> , <b>NCSA BODY TYPE</b> , and <b>VEHICLE MODEL YEAR</b> , equals Not Reported [ <b>NCSA MAKE</b> (97), <b>NCSA MODEL</b> (997), <b>NCSA BODY TYPE</b> (98), and <b>VEHICLE MODEL YEAR</b> (9998)],         | the other three must also equal Not Reported.                                                                                                                                                                                                                                                                                                                                                              |
| 921P            | <b>NCSA MAKE</b> is not 97, 98, 99, and equals ____, and <b>NCSA MODEL</b> equals ____,                                                                                                                                                                               | <b>VEHICLE MODEL YEAR</b> must equal ____, or CRASH YEAR plus 1.                                                                                                                                                                                                                                                                                                                                           |
| 930P            | any one of the fields <b>NCSA MAKE</b> , <b>NCSA MODEL</b> , <b>NCSA BODY TYPE</b> , and <b>VEHICLE MODEL YEAR</b> , does not equal Not Reported [ <b>NCSA MAKE</b> (97), <b>NCSA MODEL</b> (997), <b>NCSA BODY TYPE</b> (98), and <b>VEHICLE MODEL YEAR</b> (9998)], | the other three must also not be coded as Not Reported.                                                                                                                                                                                                                                                                                                                                                    |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>THEN</b>                                                                                                                                           |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| P290            | AIR BAG DEPLOYED equals 01-03, 07-09, and <b>vPIC BODY CLASS equals 001 (Convertible/Cabriolet), 002 (Minivan), 003 (Coupe), 005 (Hatchback/Liftback/Notchback), 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 008 (Crossover Utility Vehicle (CUV)), 009 (Van), 010 (Roadster), 011 (Truck), 013 (Sedan/Saloon), 015 (Wagon), 060 (Pickup), 117 (Limousine), 119 (Sport Utility Truck (SUT)), or FINAL STAGE BODY CLASS equals 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 008 (Crossover Utility Vehicle (CUV)), 009 (Van), 011 (Truck), 015 (Wagon), 060 (Pickup), 117 (Limousine), or 119 (Sport Utility Truck (SUT))</b> , and VEHICLE MODEL YEAR equals 1998 or newer, | SEATING POSITION should equal 11, 13, 21, 23, 31, or 33.                                                                                              |
| U490            | UNLIKELY: <b>POWER UNIT GVWR_from and GVWR_to</b> equals <b>98</b> or <b>99</b> and VEHICLE MODEL YEAR is greater than 1980 and not equal to 9998 or 9999, and VIN is not equal to 000000000000000000, 888888888888888888, or 999999999999999999, and VIN passes the check digit check (i.e., VIN is a Valid VIN).                                                                                                                                                                                                                                                                                                                                                                                               | --                                                                                                                                                    |
| U510            | UNLIKELY: VEHICLE MODEL YEAR equals 9998 if HIT AND RUN does not equal 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | --                                                                                                                                                    |
| U710            | UNLIKELY: MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S)-Subfield 1 equals 01 and VEHICLE MODEL YEAR is between 2000 and 2012.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | --                                                                                                                                                    |
| V010            | MODEL YEAR should not be less than 1940.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | --                                                                                                                                                    |
| V011            | VEHICLE MODEL YEAR is less than 1950,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | VEHICLE IDENTIFICATION NUMBER must equal 0s.                                                                                                          |
| V620            | CRASH MONTH is between January and March,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | the VEHICLE MODEL YEAR should NOT be greater than the CRASH YEAR unless it equals 9998 or 9999 (contact Coding Assistance through the CDAN Helpdesk). |
| V922            | <b>NCSA MAKE</b> equals 98, 99, and <b>NCSA MODEL</b> equals ____,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>VEHICLE</b> MODEL YEAR should equal ____ ( <b>NCSA MODEL</b> and <b>VEHICLE MODEL YEAR</b> should be valid according to Vehicle Tables).           |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>THEN</b>                                                                                                                                                                                                   |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| VA95            | VEHICLE MODEL YEAR is less than 2000,                                                                                                                                                                                                                                                                                                                                                                                                  | MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S) Subfield 1 must equal 00.                                                                                                                                           |
| VA96            | VEHICLE MODEL YEAR is between 2000 and 2012 and MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S)-Subfield 1 equals 01,                                                                                                                                                                                                                                                                                                                        | MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S)-Subfield 2 must equal 01.                                                                                                                                           |
| VA98            | <i>vPIC BODY CLASS equals 006 (Motorcycle - Standard), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring / Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 109 (Motorcycle - Cross Country), or 125 (Motorcycle - Unknown Body Type), and VEHICLE MODEL YEAR is less than 2021,</i> | MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S) Subfield 1 must equal 00.                                                                                                                                           |
| VP04            | <i>any one of the fields vPIC MAKE, vPIC MODEL, vPIC BODY CLASS, VEHICLE MODEL YEAR, NCSA MAKE, NCSA MODEL, and NCSA BODY TYPE equals Not Reported (vPIC MAKE [99998], vPIC MODEL [99998], vPIC BODY CLASS [998], VEHICLE MODEL YEAR [9998], NCSA MAKE [97], NCSA MODEL [997], NCSA BODY TYPE [98])</i>                                                                                                                                | <i>the other six must also equal Not Reported (vPIC MAKE [99998], vPIC MODEL [99998], vPIC BODY CLASS [998], VEHICLE MODEL YEAR [9998], NCSA MAKE [97], NCSA MODEL [997], NCSA BODY TYPE [98]).</i>           |
| VP05            | <i>vPIC MAKE is not 99997, 99998, 99999, and equals ___, and vPIC MODEL equals ___,</i>                                                                                                                                                                                                                                                                                                                                                | <i>VEHICLE MODEL YEAR must equal ___, or CRASH YEAR plus 1.</i>                                                                                                                                               |
| VP06            | <i>any one of the fields vPIC MAKE, vPIC MODEL, vPIC BODY CLASS, VEHICLE MODEL YEAR, NCSA MAKE, NCSA MODEL and NCSA BODY TYPE does not equal Not Reported (vPIC MAKE [99998], vPIC MODEL [99998], vPIC BODY CLASS [998], VEHICLE MODEL YEAR [9998], NCSA MAKE [97], NCSA MODEL [997], NCSA BODY TYPE [98])</i>                                                                                                                         | <i>the other six must also not be coded as Not Reported (vPIC MAKE [99998], vPIC MODEL [99998], vPIC BODY CLASS [998], VEHICLE MODEL YEAR [9998], NCSA MAKE [97], NCSA MODEL [997], NCSA BODY TYPE [98]).</i> |

**Consistency Checks (CRSS Only) ([See Section 400](#)):**

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                              | <b>THEN</b>                                                                                                                                                  |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| V271            | <b>VEHICLE</b> MODEL YEAR is greater than 1980 and PSU_STATE is equal to GA,                                                                                                                                           | the first 11 characters of VEHICLE IDENTIFICATION NUMBER should be alphanumeric (A-Z, a-z, 0-9), and no characters should equal I, O, or Q.                  |
| V272            | <b>VEHICLE</b> MODEL YEAR is greater than 1980 and PSU_STATE is not equal to GA <b>or MN</b> ,                                                                                                                         | the VEHICLE IDENTIFICATION NUMBER should be 17 characters, all characters should be alphanumeric (A-Z, a-z, 0-9), and no characters should equal I, O, or Q. |
| V281            | <b>VEHICLE</b> MODEL YEAR is greater than 1980 and VEHICLE IDENTIFICATION NUMBER is 17 characters and PSU_STATE is not equal to GA, all characters are alphanumeric (A-Z, a-z, 0-9), and no characters are I, O, or Q, | the VEHICLE IDENTIFICATION NUMBER should pass check digit calculation.                                                                                       |

**Consistency Checks (FARS Only) ([See Section 400](#)):**

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                             | <b>THEN</b>                                                                                                                        |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| V270            | <b>VEHICLE</b> MODEL YEAR is greater than 1980,                                                                                                                                       | the VIN should be 17 characters, all characters should be alphanumeric (A-Z, a-z, 0-9), and no characters should equal I, O, or Q. |
| V280            | <b>VEHICLE</b> MODEL YEAR is greater than 1980 and VEHICLE IDENTIFICATION NUMBER is 17 characters, all characters are alphanumeric (A-Z, a-z, 0-9), and no characters are I, O, or Q, | the VIN should pass check digit calculation.                                                                                       |

## V11 - vPIC Make

FORMAT: 5 numeric

SAS NAME: Vehicle.vPICMAKE, Person.vPICMAKE, Parkwork. PvPICMAKE

ELEMENT VALUES:

| Codes | Attributes                                                                                                                                                                                           |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ----  | Use this URL to get the list of the latest vPIC Make:<br><a href="https://vpic.nhtsa.dot.gov/api/vehicles/getallmakes?format=csv">https://vpic.nhtsa.dot.gov/api/vehicles/getallmakes?format=csv</a> |
| 99997 | <a href="#"><u>Other</u></a>                                                                                                                                                                         |
| 99998 | <a href="#"><u>Not Reported</u></a>                                                                                                                                                                  |
| 99999 | <a href="#"><u>Unknown</u></a>                                                                                                                                                                       |

**Definition:** This element identifies the Make (manufacturer brand name) of this vehicle as per NHTSA vPIC submissions.

**Remarks:** SEE ADDITIONAL REMARKS UNDER [vPIC MAKE / vPIC MODEL / vPIC BODY CLASS OVERVIEW](#).

Because the vPIC dataset is updated frequently when new or updated VIN decode information are submitted by vehicle manufacturers, the following URL is provided to retrieve the most up-to-date vPIC Make for reference:

<https://vpic.nhtsa.dot.gov/api/vehicles/getallmakes?format=csv>.

If there is a VIN that can be cleanly decoded, vPIC Make is automatically populated in the coding software. If there is no VIN or the VIN is decoded with error, i.e., manual coding is required, the most up-to-date list of vPIC Make is made available in the coding software for selection. Note that for both vPIC MAKE and vPIC MODEL, the use of the terms “Other” and “Unknown” have very specific meanings. “Other” refers to a Make or Model that is known but is not explicitly listed. “Unknown” refers to the situation where no specific make or model is known.

99997 (Other) is used when the make or model is known, but it is not explicitly listed Makes.

99998 (Not Reported)

If a State’s crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered “Not Reported.”

Code 99998 (Not Reported) in these two situations:

1. No field or coding block exists on the State’s crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State’s crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State’s crash report that does not map to any FARS/CRSS

attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

99999 (Unknown) is used when the vehicle is reported as Unknown unless reliable evidence indicates the vehicle's make. If any detail is known regarding the vehicle's MAKE/MODEL/BODY/MODEL YEAR, code what is known and then code the other elements as Unknown. If a vehicle Make or vehicle Model is encountered that is not listed, NHTSA headquarters is notified.

Consistency Checks ([See Section 400](#)):

| Error ID | IF                                                                                                                                                                                                                                                                                                      | THEN                                                                                                                                                                                                   |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| VP02     | VEHICLE IDENTIFICATION NUMBER is not equal to 0000000000000000, 8888888888888888, or 9999999999999999                                                                                                                                                                                                   | vPIC MAKE must not equal to a Trailer Make.                                                                                                                                                            |
| VP03     | VEHICLE IDENTIFICATION NUMBER is valid and decodes with error code only in 0, 1, 10, 400, and vPIC Body Class is not 62-65, 67, 70-72, 74-78, 107, 112,                                                                                                                                                 | vPIC MAKE, vPIC MODEL, vPIC BODY CLASS, NCSA MAKE, NCSA MODEL, and NCSA BODY TYPE must equal the corresponding decoded data values.                                                                    |
| VP04     | any one of the fields vPIC MAKE, vPIC MODEL, vPIC BODY CLASS, VEHICLE MODEL YEAR, NCSA MAKE, NCSA MODEL, and NCSA BODY TYPE equals Not Reported (vPIC MAKE [99998], vPIC MODEL [99998], vPIC BODY CLASS [998], VEHICLE MODEL YEAR [9998], NCSA MAKE [97], NCSA MODEL [997], NCSA BODY TYPE [98])        | the other six must also equal Not Reported (vPIC MAKE [99998], vPIC MODEL [99998], vPIC BODY CLASS [998], VEHICLE MODEL YEAR [9998], NCSA MAKE [97], NCSA MODEL [997], NCSA BODY TYPE [98]).           |
| VP05     | vPIC MAKE is not 99997, 99998, 99999, and equals ____, and vPIC MODEL equals ____,                                                                                                                                                                                                                      | VEHICLE MODEL YEAR must equal ____, or CRASH YEAR plus 1.                                                                                                                                              |
| VP06     | any one of the fields vPIC MAKE, vPIC MODEL, vPIC BODY CLASS, VEHICLE MODEL YEAR, NCSA MAKE, NCSA MODEL and NCSA BODY TYPE does not equal Not Reported (vPIC MAKE [99998], vPIC MODEL [99998], vPIC BODY CLASS [998], VEHICLE MODEL YEAR [9998], NCSA MAKE [97], NCSA MODEL [997], NCSA BODY TYPE [98]) | the other six must also not be coded as Not Reported (vPIC MAKE [99998], vPIC MODEL [99998], vPIC BODY CLASS [998], VEHICLE MODEL YEAR [9998], NCSA MAKE [97], NCSA MODEL [997], NCSA BODY TYPE [98]). |
| VP07     | UNLIKELY: vPIC MAKE equals 99998 if HIT AND RUN does not equal 1.                                                                                                                                                                                                                                       | --                                                                                                                                                                                                     |
| VP08     | vPIC MAKE equals 99999,                                                                                                                                                                                                                                                                                 | vPIC MODEL must equal 99999.                                                                                                                                                                           |
| VP09     | vPIC MAKE equals 99997                                                                                                                                                                                                                                                                                  | vPIC MODEL must equal 99997.                                                                                                                                                                           |
| VP10     | vPIC MAKE equals 99997                                                                                                                                                                                                                                                                                  | NCSA MAKE must equal 98 (Other Make).                                                                                                                                                                  |



|             |                                                                                                      |                                                       |
|-------------|------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| <b>VP11</b> | <b><i>vPIC MAKE equals 99999</i></b>                                                                 | <b><i>NCSA MAKE must equal 99 (Unknown Make).</i></b> |
| <b>VP13</b> | <b><i>UNLIKELY: vPIC MAKE equals 99997.</i></b>                                                      | --                                                    |
| <b>VP14</b> | <b><i>UNLIKELY: vPIC MODEL equals 99997 and vPIC MAKE does not equal 99997, 99998, or 99999.</i></b> | --                                                    |

## V12 - vPIC Model

**FORMAT:** 5 numeric

**SAS NAME:** Vehicle.vPICMODEL, Person.vPICMODEL, Parkwork.PvPICMODEL

**ELEMENT VALUES:**

| Codes | Attributes                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ----- | Use the following URL to get the list of vPIC Model for a specific vPIC Make (see examples below):<br><br><a href="https://vpic.nhtsa.dot.gov/api/vehicles/GetModelsForMakeId/*?format=csv">https://vpic.nhtsa.dot.gov/api/vehicles/GetModelsForMakeId/*?format=csv</a><br><a href="https://vpic.nhtsa.dot.gov/api/vehicles/getmodelsformake/*?format=csv">https://vpic.nhtsa.dot.gov/api/vehicles/getmodelsformake/*?format=csv</a> |
| 99997 | <a href="#">Other</a>                                                                                                                                                                                                                                                                                                                                                                                                                |
| 99998 | <a href="#">Not Reported</a>                                                                                                                                                                                                                                                                                                                                                                                                         |
| 99999 | <a href="#">Unknown</a>                                                                                                                                                                                                                                                                                                                                                                                                              |

**Definition:** This element identifies the Model of this vehicle using NHTSA's VIN decoder application, vPIC.

**Remarks:** SEE ADDITIONAL REMARKS UNDER [vPIC MAKE / vPIC MODEL / vPIC BODY CLASS OVERVIEW](#).

If there is a VIN that can be decoded cleanly, vPIC Model is automatically populated in the coding software. If there is no VIN or the VIN decodes with error, this value should be manually coded. Based on the vPIC Make selected, the most up-to-date list of vPIC Model is made available for selection in the coding software. Without a VIN or a VIN with decode error, the selection of the Model should be based on the information from the Vehicle Registration (FARS Only) or PCR.

For reference, to look up the vPIC Models for a given vPIC Make, please pass a valid Make ID or Make Name in the URLs as follows:

- Replace \* in the URL with vPIC Make ID (see examples below):  
[https://vpic.nhtsa.dot.gov/api/vehicles/GetModelsForMakeId/\\*?format=csv](https://vpic.nhtsa.dot.gov/api/vehicles/GetModelsForMakeId/*?format=csv)
- Replace \* in the URL with vPIC Make Name (see examples below):  
[https://vpic.nhtsa.dot.gov/api/vehicles/getmodelsformake/\\*?format=csv](https://vpic.nhtsa.dot.gov/api/vehicles/getmodelsformake/*?format=csv)

**Example 1:** Use the following URL to see all the Models for Buick:

Use Buick Make ID 468 as parameter:

<https://vpic.nhtsa.dot.gov/api/vehicles/GetModelsForMakeId/468?format=csv>

Use the Make Name "Buick" as parameter:

<https://vpic.nhtsa.dot.gov/api/vehicles/getmodelsformake/Buick?format=csv>

**Example 2: Use the following URL to see all the Models for Toyota**

**Use Toyota Make ID 448 as parameter:**

**<https://vpic.nhtsa.dot.gov/api/vehicles/GetModelsForMakeId/448?format=csv>**

**Use the Make Name “Toyota” as parameter:**

**<https://vpic.nhtsa.dot.gov/api/vehicles/getmodelsformake/Toyota?format=csv>**

**Note that for both vPIC MAKE and vPIC MODEL, the use of the terms “Other” and “Unknown” have very specific meanings. “Other” refers to a Make or Model that is known but is not explicitly listed. “Unknown” refers to the situation where no specific Make or Model is known.**

**99997 (Other) is used when the make or model is known, but it is not explicitly listed Models.**

**99998 (Not Reported)**

**If a State’s crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered “Not Reported.”**

**Code 99998 (Not Reported) in these two situations:**

- 1. No field or coding block exists on the State’s crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).**
- 2. A field or coding block exists on the State’s crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State’s crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).**

**99999 (Unknown) is used when the vehicle is reported as Unknown unless reliable evidence indicates the vehicle’s make. If any detail is known regarding the vehicle’s MAKE/MODEL/BODY /MODEL YEAR, code what is known and then code the other elements as Unknown.**

**If a vehicle Make or vehicle Model is encountered that is not listed, NHTSA headquarters is notified.**

**Consistency Checks [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                                                                      | <b>THEN</b>                                                                                                                                |
|-----------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <b>VP03</b>     | <b>VEHICLE IDENTIFICATION NUMBER decodes with error code only in (1, 400),</b> | <b>VPIC MAKE, VPIC MODEL, VPIC BODY CLASS, NCSA MAKE, NCSA MODEL, and NCSA BODY TYPE must equal the corresponding decoded data values.</b> |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                       | <b>THEN</b>                                                                                                                                                                                                   |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>VP04</b>     | <b>any one of the fields vPIC MAKE, vPIC MODEL, vPIC BODY CLASS, VEHICLE MODEL YEAR, NCSA MAKE, NCSA MODEL, and NCSA BODY TYPE equals Not Reported (vPIC MAKE [99998], vPIC MODEL [99998], vPIC BODY CLASS [998], VEHICLE MODEL YEAR [9998], NCSA MAKE [97], NCSA MODEL [997], NCSA BODY TYPE [98])</b>                                         | <b>the other six must also equal Not Reported (vPIC MAKE [99998], vPIC MODEL [99998], vPIC BODY CLASS [998], VEHICLE MODEL YEAR [9998], NCSA MAKE [97], NCSA MODEL [997], NCSA BODY TYPE [98]).</b>           |
| <b>VP05</b>     | <b>vPIC MAKE is not 99997, 99998, 99999, and equals ____, and vPIC MODEL equals ____,</b>                                                                                                                                                                                                                                                       | <b>VEHICLE MODEL YEAR must equal ____, or CRASH YEAR plus 1.</b>                                                                                                                                              |
| <b>VP06</b>     | <b>any one of the fields vPIC MAKE, vPIC MODEL, vPIC BODY CLASS, VEHICLE MODEL YEAR, NCSA MAKE, NCSA MODEL and NCSA BODY TYPE does not equal Not Reported (vPIC MAKE [99998], vPIC MODEL [99998], vPIC BODY CLASS [998], VEHICLE MODEL YEAR [9998], NCSA MAKE [97], NCSA MODEL [997], NCSA BODY TYPE [98])</b>                                  | <b>the other six must also not be coded as Not Reported (vPIC MAKE [99998], vPIC MODEL [99998], vPIC BODY CLASS [998], VEHICLE MODEL YEAR [9998], NCSA MAKE [97], NCSA MODEL [997], NCSA BODY TYPE [98]).</b> |
| <b>VP08</b>     | <b>vPIC MAKE equals 99999,</b>                                                                                                                                                                                                                                                                                                                  | <b>vPIC MODEL must equal 99999.</b>                                                                                                                                                                           |
| <b>VP09</b>     | <b>vPIC MAKE equals 99997</b>                                                                                                                                                                                                                                                                                                                   | <b>vPIC MODEL must equal 99997.</b>                                                                                                                                                                           |
| <b>VP14</b>     | <b>UNLIKELY: vPIC MODEL equals 99997 and vPIC MAKE does not equal 99997, 99998, or 99999.</b>                                                                                                                                                                                                                                                   | <b>--</b>                                                                                                                                                                                                     |
| <b>VP15</b>     | <b>UNLIKELY: vPIC MODEL equals 99997 and NCSA MODEL does not equal 398 (Other (Automobile)), 498 (Other (Light Trucks)), 598 (Other (Low Speed Vehicle (LSV)/Neighborhood Electric Vehicle (NEV))), 709 (Unknown cc (Motorcycles)), 739 (Unknown cc (ATV)), 898 (Other (Medium/Heavy Trucks)), 988 (Other (Bus)), or 998 (Other (Vehicle)).</b> | <b>--</b>                                                                                                                                                                                                     |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                            | <b>THEN</b> |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| <b>VP16</b>     | <b>UNLIKELY: vPIC MODEL equals 99999 and NCSA MODEL does not equal 399 (Unknown (Automobile)), 499 (Unknown (Light Trucks)), 599 (Unknown (Low Speed Vehicle (LSV)/Neighborhood Electric Vehicle (NEV))), 709 (Unknown cc (Motorcycles)), 739 (Unknown cc (ATV)), 884 (Medium/Heavy Trucks - Unknown engine location), 898 (Other, Unknown, truck over 10,000 lbs. GVWR), 989 (Unknown (Bus)), or 999 (Unknown).</b> | --          |
| <b>VP82</b>     | <b>UNLIKELY: vPIC MODEL equals 99997.</b>                                                                                                                                                                                                                                                                                                                                                                            | --          |

## V13 - vPIC Body Class

FORMAT: 3 numeric

SAS NAME: Vehicle.vPICBODYCLASS, Person.vPICBODYCLASS,  
Parkwork.PvPICBODYClass

ELEMENT VALUES:

| <i>Codes</i> | <i>Attributes</i>                                                                    |
|--------------|--------------------------------------------------------------------------------------|
| 016          | <a href="#"><u>Bus</u></a>                                                           |
| 073          | <a href="#"><u>Bus - School Bus</u></a>                                              |
| 095          | <a href="#"><u>Cargo Van</u></a>                                                     |
| 001          | <a href="#"><u>Convertible/Cabriolet</u></a>                                         |
| 003          | <a href="#"><u>Coupe</u></a>                                                         |
| 008          | <a href="#"><u>Crossover Utility Vehicle (CUV)</u></a>                               |
| 005          | <a href="#"><u>Hatchback/Liftback/Notchback</u></a>                                  |
| 065          | <i>Incomplete</i>                                                                    |
| 107          | <i>Incomplete - Bus Chassis</i>                                                      |
| 070          | <i>Incomplete - Chassis Cab (Double Cab)</i>                                         |
| 074          | <i>Incomplete - Chassis Cab (Number of Cab Unknown)</i>                              |
| 063          | <i>Incomplete - Chassis Cab (Single Cab)</i>                                         |
| 072          | <i>Incomplete - Commercial Bus Chassis</i>                                           |
| 112          | <i>Incomplete - Commercial Chassis</i>                                               |
| 062          | <i>Incomplete - Cutaway</i>                                                          |
| 064          | <i>Incomplete - Glider</i>                                                           |
| 076          | <i>Incomplete - Motor Coach Chassis</i>                                              |
| 078          | <i>Incomplete - Motor Home Chassis</i>                                               |
| 071          | <i>Incomplete - School Bus Chassis</i>                                               |
| 077          | <i>Incomplete - Shuttle Bus Chassis</i>                                              |
| 067          | <i>Incomplete - Stripped Chassis</i>                                                 |
| 075          | <i>Incomplete - Transit Bus Chassis</i>                                              |
| 117          | <a href="#"><u>Limousine</u></a>                                                     |
| 004          | <a href="#"><u>Low Speed Vehicle (LSV) / Neighborhood Electric Vehicle (NEV)</u></a> |
| 002          | <a href="#"><u>Minivan</u></a>                                                       |
| 125          | <a href="#"><u>Motorcycle - Unknown Body Type</u></a>                                |
| 114          | <a href="#"><u>Motorcycle - Competition</u></a>                                      |

| <b>Codes</b> | <b>Attributes</b>                                                                                  |
|--------------|----------------------------------------------------------------------------------------------------|
| 109          | <a href="#"><u>Motorcycle - Cross Country</u></a>                                                  |
| 082          | <a href="#"><u>Motorcycle - Cruiser</u></a>                                                        |
| 094          | <a href="#"><u>Motorcycle - Custom</u></a>                                                         |
| 085          | <a href="#"><u>Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-road</u></a>               |
| 100          | <a href="#"><u>Motorcycle - Enclosed Three Wheeled / Enclosed Autocycle</u></a>                    |
| 104          | <a href="#"><u>Motorcycle - Moped</u></a>                                                          |
| 012          | <a href="#"><u>Motorcycle - Scooter</u></a>                                                        |
| 090          | <a href="#"><u>Motorcycle - Side Car</u></a>                                                       |
| 087          | <a href="#"><u>Motorcycle - Small / Minibike</u></a>                                               |
| 080          | <a href="#"><u>Motorcycle - Sport</u></a>                                                          |
| 006          | <a href="#"><u>Motorcycle - Standard</u></a>                                                       |
| 098          | <a href="#"><u>Motorcycle - Street</u></a>                                                         |
| 081          | <a href="#"><u>Motorcycle - Touring / Sport Touring</u></a>                                        |
| 083          | <a href="#"><u>Motorcycle - Trike</u></a>                                                          |
| 110          | <a href="#"><u>Motorcycle - Underbone</u></a>                                                      |
| 103          | <a href="#"><u>Motorcycle - Unenclosed Three Wheeled / Open Autocycle</u></a>                      |
| 108          | <a href="#"><u>Motorhome</u></a>                                                                   |
| 069          | <a href="#"><u>Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)</u></a>             |
| 127          | <a href="#"><u>Off-road Vehicle - Construction Equipment</u></a>                                   |
| 084          | <a href="#"><u>Off-road Vehicle - Dirt Bike / Off-Road</u></a>                                     |
| 086          | <a href="#"><u>Off-road Vehicle - Enduro (Off-road long-distance racing)</u></a>                   |
| 126          | <a href="#"><u>Off-road Vehicle - Farm Equipment</u></a>                                           |
| 088          | <a href="#"><u>Off-road Vehicle - Go Kart</u></a>                                                  |
| 124          | <a href="#"><u>Off-road Vehicle - Golf Cart</u></a>                                                |
| 113          | <a href="#"><u>Off-road Vehicle - Motocross</u></a> (Off-road short distance, closed track racing) |
| 105          | <a href="#"><u>Off-road Vehicle - Recreational Off-Road Vehicle (ROV)</u></a>                      |
| 097          | <a href="#"><u>Off-road Vehicle - Snowmobile</u></a>                                               |
| 060          | <a href="#"><u>Pickup</u></a>                                                                      |
| 010          | <a href="#"><u>Roadster</u></a>                                                                    |
| 013          | <a href="#"><u>Sedan/Saloon</u></a>                                                                |
| 119          | <a href="#"><u>Sport Utility Truck (SUT)</u></a>                                                   |
| 007          | <a href="#"><u>Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)</u></a>                     |

| Codes | Attributes                                    |
|-------|-----------------------------------------------|
| 111   | <a href="#"><u>Step Van / Walk-in Van</u></a> |
| 068   | <a href="#"><u>Streetcar / Trolley</u></a>    |
| 011   | <a href="#"><u>Truck</u></a>                  |
| 066   | <a href="#"><u>Truck-Tractor</u></a>          |
| 009   | <a href="#"><u>Van</u></a>                    |
| 015   | <a href="#"><u>Wagon</u></a>                  |
| 996   | Motorized Bicycle                             |
| 997   | <a href="#"><u>Other</u></a>                  |
| 998   | <a href="#"><u>Not Reported</u></a>           |
| 999   | <a href="#"><u>Unknown</u></a>                |

**Definition:** This element identifies a classification of this vehicle based on its general body configuration, size, shape, doors, etc. as defined by the manufacturer.

**Remarks:** SEE ADDITIONAL REMARKS UNDER [vPIC MAKE/ vPIC MODEL / vPIC BODY CLASS OVERVIEW](#)

vPIC BODY CLASS is what vehicle manufacturers are required to report to NHTSA through [49 CFR Part 565](#) submissions except in the case of off-road vehicles. Off-road vehicles are not required to be reported to NHTSA and any information should be considered provided in a voluntary sense, which may not cover all off-road vehicles. The following definitions are guidelines to code this data element manually when the VIN is unknown or cannot be decoded cleanly.

If the vehicle is an [Incomplete vehicle](#) and its vPIC BODY CLASS belongs to one of the Incomplete Vehicle codes, enter the completed body class for this vehicle under [FINAL STAGE BODY CLASS](#).

001 (Convertible/Cabriolet) refers to a passenger car equipped with a removable or retractable roof. To qualify for this code, the entire roof must open. Convertible roofs are generally fabric; however, removable hardtops are also included.

002 (Minivan) refers to down-sized cargo or passenger unibody vans.

003 (Coupe) refers to a passenger car equipped usually with two/three doors for ingress/egress and a separate trunk area for cargo (e.g., trunk lid hinged below the backlight). Folding rear seats do not necessarily violate the separate "trunk area" concept. These cars have a sporty flair and can also come with 4 doors.

004 (Low Speed Vehicle (LSV)/Neighborhood Electric Vehicle (NEV)) refers to a vehicle that is designed for travel on secondary roads with speed limits equal to or less than 35 mph. LSVs can sometimes resemble golf carts but differ in that they must adhere to Federal Motor Vehicle Safety Standard (FMVSS) 500. Provisions of FMVSS 500 include the following.



***The Vehicle must have:***

- ***Four wheels***
- ***Top speed of at least 20 mph, but it cannot exceed 25 mph***
- ***GVWR\_to and GVWR\_from less than 3,001 pounds***
- ***Head, turn signal, and tail lamps***
- ***Reflex reflectors***
- ***Parking brake***
- ***Rear view mirrors***
- ***Windshield***
- ***Safety belts***
- ***Seventeen (17) character VIN***

***005 (Hatchback/Liftback/Notchback) refers to a passenger car equipped with two/four doors for ingress/egress and a rear hatch opening for cargo (e.g., hinged above the backlight). The cargo area is not permanently partitioned from the passenger compartment area.***

***006 (Motorcycle - Standard) is used when a motor vehicle having a seat or saddle for the use of its operator is a two-wheeled open (e.g., no enclosed body) vehicle propelled by a motor. Motorcycles equipped with a side car should use the code [090 \(Motorcycle-Side car\)](#).***

***007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)) refers to a passenger motor vehicle constructed either on a truck chassis or with special features for occasional off-road operation.***

***008 (Crossover Utility Vehicle (CUV)) refers to a type of sports utility vehicle often built on the same platform as passenger cars. Therefore, these CUVs often have less off-road capability than truck-based SUVs.***

***009 (Van) Van means a vehicle with a body that fully encloses the driver and a cargo carrying or work performing compartment. The distance from the leading edge of the windshield to the foremost body section of vans is typically shorter than that of pickup trucks and sport utility vehicles per 49 CFR § 523.2. This attribute applies in case it is not clear if it is a [002 \(Minivan\)](#) or [095 \(Cargo Van\)](#).***

***010 (Roadster) refers to an open two-seat passenger car with emphasis on sporting appearance or character.***

***011 (Truck) A truck is a motor vehicle designed to transport cargo. 011 (Truck) includes light, medium, and heavy truck body styles.***

***012 (Motorcycle - Scooter) refers to a light, two-wheeled, open motor vehicle on which the driver sits over an enclosed engine with legs together and feet resting on a floorboard.***

***013 (Sedan/Saloon) refers to a passenger car equipped usually with four doors for ingress/egress and a separate trunk area for cargo (e.g., trunk lid hinged below the backlight). Folding rear seats do not necessarily violate the separate “trunk area” concept. Sedan/Saloon***

can sometimes have only 2-doors. If it is not clear whether the vehicle is a [003 \(Coupe\)](#) or 013 (Sedan/Saloon), code as 013 (Sedan/Saloon).

015 (Wagon) refers to a passenger car with an enlarged cargo area. The entire roof covering the cargo area is generally equal in height from front to rear and full height side glass is installed between the C and D-pillars. The rearmost area is not permanently partitioned from the forward passenger compartment area (e.g., “horizontal window shades” to hide cargo do not constitute partitions).

016 (Bus) means a motor vehicle with motive power, except a trailer, designed for carrying more than 10 people per 49 CFR§ 571.3. [068 \(Streetcar / Trolley\)](#) or [73 \(Bus - School Bus\)](#) are categorized separately.

060 (Pickup) is a single unit straight truck with a pickup body style. The pickup truck may be equipped with a removable or retractable roof. 060 (Pickup) includes light, medium, and heavy pickup body styles.

066 (Truck-Tractor) describes a fifth wheel equipped tractor-trailer power unit. The number of trailing units is not a consideration. Without trailers, it is sometimes called a Bobtail.

068 (Streetcar / Trolley) A vehicle used primarily for transporting passengers and typically operating on city streets. This vehicle must have tires. Do NOT use this attribute for street cars/trolleys operating on rails. See [Section 203. How to Structure a Case, Step 1: Number of Persons Not in Motor Vehicles](#).

069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)) is used for off-road recreational vehicles. ATV/ATCs have 3 or 4 wheels, a saddle type seat, and handlebars for steering (no steering wheel). Does not include [105 \(Off-road Vehicle - Recreational Off-Highway Vehicles \(ROV\)\)](#).

073 (Bus - School Bus) (designed to carry students, not cross -country or transit) is a bus designed to carry passengers to and from educational facilities and/or related functions. Use this code regardless of whether the vehicle is owned by a school system or a private company. School buses converted for other uses (e.g., church bus) also take this code.

080 (Motorcycle - Sport) is used when a motor vehicle having a seat or saddle for the use of its operator is a two-wheeled open (e.g., no enclosed body) vehicle propelled by a motor specifically optimized for speed, acceleration, braking, and cornering on paved roads.

081 (Motorcycle - Touring / Sport Touring) are specifically designed to excel at covering long distances. They have large-displacement engines, fairings and screens that offer good weather and wind protection, large-capacity fuel tanks for long ranges between fill-ups, and a relaxed, upright seating position.

082 (Motorcycle - Cruiser) are motorcycles usually with large-displacement V-twin engines with a riding position that places the feet forward and the hands relatively high.

083 (Motorcycle - Trike) is used when the vehicle is a three-wheeled open vehicle propelled by a motor, or a three-wheeled motorized bicycle capable of moving either by pedaling or by a motor.

084 (Off-road Vehicle - Dirt Bike / Off-Road) is used when the vehicle is a two-wheeled open vehicle propelled by a motor designed or built for off-road use only.

**085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road)** are street legal machines that are also designed to enter off-road situations. Typically based on a dirt bike chassis, they have added lights, mirrors, signals, and instruments that allow them to be licensed for public roads.

**086 (Off-road Vehicle - Enduro (Off-road long-distance racing))** are off-road motorcycles that are modified for riders to compete over a longer course.

**087 (Motorcycle - Small / Minibike)** A minibike is a miniature motorcycle. Most minibikes have a four-stroke engine and are chain driven. This includes Pocketbike, Mini Choppers, etc.

**088 (Off-road Vehicle - Go Kart)** is a type of open-wheel car built for off-road use only.

**090 (Motorcycle - Side Car)** is used when a motor vehicle having a seat or saddle for the use of its operator is a two-wheeled open (e.g., no enclosed body) vehicle propelled by a motor and equipped with a side car. Only motorcycles equipped with a side car should use this code.

**094 (Motorcycle - Custom)** A custom motorcycle is a motorcycle with stylistic and/or structural changes to the “standard” mass-produced machine offered by major manufacturers. Custom motorcycles might be unique or built in limited quantities. Bobber, Chopper, Scrambler, Cafe Racer, Streetfighter are examples of custom motorcycles.

**095 (Cargo Van)** refers to a standard van specifically used for cargo.

**097 (Off-road Vehicle - Snowmobile)** refers to a vehicle designed to be operated over snow propelled by a motor.

**098 (Motorcycle - Street)** are motorcycles designed to be ridden on paved roads. They have smooth tires with a light tread pattern and engines generally in the 125 cc (7.6 cu in) and over range. Most are capable of speeds up to 100 mph (160 km/h), and many of speeds in excess of 125 mph (201 km/h).

**100 (Motorcycle - Enclosed Three Wheeled / Enclosed Autocycle)** A large motorcycle with three wheels, configured with two front wheels, a seat(s), and steering wheel and is completely enclosed.

**103 (Motorcycle - Unenclosed Three Wheeled / Open Autocycle)** A large motorcycle with three wheels, configured with two front wheels and a saddle with handlebars, or seat(s) and a steering wheel, but not completely enclosed.

**104 (Motorcycle - Moped)** is used when the vehicle is a speed-limited motor-driven cycle capable of moving either by pedaling or by a motor. Note: In the circumstance that a person operating a motorized bicycle is classified as a non-motorist on the police crash report, this person should be coded as a motor vehicle occupant rather than a non-motorist in FARS/CRSS.

**105 (Off-road Vehicle - Recreational Off-Road Vehicle (ROV))** ROVs are intended to be used on terrain similar to that on which all-terrain vehicles (ATVs) are used. ROVs are distinguished from ATVs by the presence of a steering wheel instead of a handlebar for steering, bench or bucket seats for the driver and passenger(s) instead of straddle seating, and foot controls for throttle and braking instead of levers located on the handlebar. In addition, ROVs have a rollover protective system (ROPS), restraint systems, and a maximum speed greater than 30 mph.

**108 (Motorhome)** is used when it is known the vehicle is a motor home. This includes light vehicle-based motor homes (chassis mounted), medium/heavy vehicle-based motor homes, and campers or motor homes with unknown GVWR.

**109 (Motorcycle - Cross Country)** Cross-country motorcycles are used for cross-country racing.

**110 (Motorcycle - Underbone)** is a motorcycle that uses structural tube framing with an overlay of plastic or non-structural body panels and contrasts with monocoque or unibody designs where pressed steel serves both as the vehicle's structure and bodywork.

**111 (Step Van / Walk-in Van)** refers to a multi-stop delivery vehicle. Examples are the Grumman LLV used by the U.S. Postal Service or the Aeromate manufactured by Utilimaster Motor Corporation.

**113 (Off-road Vehicle - Motocross (Off-road, short-distance, closed track racing))** Motocross is a form of off-road motorcycle racing held on enclosed off-road circuits.

**114 (Motorcycle - Competition)** the classification simply designates these motorcycles as being used in some sort of racing or competition.

**117 (Limousine)** A limousine is a luxury vehicle typically driven by a chauffeur with a partition between the driver's compartment and the passenger's compartment. Stretch limos, limo buses (also known as party buses), sedan limos, SUV limos, convertible limos, and all other types of limos would also be coded as 117 (Limousine).

**119 (Sport Utility Truck (SUT))** General Motors labels several of its vehicles as SUTs. These vehicles include Cadillac Escalade, Chevrolet Avalanche, Hummer Pickup Truck. The common features of these vehicles are that they are pickup-truck-based sport utility vehicles with 4 doors and a pickup truck beds.

**124 (Off-road Vehicle - Golf Cart)** is a motor vehicle that is designed and manufactured for operation on a golf course for sporting or recreational purposes. Golf carts or golf cars are different from code [004 \(Low speed vehicle \(LSV\)/ Neighborhood Electric Vehicle \(NEV\)\)](#) in that if they are manufactured to go less than 20 mph, they are not subject to the Federal Motor Vehicle Safety Standard (FMVSS) 500. Thus, golf carts will not have a 17-digit VIN. Golf carts will have a nonstandard serial number that may be reported in the case material. Also, typically golf carts will not have safety features required of LSVs/NEVs under the FMVSS like safety belts, head lights, turn signal and tail lamps, rear view mirrors, etc., but may if made to be street legal.

**125 (Motorcycle - Unknown Body Type)** Use this code if you are unable to determine the specific type of Motorcycle (i.e., one of the other motorcycle attributes).

**126 (Off-road Vehicle - Farm Equipment)** This attribute is not under [49 CFR Part 565](#) regulation. Farm equipment is an off-road vehicle and does not require a VIN. This attribute is added so that the user can manually code farm equipment related crashes. Farm equipment refers to farming implements other than trucks propelled by a motor (farm tractors, combines, etc.).

**127 (Off-road Vehicle - Construction Equipment)** This attribute is not under [49 CFR Part 565](#) regulation. Construction equipment is an off-road vehicle and does not require a VIN. This attribute is added so that the user can manually code construction equipment related crashes.

*Construction equipment refers to construction equipment other than trucks propelled by a motor (bulldozer, road grader, etc.).*

### ***Incomplete Vehicles***

*If any of these attributes are used, [FINAL STAGE BODY CLASS](#) must also be completed.*

- *062 (Incomplete - Cutaway)*
- *063 (Incomplete - Chassis Cab (Single Cab))*
- *064 (Incomplete - Glider)*
- *065 (Incomplete)*
- *067 (Incomplete - Stripped Chassis)*
- *070 (Incomplete - Chassis Cab (Double Cab))*
- *071 (Incomplete - School Bus Chassis)*
- *072 (Incomplete - Commercial Bus Chassis)*
- *074 (Incomplete - Chassis Cab (Number of Cab Unknown))*
- *075 (Incomplete - Transit Bus Chassis)*
- *076 (Incomplete - Motor Coach Chassis)*
- *077 (Incomplete - Shuttle Bus Chassis)*
- *078 (Incomplete - Motor Home Chassis)*
- *107 (Incomplete - Bus Chassis)*
- *112 (Incomplete - Commercial Chassis)*

*997 (Other) is used when the motorized vehicle in question does not qualify for any of the above listed body classes.*

### ***998 (Not Reported)***

*If a State's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "Not Reported."*

*Code 998 (Not Reported) in these two situations:*

- 1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).*
- 2. A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).*

*999 (Unknown) is used when the available information regarding the type of vehicle is reported as Unknown.*

Consistency Checks [\(See Section 400\)](#):

| <b>Error ID</b> | <b>IF</b>                                                                                                                                        | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 440P            | UNDERRIDE/OVERRIDE equals 7,                                                                                                                     | <b>VEHICLE SEQUENCE OF EVENTS must not equal 12, 14, 45, or 55, or CRASH EVENTS equals 12, 14, 45, or 55 for that vehicle, AND the vPIC BODY CLASS for at least one of the corresponding vehicles (THIS VEHICLE or OTHER VEHICLE) in that row equals 006 (Motorcycle – Standard), 012 (Motorcycle – Scooter), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring / Sport Touring ), 082 (Motorcycle - Cruiser ), 083 (Motorcycle – Trike), 084 (Off-road Vehicle - Dirt Bike / Off-Road), 085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road), 086 (Off-road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small / Minibike), 088 (Off-road Vehicle - Go Kart), 090 (Motorcycle - Side Car), 094 (Motorcycle – Custom), 097 (Off-road Vehicle – Snowmobile), 098 (Motorcycle – Street), 104 (Motorcycle – Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle – Underbone), 113 (Off-road Vehicle - Motocross (Off-road short distance, closed track racing)), 114 (Motorcycle – Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle).</b> |
| 907P            | VEHICLE IDENTIFICATION NUMBER (VIN) does not equal 0s, 8s, or 9s,                                                                                | vPIC Body Class must not equal "Trailer" or "Incomplete - Trailer Chassis."                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 908P            | TRAILER VEHICLE IDENTIFICATION NUMBER (VIN) does not equal 0s, 7s, 8s, or 9s,                                                                    | <b>the trailer VIN decode</b> VPIC BODY CLASS must equal “Trailer” or “Incomplete - Trailer Chassis.”                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>V401</b>     | <b>NUMBER OF OCCUPANTS is 01-98, and vPIC BODY CLASS equals 108 (Motorhome), or FINAL STAGE BODY CLASS equals 108 (Motorhome),</b>               | <b>NUMBER OF OCCUPANTS should not be greater than 8.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>V402</b>     | <b>NUMBER OF OCCUPANTS is 01-98, and vPIC BODY CLASS equals 073 (Bus - School Bus), or FINAL STAGE BODY CLASS equals 073 (Bus - School Bus),</b> | <b>NUMBER OF OCCUPANTS should not be greater than 50.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                      | <b>THEN</b>                                                                                                                                                                                                   |
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| <b>V450</b>     | <b>NUMBER OF OCCUPANTS is 01-98, and vPIC BODY CLASS equals equal 016 (Bus) or 068 (Streetcar / Trolley), or FINAL STAGE BODY CLASS equals 016 (Bus) or 068 (Streetcar / Trolley),</b>                                                                                                                         | <b>NUMBER OF OCCUPANTS should not be greater than 60.</b>                                                                                                                                                     |
| <b>VP01</b>     | <b>VEHICLE IDENTIFICATION NUMBER is not equal to 000000000000000000, 888888888888888888, or 9999999999999999,</b>                                                                                                                                                                                              | <b>vPIC BODY CLASS must not equal 61 (Trailer) or 116 (Incomplete Trailer Chassis).</b>                                                                                                                       |
| <b>VP03</b>     | <b>VEHICLE IDENTIFICATION NUMBER decodes with error code only in (1, 400),</b>                                                                                                                                                                                                                                 | <b>VPIC MAKE, VPIC MODEL, VPIC BODY CLASS, NCSA MAKE, NCSA MODEL, and NCSA BODY TYPE must equal the corresponding decoded data values.</b>                                                                    |
| <b>VP04</b>     | <b>any one of the fields vPIC MAKE, vPIC MODEL, vPIC BODY CLASS, VEHICLE MODEL YEAR, NCSA MAKE, NCSA MODEL, and NCSA BODY TYPE equals Not Reported (vPIC MAKE [99998], vPIC MODEL [99998], vPIC BODY CLASS [998], VEHICLE MODEL YEAR [9998], NCSA MAKE [97], NCSA MODEL [997], NCSA BODY TYPE [98])</b>        | <b>the other six must also equal Not Reported (vPIC MAKE [99998], vPIC MODEL [99998], vPIC BODY CLASS [998], VEHICLE MODEL YEAR [9998], NCSA MAKE [97], NCSA MODEL [997], NCSA BODY TYPE [98]).</b>           |
| <b>VP06</b>     | <b>any one of the fields vPIC MAKE, vPIC MODEL, vPIC BODY CLASS, VEHICLE MODEL YEAR, NCSA MAKE, NCSA MODEL and NCSA BODY TYPE does not equal Not Reported (vPIC MAKE [99998], vPIC MODEL [99998], vPIC BODY CLASS [998], VEHICLE MODEL YEAR [9998], NCSA MAKE [97], NCSA MODEL [997], NCSA BODY TYPE [98])</b> | <b>the other six must also not be coded as Not Reported (vPIC MAKE [99998], vPIC MODEL [99998], vPIC BODY CLASS [998], VEHICLE MODEL YEAR [9998], NCSA MAKE [97], NCSA MODEL [997], NCSA BODY TYPE [98]).</b> |
| <b>VP17</b>     | <b>vPIC BODY CLASS equals 104 (Motorcycle - Moped),</b>                                                                                                                                                                                                                                                        | <b>NCSA BODY TYPE must equal 81 (Moped or Motorized Bicycle).</b>                                                                                                                                             |
| <b>VP18</b>     | <b>vPIC BODY CLASS equals 012 (Motorcycle - Scooter),</b>                                                                                                                                                                                                                                                      | <b>NCSA BODY TYPE must equal 84 (Motor Scooter).</b>                                                                                                                                                          |
| <b>VP19</b>     | <b>vPIC BODY CLASS equals 103 (Motorcycle - Unenclosed Three Wheeled/Open Autocycle),</b>                                                                                                                                                                                                                      | <b>NCSA BODY TYPE must equal 85 (Unenclosed Three Wheel Motorcycle/Unenclosed Autocycle (1 Rear Wheel)).</b>                                                                                                  |
| <b>VP20</b>     | <b>vPIC BODY CLASS equals 100 (Motorcycle - Enclosed Three Wheeled/Enclosed Autocycle),</b>                                                                                                                                                                                                                    | <b>NCSA BODY TYPE must equal 86 (Enclosed Three Wheel Motorcycle/Enclosed Autocycle (1 Rear Wheel)).</b>                                                                                                      |



| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>THEN</b>                                                                                                          |
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| VP21            | vPIC BODY CLASS equals 105 (Off-road Vehicle - Recreational Off-Road Vehicle (ROV)),                                                                                                                                                                                                                                                                                                                                                           | NCSA BODY TYPE must equal 96 (Recreational Off-Highway Vehicle (ROV)).                                               |
| VP22            | vPIC BODY CLASS equals 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), or 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)),                                                                                                                                                                                                                    | NCSA BODY TYPE must equal 83 (Off-Road Motorcycle).                                                                  |
| VP23            | vPIC BODY CLASS equals 088 (Off-road Vehicle - Go Kart),                                                                                                                                                                                                                                                                                                                                                                                       | NCSA BODY TYPE must equal 97 (Other Vehicle Type).                                                                   |
| VP24            | vPIC BODY CLASS equals 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)),                                                                                                                                                                                                                                                                                                                                                  | NCSA BODY TYPE must equal 90 (ATV/ATC (All-Terrain Cycle)).                                                          |
| VP25            | vPIC BODY CLASS equals 006 (Motorcycle - Standard), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 085 (Motorcycle - Dual Sport/Adventure/Supermoto/On/Off-Road), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 114 (Motorcycle - Competition), or 125 (Motorcycle - Unknown Body Type), | NCSA BODY TYPE must equal 80 (Two Wheel Motorcycle (excluding motor scooters)) or 89 (Unknown Motored Cycle Type).   |
| VP26            | vPIC BODY CLASS equals 087 (Motorcycle - Small/Minibike),                                                                                                                                                                                                                                                                                                                                                                                      | NCSA BODY TYPE must equal 88 (Other Motored Cycle (mini-bike, pocket motorcycles "pocket bikes")).                   |
| VP27            | vPIC BODY CLASS equals 083 (Motorcycle - Trike),                                                                                                                                                                                                                                                                                                                                                                                               | NCSA BODY TYPE must equal 82 (Three-Wheeled Motorcycle (2 Rear Wheels)) or 87 (Unknown Three Wheel Motorcycle Type). |
| VP28            | vPIC BODY CLASS equals 097 (Off-road Vehicle - Snowmobile),                                                                                                                                                                                                                                                                                                                                                                                    | NCSA BODY TYPE must equal 91 (Snowmobile).                                                                           |
| VP29            | vPIC BODY CLASS equals 004 (Low Speed Vehicle (LSV)/Neighborhood Electric Vehicle (NEV)),                                                                                                                                                                                                                                                                                                                                                      | NCSA BODY TYPE must equal 94 (Low Speed Vehicle (LSV)/Neighborhood Electric Vehicle (NEV)).                          |
| VP30            | vPIC BODY CLASS equals 124 (Off-road Vehicle - Golf Cart),                                                                                                                                                                                                                                                                                                                                                                                     | NCSA BODY TYPE must equal 95 (Golf Cart).                                                                            |
| VP31            | vPIC BODY CLASS equals 998 (Not Reported),                                                                                                                                                                                                                                                                                                                                                                                                     | NCSA BODY TYPE must equal 98 (Not Reported).                                                                         |



| <b>Error ID</b> | <b>IF</b>                                                                                                                                              | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| VP32            | <i>vPIC BODY CLASS equals 999 (Unknown),</i>                                                                                                           | <i>NCSA BODY TYPE must equal 09 (Other or Unknown Automobile Type), 19 (Utility Vehicle, Unknown Body Type), 29 (Unknown van type), 39 (Unknown (pickup style)), 48 (Unknown light truck type), 49 (Unknown light vehicle type), 59 (Unknown Bus Type), 78 (Unknown medium/heavy truck type), 79 (Unknown truck type (light/medium/heavy), 87 (Unknown Three Wheel Motorcycle Type), 89 (Unknown motored cycle type), or 99 (Unknown Body Type).</i>                                                                                                                                                                                                        |
| VP33            | <i>vPIC BODY CLASS equals 108 (Motorhome) or 078 (Incomplete - Motor Home Chassis) and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 13-18,</i>       | <i>NCSA BODY TYPE must equal 65 (Medium/Heavy Vehicle Based Motor Home) or 58 (Other Bus Type).</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| VP34            | <i>vPIC BODY CLASS equals 108 (Motorhome) or 078 (Incomplete - Motor Home Chassis) and POWER UNIT GVWR_From and POWER UNIT GVWR_To equal 11 or 12,</i> | <i>NCSA BODY TYPE must equal 42 (Light Vehicle Based Motor Home (chassis mounted)).</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| VP35            | <i>vPIC BODY CLASS equals 066 (Truck-Tractor),</i>                                                                                                     | <i>NCSA BODY TYPE must equal 66 (Truck-Tractor (Cab only or with any number of trailing units; any weight)).</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| VP36            | <i>vPIC BODY CLASS equals 111 (Step Van/Walk-in Van) and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 13-18,</i>                                     | <i>NCSA BODY TYPE must equal 60 (Step Van (GVWR Greater than 10,000 lbs.)).</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| VP37            | <i>vPIC BODY CLASS equals 111 (Step Van/Walk-in Van) and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 11 or 12,</i>                                  | <i>NCSA BODY TYPE must equal 22 (Step Van or Walk-In Van (GVWR less than or equal to 10,000 lbs.)).</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| VP38            | <i>vPIC BODY CLASS equals 011 (Truck), and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 13-18,</i>                                                   | <i>NCSA BODY TYPE must equal 61 (Single-Unit Straight Truck or Cab-chassis (GVWR range 10,001 to 19,500 lbs.)), 62 (Single-Unit Straight Truck or Cab-chassis (GVWR range 19,501 to 26,000 lbs.)), 63 (Single-Unit Straight Truck or Cab-chassis (GVWR greater than 26,000 lbs.)), 64 (Single-Unit Straight Truck or Cab-Chassis (GVWR unknown)), 67 (Medium/Heavy Pickup (GVWR greater than 10,000 lbs.)), 71 (Unknown if single-unit or combination unit Medium Truck (GVWR range 10,001 lbs. to 26,000 lbs.)), 72 (Unknown if single-unit or combination unit Heavy Truck (GVWR greater than 26,000 lbs.)), or 78 (Unknown medium/heavy truck type).</i> |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                            | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <b>VP39</b>     | <b><i>vPIC BODY CLASS equals 074 (Incomplete - Chassis Cab (Number of Cab Unknown)), 070 (Incomplete - Chassis Cab (Double Cab)), 063 (Incomplete - Chassis Cab (Single Cab)), 112 (Incomplete - Commercial Chassis), 067 (Incomplete - Stripped Chassis), 065 (Incomplete), 064 (Incomplete - Glider), 062 (Incomplete - Cutaway) and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 13-18,</i></b> | <b><i>NCSA BODY TYPE must equal 50 (School Bus), 51 (Cross Country/Intercity Bus), 52 (Transit Bus (City Bus)), 55 (Van-Based Bus GVWR greater than 10,000 lbs.), 58 (Other Bus Type), 59 (Unknown Bus Type), 60 (Step Van (GVWR greater than 10,000 lbs.)), 61 (Single-Unit Straight Truck or Cab-chassis (GVWR range 10,001 to 19,500 lbs.)), 62 (Single-Unit Straight Truck or Cab-chassis (GVWR range 19,501 to 26,000 lbs.)), 63 (Single-Unit Straight Truck or Cab-chassis (GVWR greater than 26,000 lbs.)), 64 (Single-Unit Straight Truck or Cab-Chassis (GVWR unknown)), 65 (Medium/Heavy Vehicle Based Motor Home), 66 (Truck-tractor (Cab only or with any number of trailing units; any weight)), 67 (Medium/Heavy Pickup (GVWR greater than 10,000 lbs.)), 71 (Unknown if single-unit or combination unit Medium Truck (GVWR range 10,001 lbs. to 26,000 lbs.)), 72 (Unknown if single-unit or combination unit Heavy Truck (GVWR greater than 26,000 lbs.)), 78 (Unknown medium/heavy truck type), or 99 (Unknown Body Type).</i></b> |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                     | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| <b>VP40</b>     | <b>vPIC BODY CLASS equals 074 (Incomplete - Chassis Cab (Number of Cab Unknown)), 070 (Incomplete - Chassis Cab (Double Cab)), 063 (Incomplete - Chassis Cab (Single Cab)), 112 (Incomplete - Commercial Chassis), 067 (Incomplete - Stripped Chassis), 065 (Incomplete), 064 (Incomplete - Glider), 062 (Incomplete - Cutaway) and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 11-12,</b> | <b>NCSA BODY TYPE must equal 01 (Convertible (excludes sunroof, t-bar)), 02 (2-Door Sedan, Hardtop, Coupe), 03 (3-Door/2-Door Hatchback), 04 (4-Door Sedan, Hardtop), 05 (5-Door/4-Door Hatchback), 06 (Station Wagon (excluding van and truck based), 07 (Hatchback, Number of Doors Unknown), 08 (Sedan/Hardtop, Number of Doors Unknown), 09 (Other or Unknown Automobile Type), 10 (Auto-Based Pickup), 11 (Auto-Based Panel), 12 (Large Limousine), 13 (Three-Wheel Automobile or Automobile Derivative), 14 (Compact Utility), 15 (Large Utility), 16 (Utility Station Wagon), 17 (3-Door Coupe), 19 (Utility Vehicle, Unknown Body Type), 20 (Minivan), 21 (Large Van), 22 (Step-van or walk-in van (GVWR less than or equal to 10,000 lbs.)), 28 (Other van type), 29 (Unknown Van Type), 33 (Convertible pickup), 34 (Light Pickup), 39 (Unknown (pickup style) light conventional truck type), 40 (Cab Chassis Based), 41 (Truck Based Panel), 45 (Other light conventional truck type), 48 (Unknown light truck type), 49 (Unknown light vehicle type).</b> |
| <b>VP41</b>     | <b>vPIC BODY CLASS equals 011 (Truck), and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 11-12,</b>                                                                                                                                                                                                                                                                                          | <b>NCSA BODY TYPE must equal 40 (Cab Chassis Based), 41 (Truck Based Panel), 45 (Other light conventional truck type), 48 (Unknown light truck type), or 49 (Unknown light vehicle type).</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>VP42</b>     | <b>vPIC BODY CLASS equals 060 (Pickup) and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 13-18,</b>                                                                                                                                                                                                                                                                                          | <b>NCSA BODY TYPE should equal 67 (Medium/Heavy Pickup (GVWR greater than 10,000 lbs.)).</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>VP43</b>     | <b>vPIC BODY CLASS equals 060 (Pickup) and POWER UNIT GVWR_From and POWER UNIT GVWR_To equals 11 or 12,</b>                                                                                                                                                                                                                                                                                   | <b>NCSA BODY TYPE must equal 10 (Auto-Based Pickup), 33 (Convertible pickup), 34 (Light Pickup), or 39 (Unknown (pickup style) light conventional truck type).</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>VP44</b>     | <b>vPIC BODY CLASS equals 071 (Incomplete - School Bus Chassis) or 073 (Bus - School Bus),</b>                                                                                                                                                                                                                                                                                                | <b>NCSA BODY TYPE must equal 50 (School Bus).</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                        | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| <b>VP45</b>     | <b>vPIC BODY CLASS equals 009 (Van), 095 (Cargo Van), or 015 (Wagon), and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 13-18,</b>                                                                                                                                                                                              | <b>NCSA BODY TYPE must equal 55 (Van-Based Bus GVWR greater than 10,000 lbs.) or 61 (Single-Unit Straight Truck or Cab-chassis (GVWR range 10,001 to 19,500 lbs.)), 62 (Single-Unit Straight Truck or Cab-chassis (GVWR range 19,501 to 26,000 lbs.)), 63 (Single-Unit Straight Truck or Cab-chassis (GVWR greater than 26,000 lbs.)), or 64 (Single-Unit Straight Truck or Cab-Chassis (GVWR unknown)).</b>                                                                                 |
| <b>VP46</b>     | <b>vPIC BODY CLASS equals 009 (Van) or 095 (Cargo Van) and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 11 or 12,</b>                                                                                                                                                                                                          | <b>NCSA BODY TYPE must equal 06 (Station Wagon [excluding van and truck based]), 14 (Compact Utility), 20 (Minivan), 21 (Large Van), 28 (Other van type), or 29 (Unknown van type).</b>                                                                                                                                                                                                                                                                                                      |
| <b>VP47</b>     | <b>vPIC BODY CLASS equals 016 (Bus), 107 (Incomplete - Bus Chassis), 076 (Incomplete - Motor Coach Chassis), 077 (Incomplete - Shuttle Bus Chassis), 072 (Incomplete - Commercial Bus Chassis), 075 (Incomplete - Transit Bus Chassis), or 068 (Streetcar/Trolley) and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 13-18,</b> | <b>NCSA BODY TYPE must equal 51 (Cross Country/Intercity Bus), 52 (Transit Bus (City Bus)), 55 (Van-Based Bus GVWR greater than 10,000 lbs.), 58 (Other Bus Type), or 59 (Unknown Bus Type).</b>                                                                                                                                                                                                                                                                                             |
| <b>VP48</b>     | <b>vPIC BODY CLASS equals 002 (Minivan),</b>                                                                                                                                                                                                                                                                                     | <b>NCSA BODY TYPE must equal 20 (Minivan).</b>                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>VP49</b>     | <b>vPIC BODY CLASS equals 001 (Convertible/Cabriolet), 003 (Coupe), 013 (Sedan/Saloon), or 010 (Roadster),</b>                                                                                                                                                                                                                   | <b>NCSA BODY TYPE should equal 01 (Convertible (excludes sunroof, t-bar)), 02 (2-Door Sedan, Hardtop, Coupe), 03 (3-Door/2-Door Hatchback), 04 (4-Door Sedan, Hardtop), 05 (5-Door/4-Door Hatchback), 06 (Station Wagon (excluding van and truck based), 07 (Hatchback, Number of Doors Unknown), 08 (Sedan/Hardtop, Number of Doors Unknown), 09 (Other or Unknown Automobile Type), 11 (Auto-Based Panel), 13 (Three-Wheel Automobile or Automobile Derivative), or 17 (3-Door Coupe).</b> |
| <b>VP50</b>     | <b>vPIC BODY CLASS equals 117 (Limousine) and POWER UNIT GVWR_From and POWER UNIT GVWR_To equals 11 or 12,</b>                                                                                                                                                                                                                   | <b>NCSA BODY TYPE must equal 12 (Large Limousine) or 09 (Other or Unknown Automobile Type).</b>                                                                                                                                                                                                                                                                                                                                                                                              |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                     |
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| <b>VP51</b>     | <b>vPIC BODY CLASS equals 005 (Hatchback/Liftback/Notchback),</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>NCSA BODY TYPE must equal 03 (3-Door/2-Door Hatchback), 05 (5-Door/4-Door Hatchback), 06 (Station Wagon (excluding van and truck based), 07 (Hatchback, Number of Doors Unknown), 09 (Other or Unknown Automobile Type), 14 (Compact Utility), 19 (Utility Vehicle, Unknown Body Type), 20 (Minivan), 21 (Large Van), 48 (Unknown light truck type), or 49 (Unknown light vehicle type).</b> |
| <b>VP52</b>     | <b>vPIC BODY CLASS equals 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 008 (Crossover Utility Vehicle (CUV)), or 119 (Sport Utility Truck (SUT)) and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 11 or 12,</b>                                                                                                                                                                                                                                                                                                                                                                                     | <b>NCSA BODY TYPE must equal 05 (5-Door/4-Door Hatchback), 06 (Station Wagon (excluding van and truck based )), 14 (Compact Utility), 15 (Large Utility), 16 (Utility Station Wagon), 19 (Utility Vehicle, Unknown Body Type), 34 (Light Pickup), 48 (Unknown light truck type), or 49 (Unknown light vehicle type [automobile, utility, van, or light truck]).</b>                             |
| <b>VP53</b>     | <b>NCSA BODY TYPE equals 92 (Farm Equipment Other Than Trucks),</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>vPIC BODY CLASS must equal 126 (Off-road Vehicle - Farm Equipment).</b>                                                                                                                                                                                                                                                                                                                      |
| <b>VP54</b>     | <b>NCSA BODY TYPE equals 93 (Construction Equipment Other Than Trucks),</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>vPIC BODY CLASS must equal 127 (Off-road Vehicle - Construction Equipment).</b>                                                                                                                                                                                                                                                                                                              |
| <b>VP55</b>     | <b>vPIC BODY CLASS equals 062 (Incomplete - Cutaway), 063 (Incomplete - Chassis Cab (Single Cab)), 064 (Incomplete - Glider), 065 (Incomplete), 067 (Incomplete - Stripped Chassis), 070 (Incomplete - Chassis Cab (Double Cab), 071 (Incomplete - School Bus Chassis), 072 (Incomplete - Commercial Bus Chassis), 074 (Incomplete - Chassis Cab (Number of Cab Unknown)), 075 (Incomplete - Transit Bus Chassis), 076 (Incomplete - Motor Coach Chassis), 077 (Incomplete - Shuttle Bus Chassis), 078 (Incomplete - Motor Home Chassis), 107 (Incomplete - Bus Chassis), or 112 (Incomplete - Commercial Chassis),</b> | <b>FINAL STAGE BODY CLASS must not equal 000 (Not Applicable).</b>                                                                                                                                                                                                                                                                                                                              |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                        | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <b>VP56</b>     | <b>vPIC BODY CLASS equals 016 (Bus), 107 (Incomplete - Bus Chassis), 076 (Incomplete - Motor Coach Chassis), 077 (Incomplete - Shuttle Bus Chassis), 072 (Incomplete - Commercial Bus Chassis), 075 (Incomplete - Transit Bus Chassis), or 068 (Streetcar/Trolley) and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 11-12,</b> | <b>NCSA BODY TYPE must equal 21 (Large Van).</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>VP57</b>     | <b>vPIC BODY CLASS equals 117 (Limousine) and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 13-18,</b>                                                                                                                                                                                                                          | <b>NCSA BODY TYPE must equal 50 (School Bus), 51 (Cross Country/Intercity Bus), 52 (Transit Bus (City Bus)), 55 (Van-Based Bus GVWR greater than 10,000 lbs.), 58 (Other Bus Type), 59 (Unknown Bus Type), 60 (Step Van (GVWR greater than 10,000 lbs.)), 61 (Single-Unit Straight Truck or Cab-chassis (GVWR range 10,001 to 19,500 lbs.)), 62 (Single-Unit Straight Truck or Cab-chassis (GVWR range 19,501 to 26,000 lbs.)), 63 (Single-Unit Straight Truck or Cab-chassis (GVWR greater than 26,000 lbs.)), 64 (Single-Unit Straight Truck or Cab-Chassis (GVWR unknown)), 66 (Truck-tractor (Cab only or with any number of trailing units; any weight)), 67 (Medium/Heavy Pickup (GVWR greater than 10,000 lbs.)), 71 (Unknown if single-unit or combination unit Medium Truck (GVWR range 10,001 lbs. to 26,000 lbs.)), 72 (Unknown if single-unit or combination unit Heavy Truck (GVWR greater than 26,000 lbs.)), 78 (Unknown medium/heavy truck type), 79 (Unknown truck type (light/medium/heavy)).</b> |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                           | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>VP58</b>     | <b>vPIC BODY CLASS equals 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 008 (Crossover Utility Vehicle (CUV), or 119 (Sport Utility Truck (SUT) and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 13-18,</b>      | <b>NCSA BODY TYPE must equal 50 (School Bus), 51 (Cross Country/Intercity Bus), 52 (Transit Bus (City Bus)), 55 (Van-Based Bus GVWR greater than 10,000 lbs.), 58 (Other Bus Type), 59 (Unknown Bus Type), 60 (Step Van (GVWR greater than 10,000 lbs.)), 61 (Single-Unit Straight Truck or Cab-chassis (GVWR range 10,001 to 19,500 lbs.)), 62 (Single-Unit Straight Truck or Cab-chassis (GVWR range 19,501 to 26,000 lbs.)), 63 (Single-Unit Straight Truck or Cab-chassis (GVWR greater than 26,000 lbs.)), 64 (Single-Unit Straight Truck or Cab-Chassis (GVWR unknown)), 66 (Truck-tractor (Cab only or with any number of trailing units; any weight)), 67 (Medium/Heavy Pickup (GVWR greater than 10,000 lbs.)), 71 (Unknown if single-unit or combination unit Medium Truck (GVWR range 10,001 lbs. to 26,000 lbs.)), 72 (Unknown if single-unit or combination unit Heavy Truck (GVWR greater than 26,000 lbs.)), 78 (Unknown medium/heavy truck type), 79 (Unknown truck type (light/medium/heavy), or 99 (Unknown Body Type).</b> |
| <b>VP59</b>     | <b>vPIC BODY CLASS equals 072 (Incomplete - Commercial Bus Chassis), 075 (Incomplete - Transit Bus Chassis), 076 (Incomplete - Motor Coach Chassis), 077 (Incomplete - Shuttle Bus Chassis), or 107 (Incomplete - Bus Chassis),</b> | <b>FINAL STAGE BODY CLASS must equal 016 (Bus), 073 (Bus-School Bus), 997 (Other (Specify:)), 998 (Not Reported), or 999 (Unknown).</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>VP60</b>     | <b>vPIC BODY CLASS equals 071 (Incomplete - School Bus Chassis),</b>                                                                                                                                                                | <b>FINAL STAGE BODY CLASS must equal 073 (Bus-School Bus), 997 (Other (Specify:)), 998 (Not Reported), or 999 (Unknown).</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>VP61</b>     | <b>vPIC BODY CLASS equals 078 (Incomplete - Motor Home Chassis),</b>                                                                                                                                                                | <b>FINAL STAGE BODY CLASS must equal 108 (Motorhome), 997 (Other (Specify:)), 998 (Not Reported), or 999 (Unknown).</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>VP62</b>     | <b>FINAL STAGE BODY CLASS equals 011 (Truck), 060 (Pickup), or 066 (Truck-Tractor),</b>                                                                                                                                             | <b>vPIC BODY CLASS must equal 062 (Incomplete - Cutaway), 063 (Incomplete - Chassis Cab (Single Cab)), 064 (Incomplete - Glider), 065 (Incomplete), 067 (Incomplete - Stripped Chassis), 070 (Incomplete - Chassis Cab (Double Cab)), 074 (Incomplete - Chassis Cab (Number of Cab Unknown)), or 112 (Incomplete - Commercial Chassis).</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                       | <b>THEN</b>                                                                                                                                                                                                                                                                                                                |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>VP63</b>     | <b><i>FINAL STAGE BODY CLASS equals 004 (Low Speed Vehicle (LSV)),</i></b>                                                                                                                                                                      | <b><i>vPIC BODY CLASS should not equal 063 (Incomplete - Chassis Cab (Single Cab)), 070 (Incomplete - Chassis Cab (Double Cab)), 071 (Incomplete - School Bus Chassis), 074 (Incomplete - Chassis Cab (Number of Cab Unknown)), 076 (Incomplete - Motor Coach Chassis).</i></b>                                            |
| <b>VP64</b>     | <b><i>FINAL STAGE BODY CLASS equals 009 (Van), 015 (Wagon), 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 008 (Crossover Utility Vehicle (CUV)), 068 (Streetcar/Trolley), 095 (Cargo Van), 111 (Step Van/Walk-in Van),</i></b> | <b><i>vPIC BODY CLASS should not equal 071 (Incomplete - School Bus Chassis), 076 (Incomplete - Motor Coach Chassis), or 078 (Incomplete - Motor Home Chassis).</i></b>                                                                                                                                                    |
| <b>VP65</b>     | <b><i>FINAL STAGE BODY CLASS equals 117 (Limousine),</i></b>                                                                                                                                                                                    | <b><i>vPIC BODY CLASS should not equal 063 (Incomplete - Chassis Cab (Single Cab)), 070 (Incomplete - Chassis Cab (Double Cab)), 071 (Incomplete - School Bus Chassis), 074 (Incomplete - Chassis Cab (Number of Cab Unknown)), 075 (Incomplete - Transit Bus Chassis), or 077 (Incomplete - Shuttle Bus Chassis).</i></b> |



| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>THEN</b>                                                                                                                                             |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>VP66</b>     | <b>vPIC BODY CLASS equals 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport/Adventure/Supermoto/On/Off-Road), 086 (Off-road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 088 (Off-road Vehicle - Go Kart), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 097 (Off-road Vehicle - Snowmobile), 098 (Motorcycle - Street), 100 (Motorcycle - Enclosed Three Wheeled/Enclosed Autocycle), 103 (Motorcycle - Unenclosed Three Wheeled/Open Autocycle), 104 (Motorcycle - Moped), 105 (Off-road Vehicle - Recreational Off-Road Vehicle (ROV)), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motocross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 124 (Off-road Vehicle - Golf Cart), or 125 (Motorcycle - Unknown Body Type),</b> | <b>POWER UNIT GVWR_From and POWER UNIT GVWR_To must equal 11 or 99.</b>                                                                                 |
| <b>VP67</b>     | <b>vPIC BODY CLASS equals 001 (Convertible/Cabriolet), 003 (Coupe), 005 (Hatchback/Liftback/Notchback), 010 (Roadster), or 013 (Sedan/Saloon)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>POWER UNIT GVWR_From and POWER UNIT GVWR_To must equal 11 or 12.</b>                                                                                 |
| <b>VP68</b>     | <b>vPIC BODY CLASS equals 002 (Minivan), 008 (Crossover Utility Vehicle (CUV)), or 119 (Sport Utility Truck (SUT)),</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>POWER UNIT GVWR_From and POWER UNIT GVWR_To must equal 11, 12, 98, or 99.</b>                                                                        |
| <b>VP69</b>     | <b>vPIC BODY CLASS equals 060 (Pickup) or 095 (Cargo Van),</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>POWER UNIT GVWR_From and POWER UNIT GVWR_To should equal 11, 12, 13, 14, 98, or 99.</b>                                                              |
| <b>VP70</b>     | <b>TRAILER VEHICLE IDENTIFICATION NUMBER is valid and decodes with error code only in 0, 1, or 400,</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>TRAILER VEHICLE IDENTIFICATION NUMBER decoded vPIC BODY CLASS must equal 061 (Trailer), 116 (Incomplete - Trailer Chassis), or 065 (Incomplete).</b> |
| <b>VP84</b>     | <b>vPIC BODY CLASS equals 073, 066, or 068</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>MOTOR CARRIER IDENTIFICATION NUMBER, VEHICLE CONFIGURATION, and CARGO BODY TYPE must not equal 00.</b>                                               |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>VP87</b>     | <b>vPIC BODY CLASS equals 006 (Motorcycle – Standard), 012 (Motorcycle – Scooter), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring / Sport Touring ), 082 (Motorcycle - Cruiser ), 083 (Motorcycle – Trike), 084 (Off-road Vehicle - Dirt Bike / Off-Road), 085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road), 086 (Off-road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small / Minibike), 088 (Off-road Vehicle - Go Kart), 090 (Motorcycle - Side Car), 094 (Motorcycle – Custom), 097 (Off-road Vehicle – Snowmobile), 098 (Motorcycle – Street), 104 (Motorcycle – Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle – Underbone), 113 (Off-road Vehicle - Motocross (Off-road short distance, closed track racing)), 114 (Motorcycle – Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle),</b> | <b>VEHICLE UNDERRIDE/OVERRIDE must equal 7.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>VP88</b>     | <b>UNDERRIDE/OVERRIDE equals 1 or 2,</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>vPIC BODY CLASS must not equal 006 (Motorcycle – Standard), 012 (Motorcycle – Scooter), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring / Sport Touring ), 082 (Motorcycle - Cruiser ), 083 (Motorcycle – Trike), 084 (Off-road Vehicle - Dirt Bike / Off-Road), 085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road), 086 (Off-road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small / Minibike), 088 (Off-road Vehicle - Go Kart), 090 (Motorcycle - Side Car), 094 (Motorcycle – Custom), 097 (Off-road Vehicle – Snowmobile), 098 (Motorcycle – Street), 104 (Motorcycle – Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle – Underbone), 113 (Off-road Vehicle - Motocross (Off-road short distance, closed track racing)), 114 (Motorcycle – Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle).</b> |
| <b>VP89</b>     | <b>VPIC BODY CLASS equals 997,</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>NCSA BODY TYPE should be 09 or 97.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

| <b>Error ID</b> | <b>IF</b>                                                                                               | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>VP90</b>     | <b>vPIC BODY CLASS equals 015 (Wagon), and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 11 or 12,</b> | <b>NCSA BODY TYPE must equal code 03 (3-Door/2-Door Hatchback), 05 (5-Door/4-Door Hatchback), 06 (Station Wagon (excluding van and truck based)), 09 (Other or Unknown Automobile Type), 14 (Compact Utility), 15 (Large Utility), 16 (Utility Station Wagon), 20 (Minivan), 19 (Utility Vehicle, Unknown Body Type), 21 (Large Van), 28 (Other van type), 29 (Unknown van type), 48 (Unknown light truck type), or 49 (Unknown light vehicle type).</b> |

**Consistency Checks (CRSS Only) ([See Section 400](#)):**

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                     | <b>THEN</b> |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| <b>U361</b>     | <b>UNLIKELY: HIT-AND-RUN equals 1, and vPIC BODY CLASS is not equal to 069, 084, 086, 088, 097, 105, 113, 124, 126, 127, and VEHICLE LICENSE PLATE NUMBER is equal to 0s.</b> | --          |

**V14 - NCSA Make****FORMAT:** 2 numeric**SAS NAME:** Vehicle.MAKE, Person.MAKE, Parkwork.PMAKE**ELEMENT VALUES:**

| Codes | Attributes                                   | Codes | Attributes                                       | Codes | Attributes                              |
|-------|----------------------------------------------|-------|--------------------------------------------------|-------|-----------------------------------------|
| 01    | <a href="#">American Motors</a>              | 47    | <a href="#">Saab</a>                             | 89    | <a href="#">White/Autocar White/GMC</a> |
| 02    | <a href="#">Jeep/Kaiser-Jeep/Willys-Jeep</a> | 48    | <a href="#">Subaru</a>                           | 90    | <a href="#">Bluebird</a>                |
| 03    | <a href="#">AM General</a>                   | 49    | <a href="#">Toyota</a>                           | 91    | <a href="#">Eagle Coach</a>             |
| 06    | <a href="#">Chrysler</a>                     | 50    | <a href="#">Triumph</a>                          | 92    | <a href="#">Gillig</a>                  |
| 07    | <a href="#">Dodge</a>                        | 51    | <a href="#">Volvo</a>                            | 93    | <a href="#">MCI</a>                     |
| 08    | <a href="#">Imperial</a>                     | 52    | <a href="#">Mitsubishi</a>                       | 94    | <a href="#">Thomas Built</a>            |
| 09    | <a href="#">Plymouth</a>                     | 53    | <a href="#">Suzuki</a>                           | 97    | <a href="#">Not Reported</a>            |
| 10    | <a href="#">Eagle</a>                        | 54    | <a href="#">Acura</a>                            | 98    | <a href="#">Other Make</a>              |
| 12    | <a href="#">Ford</a>                         | 55    | <a href="#">Hyundai</a>                          | 99    | <a href="#">Unknown Make</a>            |
| 13    | <a href="#">Lincoln</a>                      | 56    | <a href="#">Merkur</a>                           |       |                                         |
| 14    | <a href="#">Mercury</a>                      | 57    | <a href="#">Yugo</a>                             |       |                                         |
| 18    | <a href="#">Buick/Opel</a>                   | 58    | <a href="#">Infiniti</a>                         |       |                                         |
| 19    | <a href="#">Cadillac</a>                     | 59    | <a href="#">Lexus</a>                            |       |                                         |
| 20    | <a href="#">Chevrolet</a>                    | 60    | <a href="#">Daihatsu</a>                         |       |                                         |
| 21    | <a href="#">Oldsmobile</a>                   | 61    | <a href="#">Sterling</a>                         |       |                                         |
| 22    | <a href="#">Pontiac</a>                      | 62    | <a href="#">Land Rover</a>                       |       |                                         |
| 23    | <a href="#">GMC</a>                          | 63    | <a href="#">Kia</a>                              |       |                                         |
| 24    | <a href="#">Saturn</a>                       | 64    | <a href="#">Daewoo</a>                           |       |                                         |
| 25    | <a href="#">Grumman</a>                      | 65    | <a href="#">Smart</a>                            |       |                                         |
| 26    | <a href="#">Coda</a>                         | 67    | <a href="#">Scion</a>                            |       |                                         |
| 29    | <a href="#">Other Domestic Manufacturers</a> | 69    | <a href="#">Other Import</a>                     |       |                                         |
| 30    | <a href="#">Volkswagen</a>                   | 70    | <a href="#">BSA</a>                              |       |                                         |
| 31    | <a href="#">Alfa Romeo</a>                   | 71    | <a href="#">Ducati</a>                           |       |                                         |
| 32    | <a href="#">Audi</a>                         | 72    | <a href="#">Harley-Davidson</a>                  |       |                                         |
| 33    | <a href="#">Austin/Austin Healey</a>         | 73    | <a href="#">Kawasaki</a>                         |       |                                         |
| 34    | <a href="#">BMW</a>                          | 74    | <a href="#">Moto-Guzzi</a>                       |       |                                         |
| 35    | <a href="#">Nissan/Datsun</a>                | 75    | <a href="#">Norton</a>                           |       |                                         |
| 36    | <a href="#">Fiat</a>                         | 76    | <a href="#">Yamaha</a>                           |       |                                         |
| 37    | <a href="#">Honda</a>                        | 77    | <a href="#">Victory</a>                          |       |                                         |
| 38    | <a href="#">Isuzu</a>                        | 80    | <a href="#">Brockway</a>                         |       |                                         |
| 39    | <a href="#">Jaguar</a>                       | 81    | <a href="#">Diamond Reo/Reo</a>                  |       |                                         |
| 40    | <a href="#">Lancia</a>                       | 82    | <a href="#">Freightliner</a>                     |       |                                         |
| 41    | <a href="#">Mazda</a>                        | 83    | <a href="#">FWD</a>                              |       |                                         |
| 42    | <a href="#">Mercedes-Benz</a>                | 84    | <a href="#">International Harvester/Navistar</a> |       |                                         |
| 43    | <a href="#">MG</a>                           | 85    | <a href="#">Kenworth</a>                         |       |                                         |
| 44    | <a href="#">Peugeot</a>                      | 86    | <a href="#">Mack</a>                             |       |                                         |
| 45    | <a href="#">Porsche</a>                      | 87    | <a href="#">Peterbilt</a>                        |       |                                         |
| 46    | <a href="#">Renault</a>                      | 88    | <a href="#">Iveco/Magirus</a>                    |       |                                         |

**Definition:** This element identifies the make (manufacturer) of this vehicle *by NHTSA historically*.

**Remarks:** SEE ADDITIONAL REMARKS UNDER [vPIC MAKE / vPIC MODEL / vPIC BODY CLASS OVERVIEW](#).

*Historically NCSA MAKE attributes are organized into general groups. These groups are:*

| <i>Codes</i> | <i>Attributes</i>                                                     |
|--------------|-----------------------------------------------------------------------|
| <b>01-28</b> | <b><i>Domestic Passenger Car</i></b>                                  |
| <b>29</b>    | <b><i>Other Domestic Passenger Car</i></b>                            |
| <b>30-67</b> | <b><i>Import Passenger Car</i></b>                                    |
| <b>69</b>    | <b><i>Other Import Passenger Car</i></b>                              |
| <b>70-77</b> | <b><i>Motored Cycle/Moped</i></b>                                     |
| <b>80-89</b> | <b><i>Truck/Bus</i></b>                                               |
| <b>90-94</b> | <b><i>Bus</i></b>                                                     |
| <b>97</b>    | <b><i>Not Reported</i></b>                                            |
| <b>98</b>    | <b><i>Other Make (where MAKE “29” or “69” are not applicable)</i></b> |
| <b>99</b>    | <b><i>Unknown Make</i></b>                                            |

Note that for both **NCSA MAKE** and **NCSA MODEL**, the use of the terms “other” and “unknown” have very specific meanings. “Other” refers to a make or model that is known but is not explicitly listed. “Unknown” refers to the situation where no specific make or model is known. Examples: **399 (Unknown (Automobile))**, **499 (Unknown (Light Truck))**, **739 (Unknown cc (ATV))**, **884 (Medium/Heavy Truck - Unknown Engine Location)**, **999 (Unknown)**.

Selection of the proper “other” or “unknown” code can only be made with consideration of the vehicle’s [NCSA BODY TYPE](#). For example, if a medium/heavy truck or bus make is known and is not listed, **NCSA MAKE** is coded **Other Make (med/heavy truck/bus or “other”)** and the appropriate model code is used. If the make is unknown but the body type is known as a “school bus,” for instance, **NCSA MAKE** is coded **99 (Unknown Make)** and **NCSA MODEL** is coded **989 (Unknown (Bus))**.

**97 (Not Reported) Code Not Reported only when vPIC MAKE, vPIC MODEL, vPIC BODY CLASS, NCSA MAKE, NCSA MODEL, NCSA BODY TYPE, and VEHICLE MODEL YEAR are ALL Not Reported. If you have partial information, see [99 \(Unknown Make\)](#).**

If a State’s crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered “**Not Reported**.”

Code **97 (Not Reported)** in these two situations:

1. No field or coding block exists on the State’s crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).

2. A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

**99 (Unknown Make)** is used when the vehicle is reported as Unknown unless reliable evidence indicates the vehicle's make. *If any detail is known regarding the vehicle's MAKE / MODEL/BODY / MODEL YEAR, code what is known and then code the other elements as Unknown.*

Please refer to the Appendix [Alphabetical Listing of NCSA Makes](#);

Please refer to the Appendix [Numerical Listing of NCSA Makes](#).

Consistency Checks ([See Section 400](#)):

| Error ID | IF                                                                                                                                                                                                                                                                    | THEN                                                                                                                                                                               |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 920P     | any one of the fields <b>NCSA MAKE</b> , <b>NCSA MODEL</b> , <b>NCSA BODY TYPE</b> , and <b>VEHICLE MODEL YEAR</b> , equals Not Reported [ <b>NCSA MAKE</b> (97), <b>NCSA MODEL</b> (997), <b>NCSA BODY TYPE</b> (98), and <b>VEHICLE MODEL YEAR</b> (9998)],         | the other three must also equal Not Reported.                                                                                                                                      |
| 921P     | <b>NCSA MAKE</b> is not 97, 98, 99, and equals ____, and <b>NCSA MODEL</b> equals ____,                                                                                                                                                                               | <b>VEHICLE MODEL YEAR</b> must equal ____, or CRASH YEAR plus 1.                                                                                                                   |
| 930P     | any one of the fields <b>NCSA MAKE</b> , <b>NCSA MODEL</b> , <b>NCSA BODY TYPE</b> , and <b>VEHICLE MODEL YEAR</b> , does not equal Not Reported [ <b>NCSA MAKE</b> (97), <b>NCSA MODEL</b> (997), <b>NCSA BODY TYPE</b> (98), and <b>VEHICLE MODEL YEAR</b> (9998)], | the other three must also not be coded as Not Reported.                                                                                                                            |
| 960P     | <b>NCSA MAKE</b> is not 98, 99, and equals ____, and <b>NCSA MODEL</b> equals ____,                                                                                                                                                                                   | <b>NCSA BODY TYPE</b> must equal ____ ( <b>NCSA MAKE</b> , <b>NCSA MODEL</b> , and <b>NCSA BODY TYPE</b> must be valid according to Vehicle Tables).                               |
| V922     | <b>NCSA MAKE</b> equals 98, 99, and <b>NCSA MODEL</b> equals ____,                                                                                                                                                                                                    | <b>VEHICLE MODEL YEAR</b> should equal ____ ( <b>NCSA MODEL</b> and <b>VEHICLE MODEL YEAR</b> should be valid according to Vehicle Tables).                                        |
| V961     | <b>NCSA MAKE</b> equals 98, 99, and <b>NCSA MODEL</b> equals ____,                                                                                                                                                                                                    | <b>NCSA BODY TYPE</b> should equal ____ ( <b>NCSA MODEL</b> and <b>NCSA BODY TYPE</b> should be valid according to the Vehicle Tables).                                            |
| VP03     | <b>VEHICLE IDENTIFICATION NUMBER</b> decodes with error code only in (1, 400),                                                                                                                                                                                        | <b>VPIC MAKE</b> , <b>VPIC MODEL</b> , <b>VPIC BODY CLASS</b> , <b>NCSA MAKE</b> , <b>NCSA MODEL</b> , and <b>NCSA BODY TYPE</b> must equal the corresponding decoded data values. |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                             | <b>THEN</b>                                                                                                                                                                                                          |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>VP04</b>     | <b><i>any one of the fields vPIC MAKE, vPIC MODEL, vPIC BODY CLASS, VEHICLE MODEL YEAR, NCSA MAKE, NCSA MODEL, and NCSA BODY TYPE equals Not Reported (vPIC MAKE [99998], vPIC MODEL [99998], vPIC BODY CLASS [998], VEHICLE MODEL YEAR [9998], NCSA MAKE [97], NCSA MODEL [997], NCSA BODY TYPE [98])</i></b>        | <b><i>the other six must also equal Not Reported (vPIC MAKE [99998], vPIC MODEL [99998], vPIC BODY CLASS [998], VEHICLE MODEL YEAR [9998], NCSA MAKE [97], NCSA MODEL [997], NCSA BODY TYPE [98]).</i></b>           |
| <b>VP06</b>     | <b><i>any one of the fields vPIC MAKE, vPIC MODEL, vPIC BODY CLASS, VEHICLE MODEL YEAR, NCSA MAKE, NCSA MODEL and NCSA BODY TYPE does not equal Not Reported (vPIC MAKE [99998], vPIC MODEL [99998], vPIC BODY CLASS [998], VEHICLE MODEL YEAR [9998], NCSA MAKE [97], NCSA MODEL [997], NCSA BODY TYPE [98])</i></b> | <b><i>the other six must also not be coded as Not Reported (vPIC MAKE [99998], vPIC MODEL [99998], vPIC BODY CLASS [998], VEHICLE MODEL YEAR [9998], NCSA MAKE [97], NCSA MODEL [997], NCSA BODY TYPE [98]).</i></b> |
| <b>VP10</b>     | <b><i>vPIC MAKE equals 99997</i></b>                                                                                                                                                                                                                                                                                  | <b><i>NCSA MAKE must equal 98 (Other Make).</i></b>                                                                                                                                                                  |
| <b>VP11</b>     | <b><i>vPIC MAKE equals 99999</i></b>                                                                                                                                                                                                                                                                                  | <b><i>NCSA MAKE must equal 99 (Unknown Make).</i></b>                                                                                                                                                                |

**V15 - NCSA Model****FORMAT:** 3 numeric**SAS NAME:** Vehicle.MODEL, Person.MODEL, Parkwork.PMODEL**ELEMENT VALUES:**

| <b>Codes</b> | <b>Attributes</b>                                                       |
|--------------|-------------------------------------------------------------------------|
| 001-397      | Automobiles                                                             |
| 398          | Other (Automobile)                                                      |
| 399          | Unknown (Automobile)                                                    |
| 401-497      | Light Trucks                                                            |
| 498          | Other (Light Trucks)                                                    |
| 499          | Unknown (Light Trucks)                                                  |
| 598          | Other (Low Speed Vehicle (LSV) / Neighborhood Electric Vehicle (NEV))   |
| 599          | Unknown (Low Speed Vehicle (LSV) / Neighborhood Electric Vehicle (NEV)) |
| 701-706      | Motorcycles                                                             |
| 707          | Electric Motorcycle                                                     |
| 709          | Unknown cc (Motorcycles)                                                |
| 731-734      | All-Terrain Vehicles                                                    |
| 739          | Unknown cc (ATV)                                                        |
| 801-809      | Other Make (Medium/Heavy Trucks)                                        |
| 850          | Motor Home                                                              |
| 870          | Medium/Heavy Van-Based Vehicle                                          |
| 880          | Medium/Heavy Pickup (pickup-style only - over 10,000 lbs.)              |
| 881          | Medium/Heavy Trucks - CBE                                               |
| 882          | Medium/Heavy Trucks - COE (low entry)                                   |
| 883          | Medium/Heavy Trucks - COE (high entry)                                  |
| 884          | Medium/Heavy Trucks - Unknown engine location                           |
| 890          | Medium/Heavy Trucks - COE (entry position unknown)                      |
| 898          | Other (Medium/Heavy Trucks)                                             |
| 901-908      | Other Make (Buses)                                                      |
| 981-987      | Buses                                                                   |
| 988          | Other (Bus)                                                             |
| 989          | Unknown (Bus)                                                           |
| 997          | <a href="#">Not Reported</a>                                            |



| Codes | Attributes              |
|-------|-------------------------|
| 998   | Other (Vehicle)         |
| 999   | <a href="#">Unknown</a> |

**Definition:** This element identifies the *NCSA* model of this vehicle within a given *NCSA* make.

**Remarks:** SEE ADDITIONAL REMARKS UNDER [vPIC MAKE / vPIC MODEL / vPIC BODY CLASS OVERVIEW](#).

*NCSA MODEL* refers to the series of vehicles for a make (e.g., Pintos, Galaxies, Mustangs are Models of Ford). It does not refer to the various styles within a model unless they are listed in the codes for *NCSA MODEL*.

*NCSA MODEL* attributes are organized into general groups. These groups are:

| Codes   | Attributes                                                                                                                                                                                                                   |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 001-399 | <i>Passenger Car (automobile)</i>                                                                                                                                                                                            |
| 400-499 | <i>Light Trucks (including truck-based utility vehicles, light duty pickup trucks, standard pickup trucks, vans, mini vans, van-based station wagons, van-based buses, van derivatives, and truck-based station wagons).</i> |
| 598     | <i>Low Speed Vehicle (LSV) / Neighborhood Electric Vehicle (NEV)</i>                                                                                                                                                         |
| 700-739 | <i>Motored Cycles (including motorcycles, mini-bikes, motor scooters, dirt bikes, and mopeds).</i>                                                                                                                           |
| 850     | <i>Motor Home</i>                                                                                                                                                                                                            |
| 870     | <i>Medium/Heavy Van-Based Vehicle</i>                                                                                                                                                                                        |
| 880-897 | <i>Trucks (including all trucks over 10,000 lbs. GVWR except those pickup type trucks mentioned under <a href="#">NCSA BODY TYPE</a> code 34 (Light Pickup)).</i>                                                            |
| 898     | <i>Other, Unknown, truck over 10,000 lbs. GVWR.</i>                                                                                                                                                                          |
| 980-996 | <i>All buses except those that are van-based.</i>                                                                                                                                                                            |
| 988     | <i>Other bus over 10,000 lbs. GVWR.</i>                                                                                                                                                                                      |
| 989     | <i>Unknown Bus</i>                                                                                                                                                                                                           |
| 997     | <i>Not Reported</i>                                                                                                                                                                                                          |
| 998     | <i>Other Vehicle</i>                                                                                                                                                                                                         |
| 999     | <i>Unknown Vehicle</i>                                                                                                                                                                                                       |

Note that for both *NCSA MAKE* and *NCSA MODEL*, the use of the terms “other” and “unknown” have very specific meanings. “Other” refers to a make or model that is known but is not explicitly listed. “Unknown” refers to the situation where no specific make or model is known. Examples: 399 (Unknown (Automobile)), 499 (Unknown (Light Trucks)), 739 (Unknown cc (ATV)), 884 (Medium/Heavy Trucks - Unknown Engine Location), 999 (Unknown).

Selection of the proper “other” or “unknown” code can only be made with consideration of the vehicle’s [NCSA BODY TYPE](#). For example, if a medium/heavy truck or bus make is known and is not listed, **NCSA MAKE** is coded **Other Make (med/heavy truck/bus or “other”)** and the appropriate model code is used. If the make is unknown but the body type is known as a “school bus,” for instance, **NCSA MAKE** is coded **99 (Unknown Make)** and **NCSA MODEL** is coded **989 (Unknown (Bus))**.

**997 (Not Reported) Code Not Reported only when vPIC MAKE, vPIC MODEL, vPIC BODY CLASS, NCSA MAKE, NCSA MODEL, NCSA BODY TYPE, and VEHICLE MODEL YEAR are ALL Not Reported. If you have partial information, see [999 \(Unknown\)](#).**

If a State’s crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered “**Not Reported**.”

Code **997 (Not Reported)** in these two situations:

1. No field or coding block exists on the State’s crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State’s crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State’s crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

**999 (Unknown) is used when the vehicle is reported as unknown unless reliable evidence indicates the vehicle’s model. If any detail is known regarding the vehicle’s NCSA MAKE / NCSA MODEL / NCSA BODY TYPE / VEHICLE MODEL YEAR, code what is known and then code the other elements as Unknown.**

**Consistency Checks [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                             | <b>THEN</b>                                                      |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| 920P            | any one of the fields <b>NCSA MAKE</b> , <b>NCSA MODEL</b> , <b>NCSA BODY TYPE</b> , and <b>VEHICLE MODEL YEAR</b> , equals Not Reported [ <b>NCSA MAKE</b> (97), <b>NCSA MODEL</b> (997), <b>NCSA BODY TYPE</b> (98), and <b>VEHICLE MODEL YEAR</b> (9998)],         | the other three must also equal Not Reported.                    |
| 921P            | <b>NCSA MAKE</b> is not 97, 98, 99, and equals ____, and <b>NCSA MODEL</b> equals ____,                                                                                                                                                                               | <b>VEHICLE MODEL YEAR</b> must equal ____, or CRASH YEAR plus 1. |
| 930P            | any one of the fields <b>NCSA MAKE</b> , <b>NCSA MODEL</b> , <b>NCSA BODY TYPE</b> , and <b>VEHICLE MODEL YEAR</b> , does not equal Not Reported [ <b>NCSA MAKE</b> (97), <b>NCSA MODEL</b> (997), <b>NCSA BODY TYPE</b> (98), and <b>VEHICLE MODEL YEAR</b> (9998)], | the other three must also not be coded as Not Reported.          |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                       | <b>THEN</b>                                                                                                                                                                                                                                              |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 960P            | <b>NCSA MAKE</b> is not 98, 99, and equals ____, and <b>NCSA MODEL</b> equals ____,                                                                                                                                                                                                                                                                                                                             | <b>NCSA BODY TYPE</b> must equal ____ ( <b>NCSA MAKE</b> , <b>NCSA MODEL</b> , and <b>NCSA BODY TYPE</b> must be valid according to Vehicle Tables).                                                                                                     |
| V922            | <b>NCSA MAKE</b> equals 98, 99, and <b>NCSA MODEL</b> equals ____,                                                                                                                                                                                                                                                                                                                                              | <b>VEHICLE MODEL YEAR</b> should equal ____ ( <b>NCSA MODEL</b> and <b>VEHICLE MODEL YEAR</b> should be valid according to Vehicle Tables).                                                                                                              |
| V961            | <b>NCSA MAKE</b> equals 98, 99, and <b>NCSA MODEL</b> equals ____,                                                                                                                                                                                                                                                                                                                                              | <b>NCSA BODY TYPE</b> should equal ____ ( <b>NCSA MODEL</b> and <b>NCSA BODY TYPE</b> should be valid according to the Vehicle Tables).                                                                                                                  |
| VP03            | <b>VEHICLE IDENTIFICATION NUMBER</b> decodes with error code only in (1, 400),                                                                                                                                                                                                                                                                                                                                  | <b>VPIC MAKE</b> , <b>VPIC MODEL</b> , <b>VPIC BODY CLASS</b> , <b>NCSA MAKE</b> , <b>NCSA MODEL</b> , and <b>NCSA BODY TYPE</b> must equal the corresponding decoded data values.                                                                       |
| VP04            | any one of the fields <b>vPIC MAKE</b> , <b>vPIC MODEL</b> , <b>vPIC BODY CLASS</b> , <b>VEHICLE MODEL YEAR</b> , <b>NCSA MAKE</b> , <b>NCSA MODEL</b> , and <b>NCSA BODY TYPE</b> equals Not Reported ( <b>vPIC MAKE</b> [99998], <b>vPIC MODEL</b> [99998], <b>vPIC BODY CLASS</b> [998], <b>VEHICLE MODEL YEAR</b> [9998], <b>NCSA MAKE</b> [97], <b>NCSA MODEL</b> [997], <b>NCSA BODY TYPE</b> [98])       | the other six must also equal Not Reported ( <b>vPIC MAKE</b> [99998], <b>vPIC MODEL</b> [99998], <b>vPIC BODY CLASS</b> [998], <b>VEHICLE MODEL YEAR</b> [9998], <b>NCSA MAKE</b> [97], <b>NCSA MODEL</b> [997], <b>NCSA BODY TYPE</b> [98]).           |
| VP06            | any one of the fields <b>vPIC MAKE</b> , <b>vPIC MODEL</b> , <b>vPIC BODY CLASS</b> , <b>VEHICLE MODEL YEAR</b> , <b>NCSA MAKE</b> , <b>NCSA MODEL</b> and <b>NCSA BODY TYPE</b> does not equal Not Reported ( <b>vPIC MAKE</b> [99998], <b>vPIC MODEL</b> [99998], <b>vPIC BODY CLASS</b> [998], <b>VEHICLE MODEL YEAR</b> [9998], <b>NCSA MAKE</b> [97], <b>NCSA MODEL</b> [997], <b>NCSA BODY TYPE</b> [98]) | the other six must also not be coded as Not Reported ( <b>vPIC MAKE</b> [99998], <b>vPIC MODEL</b> [99998], <b>vPIC BODY CLASS</b> [998], <b>VEHICLE MODEL YEAR</b> [9998], <b>NCSA MAKE</b> [97], <b>NCSA MODEL</b> [997], <b>NCSA BODY TYPE</b> [98]). |
| VP15            | <b>UNLIKELY: vPIC MODEL</b> equals 99997 and <b>NCSA MODEL</b> does not equal 398 (Other (Automobile)), 498 (Other (Light Trucks)), 598 (Other (Low Speed Vehicle (LSV)/Neighborhood Electric Vehicle (NEV))), 709 (Unknown cc (Motorcycles)), 739 (Unknown cc (ATV)), 898 (Other (Medium/Heavy Trucks)), 988 (Other (Bus)), or 998 (Other (Vehicle)).                                                          | --                                                                                                                                                                                                                                                       |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>THEN</b> |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| <b>VP16</b>     | <b><i>UNLIKELY: vPIC MODEL equals 99999 and NCSA MODEL does not equal 399 (Unknown (Automobile)), 499 (Unknown (Light Trucks)), 599 (Unknown (Low Speed Vehicle (LSV)/Neighborhood Electric Vehicle (NEV))), 709 (Unknown cc (Motorcycles)), 739 (Unknown cc (ATV)), 884 (Medium/Heavy Trucks - Unknown engine location), 898 (Other, Unknown, truck over 10,000 lbs. GVWR), 989 (Unknown (Bus)), or 999 (Unknown).</i></b> | --          |

## V16 - NCSA Body Type

**FORMAT:** 2 numeric

**SAS NAME:** *Vehicle.BODY\_TYP, Person.BODY\_TYP, Parkwork.PBODY\_TYP*

**ELEMENT VALUES:**

### Automobiles

| Codes | Attributes                                                    |
|-------|---------------------------------------------------------------|
| 01    | <a href="#">Convertible (excludes sunroof, t-bar)</a>         |
| 02    | <a href="#">2-Door Sedan, Hardtop, Coupe</a>                  |
| 03    | <a href="#">3-Door/2-Door Hatchback</a>                       |
| 04    | <a href="#">4-Door Sedan, Hardtop</a>                         |
| 05    | <a href="#">5-Door/4-Door Hatchback</a>                       |
| 06    | <a href="#">Station Wagon (excluding van and truck based)</a> |
| 07    | <a href="#">Hatchback, Number of Doors Unknown</a>            |
| 17    | <a href="#">3-Door Coupe</a>                                  |
| 08    | <a href="#">Sedan/Hardtop, Number of Doors Unknown</a>        |
| 09    | <a href="#">Other or Unknown Automobile Type</a>              |

### Automobile Derivatives

| Codes | Attributes                                                                                                                                                              |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10    | <a href="#">Auto-Based Pickup</a> (includes Chevrolet - El Camino, GMC -Caballero, Ford - Ranchero, Chevrolet - SSR; Subaru-Baha, Brat, and Volkswagen - Rabbit Pickup) |
| 11    | <a href="#">Auto-Based Panel</a> (Cargo Station Wagon, auto-based Ambulance/Hearse)                                                                                     |
| 12    | <a href="#">Large Limousine</a> (More than four side doors or stretched chassis)                                                                                        |
| 13    | <a href="#">Three-Wheel Automobile or Automobile Derivative</a>                                                                                                         |

## Utility Vehicles

| Codes | Attributes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14    | <p><a href="#">Compact Utility</a> (<a href="#">ANSI D16.1 Utility Vehicle Categories “Small” and “Midsize”</a>):</p> <ul style="list-style-type: none"> <li>• <b>Small:</b> Chevy-Tracker; GMC- Jimmy/Typhoon; Isuzu - Trooper II; Oldsmobile - Bravada (1991-94); Suzuki - Samurai, Sidekick.</li> <li>• <b>Midsize:</b> Acura - SLX, RDX; Alfa Romeo - Stelvio; AM General - Dispatcher, H3; Audi - Q3, Q5, Q7, Allroad, SQ5; BMW - X1, X2, X3, X5, X6; Buick - Rendezvous, Rainier, Encore, Envision; Cadillac - XT5; Chevrolet - Captiva, S10-Blazer/TrailBlazer, Tracker (1999 on), TrailBlazer (2003 on), Trax, Equinox; Daihatsu - Rocky; Dodge - Durango (1998-2003), Nitro, Raider; Fiat - 500L, 500X; Ford - Bronco II (1984 on), Escape, Explorer, Explorer Sport, EcoSport; GMC - Jimmy (1995 on), Envoy, Terrain; Honda - CRV, Passport, Element, HR-V; Hyundai - Santa Fe, Tucson, Veracruz (2007 only), Kona; Infiniti - QX4, JX35, QX60, QX70; Isuzu - Amigo, Axiom, Rodeo, Rodeo Sport, Vehicross, Trooper, Hombre; Jaguar - E-Pace, F-Pace, I-Pace; Jeep - Cherokee (1984 on), Commander, Grand Cherokee, Liberty, Patriot, Renegade, Wagoneer, Wrangler; Kia - Sportage, Sorento, Niro; Land Rover - Defender (1993, 1995-1997), Discovery, Discovery Sport, Freelander (2002-2003) Evogue; Lamborghini - Urus; Lexus - RX300, RX330, GX470, GX460, NX; Lincoln - Aviator, MKC; Mazda - CX-5, Navajo, Tribute; Maserati - Levante; Mercedes - M, ML, G, GLK, GLE, GLC; Mercury - Mariner, Mountaineer; Mitsubishi - Montero, Montero Sport, Endeavor, Eclipse Cross; Nissan - Juke, Pathfinder, Xterra; Oldsmobile - Bravada (1996 on); Pontiac - Aztek, Torrent; Porsche - Macan; Saab - 9-7x; Saturn - Vue; Subaru - B9 Tribeca, Forester, XV Crosstrek, Ascent; Suzuki - Vitara, Vitara V6, Grand Vitara, X-90, XL7; Tesla - Model X; Toyota - 4-Runner, FJ Cruiser, Highlander, RAV4, C-HR; Volkswagen - Tiguan, The Thing, Atlas; Volvo - XC70, XC90, XC40.</li> </ul> |
| 15    | <p><a href="#">Large utility</a> (<a href="#">ANSI D16.1 Utility Vehicle Categories and “Full Size” and “Large”</a>)</p> <ul style="list-style-type: none"> <li>• <b>Full Size:</b> Acura - MDX; AMC - Hummer; BMW - X5; Buick - Enclave (2013 on), Cadillac - Escalade; Chevrolet - Full-size Blazer, Suburban, Tahoe, Traverse (2013 on); Chrysler - Aspen, Dodge - Durango (2004 on), Ramcharger; Ford - Full-size Bronco (78 and after), Expedition; GMC - Full-size Jimmy/Yukon, Suburban/ Yukon XL, Acadia; Honda - Pilot; Hyundai - Veracruz (2008 on); Infiniti - QX56, QX80; Isuzu - Ascender; Jeep - Cherokee (83 and before); Kia Borrego; Land Rover - LR2, LR3, LR4, Freelander (2004 on), Range Rover, Discovery, Velar; Lexus - LX450/470/570; Lincoln - Navigator; Mazda - CX-9, Mercedes Benz - GL, GLS; Nissan - Armada; Plymouth - Trailduster; Porsche - Cayenne; Toyota - Land Cruiser, Sequoia; Volkswagen - Touareg.</li> <li>• <b>Large:</b> Avanti - Studebaker XUV; AMC -Hummer (H1, H2)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 16    | <p><a href="#">Utility station wagon</a> (includes suburban limousines), Cadillac - Escalade ESV; Chevrolet - Suburban (Yukon XL (2000 on), Travellall, Ford - Excursion, Jeep - Grand Wagoneer)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 19    | <p><a href="#">Utility Vehicle, Unknown Body Type</a></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

### Van-Based Light Trucks (GVWR less than or equal to 10,000 lbs)

| Codes | Attributes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 20    | <a href="#">Minivan</a> (AM General - MV-1; Buick - Terraza; Chevrolet - Astro, City Express, Lumina, Uplander, Venture; Chrysler - Town and Country, Voyager, Pacifica; Dodge - Vista Van, Caravan, Grand Caravan, RAM-C/V, Promater City; Ford - Aerostar, Windstar, Freestar, Transit Connect; GMC - Safari, Savana; Honda - Odyssey; Hyundai - Entourage; Isuzu - Oasis; Kia - Sedona; Mazda - MPV; Mercedes - Metris; Mercury - Monterey, Villager; Mitsubishi - Minivan; Nissan - Altra EV, Axxess, Quest, Van, NV200; Oldsmobile - Silhouette; Plymouth - Voyager, Grand Voyager, Vista; Pontiac - Transport, Montana; Saturn - Relay; Toyota - Minivan, Previa, Sienna; Volkswagen - Camper, Eurovan, Routan, Vanagon.) |
| 21    | <a href="#">Large Van</a> Includes van-based buses (B150-B350, Sportsman, Royal Maxiwagon, Ram, Tradesman, Voyager [83 and before], E150-E350, Econoline, Clubwagon, Chateau, G10-G30, Chevy Van, Beauville, Sport Van, G15-G35, Rally Van, Vandura, Ford - Transit, Freightliner - Sprinter/Advantage, Mercedes Benz -Sprinter, Dodge - Sprinter, RAM-Promaster, Nissan - NV, Ford - Transit)                                                                                                                                                                                                                                                                                                                                  |
| 22    | <a href="#">Step-van or walk-in van (GVWR less than or equal to 10,000 lbs.)</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 28    | <a href="#">Other van type</a> (Hi-Cube Van, Kary)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 29    | <a href="#">Unknown van type</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

### Light Conventional Trucks (Pickup style cab, GVWR less than or equal to 10,000 lbs)

| Codes | Attributes                                                           |
|-------|----------------------------------------------------------------------|
| 33    | <a href="#">Convertible pickup</a>                                   |
| 34    | <a href="#">Light Pickup</a>                                         |
| 39    | <a href="#">Unknown (pickup style)</a> light conventional truck type |

### Other Light Trucks (GVWR less than or equal to 10,000 lbs)

| Codes | Attributes                                                                                    |
|-------|-----------------------------------------------------------------------------------------------|
| 40    | <a href="#">Cab Chassis Based</a> (includes Rescue Vehicle, Light Stake, Dump, and Tow Truck) |
| 41    | <a href="#">Truck Based Panel</a>                                                             |
| 45    | <a href="#">Other light conventional truck type</a>                                           |
| 48    | <a href="#">Unknown light truck type</a>                                                      |
| 49    | <a href="#">Unknown light vehicle type</a> (automobile, utility vehicle, van, light truck)    |

**Buses (excludes van-based buses with a GVWR less than or equal to 10,000 lbs)**

| <b>Codes</b> | <b>Attributes</b>                                           |
|--------------|-------------------------------------------------------------|
| 50           | <a href="#">School Bus</a>                                  |
| 51           | <a href="#">Cross Country/Intercity Bus</a>                 |
| 52           | <a href="#">Transit Bus (City Bus)</a>                      |
| 55           | <a href="#">Van-Based Bus GVWR greater than 10,000 lbs.</a> |
| 58           | <a href="#">Other Bus Type</a>                              |
| 59           | <a href="#">Unknown Bus Type</a>                            |

**Medium/Heavy Trucks (GVWR greater than 10,000 lbs)**

| <b>Codes</b> | <b>Attributes</b>                                                                               |
|--------------|-------------------------------------------------------------------------------------------------|
| 60           | <a href="#">Step Van (GVWR greater than 10,000 lbs.)</a>                                        |
| 61           | <a href="#">Single-unit straight truck or Cab-Chassis</a> (GVWR range 10,001 to 19,500 lbs.)    |
| 62           | <a href="#">Single-unit straight truck or Cab-Chassis</a> (GVWR range 19,501 to 26,000 lbs.)    |
| 63           | <a href="#">Single-unit straight truck or Cab-Chassis</a> (GVWR greater than 26,000 lbs.)       |
| 64           | <a href="#">Single-unit straight truck or Cab-Chassis</a> (GVWR unknown)                        |
| 66           | <a href="#">Truck-tractor</a> (Cab only, or with any number of trailing units; any weight)      |
| 67           | <a href="#">Medium/Heavy Pickup</a> (GVWR greater than 10,000 lbs.)                             |
| 71           | Unknown if single-unit or combination unit Medium Truck (GVWR range 10,001 lbs. to 26,000 lbs.) |
| 72           | Unknown if single-unit or combination unit Heavy Truck (GVWR greater than 26,000 lbs.)          |
| 78           | <a href="#">Unknown medium/heavy truck type</a>                                                 |
| 79           | <a href="#">Unknown truck type</a> (light/medium/heavy)                                         |

**Motor Homes**

| <b>Codes</b> | <b>Attributes</b>                                                       |
|--------------|-------------------------------------------------------------------------|
| 42           | <a href="#">Light <b>Vehicle</b> Based Motor home</a> (Chassis Mounted) |
| 65           | <a href="#">Medium/Heavy <b>Vehicle</b> Based Motor Home</a>            |
| 73           | <a href="#">Camper or Motor Home, Unknown <b>GVWR</b></a>               |



### Motorcycles, Mopeds, All-Terrain Vehicles; All-Terrain Cycles

| Codes | Attributes                                                                               |
|-------|------------------------------------------------------------------------------------------|
| 80    | <a href="#">Two Wheel Motorcycle</a> (excluding motor scooters)                          |
| 81    | <a href="#">Moped or motorized bicycle</a>                                               |
| 82    | <a href="#">Three-wheel Motorcycle</a> (2 Rear Wheels)                                   |
| 83    | <a href="#">Off-Road Motorcycle</a>                                                      |
| 84    | <a href="#">Motor Scooter</a>                                                            |
| 85    | <a href="#">Unenclosed Three Wheel Motorcycle / Unenclosed Autocycle</a> (1 Rear Wheel)  |
| 86    | <a href="#">Enclosed Three Wheel Motorcycle / Enclosed Autocycle</a> (1 Rear Wheel)      |
| 87    | <a href="#">Unknown Three Wheel Motorcycle Type</a>                                      |
| 88    | <a href="#">Other motored cycle type</a> (mini-bikes, pocket motorcycles “pocket bikes”) |
| 89    | <a href="#">Unknown motored cycle type</a>                                               |
| 90    | <a href="#">ATV/ATC (All-Terrain Cycle)</a>                                              |

### Other Vehicles

| Codes | Attributes                                                                            |
|-------|---------------------------------------------------------------------------------------|
| 91    | <a href="#">Snowmobile</a>                                                            |
| 92    | <a href="#">Farm equipment</a> other than trucks                                      |
| 93    | <a href="#">Construction equipment</a> other than trucks (includes graders)           |
| 94    | <a href="#">Low Speed Vehicle (LSV) / Neighborhood Electric Vehicle (NEV)</a>         |
| 95    | <a href="#">Golf Cart</a>                                                             |
| 96    | <a href="#">Recreational Off-Highway Vehicle (ROV)</a>                                |
| 97    | <a href="#">Other vehicle type</a> (includes go-cart, fork-lift, city street sweeper) |

### Not Reported and Unknown Body Type

| Codes | Attributes                        |
|-------|-----------------------------------|
| 98    | <a href="#">Not Reported</a>      |
| 99    | <a href="#">Unknown Body Type</a> |

**Definition:** This element identifies a classification of this vehicle based on its general body configuration, size, shape, doors, etc.

**Remarks:** SEE ADDITIONAL REMARKS UNDER [vPIC MAKE / vPIC MODEL / vPIC BODY CLASS OVERVIEW](#).

## **AUTOMOBILES**

These attributes are used to classify different types of passenger cars. These types of light vehicles, referred to as automobiles, are designed primarily to transport eight or fewer people.

**01 (Convertible [excludes sunroof and t-bar])** refers to a passenger car equipped with a removable or retractable roof. To qualify for this code, the entire roof must open. Convertible roofs are generally fabric; however, removable hardtops are also included. This attribute takes priority over 2-door or 4-door codes.

**02 (2-Door Sedan, Hardtop, Coupe)** refers to a passenger car equipped with two doors for ingress/egress and a separate trunk area for cargo (e.g., trunk lid hinged below the backlight). Folding rear seats do not necessarily violate the separate “trunk area” concept.

**03 (3-Door/2-Door Hatchback)** refers to a passenger car equipped with two doors for ingress/egress and a rear hatch opening for cargo (e.g., hinged above the backlight). The cargo area is not permanently partitioned from the passenger compartment area.

**04 (4-Door Sedan, Hardtop)** refers to a passenger car equipped with four doors for ingress/egress and a separate trunk area for cargo (e.g., trunk lid hinged below the backlight). Folding rear seats do not necessarily violate the separate “trunk area” concept.

**05 (5-Door/4-Door Hatchback)** refers to a passenger car equipped with four doors for ingress/egress and a rear hatch opening for cargo (e.g., hinged above the backlight). The cargo area is not permanently partitioned from the passenger compartment area.

**06 (Station Wagon [excluding van and truck based])** refers to a passenger car with an enlarged cargo area. The entire roof covering the cargo area is generally equal in height from front to rear and full height side glass is installed between the C and D-pillars. The rearmost area is not permanently partitioned from the forward passenger compartment area (e.g., “horizontal window shades” to hide cargo do not constitute partitions).

**07 (Hatchback, Number of Doors Unknown)** refers to a passenger car with an unknown number of doors for ingress/egress and a rear hatch opening for cargo (e.g., hinged above the backlight). The cargo area is not permanently partitioned from the passenger compartment area.

**17 (3-Door Coupe)** refers to a passenger car equipped with three doors for ingress/egress in which 2 of the doors are located on the driver’s side and a separate trunk area for cargo (e.g., trunk lid hinged below the backlight). Folding rear seats do not necessarily violate the separate “trunk area” concept.

**08 (Sedan/Hardtop, Number of Doors Unknown)** refers to a passenger car equipped with an unknown number of doors for ingress/egress and a separate trunk area for cargo (e.g., trunk lid hinged below the backlight). Folding rear seats do not necessarily violate the separate “trunk area” concept.

**09 (Other or Unknown Automobile Type)** is used for any passenger car that cannot be described by the other automobile codes OR when it is known that the vehicle is a passenger car, but there is insufficient data to determine the type. Do not use this attribute if the police crash report alone or in combination with other information gives sufficient detail to identify a more specific attribute.

- **Example #1:** If the possible choices are codes “01,” “02,” or “09,” but there is enough detail to identify that it is a 2-door and that it is NOT a convertible, then use [02 \(2-Door Sedan, Hardtop, Coupe\)](#).
- **Example #2:** If there is information that it is a 4-door and the police crash report eliminates the possibility of a hatchback or station wagon, then use [04 \(4-Door Sedan, Hardtop\)](#).

## ***AUTOMOBILE DERIVATIVES***

This describes certain passenger cars that have been modified to perform cargo-related tasks.

**10 (Auto-Based Pickup)** refers to a passenger car based, pickup type vehicle. The roof area (and side glass) rearward of the front seats on a station wagon have been removed and converted into a pickup-type cargo box.

**11 (Auto-Based Panel (Cargo Station Wagon, auto-based Ambulance/Hearse))** refers to an automotive station wagon that may have sheet metal rearward of the B-pillar rather than glass.

**12 (Large Limousine)** - more than four side doors or stretched chassis refers to an automobile that has sections added within its wheelbase to increase length and passenger/cargo carrying capacity.

**13 (Three-Wheel Automobile or Automobile Derivative)** refers to three-wheel vehicles with an enclosed passenger compartment not including [82 \(Three-Wheeled Motorcycle \(2 Rear Wheels\)\)](#) or [86 \(Enclosed Three Wheel Motorcycle/Enclosed Autocycle \(1 Rear Wheel\)\)](#).

## ***UTILITY VEHICLES (Less than or equal to 10,000 lbs GVWR)***

Utility Vehicles are designed for carrying people, and generally considered a multi-purpose vehicle that is designed to have off-road capabilities. These vehicles are generally four-wheel drive (4 x 4), have increased ground clearance, and are equipped with a strong frame. Four-wheel drive automobiles are not considered utility vehicles.

**14 (Compact Utility)** refers to a short wheelbase and narrow tracked multi-purpose vehicle designed to operate in rugged terrain.

**15 (Large Utility)** refers to full-size multi-purpose vehicles primarily designed around a shortened pickup truck chassis. Generally, a station wagon style body, some models are equipped with a removable top.

**16 (Utility Station Wagon)** refers primarily to a pickup truck-based chassis enlarged to a station wagon.

**19 (Utility Vehicle, Unknown Body Type)** is used when it is known that the vehicle is a utility vehicle, but there is insufficient data to determine the specific type.

### ***VAN-BASED LIGHT TRUCKS (GVWR less than or equal to 10,000 lbs)***

Van-Based Light Trucks (less than or equal to 10,000 lbs GVWR) are designed to maximize cargo/passenger area versus overall length. Basically a “box on wheels,” these vehicles are identifiable by their enclosed cargo/passenger area and relatively short (or non-existent) hood.

**20 (Minivan)** refers to down-sized cargo or passenger unibody vans.

**21 (Large Van)** refers to a standard cargo or passenger van and includes van-based buses less than 10,001 lbs GVWR. These vans will generally have a larger capacity in both volume and GVWR.

**22 (Step Van or Walk-In Van [less than or equal to 10,000 lbs. GVWR])** refers to a multi-stop delivery vehicle with a GVWR less than or equal to 10,000 lbs Examples are the Grumman LLV used by the U.S. Postal Service or the Aeromate manufactured by Utilimaster Motor Corporation.

**28 (Other Van Type)** refers to a cargo or delivery van where the chassis and cab portions from the B-pillar forward of this vehicle are the same as in Minivans or Large Vans with a frame mounted cargo area unit added behind the driver/cab area or if the van cannot be described as a Minivan, Large Van, Step-van, or a Van-based motor home. Annotate the van type when using this code. This code takes priority over Minivans and Large Vans.

**29 (Unknown Van Type)** is used when it is known that this vehicle is a light van, but its specific type cannot be determined.

### ***LIGHT CONVENTIONAL TRUCKS (Pickup Style Cab, GVWR less than or equal to 10,000 lbs)***

Light Conventional Trucks are used to describe vehicles commonly referred to as pickup trucks and some of their derivatives. These light trucks are characteristically designed with a small cab containing a single row of seats (extended cabs with additional seats are available for some models), a large hood covering a conventional engine placement, and a separate open box area (approximately 180 to 240 centimeters long) for cargo.

**33 (Convertible Pickup)** refers to a pickup truck equipped with a removable or retractable roof. To qualify for this code, the entire roof must open. Convertible roofs are generally fabric; however, removable hardtops are also included. This code takes priority over compact and large pickups.

**34 (Light Pickup)** is a single unit straight truck with a pickup body style and a GVWR of 10,000 lbs or less.

**39 (Unknown (Pickup Style) Light Conventional Truck Type)** is used when this vehicle is a Light Conventional Truck, but there is insufficient data to determine the specific code.

### ***OTHER LIGHT TRUCKS (GVWR less than or equal to 10,000 lbs.)***

Other Light Trucks are used to describe vehicles that are based upon a conventional light pickup frame, but a commercial or recreational body has been affixed to the frame rather than a pickup box.

**40 (Cab Chassis Based [includes rescue vehicles, light stake, dump, and tow truck])** is used to describe a light vehicle with a pickup style cab and a commercial (non-pickup) body attached to the frame. Included are pickup based ambulances and tow trucks.

**41 (Truck Based Panel)** is used to describe a truck-based station wagon that has sheet metal rather than glass above the beltline rearward of the B-pillars.

**45 (Other Light Conventional Truck Type)** is used for light conventional trucks that cannot be described elsewhere.

**48 (Unknown Light Truck Type)** is used when it is known that the vehicle is a light truck but further classification into one of the more detailed light truck categories (utility, van, pickup, or other light trucks) is not possible. Example: It is known the light vehicle is a utility vehicle or van, but it can't be determined which one.

**49 (Unknown Light Vehicle Type [automobile, utility, van, or light truck])** is used when it is known that the vehicle is a light vehicle, but insufficient data exists to specify what type of light vehicle it is.

### ***BUSES (excludes van-based buses with GVWR less than or equal to 10,000 lbs)***

Buses are defined as any motor vehicle designed primarily to transport large groups of passengers (nine or more people, including the driver).

**50 (School Bus)** (designed to carry students; not cross-country or transit) is a bus designed to carry passengers to and from educational facilities and/or related functions. The vehicles are characteristically painted yellow and clearly identified as school buses. Use this code regardless of whether the vehicle is owned by a school system or a private company. School buses converted for other uses (e.g., church bus) also take this code.

**51 (Cross Country/Intercity Bus)** describes a bus body type designed to travel long distances between cities (e.g., Greyhound).

**52 (Transit Bus [City Bus])** describes a bus body type designed for public transportation typically within a city.

**55 (Van-Based Bus GVWR greater than 10,000 lbs.)** describes a bus body type built on a van-based chassis.

**58 (Other Bus Type)** is a vehicle designed/converted to carry nine or more people, including the driver, not described by the attributes [50 \(School Bus\)](#), [51 \(Cross Country/Intercity Bus\)](#), [52 \(Transit Bus\)](#), or [55 \(Van-Based Bus\)](#). Examples include a specialized tour bus or bus-based motor home.

**59 (Unknown Bus Type)** is used when it is known the transport device is a bus but there is insufficient data to choose between the bus attributes.

## **MEDIUM/HEAVY TRUCKS (GVWR greater than 10,000 lbs)**

Medium/Heavy Trucks describe a single-unit truck specifically designed for carrying cargo on the same chassis as the cab. They pertain to a truck-tractor designed for towing trailers or semi-trailers. Although towing is their primary purpose, some truck-tractors are equipped with cargo areas located rearward of the cab.

**60 (Step Van [Greater than 10,000 lbs. GVWR])** defines a single-unit, enclosed body with a GVWR greater than 10,000 lbs and an integral driver's compartment and cargo area. Step vans are generally equipped with a folding driver seat mounted on a pedestal and a sliding door for easy ingress/egress.

**61-63 (Single-Unit Straight Truck or Cab-chassis)** describes a non-articulated truck designed to carry cargo. The attribute selected is based on the applicable GVWR range for the vehicle. Includes "incomplete" or "cutaway."

**64 (Single-Unit Straight Truck or Cab-chassis [GVWR unknown])** describes a medium/heavy non-articulated truck designed to carry cargo. It is known not to be a step van, van, or pickup truck, but its GVWR is unknown. Includes "incomplete" or "cutaway."

**66 (Truck-Tractor [Cab only or with any number of trailing units])** describes a fifth wheel equipped tractor-trailer power unit. The number of trailing units is not a consideration.

**67 (Medium/Heavy Pickup [GVWR greater than 10,000 lbs.])** is a single-unit straight truck with a pickup body style with a GVWR greater than 10,000 lbs. Examples include the Ford Super Duty 350, 450, or 550.

**78 (Unknown Medium/Heavy Truck Type)** is used when it is unknown whether the medium/heavy truck is a single-unit truck or a truck-tractor and/or trailer combination and it is known that the vehicle is either a medium or heavy truck with GVWR greater than 10,000 lbs.

**79 (Unknown Truck Type [light/medium/heavy])** is used when it is known that this vehicle is a truck, but there is insufficient data to classify the vehicle further.

## **MOTOR HOMES**

Motor Homes are recreational vehicles mounted on an incomplete vehicle chassis that is suitable to live in and drive across the country.

**42 (Light Vehicle Based Motor Home [chassis mounted])** is used to describe a frame mounted recreational unit attached to a light van or conventional chassis.

**65 (Medium/Heavy Vehicle Based Motor Home)** describes a recreational vehicle mounted on a single unit medium/heavy truck chassis, *van-based cutaway, bus chassis, or motorhome strip chassis*.

**73 (Camper or Motor Home, Unknown GVWR)** is used when it is known the vehicle is a camper or motor home, but *it* is unknown *if it is a* [42 \(Light Vehicle Based Motor Home \[chassis mounted\]\)](#) *or a* [65 \(Medium/Heavy Vehicle Based Motor Home\)](#).

## **MOTORCYCLES, MOPEDS, ALL-TERRAIN VEHICLES, ALL-TERRAIN CYCLES**

**80 (Two Wheel Motorcycle (excluding motor scooters))** is used when a motor vehicle having a seat or saddle for the use of its operator is a two-wheeled open (e.g., no enclosed body) vehicle propelled by a motor. Motorcycles equipped with a side car also use this code.

**81 (Moped or Motorized Bicycle)** is used when the vehicle is a speed-limited motor-driven cycle capable of moving either by pedaling or by a motor. **Note:** In the circumstance that a person operating a motorized bicycle is classified as a non-motorist on the police crash report, this person should be coded as a motor vehicle occupant rather than a non-motorist in FARS/CRSS.

**82 (Three-Wheeled Motorcycle (2 Rear Wheels))** is used when the vehicle is a three-wheeled open vehicle propelled by a motor, or a three-wheeled motorized bicycle capable of moving either by pedaling or by a motor.

**83 (Off-Road Motorcycle)** is used when the vehicle is a two-wheeled open vehicle propelled by a motor designed or built for off-road use only.

**84 (Motor Scooter)** a light, two-wheeled, open motor vehicle on which the driver sits over an enclosed engine with legs together and feet resting on a floorboard.

**85 (Unenclosed Three Wheel Motorcycle/Unenclosed Autocycle (1 Rear Wheel))** A large motorcycle with three wheels, configured with two front wheels and a saddle with handlebars, or seat(s) and a steering wheel, but not completely enclosed.

**86 (Enclosed Three Wheel Motorcycle/Enclosed Autocycle (1 Rear Wheel))** A large motorcycle with three wheels, configured with two front wheels, a seat(s), and steering wheel and is completely enclosed.

**87 (Unknown Three Wheel Motorcycle Type)** is used when the vehicle is known to be a three-wheel motorcycle, but it is not known if attribute [82 \(Three-wheel Motorcycle \(2 Rear Wheels\)\)](#), [85 \(Unenclosed Three Wheel Motorcycle / Unenclosed Autocycle \(1 Rear Wheel\)\)](#), or [86 \(Enclosed Three Wheel Motorcycle / Enclosed Autocycle \(1 Rear Wheel\)\)](#) applies.

**88 (Other Motored Cycle [mini-bike, pocket motorcycles “pocket bikes”])** is used when the vehicle in question does not qualify for attributes 80-87.

**89 (Unknown Motored Cycle Type)** is used when it is known that the vehicle is a motored cycle, but no further data is available.

**90 (ATV/ATC [All-Terrain Cycle])** is used for off-road recreational vehicles. ATV/ATCs have 3 or 4 wheels, a saddle type seat, and handlebars for steering (no steering wheel). Does not include [96 \(Recreational Off-Highway Vehicles \(ROV\)\)](#) (automobile type seats and steering wheel).

## **OTHER VEHICLES**

Other Vehicles describes all motored vehicles that are designed primarily for off-road use.

**91 (Snowmobile)** refers to a vehicle designed to be operated over snow propelled by a motor.

**92 (Farm Equipment Other Than Trucks)** refers to farming implements other than trucks propelled by a motor (farm tractors, combines, etc.).

**93 (Construction Equipment Other Than Trucks)** refers to construction equipment other than trucks propelled by a motor (bulldozer, road grader, etc.).

**94 (Low speed vehicle (LSV)/Neighborhood Electric Vehicle (NEV))** refers to a vehicle that is designed for travel on secondary roads with speed limits equal to or less than 35 mph. LSVs can sometimes resemble golf carts but differ in that they must adhere to Federal Motor Vehicle Safety Standard (FMVSS) 500. Provisions of FMVSS 500 include the following.

The Vehicle must have:

- Four wheels
- Top speed of at least 20 mph, but it cannot exceed 25 mph
- GVWR less than 3,001 pounds
- Head, turn signal, and tail lamps
- Reflex reflectors
- Parking brake
- Rear view mirrors
- Windshield
- Safety belts
- Seventeen (17) character VIN

**95 (Golf Cart)** is a motor vehicle that is designed and manufactured for operation on a golf course for sporting or recreational purposes. Golf carts or golf cars are different from code [94 \(Low speed vehicle \(LSV\)/ Neighborhood Electric Vehicle \(NEV\)\)](#) in that if they are manufactured to go less than 20 mph, they are not subject to the Federal Motor Vehicle Safety Standard (FMVSS) 500. As a result, golf carts will not have a 17-digit VIN. Golf carts will have a nonstandard serial number that may be reported in the case material. Also, typically golf carts will not have safety features required of LSVs/NEVs under the FMVSS like safety belts, head lights, turn signal and tail lamps, rear view mirrors, etc.

**96 (Recreational Off-Highway Vehicle [ROV])** ROVs are intended to be used on terrain similar to that on which all-terrain vehicles (ATVs) are used. ROVs are distinguished from ATVs by the presence of a steering wheel instead of a handlebar for steering, bench or bucket seats for the driver and passenger(s) instead of straddle seating, and foot controls for throttle and braking instead of levers located on the handlebar. In addition, ROVs have a rollover protective system (ROPS), restraint systems, and a maximum speed greater than 30 mph.



**97 (Other Vehicle Type)** is used when the motorized vehicle in question does not qualify for [93 \(Construction equipment other than trucks\)](#), [92 \(Farm equipment other than trucks\)](#), or [91 \(Snowmobile\)](#). *Examples of Other Vehicle Types are* fork-lifts, city street sweepers, go-karts, “kit” cars, *riding lawn mowers*, etc.

#### **NOT REPORTED AND UNKNOWN BODY TYPE**

**98 (Not Reported)** *Code Not Reported only when NCSA MAKE, NCSA MODEL, NCSA BODY TYPE, and VEHICLE MODEL YEAR are ALL Not Reported. If you have partial information, see [99 \(Unknown Body Type\)](#).*

If a State’s crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered “**Not Reported**.”

Code **98 (Not Reported)** in these two situations:

1. No field or coding block exists on the State’s crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State’s crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State’s crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

**99 (Unknown Body Type)** is used when the available information regarding the type of vehicle is reported as Unknown. *If any detail is known regarding the vehicle’s Make/Model/Body/Year, code what is known and then code the other elements as Unknown.*

Consistency Checks [\(See Section 400\)](#):

| Error ID | IF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | THEN                                                                                   |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| 1C1P     | <p><i>[VEHICLE MODEL YEAR is greater than or equal to 2000 and vPIC BODY CLASS does not equal 004 (Low Speed Vehicle (LSV) / Neighborhood Electric Vehicle (NEV)), 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring / Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-Road Vehicle - Dirt Bike / Off-Road), 085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small / Minibike), 088 (Off-road Vehicle - Go Kart), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 097 (Off-road Vehicle - Snowmobile), 098 (Motorcycle - Street), 100 (Motorcycle - Enclosed Three Wheeled / Enclosed Autocycle), 103 (Motorcycle - Unenclosed Three Wheeled / Open Autocycle), 104 (Motorcycle - Moped), 105 (Off-road Vehicle - Recreational Off-Road Vehicle (ROV)), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 124 (Off-road Vehicle - Golf Cart), 125 (Motorcycle - Unknown Body Type), 126 (Off-road Vehicle - Farm Equipment), 127 (Off-road Vehicle - Construction Equipment), 996 (Motorized Bicycle), or 997 (Other)], or [vPIC BODY CLASS equals 006 (Motorcycle - Standard), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 109 (Motorcycle - Cross Country), or 125 (Motorcycle - Unknown Body Type), and VEHICLE MODEL YEAR is greater than 2020]], and STATE NUMBER does not equal 8 (CO), 17 (IL), 23 (ME), 26 (MI), or 28 (MS),</i></p> | <p>MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S) Subfield 1 should not equal 00 or 99.</p> |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1D0P            | SPECIAL USE equals 01 <b>or</b> 20,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>vPIC Body Class should equal 002 (Minivan), 003 (Coupe), 005 (Hatchback/Liftback/Notchback), 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 008 (Crossover Utility Vehicle (CUV)), 09 (Van), 013 (Sedan/Saloon), 015 (Wagon), 060 (Pickup), or 119 (Sport Utility Truck (SUT)).</b>                                                                                                                                                                                                            |
| 1E0P            | SPECIAL USE equals 19,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>vPIC Body Class must not equal a 011 (Truck), 016 (Bus), 066 (Truck-Tractor), 068 (Streetcar / Trolley), 073 (Bus - School Bus), 095 (Cargo Van), 111 (Step Van / Walk-in Van), 117 (Limousine), 126 (Off-road Vehicle - Farm Equipment), or 127 (Off-road Vehicle - Construction Equipment), and FINAL STAGE BODY CLASS must not equal 011 (Truck), 016 (Bus), 066 (Truck-Tractor), 068 (Streetcar / Trolley), 073 (Bus - School Bus), 095 (Cargo Van), 111 (Step Van / Walk-in Van), or 117 (Limousine).</b> |
| 1Q0F            | PERSON TYPE equals 01, and <b>vPIC BODY CLASS equals 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 69 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport/Adventure/Supermoto/On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 90 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 104 (Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle),</b> | SEATING POSITION must not equal 12-56, 99.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1R0P            | SEATING POSITION equals 51, and <b>vPIC BODY CLASS equals 016 (Bus), 068 (Streetcar / Trolley), or 73 (Bus-School Bus), or FINAL STAGE BODY CLASS equals 016 (Bus), 068 (Streetcar / Trolley), or 73 (Bus-School Bus),</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | INJURY SEVERITY must not equal 0, 9.                                                                                                                                                                                                                                                                                                                                                                                                     |
| 1Z2P            | any SEQUENCE OF EVENTS equals 01, <b>and vPIC BODY CLASS does not equal 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 104 (Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle), or any RELATED FACTORS-VEHICLE LEVEL equals 030,</b> | ROLLOVER must equal 1, 2, or 9.                                                                                                                                                                                                                                                                                                                                                                                                          |
| 2D0P            | SPECIAL USE equals 02,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>vPIC Body Class should equal 002 (Minivan), 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 008 (Crossover Utility Vehicle (CUV)), 009 (Van), 016 (Bus), 073 (Bus - School Bus), or 119 (Sport Utility Truck (SUT)), or FINAL STAGE BODY CLASS should equal 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 008 (Crossover Utility Vehicle (CUV)), 009 (Van), 016 (Bus), or 073 (Bus - School Bus).</b> |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2Q0F            | PERSON TYPE equals 02 <b>or</b> 03, and <b>vPIC BODY CLASS equals 001</b><br>(Convertible/Cabriolet), 003 (Coupe), 005 (Hatchback/Liftback/Notchback), 010 (Roadster), 013 (Sedan/Saloon), 060 (Pickup), 095 (Cargo Van), 105 (Off-road Vehicle - Recreational Off-Road Vehicle (ROV)), 108 (Motorhome), 111 (Step Van / Walk-in Van), 117 (Limousine), 126 (Off-road Vehicle - Farm Equipment), or 127 (Off-road Vehicle - Construction Equipment), or FINAL STAGE BODY CLASS equals 060 (Pickup) 095 (Cargo Van), 108 (Motorhome), 111 (Step Van / Walk-in Van), or 117 (Limousine), | SEATING POSITION must not equal 31-50.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 2R0P            | RESTRAINT SYSTEM USE Subfield 1 Type of Restraint System in Use equals 01-06 <b>or</b> 08-12,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>vPIC BODY CLASS must not equal 006</b> (Motorcycle - Standard), 012 (Motorcycle - Scooter), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport/Adventure/Supernoto/On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 097 (Off-road Vehicle - Snowmobile), 098 (Motorcycle - Street), 104 (Motorcycle - Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle). |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>THEN</b>                                    |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| 2U0P            | <p><b><i>vPIC BODY CLASS equals 004 (Low Speed Vehicle (LSV)/Neighborhood Electric Vehicle (NEV)), 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport/Adventure/Supermoto/On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 088 (Off-road Vehicle - Go Kart), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 097 (Off-road Vehicle - Snowmobile), 098 (Motorcycle - Street), 100 (Motorcycle - Enclosed Three Wheeled / Enclosed Autocycle), 103 (Motorcycle - Unenclosed Three Wheeled / Open Autocycle), 104 (Motorcycle - Moped), 105 (Off-road Vehicle - Recreational Off-Road Vehicle (ROV)), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 124 (Off-road Vehicle - Golf Cart), 125 (Motorcycle - Unknown Body Type), 126 (Off-road Vehicle - Farm Equipment), 127 (Off-road Vehicle - Construction Equipment), 996 (Motorized Bicycle), or 997 (Other), or FINAL STAGE BODY CLASS equals 004 (Low Speed Vehicle (LSV)/Neighborhood Electric Vehicle (NEV)),</i></b></p> | AIR BAG DEPLOYED should equal 20 <b>or</b> 98. |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>THEN</b>                                                                                                                                                                                                                   |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2U0Q            | <b><i>vPIC BODY CLASS equals 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small / Minibike), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 104 (Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle),</i></b> | AREAS OF IMPACT - INITIAL CONTACT POINT should not equal 14.                                                                                                                                                                  |
| 3A0P            | SPECIAL USE equals 07,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b><i>vPIC BODY CLASS must equal 011 (Truck), or FINAL STAGE BODY CLASS must equal 997 (Other (Specify:)).</i></b>                                                                                                            |
| 3Q0F            | <b><i>SEATING POSITION equals 50 (Sleeper Section of Cab [Truck]),</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b><i>vPIC BODY CLASS should equal 011 (Truck) or 066 (Truck-Tractor), or FINAL STAGE BODY CLASS should equal 011 (Truck) or 066 (Truck-Tractor), and POWER UNIT GVWR_FROM and POWER UNIT GVWR_To should equal 13-18.</i></b> |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>THEN</b>                                                                                                                                                                                                                                                  |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4A0P            | <b>vPIC BODY CLASS equals 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 097 (Off-road Vehicle - Snowmobile), 098 (Motorcycle - Street), 100 (Motorcycle - Enclosed Three Wheeled / Enclosed Autocycle), 103 (Motorcycle - Unenclosed Three Wheeled / Open Autocycle), 104 (Moped), 105 (Off-road Vehicle - Recreational Off-Road Vehicle (ROV)), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 124 (Off-road Vehicle - Golf Cart), 125 (Motorcycle - Unknown Body Type), 126 (Off-road Vehicle - Farm Equipment), 127 (Off-road Vehicle - Construction Equipment), or 996 (Motorized Bicycle),</b> | <b>SPECIAL USE must not equal 01-03, 06, 07, 12, or 20-24.</b>                                                                                                                                                                                               |
| 4D0P            | <b>SPECIAL USE equals 03,</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>vPIC BODY CLASS must equal 009 (Van), 016 (Bus), 068 (Streetcar / Trolley), 073 (Bus-School Bus), or 117 (Limousine), or FINAL STAGE BODY CLASS must equal 009 (Van), 016 (Bus), 068 (Streetcar / Trolley), 073 (Bus-School Bus), or 117 (Limousine).</b> |
| 4F3P            | <b>NUMBER OF OCCUPANTS is 01-98, and vPIC BODY CLASS equals 117 (Limousine),</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>NUMBER OF OCCUPANTS <i>should</i> not be greater than 16.</b>                                                                                                                                                                                             |
| 4N4P            | <b>MOTOR CARRIER IDENTIFICATION NUMBER does not equal 00-000000000 or 99-999999999,</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>POWER UNIT GVWR_From and POWER UNIT GVWR_To must equal 13-18, or VEHICLE TRAILING must equal 1-6, or CARGO BODY TYPE must equal 22, or HM2 must equal 2.</b>                                                                                              |
| 4N5P            | <b>POWER UNIT GVWR_From and POWER UNIT GVWR_To do not equal 13-18, and VEHICLE TRAILING does not equal 1-6, and CARGO BODY TYPE does not equal 22, and HM2 does not equal 2,</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>MOTOR CARRIER IDENTIFICATION NUMBER must equal 00-000000000, 99-999999999.</b>                                                                                                                                                                            |



| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>THEN</b>                                                 |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| 4Q0F            | PERSON TYPE equals 02, and <b>vPIC BODY CLASS equals 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport/Adventure/Supermoto/On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 90 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 100 (Motorcycle - Enclosed Three Wheeled / Enclosed Autocycle), 103 (Motorcycle - Unenclosed Three Wheeled / Open Autocycle), 104 (Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle),</b> | SEATING POSITION <i>should equal 13, 21, 54, 55, or 56.</i> |
| 4S0P            | <b>vPIC BODY CLASS equals 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport/Adventure/Supermoto/On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 104 (Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle),</b>                                                                                                                                                         | EJECTION must equal 8.                                      |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| 5A0P            | <b>vPIC BODY CLASS equals 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 104 (Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle), and any RELATED FACTORS - VEHICLE LEVEL does not equal 030,</b> | ROLLOVER must equal 0.                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 5D0P            | SPECIAL USE equals 04,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>vPIC BODY CLASS should equal 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 009 (Van), 011 (Truck), 016 (Bus), 060 (Pickup), 066 (Truck-Tractor), 095 (Cargo Van), 119 (Sport Utility Truck (SUT)), 997 (Other (Specify:)), or 999 (Unknown), or FINAL STAGE BODY CLASS should equal 009 (Van), 011 (Truck), 016 (Bus), 060 (Pickup), 066 (Truck-Tractor), 095 (Cargo Van), 119 (Sport Utility Truck (SUT)), 997 (Other (Specify:)), or 999 (Unknown).</b> |
| 5F0F            | NUMBER OF OCCUPANTS equals 00-98, and <b>vPIC BODY CLASS does not equal 016 (Bus), 068 (Streetcar / Trolley), or 73 (Bus-School Bus), and FINAL STAGE BODY CLASS does not equal 016 (Bus), 068 (Streetcar / Trolley), or 73 (Bus-School Bus),</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | the number of Person Level forms for that vehicle must be equal to the NUMBER OF OCCUPANTS.                                                                                                                                                                                                                                                                                                                                                                                   |
| 5Q0F            | PERSON TYPE equals 02, and <b>vPIC BODY CLASS equals 016 (Bus), 068 (Streetcar / Trolley), or 73 (Bus-School Bus), or FINAL STAGE BODY CLASS equals 016 (Bus), 068 (Streetcar / Trolley), or 73 (Bus-School Bus),</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | SEATING POSITION must <b>equal 12-18, 51, 52, 54, 55, 56, 98, or 99.</b>                                                                                                                                                                                                                                                                                                                                                                                                      |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                             | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| 6D0P            | SPECIAL USE equals 05,                                                                                                                                                                | <b>vPIC BODY CLASS</b> should equal 006 (Motorcycle - Standard), 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 008 (Crossover Utility Vehicle (CUV)), 009 (Van), 013 (Sedan/Saloon), 015 (Wagon), 060 (Pickup), 081 (Motorcycle - Touring / Sport Touring), 082 (Motorcycle - Cruiser), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 119 (Sport Utility Truck (SUT)), or 125 (Motorcycle - Unknown Body Type).                                                                                                                                                                                                                                                                                                                   |
| 6G0Q            | any RELATED FACTORS - VEHICLE LEVEL equals 030,                                                                                                                                       | <b>vPIC BODY CLASS</b> must equal 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 104 (Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle) for this vehicle. |
| 6Q0F            | PERSON TYPE equals 02 <b>or</b> 03, and <b>vPIC BODY CLASS</b> equals 011 (Truck) or 066 (Truck-Tractor), or <b>FINAL STAGE BODY CLASS</b> equals 011 (Truck) or 066 (Truck-Tractor), | SEATING POSITION must not equal 31-49.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 7D0P            | SPECIAL USE equals 06,                                                                                                                                                                | <b>NCSA BODY TYPE</b> must equal 11, 14-17, 19, 21, 22, 28, 29, 40, 41, 45, 48, 49, 61, 62, 64, 79, 98, 99.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 7Q0F            | PERSON TYPE equals 09,                                                                                                                                                                | SEATING POSITION <b>must equal 19, 98, or 99.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8D0P            | SPECIAL USE equals 08,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>vPIC BODY CLASS should equal 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 011 (Truck), 060 (Pickup), or 119 (Sport Utility Truck (SUT)), or FINAL STAGE BODY CLASS should equal vPIC BODY CLASS should equal 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 011 (Truck), 060 (Pickup), or 119 (Sport Utility Truck (SUT)), and POWER UNIT GVWR_FROM and POWER UNIT GVWR_TO should be in 11-12.</b> |
| 8L9P            | <b>vPIC BODY CLASS does not equal 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring / Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 Off-road Vehicle - Dirt Bike / Off-Road), 085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road), 086 (Off-road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small / Minibike), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 097 (Off-road Vehicle - Snowmobile), 098 (Motorcycle - Street), 104 (Motorcycle - Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motocross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle), and the CRASH EVENTS event equals 54, and the corresponding AREAS OF IMPACT (THIS VEHICLE) equals 19 or 20 in that row,</b> | there should be a previous event with CRASH EVENTS event equal to 18, 73, 91, or 98 involving that vehicle.                                                                                                                                                                                                                                                                                                                             |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                             | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| 8P0P            | PERSON TYPE equals 01, and AGE is less than 008,                                                                                                                                                                                                                      | <b>vPIC BODY CLASS</b> must equal <b>4 (Low Speed Vehicle (LSV) / Neighborhood Electric Vehicle (NEV)), 12 (Motorcycle - Scooter), 87 (Motorcycle - Small / Minibike), 88 (Off-road Vehicle - Go Kart), 97 (Off-road Vehicle - Snowmobile), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)) and 105 (Off-road Vehicle - Recreational Off-Road Vehicle (ROV)) , 124 (Off-road Vehicle - Golf Cart), 125 (Motorcycle - Unknown Body Type), 997 (Other), 998 (Not Reported), or 999 (Unknown).</b> |
| 920P            | any one of the fields <b>NCSA MAKE</b> , <b>NCSA MODEL</b> , <b>NCSA BODY TYPE</b> , and <b>VEHICLE MODEL YEAR</b> , equals Not Reported [ <b>NCSA MAKE</b> (97), <b>NCSA MODEL</b> (997), <b>NCSA BODY TYPE</b> (98), and <b>VEHICLE MODEL YEAR</b> (9998)],         | the other three must also equal Not Reported.                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 930P            | any one of the fields <b>NCSA MAKE</b> , <b>NCSA MODEL</b> , <b>NCSA BODY TYPE</b> , and <b>VEHICLE MODEL YEAR</b> , does not equal Not Reported [ <b>NCSA MAKE</b> (97), <b>NCSA MODEL</b> (997), <b>NCSA BODY TYPE</b> (98), and <b>VEHICLE MODEL YEAR</b> (9998)], | the other three must also not be coded as Not Reported.                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 960P            | <b>NCSA MAKE</b> is not 98, 99, and equals __, and <b>NCSA MODEL</b> equals __,                                                                                                                                                                                       | <b>NCSA BODY TYPE</b> must equal __ ( <b>NCSA MAKE</b> , <b>NCSA MODEL</b> , and <b>BODY TYPE</b> must be valid according to Vehicle Tables).                                                                                                                                                                                                                                                                                                                                                                         |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>THEN</b>                                                                   |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| 981P            | <b><i>vPIC BODY CLASS equals 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport/Adventure/Supermoto/On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 097 (Off-road Vehicle - Snowmobile), 098 (Motorcycle - Street), 104 (Moped), 105 (Off-road Vehicle - Recreational Off-Road Vehicle (ROV)), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle),</i></b> | <b>HELMET USE Subfield 1</b> Helmet Use must equal 05, 16, 17, 19, 98, or 99. |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>THEN</b>                                                                                                             |
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| 982P            | <p><b><i>vPIC BODY CLASS does not equal 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport/Adventure/Supermoto/On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 097 (Off-road Vehicle - Snowmobile), 098 (Motorcycle - Street), 100 (Motorcycle - Enclosed Three Wheeled / Enclosed Autocycle), 103 (Motorcycle - Unenclosed Three Wheeled / Open Autocycle), 104 (Moped), 105 (Off-road Vehicle - Recreational Off-Road Vehicle (ROV)), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 124 (Off-road Vehicle - Go Kart), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle),</i></b></p> | <p>HELMET USE Subfield 1 Helmet Use must equal 20 and HELMET USE Subfield 2 Any Indication of Mis-Use must equal 7.</p> |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A380            | FIRST HARMFUL EVENT equals 01 and this vehicle is involved in the FIRST HARMFUL EVENT and <b>vPIC BODY CLASS does not equal 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring / Sport Touring), 082 (Motorcycle - Cruiser), 084 Off-road Vehicle - Dirt Bike / Off-Road), 085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road), 086 (Off-road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small / Minibike), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 104 (Motorcycle - Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motocross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle),</b> for this vehicle, and RELATION TO TRAFFICWAY equals _____, | LOCATION OF ROLLOVER should equal _____ respectively.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| AE1P            | VEHICLE CONFIGURATION equals 05-08,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>vPIC BODY CLASS must equal 066 (Truck-Tractor), or FINAL STAGE BODY CLASS must equal 066 (Truck-Tractor).</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| AF2P            | VEHICLE CONFIGURATION equals 20, 21,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>vPIC BODY CLASS must equal 009 (Van), 016 (Bus), 068 (Streetcar / Trolley), 073 (Bus-School Bus), 117 (Limousine), or FINAL STAGE BODY CLASS must equal 009 (Van), 016 (Bus), 068 (Streetcar / Trolley), 073 (Bus-School Bus), or 117 (Limousine).</b>                                                                                                                                                                                                                                                                                                                                                                              |
| AH0P            | VEHICLE CONFIGURATION does not equal 00 <b>or</b> 99,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>vPIC BODY CLASS should equal 009 (Van), 011 (Truck), 016 (Bus), 060 (Pickup), 066 (Truck-Tractor), 068 (Streetcar / Trolley), 073 (Bus - School Bus), 095 (Cargo Van), 108 (Motorhome), 111 (Step Van / Walk-in Van), 117 (Limousine), 126 (Off-road Vehicle - Farm Equipment), 127 (Off-road Vehicle - Construction Equipment), or FINAL STAGE BODY CLASS should equal 009 (Van), 011 (Truck), 016 (Bus), 060 (Pickup), 066 (Truck-Tractor), 068 (Streetcar / Trolley), 073 (Bus-School Bus), 095 (Cargo Van), 108 (Motorhome), 111 (Step Van / Walk-in Van), 117 (Limousine), or 997 Other (Specify:), or HM2 should equal 2.</b> |



| <b>Error ID</b> | <b>IF</b>                                | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AH1P            | BUS USE equals 08,                       | <b>vPIC BODY CLASS must equal 009 (Van), 016 (Bus), or 073 (Bus - School Bus), or FINAL STAGE BODY CLASS must equal 009 (Van), 016 (Bus), 073 (Bus - School Bus), 108 (Motorhome), or 997 Other (Specify:).</b>                                                                                                                                                                                                                                                                                                                                                                                                                           |
| AH2P            | BUS USE equals 06,                       | <b>vPIC BODY CLASS should equal 009 (Van) or 016 (Bus), or FINAL STAGE BODY CLASS should equal 009 (Van) or 016 (Bus).</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| AL0P            | CARGO BODY TYPE equals 22,               | <b>vPIC BODY CLASS must equal 009 (Van), 016 (Bus), 068 (Streetcar / Trolley), 073 (Bus-School Bus), or 117 (Limousine), or FINAL STAGE BODY CLASS must equal 009 (Van), 016 (Bus), 068 (Streetcar / Trolley), 073 (Bus-School Bus), or 117 (Limousine).</b>                                                                                                                                                                                                                                                                                                                                                                              |
| AM0P            | CARGO BODY TYPE does not equal 00 or 99, | <b>vPIC BODY CLASS should equal 009 (Van), 011 (Truck), 016 (Bus), 060 (Pickup), 066 (Truck-Tractor), 068 (Streetcar / Trolley), 073 (Bus - School Bus), 095 (Cargo Van), 108 (Motorhome), 111 (Step Van / Walk-in Van), 117 (Limousine), 126 (Off-road Vehicle - Farm Equipment), 127 (Off-road Vehicle - Construction Equipment), or FINAL STAGE BODY CLASS should equal 009 (Van), 011 (Truck), 016 (Bus), 060 (Pickup), 066 (Truck-Tractor), 068 (Streetcar / Trolley), 073 (Bus-School Bus), 095 (Cargo Van), 108 (Motorhome), 111 (Step Van / Walk-in Van), or 117 (Limousine), or 997 Other (Specify:), or HM2 should equal 2.</b> |

| <b>Error ID</b> | <b>IF</b>                                                                                   | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| D560            | VIOLATIONS CHARGED equals 66,                                                               | <b>vPIC BODY CLASS should equal 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport/Adventure/Supermoto/On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 104 (Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle).</b>                                                                     |
| P01F            | RESTRAINT SYSTEM USE Subfield-1 Type of Restraint System in Use equals 01-06, 08, or 10-12, | EJECTION should equal 0 or 7.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| P094            | EJECTION equals 8,                                                                          | <b>SEATING POSITION must equal 55 or 56, or vPIC BODY CLASS must equal 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport/Adventure/Supermoto/On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 104 (Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle).</b> |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>THEN</b>                                              |
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| P290            | AIR BAG DEPLOYED equals 01-03, 07-09, and <b>vPIC BODY CLASS equals 001 (Convertible/Cabriolet), 002 (Minivan), 003 (Coupe), 005 (Hatchback/Liftback/Notchback), 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 008 (Crossover Utility Vehicle (CUV)), 009 (Van), 010 (Roadster), 011 (Truck), 013 (Sedan/Saloon), 015 (Wagon), 060 (Pickup), 117 (Limousine), 119 (Sport Utility Truck (SUT)), or FINAL STAGE BODY CLASS equals 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 008 (Crossover Utility Vehicle (CUV)), 009 (Van), 011 (Truck), 015 (Wagon), 060 (Pickup), 117 (Limousine), or 119 (Sport Utility Truck (SUT)), and VEHICLE MODEL YEAR equals 1998 or newer,</b> | SEATING POSITION should equal 11, 13, 21, 23, 31, or 33. |
| U080            | <b>vPIC BODY CLASS does not equal 009 (Van), 016 (Bus), 068 (Streetcar / Trolley), or 073 (Bus-School Bus), and FINAL STAGE BODY CLASS does not equal 009 (Van), 016 (Bus), 068 (Streetcar / Trolley), or 073 (Bus-School Bus),</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | UNLIKELY: SPECIAL USE equals 02 or 03.                   |

| <b>Error ID</b> | <b>IF</b>                                         | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| V020            | VEHICLE TRAILING equals 1,                        | <b>vPIC BODY CLASS</b> should not equal <b>006</b> ( <i>Motorcycle - Standard</i> ), <b>012</b> ( <i>Motorcycle - Scooter</i> ), <b>016</b> ( <i>Bus</i> ), <b>073</b> ( <i>Bus-School Bus</i> ), <b>080</b> ( <i>Motorcycle - Sport</i> ), <b>081</b> ( <i>Motorcycle - Touring / Sport Touring</i> ), <b>082</b> ( <i>Motorcycle - Cruiser</i> ), <b>083</b> ( <i>Motorcycle - Trike</i> ), <b>084</b> ( <i>Off-road Vehicle - Dirt Bike / Off-Road</i> ), <b>085</b> ( <i>Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road</i> ), <b>086</b> ( <i>Off-road Vehicle - Enduro (Off-road long-distance racing)</i> ), <b>087</b> ( <i>Motorcycle - Small / Minibike</i> ), <b>088</b> ( <i>Off-road Vehicle - Go Kart</i> ), <b>090</b> ( <i>Motorcycle - Side Car</i> ), <b>094</b> ( <i>Motorcycle - Custom</i> ), <b>097</b> ( <i>Off-road Vehicle - Snowmobile</i> ), <b>098</b> ( <i>Motorcycle - Street</i> ), <b>100</b> ( <i>Motorcycle - Enclosed Three Wheeled / Enclosed Autocycle</i> ), <b>103</b> ( <i>Motorcycle - Unenclosed Three Wheeled / Open Autocycle</i> ), <b>104</b> ( <i>Motorcycle - Moped</i> ), <b>109</b> ( <i>Motorcycle - Cross Country</i> ), <b>110</b> ( <i>Motorcycle - Underbone</i> ), <b>113</b> ( <i>Off-road Vehicle - Motocross (Off-road short distance, closed track racing)</i> ), <b>114</b> ( <i>Motorcycle - Competition</i> ), <b>125</b> ( <i>Motorcycle - Unknown Body Type</i> ), or <b>996</b> ( <i>Motorized Bicycle</i> ), and <b>FINAL STAGE BODY CLASS</b> should not equal <b>016</b> ( <i>Bus</i> ) or <b>073</b> ( <i>Bus-School Bus</i> ). |
| V031            | RELATED FACTORS-VEHICLE LEVEL equals <b>039</b> , | <b>vPIC BODY CLASS</b> should equal <b>011</b> ( <i>Truck</i> ), <b>060</b> ( <i>Pickup</i> ), <b>66</b> ( <i>Truck-Tractor</i> ), <b>095</b> ( <i>Cargo Van</i> ), <b>111</b> ( <i>Step Van / Walk-in Van</i> ), <b>127</b> ( <i>Off-road Vehicle - Construction Equipment</i> ), or <b>997</b> ( <i>Other</i> ), or <b>FINAL STAGE BODY CLASS</b> should equal <b>011</b> ( <i>Truck</i> ), <b>060</b> ( <i>Pickup</i> ), <b>66</b> ( <i>Truck-Tractor</i> ), <b>095</b> ( <i>Cargo Van</i> ), <b>111</b> ( <i>Step Van/Walk-in Van</i> ), or <b>997</b> ( <i>Other (Specify:)</i> ).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| V032            | SPECIAL USE equals 10, 11, or 12,                 | <b>vPIC BODY CLASS</b> should equal <b>007</b> ( <i>Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)</i> ), <b>009</b> ( <i>Van</i> ), <b>011</b> ( <i>Truck</i> ), <b>060</b> ( <i>Pickup</i> ), or <b>119</b> ( <i>Sport Utility Truck (SUT)</i> ), or <b>FINAL STAGE BODY CLASS</b> should equal <b>007</b> ( <i>Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)</i> ), <b>009</b> ( <i>Van</i> ), <b>011</b> ( <i>Truck</i> ), <b>060</b> ( <i>Pickup</i> ), or <b>119</b> ( <i>Sport Utility Truck (SUT)</i> ).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

| <b>Error ID</b> | <b>IF</b>                                                      | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| V033            | RELATED FACTORS-VEHICLE LEVEL equals 045,                      | <b>vPIC BODY CLASS</b> must equal 060 (Pickup), or <b>FINAL STAGE BODY CLASS</b> must equal 060 (Pickup).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| V050            | HELMET USE Subfield 1 Helmet Use equals 05, 16, 17, 19, or 99, | <b>vPIC BODY CLASS</b> must equal 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport/Adventure/Supermoto/On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 097 (Off-road Vehicle - Snowmobile), 098 (Motorcycle - Street), 100 (Motorcycle - Enclosed Three Wheeled / Enclosed Autocycle), 103 (Motorcycle - Unenclosed Three Wheeled / Open Autocycle), 104 (Moped), 105 (Off-road Vehicle - Recreational Off-Road Vehicle (ROV)), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 124 (Off-road Vehicle - Go Kart), 125 (Motorcycle - Unknown Body Type), 996 (Motorized Bicycle), or 997 (Other). |
| V051            | BUS USE equals 01,                                             | <b>vPIC BODY CLASS</b> should equal 009 (Van), 016 (Bus), or 073 (Bus - School Bus), or <b>FINAL STAGE BODY CLASS</b> should equal 009 (Van), 016 (Bus), or 073 (Bus - School Bus).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| V052            | BUS USE equals 04,                                             | <b>vPIC BODY CLASS</b> should equal 016 (Bus), or <b>FINAL STAGE BODY CLASS</b> should equal 016 (Bus).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| V053            | BUS USE equals 05,                                             | <b>vPIC BODY CLASS</b> should equal 009 (Van), 016 (Bus), or 117 (Limousine), or <b>FINAL STAGE BODY CLASS</b> should equal 009 (Van), 016 (Bus), or 117 (Limousine).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>THEN</b>                                                                                                                                                                                                                |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| V054            | BUS USE equals 07,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>vPIC BODY CLASS must equal 009 (Van), 016 (Bus), 068 (Streetcar / Trolley), or 073 (Bus-School Bus), or FINAL STAGE BODY CLASS must equal 009 (Van), 016 (Bus), 068 (Streetcar / Trolley), or 073 (Bus-School Bus).</b> |
| V055            | BUS USE equals 00,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>vPIC BODY CLASS must not equal 016 (Bus) or 073 (Bus - School Bus), and FINAL STAGE BODY CLASS must not equal 016 (Bus) or 073 (Bus - School Bus).</b>                                                                  |
| V170            | NUMBER OF OCCUPANTS <b>equals 01-98, and vPIC BODY CLASS equals 001 (Convertible/Cabriolet), 003 (Coupe), 004 (Low Speed Vehicle (LSV) / Neighborhood Electric Vehicle (NEV)), 005 (Hatchback/Liftback/Notchback), 010 (Roadster), 013 (Sedan/Saloon), 060 (Pickup), 088 (Off-road Vehicle - Go Kart), 105 (Off-road Vehicle - Recreational Off-Road Vehicle (ROV)), 124 (Off-road Vehicle - Golf Cart), 126 (Off-road Vehicle - Farm Equipment), 127 (Off-road Vehicle - Construction Equipment), or 997 (Other), or FINAL STAGE BODY CLASS equals 004 (Low Speed Vehicle (LSV) / Neighborhood Electric Vehicle (NEV)) or 060 (Pickup),</b> | NUMBER OF OCCUPANTS should not be greater than 6.                                                                                                                                                                          |
| V190            | NUMBER OF OCCUPANTS is 01-98, and <b>FINAL STAGE BODY CLASS equals 117 (Limousine),</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | NUMBER OF OCCUPANTS should not be greater than 30.                                                                                                                                                                         |
| V200            | NUMBER OF OCCUPANTS is 01-98, and <b>vPIC BODY CLASS equals a motorcycle (006, 012, 080, 081, 082, 083, 084, 085, 086, 087, 090, 094, 098, 104, 109, 110, 113, 114, 125, 996), 100 (Motorcycle - Enclosed Three Wheeled / Enclosed Autocycle), 103 (Motorcycle - Unenclosed Three Wheeled / Open Autocycle), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), or 097 (Off-road Vehicle - Snowmobile),</b>                                                                                                                                                                                                              | NUMBER OF OCCUPANTS should not be greater than 15.                                                                                                                                                                         |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>THEN</b>                                                                                                                                                                                                                                                   |
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| V210            | NUMBER OF OCCUPANTS is 01-98, <b>vPIC BODY CLASS equals 002 (Minivan), 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 008 (Crossover Utility Vehicle (CUV)), 009 (Van), 15 (Wagon), or 119 (Sport Utility Truck (SUT)), or FINAL STAGE BODY CLASS equals 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 008 (Crossover Utility Vehicle (CUV)), 15 (Wagon), or 119 (Sport Utility Truck),</b>                                                                          | NUMBER OF OCCUPANTS should not be greater than <b>15</b> .                                                                                                                                                                                                    |
| V220            | NUMBER OF OCCUPANTS is 01-98, and <b>vPIC BODY CLASS equals 011 (Truck), 066 (Truck-Tractor), 095 (Cargo Van), 111 (Step Van / Walk-in Van), or FINAL STAGE BODY CLASS equals 011 (Truck), 066 (Truck-Tractor), 095 (Cargo Van), or 111 (Step Van / Walk-in Van),</b>                                                                                                                                                                                                                                 | NUMBER OF OCCUPANTS should not be greater than <b>4</b> .                                                                                                                                                                                                     |
| V260            | <b>vPIC BODY CLASS equals 999 (Unknown),</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                          | NUMBER OF OCCUPANTS <b>should equal 0-10 or 99</b> .                                                                                                                                                                                                          |
| V320            | <b>vPIC BODY CLASS equals 011 (Truck), 016 (Bus), 066 (Truck-Tractor), 068 (Streetcar / Trolley), 73 (Bus-School Bus), 95 (Cargo Van), 108 (Motorhome), or 111 (Step Van / Walk-in Van), or FINAL STAGE BODY CLASS equals 011 (Truck), 016 (Bus), 066 (Truck-Tractor), 068 (Streetcar / Trolley), 73 (Bus-School Bus), 95 (Cargo Van), 108 (Motorhome), or 111 (Step Van / Walk-in Van), and POWER UNIT GVWR_from and GVWR_to equals 13 to 18, and SEATING POSITION does not equal 11, 13, or 98,</b> | AIR BAG DEPLOYED should equal 20 <b>or 98</b> .                                                                                                                                                                                                               |
| V330            | SCHOOL BUS RELATED equals 1,                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>vPIC BODY CLASS or FINAL STAGE BODY CLASS</b> of at least one of the involved vehicles should equal <b>073 (Bus - School Bus)</b> , or SPECIAL USE for at least one involved vehicle should equal 02, or BUS USE for at least one vehicle should equal 01. |
| V440            | <b>vPIC BODY CLASS or FINAL STAGE BODY CLASS equals 073 (Bus - School Bus),</b>                                                                                                                                                                                                                                                                                                                                                                                                                       | SCHOOL BUS RELATED should equal 1.                                                                                                                                                                                                                            |
| V46P            | VEHICLE CONFIGURATION equals 21,                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>vPIC BODY CLASS must equal 009 (Van), 016 (Bus), 068 (Streetcar / Trolley), or 073 (Bus-School Bus), or FINAL STAGE BODY CLASS must equal 016 (Bus), 068 (Streetcar / Trolley), or 073 (Bus-School Bus).</b>                                               |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                     | <b>THEN</b>                                                                                                                                                                                                                                                                                            |
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| V504            | <b>POWER UNIT GVWR</b> equals <b>11 or 12</b> ,                                                                                               | <b>NCSA BODY TYPE</b> <i>must</i> equal 01-22, 28-49, 80-90, 91, 94-96 or 97.                                                                                                                                                                                                                          |
| V507            | <b>NCSA BODY TYPE</b> equals 01-22, 28-49, 80-90, 91, or 94-96,                                                                               | <b>POWER UNIT GVWR_From</b> and <b>Power Unit GVWR_To</b> <b>MUST</b> be 11 or 12.                                                                                                                                                                                                                     |
| V509            | <b>NCSA BODY TYPE</b> equals 50-78,                                                                                                           | <b>POWER UNIT GVWR_FROM</b> and <b>POWER UNIT GVWR_TO</b> <i>must be in</i> 13-18.                                                                                                                                                                                                                     |
| V56P            | <b>VEHICLE CONFIGURATION</b> equals 10,                                                                                                       | <b>POWER UNIT GVWR</b> <i>must equal</i> 11-12, and <b>HM1</b> <i>must equal</i> 2.                                                                                                                                                                                                                    |
| V57P            | <b>VEHICLE CONFIGURATION</b> equals 05,                                                                                                       | <b>CARGO BODY TYPE</b> <i>must equal</i> 12 or 96.                                                                                                                                                                                                                                                     |
| V58P            | <b>VEHICLE CONFIGURATION</b> equals 04,                                                                                                       | <b>vPIC BODY CLASS</b> <i>must not equal</i> 066 (Truck-Tractor), and <b>FINAL STAGE BODY CLASS</b> <i>must not equal</i> 066 (Truck-Tractor).                                                                                                                                                         |
| V596            | <b>SPECIAL USE</b> equals 23,                                                                                                                 | <b>POWER UNIT GVWR_FROM</b> and <b>POWER UNIT GVWR_TO</b> <i>must be in</i> 13-18, and <b>vPIC BODY CLASS</b> <i>must equal</i> 009 (Van), 011 (Truck), 060 (Pickup), or 095 (Cargo Van), or <b>FINAL STAGE BODY CLASS</b> <i>must equal</i> 009 (Van), 011 (Truck), 060 (Pickup), or 095 (Cargo Van). |
| V59P            | <b>VEHICLE CONFIGURATION</b> equals 06,                                                                                                       | <b>vPIC BODY CLASS</b> <i>must equal</i> 066 (Truck-Tractor), or <b>FINAL STAGE BODY CLASS</b> <i>must equal</i> 066 (Truck-Tractor), and <b>VEHICLE TRAILING</b> <i>must equal</i> 1.                                                                                                                 |
| V60P            | <b>VEHICLE CONFIGURATION</b> equals 07,                                                                                                       | <b>vPIC BODY CLASS</b> <i>must equal</i> 066 (Truck-Tractor), or <b>FINAL STAGE BODY CLASS</b> <i>must equal</i> 066 (Truck-Tractor), and <b>VEHICLE TRAILING</b> <i>must equal</i> 2.                                                                                                                 |
| V61P            | <b>VEHICLE CONFIGURATION</b> equals 08,                                                                                                       | <b>vPIC BODY CLASS</b> <i>must equal</i> 066 (Truck-Tractor), or <b>FINAL STAGE BODY CLASS</b> <i>must equal</i> 066 (Truck-Tractor), and <b>VEHICLE TRAILING</b> <i>must equal</i> 3.                                                                                                                 |
| V790            | <b>vPIC BODY CLASS</b> equals 002 (Minivan), and <b>HM1</b> equals 1,                                                                         | <b>VEHICLE CONFIGURATION</b> <i>should equal</i> 00, and <b>CARGO BODY TYPE</b> <i>should equal</i> 00.                                                                                                                                                                                                |
| V791            | <b>vPIC BODY CLASS</b> equals 998 or 999 and <b>POWER UNIT GVWR_From</b> is equal to 98 or 99, AND <b>POWER UNIT GVWR_To</b> equals 98 or 99, | <b>VEHICLE CONFIGURATION</b> <i>must equal</i> 99 and <b>CARGO BODY TYPE</b> <i>must equal</i> 99.                                                                                                                                                                                                     |
| V800            | <b>NCSA BODY TYPE</b> equals 21, 22, 28, 29,                                                                                                  | <b>VEHICLE CONFIGURATION</b> <i>should equal</i> 00, 04, 10, 20, 21, 99, and <b>CARGO BODY TYPE</b> <i>should equal</i> 00, 01, 22, 99.                                                                                                                                                                |



| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                              | <b>THEN</b>                                                                                                           |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| V810            | <b><i>vPIC BODY CLASS equals 060 (Pickup), or FINAL STAGE BODY CLASS equals 060 (Pickup), and POWER UNIT GVWR_From equals 13, 14, or 15, and POWER UNIT GVWR_To equals 13, 14, or 15, and VEHICLE TRAILING equals 1-4,</i></b>                         | VEHICLE CONFIGURATION should equal 04, and CARGO BODY TYPE should equal 01, 03, 04, 09.                               |
| V840            | <b><i>vPIC BODY CLASS equals 016 (Bus), 068 (Streetcar / Trolley), or 073 (Bus-School Bus), or FINAL STAGE BODY CLASS equals 016 (Bus), 068 (Streetcar / Trolley), or 073 (Bus-School Bus), and POWR UNIT GVWR From_ and GVWR_To equals 13-18,</i></b> | VEHICLE CONFIGURATION should equal 21, and CARGO BODY TYPE should equal 22.                                           |
| V850            | <b><i>vPIC BODY CLASS equals 111 (Step Van / Walk-in Van), or FINAL STAGE BODY CLASS equals 111 (Step Van / Walk-in Van), and POWER UNIT GVWR From_ and GVWR_To equals 13-18,</i></b>                                                                  | VEHICLE CONFIGURATION should equal 01 or 04, and CARGO BODY TYPE should equal 01.                                     |
| V860            | <b>HIT-AND-RUN equals 0, and <i>vPIC BODY CLASS equals 011 (Truck) or FINAL STAGE BODY CLASS equals 011 (Truck),</i></b>                                                                                                                               | VEHICLE CONFIGURATION should equal 01, 02, <b>or</b> 04, and CARGO BODY TYPE should equal 01-10, 12, <b>or</b> 96-98. |
| V870            | <b><i>vPIC BODY CLASS equals 108 (Motorhome), or FINAL STAGE BODY CLASS equals 108 (Motorhome), and POWER UNIT GVWR From_ and GVWR_To equals 13-18,</i></b>                                                                                            | VEHICLE CONFIGURATION should equal 19, and CARGO BODY TYPE should equal 97.                                           |
| V880            | <b><i>vPIC BODY CLASS equals 066 (Truck-Tractor), or FINAL STAGE BODY CLASS equals 066 (Truck-Tractor),</i></b>                                                                                                                                        | VEHICLE CONFIGURATION should equal 05-08 <b>or</b> 19, and CARGO BODY TYPE should equal 01-04, 06-12, 96-98.          |
| V900            | <b><i>vPIC BODY CLASS equals 108 (Motorhome), or FINAL STAGE BODY CLASS equals 108 (Motorhome), and POWER UNIT GVWR equals 98 or 99,</i></b>                                                                                                           | VEHICLE CONFIGURATION should equal 99, and CARGO BODY TYPE should equal 99.                                           |
| V910            | <b><i>vPIC BODY CLASS equals 99 (Unknown), and POWER UNIT GVWR From_ and GVWR_To equals 13-18,</i></b>                                                                                                                                                 | VEHICLE CONFIGURATION should equal 19, and CARGO BODY TYPE should equal 98.                                           |
| V915            | <b><i>vPIC BODY CLASS equals 060 (Pickup), or FINAL STAGE BODY CLASS equals 060 (Pickup), and POWER UNIT GVWR From_ and GVWR_To equals 13-18, and VEHICLE TRAILING equals 0,</i></b>                                                                   | VEHICLE CONFIGURATION should equal 01, and CARGO BODY TYPE should equal 97.                                           |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>THEN</b>                                                                                                                                          |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| V920            | <b><i>vPIC BODY CLASS equals 011 (Truck) or 060 (Pickup), or FINAL STAGE BODY CLASS equals 011 (Truck) or 060 (Pickup), and POWER UNIT GVWR From_ and GVWR_To equals 98 or 99,</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | VEHICLE CONFIGURATION should equal 04, 99, and CARGO BODY TYPE should equal 98 <b>or</b> 99.                                                         |
| V930            | VEHICLE CONFIGURATION equals 00, or CARGO BODY TYPE equals 00,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b><i>POWER UNIT GVWR From_ and GVWR_To must not equal 13-18.</i></b>                                                                                |
| V951            | <b><i>vPIC BODY CLASS equals 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport/Adventure/Supermoto/On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 097 (Off-road Vehicle - Snowmobile), 098 (Motorcycle - Street), 104 (Motorcycle - Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle),</i></b> | <b><i>RESTRAINT SYSTEM USE Subfield 1-Type of Restraint System in Use must equal 20 and Subfield 2 - Any Indication of Mis-Use must equal 7.</i></b> |
| V961            | NCSA MAKE equals 98, 99, and NCSA MODEL equals ___,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | NCSA BODY TYPE should equal ___ (NCSA MODEL and NCSA BODY TYPE should be valid according to the Vehicle Tables).                                     |
| V980            | <b><i>POWER UNIT GVWR_From and POWER UNIT GVWR_To equals 13-18, or VEHICLE CONFIGURATION equals 20 or 21, or HM1 equals 2,</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | MOTOR CARRIER IDENTIFICATION NUMBER must not equal 00-000000000 <b>or</b> 99-999999999.                                                              |
| V987            | <b><i>vPIC MAKE equals 99998 (Not Reported) or 99999 (Unknown) and vPIC MODEL equals 99998 (Not Reported) or 99999 (Unknown) and vPIC BODY CLASS equals 998 (Not Reported) or 999 (Unknown),</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | MOTOR CARRIER IDENTIFICATION NUMBER <b>should</b> equal 99-999999999.                                                                                |
| V989            | <b><i>vPIC MAKE equals 99998 (Not Reported) or 99999 (Unknown), and vPIC MODEL equals 99998 (Not Reported) or 99999 (Unknown), and vPIC BODY CLASS equals 998 (Not Reported) or 999 (Unknown),</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | BUS USE <b>should</b> equal 99.                                                                                                                      |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>THEN</b>                                                                                                                                       |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| VA98            | <b><i>vPIC BODY CLASS equals 006 (Motorcycle - Standard), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring / Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 109 (Motorcycle - Cross Country), or 125 (Motorcycle - Unknown Body Type), and VEHICLE MODEL YEAR is less than 2021,</i></b>                                                                                                                                                                                                                                                                                                                                                                                           | MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S) Subfield 1 must equal 00.                                                                               |
| VA99            | <b><i>vPIC BODY CLASS equals 04 (Low Speed Vehicle (LSV) / Neighborhood Electric Vehicle (NEV)), 012 (Motorcycle - Scooter), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 088 (Off-road Vehicle - Go Kart), 097 (Off-road Vehicle - Snowmobile), 104 (Moped), 105 (Off-road Vehicle - Recreational Off-Road Vehicle (ROV)), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 124 (Off-road Vehicle - Golf Cart), 126 (Off-road Vehicle - Farm Equipment), 127 (Off-road Vehicle - Construction Equipment), 996 (Motorized Bicycle), or 997 (Other),</i></b> | MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S) Subfield 1 must equal 00.                                                                               |
| VH06            | <b><i>vPIC BODY CLASS equals 083 (Motorcycle - Trike), 100 (Motorcycle - Enclosed Three Wheeled / Enclosed Autocycle), or 103 (Motorcycle - Unenclosed Three Wheeled / Open Autocycle),</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | RELATED FACTORS-VEHICLE LEVEL must not equal 030.                                                                                                 |
| VP03            | <b><i>VEHICLE IDENTIFICATION NUMBER decodes with error code only in (1, 400),</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b><i>VPIC MAKE, VPIC MODEL, VPIC BODY CLASS, NCSA MAKE, NCSA MODEL, and NCSA BODY TYPE must equal the corresponding decoded data values.</i></b> |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                      | <b>THEN</b>                                                                                                                                                                                                   |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>VP04</b>     | <i>any one of the fields vPIC MAKE, vPIC MODEL, vPIC BODY CLASS, VEHICLE MODEL YEAR, NCSA MAKE, NCSA MODEL, and NCSA BODY TYPE equals Not Reported (vPIC MAKE [99998], vPIC MODEL [99998], vPIC BODY CLASS [998], VEHICLE MODEL YEAR [9998], NCSA MAKE [97], NCSA MODEL [997], NCSA BODY TYPE [98])</i>        | <i>the other six must also equal Not Reported (vPIC MAKE [99998], vPIC MODEL [99998], vPIC BODY CLASS [998], VEHICLE MODEL YEAR [9998], NCSA MAKE [97], NCSA MODEL [997], NCSA BODY TYPE [98]).</i>           |
| <b>VP06</b>     | <i>any one of the fields vPIC MAKE, vPIC MODEL, vPIC BODY CLASS, VEHICLE MODEL YEAR, NCSA MAKE, NCSA MODEL and NCSA BODY TYPE does not equal Not Reported (vPIC MAKE [99998], vPIC MODEL [99998], vPIC BODY CLASS [998], VEHICLE MODEL YEAR [9998], NCSA MAKE [97], NCSA MODEL [997], NCSA BODY TYPE [98])</i> | <i>the other six must also not be coded as Not Reported (vPIC MAKE [99998], vPIC MODEL [99998], vPIC BODY CLASS [998], VEHICLE MODEL YEAR [9998], NCSA MAKE [97], NCSA MODEL [997], NCSA BODY TYPE [98]).</i> |
| <b>VP17</b>     | <i>vPIC BODY CLASS equals 104 (Motorcycle - Moped),</i>                                                                                                                                                                                                                                                        | <i>NCSA BODY TYPE must equal 81 (Moped or Motorized Bicycle).</i>                                                                                                                                             |
| <b>VP18</b>     | <i>vPIC BODY CLASS equals 012 (Motorcycle - Scooter),</i>                                                                                                                                                                                                                                                      | <i>NCSA BODY TYPE must equal 84 (Motor Scooter).</i>                                                                                                                                                          |
| <b>VP19</b>     | <i>vPIC BODY CLASS equals 103 (Motorcycle - Unenclosed Three Wheeled/Open Autocycle),</i>                                                                                                                                                                                                                      | <i>NCSA BODY TYPE must equal 85 (Unenclosed Three Wheel Motorcycle/Unenclosed Autocycle (1 Rear Wheel)).</i>                                                                                                  |
| <b>VP20</b>     | <i>vPIC BODY CLASS equals 100 (Motorcycle - Enclosed Three Wheeled/Enclosed Autocycle),</i>                                                                                                                                                                                                                    | <i>NCSA BODY TYPE must equal 86 (Enclosed Three Wheel Motorcycle/Enclosed Autocycle (1 Rear Wheel)).</i>                                                                                                      |
| <b>VP21</b>     | <i>vPIC BODY CLASS equals 105 (Off-road Vehicle - Recreational Off-Road Vehicle (ROV)),</i>                                                                                                                                                                                                                    | <i>NCSA BODY TYPE must equal 96 (Recreational Off-Highway Vehicle (ROV)).</i>                                                                                                                                 |
| <b>VP22</b>     | <i>vPIC BODY CLASS equals 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), or 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)),</i>                                                                             | <i>NCSA BODY TYPE must equal 83 (Off-Road Motorcycle).</i>                                                                                                                                                    |
| <b>VP23</b>     | <i>vPIC BODY CLASS equals 088 (Off-road Vehicle - Go Kart),</i>                                                                                                                                                                                                                                                | <i>NCSA BODY TYPE must equal 97 (Other Vehicle Type).</i>                                                                                                                                                     |
| <b>VP24</b>     | <i>vPIC BODY CLASS equals 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)),</i>                                                                                                                                                                                                           | <i>NCSA BODY TYPE must equal 90 (ATV/ATC (All-Terrain Cycle)).</i>                                                                                                                                            |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| VP25            | <i>vPIC BODY CLASS equals 006 (Motorcycle - Standard), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 085 (Motorcycle - Dual Sport/Adventure/Supermoto/On/Off-Road), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 114 (Motorcycle - Competition), or 125 (Motorcycle - Unknown Body Type),</i> | <i>NCSA BODY TYPE must equal 80 (Two Wheel Motorcycle (excluding motor scooters)) or 89 (Unknown Motored Cycle Type).</i>                                                                                                                                                                                                                                                                                                                            |
| VP26            | <i>vPIC BODY CLASS equals 087 (Motorcycle - Small/Minibike),</i>                                                                                                                                                                                                                                                                                                                                                                                      | <i>NCSA BODY TYPE must equal 88 (Other Motored Cycle (mini-bike, pocket motorcycles "pocket bikes")).</i>                                                                                                                                                                                                                                                                                                                                            |
| VP27            | <i>vPIC BODY CLASS equals 083 (Motorcycle - Trike),</i>                                                                                                                                                                                                                                                                                                                                                                                               | <i>NCSA BODY TYPE must equal 82 (Three-Wheeled Motorcycle (2 Rear Wheels)) or 87 (Unknown Three Wheel Motorcycle Type).</i>                                                                                                                                                                                                                                                                                                                          |
| VP28            | <i>vPIC BODY CLASS equals 097 (Off-road Vehicle - Snowmobile),</i>                                                                                                                                                                                                                                                                                                                                                                                    | <i>NCSA BODY TYPE must equal 91 (Snowmobile).</i>                                                                                                                                                                                                                                                                                                                                                                                                    |
| VP29            | <i>vPIC BODY CLASS equals 004 (Low Speed Vehicle (LSV)/Neighborhood Electric Vehicle (NEV)),</i>                                                                                                                                                                                                                                                                                                                                                      | <i>NCSA BODY TYPE must equal 94 (Low Speed Vehicle (LSV)/Neighborhood Electric Vehicle (NEV)).</i>                                                                                                                                                                                                                                                                                                                                                   |
| VP30            | <i>vPIC BODY CLASS equals 124 (Off-road Vehicle - Golf Cart),</i>                                                                                                                                                                                                                                                                                                                                                                                     | <i>NCSA BODY TYPE must equal 95 (Golf Cart).</i>                                                                                                                                                                                                                                                                                                                                                                                                     |
| VP31            | <i>vPIC BODY CLASS equals 998 (Not Reported),</i>                                                                                                                                                                                                                                                                                                                                                                                                     | <i>NCSA BODY TYPE must equal 98 (Not Reported).</i>                                                                                                                                                                                                                                                                                                                                                                                                  |
| VP32            | <i>vPIC BODY CLASS equals 999 (Unknown),</i>                                                                                                                                                                                                                                                                                                                                                                                                          | <i>NCSA BODY TYPE must equal 09 (Other or Unknown Automobile Type), 19 (Utility Vehicle, Unknown Body Type), 29 (Unknown van type), 39 (Unknown (pickup style)), 48 (Unknown light truck type), 49 (Unknown light vehicle type), 59 (Unknown Bus Type), 78 (Unknown medium/heavy truck type), 79 (Unknown truck type (light/medium/heavy), 87 (Unknown Three Wheel Motorcycle Type), 89 (Unknown motored cycle type), or 99 (Unknown Body Type).</i> |
| VP33            | <i>vPIC BODY CLASS equals 108 (Motorhome) or 078 (Incomplete - Motor Home Chassis) and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 13-18,</i>                                                                                                                                                                                                                                                                                                      | <i>NCSA BODY TYPE must equal 65 (Medium/Heavy Vehicle Based Motor Home) or 58 (Other Bus Type).</i>                                                                                                                                                                                                                                                                                                                                                  |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                     | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| <b>VP34</b>     | <b><i>vPIC BODY CLASS equals 108 (Motorhome) or 078 (Incomplete - Motor Home Chassis) and POWER UNIT GVWR_From and POWER UNIT GVWR_To equal 11 or 12,</i></b> | <b><i>NCSA BODY TYPE must equal 42 (Light Vehicle Based Motor Home (chassis mounted)).</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>VP35</b>     | <b><i>vPIC BODY CLASS equals 066 (Truck-Tractor),</i></b>                                                                                                     | <b><i>NCSA BODY TYPE must equal 66 (Truck-Tractor (Cab only or with any number of trailing units; any weight)).</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>VP36</b>     | <b><i>vPIC BODY CLASS equals 111 (Step Van/Walk-in Van) and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 13-18,</i></b>                                     | <b><i>NCSA BODY TYPE must equal 60 (Step Van (GVWR Greater than 10,000 lbs.)).</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>VP37</b>     | <b><i>vPIC BODY CLASS equals 111 (Step Van/Walk-in Van) and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 11 or 12,</i></b>                                  | <b><i>NCSA BODY TYPE must equal 22 (Step Van or Walk-In Van (GVWR less than or equal to 10,000 lbs.)).</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>VP38</b>     | <b><i>vPIC BODY CLASS equals 011 (Truck), and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 13-18,</i></b>                                                   | <b><i>NCSA BODY TYPE must equal 61 (Single-Unit Straight Truck or Cab-chassis (GVWR range 10,001 to 19,500 lbs.)), 62 (Single-Unit Straight Truck or Cab-chassis (GVWR range 19,501 to 26,000 lbs.)), 63 (Single-Unit Straight Truck or Cab-chassis (GVWR greater than 26,000 lbs.)), 64 (Single-Unit Straight Truck or Cab-Chassis (GVWR unknown)), 67 (Medium/Heavy Pickup (GVWR greater than 10,000 lbs.)), 71 (Unknown if single-unit or combination unit Medium Truck (GVWR range 10,001 lbs. to 26,000 lbs.)), 72 (Unknown if single-unit or combination unit Heavy Truck (GVWR greater than 26,000 lbs.)), or 78 (Unknown medium/heavy truck type).</i></b> |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                            | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>VP39</b>     | <b><i>vPIC BODY CLASS equals 074 (Incomplete - Chassis Cab (Number of Cab Unknown)), 070 (Incomplete - Chassis Cab (Double Cab)), 063 (Incomplete - Chassis Cab (Single Cab)), 112 (Incomplete - Commercial Chassis), 067 (Incomplete - Stripped Chassis), 065 (Incomplete), 064 (Incomplete - Glider), 062 (Incomplete - Cutaway) and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 13-18,</i></b> | <b><i>NCSA BODY TYPE must equal 50 (School Bus), 51 (Cross Country/Intercity Bus), 52 (Transit Bus (City Bus)), 55 (Van-Based Bus GVWR greater than 10,000 lbs.), 58 (Other Bus Type), 59 (Unknown Bus Type), 60 (Step Van (GVWR greater than 10,000 lbs.)), 61 (Single-Unit Straight Truck or Cab-chassis (GVWR range 10,001 to 19,500 lbs.)), 62 (Single-Unit Straight Truck or Cab-chassis (GVWR range 19,501 to 26,000 lbs.)), 63 (Single-Unit Straight Truck or Cab-chassis (GVWR greater than 26,000 lbs.)), 64 (Single-Unit Straight Truck or Cab-Chassis (GVWR unknown)), 65 (Medium/Heavy Vehicle Based Motor Home), 66 (Truck-tractor (Cab only or with any number of trailing units; any weight)), 67 (Medium/Heavy Pickup (GVWR greater than 10,000 lbs.)), 71 (Unknown if single-unit or combination unit Medium Truck (GVWR range 10,001 lbs. to 26,000 lbs.)), 72 (Unknown if single-unit or combination unit Heavy Truck (GVWR greater than 26,000 lbs.)), 78 (Unknown medium/heavy truck type), or 99 (Unknown Body Type).</i></b> |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                     | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>VP40</b>     | <b>vPIC BODY CLASS equals 074 (Incomplete - Chassis Cab (Number of Cab Unknown)), 070 (Incomplete - Chassis Cab (Double Cab)), 063 (Incomplete - Chassis Cab (Single Cab)), 112 (Incomplete - Commercial Chassis), 067 (Incomplete - Stripped Chassis), 065 (Incomplete), 064 (Incomplete - Glider), 062 (Incomplete - Cutaway) and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 11-12,</b> | <b>NCSA BODY TYPE must equal 01 (Convertible (excludes sunroof, t-bar)), 02 (2-Door Sedan, Hardtop, Coupe), 03 (3-Door/2-Door Hatchback), 04 (4-Door Sedan, Hardtop), 05 (5-Door/4-Door Hatchback), 06 (Station Wagon (excluding van and truck based), 07 (Hatchback, Number of Doors Unknown), 08 (Sedan/Hardtop, Number of Doors Unknown), 09 (Other or Unknown Automobile Type), 10 (Auto-Based Pickup), 11 (Auto-Based Panel), 12 (Large Limousine), 13 (Three-Wheel Automobile or Automobile Derivative), 14 (Compact Utility), 15 (Large Utility), 16 (Utility Station Wagon), 17 (3-Door Coupe), 19 (Utility Vehicle, Unknown Body Type), 20 (Minivan), 21 (Large Van), 22 (Step-van or walk-in van (GVWR less than or equal to 10,000 lbs.)), 28 (Other van type), 29 (Unknown Van Type), 33 (Convertible pickup), 34 (Light Pickup), 39 (Unknown (pickup style) light conventional truck type), 40 (Cab Chassis Based), 41 (Truck Based Panel), 45 (Other light conventional truck type), 48 (Unknown light truck type), 49 (Unknown light vehicle type).</b> |
| <b>VP41</b>     | <b>vPIC BODY CLASS equals 011 (Truck), and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 11-12,</b>                                                                                                                                                                                                                                                                                          | <b>NCSA BODY TYPE must equal 40 (Cab Chassis Based), 41 (Truck Based Panel), 45 (Other light conventional truck type), 48 (Unknown light truck type), or 49 (Unknown light vehicle type).</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>VP42</b>     | <b>vPIC BODY CLASS equals 060 (Pickup) and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 13-18,</b>                                                                                                                                                                                                                                                                                          | <b>NCSA BODY TYPE should equal 67 (Medium/Heavy Pickup (GVWR greater than 10,000 lbs.)).</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>VP43</b>     | <b>vPIC BODY CLASS equals 060 (Pickup) and POWER UNIT GVWR_From and POWER UNIT GVWR_To equals 11 or 12,</b>                                                                                                                                                                                                                                                                                   | <b>NCSA BODY TYPE must equal 10 (Auto-Based Pickup), 33 (Convertible pickup), 34 (Light Pickup), or 39 (Unknown (pickup style) light conventional truck type).</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>VP44</b>     | <b>vPIC BODY CLASS equals 071 (Incomplete - School Bus Chassis) or 073 (Bus - School Bus),</b>                                                                                                                                                                                                                                                                                                | <b>NCSA BODY TYPE must equal 50 (School Bus).</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |



| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                        | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>VP45</b>     | <b>vPIC BODY CLASS equals 009 (Van), 095 (Cargo Van), or 015 (Wagon), and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 13-18,</b>                                                                                                                                                                                              | <b>NCSA BODY TYPE must equal 55 (Van-Based Bus GVWR greater than 10,000 lbs.) or 61 (Single-Unit Straight Truck or Cab-chassis (GVWR range 10,001 to 19,500 lbs.)), 62 (Single-Unit Straight Truck or Cab-chassis (GVWR range 19,501 to 26,000 lbs.)), 63 (Single-Unit Straight Truck or Cab-chassis (GVWR greater than 26,000 lbs.)), or 64 (Single-Unit Straight Truck or Cab-Chassis (GVWR unknown)).</b>                                                                                 |
| <b>VP46</b>     | <b>vPIC BODY CLASS equals 009 (Van) or 095 (Cargo Van) and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 11 or 12,</b>                                                                                                                                                                                                          | <b>NCSA BODY TYPE must equal 06 (Station Wagon [excluding van and truck based]), 14 (Compact Utility), 20 (Minivan), 21 (Large Van), 28 (Other van type), or 29 (Unknown van type).</b>                                                                                                                                                                                                                                                                                                      |
| <b>VP47</b>     | <b>vPIC BODY CLASS equals 016 (Bus), 107 (Incomplete - Bus Chassis), 076 (Incomplete - Motor Coach Chassis), 077 (Incomplete - Shuttle Bus Chassis), 072 (Incomplete - Commercial Bus Chassis), 075 (Incomplete - Transit Bus Chassis), or 068 (Streetcar/Trolley) and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 13-18,</b> | <b>NCSA BODY TYPE must equal 51 (Cross Country/Intercity Bus), 52 (Transit Bus (City Bus)), 55 (Van-Based Bus GVWR greater than 10,000 lbs.), 58 (Other Bus Type), or 59 (Unknown Bus Type).</b>                                                                                                                                                                                                                                                                                             |
| <b>VP48</b>     | <b>vPIC BODY CLASS equals 002 (Minivan),</b>                                                                                                                                                                                                                                                                                     | <b>NCSA BODY TYPE must equal 20 (Minivan).</b>                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>VP49</b>     | <b>vPIC BODY CLASS equals 001 (Convertible/Cabriolet), 003 (Coupe), 013 (Sedan/Saloon), or 010 (Roadster),</b>                                                                                                                                                                                                                   | <b>NCSA BODY TYPE should equal 01 (Convertible (excludes sunroof, t-bar)), 02 (2-Door Sedan, Hardtop, Coupe), 03 (3-Door/2-Door Hatchback), 04 (4-Door Sedan, Hardtop), 05 (5-Door/4-Door Hatchback), 06 (Station Wagon (excluding van and truck based), 07 (Hatchback, Number of Doors Unknown), 08 (Sedan/Hardtop, Number of Doors Unknown), 09 (Other or Unknown Automobile Type), 11 (Auto-Based Panel), 13 (Three-Wheel Automobile or Automobile Derivative), or 17 (3-Door Coupe).</b> |
| <b>VP50</b>     | <b>vPIC BODY CLASS equals 117 (Limousine) and POWER UNIT GVWR_From and POWER UNIT GVWR_To equals 11 or 12,</b>                                                                                                                                                                                                                   | <b>NCSA BODY TYPE must equal 12 (Large Limousine) or 09 (Other or Unknown Automobile Type).</b>                                                                                                                                                                                                                                                                                                                                                                                              |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                        | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>VP51</b>     | <b>vPIC BODY CLASS equals 005 (Hatchback/Liftback/Notchback),</b>                                                                                                                                                                                                                                                                | <b>NCSA BODY TYPE must equal 03 (3-Door/2-Door Hatchback), 05 (5-Door/4-Door Hatchback), 06 (Station Wagon (excluding van and truck based), 07 (Hatchback, Number of Doors Unknown), 09 (Other or Unknown Automobile Type), 14 (Compact Utility), 19 (Utility Vehicle, Unknown Body Type), 20 (Minivan), 21 (Large Van), 48 (Unknown light truck type), or 49 (Unknown light vehicle type).</b> |
| <b>VP52</b>     | <b>vPIC BODY CLASS equals 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 008 (Crossover Utility Vehicle (CUV)), or 119 (Sport Utility Truck (SUT)) and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 11 or 12,</b>                                                                                              | <b>NCSA BODY TYPE must equal 05 (5-Door/4-Door Hatchback), 06 (Station Wagon (excluding van and truck based )), 14 (Compact Utility), 15 (Large Utility), 16 (Utility Station Wagon), 19 (Utility Vehicle, Unknown Body Type), 34 (Light Pickup), 48 (Unknown light truck type), or 49 (Unknown light vehicle type [automobile, utility vehicle, van, or light truck]).</b>                     |
| <b>VP53</b>     | <b>NCSA BODY TYPE equals 92 (Farm Equipment Other Than Trucks),</b>                                                                                                                                                                                                                                                              | <b>vPIC BODY CLASS must equal 126 (Off-road Vehicle - Farm Equipment).</b>                                                                                                                                                                                                                                                                                                                      |
| <b>VP54</b>     | <b>NCSA BODY TYPE equals 93 (Construction Equipment Other Than Trucks),</b>                                                                                                                                                                                                                                                      | <b>vPIC BODY CLASS must equal 127 (Off-road Vehicle - Construction Equipment).</b>                                                                                                                                                                                                                                                                                                              |
| <b>VP56</b>     | <b>vPIC BODY CLASS equals 016 (Bus), 107 (Incomplete - Bus Chassis), 076 (Incomplete - Motor Coach Chassis), 077 (Incomplete - Shuttle Bus Chassis), 072 (Incomplete - Commercial Bus Chassis), 075 (Incomplete - Transit Bus Chassis), or 068 (Streetcar/Trolley) and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 11-12,</b> | <b>NCSA BODY TYPE must equal 21 (Large Van).</b>                                                                                                                                                                                                                                                                                                                                                |

| <b>Error ID</b> | <b>IF</b>                                                                                                      | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>VP57</b>     | <b><i>vPIC BODY CLASS equals 117 (Limousine) and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 13-18,</i></b> | <b><i>NCSA BODY TYPE must equal 50 (School Bus), 51 (Cross Country/Intercity Bus), 52 (Transit Bus (City Bus)), 55 (Van-Based Bus GVWR greater than 10,000 lbs.), 58 (Other Bus Type), 59 (Unknown Bus Type), 60 (Step Van (GVWR greater than 10,000 lbs.)), 61 (Single-Unit Straight Truck or Cab-chassis (GVWR range 10,001 to 19,500 lbs.)), 62 (Single-Unit Straight Truck or Cab-chassis (GVWR range 19,501 to 26,000 lbs.)), 63 (Single-Unit Straight Truck or Cab-chassis (GVWR greater than 26,000 lbs.)), 64 (Single-Unit Straight Truck or Cab-Chassis (GVWR unknown)), 66 (Truck-tractor (Cab only or with any number of trailing units; any weight)), 67 (Medium/Heavy Pickup (GVWR greater than 10,000 lbs.)), 71 (Unknown if single-unit or combination unit Medium Truck (GVWR range 10,001 lbs. to 26,000 lbs.)), 72 (Unknown if single-unit or combination unit Heavy Truck (GVWR greater than 26,000 lbs.)), 78 (Unknown medium/heavy truck type), 79 (Unknown truck type (light/medium/heavy)).</i></b> |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                             | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>VP58</b>     | <b><i>vPIC BODY CLASS equals 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 008 (Crossover Utility Vehicle (CUV), or 119 (Sport Utility Truck (SUT) and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 13-18,</i></b> | <b><i>NCSA BODY TYPE must equal 50 (School Bus), 51 (Cross Country/Intercity Bus), 52 (Transit Bus (City Bus)), 55 (Van-Based Bus GVWR greater than 10,000 lbs.), 58 (Other Bus Type), 59 (Unknown Bus Type), 60 (Step Van (GVWR greater than 10,000 lbs.)), 61 (Single-Unit Straight Truck or Cab-chassis (GVWR range 10,001 to 19,500 lbs.)), 62 (Single-Unit Straight Truck or Cab-chassis (GVWR range 19,501 to 26,000 lbs.)), 63 (Single-Unit Straight Truck or Cab-chassis (GVWR greater than 26,000 lbs.)), 64 (Single-Unit Straight Truck or Cab-Chassis (GVWR unknown)), 66 (Truck-tractor (Cab only or with any number of trailing units; any weight)), 67 (Medium/Heavy Pickup (GVWR greater than 10,000 lbs.)), 71 (Unknown if single-unit or combination unit Medium Truck (GVWR range 10,001 lbs. to 26,000 lbs.)), 72 (Unknown if single-unit or combination unit Heavy Truck (GVWR greater than 26,000 lbs.)), 78 (Unknown medium/heavy truck type), 79 (Unknown truck type (light/medium/heavy), or 99 (Unknown Body Type).</i></b> |
| <b>VP89</b>     | <b><i>VPIC BODY CLASS equals 997,</i></b>                                                                                                                                                                                             | <b><i>NCSA BODY TYPE should be 09 or 97.</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>VP90</b>     | <b><i>vPIC BODY CLASS equals 015 (Wagon), and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 11 or 12,</i></b>                                                                                                                        | <b><i>NCSA BODY TYPE must equal code 03 (3-Door/2-Door Hatchback), 05 (5-Door/4-Door Hatchback), 06 (Station Wagon (excluding van and truck based)), 09 (Other or Unknown Automobile Type), 14 (Compact Utility), 15 (Large Utility), 16 (Utility Station Wagon), 20 (Minivan), 19 (Utility Vehicle, Unknown Body Type), 21 (Large Van), 28 (Other van type), 29 (Unknown van type), 48 (Unknown light truck type), or 49 (Unknown light vehicle type).</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

Consistency Checks (CRSS Only) ([See Section 400](#)):

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>THEN</b>                                           |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| V941            | <b>vPIC BODY CLASS</b> equals <b>069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 084 (Off-road Vehicle - Dirt Bike / Off-Road), 086 (Off-road Vehicle - Enduro (Off-road long-distance racing)), 088 (Off-road Vehicle - Go Kart), 097 (Off-road Vehicle - Snowmobile), 113 (Off-road Vehicle - Motocross (Off-road, short-distance, closed track racing)), 126 (Off-road Vehicle - Farm Equipment), 127 (Off-road Vehicle - Construction Equipment),</b> | VEHICLE LICENSE PLATE NUMBER should equal 0000000000. |

Consistency Checks (FARS Only) ([See Section 400](#)):

| Error ID | IF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | THEN                                              |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| 4S1P     | <b>vPIC BODY CLASS does equal 006</b><br>(Motorcycle - Standard), 012 (Motorcycle - Scooter), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport/Adventure/Supermoto/On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 100 (Motorcycle - Enclosed Three Wheeled / Enclosed Autocycle), 103 (Motorcycle - Unenclosed Three Wheeled / Open Autocycle), 104 (Moped), 105 (Off-road Vehicle - Recreational Off-Road Vehicle (ROV)), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle), and HM1 does not equal 1, | COMPLIANCE WITH CDL<br>ENDORSEMENTS MUST equal 0. |
| 5S0P     | <b>vPIC BODY CLASS equals 006</b> (Motorcycle - Standard), 012 (Motorcycle - Scooter), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport/Adventure/Supermoto/On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 104 (Motorcycle - Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle),                                                                                                                                          | EXTRICATION must equal 0.                         |
| 6A1P     | UNDERRIDE/OVERRIDE equals 1-8,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | NCSA BODY TYPE must not equal 80-84, 88-91.       |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>THEN</b>                                                                                                                                              |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| D270            | <b><i>POWER UNIT GVWR_From and POWER UNIT GVWR_To equals 17-18, or VEHICLE CONFIGURATION equals 21, or HM2 equals 2,</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b><i>COMMERCIAL MOTOR VEHICLE LICENSE STATUS should not equal 00.</i></b>                                                                               |
| D440            | COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 00,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b><i>POWER UNIT GVWR_From and POWER UNIT GVWR_To should not be in 17-18, VEHICLE CONFIGURATION should not equal 21, and HM2 should not equal 2.</i></b> |
| P130            | <b><i>vPIC BODY CLASS equals 011 (Truck), 016 (Bus), 068 (Streetcar / Trolley), 73 (Bus-School Bus), 066 (Truck-Tractor), 095 (Cargo Van), 111 (Step Van / Walk-in Van), 117 (Limousine), 126 (Off-road Vehicle - Farm Equipment), 127 (Off-road Vehicle - Construction Equipment), or FINAL STAGE BODY CLASS equals 011 (Truck), 016 (Bus), 068 (Streetcar / Trolley), 73 (Bus-School Bus), 066 (Truck-Tractor), 095 (Cargo Van), 111 (Step Van / Walk-in Van), or 117 (Limousine), and POWER UNIT GVWR_from and GVWR_to equals 13, 14, 15, 16, 17, or 18, and PERSON TYPE equals 01 or 03, and INJURY SEVERITY equals 4,</i></b> | FATAL INJURY AT WORK should equal 1.                                                                                                                     |

## V17 - Final Stage Body Class

FORMAT: 3 numeric

SAS NAME: Vehicle.ICFinalBody, Person.ICFinalBody, Parkwork.PICFinalBody

ELEMENT VALUES:

| Codes | Attributes                                                              |
|-------|-------------------------------------------------------------------------|
| 000   | <a href="#">Not Applicable</a>                                          |
| 002   | <a href="#">Minivan</a>                                                 |
| 004   | <a href="#">Low Speed Vehicle (LSV)</a>                                 |
| 007   | <a href="#">Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)</a> |
| 008   | <a href="#">Crossover Utility Vehicle (CUV)</a>                         |
| 009   | <a href="#">Van</a>                                                     |
| 011   | <a href="#">Truck</a>                                                   |
| 015   | <a href="#">Wagon</a>                                                   |
| 016   | <a href="#">Bus</a>                                                     |
| 060   | <a href="#">Pickup</a>                                                  |
| 066   | <a href="#">Truck-Tractor</a>                                           |
| 068   | <a href="#">Streetcar / Trolley</a>                                     |
| 073   | <a href="#">Bus-School Bus</a>                                          |
| 095   | <a href="#">Cargo Van</a>                                               |
| 108   | <a href="#">Motorhome</a>                                               |
| 111   | <a href="#">Step Van / Walk-in Van</a>                                  |
| 117   | <a href="#">Limousine</a>                                               |
| 119   | <a href="#">Sport Utility Truck</a>                                     |
| 997   | <a href="#">Other (Specify:)</a>                                        |
| 998   | <a href="#">Not Reported</a>                                            |
| 999   | <a href="#">Unknown</a>                                                 |

**Definition:** This element captures the completed/finished body class for an [Incomplete Vehicle](#). An incomplete vehicle is completed by a final stage manufacturer. The intent of this data element is to capture the body class for incomplete vehicles when they are finished for road-use.

**Remarks:** SEE ADDITIONAL REMARKS UNDER [VPIC MAKE / VPIC MODEL / VPIC BODY CLASS OVERVIEW](#).

This data element is only applicable to [Incomplete Vehicles](#) under vPIC BODY CLASS. The attributes used for this data element is a subset of the vPIC Body Class. Please refer to the descriptions under vPIC BODY CLASS for detailed information.



*This data element should be coded using all the available sources.*

**000 (Not Applicable)** is used when this vehicle is not an [Incomplete Vehicle](#) under vPIC BODY CLASS. For the completed vehicle or if the VPIC BODY CLASS is Other/Unknown/Not Reported, this field will be automatically populated as Not Applicable after the VPIC BODY CLASS is populated.

**997 Other (Specify:)** is used when the motor vehicle in question does not qualify for any of the above listed body classes. Specify using information on PCR or Vehicle Registration (FARS Only).

*\*Note: For attributes with a “Specify:” designation, a fill-in text box will open in RBIS. This text box should be used to provide additional detail about the attribute selection. Please include a specific reason for this selection.*

**998 (Not Reported)**

*If a State’s crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered “Not Reported.”*

*Code 998 (Not Reported) in these two situations:*

- 1. No field or coding block exists on the State’s crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).*
- 2. A field or coding block exists on the State’s crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State’s crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).*

**999 (Unknown)** is used when the available information on PCR regarding the type of vehicle’s final stage body class is Unknown.

**Consistency Checks** [\(See Section 400\)](#):

| Error ID | IF                                                                                                                                                                              | THEN                                               |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| V401     | NUMBER OF OCCUPANTS is 01-98, and vPIC BODY CLASS equals 108 (Motorhome), or FINAL STAGE BODY CLASS equals 108 (Motorhome),                                                     | NUMBER OF OCCUPANTS should not be greater than 8.  |
| V402     | NUMBER OF OCCUPANTS is 01-98, and vPIC BODY CLASS equals 073 (Bus - School Bus), or FINAL STAGE BODY CLASS equals 073 (Bus - School Bus),                                       | NUMBER OF OCCUPANTS should not be greater than 50. |
| V450     | NUMBER OF OCCUPANTS is 01-98, and vPIC BODY CLASS equals equal 016 (Bus) or 068 (Streetcar / Trolley), or FINAL STAGE BODY CLASS equals 016 (Bus) or 068 (Streetcar / Trolley), | NUMBER OF OCCUPANTS should not be greater than 60. |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                 |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>VP12</b>     | <b>UNLIKELY: FINAL STAGE BODY CLASS equals 997.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | --                                                                                                                                                                                                                                                                                                                                          |
| <b>VP55</b>     | <b>vPIC BODY CLASS equals 062 (Incomplete - Cutaway), 063 (Incomplete - Chassis Cab (Single Cab)), 064 (Incomplete - Glider), 065 (Incomplete), 067 (Incomplete - Stripped Chassis), 070 (Incomplete - Chassis Cab (Double Cab)), 071 (Incomplete - School Bus Chassis), 072 (Incomplete - Commercial Bus Chassis), 074 (Incomplete - Chassis Cab (Number of Cab Unknown)), 075 (Incomplete - Transit Bus Chassis), 076 (Incomplete - Motor Coach Chassis), 077 (Incomplete - Shuttle Bus Chassis), 078 (Incomplete - Motor Home Chassis), 107 (Incomplete - Bus Chassis), or 112 (Incomplete - Commercial Chassis),</b> | <b>FINAL STAGE BODY CLASS must not equal 000 (Not Applicable).</b>                                                                                                                                                                                                                                                                          |
| <b>VP59</b>     | <b>vPIC BODY CLASS equals 072 (Incomplete - Commercial Bus Chassis), 075 (Incomplete - Transit Bus Chassis), 076 (Incomplete - Motor Coach Chassis), 077 (Incomplete - Shuttle Bus Chassis), or 107 (Incomplete - Bus Chassis),</b>                                                                                                                                                                                                                                                                                                                                                                                      | <b>FINAL STAGE BODY CLASS must equal 016 (Bus), 073 (Bus-School Bus), 997 (Other (Specify:)), 998 (Not Reported), or 999 (Unknown).</b>                                                                                                                                                                                                     |
| <b>VP60</b>     | <b>vPIC BODY CLASS equals 071 (Incomplete - School Bus Chassis),</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>FINAL STAGE BODY CLASS must equal 073 (Bus-School Bus), 997 (Other (Specify:)), 998 (Not Reported), or 999 (Unknown).</b>                                                                                                                                                                                                                |
| <b>VP61</b>     | <b>vPIC BODY CLASS equals 078 (Incomplete - Motor Home Chassis),</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>FINAL STAGE BODY CLASS must equal 108 (Motorhome), 997 (Other (Specify:)), 998 (Not Reported), or 999 (Unknown).</b>                                                                                                                                                                                                                     |
| <b>VP62</b>     | <b>FINAL STAGE BODY CLASS equals 011 (Truck), 060 (Pickup), or 066 (Truck-Tractor),</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>vPIC BODY CLASS must equal 062 (Incomplete - Cutaway), 063 (Incomplete - Chassis Cab (Single Cab)), 064 (Incomplete - Glider), 065 (Incomplete), 067 (Incomplete - Stripped Chassis), 070 (Incomplete - Chassis Cab (Double Cab)), 074 (Incomplete - Chassis Cab (Number of Cab Unknown)), or 112 (Incomplete - Commercial Chassis).</b> |
| <b>VP63</b>     | <b>FINAL STAGE BODY CLASS equals 004 (Low Speed Vehicle (LSV)),</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>vPIC BODY CLASS should not equal 063 (Incomplete - Chassis Cab (Single Cab)), 070 (Incomplete - Chassis Cab (Double Cab)), 071 (Incomplete - School Bus Chassis), 074 (Incomplete - Chassis Cab (Number of Cab Unknown)), 076 (Incomplete - Motor Coach Chassis).</b>                                                                    |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                       | <b>THEN</b>                                                                                                                                                                                                                                                                                                                |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>VP64</b>     | <b><i>FINAL STAGE BODY CLASS equals 009 (Van), 015 (Wagon), 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 008 (Crossover Utility Vehicle (CUV)), 068 (Streetcar/Trolley), 095 (Cargo Van), 111 (Step Van/Walk-in Van),</i></b> | <b><i>vPIC BODY CLASS should not equal 071 (Incomplete - School Bus Chassis), 076 (Incomplete - Motor Coach Chassis), or 078 (Incomplete - Motor Home Chassis).</i></b>                                                                                                                                                    |
| <b>VP65</b>     | <b><i>FINAL STAGE BODY CLASS equals 117 (Limousine),</i></b>                                                                                                                                                                                    | <b><i>vPIC BODY CLASS should not equal 063 (Incomplete - Chassis Cab (Single Cab)), 070 (Incomplete - Chassis Cab (Double Cab)), 071 (Incomplete - School Bus Chassis), 074 (Incomplete - Chassis Cab (Number of Cab Unknown)), 075 (Incomplete - Transit Bus Chassis), or 077 (Incomplete - Shuttle Bus Chassis).</i></b> |

## V18 - Power Unit Gross Vehicle Weight Rating

FORMAT: 2 numeric occurring 1 time, 2 numeric occurring 1 time

SAS NAME: Vehicle.GVWR\_From, Vehicle.GVWR\_To, Parkwork.PGVWR\_From, Parkwork.PGVWR\_To

ELEMENT VALUES:

*Subfield 1: GVWR\_From*

*Subfield 2: GVWR\_To*

| Codes | Attributes                                           |
|-------|------------------------------------------------------|
| 11    | Class 1: 6,000 lbs. or less (2,722 kg or less)       |
| 12    | Class 2: 6,001 - 10,000 lbs. (2,722 - 4,536 kg)      |
| 13    | Class 3: 10,001 - 14,000 lbs. (4,536 - 6,350 kg)     |
| 14    | Class 4: 14,001 - 16,000 lbs. (6,350 - 7,258 kg)     |
| 15    | Class 5: 16,001 - 19,500 lbs. (7,258 - 8,845 kg)     |
| 16    | Class 6: 19,501 - 26,000 lbs. (8,845 - 11,794 kg)    |
| 17    | Class 7: 26,001 - 33,000 lbs. (11,794 - 14,969 kg)   |
| 18    | Class 8: 33,001 lbs. and above (14,969 kg and above) |
| 98    | <a href="#"><u>Not Reported</u></a>                  |
| 99    | <a href="#"><u>Reported as Unknown</u></a>           |

**Definition:** This element identifies the range of Gross Vehicle Weight Rating (GVWR) of the power unit as identified by the manufacturer through the vehicle's VIN submission.

**Subfield 1: GVWR\_From:** This field defines the lowest value for the range of the GVWR specified by the manufacturer as recommended loaded weight for a vehicle.

**Subfield 2: GVWR\_To:** This field defines the highest value for the range of the GVWR specified by the manufacturer as recommended loaded weight for a vehicle.

**Remarks:** SEE ADDITIONAL REMARKS in [vPIC MAKE / vPIC MODEL / vPIC BODY CLASS OVERVIEW](#).

*This data element records the range of the power unit's GVWR. If the power unit's GVWR is within the same range, the GVWR\_From and GVWR\_To values should be coded the same.*

**For Truck/Trailer Combinations:** Be sure to code the POWER UNIT GVWR in this data element and the trailer(s) GVWR in [TRAILER GVWR](#).

*If there is a VIN, GVWR\_From and GVWR\_To are derived from VIN decoding when available. If the value cannot be obtained from VIN decode, use PCR, vehicle registration (FARS Only), or truck and bus supplement (FARS Only) to code this data element.*

**Examples:**

- 10,000 lbs or less: Code GVWR\_From = 11; GVWR\_To = 12.
- 10,001 lbs to 26,000 lbs: Code GVWR\_From = 13; GVWR\_To = 16.
- 26,001 lbs or more: Code GVWR\_From = 17; GVWR\_To = 18.
- 6,001 lbs to 10,000 lbs: Code GVWR\_From = 12; GVWR\_To = 12.
- 33,001 lbs and above: Code GVWR\_From = 18; GVWR\_To = 18.

**98 (Not Reported)**

**Code 98 (Not Reported) in these two situations:**

1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material). As an example, if the PCR reports the GCWR for combined power unit and trailer instead of GVWR for power unit, this should be coded as Not Reported
2. A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

*If a State's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "Not Reported."*

**99 (Reported as Unknown) should be used when GVWR information is reported as "Unknown" on your police crash report or truck/bus supplement and the decoded VIN is unable to return a value.**

**Consistency Checks ([See Section 400](#)):**

| Error ID | IF                                                                                                                                        | THEN                                                                                         |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| V504     | POWER UNIT GVWR equals 11 or 12,                                                                                                          | NCSA BODY TYPE must equal 01-22, 28-49, 80-90, 91, 94-96 or 97.                              |
| V507     | NCSA BODY TYPE equals 01-22, 28-49, 80-90, 91, or 94-96,                                                                                  | POWER UNIT GVWR_From and Power Unit GVWR_To MUST be 11 or 12.                                |
| V509     | NCSA BODY TYPE equals 50-78,                                                                                                              | POWER UNIT GVWR_FROM and POWER UNIT GVWR_TO must be in 13-18.                                |
| VP33     | vPIC BODY CLASS equals 108 (Motorhome) or 078 (Incomplete - Motor Home Chassis) and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 13-18, | NCSA BODY TYPE must equal 65 (Medium/Heavy Vehicle Based Motor Home) or 58 (Other Bus Type). |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                              | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>VP34</b>     | <b>vPIC BODY CLASS equals 108 (Motorhome) or 078 (Incomplete - Motor Home Chassis) and POWER UNIT GVWR_From and POWER UNIT GVWR_To equal 11 or 12,</b> | <b>NCSA BODY TYPE must equal 42 (Light Vehicle Based Motor Home (chassis mounted)).</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>VP36</b>     | <b>vPIC BODY CLASS equals 111 (Step Van/Walk-in Van) and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 13-18,</b>                                     | <b>NCSA BODY TYPE must equal 60 (Step Van (GVWR Greater than 10,000 lbs.)).</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>VP37</b>     | <b>vPIC BODY CLASS equals 111 (Step Van/Walk-in Van) and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 11 or 12,</b>                                  | <b>NCSA BODY TYPE must equal 22 (Step Van or Walk-In Van (GVWR less than or equal to 10,000 lbs.)).</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>VP38</b>     | <b>vPIC BODY CLASS equals 011 (Truck), and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 13-18,</b>                                                   | <b>NCSA BODY TYPE must equal 61 (Single-Unit Straight Truck or Cab-chassis (GVWR range 10,001 to 19,500 lbs.)), 62 (Single-Unit Straight Truck or Cab-chassis (GVWR range 19,501 to 26,000 lbs.)), 63 (Single-Unit Straight Truck or Cab-chassis (GVWR greater than 26,000 lbs.)), 64 (Single-Unit Straight Truck or Cab-Chassis (GVWR unknown)), 67 (Medium/Heavy Pickup (GVWR greater than 10,000 lbs.)), 71 (Unknown if single-unit or combination unit Medium Truck (GVWR range 10,001 lbs. to 26,000 lbs.)), 72 (Unknown if single-unit or combination unit Heavy Truck (GVWR greater than 26,000 lbs.)), or 78 (Unknown medium/heavy truck type).</b> |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                            | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>VP39</b>     | <b><i>vPIC BODY CLASS equals 074 (Incomplete - Chassis Cab (Number of Cab Unknown)), 070 (Incomplete - Chassis Cab (Double Cab)), 063 (Incomplete - Chassis Cab (Single Cab)), 112 (Incomplete - Commercial Chassis), 067 (Incomplete - Stripped Chassis), 065 (Incomplete), 064 (Incomplete - Glider), 062 (Incomplete - Cutaway) and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 13-18,</i></b> | <b><i>NCSA BODY TYPE must equal 50 (School Bus), 51 (Cross Country/Intercity Bus), 52 (Transit Bus (City Bus)), 55 (Van-Based Bus GVWR greater than 10,000 lbs.), 58 (Other Bus Type), 59 (Unknown Bus Type), 60 (Step Van (GVWR greater than 10,000 lbs.)), 61 (Single-Unit Straight Truck or Cab-chassis (GVWR range 10,001 to 19,500 lbs.)), 62 (Single-Unit Straight Truck or Cab-chassis (GVWR range 19,501 to 26,000 lbs.)), 63 (Single-Unit Straight Truck or Cab-chassis (GVWR greater than 26,000 lbs.)), 64 (Single-Unit Straight Truck or Cab-Chassis (GVWR unknown)), 65 (Medium/Heavy Vehicle Based Motor Home), 66 (Truck-tractor (Cab only or with any number of trailing units; any weight)), 67 (Medium/Heavy Pickup (GVWR greater than 10,000 lbs.)), 71 (Unknown if single-unit or combination unit Medium Truck (GVWR range 10,001 lbs. to 26,000 lbs.)), 72 (Unknown if single-unit or combination unit Heavy Truck (GVWR greater than 26,000 lbs.)), 78 (Unknown medium/heavy truck type), or 99 (Unknown Body Type).</i></b> |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                     | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>VP40</b>     | <b>vPIC BODY CLASS equals 074 (Incomplete - Chassis Cab (Number of Cab Unknown)), 070 (Incomplete - Chassis Cab (Double Cab)), 063 (Incomplete - Chassis Cab (Single Cab)), 112 (Incomplete - Commercial Chassis), 067 (Incomplete - Stripped Chassis), 065 (Incomplete), 064 (Incomplete - Glider), 062 (Incomplete - Cutaway) and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 11-12,</b> | <b>NCSA BODY TYPE must equal 01 (Convertible (excludes sunroof, t-bar)), 02 (2-Door Sedan, Hardtop, Coupe), 03 (3-Door/2-Door Hatchback), 04 (4-Door Sedan, Hardtop), 05 (5-Door/4-Door Hatchback), 06 (Station Wagon (excluding van and truck based), 07 (Hatchback, Number of Doors Unknown), 08 (Sedan/Hardtop, Number of Doors Unknown), 09 (Other or Unknown Automobile Type), 10 (Auto-Based Pickup), 11 (Auto-Based Panel), 12 (Large Limousine), 13 (Three-Wheel Automobile or Automobile Derivative), 14 (Compact Utility), 15 (Large Utility), 16 (Utility Station Wagon), 17 (3-Door Coupe), 19 (Utility Vehicle, Unknown Body Type), 20 (Minivan), 21 (Large Van), 22 (Step-van or walk-in van (GVWR less than or equal to 10,000 lbs.)), 28 (Other van type), 29 (Unknown Van Type), 33 (Convertible pickup), 34 (Light Pickup), 39 (Unknown (pickup style) light conventional truck type), 40 (Cab Chassis Based), 41 (Truck Based Panel), 45 (Other light conventional truck type), 48 (Unknown light truck type), 49 (Unknown light vehicle type).</b> |
| <b>VP41</b>     | <b>vPIC BODY CLASS equals 011 (Truck), and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 11-12,</b>                                                                                                                                                                                                                                                                                          | <b>NCSA BODY TYPE must equal 40 (Cab Chassis Based), 41 (Truck Based Panel), 45 (Other light conventional truck type), 48 (Unknown light truck type), or 49 (Unknown light vehicle type).</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>VP42</b>     | <b>vPIC BODY CLASS equals 060 (Pickup) and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 13-18,</b>                                                                                                                                                                                                                                                                                          | <b>NCSA BODY TYPE should equal 67 (Medium/Heavy Pickup (GVWR greater than 10,000 lbs.)).</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>VP43</b>     | <b>vPIC BODY CLASS equals 060 (Pickup) and POWER UNIT GVWR_From and POWER UNIT GVWR_To equals 11 or 12,</b>                                                                                                                                                                                                                                                                                   | <b>NCSA BODY TYPE must equal 10 (Auto-Based Pickup), 33 (Convertible pickup), 34 (Light Pickup), or 39 (Unknown (pickup style) light conventional truck type).</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |



| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                        | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>VP45</b>     | <b>vPIC BODY CLASS equals 009 (Van), 095 (Cargo Van), or 015 (Wagon), and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 13-18,</b>                                                                                                                                                                                              | <b>NCSA BODY TYPE must equal 55 (Van-Based Bus GVWR greater than 10,000 lbs.) or 61 (Single-Unit Straight Truck or Cab-chassis (GVWR range 10,001 to 19,500 lbs.)), 62 (Single-Unit Straight Truck or Cab-chassis (GVWR range 19,501 to 26,000 lbs.)), 63 (Single-Unit Straight Truck or Cab-chassis (GVWR greater than 26,000 lbs.)), or 64 (Single-Unit Straight Truck or Cab-Chassis (GVWR unknown)).</b> |
| <b>VP46</b>     | <b>vPIC BODY CLASS equals 009 (Van) or 095 (Cargo Van) and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 11 or 12,</b>                                                                                                                                                                                                          | <b>NCSA BODY TYPE must equal 06 (Station Wagon [excluding van and truck based]), 14 (Compact Utility), 20 (Minivan), 21 (Large Van), 28 (Other van type), or 29 (Unknown van type).</b>                                                                                                                                                                                                                      |
| <b>VP47</b>     | <b>vPIC BODY CLASS equals 016 (Bus), 107 (Incomplete - Bus Chassis), 076 (Incomplete - Motor Coach Chassis), 077 (Incomplete - Shuttle Bus Chassis), 072 (Incomplete - Commercial Bus Chassis), 075 (Incomplete - Transit Bus Chassis), or 068 (Streetcar/Trolley) and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 13-18,</b> | <b>NCSA BODY TYPE must equal 51 (Cross Country/Intercity Bus), 52 (Transit Bus (City Bus)), 55 (Van-Based Bus GVWR greater than 10,000 lbs.), 58 (Other Bus Type), or 59 (Unknown Bus Type).</b>                                                                                                                                                                                                             |
| <b>VP50</b>     | <b>vPIC BODY CLASS equals 117 (Limousine) and POWER UNIT GVWR_From and POWER UNIT GVWR_To equals 11 or 12,</b>                                                                                                                                                                                                                   | <b>NCSA BODY TYPE must equal 12 (Large Limousine) or 09 (Other or Unknown Automobile Type).</b>                                                                                                                                                                                                                                                                                                              |
| <b>VP52</b>     | <b>vPIC BODY CLASS equals 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 008 (Crossover Utility Vehicle (CUV)), or 119 (Sport Utility Truck (SUT)) and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 11 or 12,</b>                                                                                              | <b>NCSA BODY TYPE must equal 05 (5-Door/4-Door Hatchback), 06 (Station Wagon (excluding van and truck based )), 14 (Compact Utility), 15 (Large Utility), 16 (Utility Station Wagon), 19 (Utility Vehicle, Unknown Body Type), 34 (Light Pickup), 48 (Unknown light truck type), or 49 (Unknown light vehicle type [automobile, utility, van, or light truck]).</b>                                          |
| <b>VP56</b>     | <b>vPIC BODY CLASS equals 016 (Bus), 107 (Incomplete - Bus Chassis), 076 (Incomplete - Motor Coach Chassis), 077 (Incomplete - Shuttle Bus Chassis), 072 (Incomplete - Commercial Bus Chassis), 075 (Incomplete - Transit Bus Chassis), or 068 (Streetcar/Trolley) and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 11-12,</b> | <b>NCSA BODY TYPE must equal 21 (Large Van).</b>                                                                                                                                                                                                                                                                                                                                                             |

| <b>Error ID</b> | <b>IF</b>                                                                                                      | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>VP57</b>     | <b><i>vPIC BODY CLASS equals 117 (Limousine) and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 13-18,</i></b> | <b><i>NCSA BODY TYPE must equal 50 (School Bus), 51 (Cross Country/Intercity Bus), 52 (Transit Bus (City Bus)), 55 (Van-Based Bus GVWR greater than 10,000 lbs.), 58 (Other Bus Type), 59 (Unknown Bus Type), 60 (Step Van (GVWR greater than 10,000 lbs.)), 61 (Single-Unit Straight Truck or Cab-chassis (GVWR range 10,001 to 19,500 lbs.)), 62 (Single-Unit Straight Truck or Cab-chassis (GVWR range 19,501 to 26,000 lbs.)), 63 (Single-Unit Straight Truck or Cab-chassis (GVWR greater than 26,000 lbs.)), 64 (Single-Unit Straight Truck or Cab-Chassis (GVWR unknown)), 66 (Truck-tractor (Cab only or with any number of trailing units; any weight)), 67 (Medium/Heavy Pickup (GVWR greater than 10,000 lbs.)), 71 (Unknown if single-unit or combination unit Medium Truck (GVWR range 10,001 lbs. to 26,000 lbs.)), 72 (Unknown if single-unit or combination unit Heavy Truck (GVWR greater than 26,000 lbs.)), 78 (Unknown medium/heavy truck type), 79 (Unknown truck type (light/medium/heavy)).</i></b> |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                             | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>VP58</b>     | <b><i>vPIC BODY CLASS equals 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 008 (Crossover Utility Vehicle (CUV), or 119 (Sport Utility Truck (SUT) and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 13-18,</i></b> | <b><i>NCSA BODY TYPE must equal 50 (School Bus), 51 (Cross Country/Intercity Bus), 52 (Transit Bus (City Bus)), 55 (Van-Based Bus GVWR greater than 10,000 lbs.), 58 (Other Bus Type), 59 (Unknown Bus Type), 60 (Step Van (GVWR greater than 10,000 lbs.)), 61 (Single-Unit Straight Truck or Cab-chassis (GVWR range 10,001 to 19,500 lbs.)), 62 (Single-Unit Straight Truck or Cab-chassis (GVWR range 19,501 to 26,000 lbs.)), 63 (Single-Unit Straight Truck or Cab-chassis (GVWR greater than 26,000 lbs.)), 64 (Single-Unit Straight Truck or Cab-Chassis (GVWR unknown)), 66 (Truck-tractor (Cab only or with any number of trailing units; any weight)), 67 (Medium/Heavy Pickup (GVWR greater than 10,000 lbs.)), 71 (Unknown if single-unit or combination unit Medium Truck (GVWR range 10,001 lbs. to 26,000 lbs.)), 72 (Unknown if single-unit or combination unit Heavy Truck (GVWR greater than 26,000 lbs.)), 78 (Unknown medium/heavy truck type), 79 (Unknown truck type (light/medium/heavy), or 99 (Unknown Body Type).</i></b> |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>THEN</b>                                                                                               |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>VP66</b>     | <b>vPIC BODY CLASS equals 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport/Adventure/Supermoto/On/Off-Road), 086 (Off-road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 088 (Off-road Vehicle - Go Kart), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 097 (Off-road Vehicle - Snowmobile), 098 (Motorcycle - Street), 100 (Motorcycle - Enclosed Three Wheeled/Enclosed Autocycle), 103 (Motorcycle - Unenclosed Three Wheeled/Open Autocycle), 104 (Motorcycle - Moped), 105 (Off-road Vehicle - Recreational Off-Road Vehicle (ROV)), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motocross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 124 (Off-road Vehicle - Golf Cart), or 125 (Motorcycle - Unknown Body Type),</b> | <b>POWER UNIT GVWR_From and POWER UNIT GVWR_To must equal 11 or 99.</b>                                   |
| <b>VP67</b>     | <b>vPIC BODY CLASS equals 001 (Convertible/Cabriolet), 003 (Coupe), 005 (Hatchback/Liftback/Notchback), 010 (Roadster), or 013 (Sedan/Saloon)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>POWER UNIT GVWR_From and POWER UNIT GVWR_To must equal 11 or 12.</b>                                   |
| <b>VP68</b>     | <b>vPIC BODY CLASS equals 002 (Minivan), 008 (Crossover Utility Vehicle (CUV)), or 119 (Sport Utility Truck (SUT)),</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>POWER UNIT GVWR_From and POWER UNIT GVWR_To must equal 11, 12, 98, or 99.</b>                          |
| <b>VP69</b>     | <b>vPIC BODY CLASS equals 060 (Pickup) or 095 (Cargo Van),</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>POWER UNIT GVWR_From and POWER UNIT GVWR_To should equal 11, 12, 13, 14, 98, or 99.</b>                |
| <b>VP83</b>     | <b>POWER UNIT GVWR_From and POWER UNIT GVWR_To equal 13-18</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>MOTOR CARRIER IDENTIFICATION NUMBER, VEHICLE CONFIGURATION, and CARGO BODY TYPE must not equal 00.</b> |
| <b>VP85</b>     | <b>VEHICLE TRAILING equals 0 and POWER UNIT GVWR_From and POWER UNIT GVWR_To are either 11 or 12 and HM2 does not equal 2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>VEHICLE CONFIGURATION must equal 00, 20, or 99, and CARGO BODY TYPE must equal 00 or 22.</b>           |

| <b>Error ID</b> | <b>IF</b>                                                                                                      | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>VP90</b>     | <b><i>vPIC BODY CLASS equals 015 (Wagon), and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 11 or 12,</i></b> | <b><i>NCSA BODY TYPE must equal code 03 (3-Door/2-Door Hatchback), 05 (5-Door/4-Door Hatchback), 06 (Station Wagon (excluding van and truck based)), 09 (Other or Unknown Automobile Type), 14 (Compact Utility), 15 (Large Utility), 16 (Utility Station Wagon), 20 (Minivan), 19 (Utility Vehicle, Unknown Body Type), 21 (Large Van), 28 (Other van type), 29 (Unknown van type), 48 (Unknown light truck type), or 49 (Unknown light vehicle type).</i></b> |

## V19 - Vehicle Trailing

**FORMAT:** 1 numeric

**SAS NAME:** Vehicle.TOW\_VEH, Person.TOW\_VEH, Parkwork.PTRAILER

**ELEMENT VALUES:**

| Codes | Attributes                                                               |
|-------|--------------------------------------------------------------------------|
| 0     | <a href="#">No Trailing Units</a>                                        |
| 1     | <a href="#">One Trailing Unit</a>                                        |
| 2     | <a href="#">Two Trailing Units</a>                                       |
| 3     | <a href="#">Three or more Trailing Units</a>                             |
| 4     | <a href="#">Yes, Number of Trailing Units Unknown</a>                    |
| 5     | <a href="#">Vehicle Towing Another Motor Vehicle - Fixed Linkage</a>     |
| 6     | <a href="#">Vehicle Towing Another Motor Vehicle - Non-Fixed Linkage</a> |
| 9     | <a href="#">Unknown</a>                                                  |

**Definition:** This element identifies whether *this* vehicle had any attached trailing units or was towing another motor vehicle.

**Remarks:** Trailing unit applies to any device connected to a motor vehicle by a hitch, including tractor-trailer combinations, a single-unit truck pulling a trailer (truck trailer), a boat trailer hitched onto a motor vehicle, etc. If the case material does not provide sufficient information if the linkage was fixed or not, consider the linkage as fixed.

A vehicle towing another motor vehicle is not considered to be a trailer but is considered to be a towed vehicle (see [5 \(Vehicle Towing Another Motor Vehicle - Fixed Linkage\)](#) or [6 \(Vehicle Towing Another Motor Vehicle - Non-Fixed Linkage\)](#)). A converter dolly is a device used to hitch a trailer to another semi-trailer or straight truck and is not counted as a separate trailing unit. For combination vehicles (medium/heavy trucks), count only the cargo-carrying units.

**0 (No Trailing Units)** is used when this vehicle was not pulling or towing a wheeled unit.

**1 (One Trailing Unit)** is used when one trailer was being pulled by this vehicle.

**2 (Two Trailing Units)** is used when this vehicle was pulling two trailers.

**3 (Three or More Trailing Units)** is used when this vehicle was pulling three or more trailers.

**4 (Yes, Number of Trailing Units Unknown)** is used when it is known that there was a trailer(s), but the number of trailers cannot be determined.

**5 (Vehicle Towing Another Motor Vehicle - Fixed Linkage)** is used to identify that a vehicle was towing another motor vehicle(s) connected by a fixed linkage. The towed vehicle will have two or more wheels on the ground. This will most commonly apply to drive-away/tow-away tow trucks. These are vehicles equipped with a mechanism designed to be attached to a towed vehicle (e.g., hoist). This attribute would also be used for saddle-mounted towed vehicles. An example

of a saddle-mount unit would be a bobtail towing one or more other bobtails. This attribute does not apply to vehicles towed by being loaded on a flatbed or auto transporter.

**6 (Vehicle Towing Another Motor Vehicle - Non-Fixed Linkage)** is used to identify that a vehicle was towing another motor vehicle(s) connected by a non-fixed linkage. A non-fixed linkage includes ropes, chains, or cables.

**9 (Unknown)** is used when it cannot be determined from any information if a unit was being pulled or towed.

#### FARS SPECIAL INSTRUCTION:

For vehicles being towed by an illegal hitch (rope, chain, cable), use the [022 \(Towing or Pushing Improperly\)](#) in the data element [RELATED FACTORS-DRIVER LEVEL](#).

#### Consistency Checks ([See Section 400](#)):

| Error ID | IF                                                                                       | THEN                                                                               |
|----------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 2B0P     | JACKKNIFE equals 1-3,                                                                    | VEHICLE TRAILING must not equal 0, 9.                                              |
| 4E1P     | VEHICLE TRAILING equals 4,                                                               | TRAILER VEHICLE IDENTIFICATION NUMBER must not equal 7s for any of the three sets. |
| 4F3P     | NUMBER OF OCCUPANTS is 01-98, and <b>vPIC BODY CLASS</b> equals <b>117 (Limousine)</b> , | NUMBER OF OCCUPANTS <i>should</i> not be greater than <b>16</b> .                  |
| 4R0P     | SEATING POSITION equals 54,                                                              | VEHICLE TRAILING must not equal 0 or 9.                                            |
| 5B0Q     | JACKKNIFE equals 0,                                                                      | VEHICLE TRAILING must equal 0, 5, 6, or 9.                                         |
| AD0P     | VEHICLE CONFIGURATION equals 04, 06-08,                                                  | VEHICLE TRAILING must not equal 0.                                                 |
| AE0P     | VEHICLE CONFIGURATION equals 05, and CARGO BODY TYPE does not equal 12,                  | VEHICLE TRAILING must equal 0.                                                     |
| AL1P     | SEQUENCE OF EVENTS equals 51, 62, 70,                                                    | VEHICLE TRAILING must not equal 0.                                                 |
| CI0P     | VEHICLE TRAILING equals 1-4,                                                             | JACKKNIFE must not equal 0.                                                        |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| V020            | VEHICLE TRAILING equals 1,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>vPIC BODY CLASS</b> should not equal <b>006 (Motorcycle - Standard)</b> , <b>012 (Motorcycle - Scooter)</b> , <b>016 (Bus)</b> , <b>073 (Bus-School Bus)</b> , <b>080 (Motorcycle - Sport)</b> , <b>081 (Motorcycle - Touring / Sport Touring)</b> , <b>082 (Motorcycle - Cruiser)</b> , <b>083 (Motorcycle - Trike)</b> , <b>084 Off-road Vehicle - Dirt Bike / Off-Road)</b> , <b>085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road)</b> , <b>086 (Off-road Vehicle - Enduro (Off-road long-distance racing))</b> , <b>087 (Motorcycle - Small / Minibike)</b> , <b>088 (Off-road Vehicle - Go Kart)</b> , <b>090 (Motorcycle - Side Car)</b> , <b>094 (Motorcycle - Custom)</b> , <b>097 (Off-road Vehicle - Snowmobile)</b> , <b>098 (Motorcycle - Street)</b> , <b>100 (Motorcycle - Enclosed Three Wheeled / Enclosed Autocycle)</b> , <b>103 (Motorcycle - Unenclosed Three Wheeled / Open Autocycle)</b> , <b>104 (Motorcycle - Moped)</b> , <b>109 (Motorcycle - Cross Country)</b> , <b>110 (Motorcycle - Underbone)</b> , <b>113 (Off-road Vehicle - Motocross (Off-road short distance, closed track racing))</b> , <b>114 (Motorcycle - Competition)</b> , <b>125 (Motorcycle - Unknown Body Type)</b> , or <b>996 (Motorized Bicycle)</b> , and <b>FINAL STAGE BODY CLASS</b> should not equal <b>016 (Bus)</b> or <b>073 (Bus-School Bus)</b> . |
| V170            | <b>NUMBER OF OCCUPANTS equals 01-98, and vPIC BODY CLASS equals 001 (Convertible/Cabriolet)</b> , <b>003 (Coupe)</b> , <b>004 (Low Speed Vehicle (LSV) / Neighborhood Electric Vehicle (NEV))</b> , <b>005 (Hatchback/Liftback/Notchback)</b> , <b>010 (Roadster)</b> , <b>013 (Sedan/Saloon)</b> , <b>060 (Pickup)</b> , <b>088 (Off-road Vehicle - Go Kart)</b> , <b>105 (Off-road Vehicle - Recreational Off-Road Vehicle (ROV))</b> , <b>124 (Off-road Vehicle - Golf Cart)</b> , <b>126 (Off-road Vehicle - Farm Equipment)</b> , <b>127 (Off-road Vehicle - Construction Equipment)</b> , or <b>997 (Other)</b> , or <b>FINAL STAGE BODY CLASS equals 004 (Low Speed Vehicle (LSV) / Neighborhood Electric Vehicle (NEV))</b> or <b>060 (Pickup)</b> , | <b>NUMBER OF OCCUPANTS</b> should not be greater than 6.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| V190            | <b>NUMBER OF OCCUPANTS</b> is 01-98, and <b>FINAL STAGE BODY CLASS</b> equals <b>117 (Limousine)</b> ,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>NUMBER OF OCCUPANTS</b> should not be greater than 30.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |



| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>THEN</b>                                                                                                                                         |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| V200            | NUMBER OF OCCUPANTS is 01-98, and <b>vPIC BODY CLASS equals a motorcycle (006, 012, 080, 081, 082, 083, 084, 085, 086, 087, 090, 094, 098, 104, 109, 110, 113, 114, 125, 996), 100 (Motorcycle - Enclosed Three Wheeled / Enclosed Autocycle), 103 (Motorcycle - Unenclosed Three Wheeled / Open Autocycle), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), or 097 (Off-road Vehicle - Snowmobile),</b> | NUMBER OF OCCUPANTS should not be greater than <b>15</b> .                                                                                          |
| V210            | NUMBER OF OCCUPANTS is 01-98, <b>vPIC BODY CLASS equals 002 (Minivan), 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 008 (Crossover Utility Vehicle (CUV)), 009 (Van), 15 (Wagon), or 119 (Sport Utility Truck (SUT)), or FINAL STAGE BODY CLASS equals 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 008 (Crossover Utility Vehicle (CUV)), 15 (Wagon), or 119 (Sport Utility Truck),</b>    | NUMBER OF OCCUPANTS should not be greater than <b>15</b> .                                                                                          |
| V220            | NUMBER OF OCCUPANTS is 01-98, and <b>vPIC BODY CLASS equals 011 (Truck), 066 (Truck-Tractor), 095 (Cargo Van), 111 (Step Van / Walk-in Van), or FINAL STAGE BODY CLASS equals 011 (Truck), 066 (Truck-Tractor), 095 (Cargo Van), or 111 (Step Van / Walk-in Van),</b>                                                                                                                                                           | NUMBER OF OCCUPANTS should not be greater than <b>4</b> .                                                                                           |
| V260            | <b>vPIC BODY CLASS equals 999 (Unknown),</b>                                                                                                                                                                                                                                                                                                                                                                                    | NUMBER OF OCCUPANTS <b>should equal 0-10 or 99</b> .                                                                                                |
| V310            | SEATING POSITION equals 54 and VEHICLE TRAILING equals 1-4,                                                                                                                                                                                                                                                                                                                                                                     | AIR BAG DEPLOYED must equal <b>20</b> .                                                                                                             |
| V59P            | VEHICLE CONFIGURATION equals 06,                                                                                                                                                                                                                                                                                                                                                                                                | <b>vPIC BODY CLASS must equal 066 (Truck-Tractor), or FINAL STAGE BODY CLASS must equal 066 (Truck-Tractor), and VEHICLE TRAILING must equal 1.</b> |
| V60P            | VEHICLE CONFIGURATION equals 07,                                                                                                                                                                                                                                                                                                                                                                                                | <b>vPIC BODY CLASS must equal 066 (Truck-Tractor), or FINAL STAGE BODY CLASS must equal 066 (Truck-Tractor), and VEHICLE TRAILING must equal 2.</b> |
| V61P            | VEHICLE CONFIGURATION equals 08,                                                                                                                                                                                                                                                                                                                                                                                                | <b>vPIC BODY CLASS must equal 066 (Truck-Tractor), or FINAL STAGE BODY CLASS must equal 066 (Truck-Tractor), and VEHICLE TRAILING must equal 3.</b> |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                      | <b>THEN</b>                                                                                     |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| V68P            | CARGO BODY TYPE equals 12,                                                                                                                                                                                                     | VEHICLE TRAILING must equal 5.                                                                  |
| V810            | <i><b>vPIC BODY CLASS equals 060 (Pickup), or FINAL STAGE BODY CLASS equals 060 (Pickup), and POWER UNIT GVWR_From equals 13, 14, or 15, and POWER UNIT GVWR_To equals 13, 14, or 15, and VEHICLE TRAILING equals 1-4,</b></i> | VEHICLE CONFIGURATION should equal 04, and CARGO BODY TYPE should equal 01, 03, 04, 09.         |
| V915            | <i><b>vPIC BODY CLASS equals 060 (Pickup), or FINAL STAGE BODY CLASS equals 060 (Pickup), and POWER UNIT GVWR_From_ and GVWR_To equals 13-18, and VEHICLE TRAILING equals 0,</b></i>                                           | VEHICLE CONFIGURATION should equal 01, and CARGO BODY TYPE should equal 97.                     |
| V985            | VEHICLE TRAILING equals 5,                                                                                                                                                                                                     | VEHICLE CONFIGURATION should not equal 00, 10, 19-21.                                           |
| V991            | VEHICLE TRAILING equals 0,                                                                                                                                                                                                     | VEHICLE CONFIGURATION must not equal 04, 06-08.                                                 |
| V992            | VEHICLE TRAILING equals 1,                                                                                                                                                                                                     | VEHICLE CONFIGURATION must not equal 01, 02, 05, 07, or 08.                                     |
| V993            | VEHICLE TRAILING equals 2,                                                                                                                                                                                                     | VEHICLE CONFIGURATION must not equal 01, 02, 05, 06, or 08.                                     |
| V994            | VEHICLE TRAILING equals 3,                                                                                                                                                                                                     | VEHICLE CONFIGURATION must not equal 01, 02, 05-07.                                             |
| V995            | VEHICLE TRAILING equals 4,                                                                                                                                                                                                     | VEHICLE CONFIGURATION must not equal 01, 02, 05-08.                                             |
| V997            | VEHICLE TRAILING equals 6,                                                                                                                                                                                                     | VEHICLE CONFIGURATION must not equal 04, 06-08.                                                 |
| V998            | VEHICLE TRAILING equals 9,                                                                                                                                                                                                     | VEHICLE CONFIGURATION must not equal 04-07 or 08.                                               |
| <b>VP79</b>     | <b>VEHICLE TRAILING equals 1,</b>                                                                                                                                                                                              | <b>TRAILER VEHICLE IDENTIFICATION NUMBER must equal 7s for only two sets.</b>                   |
| <b>VP80</b>     | <b>VEHICLE TRAILING equals 2,</b>                                                                                                                                                                                              | <b>TRAILER VEHICLE IDENTIFICATION NUMBER must equal 7s for only one set.</b>                    |
| <b>VP81</b>     | <b>VEHICLE TRAILING equals 3,</b>                                                                                                                                                                                              | <b>TRAILER VEHICLE IDENTIFICATION NUMBER must not equal to 7s for any set.</b>                  |
| <b>VP85</b>     | <b>VEHICLE TRAILING equals 0 and POWER UNIT GVWR_From and POWER UNIT GVWR_To are either 11 or 12 and HM2 does not equal 2</b>                                                                                                  | <b>VEHICLE CONFIGURATION must equal 00, 20, or 99, and CARGO BODY TYPE must equal 00 or 22.</b> |

**Consistency Check (CRSS Only) ([See Section 400](#)):**

| <b>Error ID</b> | <b>IF</b>                  | <b>THEN</b>                      |
|-----------------|----------------------------|----------------------------------|
| V986            | VEHICLE TRAILING equals 3, | PSU should equal OH, OK, SD, UT. |

**Consistency Checks (FARS Only) ([See Section 400](#)):**

| <b>Error ID</b> | <b>IF</b>                                                      | <b>THEN</b>                                                  |
|-----------------|----------------------------------------------------------------|--------------------------------------------------------------|
| V16P            | RELATED FACTORS-DRIVER LEVEL equals 088,                       | VEHICLE TRAILING must not equal 0, 9.                        |
| V983            | VEHICLE TRAILING equals 3,                                     | STATE should equal 04, 08, 16, 18, 20, 30-32, 38-41, 46, 49. |
| V984            | STATE does not equal 04, 08, 16, 18, 20, 30-32, 38-41, 46, 49, | VEHICLE TRAILING should not equal 3.                         |

## V20 - Trailer Vehicle Identification Number

**FORMAT:** 3 sets, 17 alphanumeric

**SAS NAME:** Vehicle.TRLR1VIN, Vehicle.TRLR2VIN, Vehicle.TRLR3VIN, ***PTRLR1VIN, PTRLT2VIN, PTRLT3VIN***

**ELEMENT VALUES:**

| Codes              | Attributes                                                |
|--------------------|-----------------------------------------------------------|
| 000000000000000000 | <a href="#">No VIN Required</a>                           |
| --                 | Any Alphanumeric Characters - Actual VIN                  |
| 7777777777777777   | No Trailing Units                                         |
| 8888888888888888   | <a href="#">Not Reported</a>                              |
| 9999999999999999   | <a href="#">Reported as Unknown</a>                       |
| *                  | <a href="#">VIN Character Missing or Not Decipherable</a> |

**Definition:** This element records the vehicle identification number (VIN) or alphanumeric identifier in the case material of any trailing units of a combination vehicle.

**Remarks:** *SEE ADDITIONAL REMARKS UNDER [vPIC MAKE / vPIC MODEL / vPIC BODY CLASS OVERVIEW](#).*

VINs for the power unit are not coded in this element. See [VEHICLE IDENTIFICATION NUMBER](#) to record the VIN of the power unit.

Code the complete VIN of any trailing units of a combination vehicle (up to three trailing units). The number of VIN fields available to code is system-generated based on the presence of a trailer or trailers in the element [VEHICLE TRAILING](#). For example, if VEHICLE TRAILING equals [0 \(No Trailing Units\)](#), [5 \(Vehicle Towing Another Motor Vehicle - Fixed Linkage\)](#), [6 \(Vehicle Towing Another Motor Vehicle - Non-Fixed Linkage\)](#), or [9 \(Unknown\)](#) then TRAILER VEHICLE IDENTIFICATION NUMBER is auto-filled with **7s (No Trailing Units)**. If VEHICLE TRAILING equals [1 \(One Trailing Unit\)](#) then one TRAILER VEHICLE IDENTIFICATION NUMBER set of 17 alphanumeric characters is available to code and the remaining two are 7-filled by the system.

The VIN is always left-justified.

If the VIN for any trailing unit of a combination vehicle is not available, code [8s \(Not Reported\)](#) here. For example, if a truck tractor semi-trailer combination has no VIN information for the trailer, code [8s \(Not Reported\)](#) in the available field. If a truck tractor double-trailer combination has VIN information for only one of the two trailers, code the known VIN in the first field and [8s \(Not Reported\)](#) in the second TRAILER VEHICLE IDENTIFICATION NUMBER field.

The Vehicle Identification Number (VIN) standards are described in [49 CFR Part 565](#). This standard requires that each VIN have 17 characters, not contain the letter “I,” “O,” or “Q,” and pass a mathematical test (check digit). This data element may also be used to record non-

standard VINs. See instruction under [\*\*\\* \(VIN Character Missing or Not Decipherable\)\*\*](#) for missing or illegible characters.

For a 17-character VIN that produces check digit errors, first attempt to resolve the error. If it cannot be resolved, record the VIN as provided and override any edit checks with explanation. See instruction under [\*\*\\* \(VIN Character Missing or Not Decipherable\)\*\*](#) for missing or illegible characters.

Only enter [\*\*8s \(Not Reported\)\*\*](#) or [\*\*9s \(Reported as Unknown\)\*\*](#) when the entire VIN is missing or reported unknown.

Enter all **0s (No VIN Required)** if the vehicle has a trailer but the trailer is not required to have a VIN as per [49 CFR Part 565](#) Requirements for Trailer Manufacturers. This attribute should only be used for homemade or custom trailers not manufactured for sale to the public.

**NOTE for pre-1981 vehicles:**

If the vehicle is manufactured by the Ford Motor Company and the VIN begins or ends with a script “f,” the script “f” is not entered. Proceed to the next character, as in the example below.

**VIN:** f3U62S100932f

**ENTER:** 3U62S100932

In addition, if any hyphens or periods are contained in the string of alphanumeric characters, ignore them as in the example below.

**VIN:** SM-E.3076421

**ENTER:** SME3076421

**8s (Not Reported) Check to see if 0s (No VIN Required) or 9s (Reported as Unknown) are more appropriate for the situation.**

If a State’s crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered “Not Reported.”

Code **8s (Not Reported)** in these three situations:

1. No field or coding block exists on the State’s crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material), or
2. A field or coding block exists on the State’s crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State’s crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material), or
3. Information on the police crash report has been sanitized/redacted and no other information is available in the case material.

**9s (Reported as Unknown)** is used when the entire trailing unit VIN is reported as Unknown. For example, the police report the vehicle information is unknown for hit-and-run vehicle known to have a trailer(s).

**\* (VIN Character Missing or Not Decipherable)** is used for any VIN character(s) that is (are) missing or not decipherable and the correct character(s) cannot be identified to resolve the VIN for the specific position(s).

**Notes regarding VINs with less than 17 digits:**

- Some vehicles (e.g., custom, pre-1981, imported, or rebuilt vehicles) may have been assigned identification numbers that are less than 17 digits. These should be entered as reported. Do not fill the remaining positions with asterisks “\*.” For example, 8675309.
- If a VIN is reported as less than 17 digits for a vehicle that would normally have 17 digits, and all characters are legible, fill with asterisks “\*” at the end for the missing character(s). For example, 558MEBM23FB\*\*\*\*\*.

**FARS SPECIAL INSTRUCTION:**

If the State will not allow transmittal of a complete standard VIN, code the right-most four characters with asterisks “\*.” The vehicle registration file must be used to verify the VIN.

**Consistency Checks [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                                                                    | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4E1P            | VEHICLE TRAILING equals 4,                                                   | TRAILER VEHICLE IDENTIFICATION NUMBER must not equal 7s for any of the three sets.                                                                                                                                                                                                                                                                                                                                                                          |
| 904P            | TRAILER VEHICLE IDENTIFICATION NUMBER is not equal to all 0s, 7s, 8s, or 9s, | TRAILER VEHICLE IDENTIFICATION NUMBER positions 1-8, 11-14 should equal A-H, J-N, P, R-Z, 0-9, or *; TRAILER VEHICLE IDENTIFICATION NUMBER position 9 should equal 0-9, X, or *; TRAILER VEHICLE IDENTIFICATION NUMBER position 10 should equal A-H, J-N, P, R-T, V-Y, 1-9, or *; TRAILER VEHICLE IDENTIFICATION NUMBER positions 15-17 should equal 0-9 or *.                                                                                              |
| 905P            | TRAILER VEHICLE IDENTIFICATION NUMBER is not equal to all 0s, 7s, 8s, or 9s, | TRAILER VEHICLE IDENTIFICATION NUMBER positions 1-8, 11 should equal A-H, J-N, P, R-Z, 0-9, or *; TRAILER VEHICLE IDENTIFICATION NUMBER position 9 should equal 0-9, X, or *; TRAILER VEHICLE IDENTIFICATION NUMBER position 10 should equal A-H, J-N, P, R-T, V-Y, 1-9, or *; TRAILER VEHICLE IDENTIFICATION NUMBER positions 12-14 should equal A-H, J-N, P, R-Z, 0-9, or *; TRAILER VEHICLE IDENTIFICATION NUMBER positions 15-17 should equal 0-9 or *. |

| <b>Error ID</b> | <b>IF</b>                                                                                               | <b>THEN</b>                                                                                                                                             |
|-----------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| 908P            | TRAILER VEHICLE IDENTIFICATION NUMBER (VIN) does not equal 0s, 7s, 8s, or 9s,                           | <i><b>the trailer VIN decode</b></i> VPIC BODY CLASS must equal “Trailer” or “Incomplete - Trailer Chassis.”                                            |
| U687            | UNLIKELY: TRAILER VEHICLE IDENTIFICATION NUMBER equals 0s for any of the three sets.                    | --                                                                                                                                                      |
| <b>VP70</b>     | <b>TRAILER VEHICLE IDENTIFICATION NUMBER is valid and decodes with error code only in 0, 1, or 400,</b> | <b>TRAILER VEHICLE IDENTIFICATION NUMBER decoded vPIC BODY CLASS must equal 061 (Trailer), 116 (Incomplete - Trailer Chassis), or 065 (Incomplete).</b> |
| <b>VP74</b>     | <b>TRAILER VEHICLE IDENTIFICATION NUMBER equals 7s,</b>                                                 | <b>TRAILER GVWR must equal 77.</b>                                                                                                                      |
| <b>VP75</b>     | <b>TRAILER VEHICLE IDENTIFICATION NUMBER equals 0s,</b>                                                 | <b>TRAILER GVWR must equal 00.</b>                                                                                                                      |
| <b>VP76</b>     | <b>TRAILER VEHICLE IDENTIFICATION NUMBER equals 8s,</b>                                                 | <b>TRAILER GVWR should equal 98.</b>                                                                                                                    |
| <b>VP77</b>     | <b>TRAILER VEHICLE IDENTIFICATION NUMBER equals 9s,</b>                                                 | <b>TRAILER GVWR should equal 99.</b>                                                                                                                    |
| <b>VP78</b>     | <b>TRAILER VEHICLE IDENTIFICATION NUMBER is not equal to 0s, 7s, 8s or 9s,</b>                          | <b>TRAILER GVWR must equal 11-18 or 98.</b>                                                                                                             |
| <b>VP79</b>     | <b>VEHICLE TRAILING equals 1,</b>                                                                       | <b>TRAILER VEHICLE IDENTIFICATION NUMBER must equal 7s for only two sets.</b>                                                                           |
| <b>VP80</b>     | <b>VEHICLE TRAILING equals 2,</b>                                                                       | <b>TRAILER VEHICLE IDENTIFICATION NUMBER must equal 7s for only one set.</b>                                                                            |
| <b>VP81</b>     | <b>VEHICLE TRAILING equals 3,</b>                                                                       | <b>TRAILER VEHICLE IDENTIFICATION NUMBER must not equal to 7s for any set.</b>                                                                          |

## V21 - Trailer Gross Vehicle Weight Rating

FORMAT: 3 sets, 2 alphanumeric

SAS NAME: Vehicle.TRLR1GVWR, Vehicle.TRLR2GVWR, Vehicle.TRLR3GVWR, Parkwork.PTRLR1GVWR, Parkwork.PTRLR2GVWR, Parkwork.PTRLR3GVWR

ELEMENT VALUES:

| Codes | Attributes                                           |
|-------|------------------------------------------------------|
| 00    | <a href="#"><u>No Trailer GVWR Required</u></a>      |
| 11    | Class 1: 6,000 lbs. or less (2,722 kg or less)       |
| 12    | Class 2: 6,001 - 10,000 lbs. (2,722 - 4,536 kg)      |
| 13    | Class 3: 10,001 - 14,000 lbs. (4,536 - 6,350 kg)     |
| 14    | Class 4: 14,001 - 16,000 lbs. (6,350 - 7,258 kg)     |
| 15    | Class 5: 16,001 - 19,500 lbs. (7,258 - 8,845 kg)     |
| 16    | Class 6: 19,501 - 26,000 lbs. (8,845 - 11,794 kg)    |
| 17    | Class 7: 26,001 - 33,000 lbs. (11,794 - 14,969 kg)   |
| 18    | Class 8: 33,001 lbs. and above (14,969 kg and above) |
| 77    | <a href="#"><u>No Trailing Units</u></a>             |
| 98    | <a href="#"><u>Not Reported</u></a>                  |
| 99    | <a href="#"><u>Reported as Unknown</u></a>           |

**Definition:** This element identifies the GVWR of a trailing unit as identified by the manufacturer in the vehicle's VIN.

**Remarks:** SEE ADDITIONAL INFORMATION IN [vPIC MAKE / vPIC MODEL / vPIC BODY CLASS OVERVIEW](#).

**TRAILER GVWR** records the applicable weight range for the trailing unit's GVWR.

If you have the trailer VIN, decode the VIN to obtain the GVWR information.

GVWR is the value specified by the manufacturer as the recommended maximum loaded weight of a trailer. If your State records the GVWR of the power unit and trailer(s) in separate fields, be sure to capture the GVWR of trailers in this element.

00 (No Trailer GVWR Required) should be used if the vehicle has a trailer but the trailer is not required to have a VIN as per [49 CFR Part 565](#) Requirements for Trailer Manufacturers. This attribute should only be used for homemade or custom trailers not manufactured for sale to the public.

77 (No Trailing Units) should be used if the vehicle has no trailing units. This is populated by the RBIS application based on the coding of the VEHICLE TRAILING data element.



## 98 (Not Reported)

*Code 98 (Not Reported) in these two situations:*

1. *No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).*
2. *A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).*

*If a State's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "Not Reported."*

*99 (Reported as Unknown) should be used when GVWR information is reported as "Unknown" on your police crash report or truck/bus supplement and the decoded VIN is unable to return a value.*

**Consistency Checks** ([See Section 400](#)):

| <b>Error ID</b> | <b>IF</b>                                                               | <b>THEN</b>                          |
|-----------------|-------------------------------------------------------------------------|--------------------------------------|
| VP73            | UNLIKELY: TRAILER GVWR equals 0s for any of the three sets.             | --                                   |
| VP74            | TRAILER VEHICLE IDENTIFICATION NUMBER equals 7s,                        | TRAILER GVWR must equal 77.          |
| VP75            | TRAILER VEHICLE IDENTIFICATION NUMBER equals 0s,                        | TRAILER GVWR must equal 00.          |
| VP76            | TRAILER VEHICLE IDENTIFICATION NUMBER equals 8s,                        | TRAILER GVWR should equal 98.        |
| VP77            | TRAILER VEHICLE IDENTIFICATION NUMBER equals 9s,                        | TRAILER GVWR should equal 99.        |
| VP78            | TRAILER VEHICLE IDENTIFICATION NUMBER is not equal to 0s, 7s, 8s or 9s, | TRAILER GVWR must equal 11-18 or 98. |

## V22 - Jackknife

**FORMAT:** 1 numeric

**SAS NAME:** Vehicle.J\_KNIFE

**ELEMENT VALUES:**

| Codes | Attributes                                 |
|-------|--------------------------------------------|
| 0     | <a href="#">Not an Articulated Vehicle</a> |
| 1     | <a href="#">No</a>                         |
| 2     | <a href="#">Yes - First Event</a>          |
| 3     | <a href="#">Yes - Subsequent Event</a>     |

**Definition:** This element identifies if this vehicle experienced a “jackknife” anytime during the unstabilized situation.

**Remarks:** A jackknife can occur at any time during the crash sequence. This element is applicable for all power unit/trailing unit combinations (truck tractor or single-unit truck with one or more trailers, articulated bus, car pulling a boat on a trailer, light utility vehicle/trailing unit combination, etc.).

Jackknife applies to a condition that occurs to an articulated vehicle; any vehicle with a trailing unit connected by a hitch (fixed linkage) while in motion. A jackknife occurs when there is an uncontrolled articulation between the power unit and the trailing unit in which the trailing unit does not follow directly behind the power unit (tracking), and the driver did not initiate the non-tracking situation. The condition reflects a loss of control of the vehicle by the driver in which the trailing units’ normal straight-line path behind the power unit is not maintained.

If the final resting configuration of the vehicle in the police crash report diagram is in a jackknife position, it does not necessarily mean that the vehicle has jackknifed. Turning and backing are examples of driver initiated non-tracking-controlled articulation and are not coded as a jackknife.

In the case material, the terms “tractor jackknife” or “trailer swing” may be used to describe particular incidences of uncontrolled articulation. Either incident shall be coded as JACKKNIFE.

A jackknife is not likely to be a harmful event but may be part of an unstabilized condition just before the [FIRST HARMFUL EVENT](#).

**0 (Not an Articulated Vehicle)** is used when this vehicle is not a vehicle-trailing unit combination. This attribute can also be used when coding a hit-and-run vehicle when there is not an indication in the case material that the hit-and-run vehicle had a trailer.

**1 (No)** is used when no uncontrolled articulation was reported between a vehicle and a trailing unit.

**2 (Yes - First Event)** is used when an uncontrolled articulation was reported as occurring before or as part of the first injury or damage producing event for this vehicle.

**3 (Yes - Subsequent Event)** is used when an uncontrolled articulation occurs after the first injury or damage producing event for this vehicle.

**Consistency Checks [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                         | <b>THEN</b>                                                                                                       |
|-----------------|-----------------------------------|-------------------------------------------------------------------------------------------------------------------|
| 2B0P            | JACKKNIFE equals 1-3,             | VEHICLE TRAILING must not equal 0, 9.                                                                             |
| 3B0P            | JACKKNIFE equals 2, 3,            | TRAVEL SPEED must not equal 000.                                                                                  |
| 5B0Q            | JACKKNIFE equals 0,               | VEHICLE TRAILING must equal 0, 5, 6, or 9.                                                                        |
| 7B0F            | JACKKNIFE equals 2, 3,            | DRIVER PRESENCE must equal 1.                                                                                     |
| AK00            | CARGO BODY TYPE equals 22, 96,    | JACKKNIFE should equal 0.                                                                                         |
| AL8P            | SEQUENCE OF EVENTS equals 51, 70, | JACKKNIFE must equal 2, 3.                                                                                        |
| CI0P            | VEHICLE TRAILING equals 1-4,      | JACKKNIFE must not equal 0.                                                                                       |
| V538            | JACKKNIFE equals 2,               | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must not equal 04, 05, 07-09, or 13 for this vehicle. |
| VH70            | UNIT TYPE equals 2-4,             | elements JACKKNIFE, TRAVEL SPEED, AND SEQUENCE OF EVENTS must all be left blank.                                  |

## V23 - Motor Carrier Identification Number

**FORMAT:** 1 set 2 numeric, 1 set 9 alphanumeric

**SAS NAME:** Vehicle.MCARR\_ID, Parkwork.PMCARR\_ID, Vehicle.MCARR\_I1, Parkwork.PMCARR\_I1, Vehicle.MCARR\_I2, Parkwork.PMCARR\_I2

### ELEMENT VALUES:

#### Issuing Authority:

| Codes | Attributes                     |
|-------|--------------------------------|
| 00    | <a href="#">Not Applicable</a> |
| 01-56 | <a href="#">State Code</a>     |
| 57    | <a href="#">US DOT</a>         |
| 58    | <a href="#">MC/MX (ICC)</a>    |
| 95    | <a href="#">Canada</a>         |
| 96    | <a href="#">Mexico</a>         |
| 88    | <a href="#">None</a>           |
| 77    | <a href="#">Not Reported</a>   |
| 99    | <a href="#">Unknown</a>        |

#### Identification Number:

| Codes | Attributes     |
|-------|----------------|
| --    | Actual Number  |
| 0s    | Not Applicable |
| 8s    | None           |
| 7s    | Not Reported   |
| 9s    | <b>Unknown</b> |

**Definition:** This element records the issuing authority and motor carrier identification number if applicable to this vehicle.

**Remarks:** The motor carrier identification number is recorded on the truck supplement or police crash report next to the appropriate Source (Issuing Authority). This information should be available on your police crash report or truck and bus supplement with other elements required by the Federal Motor Carrier Safety Administration (FMCSA). *See the [Coding Guide: Qualifying Vehicles for Elements V23-V25](#) for helpful information.*

**The following are qualifying motor vehicles for this data element:**

1. A **vehicle** pulling a trailer with gross combination weight rating (GCWR) greater than 10,000 lbs.
2. A **single vehicle with a** GVWR greater than 10,000 lbs.
3. A Vehicle with 9 or more seats (including the driver).
4. A Vehicle displaying a hazardous materials placard.

**00/0s (Not Applicable)** is used when none of the qualifying criteria above apply to this vehicle. When this attribute is used, **VEHICLE CONFIGURATION** and **CARGO BODY TYPE** must also be Not Applicable.

#### **FARS SPECIAL INSTRUCTION:**

***If your State uses separate truck/bus supplements, you should seek help to get routine access to them, just as with your State's police crash report. Your State's SAFETynet representative may be able to provide a Motor Carrier Identification Number.***

Federal regulations require that almost all commercial trucks/buses operating across State lines that meet the above criteria (i.e., interstate) have identification numbers except those hauling "exempt" commodities (such as unprocessed agricultural products). This will be a U.S. DOT or MC/MX (ICC) number. Some States issue "Intrastate" motor carriers a State number that can also be recorded here.

**Identification Number should be left justified.** If less than 9 characters, left-justify and do not zero-fill.

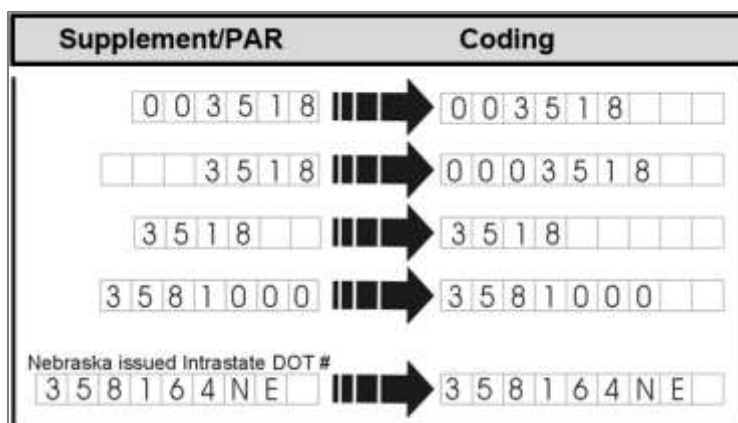


*Figure 13: Examples of Left-Justified Coding of Motor Carrier Identification Number*

**Note:** Many carriers will have a U.S. DOT or MC/MX (ICC) number plus a State number.

**HIERARCHY:** When identification numbers are available from more than one Source (Issuing Authority), it is most important to code the U.S. DOT number, then the MC/MX (ICC) number if one is available. It is next most important to code the Mexican or Canadian issued number. Finally, State-issued numbers should be coded.

**57 (US DOT NUMBERS):** U.S. DOT is used in "Issuing Authority" if a U.S. DOT Number or a State Number and U.S. DOT Number are recorded on the police crash report or Supplement. Enter the U.S. DOT Number in "Identification Number."

- U.S. DOT Numbers are in the process of being assigned to Intrastate motor carriers in a number of States. These should include the issuing State's two-character abbreviation on the end; e.g., U.S. DOT 123456XX (where "XX" is the State abbreviation). See example of proper coding in [Figure 13](#).

**58 (MC/MX (ICC) NUMBERS):** MC/MX (ICC) is used in "Issuing Authority" if an MC/MX (ICC) number or a State Number and an MC/MX (ICC) Number are recorded on the police crash report or supplement. Enter the MC/MX (ICC) Number in "Identification Number."

**STATE NUMBERS:** If only a State Number is recorded on the police crash report or Supplement, then code the appropriate FARS State Code in "Issuing Authority" and enter the State Number in "Identification Number."

State Numbers are issued by a public utility commission, a public service commission, or some other State agency, to vehicles that operate either in interstate commerce or only within that State. However, some States do not regulate the motor carrier industry. Trucks and buses that operate strictly within such States (i.e., intrastate) may not have numbers.

**CANADIAN/MEXICAN NUMBERS:** Use attributes "95" or "96" in "Issuing Authority" if a Canadian or Mexican authority (respectively) has issued the only Carrier Identification Number recorded on the police crash report or Supplement.

**88/8s (None)** is used when you would expect this type of vehicle to have an ID Number because the qualifying criteria above apply to this vehicle, but there is no Motor Carrier Identification number to record or the case material states "No Number." This can occur because the vehicle is not properly marked or because its use or activity at the time of the crash does not require it to have a number. Examples of vehicles that may not require a number include construction or farm equipment, vehicles operated strictly intrastate in a State that does not regulate intrastate carriers, government owned/operated vehicles, and personal use vehicles (i.e., non-commercial).

**99/9s (Unknown)** is used if:

- the investigating officer *indicates that* the MOTOR CARRIER IDENTIFICATION NUMBER *is* unknown; *and*
- the [NCSA BODY TYPE](#) of the vehicle is unknown *or not reported; or*
- *it cannot be determined if the vehicle qualifies for this data element (e.g., a light pickup truck pulling a trailer where the GCWR is not known).*

*When this attribute is used, [VEHICLE CONFIGURATION](#) and [CARGO BODY TYPE](#) should also be Unknown. However, it is possible that the officer may know the VEHICLE CONFIGURATION and/or CARGO BODY TYPE but report the MOTOR CARRIER IDENTIFICATION NUMBER as unknown (e.g., hit-and-run truck tractor semi-trailer).*

**77/7s (Not Reported)** For this element, Not Reported is used when the qualifying criteria above DO apply to this vehicle but [88/8s \(None\)](#) does not apply, and:

- *the police crash report or truck supplement leaves the identification number field blank; or*
- *the officer did not complete a supplement or a field on the police crash report (no further information given).*

**Check to see if 00/0s (Not Applicable), 88/8s (None), or 99/9s (Unknown) are more appropriate for the situation.**

If a State's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported.**"

Code 77/7s (**Not Reported**) in these two situations:

1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

**Consistency Checks (See Section 400):**

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                               | <b>THEN</b>                                                                                                                                                            |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4N1P            | VEHICLE CONFIGURATION does not equal 00,                                                                                                                                                | MOTOR CARRIER IDENTIFICATION NUMBER must not equal 00-0000000000.                                                                                                      |
| 4N2P            | MOTOR CARRIER IDENTIFICATION NUMBER equals 00-0000000000,                                                                                                                               | VEHICLE CONFIGURATION must equal 00.                                                                                                                                   |
| 4N3P            | MOTOR CARRIER IDENTIFICATION NUMBER (Identification Number) equals 0000000000,                                                                                                          | MOTOR CARRIER IDENTIFICATION NUMBER (Issuing Authority) must equal 00.                                                                                                 |
| 4N4P            | MOTOR CARRIER IDENTIFICATION NUMBER does not equal 00-0000000000 or 99-9999999999,                                                                                                      | <b><i>POWER UNIT GVWR_From and POWER UNIT GVWR_To must equal 13-18, or VEHICLE TRAILING must equal 1-6, or CARGO BODY TYPE must equal 22, or HM2 must equal 2.</i></b> |
| 4N5P            | <b><i>POWER UNIT GVWR_From and POWER UNIT GVWR_To do not equal 13-18, and VEHICLE TRAILING does not equal 1-6, and CARGO BODY TYPE does not equal 22, and HM2 does not equal 2,</i></b> | MOTOR CARRIER IDENTIFICATION NUMBER must equal 00-0000000000, 99-9999999999.                                                                                           |
| 4N7P            | MOTOR CARRIER IDENTIFICATION NUMBER (Identification Number) equals 8888888888 or 7777777777 or 9999999999,                                                                              | MOTOR CARRIER IDENTIFICATION NUMBER (Issuing Authority) should be filled respectively as 88 or 77 or 99.                                                               |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                  | <b>THEN</b>                                                                                                                                 |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <b>4N8P</b>     | <b><i>any one of the fields MOTOR CARRIER IDENTIFICATION NUMBER, VEHICLE CONFIGURATION, and CARGO BODY TYPE equals Unknown [MOTOR CARRIER IDENTIFICATION NUMBER (99-999999999), VEHICLE CONFIGURATION (99), CARGO BODY TYPE (99)],</i></b> | <b><i>the other two should also equal Unknown and HM1 must equal 1.</i></b>                                                                 |
| 4NAP            | MOTOR CARRIER IDENTIFICATION NUMBER (Issuing Authority) equals 01-58, 95, 96,                                                                                                                                                              | MOTOR CARRIER IDENTIFICATION NUMBER (Identification Number) should not equal 888888888, 777777777, 999999997, 999999999.                    |
| 4NBP            | MOTOR CARRIER IDENTIFICATION NUMBER (Issuing Authority) equals 01-58, 95, 96,                                                                                                                                                              | MOTOR CARRIER IDENTIFICATION NUMBER (Identification Number) must not equal 000000000.                                                       |
| 4NCP            | MOTOR CARRIER IDENTIFICATION NUMBER (Issuing Authority) is 00 or 77 or 88 or 99,                                                                                                                                                           | MOTOR CARRIER IDENTIFICATION NUMBER (Identification Number) must be filled respectively as 000000000 or 777777777 or 88888888 or 999999999. |
| U680            | UNLIKELY: MOTOR CARRIER IDENTIFICATION NUMBER (Identification Number) equals 999999997.                                                                                                                                                    | --                                                                                                                                          |
| V980            | <b><i>POWER UNIT GVWR_From and POWER UNIT GVWR_To equals 13-18, or VEHICLE CONFIGURATION equals 20 or 21, or HM1 equals 2,</i></b>                                                                                                         | MOTOR CARRIER IDENTIFICATION NUMBER must not equal 00-000000000 or 99-999999999.                                                            |
| V981            | VEHICLE CONFIGURATION equals 00,                                                                                                                                                                                                           | MOTOR CARRIER IDENTIFICATION NUMBER <b><i>must</i></b> equal 00-000000000.                                                                  |
| V982            | MOTOR CARRIER IDENTIFICATION NUMBER does not equal 00-000000000,                                                                                                                                                                           | VEHICLE CONFIGURATION <b><i>must</i></b> not equal 00.                                                                                      |
| V987            | <b><i>vPIC MAKE equals 99998 (Not Reported) or 99999 (Unknown) and vPIC MODEL equals 99998 (Not Reported) or 99999 (Unknown) and vPIC BODY CLASS equals 998 (Not Reported) or 999 (Unknown),</i></b>                                       | MOTOR CARRIER IDENTIFICATION NUMBER <b><i>should</i></b> equal 99-999999999.                                                                |



| <b>Error ID</b> | <b>IF</b>                                                                                                                            | <b>THEN</b>                                                                                                      |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| <b>VP83</b>     | <b><i>POWER UNIT GVWR_From and POWER UNIT GVWR_To equal 13-18</i></b>                                                                | <b><i>MOTOR CARRIER IDENTIFICATION NUMBER, VEHICLE CONFIGURATION, and CARGO BODY TYPE must not equal 00.</i></b> |
| <b>VP84</b>     | <b><i>vPIC BODY CLASS equals 073, 066, or 068</i></b>                                                                                | <b><i>MOTOR CARRIER IDENTIFICATION NUMBER, VEHICLE CONFIGURATION, and CARGO BODY TYPE must not equal 00.</i></b> |
| <b>VP85</b>     | <b><i>VEHICLE TRAILING equals 0 and POWER UNIT GVWR_From and POWER UNIT GVWR_To are either 11 or 12 and HM2 does not equal 2</i></b> | <b><i>VEHICLE CONFIGURATION must equal 00, 20, or 99, and CARGO BODY TYPE must equal 00 or 22.</i></b>           |

## V24 - Vehicle Configuration

**FORMAT:** 2 numeric

**SAS NAME:** Vehicle.V\_CONFIG, Parkwork.PV\_CONFIG

**ELEMENT VALUES:**

| Codes | Attributes                                                                      |
|-------|---------------------------------------------------------------------------------|
| 00    | <a href="#">Not Applicable</a>                                                  |
| 10    | <a href="#">Vehicle 10,000 pounds or less placarded for hazardous materials</a> |
| 01    | <a href="#">Single-Unit Truck (2-axle and GVWR more than 10,000 lbs.)</a>       |
| 02    | <a href="#">Single-Unit Truck (3 or more axles)</a>                             |
| 04    | <a href="#">Truck Pulling Trailer(s)</a>                                        |
| 05    | <a href="#">Truck Tractor (Bobtail)</a>                                         |
| 06    | <a href="#">Truck Tractor/Semi-Trailer</a>                                      |
| 07    | <a href="#">Truck Tractor/Double</a>                                            |
| 08    | <a href="#">Truck Tractor/Triple</a>                                            |
| 19    | <a href="#">Truck More Than 10,000 lbs., Cannot Classify</a>                    |
| 20    | <a href="#">Bus/Large Van (seats for 9-15 occupants, including driver)</a>      |
| 21    | <a href="#">Bus (seats for more than 15 occupants, including driver)</a>        |
| 99    | <a href="#">Unknown</a>                                                         |

**Definition:** This element identifies the general configuration of this vehicle when applicable.

**Remarks:** This information should be available on your police crash report or truck and bus supplement with other elements required by the Federal Motor Carrier Safety Administration (FMCSA).

In some States, the data element VEHICLE CONFIGURATION or its attributes may appear under another title, such as: Unit Type, Vehicle Type, Type of Unit, etc. In many States, Vehicle Configuration is recorded for all vehicles. *See the [Coding Guide: Qualifying Vehicles for Elements V23-V25](#) for helpful information.*

***The following are qualifying motor vehicles for this data element:***

1. **A vehicle** pulling a trailer with gross combination weight rating (GCWR) greater than 10,000 lbs.
2. **A single vehicle with a** GVWR greater than 10,000 lbs.
3. **A Vehicle** with 9 or more seats (including the driver).
4. **A Vehicle** displaying a hazardous materials placard.

**00 (Not Applicable)** is used when none of the qualifying criteria above apply to this vehicle. When this attribute is used, [MOTOR CARRIER IDENTIFICATION NUMBER](#) and [CARGO BODY TYPE](#) must also be Not Applicable.

**10 (Vehicle 10,000 Pounds or Less Placarded for Hazardous Materials)** is used for light vehicles (10,000 lbs or less) with at least one hazardous cargo placard displayed. When vehicles in this category are not displaying a hazardous materials placard, use **00 (Not Applicable)**.

**01 (Single-Unit Truck [2-axle and GVWR more than 10,000 lbs.])** is a power unit that includes a permanently mounted cargo body (also called a straight truck) that has only two axles and a GVWR of over 10,000 lbs. This attribute includes pickup trucks without a trailer with a GVWR of over 10,000 lbs. This also includes single-unit trucks towing other vehicles where the towed vehicle has at least two wheels on the ground. (See [CARGO BODY TYPE](#) attribute **12 (Vehicle Towing Another Motor Vehicle)**).

**02 (Single-Unit Truck [3 or more axles])** is a power unit that includes a permanently mounted cargo body (also called a straight truck) that has three or more axles. When counting axles on a single-unit truck, include raised axles. This also includes single-unit trucks towing other vehicles where the towed vehicle has at least two wheels on the ground. (See [CARGO BODY TYPE](#) attribute **12 (Vehicle Towing Another Motor Vehicle)**).

**04 (Truck Pulling Trailer[s])** is used for single-unit trucks pulling a trailer. This attribute includes a pickup truck pulling a trailer with a GCWR of over 10,000 lbs.

**05 (Truck Tractor [Bobtail])** is a motor vehicle consisting of a single motorized transport device designed primarily for pulling semi-trailers (e.g., cab only). These vehicles are sometimes referred to as a “bobtail.” This also includes truck tractors towing other truck tractors in a saddlemount towing position or towing other vehicles where the towed vehicle has at least two wheels on the ground. (See [CARGO BODY TYPE](#) attribute **12 (Vehicle Towing Another Motor Vehicle)**).

**06 (Truck Tractor/Semi-Trailer)** is used for a truck tractor pulling one trailer. This attribute should not be used for single-unit trucks pulling a trailer.

**07 (Truck Tractor/Double)** is used for a truck tractor pulling two trailers.

**08 (Truck Tractor/Triple)** is used for a truck tractor pulling three trailers.

**19 (Truck More Than 10,000 lbs., Cannot Classify)** is used when the vehicle *qualifies for this data element by weight*, but the above attributes do not apply. Examples would include motor homes, construction or farm equipment such as a bulldozer, crane, backhoe, combine, farm tractor, etc. *If the VEHICLE CONFIGURATION is Unknown, see [99 \(Unknown\)](#).*

**20 (Bus/Large Van [seats for 9-15 people, including driver])** is used for smaller van-based buses (less than 16 seats, including driver). Examples include commuter vans and van-based school buses. This attribute would include a limousine with seating capacity in this range.

**21 (Bus [seats for more than 15 occupants, including driver])**. A van-based bus qualifies for this attribute if it is configured to include enough seats. A CDL is required for the driver of this bus. This attribute would include a limousine with seating capacity in this range.

**99 (Unknown)** is used if:

- the investigating officer indicates that the **VEHICLE CONFIGURATION** is unknown;
- *a specific **VEHICLE CONFIGURATION** cannot be identified for a qualifying vehicle (e.g., known bus with unknown seating; known M/H truck with unknown number of axles; a vehicle with one trailer, but it is unknown whether it is a truck tractor semi-trailer or a single-unit truck pulling a trailer, etc.), and*
- the [\*\*NCSA BODY TYPE\*\*](#) of the vehicle is unknown *or not reported, or*
- *when it cannot be determined if the vehicle qualifies for this data element (e.g., a light pickup truck pulling a trailer where the GCWR is not known).*

When this attribute is used, [\*\*MOTOR CARRIER IDENTIFICATION NUMBER\*\*](#) and [\*\*CARGO BODY TYPE\*\*](#) should also be Unknown.

Consistency Checks ([See Section 400](#)):

| Error ID | IF                                                                                                                                                                                                                                                                            | THEN                                                                                                                                                                                                                                                      |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4N1P     | VEHICLE CONFIGURATION does not equal 00,                                                                                                                                                                                                                                      | MOTOR CARRIER IDENTIFICATION NUMBER must not equal 00-000000000.                                                                                                                                                                                          |
| 4N2P     | MOTOR CARRIER IDENTIFICATION NUMBER equals 00-000000000,                                                                                                                                                                                                                      | VEHICLE CONFIGURATION must equal 00.                                                                                                                                                                                                                      |
| 4N8P     | <i>any one of the fields <b>MOTOR CARRIER IDENTIFICATION NUMBER</b>, <b>VEHICLE CONFIGURATION</b>, and <b>CARGO BODY TYPE</b> equals Unknown [<b>MOTOR CARRIER IDENTIFICATION NUMBER</b> (99-999999999), <b>VEHICLE CONFIGURATION</b> (99), <b>CARGO BODY TYPE</b> (99)],</i> | <i>the other two should also equal Unknown and HM1 must equal 1.</i>                                                                                                                                                                                      |
| AB1P     | VEHICLE CONFIGURATION equals 01,                                                                                                                                                                                                                                              | CARGO BODY TYPE must NOT equal 22.                                                                                                                                                                                                                        |
| AD0P     | VEHICLE CONFIGURATION equals 04, 06-08,                                                                                                                                                                                                                                       | VEHICLE TRAILING must not equal 0.                                                                                                                                                                                                                        |
| AE0P     | VEHICLE CONFIGURATION equals 05 and CARGO BODY TYPE does not equal 12,                                                                                                                                                                                                        | VEHICLE TRAILING must equal 0.                                                                                                                                                                                                                            |
| AE1P     | VEHICLE CONFIGURATION equals 05-08,                                                                                                                                                                                                                                           | <i>vPIC BODY CLASS must equal 066 (Truck-Tractor), or FINAL STAGE BODY CLASS must equal 066 (Truck-Tractor).</i>                                                                                                                                          |
| AF1P     | VEHICLE CONFIGURATION equals 20, 21,                                                                                                                                                                                                                                          | CARGO BODY TYPE must equal 22.                                                                                                                                                                                                                            |
| AF2P     | VEHICLE CONFIGURATION equals 20, 21,                                                                                                                                                                                                                                          | <i>vPIC BODY CLASS must equal 009 (Van), 016 (Bus), 068 (Streetcar / Trolley), 073 (Bus-School Bus), 117 (Limousine), or FINAL STAGE BODY CLASS must equal 009 (Van), 016 (Bus), 068 (Streetcar / Trolley), 073 (Bus-School Bus), or 117 (Limousine).</i> |

| <b>Error ID</b> | <b>IF</b>                                             | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AH0P            | VEHICLE CONFIGURATION does not equal 00 <b>or</b> 99, | <b>vPIC BODY CLASS should equal 009 (Van), 011 (Truck), 016 (Bus), 060 (Pickup), 066 (Truck-Tractor), 068 (Streetcar / Trolley), 073 (Bus - School Bus), 095 (Cargo Van), 108 (Motorhome), 111 (Step Van / Walk-in Van), 117 (Limousine), 126 (Off-road Vehicle - Farm Equipment), 127 (Off-road Vehicle - Construction Equipment), or FINAL STAGE BODY CLASS should equal 009 (Van), 011 (Truck), 016 (Bus), 060 (Pickup), 066 (Truck-Tractor), 068 (Streetcar / Trolley), 073 (Bus-School Bus), 095 (Cargo Van), 108 (Motorhome), 111 (Step Van / Walk-in Van), 117 (Limousine), or 997 Other (Specify:), or HM2 should equal 2.</b> |
| V46P            | VEHICLE CONFIGURATION equals 21,                      | <b>vPIC BODY CLASS must equal 009 (Van), 016 (Bus), 068 (Streetcar / Trolley), or 073 (Bus-School Bus), or FINAL STAGE BODY CLASS must equal 016 (Bus), 068 (Streetcar / Trolley), or 073 (Bus-School Bus).</b>                                                                                                                                                                                                                                                                                                                                                                                                                        |
| V470            | VEHICLE CONFIGURATION equals 01,                      | CARGO BODY TYPE should be 01-05, 07, 12, 96-98.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| V47P            | VEHICLE CONFIGURATION equals 21,                      | CARGO BODY TYPE must equal 22.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| V531            | BUS USE equals 01, 04-07, 98,                         | VEHICLE CONFIGURATION should equal 20, 21, and CARGO BODY TYPE should equal 22.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| V532            | VEHICLE CONFIGURATION equals 01, 02, 05-08, 19, 21,   | <b>POWER UNIT GVWR must not be 11 or 12.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| V56P            | VEHICLE CONFIGURATION equals 10,                      | <b>POWER UNIT GVWR must equal 11-12, and HM1 must equal 2.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| V57P            | VEHICLE CONFIGURATION equals 05,                      | CARGO BODY TYPE must equal 12 <b>or</b> 96.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| V58P            | VEHICLE CONFIGURATION equals 04,                      | <b>vPIC BODY CLASS must not equal 066 (Truck-Tractor), and FINAL STAGE BODY CLASS must not equal 066 (Truck-Tractor).</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| V59P            | VEHICLE CONFIGURATION equals 06,                      | <b>vPIC BODY CLASS must equal 066 (Truck-Tractor), or FINAL STAGE BODY CLASS must equal 066 (Truck-Tractor), and VEHICLE TRAILING must equal 1.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| V60P            | VEHICLE CONFIGURATION equals 07,                      | <b>vPIC BODY CLASS must equal 066 (Truck-Tractor), or FINAL STAGE BODY CLASS must equal 066 (Truck-Tractor), and VEHICLE TRAILING must equal 2.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                              | <b>THEN</b>                                                                                                                                                |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| V61P            | VEHICLE CONFIGURATION equals 08,                                                                                                                                                                                                                       | <b><i>vPIC BODY CLASS must equal 066 (Truck-Tractor), or FINAL STAGE BODY CLASS must equal 066 (Truck-Tractor), and VEHICLE TRAILING must equal 3.</i></b> |
| V65P            | <b><i>POWER UNIT GVWR equals 13, 14, 15, 16, 17, or 18,</i></b>                                                                                                                                                                                        | VEHICLE CONFIGURATION must not equal 00 and CARGO BODY TYPE must not equal 00.                                                                             |
| V790            | <b><i>vPIC BODY CLASS equals 002 (Minivan), and HM1 equals 1,</i></b>                                                                                                                                                                                  | VEHICLE CONFIGURATION should equal 00, and CARGO BODY TYPE should equal 00.                                                                                |
| V791            | <b><i>vPIC BODY CLASS equals 998 or 999 and POWER UNIT GVWR_From is equal to 98 or 99, AND POWER UNIT GVWR_To equals 98 or 99,</i></b>                                                                                                                 | VEHICLE CONFIGURATION must equal 99 <b><i>and CARGO BODY TYPE must equal 99.</i></b>                                                                       |
| V800            | NCSA BODY TYPE equals 21, 22, 28, 29,                                                                                                                                                                                                                  | VEHICLE CONFIGURATION should equal 00, 04, 10, 20, 21, 99, and CARGO BODY TYPE should equal 00, 01, 22, 99.                                                |
| V810            | <b><i>vPIC BODY CLASS equals 060 (Pickup), or FINAL STAGE BODY CLASS equals 060 (Pickup), and POWER UNIT GVWR_From equals 13, 14, or 15, and POWER UNIT GVWR_To equals 13, 14, or 15, and VEHICLE TRAILING equals 1-4,</i></b>                         | VEHICLE CONFIGURATION should equal 04, and CARGO BODY TYPE should equal 01, 03, 04, 09.                                                                    |
| V840            | <b><i>vPIC BODY CLASS equals 016 (Bus), 068 (Streetcar / Trolley), or 073 (Bus-School Bus), or FINAL STAGE BODY CLASS equals 016 (Bus), 068 (Streetcar / Trolley), or 073 (Bus-School Bus), and POWR UNIT GVWR From_ and GVWR_To equals 13-18,</i></b> | VEHICLE CONFIGURATION should equal 21, and CARGO BODY TYPE should equal 22.                                                                                |
| V850            | <b><i>vPIC BODY CLASS equals 111 (Step Van / Walk-in Van), or FINAL STAGE BODY CLASS equals 111 (Step Van / Walk-in Van), and POWER UNIT GVWR From_ and GVWR_To equals 13-18,</i></b>                                                                  | VEHICLE CONFIGURATION should equal 01 or 04, and CARGO BODY TYPE should equal 01.                                                                          |
| V860            | HIT-AND-RUN equals 0, and <b><i>vPIC BODY CLASS equals 011 (Truck) or FINAL STAGE BODY CLASS equals 011 (Truck),</i></b>                                                                                                                               | VEHICLE CONFIGURATION should equal 01, 02, <b><i>or</i></b> 04, and CARGO BODY TYPE should equal 01-10, 12, <b><i>or</i></b> 96-98.                        |
| V870            | <b><i>vPIC BODY CLASS equals 108 (Motorhome), or FINAL STAGE BODY CLASS equals 108 (Motorhome), and POWER UNIT GVWR From_ and GVWR_To equals 13-18,</i></b>                                                                                            | VEHICLE CONFIGURATION should equal 19, and CARGO BODY TYPE should equal 97.                                                                                |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                              | <b>THEN</b>                                                                                                  |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| V880            | <b><i>vPIC BODY CLASS equals 066 (Truck-Tractor), or FINAL STAGE BODY CLASS equals 066 (Truck-Tractor),</i></b>                                                                        | VEHICLE CONFIGURATION should equal 05-08 <b>or</b> 19, and CARGO BODY TYPE should equal 01-04, 06-12, 96-98. |
| V900            | <b><i>vPIC BODY CLASS equals 108 (Motorhome), or FINAL STAGE BODY CLASS equals 108 (Motorhome), and POWER UNIT GVWR equals 98 or 99,</i></b>                                           | VEHICLE CONFIGURATION should equal 99, and CARGO BODY TYPE should equal 99.                                  |
| V910            | <b><i>vPIC BODY CLASS equals 99 (Unknown), and POWER UNIT GVWR From_ and GVWR_To equals 13-18,</i></b>                                                                                 | VEHICLE CONFIGURATION should equal 19, and CARGO BODY TYPE should equal 98.                                  |
| V915            | <b><i>vPIC BODY CLASS equals 060 (Pickup), or FINAL STAGE BODY CLASS equals 060 (Pickup), and POWER UNIT GVWR From_ and GVWR_To equals 13-18, and VEHICLE TRAILING equals 0,</i></b>   | VEHICLE CONFIGURATION should equal 01, and CARGO BODY TYPE should equal 97.                                  |
| V920            | <b><i>vPIC BODY CLASS equals 011 (Truck) or 060 (Pickup), or FINAL STAGE BODY CLASS equals 011 (Truck) or 060 (Pickup), and POWER UNIT GVWR From_ and GVWR_To equals 98 or 99,</i></b> | VEHICLE CONFIGURATION should equal 04, 99, and CARGO BODY TYPE should equal 98 <b>or</b> 99.                 |
| V930            | VEHICLE CONFIGURATION equals 00, or CARGO BODY TYPE equals 00,                                                                                                                         | <b><i>POWER UNIT GVWR From_ and GVWR_To must not equal 13-18.</i></b>                                        |
| V940            | HM1 equals 2,                                                                                                                                                                          | VEHICLE CONFIGURATION should not equal 00, 99, and CARGO BODY TYPE should not equal 00, 99.                  |
| V981            | VEHICLE CONFIGURATION equals 00,                                                                                                                                                       | MOTOR CARRIER IDENTIFICATION NUMBER <b><i>must</i></b> equal 00-000000000.                                   |
| V982            | MOTOR CARRIER IDENTIFICATION NUMBER does not equal 00-000000000,                                                                                                                       | VEHICLE CONFIGURATION <b><i>must</i></b> not equal 00.                                                       |
| V985            | VEHICLE TRAILING equals 5,                                                                                                                                                             | VEHICLE CONFIGURATION should not equal 00, 10, 19-21.                                                        |
| V991            | VEHICLE TRAILING equals 0,                                                                                                                                                             | VEHICLE CONFIGURATION must not equal 04, 06-08.                                                              |
| V992            | VEHICLE TRAILING equals 1,                                                                                                                                                             | VEHICLE CONFIGURATION must not equal 01, 02, 05, 07, or 08.                                                  |
| V993            | VEHICLE TRAILING equals 2,                                                                                                                                                             | VEHICLE CONFIGURATION must not equal 01, 02, 05, 06, or 08.                                                  |
| V994            | VEHICLE TRAILING equals 3,                                                                                                                                                             | VEHICLE CONFIGURATION must not equal 01, 02, 05-07.                                                          |
| V995            | VEHICLE TRAILING equals 4,                                                                                                                                                             | VEHICLE CONFIGURATION must not equal 01, 02, 05-08.                                                          |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                   | <b>THEN</b>                                                                                               |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| V997            | VEHICLE TRAILING equals 6,                                                                                                                  | VEHICLE CONFIGURATION must not equal 04, 06-08.                                                           |
| V998            | VEHICLE TRAILING equals 9,                                                                                                                  | VEHICLE CONFIGURATION must not equal 04-07 or 08.                                                         |
| VA70            | <b>POWER UNIT</b> GVWR equals <b>11 or 12</b> , and HM2 equals 2,                                                                           | VEHICLE CONFIGURATION must equal 10.                                                                      |
| VH75            | UNIT TYPE equals 4,                                                                                                                         | VEHICLE CONFIGURATION should not equal 05, 20, 21, 10.                                                    |
| VP83            | <b>POWER UNIT GVWR_From</b> and <b>POWER UNIT GVWR_To</b> equal 13-18                                                                       | <b>MOTOR CARRIER IDENTIFICATION NUMBER, VEHICLE CONFIGURATION, and CARGO BODY TYPE must not equal 00.</b> |
| VP84            | <b>vPIC BODY CLASS</b> equals 073, 066, or 068                                                                                              | <b>MOTOR CARRIER IDENTIFICATION NUMBER, VEHICLE CONFIGURATION, and CARGO BODY TYPE must not equal 00.</b> |
| VP85            | <b>VEHICLE TRAILING</b> equals 0 and <b>POWER UNIT GVWR_From</b> and <b>POWER UNIT GVWR_To</b> are either 11 or 12 and HM2 does not equal 2 | <b>VEHICLE CONFIGURATION must equal 00, 20, or 99, and CARGO BODY TYPE must equal 00 or 22.</b>           |

**Consistency Checks (FARS Only) ([See Section 400](#)):**

| <b>Error ID</b> | <b>IF</b>                                                | <b>THEN</b>                                                                   |
|-----------------|----------------------------------------------------------|-------------------------------------------------------------------------------|
| D280            | VEHICLE CONFIGURATION equals 05-08, 21, or HM1 equals 2, | COMMERCIAL MOTOR VEHICLE LICENSE STATUS should not equal 00.                  |
| D450            | COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 00,       | VEHICLE CONFIGURATION should not equal 05-08, 21, and HM2 should not equal 2. |



## V25 - Cargo Body Type

**FORMAT:** 2 numeric

**SAS NAME:** Vehicle.CARGO\_BT, Parkwork.PCARGTYP

**ELEMENT VALUES:**

| Codes | Attributes                                           |
|-------|------------------------------------------------------|
| 00    | <a href="#">Not Applicable (N/A)</a>                 |
| 01    | <a href="#">Van/Enclosed Box</a>                     |
| 02    | Cargo Tank                                           |
| 03    | <a href="#">Flatbed</a>                              |
| 04    | <a href="#">Dump</a>                                 |
| 05    | Concrete Mixer                                       |
| 06    | <a href="#">Auto Transporter</a>                     |
| 07    | <a href="#">Garbage/Refuse</a>                       |
| 08    | <a href="#">Grain/Chips/Gravel</a>                   |
| 09    | <a href="#">Pole-Trailer</a>                         |
| 10    | <a href="#">Log</a>                                  |
| 11    | <a href="#">Intermodal Container Chassis</a>         |
| 12    | <a href="#">Vehicle Towing Another Motor Vehicle</a> |
| 22    | <a href="#">Bus</a>                                  |
| 96    | <a href="#">No Cargo Body Type</a>                   |
| 97    | <a href="#">Other</a>                                |
| 98    | <a href="#">Unknown Cargo Body Type</a>              |
| 99    | <a href="#">Unknown</a>                              |

**Definition:** This element identifies the primary cargo carrying capability of this vehicle when applicable.

**Remarks:** This information should be available on the or truck and bus supplement with other elements required by the FMCSA. *See the [Coding Guide: Qualifying Vehicles for Elements V23-V25](#) for helpful information.*

***The following are qualifying motor vehicles for this data element:***

1. **A vehicle** pulling a trailer with GCWR greater than 10,000 lbs.
2. **A single vehicle with a** GVWR greater than 10,000 lbs.
3. **A Vehicle** with 9 or more seats (including the driver).
4. **A Vehicle** displaying a hazardous materials placard.

**00 (Not Applicable [N/A])** is used when none of the qualifying criteria above apply to this vehicle. When this attribute is used, **MOTOR CARRIER IDENTIFICATION NUMBER** and **VEHICLE CONFIGURATION** must also be Not Applicable.

**NOTE:** For truck/trailer vehicle configurations where the power unit and trailer have different cargo body types, code the **CARGO BODY TYPE** of the power unit. For example, a dump truck pulling a flatbed trailer should be coded as **04 (Dump)**.

For truck/trailer vehicle configurations where the power unit's **CARGO BODY TYPE** would be coded **96 (No Cargo Body Type)** or **97 (Other)**, code the cargo body of the trailer. For example, a dual rear-wheel pickup truck pulling a flatbed trailer should be coded as **03 (Flatbed)**.

**01 (Van/Enclosed Box)** is a single-unit truck, truck/trailer, or truck tractor/semi-trailer having an enclosed body integral to the frame of the motor vehicle (e.g., enclosed trailers, enclosed cargo vans, and ambulances).

**03 (Flatbed)** is used when the available information refers to a cargo body without sides or roof, with or without readily removable stakes that may be tied together with chains/slats or panels. This includes “stake trucks.”

**04 (Dump)** is used when the available information refers to a cargo body designed to be tilted to discharge its load by gravity.

**06 (Auto Transporter)** is used when the available information refers to a cargo body capable of transporting multiple, fully assembled automobiles on an “auto transporter” trailer. Do not use this code for flatbeds transporting vehicles (e.g., flatbed tow truck or flatbed semi-trailer carrying wrecked/salvaged automobiles).

**07 (Garbage/Refuse)** is used when the available information refers to a cargo body that is specifically designed to collect and transport garbage and refuse. This includes both conventional rear-loading and over-the-top bucket loading garbage trucks. Also included are recycle trucks and roll-off style garbage trucks.

**08 (Grain/Chips/Gravel)** is used when the available information refers to trucks that discharge their loads by gravity from the bottom (i.e., belly dump).

**09 (Pole-Trailer)** is used when the available information refers to a cargo body type that consists of a trailer designed to be attached to a towing vehicle by a reach or pole or by being boomed and secured to the towing vehicle. These are ordinarily used to carry property of a long or irregular shape, such as telephone poles. The pole trailer extends or retracts to accommodate varying lengths of cargo.

**10 (Log)** is used when the available information refers to a cargo body type with a fixed middle beam and side support posts specifically designed for carrying logs. This includes single-unit log trucks.

**09 (Pole-Trailer)** and **10 (Log)** may be listed on a police crash report as “Pole/Log.” If the trailer can telescope to carry different log lengths, then it should be considered a **09 (Pole-Trailer)**.

**11 (Intermodal Container Chassis)** is used when the available information refers to a cargo body type used for a trailer specifically designed to have a rail or ship container mounted directly

on the chassis. These should not be confused with van/enclosed box cargo body types. Intermodal containers may also be mounted on a flatbed trailer, in which case [03 \(Flatbed\)](#) is the CARGO BODY TYPE.

**12 (Vehicle Towing Another Motor Vehicle)** is used when the available information refers to vehicles that have no cargo carrying capability but are in the act of towing another motor vehicle where the towed vehicle has at least two wheels on the ground. These are often called “drive-away, tow-aways” and will be applicable to tow trucks and specially rigged truck tractors. This includes “saddlemount” configurations. Does not apply to vehicles “towed” by being loaded on a flatbed or auto transporter.

**22 (Bus)** is a motor vehicle with seating for transporting nine or more people, including the driver. This attribute would include a limousine with sufficient seating capacity to qualify as a bus.

**96 (No Cargo Body Type)** is used for any medium/heavy truck with no cargo carrying capability (bobtail); a truck chassis with a cab only (stripped chassis); and light trucks and passenger vehicles displaying a hazardous materials placard. Other examples of **96 (No Cargo Body Type)** would be sign trucks, fire trucks, tow trucks, construction or farm equipment, etc.

**97 (Other)** is used when the CARGO BODY TYPE is other than the body types listed above. This includes pickups greater than 10,000 lbs without a trailer. If a pickup is pulling a trailer, code the CARGO BODY TYPE of the attached trailer instead of the CARGO BODY TYPE of the pickup. This attribute would also include motor homes.

**98 (Unknown Cargo Body Type)** is used when the vehicle qualifies for this data element, but the CARGO BODY TYPE is not known or when there is not enough information to distinguish one CARGO BODY TYPE from another. An example would be contradictory data on whether the truck is a van/enclosed box or a flatbed.

**99 (Unknown)** is used *when*:

- the [NCSA BODY TYPE](#) of the vehicle is unknown or not reported; or
- it cannot be determined if the vehicle qualifies for this data element (e.g., a light pickup truck pulling a trailer where the GCWR is not known).

*When this attribute is used, [MOTOR CARRIER IDENTIFICATION NUMBER](#) and [VEHICLE CONFIGURATION](#) should also be Unknown.*

Consistency Checks [\(See Section 400\)](#):

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                           | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>4N8P</b>     | <b>any one of the fields MOTOR CARRIER IDENTIFICATION NUMBER, VEHICLE CONFIGURATION, and CARGO BODY TYPE equals Unknown [MOTOR CARRIER IDENTIFICATION NUMBER (99-999999999), VEHICLE CONFIGURATION (99), CARGO BODY TYPE (99)],</b> | <b>the other two should also equal Unknown and HM1 must equal 1.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| AB1P            | VEHICLE CONFIGURATION equals 01,                                                                                                                                                                                                    | CARGO BODY TYPE must NOT equal 22.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| AE0P            | VEHICLE CONFIGURATION equals 05, and CARGO BODY TYPE does not equal 12,                                                                                                                                                             | VEHICLE TRAILING must equal 0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| AF1P            | VEHICLE CONFIGURATION equals 20, 21,                                                                                                                                                                                                | CARGO BODY TYPE must equal 22.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| AK00            | CARGO BODY TYPE equals 22, 96,                                                                                                                                                                                                      | JACKKNIFE should equal 0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| AL0P            | CARGO BODY TYPE equals 22,                                                                                                                                                                                                          | <b>vPIC BODY CLASS must equal 009 (Van), 016 (Bus), 068 (Streetcar / Trolley), 073 (Bus-School Bus), or 117 (Limousine), or FINAL STAGE BODY CLASS must equal 009 (Van), 016 (Bus), 068 (Streetcar / Trolley), 073 (Bus-School Bus), or 117 (Limousine).</b>                                                                                                                                                                                                                                                                                                                                                                              |
| AM0P            | CARGO BODY TYPE does not equal 00 or 99,                                                                                                                                                                                            | <b>vPIC BODY CLASS should equal 009 (Van), 011 (Truck), 016 (Bus), 060 (Pickup), 066 (Truck-Tractor), 068 (Streetcar / Trolley), 073 (Bus - School Bus), 095 (Cargo Van), 108 (Motorhome), 111 (Step Van / Walk-in Van), 117 (Limousine), 126 (Off-road Vehicle - Farm Equipment), 127 (Off-road Vehicle - Construction Equipment), or FINAL STAGE BODY CLASS should equal 009 (Van), 011 (Truck), 016 (Bus), 060 (Pickup), 066 (Truck-Tractor), 068 (Streetcar / Trolley), 073 (Bus-School Bus), 095 (Cargo Van), 108 (Motorhome), 111 (Step Van / Walk-in Van), or 117 (Limousine), or 997 Other (Specify:), or HM2 should equal 2.</b> |
| V470            | VEHICLE CONFIGURATION equals 01,                                                                                                                                                                                                    | CARGO BODY TYPE should be 01-05, 07, 12, 96-98.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| V47P            | VEHICLE CONFIGURATION equals 21,                                                                                                                                                                                                    | CARGO BODY TYPE must equal 22.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| V531            | BUS USE equals 01, 04-07, 98,                                                                                                                                                                                                       | VEHICLE CONFIGURATION should equal 20, 21, and CARGO BODY TYPE should equal 22.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| V57P            | VEHICLE CONFIGURATION equals 05,                                                                                                                                                                                                    | CARGO BODY TYPE must equal 12 or 96.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                       | <b>THEN</b>                                                                                                           |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| V62P            | <b>VEHICLE TRAILING equals 0 and CARGO BODY TYPE equals 01-08, 97, 98, and VEHICLE IDENTIFICATION NUMBER does not equal 8s or 9s,</b>                                                                                                           | <b>POWER UNIT GVWR_from and GVWR_to must equal 13, 14, 15, 16, 17, or 18.</b>                                         |
| V65P            | <b>POWER UNIT GVWR equals 13, 14, 15, 16, 17, or 18,</b>                                                                                                                                                                                        | VEHICLE CONFIGURATION must not equal 00, and CARGO BODY TYPE must not equal 00.                                       |
| V68P            | CARGO BODY TYPE equals 12,                                                                                                                                                                                                                      | VEHICLE TRAILING must equal 5.                                                                                        |
| V790            | <b>vPIC BODY CLASS equals 002 (Minivan), and HM1 equals 1,</b>                                                                                                                                                                                  | VEHICLE CONFIGURATION should equal 00, and CARGO BODY TYPE should equal 00.                                           |
| V800            | NCSA BODY TYPE equals 21, 22, 28, 29,                                                                                                                                                                                                           | VEHICLE CONFIGURATION should equal 00, 04, 10, 20, 21, 99, and CARGO BODY TYPE should equal 00, 01, 22, 99.           |
| V810            | <b>vPIC BODY CLASS equals 060 (Pickup), or FINAL STAGE BODY CLASS equals 060 (Pickup), and POWER UNIT GVWR_From equals 13, 14, or 15, and POWER UNIT GVWR_To equals 13, 14, or 15, and VEHICLE TRAILING equals 1-4,</b>                         | VEHICLE CONFIGURATION should equal 04, and CARGO BODY TYPE should equal 01, 03, 04, 09.                               |
| V840            | <b>vPIC BODY CLASS equals 016 (Bus), 068 (Streetcar / Trolley), or 073 (Bus-School Bus), or FINAL STAGE BODY CLASS equals 016 (Bus), 068 (Streetcar / Trolley), or 073 (Bus-School Bus), and POWR UNIT GVWR From_ and GVWR_To equals 13-18,</b> | VEHICLE CONFIGURATION should equal 21, and CARGO BODY TYPE should equal 22.                                           |
| V850            | <b>vPIC BODY CLASS equals 111 (Step Van / Walk-in Van), or FINAL STAGE BODY CLASS equals 111 (Step Van / Walk-in Van), and POWER UNIT GVWR From_ and GVWR_To equals 13-18,</b>                                                                  | VEHICLE CONFIGURATION should equal 01 or 04, and CARGO BODY TYPE should equal 01.                                     |
| V860            | HIT-AND-RUN equals 0, and <b>vPIC BODY CLASS equals 011 (Truck) or FINAL STAGE BODY CLASS equals 011 (Truck),</b>                                                                                                                               | VEHICLE CONFIGURATION should equal 01, 02, <b>or</b> 04, and CARGO BODY TYPE should equal 01-10, 12, <b>or</b> 96-98. |
| V870            | <b>vPIC BODY CLASS equals 108 (Motorhome), or FINAL STAGE BODY CLASS equals 108 (Motorhome), and POWER UNIT GVWR From_ and GVWR_To equals 13-18,</b>                                                                                            | VEHICLE CONFIGURATION should equal 19, and CARGO BODY TYPE should equal 97.                                           |
| V880            | <b>vPIC BODY CLASS equals 066 (Truck-Tractor), or FINAL STAGE BODY CLASS equals 066 (Truck-Tractor),</b>                                                                                                                                        | VEHICLE CONFIGURATION should equal 05-08 <b>or</b> 19, and CARGO BODY TYPE should equal 01-04, 06-12, 96-98.          |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                       | <b>THEN</b>                                                                                                      |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| V900            | <i>vPIC BODY CLASS equals 108 (Motorhome), or FINAL STAGE BODY CLASS equals 108 (Motorhome), and POWER UNIT GVWR equals 98 or 99,</i>                                           | VEHICLE CONFIGURATION should equal 99, and CARGO BODY TYPE should equal 99.                                      |
| V910            | <i>vPIC BODY CLASS equals 99 (Unknown), and POWER UNIT GVWR From_ and GVWR_To equals 13-18,</i>                                                                                 | VEHICLE CONFIGURATION should equal 19, and CARGO BODY TYPE should equal 98.                                      |
| V915            | <i>vPIC BODY CLASS equals 060 (Pickup), or FINAL STAGE BODY CLASS equals 060 (Pickup), and POWER UNIT GVWR From_ and GVWR_To equals 13-18, and VEHICLE TRAILING equals 0,</i>   | VEHICLE CONFIGURATION should equal 01, and CARGO BODY TYPE should equal 97.                                      |
| V920            | <i>vPIC BODY CLASS equals 011 (Truck) or 060 (Pickup), or FINAL STAGE BODY CLASS equals 011 (Truck) or 060 (Pickup), and POWER UNIT GVWR From_ and GVWR_To equals 98 or 99,</i> | VEHICLE CONFIGURATION should equal 04, 99, and CARGO BODY TYPE should equal 98 or 99.                            |
| V930            | VEHICLE CONFIGURATION equals 00, or CARGO BODY TYPE equals 00,                                                                                                                  | <b><i>POWER UNIT GVWR From_ and GVWR_To must not equal 13-18.</i></b>                                            |
| V940            | HM1 equals 2,                                                                                                                                                                   | VEHICLE CONFIGURATION should not equal 00, 99, and CARGO BODY TYPE should not equal 00, 99.                      |
| VH80            | UNIT TYPE equals 4,                                                                                                                                                             | CARGO BODY TYPE should not equal 06, 07, 11, 12, 22.                                                             |
| VP83            | <b><i>POWER UNIT GVWR_From and POWER UNIT GVWR_To equal 13-18</i></b>                                                                                                           | <b><i>MOTOR CARRIER IDENTIFICATION NUMBER, VEHICLE CONFIGURATION, and CARGO BODY TYPE must not equal 00.</i></b> |
| VP84            | <i>vPIC BODY CLASS equals 073, 066, or 068</i>                                                                                                                                  | <b><i>MOTOR CARRIER IDENTIFICATION NUMBER, VEHICLE CONFIGURATION, and CARGO BODY TYPE must not equal 00.</i></b> |
| VP85            | <b><i>VEHICLE TRAILING equals 0 and POWER UNIT GVWR_From and POWER UNIT GVWR_To are either 11 or 12 and HM2 does not equal 2</i></b>                                            | <b><i>VEHICLE CONFIGURATION must equal 00, 20, or 99, and CARGO BODY TYPE must equal 00 or 22.</i></b>           |

## V26 - Hazardous Materials Involvement / Placard

**FORMAT:** 1 set, 1 numeric; 1 set, 1 numeric; 1 set, 4 numeric; 1 set, 2 numeric; 1 set, 1 numeric

**SAS NAME:** Vehicle.HAZ\_INV, Vehicle.HAZ\_PLAC, Vehicle.HAZ\_ID, Vehicle.HAZ\_CNO, Vehicle.HAZ\_REL, Parkwork.PHAZ\_INV, Parkwork.PHAZPLAC, Parkwork.PHAZ\_ID, Parkwork.PHAZ\_CNO, Parkwork.PHAZ\_REL

### ELEMENT VALUES:

#### HM1: Hazardous Materials Involvement

| Codes | Attributes          |
|-------|---------------------|
| 1     | <a href="#">No</a>  |
| 2     | <a href="#">Yes</a> |

#### HM2: Placard (Did This Motor Vehicle Display a Hazardous Material (HM) Placard?)

| Codes | Attributes                     |
|-------|--------------------------------|
| 0     | <a href="#">Not Applicable</a> |
| 1     | <a href="#">No</a>             |
| 2     | <a href="#">Yes</a>            |
| 8     | <a href="#">Not Reported</a>   |

#### HM3: 4-digit Hazardous Material Identification Number

| Codes | Attributes                            |
|-------|---------------------------------------|
| 0000  | <a href="#">Not Applicable</a>        |
|       | <a href="#">Actual 4-Digit Number</a> |
| 8888  | <a href="#">Not Reported</a>          |

#### HM4: 2-digit Hazardous Material Class Number

| Codes | Attributes                                                |
|-------|-----------------------------------------------------------|
| 00    | <a href="#">Not Applicable</a>                            |
| 01-09 | <a href="#">Actual 1-Digit Number</a> (with leading zero) |
| 88    | <a href="#">Not Reported</a>                              |

### HM5: Release of Hazardous Material from the Cargo Compartment

| Codes | Attributes                     |
|-------|--------------------------------|
| 0     | <a href="#">Not Applicable</a> |
| 1     | <a href="#">No</a>             |
| 2     | <a href="#">Yes</a>            |
| 8     | <a href="#">Not Reported</a>   |

**Definition:** This element identifies the presence of hazardous cargo for this vehicle and records information about the hazardous cargo when present.

**Remarks:** This element must be coded for all vehicles.

Placard and Hazardous Materials Released information should be available on your police crash report or truck and bus supplement with other elements required by the FMCSA for commercial vehicles.

Hazardous Material is a substance or material that has been designated by the U.S. Department of Transportation, or other authorizing entity, as capable of posing an unreasonable risk to health, safety, and property when transported in commerce. Any motor vehicle transporting hazardous materials in quantities above the thresholds established by the U.S. Department of Transportation, or other authorized entity, is required to display a hazardous materials placard.

**Exclusions:**

- Fuel or oil carried by the vehicle for its own use.

**Hazardous Materials Placard:** is a sign required to be affixed to any motor vehicle transporting hazardous materials in quantities above the thresholds established by the U.S. Department of Transportation, or other authorized entity. This placard identifies the 1-digit hazard class division number, 4-digit hazardous material identification number, or name of the hazardous material being transported.

Vehicle transporting hazardous materials should have a diamond-shaped placard affixed indicating the material carried. (See [Figure 14](#) below.)

### ***HM1 - Hazardous Materials Involvement***

**Definition:** This element indicates whether the vehicle was carrying hazardous materials - involvement.

**1 (No)** is used when there is no indication of hazardous materials for this vehicle in the case material. For cases involving a hit-and-run, the default is **1 (No)** when no details are reported regarding the hit-and-run vehicle.

If HM1 is **1 (No)**, HM2-HM5 will be coded **0s (Not Applicable)**.

**2 (Yes)** is used when hazardous materials were indicated for this vehicle in the case material.



Examples for code 2 (Yes):

1. The officer records any information about a placard, whether he indicates that the vehicle was carrying hazardous materials or not.
2. The officer does not record any information about a placard; however, you know that hazardous material was involved.
3. Information identifying hazardous material is blank, but you know that hazardous material was released.

## **HM2 - Hazardous Materials Placard**

**Definition:** This element indicates the presence of hazardous materials and whether the vehicle displayed a hazardous materials placard.

**0 (Not Applicable)** is used when there is no indication of hazardous materials for this vehicle in the case material (HM1 equals [1 \(No\)](#)).

**1 (No)** is used when hazardous materials are involved, but the officer indicates there was no placard.

**2 (Yes)** is used when hazardous materials are involved, and the vehicle does have a placard.

**8 (Not Reported)** is used when hazardous materials are involved, but the crash report does not record any information about the presence of a placard. *Check to see if [0 \(Not Applicable\)](#) is more appropriate for the situation.*

## **HM3 - 4-Digit Hazardous Materials Identification Number**

**Definition:** This element indicates the 4-digit identification number.

**0000 (Not Applicable)** - No indication of hazardous materials for this vehicle in the case material (HM1 equals [1 \(No\)](#)).

**Actual 4-digit Number** - Record the 4-digit Hazardous Materials Identification Number reported in the case material.

**8888 (Not Reported)** - Hazardous materials involved, but the 4-digit number was not recorded, or this field is not available on your crash report. If you are provided the name of the hazardous material on your report but not the 4-digit number, use this attribute and be sure to record the 1-digit class number, if it is provided, in HM4. *Check to see if [0000 \(Not Applicable\)](#) is more appropriate for the situation.*

## **HM4 - 2-Digit Hazardous Materials Class Number**

**Definition:** This element indicates the single-digit hazardous material class number for the vehicle.

**00 (Not Applicable)** - No indication of hazardous materials for this vehicle in the case material (HM1 equals [1 \(No\)](#)).

**Actual 2-digit Class Number (01-09)** - Record the 1-digit Hazardous Materials Class Number recorded on your crash report with a leading zero (e.g., if the 1-digit class number is 5, enter

“05”). If you were given a two-digit number with decimal point, record only the first digit with a leading zero (e.g., if the class number is “1.3” you should record “01”). See [Figure 14](#).

**88 (Not Reported)** - Hazardous Materials involved, but the 1-digit number was not recorded, or this field is not available in the crash materials. *Check to see if [00 \(Not Applicable\)](#) is more appropriate for the situation.*

### ***HM5 - Release of Hazardous Materials from Cargo Compartment***

**Definition:** This element indicates whether or not any hazardous cargo was released from the cargo tank or compartment.

**0 (Not Applicable)** - No indication of hazardous materials for this vehicle in the case material (HM1 equals

[1 \(No\)](#)).

**1 (No)** - Hazardous Materials involved, and the officer indicates there was no release of the material(s) from the cargo compartment.

**2 (Yes)** - Hazardous Materials involved, and the officer indicates there was a release of the material(s) from the cargo compartment.

**8 (Not Reported)** - Hazardous Materials involved, and you can't determine from the crash materials whether hazardous material was released from the cargo compartment or not. *Check to see if [0 \(Not Applicable\)](#) is more appropriate for the situation.*

Do not include fuel or oil carried by the vehicle for its own use that has been released.

### ***Guideline for recording multiple hazardous materials:***

- If the case has a hazmat spill and you know which material was released, always record that material.
- If you were to get two hazardous materials reported of different classes (1-9), report the material from DOT Hazmat Table 1 and its associated 4-digit UN number over materials in Table 2. Table 1 includes Hazard Class or Divisions: 1.1, 1.2, 1.3, 2.3, 4.3, 5.2, 6.1, 7.
- If you have two materials of the same class (e.g., both class 8 - Corrosive) report the material in greatest quantity if you have the information. If not, report the material that is listed first on the report.

**Any transport vehicle containing any quantity of the following classes of material must be placarded:**

- Explosives (1.1, 1.2, 1.3)
- Poison Gas
- Materials Dangerous When Wet
- Poison
- Radioactive

Any transport vehicle containing over 1,001 lbs or more (gross weight) of the following classes of materials must be placarded:

- Explosives (1.4, 1.5, 1.6)
- Flammable and Non-Flammable Gas
- Flammable/Combustible Liquid (gasoline, fuel oil)
- Flammable Solid/Spontaneously Combustible
- Oxidizer/Organic Peroxide
- Poison
- Radioactive
- Corrosive
- Other (A material that presents a hazard during transportation that is not included in any other hazard class)

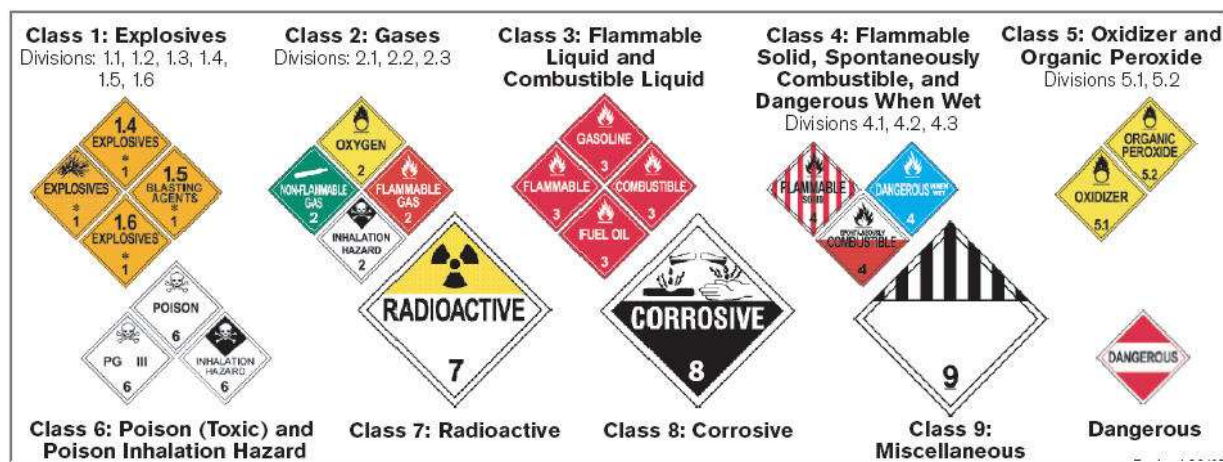


Figure 14: Nine Classes of Hazardous Materials

#### Consistency Checks [\(See Section 400\)](#):

| Error ID | IF                                                                                                                                                                               | THEN                                                                                                                                                            |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4N4P     | MOTOR CARRIER IDENTIFICATION NUMBER does not equal 00-000000000 or 99-999999999,                                                                                                 | <b>POWER UNIT GVWR_From and POWER UNIT GVWR_To must equal 13-18, or VEHICLE TRAILING must equal 1-6, or CARGO BODY TYPE must equal 22, or HM2 must equal 2.</b> |
| 4N5P     | <b>POWER UNIT GVWR_From and POWER UNIT GVWR_To do not equal 13-18, and VEHICLE TRAILING does not equal 1-6, and CARGO BODY TYPE does not equal 22, and HM2 does not equal 2,</b> | MOTOR CARRIER IDENTIFICATION NUMBER must equal 00-000000000, 99-999999999.                                                                                      |
| 9K0P     | HM2 equals 2,                                                                                                                                                                    | REGISTRATION STATE must not equal 00.                                                                                                                           |

| <b>Error ID</b> | <b>IF</b>                                                                                                                   | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AH0P            | VEHICLE CONFIGURATION does not equal 00 <b>or</b> 99,                                                                       | <b>vPIC BODY CLASS should equal 009 (Van), 011 (Truck), 016 (Bus), 060 (Pickup), 066 (Truck-Tractor), 068 (Streetcar / Trolley), 073 (Bus - School Bus), 095 (Cargo Van), 108 (Motorhome), 111 (Step Van / Walk-in Van), 117 (Limousine), 126 (Off-road Vehicle - Farm Equipment), 127 (Off-road Vehicle - Construction Equipment), or FINAL STAGE BODY CLASS should equal 009 (Van), 011 (Truck), 016 (Bus), 060 (Pickup), 066 (Truck-Tractor), 068 (Streetcar / Trolley), 073 (Bus-School Bus), 095 (Cargo Van), 108 (Motorhome), 111 (Step Van / Walk-in Van), 117 (Limousine), or 997 Other (Specify:), or HM2 should equal 2.</b>    |
| AM0P            | CARGO BODY TYPE does not equal 00 <b>or</b> 99,                                                                             | <b>vPIC BODY CLASS should equal 009 (Van), 011 (Truck), 016 (Bus), 060 (Pickup), 066 (Truck-Tractor), 068 (Streetcar / Trolley), 073 (Bus - School Bus), 095 (Cargo Van), 108 (Motorhome), 111 (Step Van / Walk-in Van), 117 (Limousine), 126 (Off-road Vehicle - Farm Equipment), 127 (Off-road Vehicle - Construction Equipment), or FINAL STAGE BODY CLASS should equal 009 (Van), 011 (Truck), 016 (Bus), 060 (Pickup), 066 (Truck-Tractor), 068 (Streetcar / Trolley), 073 (Bus-School Bus), 095 (Cargo Van), 108 (Motorhome), 111 (Step Van / Walk-in Van), or 117 (Limousine), or 997 Other (Specify:), or HM2 should equal 2.</b> |
| D580            | VIOLATIONS CHARGED equals 85,                                                                                               | HM1 should equal 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| V070            | HM1 equals 2,                                                                                                               | REGISTRATION STATE should not equal 92.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| V940            | HM1 equals 2,                                                                                                               | VEHICLE CONFIGURATION should not equal 00, 99, and CARGO BODY TYPE should not equal 00, 99.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| V980            | <b>POWER UNIT GVWR_From and POWER UNIT GVWR_To equals 13-18, or VEHICLE CONFIGURATION equals 20 or 21, or HM1 equals 2,</b> | MOTOR CARRIER IDENTIFICATION NUMBER must not equal 00-000000000 <b>or 99-999999999.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| VA00            | HM1 equals 1,                                                                                                               | HM2, HM5 must equal 0, HM4 must equal 00 and HM3 must equal 0000.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| VA10            | HM1 equals 2,                                                                                                               | HM2, HM5 must not equal 0, HM4 must not equal 00 and HM3 must not equal 0000.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

| <b>Error ID</b> | <b>IF</b>                                                                               | <b>THEN</b>                                            |
|-----------------|-----------------------------------------------------------------------------------------|--------------------------------------------------------|
| VA20            | any of HM2, HM5 equals 0, or HM4 equals 00, or HM3 equals 0000,                         | HM1 must equal 1.                                      |
| VA30            | any of HM2, HM5 does not equal 0, or HM4 does not equal 00, or HM3 does not equal 0000, | HM1 must equal 2.                                      |
| VA40            | HM5 equals 2,                                                                           | HM3 should not equal 8888, or HM4 should not equal 88. |
| VA50            | HM3 equals 8888, and HM4 equals 88,                                                     | HM5 should not equal 2.                                |
| VA60            | HM3 does not equal 0000, 8888, or HM4 does not equal 00, 88,                            | HM2 should equal 2.                                    |
| VA70            | <b>POWER UNIT</b> GVWR equals <b>11 or 12</b> , and HM2 equals 2,                       | VEHICLE CONFIGURATION must equal 10.                   |
| VA80            | HM3 - 4-Digit Hazardous Materials Identification Number must contain 4 digits.          | --                                                     |

**Consistency Checks (FARS Only) ([See Section 400](#)):**

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>THEN</b>                                    |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| 4S1P            | <b><i>vPIC BODY CLASS does equal 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport/Adventure/Supernoto/On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 100 (Motorcycle - Enclosed Three Wheeled / Enclosed Autocycle), 103 (Motorcycle - Unenclosed Three Wheeled / Open Autocycle), 104 (Moped), 105 (Off-road Vehicle - Recreational Off-Road Vehicle (ROV)), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle), and HM1 does not equal 1,</i></b> | COMPLIANCE WITH CDL ENDORSEMENTS MUST equal 0. |

| <b>Error ID</b> | <b>IF</b>                                                                                                                    | <b>THEN</b>                                                                                                                                              |
|-----------------|------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| D270            | <b><i>POWER UNIT GVWR_From and POWER UNIT GVWR_To equals 17-18, or VEHICLE CONFIGURATION equals 21, or HM2 equals 2,</i></b> | <b><i>COMMERCIAL MOTOR VEHICLE LICENSE STATUS should not equal 00.</i></b>                                                                               |
| D280            | VEHICLE CONFIGURATION equals 05-08, 21, or HM1 equals 2,                                                                     | COMMERCIAL MOTOR VEHICLE LICENSE STATUS should not equal 00.                                                                                             |
| D300            | HM2 equals 2,                                                                                                                | COMMERCIAL MOTOR VEHICLE LICENSE STATUS should not equal 00 or 99.                                                                                       |
| D310            | HM2 equals 2,                                                                                                                | COMPLIANCE WITH CDL ENDORSEMENTS should equal 1-3.                                                                                                       |
| D440            | COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 00,                                                                           | <b><i>POWER UNIT GVWR_From and POWER UNIT GVWR_To should not be in 17-18, VEHICLE CONFIGURATION should not equal 21, and HM2 should not equal 2.</i></b> |
| D450            | COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 00,                                                                           | VEHICLE CONFIGURATION should not equal 05-08, 21, and HM2 should not equal 2.                                                                            |
| V090            | HM1 equals 2,                                                                                                                | COMMERCIAL MOTOR VEHICLE LICENSE STATUS should equal 06, 99.                                                                                             |
| V100            | HM1 equals 2, and RELATED FACTORS-DRIVER LEVEL does not equal 019,                                                           | COMMERCIAL MOTOR VEHICLE LICENSE STATUS should not equal 01, 02, 05.                                                                                     |
| V570            | HM1 equals 2,                                                                                                                | REGISTERED VEHICLE OWNER should not equal 0, 1, 2, 4.                                                                                                    |
| V580            | HM1 equals 2,                                                                                                                | REGISTERED VEHICLE OWNER should equal 3.                                                                                                                 |

## V27 - Bus Use

**FORMAT:** 2 numeric

**SAS NAME:** Vehicle.BUS\_USE, Parkwork.PBUS\_USE

**ELEMENT VALUES:**

| Codes | Attributes                                        |
|-------|---------------------------------------------------|
| 00    | <a href="#">Not a Bus</a>                         |
| 01    | <a href="#">School</a>                            |
| 04    | <a href="#">Intercity</a>                         |
| 05    | <a href="#">Charter/Tour</a>                      |
| 06    | <a href="#">Transit/Commuter</a>                  |
| 07    | <a href="#">Shuttle</a>                           |
| 08    | <a href="#">Modified for Personal/Private Use</a> |
| 98    | <a href="#">Not Reported</a>                      |
| 99    | <a href="#">Reported as Unknown</a>               |

**Definition:** This data element describes the common type of bus service this vehicle was being used for at the time of the crash or the primary use for the bus if not in service at the time of the crash.

**Remarks:** Buses are any motor vehicle with seats to transport nine or more people, including the driver's seat. This element does not include vans that are owned and operated for personal use.

**00 (Not a Bus)** This should be used for vehicles with less than nine seats (including the driver), personal-use vans with nine or more seats (including the driver), and for vehicles that do not have a bus body type **AND** are not being used as a bus in the crash.

**01 (School)** is used for vehicles that meet the definition of a bus and are being used by a public or private school or district, or contracted carrier operation on behalf of the entity, providing transport for school children (up to the 12th grade) to/from school (public or private), or any other school function or activity.

In most cases, the decision to use this code will be based on a reference to the vehicle as a school bus in the case material. In this situation, assume the criteria are met unless it is otherwise stated in the case material.

In addition, **01 (School)** includes buses that are not externally identifiable as a school/pupil transport vehicle. For example, a transit bus, at the time of the crash, used exclusively (no other passengers except students) to transport students to/from the school or school-related activity.

**04 (Intercity)** is used when a company provides for-hire, long-distance passenger transportation between cities over fixed routes with regular schedules (e.g., Greyhound bus service between major cities).

**05 (Charter/Tour)** is used when a company provides transportation on a for-hire basis and demand-response basis, usually round-trip service for a tour group or outing.

**06 (Transit/Commuter)** is used for a government entity or private company that provides passenger transportation over fixed, scheduled routes, within primarily urban geographical areas. (For example, inner-city mass transit bus/van service.)

**07 (Shuttle)** is used when private companies provide transportation services for their own employees, non-governmental organizations (such as churches and non-profit groups), and non-educational units of government (such as departments of corrections). (Examples include buses/nine-passenger vans transporting people from airports, hotels, rental car companies, and business facility to facility.)

**08 (Modified for Personal/Private Use)** is used when a bus body type has been modified for personal or private use. For example, a bus with seats removed and exterior altered to allow for personal/private hauling of cargo (instead of passengers). Also includes musical groups in cross-country bus with interior remodeled with home-like conveniences.

**98 (Not Reported)** *Check to see if 00 (Not a Bus) or 99 (Reported as Unknown) are more appropriate for the situation.*

If a State's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**."

Code **98 (Not Reported)** in these two situations:

1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

**99 (Reported as Unknown)** is used if the information about this vehicle is reported as Unknown.

**Note:** if the investigating officer indicates a bus was involved but not how it was being used, use **98 (Not Reported)**.



Consistency Checks [\(See Section 400\)](#):

| <b>Error ID</b> | <b>IF</b>                     | <b>THEN</b>                                                                                                                                                                                                                                                   |
|-----------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AH1P            | BUS USE equals 08,            | <b>vPIC BODY CLASS</b> must equal <b>009 (Van), 016 (Bus), or 073 (Bus - School Bus), or FINAL STAGE BODY CLASS</b> must equal <b>009 (Van), 016 (Bus), 073 (Bus - School Bus), 108 (Motorhome), or 997 Other (Specify):</b> .                                |
| AH2P            | BUS USE equals 06,            | <b>vPIC BODY CLASS</b> should equal <b>009 (Van) or 016 (Bus), or FINAL STAGE BODY CLASS</b> should equal <b>009 (Van) or 016 (Bus)</b> .                                                                                                                     |
| V051            | BUS USE equals 01,            | <b>vPIC BODY CLASS</b> should equal <b>009 (Van), 016 (Bus), or 073 (Bus - School Bus), or FINAL STAGE BODY CLASS</b> should equal <b>009 (Van), 016 (Bus), or 073 (Bus - School Bus)</b> .                                                                   |
| V052            | BUS USE equals 04,            | <b>vPIC BODY CLASS</b> should equal <b>016 (Bus), or FINAL STAGE BODY CLASS</b> should equal <b>016 (Bus)</b> .                                                                                                                                               |
| V053            | BUS USE equals 05,            | <b>vPIC BODY CLASS</b> should equal <b>009 (Van), 016 (Bus), or 117 (Limousine), or FINAL STAGE BODY CLASS</b> should equal <b>009 (Van), 016 (Bus), or 117 (Limousine)</b> .                                                                                 |
| V054            | BUS USE equals 07,            | <b>vPIC BODY CLASS</b> must equal <b>009 (Van), 016 (Bus), 068 (Streetcar / Trolley), or 073 (Bus-School Bus), or FINAL STAGE BODY CLASS</b> must equal <b>009 (Van), 016 (Bus), 068 (Streetcar / Trolley), or 073 (Bus-School Bus)</b> .                     |
| V055            | BUS USE equals 00,            | <b>vPIC BODY CLASS</b> must not equal <b>016 (Bus) or 073 (Bus - School Bus), and FINAL STAGE BODY CLASS</b> must not equal <b>016 (Bus) or 073 (Bus - School Bus)</b> .                                                                                      |
| V056            | SPECIAL USE equals 02,        | BUS USE should equal 01.                                                                                                                                                                                                                                      |
| V057            | SPECIAL USE equals 03,        | BUS USE should equal 04-07, 98, or 99.                                                                                                                                                                                                                        |
| V059            | BUS USE equals 01,            | SPECIAL USE must equal 02.                                                                                                                                                                                                                                    |
| V061            | BUS USE equals 04-07,         | SPECIAL USE must equal 03.                                                                                                                                                                                                                                    |
| V330            | SCHOOL BUS RELATED equals 1,  | <b>vPIC BODY CLASS or FINAL STAGE BODY CLASS</b> of at least one of the involved vehicles should equal <b>073 (Bus - School Bus)</b> , or SPECIAL USE for at least one involved vehicle should equal 02, or BUS USE for at least one vehicle should equal 01. |
| V531            | BUS USE equals 01, 04-07, 98, | VEHICLE CONFIGURATION should equal 20, 21, and CARGO BODY TYPE should equal 22.                                                                                                                                                                               |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                              | <b>THEN</b>                     |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| V989            | <b><i>vPIC MAKE equals 99998 (Not Reported) or 99999 (Unknown), and vPIC MODEL equals 99998 (Not Reported) or 99999 (Unknown), and vPIC BODY CLASS equals 998 (Not Reported) or 999 (Unknown),</i></b> | BUS USE <i>should</i> equal 99. |

## V28 - Special Use

**FORMAT:** 2 numeric

**SAS NAME:** Vehicle.SPEC\_USE, Person.SPEC\_USE, Parkwork.PSP\_USE

### ELEMENT VALUES:

| Codes | Attributes                                                                    |
|-------|-------------------------------------------------------------------------------|
| 00    | <a href="#">No Special Use</a>                                                |
| 01    | <a href="#">Taxi</a>                                                          |
| 02    | <a href="#">Vehicle Used for School Transport</a>                             |
| 03    | <a href="#">Vehicle Used as Other Bus</a>                                     |
| 04    | <a href="#">Military</a>                                                      |
| 05    | <a href="#">Police</a>                                                        |
| 06    | <a href="#">Ambulance</a>                                                     |
| 07    | <a href="#">Fire Truck</a>                                                    |
| 08    | <a href="#">Non-Transport Emergency Services Vehicle</a>                      |
| 10    | <a href="#">Safety Service Patrols - Incident Response</a>                    |
| 12    | <a href="#">Towing - Incident Response</a>                                    |
| 11    | <a href="#">Other Incident Response</a>                                       |
| 19    | <a href="#"><b><i>Motor Vehicle Used for Vehicle Sharing Mobility</i></b></a> |
| 20    | <a href="#"><b><i>Motor Vehicle Used for Electronic Ride-Hailing</i></b></a>  |
| 21    | <a href="#">Mail Carrier</a>                                                  |
| 22    | <a href="#">Public Utility</a>                                                |
| 23    | <a href="#">Rental Truck Over 10,000 lbs.</a>                                 |
| 24    | <a href="#">Truck Operating with Crash Attenuator Equipment</a>               |
| 98    | <a href="#">Not Reported</a>                                                  |
| 99    | <a href="#">Reported as Unknown</a>                                           |

**Definition:** This data element identifies if a special use is applicable to this vehicle at the time it was involved in the crash.

**Remarks:** This data element identifies any special use associated with this motor vehicle at the time of the crash. The special function served by this motor vehicle should be coded regardless of whether the function is marked on the vehicle.

**00 (No Special Use)** is used when the available information does not indicate or imply that this vehicle was applicable to any of the special uses listed above.

**01 (Taxi)** is used when this vehicle was being used during this trip (at the time of the crash) on a “fee-for-hire” basis to transport people. Most of these vehicles will be marked and formally

registered as taxis; however, vehicles that are used as taxis, even though they are not registered are included here. For vehicles affiliated with a transportation network company, see [20 \(Motor Vehicle Used for Electronic Ride-Hailing\)](#). Passengers do not have to be present at the time of the crash. Taxis and drivers that are off-duty at the time of the crash are coded as [00 \(No Special Use\)](#). If it is unknown whether the taxi is on-duty or not, code as **01 (Taxi)**. This attribute also applies for limousines on a “fee-for-hire” basis.

**02 (Vehicle Used for School Transport)** is used for any motor vehicle that satisfies all the following criteria:

- operated, leased, owned, or contracted by a public or private school-type institution;
- where the institution’s students may range from pre-school through high school;
- whose occupants (if any) are associated with the institution; and,
- at the time of the crash the vehicle is being used for transportation to/from a school or on a school-sponsored activity or trip.

**Note:** This attribute also includes vehicles that are not externally identifiable as a school/pupil transport vehicle but do meet all the other criteria above. For example, a transit bus, at the time of the crash, used exclusively (no other passengers except students) to transport students to/from the school or school-related activity.

In most cases, the decision to use this attribute will be based on a reference to the vehicle as a school bus in the available information. In this situation, assume the criteria are met unless it is otherwise stated in the available information.

**03 (Vehicle Used as Other Bus)** is used when a motor vehicle is designed for transporting nine or more people including the driver and does not satisfy the above “school bus” criteria. For example, [NCSA BODY TYPE code “School Bus”](#) transporting senior citizens to an activity.

**04 (Military)** is used for any vehicle that is owned by any of the Armed Forces regardless of body type. This attribute includes

- military police vehicles,
- military ambulances,
- military hearses, and
- military fire vehicles.

**05 (Police)** is used for a vehicle equipped with police emergency devices (lights and siren) that is owned or subsidized by any local, county, State, or Federal Government entity. The police vehicle is presumed to be in special use at all times, although not necessarily in “emergency use.” Vehicles not owned by a government entity that are used by law enforcement officers (e.g., undercover) are excluded.

**06 (Ambulance)** is used for any readily identifiable (lights or markings) vehicles designed to transport sick or injured people. The ambulance is presumed to be in special use at all times, although not necessarily in “emergency use.”

**07 (Fire Truck)** is used for any readily identifiable (lights or markings) vehicles specially designed and equipped to respond to fire, hazmat, medical, and extrication incidents. This

attribute includes medium and heavy vehicles such as engines, pumpers, ladder, platform aerial apparatus, heavy rescue vehicles, water tenders or tankers, brush or wilderness firefighting vehicles, etc. The fire truck is presumed to be in special use at all times, although not necessarily in “emergency use.”

**08 (Non-Transport Emergency Services Vehicle)** is used for any readily identified (lights and markings) vehicles that do not meet the criteria for [06 \(Ambulance\)](#) or [07 \(Fire Truck\)](#), and are specifically designed and equipped to respond to fire, hazmat, medical, and extrication incidents. This attribute includes light vehicles such as sedans, van, SUVs, pickups, trucks, motorcycles, etc. This attribute includes vehicles that have been dispatched to an incident or have initiated operation in a non-emergency mode and are not transporting passengers, such as patients or suspects. An example of a Non-Transport Emergency Services vehicle is a fire chief’s unit, commonly an SUV.

**NOTE on Incident Response Vehicles:** An Incident Response Vehicle is a vehicle typically equipped with a variety of tools, emergency medical equipment, traffic cones and control signs, absorbent material (for responding to spills), emergency and work lighting. These multi-purpose response units are intended to assist law enforcement, fire, and rescue personnel with trafficway incident management. A traffic incident scene is the scene of any unplanned traffic event that adversely effects normal traffic operations. Examples include, but are not limited to, traffic crashes, disabled vehicles, traffic backups, or spilled cargo.

**10 (Safety Service Patrols - Incident Response)** is used for special units that patrol highways to provide temporary traffic control for emergency situations, assistance with disabled vehicles, traffic incident scene management, and emergency response. The case material must indicate the vehicle was responding to a traffic incident at the time of its involvement in the crash.

**12 (Towing - Incident Response)** is used for any type of tow truck involved in the crash while providing tow service at a traffic incident scene. The tow truck does not need to have a vehicle in tow at the time of the crash to use this attribute. The case material must indicate the vehicle was responding to a traffic incident at the time of its involvement in the crash. Tow trucks involved in crashes under any other circumstances are not included in this attribute. Please see VEHICLE LEVEL-RELATED FACTOR [042 \(Other Working Vehicle\)](#) for these other circumstances.

**11 (Other Incident Response)** is used for Incident Response Vehicles excluding [10 \(Safety Service Patrols - Incident Response\)](#) and [12 \(Towing - Incident Response\)](#). Vehicles responding to clean up spills are examples of this. The case material must indicate the vehicle was responding to a traffic incident at the time of its involvement in the crash.

**19 (Motor Vehicle Used for Vehicle Sharing Mobility)** *is used when this motor vehicle was part of a shared mobility service (Transportation Network Company) to provide customers with the vehicle only (no driver included) at the time of the crash.*

*Examples may include car-sharing, personal vehicle sharing, e-bike sharing, or other on-demand motor vehicle transportation services on an as-needed basis.*

**20 (Motor Vehicle Used for Electronic Ride-Hailing)** is used when this vehicle was actively working for a transportation network company (TNC) *to provide passengers with transportation, on the way to pick up passengers, dropping off passengers, or waiting to provide passengers with transportation* at the time of the crash. If the vehicle was off duty and in use as a personal vehicle, use code [00 \(No Special Use\)](#). A TNC may also be called a mobility

service provider (MSP). Both apply here as they both connect paying passengers seeking transportation with vehicles/drivers via websites and mobile apps.

***Examples may include TNCs such as Beat, Uber, Lyft, Juno, Pick Me Up, Bolt, and others.***

**21 (Mail Carrier)** is used when the case material indicate this vehicle was a U.S. Postal Service (USPS) authorized mail carrier at the time of the crash. This includes personal vehicles being used as rural USPS-authorized mail carriers. This attribute excludes other delivery services (e.g., FedEx, UPS). See also VEHICLE LEVEL-RELATED FACTOR [042 \(Other Working Vehicle\)](#).

**22 (Public Utility)** is used when the case material indicate this vehicle was a public utility vehicle (electricity, gas, telephone, cable, etc.). This attribute may be used with any [UNIT TYPE](#). For example, a utility truck parked at a work site or in-transport back to the depot.

**23 (Rental Truck over 10,000 lbs.)** is used when case material indicate the vehicle was being used as a rental vehicle at the time of the crash ([NCSA BODY TYPES](#) 60-79). This attribute is intended for rental trucks in use by private citizens, not for uses by commercial concerns as part of regular business. For example, a homeowner rents a truck to move their belongings.

**24 (Truck Operating with Crash Attenuator Equipment)** is used when the case material indicate this vehicle was specially equipped with devices to absorb impacts from collisions and was in use as a crash attenuator at the time of the crash ([UNIT TYPE](#) must equal 4).

**98 (Not Reported)** *Check to see if [00 \(No Special Use\)](#) or [99 \(Reported as Unknown\)](#) are more appropriate for the situation.*

If a State's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**."

Code **98 (Not Reported)** in these two situations:

1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

**99 (Reported as Unknown)** is used if the investigating officer reported SPECIAL USE as unknown.

Consistency Checks [\(See Section 400\)](#):

| <b>Error ID</b> | <b>IF</b>                                     | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1D0P            | SPECIAL USE equals 01 <b>or</b> 20,           | <b>vPIC Body Class should equal 002 (Minivan), 003 (Coupe), 005 (Hatchback/Liftback/Notchback), 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 008 (Crossover Utility Vehicle (CUV)), 09 (Van), 013 (Sedan/Saloon), 015 (Wagon), 060 (Pickup), or 119 (Sport Utility Truck (SUT)).</b>                                                                                                                                                                                                            |
| 1D0Q            | SPECIAL USE equals 00-03, <b>19</b> , 20-24,  | EMERGENCY MOTOR VEHICLE USE must equal 0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 1D0R            | SPECIAL USE equals 23,                        | REGISTERED VEHICLE OWNER should equal 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 1D0S            | SPECIAL USE equals 10, 11, 12, 21, 22, or 24, | REGISTERED VEHICLE OWNER should equal 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>1D0T</b>     | <b>SPECIAL USE equals 19,</b>                 | <b>REGISTERED VEHICLE OWNER must not equal 1.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 1D1P            | SPECIAL USE equals 24,                        | UNIT TYPE must equal 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 1D2P            | SPECIAL USE equals 12 or 21,                  | at least one RELATED FACTORS - VEHICLE LEVEL must equal 042.                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>1E0P</b>     | <b>SPECIAL USE equals 19,</b>                 | <b>vPIC Body Class must not equal a 011 (Truck), 016 (Bus), 066 (Truck-Tractor), 068 (Streetcar / Trolley), 073 (Bus - School Bus), 095 (Cargo Van), 111 (Step Van / Walk-in Van), 117 (Limousine), 126 (Off-road Vehicle - Farm Equipment), or 127 (Off-road Vehicle - Construction Equipment), and FINAL STAGE BODY CLASS must not equal 011 (Truck), 016 (Bus), 066 (Truck-Tractor), 068 (Streetcar / Trolley), 073 (Bus - School Bus), 095 (Cargo Van), 111 (Step Van / Walk-in Van), or 117 (Limousine).</b> |
| 2D0P            | SPECIAL USE equals 02,                        | <b>vPIC Body Class should equal 002 (Minivan), 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 008 (Crossover Utility Vehicle (CUV)), 009 (Van), 016 (Bus), 073 (Bus - School Bus), or 119 (Sport Utility Truck (SUT)), or FINAL STAGE BODY CLASS should equal 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 008 (Crossover Utility Vehicle (CUV)), 009 (Van), 016 (Bus), or 073 (Bus - School Bus).</b>                                                                          |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>THEN</b>                                                                                                                                                                                                                                                         |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3A0P            | SPECIAL USE equals 07,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b><i>vPIC BODY CLASS must equal 011 (Truck), or FINAL STAGE BODY CLASS must equal 997 (Other (Specify:)).</i></b>                                                                                                                                                  |
| 3D0P            | SPECIAL USE for any vehicle equals 02,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | SCHOOL BUS RELATED must equal 1.                                                                                                                                                                                                                                    |
| 4A0P            | <b><i>vPIC BODY CLASS equals 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 097 (Off-road Vehicle - Snowmobile), 098 (Motorcycle - Street), 100 (Motorcycle - Enclosed Three Wheeled / Enclosed Autocycle), 103 (Motorcycle - Unenclosed Three Wheeled / Open Autocycle), 104 (Moped), 105 (Off-road Vehicle - Recreational Off-Road Vehicle (ROV)), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 124 (Off-road Vehicle - Golf Cart), 125 (Motorcycle - Unknown Body Type), 126 (Off-road Vehicle - Farm Equipment), 127 (Off-road Vehicle - Construction Equipment), or 996 (Motorized Bicycle),</i></b> | <b><i>SPECIAL USE must not equal 01-03, 06, 07, 12, or 20-24.</i></b>                                                                                                                                                                                               |
| 4D0P            | SPECIAL USE equals 03,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b><i>vPIC BODY CLASS must equal 009 (Van), 016 (Bus), 068 (Streetcar / Trolley), 073 (Bus-School Bus), or 117 (Limousine), or FINAL STAGE BODY CLASS must equal 009 (Van), 016 (Bus), 068 (Streetcar / Trolley), 073 (Bus-School Bus), or 117 (Limousine).</i></b> |



| <b>Error ID</b> | <b>IF</b>                                                                                                | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5D0P            | SPECIAL USE equals 04,                                                                                   | <i>vPIC BODY CLASS should equal 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 009 (Van), 011 (Truck), 016 (Bus), 060 (Pickup), 066 (Truck-Tractor), 095 (Cargo Van), 119 (Sport Utility Truck (SUT)), 997 (Other (Specify:)), or 999 (Unknown), or FINAL STAGE BODY CLASS should equal 009 (Van), 011 (Truck), 016 (Bus), 060 (Pickup), 066 (Truck-Tractor), 095 (Cargo Van), 119 (Sport Utility Truck (SUT)), 997 (Other (Specify:)), or 999 (Unknown).</i> |
| 5M0G            | SPECIAL USE equals 06, and PERSON TYPE equals 02 or 09,                                                  | RELATED FACTORS - PERSON (MV OCCUPANT) LEVEL should equal 092, 094, or 095.                                                                                                                                                                                                                                                                                                                                                                                                   |
| 5M1G            | SPECIAL USE equals 21 and PERSON TYPE equals 01,                                                         | SEATING POSITION should equal 13.                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>5M2G</b>     | <b><i>SPECIAL USE equals 06, and PERSON TYPE equals 02, and SEATING POSITION equals 51,</i></b>          | <b><i>at least one RELATED FACTORS - PERSON LEVEL should equal 092 or 094.</i></b>                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>5M3G</b>     | <b><i>SPECIAL USE equals 06, and PERSON TYPE equals 01 or 02, and SEATING POSITION equals 11-19,</i></b> | <b><i>at least one RELATED FACTORS - PERSON LEVEL should equal 094, or at least one RELATED FACTORS - DRIVER LEVEL should equal 094.</i></b>                                                                                                                                                                                                                                                                                                                                  |
| 6D0P            | SPECIAL USE equals 05,                                                                                   | <i>vPIC BODY CLASS should equal 006 (Motorcycle - Standard), 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 008 (Crossover Utility Vehicle (CUV)), 009 (Van), 013 (Sedan/Saloon), 015 (Wagon), 060 (Pickup), 081 (Motorcycle - Touring / Sport Touring), 082 (Motorcycle - Cruiser), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 119 (Sport Utility Truck (SUT)), or 125 (Motorcycle - Unknown Body Type).</i>                                      |
| 7D0P            | SPECIAL USE equals 06,                                                                                   | NCSA BODY TYPE must equal 11, 14-17, 19, 21, 22, 28, 29, 40, 41, 45, 48, 49, 61, 62, 64, 79, 98, 99.                                                                                                                                                                                                                                                                                                                                                                          |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                           | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8D0P            | SPECIAL USE equals 08,                                                                                                                                                                                                              | <i>vPIC BODY CLASS should equal 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 011 (Truck), 060 (Pickup), or 119 (Sport Utility Truck (SUT)), or FINAL STAGE BODY CLASS should equal vPIC BODY CLASS should equal 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 011 (Truck), 060 (Pickup), or 119 (Sport Utility Truck (SUT)), and POWER UNIT GVWR_FROM and POWER UNIT GVWR_TO should be in 11-12.</i> |
| U050            | UNLIKELY: SPECIAL USE equals 04, 08.                                                                                                                                                                                                | --                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| U080            | <i>vPIC BODY CLASS does not equal 009 (Van), 016 (Bus), 068 (Streetcar / Trolley), or 073 (Bus-School Bus), and FINAL STAGE BODY CLASS does not equal 009 (Van), 016 (Bus), 068 (Streetcar / Trolley), or 073 (Bus-School Bus),</i> | UNLIKELY: SPECIAL USE equals 02 or 03.                                                                                                                                                                                                                                                                                                                                                                                                  |
| U420            | UNLIKELY: SPECIAL USE equals 98 <i>unless STATE or PSU_STATE equals 25.</i>                                                                                                                                                         | --                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| V032            | SPECIAL USE equals 10, 11, or 12,                                                                                                                                                                                                   | <i>vPIC BODY CLASS should equal 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 009 (Van), 011 (Truck), 060 (Pickup), or 119 (Sport Utility Truck (SUT)), or FINAL STAGE BODY CLASS should equal 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 009 (Van), 011 (Truck), 060 (Pickup), or 119 (Sport Utility Truck (SUT)).</i>                                                                            |
| V056            | SPECIAL USE equals 02,                                                                                                                                                                                                              | BUS USE should equal 01.                                                                                                                                                                                                                                                                                                                                                                                                                |
| V057            | SPECIAL USE equals 03,                                                                                                                                                                                                              | BUS USE should equal 04-07, 98, or 99.                                                                                                                                                                                                                                                                                                                                                                                                  |
| V058            | EMERGENCY MOTOR VEHICLE USE equals 2-6,                                                                                                                                                                                             | SPECIAL USE should equal 04-08, 10, 11, 12, or 24.                                                                                                                                                                                                                                                                                                                                                                                      |
| V059            | BUS USE equals 01,                                                                                                                                                                                                                  | SPECIAL USE must equal 02.                                                                                                                                                                                                                                                                                                                                                                                                              |
| V060            | SPECIAL USE equals 04,                                                                                                                                                                                                              | REGISTRATION STATE should equal 94.                                                                                                                                                                                                                                                                                                                                                                                                     |
| V061            | BUS USE equals 04-07,                                                                                                                                                                                                               | SPECIAL USE must equal 03.                                                                                                                                                                                                                                                                                                                                                                                                              |
| V330            | SCHOOL BUS RELATED equals 1,                                                                                                                                                                                                        | <i>vPIC BODY CLASS or FINAL STAGE BODY CLASS of at least one of the involved vehicles should equal 073 (Bus - School Bus), or SPECIAL USE for at least one involved vehicle should equal 02, or BUS USE for at least one vehicle should equal 01.</i>                                                                                                                                                                                   |

| <b>Error ID</b> | <b>IF</b>              | <b>THEN</b>                                                                                                                                                                                                                                                         |
|-----------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| V596            | SPECIAL USE equals 23, | <b><i>POWER UNIT GVWR_FROM and POWER UNIT GVWR_TO must be in 13-18, and vPIC BODY CLASS must equal 009 (Van), 011 (Truck), 060 (Pickup), or 095 (Cargo Van), or FINAL STAGE BODY CLASS must equal 009 (Van), 011 (Truck), 060 (Pickup), or 095 (Cargo Van).</i></b> |

**Consistency Checks (FARS Only) [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>              | <b>THEN</b>                                                                      |
|-----------------|------------------------|----------------------------------------------------------------------------------|
| AR0P            | SPECIAL USE equals 04, | REGISTERED VEHICLE OWNER must not equal 0, 1, 2, 4.                              |
| V560            | SPECIAL USE equals 04, | REGISTERED VEHICLE OWNER should equal 3, and REGISTRATION STATE should equal 94. |

## V29 - Emergency Motor Vehicle Use

**FORMAT:** 1 numeric

**SAS NAME:** Vehicle.EMER\_USE, Person.EMER\_USE, Parkwork.PEM\_USE

**ELEMENT VALUES:**

| Codes | Attributes                                                                      |
|-------|---------------------------------------------------------------------------------|
| 0     | <a href="#">Not Applicable</a>                                                  |
| 2     | <a href="#">Non-Emergency, Non-Transport</a>                                    |
| 3     | <a href="#">Non-Emergency Transport</a>                                         |
| 4     | <a href="#">Emergency Operation, Emergency Warning Equipment Not in Use</a>     |
| 5     | <a href="#">Emergency Operation, Emergency Warning Equipment in Use</a>         |
| 6     | <a href="#">Emergency Operation, Emergency Warning Equipment in Use Unknown</a> |
| 8     | <a href="#">Not Reported</a>                                                    |
| 9     | <a href="#">Reported as Unknown</a>                                             |

**Definition:** Emergency Motor Vehicle Use indicates operation of any motor vehicle that is legally authorized by a government authority to respond to emergencies with or without the use of emergency warning equipment, such as a police vehicle, fire truck, or ambulance while actually engaged in such response.

**Remarks:** Emergency use also refers to an official motor vehicle that is usually traveling with emergency signals in use while engaged in an emergency response; typically, red light blinking, siren sounding, etc. Services such as escorting a funeral procession, providing traffic control assistance at a work zone, or for a motorcade or a parade would not qualify as emergency uses.

If **SPECIAL USE** is [04 \(Military\)](#), [05 \(Police\)](#), [06 \(Ambulance\)](#), [07 \(Fire Truck\)](#), [08 \(Non-Transport, Emergency Services Vehicle\)](#), [10 \(Safety Service Patrols - Incident Response\)](#), [11 Other Incident Response\)](#), or [12 \(Towing - Incident Response\)](#), then refer to the case material to determine if the vehicle was on an emergency response (i.e., red lights flashing, siren sounding, on route to hospital, etc.) at the time of the crash.

**0 (Not Applicable)** is used when **SPECIAL USE** for this vehicle is coded [00 \(No Special Use\)](#), [01 \(Taxi\)](#), [02 \(Vehicle Used as School Transport\)](#), [03 \(Vehicle Used as Other Bus\)](#), [19 \(Motor Vehicle Used for Vehicle Sharing Mobility\)](#), [20 \(Motor Vehicle Used for Electronic Ride-Hailing\)](#), [21 \(Mail Carrier\)](#), [22 \(Public Utility\)](#), [23 \(Rental Truck Over 10,000 lbs.\)](#), or [24 \(Truck Operating with Crash Attenuator Equipment\)](#).

**2 (Non-Emergency, Non-Transport)** is used when the authorized emergency vehicle has been dispatched to an incident or has initiated operation in a non-emergency mode and is not transporting passengers, such as patients or suspects. The emergency vehicle operator is not using emergency lighting, audible siren, or emergency vehicle maneuvers.

**3 (Non-Emergency Transport)** is used when the authorized emergency vehicle has been dispatched to an incident or has initiated a transport-related operation in a non-emergency mode. The emergency vehicle operator is not using emergency lighting, audible siren, or emergency

vehicle maneuvers. For example, transport of a suspect from one location to another, or inter-facility transport of a patient in an ambulance to a nursing home.

**4 (Emergency Operation, Emergency Warning Equipment Not in Use)** is used when the authorized emergency vehicle has been dispatched to an incident or has initiated an emergency operation and has no emergency lighting or audible siren in use. The emergency vehicle operator may be using emergency vehicle maneuvers as allowed under State law. Examples: a police car in the last mile approaching a bank robbery; transport of a patient in an ambulance for which lights and sirens are not used per protocol.

**5 (Emergency Operation, Emergency Warning Equipment in Use)** is used when the authorized emergency vehicle has been dispatched to an incident or has initiated an emergency operation and is using an audible siren and/or has illuminated its emergency lighting devices. The emergency vehicle operator is using, or is prepared to use, emergency vehicle maneuvers as allowed by State law.

**6 (Emergency Operation, Emergency Warning Equipment in Use Unknown)** is used when the authorized emergency vehicle has been dispatched to an incident or has initiated an emergency operation and it cannot be determined if it is using an audible siren and/or has illuminated its emergency lighting devices.

**8 (Not Reported)** *Check to see if [0 \(Not Applicable\)](#) or [9 \(Reported as Unknown\)](#) are more appropriate for the situation.*

If a State's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported.**"

Code **8 (Not Reported)** in these two situations:

1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

**Examples:**

- The case material are not clear as to whether the vehicle was on an emergency response.
- The case material are not clear as to whether the vehicle is legally authorized by a government authority to respond to emergencies.

**9 (Reported as Unknown)** is used if the investigating officer reported emergency use as unknown.

**Consistency Checks [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                                                    | <b>THEN</b>                                                            |
|-----------------|--------------------------------------------------------------|------------------------------------------------------------------------|
| 1D0Q            | SPECIAL USE equals 00-03, <b>19</b> , 20-24,                 | EMERGENCY MOTOR VEHICLE USE must equal 0.                              |
| PB44            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 240, | EMERGENCY MOTOR VEHICLE USE should equal 2-6 for at least one vehicle. |
| V058            | EMERGENCY MOTOR VEHICLE USE equals 2-6,                      | SPECIAL USE should equal 04-08, 10, 11, 12, or 24.                     |

## V30 - Travel Speed

**FORMAT:** 3 numeric

**SAS NAME:** Vehicle.TRAV\_SP

### ELEMENT VALUES:

| Codes   | Attributes                                         |
|---------|----------------------------------------------------|
| 000     | <a href="#">Stopped Motor Vehicle In-Transport</a> |
| 001-151 | Reported Speed Up to 151 mph                       |
| 997     | Greater than 151 MPH                               |
| 998     | <a href="#">Not Reported</a>                       |
| 999     | <a href="#">Reported as Unknown</a>                |

**Definition:** This element records the speed the vehicle was traveling prior to the occurrence of the crash as reported by the investigating officer.

**Remarks:** Code the TRAVEL SPEED as indicated by the investigating officer. Do not enter the [SPEED LIMIT](#). It is permissible to use estimates by drivers or witnesses reported in the case material if the speed reported is not contradictory to the officer's reported travel speed. See clarification on the use of information provided by witnesses in section [103. Data Sources](#). TRAVEL SPEED should be representative of the vehicle's speed associated with the pre-event movement, prior to any avoidance maneuvers. If the police calculated a speed, please be aware that this may represent the impact speed that is not necessarily the travel speed.

Code the nearest mph for this vehicle as reported on the case material.

### Examples:

| Reported Speed | Code |
|----------------|------|
| 40.2 mph       | 40   |
| 40.5 mph       | 41   |

If the officer gives a range, code the median speed and, if necessary, round up to the next higher whole number. If the officer gives a minimum speed (e.g., "at least 55 mph" or "in excess of 60 mph,") then use that speed (e.g., code as "55" and "60" respectively).

### Examples:

| Reported Speed | Code |
|----------------|------|
| 40-50 mph      | 45   |
| 45-50 mph      | 48   |

**000 (Stopped Motor Vehicle In-Transport)** is used when this vehicle is stopped on the roadway.

**998 (Not Reported)** Check to see if [999 \(Reported as Unknown\)](#) is more appropriate for the situation.

If a State's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported.**"

Code **998 (Not Reported)** in these two situations:

1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

**Examples:**

1. the officer did not mention Travel Speed, or
2. did not indicate Travel Speed within a field in the case material.

**999 (Reported as Unknown)** is used when the officer indicates that the TRAVEL SPEED is unknown.

**Consistency Checks** [\(See Section 400\):](#)

| <b>Error ID</b> | <b>IF</b>                                                                | <b>THEN</b>                                                                                              |
|-----------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| 39IP            | TRAVEL SPEED is equal to 000 and ATTEMPTED AVOIDANCE MANEUVER equals 01, | PRE-IMPACT STABILITY must equal 1.                                                                       |
| 3B0P            | JACKKNIFE equals 2, 3,                                                   | TRAVEL SPEED must not equal 000.                                                                         |
| 3B1P            | CRASH TYPE equals 21-23,                                                 | TRAVEL SPEED must equal 000 for this vehicle.                                                            |
| 40IP            | TRAVEL SPEED is equal to 000,                                            | ATTEMPTED AVOIDANCE MANEUVER should equal <b>00 or 01</b> .                                              |
| 41IP            | TRAVEL SPEED is equal to 000,                                            | DRIVER MANEUVERED TO AVOID should equal 00 <b>or 95</b> .                                                |
| <b>42IP</b>     | <b>TRAVEL SPEED equals 000,</b>                                          | <b>PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 00, 05, 07, 17, 98, or 99.</b> |
| A090            | NUMBER OF VEHICLE FORMS SUBMITTED is greater than 001,                   | there should be at least one vehicle with TRAVEL SPEED of 001-151, 997-999, or blanks.                   |



| <b>Error ID</b> | <b>IF</b>                                                                    | <b>THEN</b>                                                                      |
|-----------------|------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| A100            | FIRST HARMFUL EVENT is not equal to 02, 04, 05, 10, 16,                      | there should be one vehicle with TRAVEL SPEED of 001-151, 997-999, or blanks.    |
| AZA0            | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 05 or 07, | TRAVEL SPEED must equal 000 for this vehicle.                                    |
| <b>U111</b>     | <b><i>Unlikely TRAVEL SPEED is 97, 98, or 99.</i></b>                        | --                                                                               |
| VH70            | UNIT TYPE equals 2-4,                                                        | elements JACKKNIFE, TRAVEL SPEED, AND SEQUENCE OF EVENTS must all be left blank. |

**Consistency Checks (FARS Only) ([See Section 400](#)):**

| <b>Error ID</b> | <b>IF</b>                                                                            | <b>THEN</b>                                            |
|-----------------|--------------------------------------------------------------------------------------|--------------------------------------------------------|
| A240            | LAND USE AND FUNCTIONAL SYSTEM (b) equals 01, and RELATION TO JUNCTION (a) equals 0, | TRAVEL SPEED should not equal 005-040 for any vehicle. |

### V31 - Underride/Override - FARS Only

**FORMAT:** 1 numeric

**SAS NAME:** Vehicle.UNDERIDE, Parkwork.PUNDERIDE

**ELEMENT VALUES:**

| Codes | Attributes                                                                                             |
|-------|--------------------------------------------------------------------------------------------------------|
| 0     | <a href="#">No Underride or Override Noted</a>                                                         |
| 1     | <a href="#">Underriding a Motor Vehicle In-Transport, Underride, Compartment Intrusion</a>             |
| 2     | <a href="#">Underriding a Motor Vehicle In-Transport, Underride, No Compartment Intrusion</a>          |
| 3     | <a href="#">Underriding a Motor Vehicle In-Transport, Underride, Compartment Intrusion Unknown</a>     |
| 4     | <a href="#">Underriding a Motor Vehicle Not In-Transport, Underride, Compartment Intrusion</a>         |
| 5     | <a href="#">Underriding a Motor Vehicle Not In-Transport, Underride, No Compartment Intrusion</a>      |
| 6     | <a href="#">Underriding a Motor Vehicle Not In-Transport, Underride, Compartment Intrusion Unknown</a> |
| 7     | <a href="#">Overriding a Motor Vehicle In-Transport</a>                                                |
| 8     | <a href="#">Overriding a Motor Vehicle Not In-Transport</a>                                            |
| 9     | <a href="#">Unknown if Underride or Override</a>                                                       |

**Definition:** This element indicates whether an underride or override occurred during the crash involving this vehicle.

**Remarks:**

UNDERRIDE/OVERRIDE is not applicable to [NCSA BODY TYPES 80-84, 88-91](#) (motorcycles, ATVs, snowmobiles); use [0 \(No Underride or Override Noted\)](#).

**Rationale:** Needed to identify the magnitude of crashes in which an underride or override occurs to support NHTSA rulemaking activities and motor vehicle bumper compatibility research.

For underrides and overrides, it is important to determine the vehicle performing the action. Two vehicles cannot be considered to underride and override simultaneously.

In cases in which two vehicles collide “head-on” and one vehicle ends up under the other, you must determine whether an **Underride** or **Override** has occurred.

An **Underride** refers to a vehicle sliding under another vehicle during a crash. *Examples include vehicles completely underriding a trailer from the side without stopping and vehicles striking the rear end or the side of a tractor-trailer and coming to a stop under the trailer.* In these examples, the automobile is the underriding vehicle. We distinguish between those underriding vehicles with compartment intrusion versus those with no compartment intrusion.

- **Compartment intrusion** indicates a breach of the passenger compartment of this underriding (striking) vehicle. For example, damage to the windshield or glass area.

- **No compartment intrusion** means that the underridden vehicle (struck vehicle) did not directly enter the passenger compartment of this vehicle (for example, damage to the hood or front bumper).

An **Override** refers to a vehicle riding up over another (including a parked vehicle). A vehicle straddling a guardrail, for example, is not coded as an override.

**0 (No Underride or Override Noted)** is used when there is no indication in the case material that this vehicle was involved in and underride or override as defined above. Also use this attribute for [NCSA BODY TYPES 80-84, 88-91](#) (motorcycles, ATVs, snowmobiles).

### ***Underrides and Vehicles Under Other Vehicles***

Codes “1-3” are used when **this vehicle** underrides a motor vehicle in-transport (includes those in motion outside the trafficway).

Codes “4-6” are used when **this vehicle** underrides a motor vehicle that is Not In-Transport. This includes parked/stopped off roadway motor vehicles and working motor vehicles (e.g., cherry picker, paint-striping truck).

#### **Compartment Intrusion Guidelines:**

To use Codes “1” or “4,” the police crash report should indicate that the passenger compartment of the underriding (striking) vehicle has been damaged. Sources of this information can be the police crash report narrative and/or the vehicle damage scale. If the top of the vehicle is damaged, as noted by the vehicle damage scale, codes “1” or “4” would apply.

Codes “2” and “5,” **Underride, No Compartment Intrusion**, are used when a portion of the vehicle is under another, and it is known that there is no passenger compartment intrusion. Codes “3” and “6” are used when it is unknown if there is passenger compartment intrusion.

### ***Overrides***

**7 (Overriding a Motor Vehicle In-Transport)** is used when this vehicle overrides a motor vehicle in-transport (includes those in motion outside the trafficway).

**8 (Overriding a Motor Vehicle Not In-Transport)** is used when this vehicle overrides a motor vehicle not in-transport. This includes parked/stopped off roadway motor vehicles and working motor vehicles (e.g., cherry picker, paint-striping truck).

**9 (Unknown if Underride or Override)** is used when an Underride or Override occurred but it cannot be determined which is appropriate.

Consistency Checks [\(See Section 400\)](#):

| <b>Error ID</b> | <b>IF</b>                                                                                          | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 431P            | NUMBER OF VEHICLE FORMS SUBMITTED equals 002 and UNDERRIDE/OVERRIDE equals 1-8, 9 for one vehicle, | UNDERRIDE/OVERRIDE for the other vehicle must equal 0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 432P            | NUMBER OF VEHICLE FORMS SUBMITTED equals 001,                                                      | UNDERRIDE/OVERRIDE must equal 0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 440P            | UNDERRIDE/OVERRIDE equals 7,                                                                       | <b>VEHICLE SEQUENCE OF EVENTS must not equal 12, 14, 45, or 55, or CRASH EVENTS equals 12, 14, 45, or 55 for that vehicle, AND the vPIC BODY CLASS for at least one of the corresponding vehicles (THIS VEHICLE or OTHER VEHICLE) in that row equals 006 (Motorcycle – Standard), 012 (Motorcycle – Scooter), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring / Sport Touring ), 082 (Motorcycle - Cruiser ), 083 (Motorcycle – Trike), 084 (Off-road Vehicle - Dirt Bike / Off-Road), 085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road), 086 (Off-road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small / Minibike), 088 (Off-road Vehicle - Go Kart), 090 (Motorcycle - Side Car), 094 (Motorcycle – Custom), 097 (Off-road Vehicle – Snowmobile), 098 (Motorcycle – Street), 104 (Motorcycle – Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle – Underbone), 113 (Off-road Vehicle - Motocross (Off-road short distance, closed track racing)), 114 (Motorcycle – Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle).</b> |
| 6A1P            | UNDERRIDE/OVERRIDE equals 1-8,                                                                     | NCSA BODY TYPE must not equal 80-84, 88-91.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 9B3P            | UNDERRIDE/OVERRIDE equals 7,                                                                       | there must be at least one vehicle with UNIT TYPE equal to 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 9B4P            | UNDERRIDE/OVERRIDE equals 8,                                                                       | there must at least one vehicle with UNIT TYPE equal 2-4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 9B5P            | UNIT TYPE equals 2, 3,                                                                             | UNDERRIDE/OVERRIDE must equal 0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>THEN</b>                                                                                    |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| V750            | UNDERRIDE/OVERRIDE equals 1-3,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | FIRST HARMFUL EVENT or at least one SEQUENCE OF EVENTS (for this vehicle) should equal 12, 55. |
| V760            | UNDERRIDE/OVERRIDE equals 4-6,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | FIRST HARMFUL EVENT or at least one SEQUENCE OF EVENTS (for this vehicle) should equal 14, 45. |
| V770            | UNDERRIDE/OVERRIDE equals 7,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | at least one SEQUENCE OF EVENTS (for this vehicle) must equal 12, 55.                          |
| V780            | UNDERRIDE/OVERRIDE equals 8,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | at least one SEQUENCE OF EVENTS (for this vehicle) must equal 14, 45.                          |
| <b>VP87</b>     | <b><i>vPIC BODY CLASS equals 006 (Motorcycle – Standard), 012 (Motorcycle – Scooter), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring / Sport Touring ), 082 (Motorcycle - Cruiser ), 083 (Motorcycle – Trike), 084 (Off-road Vehicle - Dirt Bike / Off-Road), 085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road), 086 (Off-road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small / Minibike), 088 (Off-road Vehicle - Go Kart), 090 (Motorcycle - Side Car), 094 (Motorcycle – Custom), 097 (Off-road Vehicle – Snowmobile), 098 (Motorcycle – Street), 104 (Motorcycle – Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle – Underbone), 113 (Off-road Vehicle - Motocross (Off-road short distance, closed track racing)), 114 (Motorcycle – Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle),</i></b> | <b><i>UNDERRIDE/OVERRIDE must equal 7.</i></b>                                                 |

| <b>Error ID</b> | <b>IF</b>                                       | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>VP88</b>     | <b><i>UNDERRIDE/OVERRIDE equals 1 or 2,</i></b> | <b><i>vPIC BODY CLASS must not equal 006 (Motorcycle – Standard), 012 (Motorcycle – Scooter), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring / Sport Touring ), 082 (Motorcycle - Cruiser ), 083 (Motorcycle – Trike), 084 (Off-road Vehicle - Dirt Bike / Off-Road), 085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road), 086 (Off-road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small / Minibike), 088 (Off-road Vehicle - Go Kart), 090 (Motorcycle - Side Car), 094 (Motorcycle – Custom), 097 (Off-road Vehicle – Snowmobile), 098 (Motorcycle – Street), 104 (Motorcycle – Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle – Underbone), 113 (Off-road Vehicle - Motocross (Off-road short distance, closed track racing)), 114 (Motorcycle – Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle).</i></b> |

## V32 - Rollover

**FORMAT:** 1 numeric

**SAS NAME:** Vehicle.ROLLOVER, Person.ROLLOVER

**ELEMENT VALUES:**

| Codes | Attributes                                          |
|-------|-----------------------------------------------------|
| 0     | <a href="#">No Rollover</a>                         |
| 1     | <a href="#">Rollover, Tripped by Object/Vehicle</a> |
| 2     | <a href="#">Rollover, Untripped</a>                 |
| 9     | <a href="#">Rollover, Unknown Type</a>              |

**Definition:** This element identifies whether a rollover or overturn occurred during the crash involving this vehicle.

**Remarks:** ROLLOVER is defined as any vehicle rotation of 90 degrees or more about any true longitudinal or lateral axis. Rollover can also be referred to as overturn or end-over, and can occur at any time during this vehicle's [SEQUENCE OF EVENTS](#).

ROLLOVER does **not** apply to 2-wheeled motorcycles for this element (use [0 \(No Rollover\)](#)). However, in the [FIRST HARMFUL EVENT](#), [MOST HARMFUL EVENT](#), and [SEQUENCE OF EVENTS](#) you may use [01 \(Rollover/ Overturn\)](#) to record that this vehicle (motorcycle) overturned. *If a motorcycle is pulling a trailing unit that overturns, the motorcycle should have [01 \(Rollover/Overturn\)](#) in its Crash Events. However, since the power unit is a motorcycle, the element ROLLOVER still does NOT apply.*

A ROLLOVER can be used for 3- or 4-wheeled ATVs, snowmobiles, go-karts, and 3-wheeled motorcycles.

**0 (No Rollover)** is used when there is no indication that a rollover occurred.

**1 (Rollover, Tripped by Object/Vehicle)** is used when the vehicle's lateral motion is *known to have been* suddenly slowed or stopped by an opposing force, inducing a rollover. The opposing force may be produced by a curb, ditch, pothole, another vehicle, pavement, or soil dug into by the vehicle's wheels. This includes instances where a vehicle impacts a fixed object (e.g., tree, barrier, pole, or post) then rolls over.

**2 (Rollover, Untripped)** is used when a rollover occurs *and it is known that the rollover was* not a result of a collision with an object or a vehicle or generated by any other opposing force as referred to in [1 \(Rollover, Tripped by Object/Vehicle\)](#). An untripped rollover is one for which there is no obvious cause other than normal surface friction. This is usually the result of vehicle instability and there is no evidence of furrowing or gouging on the pavement, gravel, grass, or dirt surface.

**9 (Rollover, Unknown Type)** is used when a rollover occurred, but there is not sufficient information to determine tripped versus untripped status.

Consistency Checks [\(See Section 400\)](#):

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>THEN</b>                                                     |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| 1Z2P            | any SEQUENCE OF EVENTS equals 01, <b>and</b> <b>vPIC BODY CLASS does not equal 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 104 (Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle), or any RELATED FACTORS-VEHICLE LEVEL equals 030,</b> | ROLLOVER must equal 1, 2, or 9.                                 |
| 5A0P            | <b>vPIC BODY CLASS equals 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 104 (Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle), and any RELATED FACTORS - VEHICLE LEVEL does not equal 030,</b>              | ROLLOVER must equal 0.                                          |
| V700            | ROLLOVER equals 2,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | CRASH TYPE should equal 01-10, 14, 98, or 99 for this vehicle.  |
| V74P            | UNIT TYPE equals 1, and ROLLOVER equals 1, 2, 9, or LOCATION OF ROLLOVER equals 1-7, 9,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | at least one SEQUENCE OF EVENTS must equal 01 for this vehicle. |



| <b>Error ID</b> | <b>IF</b>                                             | <b>THEN</b>                                                                                     |
|-----------------|-------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| V75P            | ROLLOVER is not blank,                                | LOCATION OF ROLLOVER must not be blank.                                                         |
| V76P            | ROLLOVER is blank,                                    | LOCATION OF ROLLOVER must be blank.                                                             |
| V77P            | ROLLOVER equals 1, 2, 9,                              | LOCATION OF ROLLOVER must equal 1-7, 9.                                                         |
| V78P            | ROLLOVER equals 0,                                    | LOCATION OF ROLLOVER must equal 0.                                                              |
| V79P            | ROLLOVER equals 2, and FIRST HARMFUL EVENT equals 01, | CRASH TYPE must equal 01-10, 14, 15, or 98 for the vehicle involved in the FIRST HARMFUL EVENT. |

### V33 - Location of Rollover

**FORMAT:** 1 numeric

**SAS NAME:** Vehicle.ROLINLOC

**ELEMENT VALUES:**

| Codes | Attributes                            |
|-------|---------------------------------------|
| 0     | No Rollover                           |
| 1     | <a href="#">On Roadway</a>            |
| 2     | <a href="#">On Shoulder</a>           |
| 3     | <a href="#">On Median/Separator</a>   |
| 4     | <a href="#">In Gore</a>               |
| 5     | <a href="#">On Roadside</a>           |
| 6     | <a href="#">Outside of Trafficway</a> |
| 7     | <a href="#">In Parking Lane/Zone</a>  |
| 9     | <a href="#">Unknown</a>               |

**Definition:** This element identifies the location of the trip point or start of the vehicle's roll.

**Remarks:**

**1 (On Roadway)** is used when the available information indicates the vehicle tripped or began its roll on the roadway. A roadway is that part of a trafficway designed, improved, and ordinarily used for motor vehicle travel. Where various classes of motor vehicles are segregated, that part of a trafficway used by a particular class is the roadway (i.e., travel lanes). Separate roadways may be provided for northbound and southbound traffic or for trucks and automobiles. This includes continuous left-turn lanes.

**2 (On Shoulder)** is used when the available information indicates the vehicle tripped or began its roll on the shoulder. A shoulder is that part of a trafficway contiguous with the roadway for emergency use, for accommodation of stopped road vehicles, and for lateral support of the roadway structure.

**3 (On Median/Separator)** is used when the available information indicates the vehicle tripped or began its roll on the median/separator. A median is an area of a trafficway between parallel roads separating travel in opposite directions. Continuous left-turn lanes are not considered painted medians. A separator is the area of a trafficway between parallel roads separating travel in the same direction or separating a frontage road.

**4 (In Gore)** is used when the available information indicates the vehicle tripped or began its roll in the gore. The gore is an area of land where two roadways diverge or converge. The area is bounded on two sides by the edges of the roadways, which join at the point of divergence or convergence. The direction of traffic must be the same on both of these roadways. The area includes shoulders or marked pavement, if any, between the roadways. (See [Figure 11](#))

**5 (On Roadside)** is used when the available information indicates the vehicle tripped or began its roll on the roadside. Roadside is the outermost part of the trafficway from the property line or other boundary into the edge of the first road.

**6 (Outside of Trafficway)** is used when the available information indicates the vehicle tripped or began its roll outside the right-of-way.

**7 (In Parking Lane/Zone)** refers to an area on the roadway, or next to the roadway, on which parking is permitted in marked or unmarked spaces. This includes curbside and edge of-roadway parking (for example, legal residential parking, city-street parking, etc.). Sometimes a strip of roadway can be designated for parking at certain hours of the day (parking lane) and for regular travel at other hours (travel lane). This code should NOT be used during hours when parking is NOT permitted (see [1 \(On Roadway\)](#)).

**9 (Unknown)** is used when the location of the trip point cannot be determined from available resources.

If the [FIRST HARMFUL EVENT](#) was a [01 \(Rollover/Overturn\)](#), then:

| If <a href="#">Relation to Trafficway</a> equals:               | Then Location of Rollover should equal: |
|-----------------------------------------------------------------|-----------------------------------------|
| <a href="#">01 (On Roadway)</a>                                 | 1 (On Roadway)                          |
| <a href="#">02 (On Shoulder)</a>                                | 2 (On Shoulder)                         |
| <a href="#">03 (On Median)</a>                                  | 3 (On Median/Separator)                 |
| <a href="#">04 (On Roadside)</a>                                | 5 (On Roadside)                         |
| <a href="#">05 (Outside Trafficway)</a>                         | 6 (Outside of Trafficway)               |
| <a href="#">06 (Off Roadway - Location Unknown)</a>             | 9 (Unknown)                             |
| <a href="#">07 (In Parking Lane/Zone)</a>                       | 7 (In Parking Lane/Zone)                |
| <a href="#">08 (Gore)</a>                                       | 4 (In Gore)                             |
| <a href="#">10 (Separator)</a>                                  | 3 (On Median/Separator)                 |
| <a href="#">11 (Continuous Left-Turn Lane)</a>                  | 1 (On Roadway)                          |
| <a href="#">12 (Pedestrian Refuge Island or Traffic Island)</a> | 5 (On Roadside)                         |
| <a href="#">98 (Not Reported)</a>                               | 9 (Unknown)                             |
| <a href="#">99 (Reported as Unknown)</a>                        | 9 (Unknown)                             |

Consistency Checks [\(See Section 400\)](#):

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>THEN</b>                                                     |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| A380            | FIRST HARMFUL EVENT equals 01 and this vehicle is involved in the FIRST HARMFUL EVENT and <b>vPIC BODY CLASS does not equal 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring / Sport Touring), 082 (Motorcycle - Cruiser), 084 Off-road Vehicle - Dirt Bike / Off-Road), 085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road), 086 (Off-road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small / Minibike), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 104 (Motorcycle - Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motocross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle),</b> for this vehicle, and RELATION TO TRAFFICWAY equals _____, | LOCATION OF ROLLOVER should equal _____ respectively.           |
| V74P            | UNIT TYPE equals 1, and ROLLOVER equals 1, 2, 9, or LOCATION OF ROLLOVER equals 1-7, 9,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | at least one SEQUENCE OF EVENTS must equal 01 for this vehicle. |
| V75P            | ROLLOVER is not blank,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | LOCATION OF ROLLOVER must not be blank.                         |
| V76P            | ROLLOVER is blank,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | LOCATION OF ROLLOVER must be blank.                             |
| V77P            | ROLLOVER equals 1, 2, 9,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | LOCATION OF ROLLOVER must equal 1-7, 9.                         |
| V78P            | ROLLOVER equals 0,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | LOCATION OF ROLLOVER must equal 0.                              |

### V34 - Areas of Impact – Initial Contact Point / Damaged Areas

**FORMAT:** 2 subfields: Subfield 1, 2 numeric; Subfield 2, Select All That Apply

**SAS NAME:** Vehicle.IMPACT1, Person.IMPACT1, Parkwork.PIMPACT1,  
**Damage.DAMAGE**

**ELEMENT VALUES:**

#### Subfield 1: Areas of Impact - Initial Contact Point

| Codes | Attributes                                                                    |
|-------|-------------------------------------------------------------------------------|
| 00    | <a href="#">Non-Collision</a>                                                 |
| 01-12 | <a href="#">Clock Points</a>                                                  |
| 13    | <a href="#">Top</a>                                                           |
| 14    | <a href="#">Undercarriage</a>                                                 |
| 61    | <a href="#">Left</a>                                                          |
| 62    | <a href="#">Left - Front Side</a>                                             |
| 63    | <a href="#">Left - Back Side</a>                                              |
| 81    | <a href="#">Right</a>                                                         |
| 82    | <a href="#">Right - Front Side</a>                                            |
| 83    | <a href="#">Right - Back Side</a>                                             |
| 18    | <a href="#">Cargo/Vehicle Parts Set in Motion</a>                             |
| 19    | <a href="#">Other Objects or Person Set in Motion</a>                         |
| 20    | <a href="#">Object Set in Motion, Unknown if Cargo/Vehicle Parts or Other</a> |
| 98    | <a href="#">Not Reported</a>                                                  |
| 99    | <a href="#">Reported as Unknown</a>                                           |

#### Subfield 2: Damaged Areas

| Codes | Attributes                           |
|-------|--------------------------------------|
| 01-12 | <a href="#">Clock Values</a>         |
| 13    | <a href="#">Top</a>                  |
| 14    | <a href="#">Undercarriage</a>        |
| 15    | <a href="#">No Damage</a>            |
| 99    | <a href="#">Damage Areas Unknown</a> |

**Definition (Areas of Impact - Initial Contact Point):** This subfield identifies the area on this vehicle that produced the first instance of injury to non-motorists or occupants of this vehicle, or that resulted in the first instance of damage to other property or to this vehicle.

**Definition (Damaged Areas):** This subfield identifies all the areas on this vehicle that were damaged in the crash as reflected in the case material by the officer.

**Remarks:** If AREAS OF IMPACT- INITIAL CONTACT POINT / DAMAGED AREAS are provided on the crash report in this exact format, use the values from the report unless there are clear errors (e.g., officer switches vehicles by mistake). If these elements are not provided on the crash report in this exact format, then similar report fields, narrative, or diagram information may be used to code these elements. These subfields do not refer to direction of force of the impact. They identify the area(s) on the vehicle associated with the initial contact ([Subfield 1](#)) and all damage to the vehicle identified in the case material ([Subfield 2](#)).

### ***Areas of Impact - Initial Contact Point (Subfield 1):***

This subfield identifies the area on this vehicle that produced the first instance of injury to non-motorists or occupants of this vehicle, or that resulted in the first instance of damage to other property or to this vehicle. The event that produced the Initial Contact Point for this vehicle may or may not be the FIRST HARMFUL EVENT for the **crash**. This data is derived from the [CRASH EVENTS](#) Table and will always be the first recorded AREA(S) OF IMPACT element value for each vehicle in the Crash Events Table.

See the [Coding Guide: Vehicle Components and Areas of Impact](#) for helpful information.

\*Note the same element values from **Areas of Impact - Initial Contact Point** are used to complete the **Areas of Impact (AOI)** fields in the [CRASH EVENTS](#) Table for all harmful events.

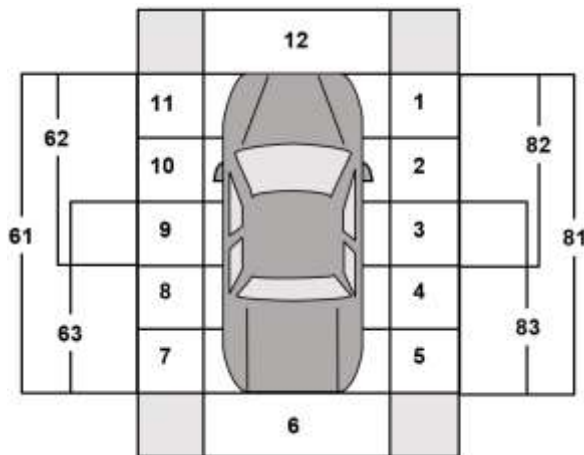


*Figure 15: Areas of Impact - Initial Contact Point Element Values Diagram*

### **00 (Non-Collision [Initial Contact Point])**

If the first harmful event involving this vehicle in the Crash Events Table is a [non-collision event](#), then Initial Contact Point will be **00 (Non-Collision)**.

“01-12” refer to the points on a clock (see [Figure 15](#)). The sides of the vehicle are divided into 5 equal segments, 01 through 05 for the right side and 07 through 11 for the left side. The front

(12), back (06), top (13) and undercarriage (14) complete the outside surfaces of the vehicle. Use the diagrams in [Figure 15](#) for examples of how the 5 equal side segments are created on several vehicle types.

As procedure, start by looking for one of the “clock” values 01-12 or specific situation values 00, 13, 14, 18. If sufficient detail is not available to choose one of these values, move out to the next set of values to try to identify the appropriate codes (i.e., **62-63, 82-83**, then **61, 81**). (See [Figure 15](#)) Lastly, for missing information pertaining to known harmful events, a [98 \(Not Reported\)](#) attribute is available.

### **61-63 and 81-83:**

Codes 62-63 and 82-83 are used when there is not sufficient detail available in the case material to identify a more specific AREA OF IMPACT, 01-05 and 07-11, but one of the quadrants can be identified (i.e., **62 (Left-Front Side)**, **63 (Left-Back Side)**, **82 (Right-Front Side)**, or **83 (Right-Back Side)**). Also, use these attributes if the case material indicate that the damage area is “between” or overlapping two known clock points. (e.g., if the damage area is midway between or overlapping clock points 10 and 11, use **62 (Left-Front Side)**).

Codes 61 and 81 are used when there is not sufficient detail available in the case material to identify a more specific AREA OF IMPACT, 62-63 or 82-83, but one of the sides can be identified (i.e., **61 (Left)** or **81 (Right)**).

### **Guideline for Resolving Ambiguous Information**

If the language in the narrative is ambiguous **AND** the diagram or other case information don’t provide resolution, use the area indicated **first in the narrative wording** to select the AREA OF IMPACT to code. See examples table below.

### **Examples:**

| <b>Description</b> | <b>Coding</b> |
|--------------------|---------------|
| Front, left        | 12            |
| Left, front        | 62            |
| Front, corner      | 12            |
| Right, rear        | 83            |
| Back, right side   | 06            |

It is important to note that AREA OF IMPACT refers mainly to the area of the vehicle that sustained the damage and does not depend upon the attitude of the vehicle (e.g., damage to a grille is still damage at 12 o-clock even if it was caused by sliding sideways past a utility pole).

However, **13 (Top)** may raise questions. The front and rear windows of some vehicles may also be viewed from the top. It may also be difficult to code impacts to the hood and rear deck of a vehicle.

With **13 (Top)** the direction of force sometimes must be considered. The following are guidelines for using **13 (Top)**.

1. If the area was damaged by an impact that was received horizontally to an upright vehicle, use one of the codes “01 to 12, 61-63, 81-83.”
2. If the area was damaged by an impact that was received from a vertical direction above the upright vehicle, use **13 (Top)**.
3. If the impact was received or direction of force was at an angle of less than 15 degrees above the horizontal, it is considered horizontal.
4. With a vehicle in other than upright attitudes, remember, it is the area of the vehicle that was damaged that is important.

**14 (Undercarriage)** refers to non-horizontal impacts to the undercarriage or swiping or snagging of undercarriage components (axles, exhaust system, etc.). Tire/Wheel impacts are coded to the AREA OF IMPACT (01-12, 61-63, 81-83). If a vehicle impacts the side plane of a truck tractor/trailer, and the AOI for the truck tractor/trailer is listed as undercarriage on the police crash report, code the truck tractor/trailer’s AOI - Initial Contact clock point involved in the impact rather than **14 (Undercarriage)**.

#### **Special Instructions Involving Motorcycles:**

For cases involving a motorcycle where the area of initial contact is described as “front tire/wheel” or “front end” code as **12 (Front)**, or “rear tire/wheel” or “rear end” code as **06 (Back)** if the impact was received on a horizontal plane.

If the only event for a vehicle is a [non-collision event](#), the AREA OF IMPACT - Initial is coded **00 (Non-Collision)**. If following a non-collision event, a vehicle has a collision event; AREA OF IMPACT, INITIAL CONTACT POINT is still coded **00 (Non-Collision)**.

Hitting the ground during a non-collision crash is not considered an “impact” for this subfield.

#### **Set in Motion Attributes:**

“Loads” of a vehicle includes people or property upon or set in motion by the vehicle, people boarding or alighting from the vehicle, and people or property attached to and in position to move with the vehicle. A vehicle associated with a harmful event produced by a load being separated from, or propelled by, the vehicle should have one of the three set in motion AOI values for this event. These set in motion values identify that only the load has made contact with the other vehicle, person, or other property in that event.

#### **Important Notes:**

- A load separated from, or an object propelled by, a vehicle should **not** receive a [SEQUENCE OF EVENTS 63 \(Ran Off Roadway-Right\)](#), [64 \(Ran Off Roadway-Left\)](#), [65 \(Cross Median\)](#), [68 \(Cross Centerline\)](#), or [69 \(Re-entering Roadway\)](#) associated with the movement of the load because these events apply to the vehicle itself and not to the load or object that was propelled. For example, if logs fall from a truck and only the logs (load of the truck) cross the centerline, this crossing of the centerline by the load would **NOT** receive a **68 (Cross Centerline)** event.



- If debris set in motion as the result of a vehicle to vehicle collision produces a subsequent harmful event (e.g., strikes a third vehicle) and you cannot reasonably determine which vehicle the debris came from, use the lowest vehicle number of the MVIT(s) involved in the vehicle to vehicle event that produced the debris. In the element [RELATED FACTORS - VEHICLE LEVEL](#) use code [029 \(Default Code Used for Vehicle Numbering\)](#).
- The in-transport vehicle setting the object in motion and the object set in motion are coded under **VEHICLE NUMBER (THIS VEHICLE)** and **AOI (This Vehicle)**.
- The only time **AOI (This Vehicle)** and **AOI (Other Vehicle)** are both coded **18 (Cargo/Vehicle Parts Set in Motion)**, **19 (Other Objects or Person Set in Motion)**, or **20 (Object Set in Motion, Unknown if Cargo/Vehicle Parts or Other)** is if the impact is between objects set in motion **by both** in-transport motor vehicles.

**18 (Cargo/Vehicle Parts Set in Motion)** is selected when the harmful event involves an impact between a fixed/non-fixed object or vehicle and cargo or parts from an in-transport motor vehicle that are set in motion. That is, use this code when the object set in motion is cargo (e.g., mattress, logs, tools, unsecured objects on the in-transport motor vehicle) or a part of an in-transport motor vehicle (e.g., hubcap or mirror).

**Examples:**

Vehicle 1 (log truck) swerves to avoid a braking vehicle (Vehicle 2). A log becomes dislodged from Vehicle 1 and lands on Vehicle 2's top.

- Vehicle 1 AREA OF IMPACT, INITIAL CONTACT POINT would be coded as **18 (Cargo/Vehicle Parts Set in Motion)**.
- Vehicle 2 AREA OF IMPACT, INITIAL CONTACT POINT would be coded as [13 \(Top\)](#).

**19 (Other Objects or Person Set in Motion)** is used when the harmful event involves an object set in motion by an in-transport motor vehicle that is **NOT** cargo or part of the in-transport motor vehicle (e.g., kicked-up stone, motorcycle rider, parked vehicle, stop sign).

**Examples:**

Vehicle 1 kicks up a stone that impacts Vehicle 2's windshield.

1. Vehicle 1 AREA OF IMPACT, INITIAL CONTACT POINT would be coded as **19 (Other Objects or Person Set in Motion)**.
2. Vehicle 2 AREA OF IMPACT, INITIAL CONTACT POINT would be coded as **12 (Front)**.

**20 (Object Set in Motion, Unknown if Cargo/Vehicle Parts or Other)** is used when it is UNKNOWN whether the object was the cargo or a part of an in-transport motor vehicle ([18 \(Cargo/Vehicle Parts Set in Motion\)](#)) or some other object ([19 \(Other Objects or Person Set in Motion\)](#)).

**98 (Not Reported)** Check to see if [99 \(Reported as Unknown\)](#) is more appropriate for the situation.

If a State's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported.**"

**Code 98 (Not Reported)** in these two situations:

1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

**AREAS OF IMPACT - Initial Contact Point Examples of Not Reported:**

- The case material lack the detail to identify the initial contact point at all (e.g., narrative only states the vehicle departed the roadway and impacted a tree).
- The case material lack the detail to identify the initial contact point among a number of possible choices for the first harmful event for the vehicle (e.g., crash report field indicates front and right side damage from separate impacts and does not clarify which area is associated with the initial impact).

**99 (Reported as Unknown)** is used if the investigating officer reported that the Initial Contact Point was unknown.

**Areas of Impact - Damaged Areas (Subfield 2):**

This subfield identifies all the areas on this vehicle that were damaged in the crash as reflected in the case material. For trailers that become separated from the power unit at the onset of the unstabilized situation or during the crash, treat the entire combination as one unit when recording Damaged Areas. Please see the Clock Point Diagrams in [Figure 17](#) to establish damage areas for combination vehicles. See the [Coding Guide: Vehicle Components and Areas of Impact](#) for helpful information.

**Vehicles noted as "totaled:"**

This element is identifying the vehicle planes that were damaged, so do not assume that a vehicle noted in the case material as "totaled" translates to all areas being damaged. This term is often referring to the cost to repair the damage, not the areas damaged.

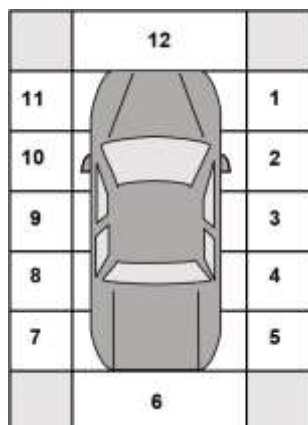


Figure 16: Damaged Areas Element Values Diagram

\*Note: When entering the data there are three short cut selections in **RBIS** for identifying multiple areas. Those selections are:

1. **Select All** - this will select all values **01-12**, **13 (Top)**, and **14 (Undercarriage)**
2. **Left Side** - this will select all values **07-11**.
3. **Right Side** - this will select all values **01-05**.

**01-12 (Clock Values)** refer to the points on a clock (see [Figure 16](#)) to identify areas on the vehicle that were damaged in the crash. This subfield includes induced damage identified in the report. For example, the case material show an impact centered at 03 (AOI - Initial Contact) that produced damage in 02, 03, 04. The sides of the vehicle are divided into 5 equal segments, 01 through 05 for the right side and 07 through 11 for the left side. The front (12), back (06), top (13), and undercarriage (14) complete the outside surfaces of the vehicle. Use the diagrams in [Figure 17](#) for examples of how the 5 equal side segments are created on several vehicle types.

**13 (Top)** includes damage to the hood, windshield, roof, rear window, and trunk deck.

**14 (Undercarriage)** includes damage to the tires/wheels, axles, exhaust system, etc.

**15 (No Damage)** is used for vehicles that experience harmful events, but the events do not produce physical damage to the vehicle itself.

**Examples include:**

- Vehicles that have the [non-collision harmful events](#) of gas inhalation, injured in vehicle, fell/jumped from vehicle, or other non-collision.
- Vehicles that have a collision event but the event does not produce damage to the vehicle such as running over a pedestrian lying in the roadway, striking a bicyclist, striking another vehicle where only the struck vehicle is damaged, or when the only collision event is cargo falling from this vehicle that lands on another vehicle or person.

**99 (Damage Areas Unknown)** is used when the case material does not indicate which area or areas received damage or when the information in the case material is confusing or inadequate for the purposes of this determination.

### **Handling of known events with unknown damage areas:**

For situations where you have known damage areas associated with a specific event(s), and additional harmful events without knowing specific damage areas for the additional events, code only the known damage areas in this subfield. For example, if the narrative only states that “V1 struck several trees” with the only indication of damage given as the initial front contact, and a police crash report box marked “Totaled,” code only 12 for the known damage to the front of the vehicle.

### **Handling of non-collision harmful events that produce vehicle damage:**

For situations where a vehicle is involved in the following [non-collision harmful events](#): (01) **Rollover/Overturn**, (02) **Fire/Explosion**, (03) **Immersion or Partial Immersion**, (16) **Thrown or Falling Object**, (44) **Pavement Surface Irregularity (Ruts, Potholes, Grates, etc.)**, (51) **Jackknife (harmful to this vehicle)**, or (72) **Cargo/Equipment Loss or Shift (harmful to this vehicle)**, code only the damage areas reflected in the case material by the officer.

**For example, the investigating officer may indicate damaged locations that translate to:**

- 01-12, 13, 14 for a vehicle that was consumed by a fire or immersed in a river.
- 01-05, 13 for a vehicle that rolls onto its right side and then roof.
- 13 for a vehicle that only has damage to the hood from a fire.
- 13 for a vehicle that has a tree fall on its roof.
- 14 for a vehicle that strikes a pothole on its undercarriage.

Do not record damage at these locations for these non-collision harmful events unless so indicated by the case material.

If a vehicle that experiences only these non-collision events and has only “non-collision” reflected in the case material by the officer for its damaged areas, then use [99 \(Damage Areas Unknown\)](#).

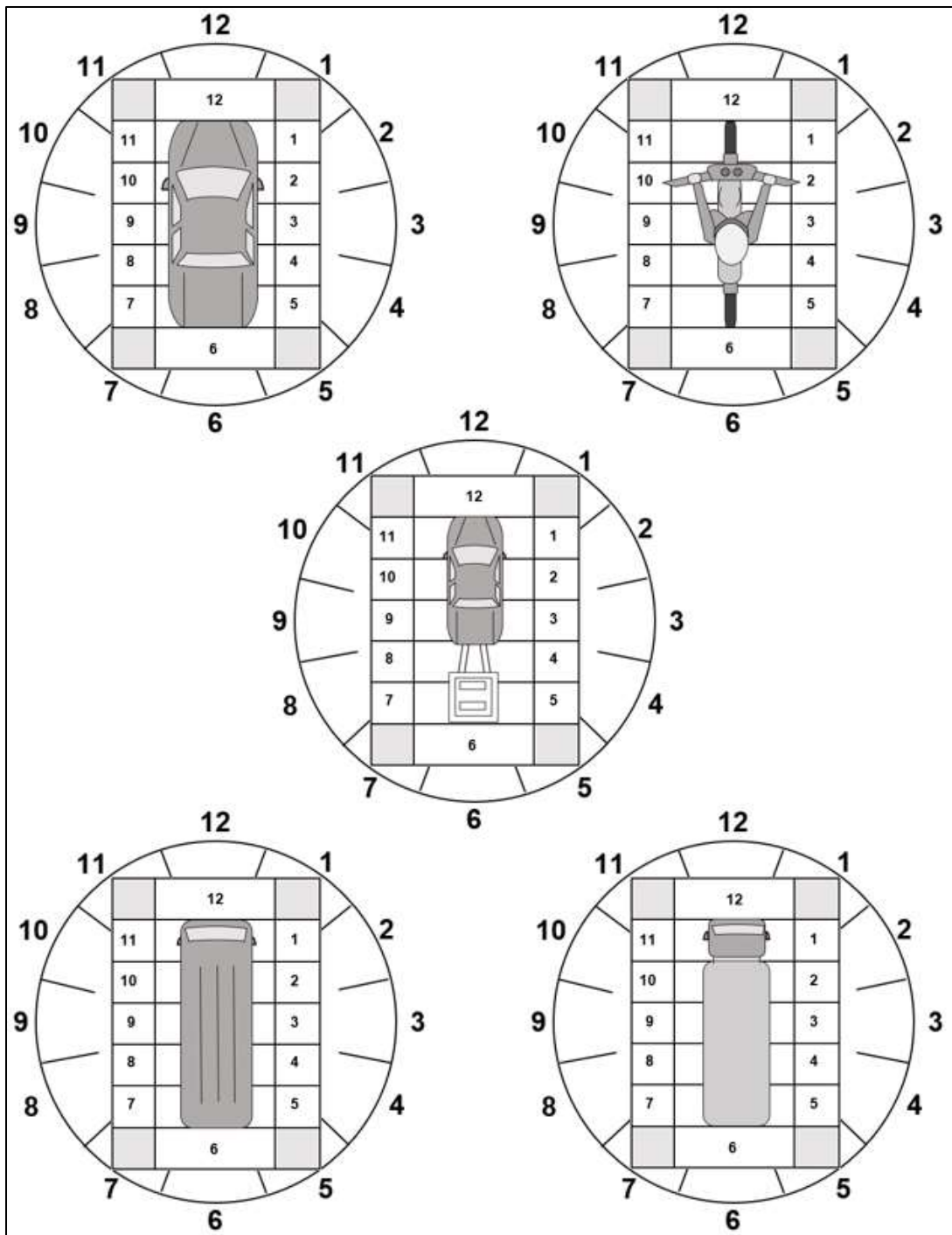


Figure 17: Clock Point Diagrams

Consistency Checks [\(See Section 400\)](#):

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>THEN</b>                                                                                                                                                                                             |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2U0Q            | <b><i>vPIC BODY CLASS equals 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small / Minibike), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 104 (Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle),</i></b> | AREA OF IMPACT - INITIAL CONTACT POINT should not equal 14.                                                                                                                                             |
| 3B2P            | CRASH TYPE equals 20, 24, 28, 34, 36, 38, 40, 50-54, 56, 58, or 60,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | AREA OF IMPACT-INITIAL CONTACT POINT must equal 12 for this vehicle.                                                                                                                                    |
| 3B3P            | CRASH TYPE equals 21-23, 25-27, 29-31, 35, 37, 39, or 41,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | AREA OF IMPACT-INITIAL CONTACT POINT must equal 6 for this vehicle.                                                                                                                                     |
| 3B6P            | CRASH TYPE equals 87,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | AREA OF IMPACT-INITIAL CONTACT POINT must equal 01-05, 81-83 for this vehicle.                                                                                                                          |
| 3B7P            | CRASH TYPE equals 89,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | AREA OF IMPACT-INITIAL CONTACT POINT must equal 07-11, 61-63 for this vehicle.                                                                                                                          |
| 3CA0            | EXTENT OF DAMAGE for this vehicle equals 0,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | DAMAGED AREAS must equal only 15.                                                                                                                                                                       |
| 420P            | MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 07, 08,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | there must be at least two vehicle forms with AREA OF IMPACT-INITIAL CONTACT POINT equal to 01-05, 07-11, 61-63, 81-83, 98, 99.                                                                         |
| 421P            | MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 01,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | AREA OF IMPACT-INITIAL CONTACT POINT for one vehicle in the first harmful event must equal 12, and AREA OF IMPACT-INITIAL CONTACT POINT for the other vehicle in the first harmful event must equal 06. |

| <b>Error ID</b> | <b>IF</b>                                                                                                                             | <b>THEN</b>                                                                                                                                                                                                                                             |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 422P            | MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 02,                                                                             | AREA OF IMPACT-INITIAL CONTACT POINT for one vehicle in the first harmful event must equal 12, and AREA OF IMPACT-INITIAL CONTACT POINT for the other vehicle in the first harmful event must equal 12.                                                 |
| 423P            | MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 06,                                                                             | AREA OF IMPACT-INITIAL CONTACT POINT for one vehicle in the first harmful event must equal 01, 11, 12, 98, 99, and AREA OF IMPACT-INITIAL CONTACT POINT for the other vehicle in the first harmful event must equal 01-05, 07-11, 61-63, 81-83, 98, 99. |
| 424P            | MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 09,                                                                             | AREA OF IMPACT-INITIAL CONTACT POINT for one vehicle in the first harmful event should equal 06, and AREA OF IMPACT-INITIAL CONTACT POINT for the other vehicle in the first harmful event should equal 01-05, 07-11, 61-63, 81-83, 98, 99.             |
| 425P            | MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 10,                                                                             | AREA OF IMPACT- INITIAL CONTACT POINT for one vehicle in the first harmful event should equal 06, and AREA OF IMPACT- INITIAL CONTACT POINT for the other vehicle in the first harmful event should equal 06, 98, 99.                                   |
| 8L8Q            | AREA OF IMPACT (THIS VEHICLE) equals 18, 19, or 20 in the CRASH EVENTS,                                                               | the corresponding event in that row must not equal 12 or 55.                                                                                                                                                                                            |
| 8L8R            | the CRASH EVENTS event equals 54,                                                                                                     | AREA OF IMPACT (THIS VEHICLE) must equal 18, 19, or 20 in that row.                                                                                                                                                                                     |
| 8L8S            | AREA OF IMPACT (THIS VEHICLE) equals 18, 19, or 20 in the CRASH EVENTS and the corresponding event in that row equals 14, 45, or 54,  | RELATED FACTORS-CRASH LEVEL must equal 014.                                                                                                                                                                                                             |
| 8L8T            | RELATED FACTORS-CRASH LEVEL equals 014,                                                                                               | there must exist at least one event in the CRASH EVENTS where AREA OF IMPACT (THIS VEHICLE or OTHER VEHICLE) equals 18, 19, or 20 and the corresponding event in that row equals 14, 45, or 54.                                                         |
| 8L8U            | AREA OF IMPACT (THIS VEHICLE) equals 18, 19, or 20 in the CRASH EVENTS and the corresponding event in that row equals 08, 09, 15, 49, | RELATED FACTORS-CRASH LEVEL must equal 015.                                                                                                                                                                                                             |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>THEN</b>                                                                                                                                                                                |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8L8V            | RELATED FACTORS-CRASH LEVEL equals 015,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | there must exist at least one event in the CRASH EVENTS where AREA OF IMPACT (THIS VEHICLE) equals 18, 19, or 20, and the corresponding event in that row equals 08-10, 15, 18, 49, or 91. |
| 8L8W            | SEQUENCE OF EVENTS is not equal to 45,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | AREA OF IMPACT (OTHER VEHICLE) should not equal 18 or 19.                                                                                                                                  |
| 8L8X            | AREA OF IMPACT (THIS VEHICLE) equals 18,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | there should be a previous event involving that vehicle where the CRASH EVENTS event equals 60, 61, 62, or 72.                                                                             |
| 8L8Y            | SEQUENCE OF EVENTS is equal to 45 (Working Motor Vehicle),                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | AREA OF IMPACT (THIS VEHICLE) and AREA OF IMPACT (OTHER VEHICLE) should not both equal 18 or 19 in that same event row.                                                                    |
| 8L9P            | <b>vPIC BODY CLASS</b> does not equal <b>006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring / Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 Off-road Vehicle - Dirt Bike / Off-Road), 085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road), 086 (Off-road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small / Minibike), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 097 (Off-road Vehicle - Snowmobile), 098 (Motorcycle - Street), 104 (Motorcycle - Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motocross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle)</b> , and the CRASH EVENTS event equals 54, and the corresponding AREAS OF IMPACT (THIS VEHICLE) equals 19 or 20 in that row, | there should be a previous event with CRASH EVENTS event equal to 18, 73, 91, or 98 involving that vehicle.                                                                                |
| BZ10            | CRITICAL EVENT - PRECRASH (EVENT) equals 53,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | AREA OF IMPACT-INITIAL CONTACT POINT should not equal 12 for this vehicle.                                                                                                                 |
| BZ20            | CRITICAL EVENT - PRECRASH (EVENT) equals 51, 52,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | AREA OF IMPACT-INITIAL CONTACT POINT should not equal 06 for this vehicle.                                                                                                                 |



| <b>Error ID</b> | <b>IF</b>                                                                              | <b>THEN</b>                                                                                                                                                           |
|-----------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FP1F            | AREA OF IMPACT - INITIAL CONTACT POINT equals blank,                                   | case status is flawed.                                                                                                                                                |
| V595            | RELATED FACTORS - VEHICLE LEVEL equals 029 for this vehicle,                           | at least one other vehicle in the crash must have an AREA OF IMPACT equal to 18, 19, or 20 associated with an event involving this vehicle in the crash events table. |
| VH81            | any DAMAGED AREAS equals 15 or 99,                                                     | only that one value must be coded.                                                                                                                                    |
| VH82            | EXTENT OF DAMAGE for this vehicle equals 2, 4, 6,                                      | DAMAGED AREAS must not equal 15.                                                                                                                                      |
| VH83            | the only harmful SEQUENCE OF EVENTS for this vehicle equals 04-06,                     | DAMAGED AREAS should equal 15.                                                                                                                                        |
| VH84            | the only harmful SEQUENCE OF EVENTS for this vehicle equals 01-03, 16, 44, 51, 72, 98, | DAMAGED AREAS should not equal 15.                                                                                                                                    |
| VH85            | AREA OF IMPACT-INITIAL CONTACT POINT equals 61-63,                                     | DAMAGED AREAS should include at least one of the codes 07-11, or DAMAGED AREAS should equal 15 or 99.                                                                 |
| VH86            | AREA OF IMPACT-INITIAL CONTACT POINT equals 81-83,                                     | DAMAGED AREAS should include at least one of the codes 01-05, or DAMAGED AREAS should equal 15 or 99.                                                                 |
| VH87            | HIT-AND-RUN equals 0, and AREA OF IMPACT-INITIAL CONTACT POINT equals 01-14,           | the corresponding code should be included in DAMAGED AREAS, or DAMAGED AREAS should equal 15.                                                                         |

## V35 - Extent of Damage

**FORMAT:** 1 numeric

**SAS NAME:** Vehicle.DEFORMED, Parkwork.PVEH\_SEV

**ELEMENT VALUES:**

| Codes | Attributes                          |
|-------|-------------------------------------|
| 0     | <a href="#">No Damage</a>           |
| 2     | <a href="#">Minor Damage</a>        |
| 4     | <a href="#">Functional Damage</a>   |
| 6     | <a href="#">Disabling Damage</a>    |
| 8     | <a href="#">Not Reported</a>        |
| 9     | <a href="#">Reported as Unknown</a> |

**Definition:** This element indicates the amount of damage sustained by this vehicle in this crash as indicated in the case material based on an operational damage scale.

**Remarks:** There is a distinction between the cost to repair the damage and the degree to which the damage affects the vehicle's operability (totaled, under/over monetary threshold). Operational damage is recorded here. For example, if the available information indicates that the vehicle was totaled and the vehicle was towed away for any reason, use [6 \(Disabling Damage\)](#). However, if the available information indicates that the vehicle was totaled, but the vehicle was driven away, use [4 \(Functional Damage\)](#).

**0 (No Damage)** is used when there is no damage indicated in the available information for this vehicle.

**2 (Minor Damage)** is damage that does not disable or affect the operation of the motor vehicle. This attribute is used when the case material indicate damage to the vehicle to be Minor or less than Functional and the vehicle is not towed due to damage.

Examples of **2 (Minor Damage)** include: dented or bent fenders, bumpers, grills, body panels, and destroyed hubcaps.

**4 (Functional Damage)** is damage that is not disabling but affects the operation of the motor vehicle or its parts. This attribute is used when the available information specifically indicates the damage is moderate or functional.

Examples of **4 (Functional Damage)** include

- doors, windows, hood and trunk lids that will not operate properly;
- broken glass that obscures vision;
- damage that would prevent the motor vehicle from passing an official motor vehicle inspection;
- tire damage even though the tire may have been changed at the scene;
- bumpers that are loose;

- headlamp or taillight damage that would make night driving hazardous but would not affect daytime driving; and,
- damage to turn signals, horn, or windshield wipers, which makes them inoperative.

**6 (Disabling Damage)** is damage that precludes departure of the motor vehicle from the crash scene in its usual daylight-operating manner after simple repairs. As a result, the motor vehicle would have had to have been towed or carried from the crash scene or assisted by an emergency motor vehicle. This attribute should be used when the available information specifically indicates disabling or severe damage. This attribute is also used when the damage is indicated to be of greater magnitude than Functional (moderate), e.g., major, extensive, totaled and the vehicle was towed from the scene.

**8 (Not Reported)** Check to see if [0 \(No Damage\)](#) or [9 \(Reported as Unknown\)](#) are more appropriate for the situation.

If a State's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "Not Reported."

Code **8 (Not Reported)** in these two situations:

1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

**9 (Reported as Unknown)** is used when the available information specifically indicated the damage severity to be unknown.

**Consistency Checks** [\(See Section 400\)](#):

| <b>Error ID</b> | <b>IF</b>                                         | <b>THEN</b>                               |
|-----------------|---------------------------------------------------|-------------------------------------------|
| 3C1Q            | EXTENT OF DAMAGE equals 0, 2, 4,                  | VEHICLE REMOVAL must equal 3, 5, 8, or 9. |
| 3C2Q            | EXTENT OF DAMAGE equals 8, 9                      | VEHICLE REMOVAL should equal 5, 7, 8, 9.  |
| 3C3P            | EXTENT OF DAMAGE equals 6,                        | VEHICLE REMOVAL must equal 2, 5, 8, or 9. |
| 3CA0            | EXTENT OF DAMAGE for this vehicle equals 0,       | DAMAGED AREAS must equal only 15.         |
| VH82            | EXTENT OF DAMAGE for this vehicle equals 2, 4, 6, | DAMAGED AREAS must not equal 15.          |

**Consistency Check (FARS ONLY) ([See Section 400](#)):**

| <b>Error ID</b> | <b>Error Message</b>                                                                                           |
|-----------------|----------------------------------------------------------------------------------------------------------------|
| U370            | UNLIKELY: EXTENT OF DAMAGE equals 8 if STATE does not equal <b>06</b> , 17, 18, 34, <b>36</b> , 48, 49, or 53. |

**Consistency Checks (CRSS Only) ([See Section 400](#)):**

| <b>Error ID</b> | <b>Error Message</b>                                                                                                           |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------|
| 4U2F            | At least one INJURY SEVERITY should equal 1, 2, 3, 4, 5, or 9, or at least one EXTENT OF DAMAGE should equal 2, 4, 6, 8, or 9. |
| U371            | UNLIKELY: EXTENT OF DAMAGE equals 8 if PSU_STATE does not equal <b>CA</b> , IL, NJ, NY, TX, UT, or WA.                         |

## V36 - Vehicle Removal

**FORMAT:** 1 numeric

**SAS NAME:** Vehicle.TOWED, Parkwork.PTOWED

**ELEMENT VALUES:**

| Codes | Attributes                                                   |
|-------|--------------------------------------------------------------|
| 2     | <a href="#">Towed Due to Disabling Damage</a>                |
| 3     | <a href="#">Towed <b>But</b> Not Due to Disabling Damage</a> |
| 7     | <a href="#">Towed, Unknown Reason</a>                        |
| 5     | <a href="#">Not Towed</a>                                    |
| 8     | <a href="#">Not Reported</a>                                 |
| 9     | <a href="#">Reported as Unknown</a>                          |

**Definition:** This data element describes the mode in which the vehicle left the scene of the crash.

**Remarks:** This data element describes the mode in which the vehicle left the scene of the crash. Towing includes vehicles carried from the scene on a flatbed tow truck.

If the vehicle is a combination vehicle (power unit and at least one trailer), the power unit and/or trailer(s) are considered when determining tow status. If the available information indicates the power unit, or trailer of a combination unit, sustained enough damage to require towing, consider this vehicle as towed due to damage.

**2 (Towed Due to Disabling Damage)** is used for any towing that is due to disabling damage caused by this crash that prohibits vehicle movement under its own power.

If a vehicle was pushed by hand or by another vehicle after the crash because it was not drivable, then use **2 (Towed Due to Disabling Damage)**.

If a vehicle was towed due to disabling damage **AND** for other reasons such as driver arrest, then code this vehicle as **2 (Towed Due to Disabling Damage)**.

**3 (Towed **But** Not Due to Disabling Damage)** is used when the vehicle did not sustain disabling damage, but the vehicle had been removed from the scene of the crash by tow truck or other vehicle for other reasons (e.g., minor damage, functional damage, mired vehicles, driver arrested, injured driver, etc.).

**7 (Towed, Unknown Reason)** is used if the vehicle is towed, but the reason for towing is unknown. For example, a vehicle is reported in the case material as towed, but it cannot be determined whether it was due to disabling damage or for other reasons.

**5 (Not Towed)** is used when it is specifically indicated in the available information that the vehicle was not towed or when the preponderance of the information available indicates that the vehicle was driven away or was not towed.

**NOTE:** The police crash report narrative may be used to supersede and/or clarify the above information.

**8 (Not Reported)** Check to see if [5 \(Not Towed\)](#) or [9 \(Reported as Unknown\)](#) are more appropriate for the situation.

If a State's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported.**"

Code **8 (Not Reported)** in these two situations:

1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

**9 (Reported as Unknown)** is used when the investigating officer indicates it was unknown as to how the vehicle was removed.

**Consistency Checks** [\(See Section 400\)](#):

| <b>Error ID</b> | <b>IF</b>                        | <b>THEN</b>                                     |
|-----------------|----------------------------------|-------------------------------------------------|
| 3C1Q            | EXTENT OF DAMAGE equals 0, 2, 4, | VEHICLE REMOVAL must equal 3, 5, 8, or 9.       |
| 3C2Q            | EXTENT OF DAMAGE equals 8, 9     | VEHICLE REMOVAL should equal 5, 7, 8, 9.        |
| 3C3P            | EXTENT OF DAMAGE equals 6,       | VEHICLE REMOVAL must equal 2, 5, 8, or 9.       |
| <b>V881</b>     | <b>HIT AND RUN equals 1,</b>     | <b>VEHICLE REMOVAL should not equal 8 or 9.</b> |

**Consistency Checks (FARS Only)** [\(See Section 400\)](#):

| <b>Error ID</b> | <b>Error Message</b>                                               |
|-----------------|--------------------------------------------------------------------|
| U430            | UNLIKELY: VEHICLE REMOVAL equals 8 unless STATE equals <b>TX</b> . |

**Consistency Checks (CRSS Only)** [\(See Section 400\)](#):

| <b>Error ID</b> | <b>Error Message</b>                                                      |
|-----------------|---------------------------------------------------------------------------|
| U435            | UNLIKELY: VEHICLE REMOVAL equals 8 unless <b>STATE</b> equals <b>TX</b> . |

## V37 - Sequence of Events

**FORMAT:** Read Only

**SAS NAME:** Cevent.SOE, Vevent.SOE

**ELEMENT VALUES:**

### Non-Harmful Events:

| Codes | Attributes                                                          |
|-------|---------------------------------------------------------------------|
| 61    | <a href="#">Equipment Failure (blown tire, brake failure, etc.)</a> |
| 62    | <a href="#">Separation of Units</a>                                 |
| 63    | <a href="#">Ran Off Roadway-Right</a>                               |
| 64    | <a href="#">Ran Off Roadway-Left</a>                                |
| 79    | <a href="#">Ran off Roadway - Direction Unknown</a>                 |
| 71    | <a href="#">End Departure</a>                                       |
| 65    | <a href="#">Cross Median</a>                                        |
| 68    | <a href="#">Cross Centerline</a>                                    |
| 66    | <a href="#">Downhill Runaway</a>                                    |
| 67    | <a href="#">Vehicle Went Airborne</a>                               |
| 69    | <a href="#">Re-entering Roadway</a>                                 |
| 70    | <a href="#">Non-harmful, Swaying Trailer/Jackknife</a>              |
| 60    | <a href="#">Cargo/Equipment Loss or Shift (non-harmful)</a>         |

### Non-Collision Harmful Events:

| Codes | Attributes                                                                   |
|-------|------------------------------------------------------------------------------|
| 01    | <a href="#">Rollover/Overtake</a>                                            |
| 02    | <a href="#">Fire/Explosion</a>                                               |
| 03    | <a href="#">Immersion or Partial Immersion</a>                               |
| 04    | <a href="#">Gas Inhalation</a>                                               |
| 51    | <a href="#">Jackknife (harmful to this vehicle)</a>                          |
| 06    | <a href="#">Injured in Vehicle (Non-Collision)</a>                           |
| 44    | <a href="#">Pavement Surface Irregularity (Ruts, Potholes, Grates, etc.)</a> |
| 07    | <a href="#">Other Non-Collision</a>                                          |
| 72    | <a href="#">Cargo/Equipment Loss, Shift, or Damage (harmful)</a>             |
| 16    | <a href="#">Thrown or Falling Object</a>                                     |
| 05    | <a href="#">Fell/Jumped from Vehicle</a>                                     |

### Collision With Motor Vehicle In-Transport:

| <b>Codes</b> | <b>Attributes</b>                                                                                                                                      |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12           | <a href="#">Motor Vehicle In-Transport</a>                                                                                                             |
| 54           | <a href="#">Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons, or Objects Set in Motion from/by Another Motor Vehicle In-Transport</a> |
| 55           | <a href="#">Motor Vehicle in Motion Outside the Trafficway</a>                                                                                         |

### Collision With Object Not Fixed:

| <b>Codes</b> | <b>Attributes</b>                                                      |
|--------------|------------------------------------------------------------------------|
| 08           | <a href="#">Pedestrian</a>                                             |
| 09           | <a href="#">Pedalcyclist</a>                                           |
| 10           | <a href="#">Railway Vehicle</a>                                        |
| 74           | <a href="#">Road Vehicle on Rails</a>                                  |
| 11           | <a href="#">Live Animal</a>                                            |
| 49           | <a href="#">Ridden Animal or Animal-Drawn Conveyance</a>               |
| 18           | <a href="#">Other Object (Not Fixed)</a>                               |
| 15           | <a href="#">Non-Motorist on Personal Conveyance</a>                    |
| 14           | <a href="#">Parked Motor Vehicle</a>                                   |
| 45           | <a href="#">Working Motor Vehicle</a>                                  |
| 73           | <a href="#">Object That Had Fallen from Motor Vehicle In-Transport</a> |
| 91           | <a href="#">Unknown Object Not Fixed</a>                               |

### Collision With Fixed Object:

| <b>Codes</b> | <b>Attributes</b>                               |
|--------------|-------------------------------------------------|
| 17           | <a href="#">Boulder</a>                         |
| 19           | <a href="#">Building</a>                        |
| 58           | <a href="#">Ground</a>                          |
| 20           | <a href="#">Impact Attenuator/Crash Cushion</a> |
| 50           | <a href="#">Bridge Overhead Structure</a>       |
| 21           | <a href="#">Bridge Pier or Support</a>          |
| 23           | <a href="#">Bridge Rail (Includes Parapet)</a>  |
| 24           | <a href="#">Guardrail Face</a>                  |
| 52           | <a href="#">Guardrail End</a>                   |



| Codes | Attributes                                                |
|-------|-----------------------------------------------------------|
| 25    | <a href="#">Concrete Traffic Barrier</a>                  |
| 57    | <a href="#">Cable Barrier</a>                             |
| 26    | <a href="#">Other Traffic Barrier</a>                     |
| 59    | <a href="#">Traffic Sign Support</a>                      |
| 46    | <a href="#">Traffic Signal Support</a>                    |
| 30    | <a href="#">Utility Pole/Light Support</a>                |
| 31    | <a href="#">Other Post, Other Pole, or Other Supports</a> |
| 32    | <a href="#">Culvert</a>                                   |
| 33    | <a href="#">Curb</a>                                      |
| 34    | <a href="#">Ditch</a>                                     |
| 35    | <a href="#">Embankment</a>                                |
| 38    | <a href="#">Fence</a>                                     |
| 39    | <a href="#">Wall</a>                                      |
| 40    | <a href="#">Fire Hydrant</a>                              |
| 41    | <a href="#">Shrubbery</a>                                 |
| 42    | <a href="#">Tree (Standing Only)</a>                      |
| 48    | <a href="#">Snow Bank</a>                                 |
| 53    | <a href="#">Mailbox</a>                                   |
| 43    | <a href="#">Other Fixed Object</a>                        |
| 93    | <a href="#">Unknown Fixed Object</a>                      |

### **[Not Reported/Unknown](#)**

| Code | Attribute                                           |
|------|-----------------------------------------------------|
| 98   | <a href="#">Harmful Event, Details Not Reported</a> |
| 99   | <a href="#">Reported as Unknown</a>                 |

**Definition:** The events in sequence related to this motor vehicle, regardless of injury and/or property damage. Code each event for this vehicle in the order in which they occur, time wise, from police crash report narrative and diagram.

**Remarks:** This data element is derived from the [CRASH EVENTS](#) Table. Recording of CRASH EVENTS ends at the last harmful event of the entire crash. Therefore, a non-harmful event (e.g., Crossing the Centerline) that occurs following the last harmful event of the crash will not be included. Prior to selecting an unknown value, the case material should be thoroughly evaluated to identify if a specific attribute can be applied.

Correction to the SEQUENCE OF EVENTS order must be made by revision to the [CRASH EVENTS](#) Table.

### ***Non-Harmful Events:***

**61 (Equipment Failure)** (blown tire, brake, etc.) Examples of equipment failure include blown tires, brake failures, etc. This attribute should not be used to describe damage resulting from a collision event.

**62 (Separation of Units)** is used when a trailing unit separates from its power unit or another trailing unit(s). This applies to truck tractors with trailer(s), single-unit trucks with a trailer, and other vehicles pulling a trailer (e.g., car pulling a boat or motor home).

**63 (Ran Off Roadway-Right)** is used if any part of the vehicle runs off the right side of the roadway. Identification of running off roadway can be determined from the case material. This attribute can be used anytime in the event sequence before or after any harmful events. This attribute does not apply to the “load” in cases involving AREAS OF IMPACT [18 \(Cargo/Vehicle Parts Set in Motion\)](#) or [19 \(Other Objects or Person Set in Motion\)](#).

**64 (Ran Off Roadway-Left)** is used if any part of the vehicle runs off the left side of the roadway. Identification of running off roadway can be determined from the case material. This attribute can be used anytime in the event sequence before or after any harmful events. This attribute does not apply to the “load” in cases involving Areas of Impact [18 \(Cargo/Vehicle Parts Set in Motion\)](#) or [19 \(Other Objects or Person Set in Motion\)](#).

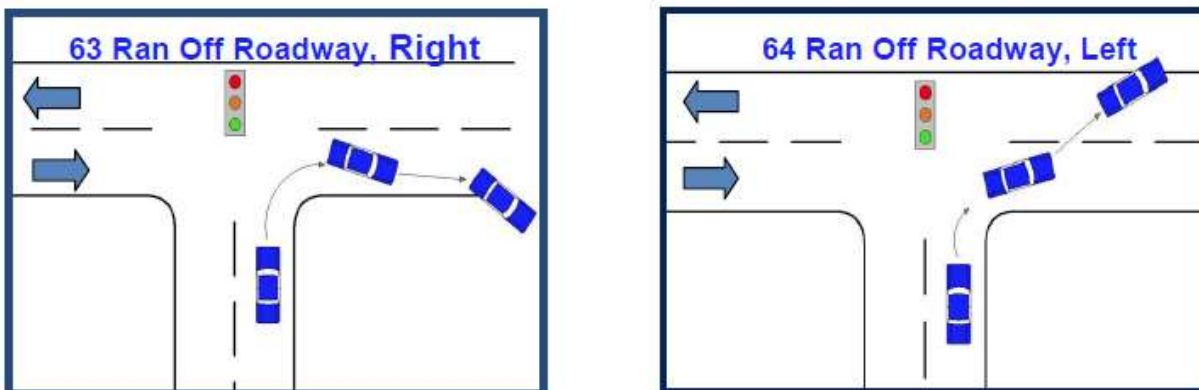


*Figure 18: Ran Off Roadway Examples*

**79 (Ran off Roadway-Direction Unknown)** is used when any part of the vehicle ran off the roadway, but it cannot be determined from the case material whether right or left. See clarification on the use of information provided by witnesses in section [103. Data Sources](#).

### **Coding Guidelines for Running Off Roadway (Right or Left)**

#### **For Divided Highways:**

On a divided highway, a vehicle can run off the roadway by leaving the roadway and entering the median. When this occurs involving a vehicle on the correct side of a divided highway, the proper “Ran Off Roadway” attribute is always [64 \(Ran Off Roadway - Left\)](#). In situations where a vehicle departs the roadway into the median, traverses the median, and continues across the opposing roadway, code [64 \(Ran Off Roadway - Left\)](#) followed by [65 \(Cross Median\)](#).

**For vehicles turning at “T-intersections”:**

For “T-intersections” when the vehicle loses control when in a turn, choose right or left based upon the direction of travel for the vehicle’s proper travel lane for their intended travel path. For vehicles traveling straight through “T-Intersections” use **71 (End Departure)**. See [Figure 19](#) below.

**71 (End Departure)** is used if the vehicle leaves the roadway by traveling straight through the top of a “T-intersection” of a two-way trafficway or top of an intersecting one-way roadway. This code should also apply to vehicles traveling off the end of dead-end roadways or into the barrier of a closed trafficway. See [Figure 19](#) below.

**71 – End Departure**

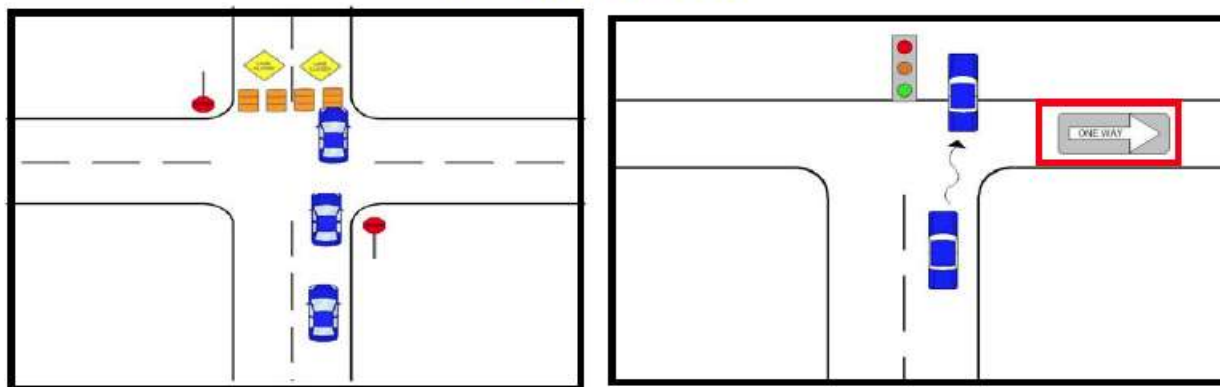


*Figure 19: End Departure Examples*

**65 (Cross Median)** is used when a vehicle departs its roadway, traverses the median, and enters the shoulder or travel lanes on the opposite side of a divided highway. This attribute does not apply to the “load” in cases involving AREAS OF IMPACT [18 \(Cargo/Vehicle Parts Set in Motion\)](#) or [19 \(Other Objects or Person Set in Motion\)](#).

**68 (Cross Centerline)** is used when a vehicle crosses over the centerline of a two-way, undivided highway. The centerline must be delineated with paint or raised markers. This is also used for unstabilized situations involving vehicles that depart from their initial travel lane(s) and enter the continuous left-turn lane, having a harmful event that is located within the marked boundaries of the continuous left-turn lane. This attribute also applies to vehicles that traverse the continuous left-turn lane area, having a harmful event that is located in the opposing travel lane(s). This attribute does not apply to the “load” in cases involving AREAS OF IMPACT [18 \(Cargo/Vehicle Parts Set in Motion\)](#) or [19 \(Other Objects or Person Set in Motion\)](#).

**66 (Downhill Runaway)** refers to any vehicle that cannot decelerate on a downhill grade. This does not apply to a vehicle that cannot slow down due to lack of surface friction (due to ice, snow, etc.).

**67 (Vehicle Went Airborne)** must only be used if the officer indicates by narrative or diagram that the vehicle left the ground (excludes vehicles leaving the ground during a rollover event). Examples: the vehicle drove off a cliff, the vehicle was launched into the air after striking another vehicle or after traversing a berm.

**69 (Re-entering Roadway)** is used when a vehicle that departed the roadway portion of the trafficway returns to **the same roadway** (e.g., a motor vehicle in-transport runs off the roadway

right, strikes the guardrail face, then re-enters the roadway and collides with another motor vehicle in transport). This attribute does not apply to the “load” in cases involving AREAS OF IMPACT [18 \(Cargo/Vehicle Parts Set in Motion\)](#) or [19 \(Other Objects or Person Set in Motion\)](#).

**70 (Non-harmful, Swaying Trailer/Jackknife)** applies to a condition that occurs to an articulated vehicle (any vehicle with a trailing unit(s) connected by a hitch; truck tractor or single-unit truck with one or more trailers, articulated bus, or a car pulling a boat on a trailer, etc.) while in motion. The condition reflects a loss of control of the vehicle by the driver in which the trailer(s) yaws from its normal straight-line path behind the power unit.

**60 (Cargo/Equipment Loss or Shift [non-harmful])** refers specifically to the loss or shift of items carried on or in a motor vehicle or its trailing unit, that does not cause damage and/or injury to the vehicle, its occupants, its parts, trailing unit, or the cargo itself. Codes **60** and [54](#) can be used sequentially. For example, Vehicle 1’s cargo falls off and strikes Vehicle 2. Code **60** is used to show the non-harmful cargo shift that led up to the set in motion collision event of code [54](#).

However, this attribute should never be used:

1. to refer to a “collision” event (see [54 \(Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons, or Objects Set in Motion from/by Another Motor Vehicle In-Transport\)](#)). In other words, code 60 should not be used instead of code 54.
2. to refer to a harmful event related to the loss or shift of cargo in/on a vehicle causing damage to that vehicle, its cargo, or injury to its occupants (see [72 \(Cargo/Equipment Loss, Shift, or Damage \[harmful\]\)](#)).

**Examples:**

- A load of logs on a truck tractor semi-trailer shifts as the truck rounds a curve resulting in an overturn. The shift of the load of logs would be a **60 (Cargo/Equipment Loss or Shift [non-harmful])**.
- A spare tire falls from a vehicle. The loss of the spare tire would be a **60 (Cargo/Equipment Loss or Shift [non-harmful])**.
- An axle on a vehicle breaks and the wheel then separates from the vehicle would be a [\(61 \(Equipment Failure\)\)](#).

**Non-Collision events involving motorcycles and vehicles with a “load”:**

Non-Collision events may occur before or after a collision event. They should not be coded as a separate event if they occur as part of a collision event.

**Examples:**

- A motorcycle strikes a deer, overturns and the rider becomes separated from the vehicle. Code the collision event, not the non-collision “[Rollover/Overturn](#)” and “[Fell/Jumped from Vehicle](#)” that occur as part of the collision event.
- One truck tractor/trailer rear-ends another truck tractor/trailer. The impact pushes the lead vehicle’s load into the back of the truck tractor cab with part falling onto the

roadway. Code the collision event, not the non-collision “[cargo-loss or shift](#)” that occurred as part of the collision event.

### **Non-Collision Harmful Events:**

**01 (Rollover/Overturn)** is used when a motor vehicle rotates (rollover) at least one quarter turn onto its side or end.

#### **NOTES regarding 01 (Rollover/Overturn):**

- For motorcycles, laying the motorcycle down on its side is sufficient to use attribute **01 (Rollover/Overturn)** as a harmful event if damage or injury is produced, even though the data element [ROLLOVER](#) is not applicable to motorcycles.
- Every vehicle that overturns will have contact with the ground. The collision event [58 \(Ground\)](#) should not be used in describing a non-collision **01 (Rollover/Overturn)** event. For example: A vehicle’s tires furrow into soft soil causing the vehicle to roll. The harmful event is **01 (Rollover/Overturn)**. If the report identifies the vehicle “struck” the ground, and that harmful collision event caused the vehicle to roll, the events are [58 \(Ground\)](#), **01 (Overturn/Rollover)**. Note this will give you a Level 2 edit check. If overriding the edit check, be specific in your override remarks.
- The only instances [67 \(Airborne\)](#) should be used immediately prior or immediately after **01 (Rollover/Overturn)** is if the officer identifies “airborne” as defined in this element. Note this will give you a Level 2 edit check. If overriding the edit check, be specific in your override remarks.
- A vehicle rolls over 3 quarter turns. This is one rollover event involving 3 quarter turns.
- If there is a **01 (Rollover/Overturn)** that begins in another location but involves a ditch or embankment in the case (e.g., “rolled through the ditch,” “rolled down the embankment,” “came to rest against the embankment”), then the rule applies where if there is no damage associated with an impact with the fixed object during the rollover, it is not included in the CRASH EVENTS. If there is indication that damage resulted from an impact with the fixed object, it is included in the CRASH EVENTS. This follows the same logic as striking a tree or another vehicle during an overturn.
- For a vehicle that rolls over, impacts a fence, and continues to rollover: only two events would be coded for that circumstance. The first event would be the rollover followed by an impact with the fence. For more than one rollover event to appear in a vehicle’s SEQUENCE OF EVENTS, the vehicle must return to its wheels, and track for a period of time before experiencing a separate rollover event. This would be a rare occurrence and must be clearly identified in the case material.

**Note:** For *vehicles* with attached *trailing unit(s)* by fixed *or non-fixed* linkage, when either the power unit or the *trailing unit(s)* rolls over, the entire vehicle will be considered a rollover. *This applies to all motor vehicles with any type of trailing unit(s). If a motorcycle is pulling a trailing unit that overturns, the motorcycle should have 01 (Rollover/Overturn) in its Crash Events. However, since the power unit is a motorcycle, the element [ROLLOVER](#) still does NOT apply.*

**02 (Fire/Explosion)** is used for a vehicle fire or explosion that occurs during the crash sequence or as a result of the crash.

As it pertains to the occurrence of **02 (Fire/Explosion)**, the crash circumstances are not considered stabilized until the threat of damage to this vehicle, or injury consequences to this vehicle's occupants, has ceased. Therefore, the crash sequence is not considered stabilized until all occupants have exited the vehicle and the scene has been declared safe by police or other authority. Fires that occur at a later time to vehicles abandoned at the scene (in open fields, on hillsides, etc.), or to vehicles removed from the scene to another location (tow yard, curbside, etc.), are not considered part of the crash sequence.

**03 (Immersion or Partial Immersion)** is used when an in-transport motor vehicle enters a body of water and results in injury or damage. This code would also be used if the vehicle came to rest in water and the depth cannot be ascertained from case material. **NOTE:** In immersion fatalities, the injury to the person may be noted as "drowning."

**04 (Gas Inhalation)** includes injury or death as a result of toxic fumes, such as carbon monoxide fumes leaking from a motor vehicle in-transport.

**51 (Jackknife [harmful to this vehicle])** applies to a condition that occurs to an articulated vehicle (any vehicle with a trailing unit(s) connected by a hitch; truck tractor or single-unit truck with one or more trailers, articulated bus, car pulling a boat on a trailer, etc.) while in motion. The condition reflects a loss of control of the vehicle by the driver in which the trailer(s) yaws from its normal straight-line path behind the power unit, striking the power unit, causing damage to the power unit or trailer. Jackknife should only be coded as a harmful event if there is clear indication of damage to the jackknifed vehicle or injury to its occupants caused by the jackknife.

**06 (Injured in Vehicle [Non-Collision])** is used when an occupant is injured during an unstabilized situation without a collision, excluding cargo/equipment loss or shift. Examples: Driver slams on brake, causing an unrestrained passenger to be injured. Driver makes a sharp turn causing driver to strike head on side window, knocking driver unconscious.

**44 (Pavement Surface Irregularity [ruts, potholes, grates, etc.])** is used when the pavement surface irregularity is on a paved surface. Other examples include indication of contact with a dip, depression, low spot, trough, etc. If the impact is with a surface irregularity (e.g., ruts, potholes) not on a paved surface, use **58 (Ground)**. For a vehicle that "bottoms out" on the paved surface (causing damage) due to speed, but not because of a pavement surface irregularity, use attribute **07 (Other Non-Collision)**.

**07 (Other Non-Collision)**. Non-collision not captured in the listed non-collision attributes.

**Examples:**

- Damage to the vehicle produced by its own dislodged vehicle parts (including hood flying up and contacting the windshield).
- A vehicle "bottoms out" (causing damage) due to speed but not because of a pavement surface irregularity. Damage due to pavement surface irregularities should be coded **44 (Pavement Surface Irregularity [ruts, potholes, grates, etc.])**.

**16 (Thrown or Falling Object)** is used when any object (1) is thrown (intentionally or unintentionally) and impacts an in-transport vehicle, or (2) falls onto, into, or in the path of an in-transport motor vehicle. If a tree limb falls from a tree and is contacted by a car, enter **16**

**(Thrown or Falling Object).** If a person maliciously throws an object off an overpass into traffic below, enter **16 (Thrown or Falling Object)**. This excludes contacts made by loads or objects set in motion by a motor vehicle (see [54 \(Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons, or Objects Set in Motion from/by Another Motor Vehicle In-Transport\)](#)).

**72 (Cargo/Equipment Loss, Shift, or Damage [harmful])** refers specifically to the loss or shift of items carried on or in a motor vehicle or its trailing unit, causing damage and/or injury to the vehicle, its occupants, its parts, trailing unit, or the cargo itself. Harm can be measured in loss of monetary value from unrecoverable cargo loss as well as physical damage. This attribute should never be used to refer to a “collision” event (see [54 \(Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons, or Objects Set in Motion from/by Another Motor Vehicle In-Transport\)](#)).

**Examples:**

- A pickup truck brakes rapidly to avoid a collision. This causes a piece of lumber in the pickup bed to smash through the rear window.
- Unsecured cargo shifts inside a box truck and bursts through the wall of the trailer.
- Pallets of beehives on a flatbed truck fall off the truck on a sharp curve causing the hives to open and the bees to fly away.

**Notes:**

In situations when a cargo shift is part of a collision event, the cargo shift is not coded separately. See [Non-Collision events involving motorcycles and vehicles with a “load.”](#)

- Unsecured cargo shifts inside a box truck causing a loss of control. The driver overcorrects, driving off the road. This would be a [60 \(Cargo/Equipment Loss or Shift \[non-harmful\]\)](#).
- Use [07 \(Other Non-Collision\)](#) in a situation where a motor vehicle in-transport is towing another unit (motor vehicle, trailer, etc.) and the second unit collides into the back of the power unit (not a Jackknife or part of a collision event).

**05 (Fell/Jumped from Vehicle)** is used when an occupant of this vehicle falls or jumps (not suicide) from the vehicle causing injury. For example, an occupant of a motor vehicle in-transport leans against the car door, it opens and the occupant falls out; or a person riding on a vehicle’s exterior (hood, roof, running board, etc.) falls or jumps, and is injured by the fall. If an occupant falls or jumps from a vehicle and is struck by that vehicle, use this attribute.



### ***Collision With Motor Vehicle In-Transport:***

**12 (Motor Vehicle In-Transport)** is used when the injury- or damage-producing event is two motor vehicles in-transport making contact within the trafficway boundaries. In-transport means that the motor vehicle is in motion or on the roadway portion of a trafficway.

**54 (Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons, or Objects Set in Motion from/by Another Motor Vehicle In-Transport)** is used when the injury- or damage-producing event is two motor vehicles in-transport making contact by something set in motion by one or both of the vehicles.

In crashes involving harmful events caused by objects set in motion by a motor vehicle in-transport, remember that a vehicle's load is considered to be part of the vehicle.

#### **Examples:**

- If cargo falls from a truck (in-transport) and strikes another motor vehicle **in-transport**, this is treated as a two-vehicle crash. Therefore, the proper code for both vehicles is **54 (Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons, or Objects Set in Motion from/by Another Motor Vehicle In-Transport)** and the AREA OF IMPACT (THIS VEHICLE) column is coded [18 \(Cargo/Vehicle Parts Set in Motion\)](#).
- If an **in-transport** vehicle strikes an at-rest object that was previously cargo or part of another motor vehicle in-transport, the SEQUENCE OF EVENTS for that event is [73 \(Object That Had Fallen from Motor Vehicle In-Transport\)](#). If that object is then propelled into another motor vehicle in-transport, the proper SEQUENCE OF EVENTS attribute for this next event is **54 (Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons, or Objects Set in Motion from/by Another Motor Vehicle In-Transport)** and the AREA OF IMPACT (THIS VEHICLE) column is coded [19 \(Other Objects or Person Set in Motion\)](#).
- If an **in-transport** vehicle strikes an at-rest object that was not cargo or part of another motor vehicle in-transport, the SEQUENCE OF EVENTS for that event is [18 \(Other Object \[Not Fixed\]\)](#). If that object is then propelled into another motor vehicle in-transport, the proper SEQUENCE OF EVENTS code for this next event is **54 (Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons, or Objects Set in Motion from/by Another Motor Vehicle In-Transport)** and the AREA OF IMPACT (THIS VEHICLE) column is coded [19 \(Other Objects or Person Set in Motion\)](#).

This attribute does not apply when the cargo, people, or objects set in motion by an in-transport motor vehicle strikes something other than another in-transport motor vehicle. In this case, use the applicable "[collision with non-fixed object](#)," or "[collision with fixed object](#)" code for the object struck by the cargo, person, or object set in motion.



### Examples:

- If cargo falls from a truck (in-transport) and strikes another vehicle that is not in-transport, the proper SEQUENCE OF EVENTS attribute is **14 (Parked Motor Vehicle)** or **45 (Working Motor Vehicle)** depending on which type of not in-transport vehicle was contacted by the load and the AREA OF IMPACT (THIS VEHICLE) column is coded **18 (Cargo/Vehicle Parts Set in Motion)**.
- If cargo falls from a truck (in-transport) and strikes a pedestrian, the proper SEQUENCE OF EVENTS attribute would be **08 (Pedestrian)** and the AREA OF IMPACT (THIS VEHICLE) column is coded **18 (Cargo/Vehicle Parts Set in Motion)**.
- If a pedestrian is struck by an at-rest object propelled by an in-transport vehicle (parked motor vehicle, stop sign, etc.), the proper SEQUENCE OF EVENTS attribute for this harmful event is **08 (Pedestrian)** and the AREA OF IMPACT (THIS VEHICLE) column is coded **19 (Other Objects or Person Set in Motion)**.

**55 (Motor Vehicle in Motion Outside the Trafficway)** is used when the injury- or damage-producing event is two motor vehicles in-transport making contact outside the trafficway boundaries in a motor vehicle traffic crash.

### Example:

A vehicle loses control attempting to turn into a gas station and strikes another vehicle pulling away from the pump in the station lot.

### ***Collision With Object Not Fixed:***

**08 (Pedestrian)** is used for all those not on a personal conveyance. A person pushing a vehicle should be coded **08 (Pedestrian)**. A person being carried by another person should also be considered a **08 (Pedestrian)**.

**09 (Pedalcyclist)** is used for any person on a non-motorized other road vehicle propelled by pedaling. Examples include a bicycle, tricycle, unicycle, or pedal car.

If a non-motorist is hit as a result of a vehicle to vehicle collision and you cannot reasonably determine which vehicle struck the non-motorist, use the lowest vehicle number of the MVIT(s) involved in the vehicle to vehicle event that resulted in the pedestrian or pedalcyclist collision. In the element **RELATED FACTORS - PERSON (NOT A MOTOR VEHICLE OCCUPANT) LEVEL**, code **031 Default Code Used for Vehicle Numbering**.

**10 (Railway Vehicle)** is any land vehicle that is (1) designed primarily for, or in use for, moving people or property from one place to another on rails and (2) not in use on a land way other than a railway.

- Inclusions: Railway Trains, Streetcar/trolley on private way.
- Exclusions: Streetcar/trolley operating on trafficway.

**74 (Road Vehicle on Rails)** is any land vehicle on rails operating in a trafficway.

- Inclusions: Streetcar/trolley operating on trafficway.
- Exclusions: Railway Trains, Streetcar/trolley on private way, Streetcar/trolley or electric bus operating on tires.

**11 (Live Animal)** is used for collisions with live animals (domesticated or wild) that are not themselves being used as transportation or to draw a wagon, cart, or other transport device (see [ANSI D16.1](#)). Default to **11 (Live Animal)** if it cannot be determined if the struck animal is alive, dead, or if it was being ridden or drawing a transport device.

**49 (Ridden Animal or Animal-Drawn Conveyance)** is used for ridden animals and animals drawing transport devices. See **18 (Other Object [Not Fixed])** for an animal carcass.

**18 (Other Object [Not Fixed])** is used when a motor vehicle in-transport strikes a non-fixed object that is known NOT to have been the cargo or part of another motor vehicle in-transport, or when it is UNKNOWN whether the object was the cargo or part of another motor vehicle in-transport (i.e., refers to objects such as a dead body, animal carcass, construction cones or barrels, an unattached trailer, a bicycle without a rider, downed tree limbs or power lines, or debris from a prior crash). For objects that have become separated from a motor vehicle in-transport not as a result of a prior crash, use attribute [73 \(Object That Had Fallen from Motor Vehicle In-Transport\)](#).

**15 (Non-Motorist on Personal Conveyance)** is used for pedestrians using personal conveyances. A personal conveyance is a device, other than a transport device, used by a pedestrian for personal mobility assistance or recreation. These devices can be motorized or human powered, but not propelled by pedaling.

**Inclusions:**

1. Rideable toys
  - a. Roller skates, in-line skates
  - b. Skateboards
  - c. Skates
  - d. Baby carriage
  - e. Scooters
  - f. Toy wagons
2. Motorized rideable toys
  - a. Motorized skateboard
  - b. Motorized toy car
  - c. *Motorized kick scooter*

3. Devices for personal mobility assistance
  - a. ***Self-balancing personal conveyance (e.g., Segway-style device)***
  - b. Motorized and non-motorized wheelchair
  - c. ***Mobility aid*** scooters

**Exclusions:**

1. Golf cart
2. Low-speed vehicles (LSVs)
3. Go-carts
4. Minibike
5. “Pocket” motorcycles
6. Motor scooters
7. Moped

**14 (Parked Motor Vehicle)** is used when the impact occurred between a motor vehicle in-transport and a motor vehicle neither on a roadway nor in motion. A vehicle stopped off the roadway, its door open over a roadway, is not in-transport.

**45 (Working Motor Vehicle)** is used to indicate the motor vehicle contacted was in the act of performing construction, maintenance, or utility work related to the trafficway when it became an involved unit. The vehicle should be known to be in the act of performing work. This “work” may be located within open or closed portions of the trafficway and motor vehicles performing these activities can be within or outside the trafficway boundaries. This code does not include private construction/maintenance vehicles, or vehicles such as garbage trucks, delivery trucks, taxis, emergency vehicles, tow trucks, etc. **DO NOT evaluate this attribute on NCSA Body Type alone.**

**Examples:**

1. Asphalt/steam roller working in a highway construction zone paving the roadway or flattening dirt.
2. State highway maintenance crew painting lane lines on the road, mowing grass on the roadside or median, repairing potholes, removing debris from the roadway, etc.
3. Utility truck or a “cherry picker,” performing maintenance on power lines along the roadway or maintaining a traffic signal.
4. A private excavating company contracted by the State digging the foundation for a new overpass.
5. A State, county, or privately-owned snowplow, plowing ice/snow as part of a highway maintenance activity.
6. Street sweeper sweeping the street.

7. A vehicle in a mobile work convoy displaying arrow boards or other signaling devices warning motorists of the work activity.
8. A law enforcement vehicle that is participating strictly in a stationary construction or mobile maintenance activity as a traffic slowing, control, signaling, or calming influence.

#### **FARS SPECIAL INSTRUCTION:**

**NOTE:** Code “45” excludes working activities other than highway construction, maintenance, or utility vehicles (garbage truck picking up trash, mail/delivery trucks while making deliveries, personal vehicles plowing snow, etc. These are considered motor vehicles In-transport). Use RELATED FACTORS-VEHICLE LEVEL code [042 \(Other Working Vehicle \[Not Construction, Maintenance, Utility, Police, Fire, or EMS Vehicle\]\)](#) to identify these vehicles.

A question may arise when a police, fire, or emergency medical vehicle is struck on the roadway while at the scene of a crash, at a traffic stop, or as traffic control. The question becomes, “has its function changed from being a motor vehicle in-transport to a working vehicle?” The answer is “no.” Treat these situations as a motor vehicle in-transport striking another motor vehicle in-transport. Use RELATED FACTORS-VEHICLE LEVEL code [041 \(Police, Fire, or EMS Vehicle Working at the Scene of an Emergency or Performing Other Traffic Control Activities\)](#) to identify that this vehicle was struck while performing these work activities.

**73 (Object That Had Fallen from Motor Vehicle In-Transport)** is used when a motor vehicle in- transport impacts a non-fixed object at rest that is known to have been the cargo or part of another motor vehicle in-transport. Do not use this attribute for debris from a prior crash. This attribute does not include vehicle occupants that are ejected or fall from a motor vehicle in-transport (e.g., a motorcycle operator falling from a motorcycle.) For people falling from a motor vehicle, see non-collision event [05 \(Fell/Jumped From Vehicle\)](#). For impacts involving two motor vehicles in-transport resulting from cargo, people, or objects set in motion, see [54 \(Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons, or Objects Set in Motion from/by another Motor Vehicle In-Transport\)](#). For at rest detached trailers (e.g., a detached semi-trailer), use attribute [18 \(Other Object \[Not Fixed\]\)](#). If cargo fell from a vehicle, came to rest, and was struck, this attribute would apply. If the cargo was at rest as a result of a prior crash, use attribute [18 \(Other Object \[Not Fixed\]\)](#).

**91 (Unknown Object Not Fixed)** is used when the event involves an object that is known to be not fixed but the case material does not identify the specific object.

#### ***Collision With Fixed Object:***

The attributes [58 \(Ground\)](#), [33 \(Curb\)](#), [34 \(Ditch\)](#), and [35 \(Embankment\)](#) are grouped under the Collision With Fixed Object subset because they are intended to be harmful events in the crash (i.e., they are associated with an impact that produces injury or damage).

When coding these events there must be fields on the police crash report or verbiage in the narrative such as “struck,” “hit,” “impacted,” etc. that identify these as harmful.

For cases where the indication of the harmful event came from the narrative, there may not be a corresponding indication of damage in any police crash report field. In these instances, code the

harmful event as stated in the narrative and include the corresponding attribute under [AREAS OF IMPACT](#).

If there is no indication of damage from contact with the fixed object in fields on the police crash report and the narrative language does not identify it as a harmful event (e.g., “came to rest on the embankment,” “drove through” or “drove across” the ditch and/or the embankment, or “drove over” the curb), do not code [33 \(Curb\)](#), [34 \(Ditch\)](#), or [35 \(Embankment\)](#) in the SEQUENCE OF EVENTS.

**17 (Boulder)** is a rock of sufficient mass that when struck by a motor vehicle moves very little and remains basically intact.

**19 (Building)** is used when the vehicle impacts a roofed and walled structure built for permanent use. The type of construction material used is not of interest, nor is the use of the building.

**58 (Ground)** is used when the impact is with an earthen or paved surface off the roadway. **58 (Ground)** is not to be entered when the harmful event is [01 \(Rollover/Overturn\)](#).

Indication of furrowing, gouging, or digging in of the tires/wheels is not sufficient to code the collision event **58 (Ground)**. For example, if the police crash report narrative states “the truck’s tires dug into the turf causing the vehicle to rollover,” the harmful event should be [01 \(Rollover/Overturn\)](#).

**20 (Impact Attenuator/Crash Cushion)** is a device for controlling the absorption of energy released during vehicle collision (crash cushion). Its most common application involves the protection of fixed roadside objects such as bridge piers, elevated gores at exit ramps, etc. Examples include barrels filled with water or sand, and plastic collapsible structures.

**50 (Bridge Overhead Structure)** is used when striking the bottom of a bridge while traveling underneath it. See [Figure 20](#).

**21 (Bridge Pier or Support)** is a square or round column of stone, concrete, brick, steel, or wood for supporting a bridge between abutments. This attribute includes the bridge abutments that are supporting the ends of a bridge. Abutments are generally designed for retaining or supporting the embankment under bridge ends and composed of stone, concrete, brick, or wood (includes the wing-walls). See [Figure 20](#).

**23 (Bridge Rail [Includes Parapet])** is a wooden, brick, stone, concrete, or metal fence-like structure that runs along the outermost edge of the roadway or sidewalk on the bridge, or a rail constructed along the top of a parapet. Balustrade is often used synonymously with parapet. See [Figure 20](#).

- Bridges do not need to support another roadway. It may be an overpass for a train or even for a viaduct (water conduit).

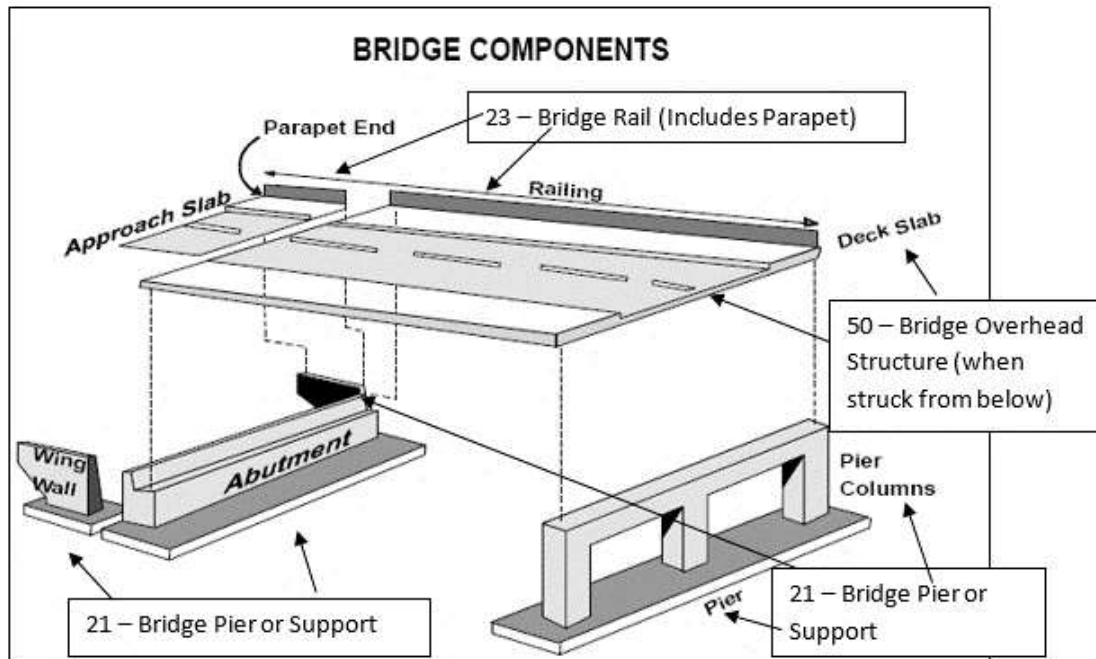


Figure 20: Bridge Components Diagram

**24 (Guardrail Face)** is a low barrier that has the primary longitudinal structure composed of metal (plates, mesh, box beam, etc.). A guardrail is differentiated from **25 (Concrete Traffic Barrier)** by the material making up the greatest part of the longitudinal portion of the structure. In the case of guardrails, this is metal whereas in concrete barriers this is concrete (including concrete rails). If the crash report does not differentiate between guardrail face and end, default to guardrail face.

Guardrails that serve as bridge rails should be coded as **23 (Bridge Rail [Includes Parapet])**.

**52 (Guardrail End)** is coded if a vehicle strikes the end of a guardrail. Guardrails can have a separate flat or rounded piece of metal attached to the end of an expanse of guardrail face.

**25 (Concrete Traffic Barrier)** refers to the longitudinal traffic barriers constructed of concrete. This includes all temporary concrete barriers regardless of location (i.e., temporary Jersey Barrier on a bridge being used to control traffic during bridge repair/construction). Concrete walls (vertical side surfaces) do not apply here (see **39 (Wall)**).

**57 (Cable Barrier)** refers to a flexible barrier system that uses several cables typically supported by steel posts. These barriers are designed to help lessen impact or keep vehicles within the confines of the road.

**26 (Other Traffic Barrier)** is used for all other longitudinal barriers such as wood or rock.

**59 (Traffic Sign Support)** is used when the post supporting a traffic sign, or the sign itself, is hit by a motor vehicle in-transport. This includes mile marker posts and elevated signs.

**46 (Traffic Signal Support)** is used when the post supporting a traffic signal, or the signal itself, is hit by a motor vehicle in-transport. **Use 46 (Traffic Signal Support) for a railroad crossing arm/gate.**

**30 (Utility Pole/Light Support)** refers to supports for highway lighting systems, not including other private lighting systems (e.g., parking lot lights). **30 (Utility Pole/Light Support)** is used for electrical, telephone, cable, and other utility pole-type supports.

**31 (Other Post, Other Pole, or Other Supports)** is used for posts other than highway signs, utility poles, or light supports (reflectors on poles alongside of roadway, parking meters, flag poles, etc.). For mailbox posts, use [53 \(Mailbox\)](#). For fence posts, use [38 \(Fence\)](#).

**32 (Culvert)** is a man-made drain or channel crossing under a road, sidewalk, etc.

**33 (Curb)** is a concrete or asphalt structure that borders the paved surface. It provides drainage control and pavement edge delineation. The face of the curb may be sloped or vertical. Ensure that the police crash report provides some indication that damage has occurred when a vehicle strikes a curb. This attribute includes collisions with curbing that forms raised islands, medians, or separators. For example, if the report identifies the vehicle struck/collided with a traffic island, channelizing island, raised median, or separator use **33 (Curb)** not [43 \(Other Fixed Object\)](#).

**34 (Ditch)** includes any man-made structure for drainage purposes. A ditch ends where a culvert begins and resumes on the opposite side of the culvert. Reference to a “ditchbank,” “embankment of the ditch,” or “ditch embankment” should be coded under **34 (Ditch)**.

**35 (Embankment)** is a raised structure to hold back water, to carry a roadway, or the result of excavation or washout (including erosion) that may be faced with earth (or rock, stone, or concrete). A **35 (Embankment)** can usually be differentiated from a [39 \(Wall\)](#) by its incline whereas a wall is usually vertical. However, there are exceptions to this, such as a retaining wall that may be inclined or a vertical embankment that is caused by a natural event such as a washout.

In crashes involving a field approach or driveway crossing, use attribute **35 (Embankment)** when no specific components (e.g., culverts or ditches) are identified.

**38 (Fence)** includes the fence posts. A Fence can be made of wood, chain link, stone, etc.

**39 (Wall)** is a primarily vertical structure composed of concrete, metal, timber, or stone that is not part of a building or a fence but typically is used for retaining earth, abating noise, and separating areas (but not for containment as in the primary function of a fence). Also included as a **39 (Wall)**, are headwalls (or endwalls) that are sometimes provided on culvert ends principally to protect the sides of the embankment around the culvert opening against erosion. This does not include wing-walls, which are attached to ends of bridge abutments and extend back at an angle from the roadway. Wingwalls should be coded as [21 \(Bridge Pier or Support\)](#).

**40 (Fire Hydrant)** refers to the roadside device used by fire departments to provide water for fighting fires. Usually made of steel, these devices are also referred to as fire plugs or fire standpipes in some areas.

**41 (Shrubbery)** refers to vegetation that is usually of a woody, multi-stemmed variety and in most instances, is low growing rather than tall. May also be called bushes. Some common examples are boxwood, hawthorn, and mountain laurel.

**42 (Tree [Standing Only])** is used when a vehicle strikes a standing tree. This includes impacts from overhanging branches, tree stumps, or large cactus (Saguaro). If a vehicle strikes a fallen



tree, use [18 \(Other Object \[Not Fixed\]\)](#). If a tree falls on a vehicle as it is passing by, use [16 \(Thrown or Falling Object\)](#).

**48 (Snow Bank)** is used when snowfall and/or road plowing creates essentially fixed barriers of snow/ice that are not snow-covered earth or rock embankments.

**53 (Mailbox)** refers to a private residence mail/newspaper box including the post. A cluster of private mailboxes is included in this attribute. This attribute does not include U.S. Mailboxes, which are typically blue and are for general public use. Code a U.S. Mailbox as [43 \(Other Fixed Object\)](#).

**43 (Other Fixed Object)** is used when the object is fixed (considered a permanent structure) and is not described by any of the other fixed object attributes. This attribute excludes collisions with curbing that forms raised islands, medians, or separators (see [33 \(Curb\)](#)).

**Examples:**

- Bus shelters.
- Pedestrian walkways.
- Toll booths.
- Guy wires supporting utility poles.
- U. S. Mailbox for public use.

Other examples would include property damage to standing crops, yards, and other vegetation (excluding: [41 \(Shrubbery\)](#), [42 \(Tree \[Standing Only\]\)](#), and [58 \(Ground\)](#)) if noted on the crash report.

When the case material identifies a non-specific object impact, apply the following guidelines. If the case material only identifies the harmful event as:

- “Fixed Object,” then use **43 (Other Fixed Object)**.
- “Sign,” then use [59 \(Traffic Sign Support\)](#).
- “Post,” then use [31 \(Other Post, Other Pole, or Other Supports\)](#).
- “Signpost,” then use [59 \(Traffic Sign Support\)](#).
- “Bridge,” then use [23 \(Bridge Rail \[Includes Parapet\]\)](#) when the vehicle is on top of the bridge. When the vehicle is going under the bridge, use [21 \(Bridge Pier or Support\)](#).
- “Barrier,” then use [26 \(Other Traffic Barrier\)](#).

**93 (Unknown Fixed Object)** is used when the event involves an object that is known to be fixed but the case material does not identify the specific object.



### **Not Reported/Unknown**

**98 (Harmful Event, Details Not Reported)** is used when a harmful event was reported but the object classification was not reported. **Check to see if [91 \(Unknown Object Not Fixed\)](#), [93 \(Unknown Fixed Object\)](#), or [99 \(Reported as Unknown\)](#) are more appropriate for the situation.**

**99 (Reported as Unknown)** is used when police indicate unknown.

### **Consistency Checks [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>THEN</b>                                                 |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| 1Z0N            | SEQUENCE OF EVENTS for this vehicle should not include more than one occurrence of 01. Please see SEQUENCE OF EVENTS remarks for <a href="#">01 (Rollover/Overturn)</a> to confirm coding.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | --                                                          |
| 1Z1N            | SEQUENCE OF EVENTS for this vehicle should not equal 01, 67 consecutively or 67, 01 consecutively.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | --                                                          |
| 1Z1P            | any SEQUENCE OF EVENTS equals 66,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ROADWAY GRADE should equal 6 for this vehicle.              |
| 1Z2P            | any SEQUENCE OF EVENTS equals 01, <b>and vPIC BODY CLASS does not equal 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 104 (Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle), or any RELATED FACTORS-VEHICLE LEVEL equals 030,</b> | ROLLOVER must equal 1, 2, or 9.                             |
| 2Z0F            | any SEQUENCE OF EVENTS equals 12, 14, 45, 54, 55,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | NUMBER OF VEHICLE FORMS SUBMITTED must be greater than 001. |

| <b>Error ID</b> | <b>IF</b>                                                                   | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 440P            | UNDERRIDE/OVERRIDE equals 7,                                                | <b>VEHICLE SEQUENCE OF EVENTS must not equal 12, 14, 45, or 55, or CRASH EVENTS equals 12, 14, 45, or 55 for that vehicle, AND the vPIC BODY CLASS for at least one of the corresponding vehicles (THIS VEHICLE or OTHER VEHICLE) in that row equals 006 (Motorcycle – Standard), 012 (Motorcycle – Scooter), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring / Sport Touring ), 082 (Motorcycle - Cruiser ), 083 (Motorcycle – Trike), 084 (Off-road Vehicle - Dirt Bike / Off-Road), 085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road), 086 (Off-road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small / Minibike), 088 (Off-road Vehicle - Go Kart), 090 (Motorcycle - Side Car), 094 (Motorcycle – Custom), 097 (Off-road Vehicle – Snowmobile), 098 (Motorcycle – Street), 104 (Motorcycle – Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle – Underbone), 113 (Off-road Vehicle - Motocross (Off-road short distance, closed track racing)), 114 (Motorcycle – Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle).</b> |
| 4Z0P            | SEQUENCE OF EVENTS equals 02,                                               | FIRE OCCURRENCE for this vehicle must equal 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 4Z1P            | UNIT TYPE equals 1 and FIRE OCCURRENCE equals 1,                            | at least one SEQUENCE OF EVENTS must equal 02.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 4Z2P            | UNIT TYPE equals 4,                                                         | there must be at least one record in CRASH EVENTS TABLE with SEQUENCE OF EVENT equal to 45 for that vehicle VEHICLE NUMBER (OTHER VEHICLE).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 4Z3P            | UNIT TYPE equals 2 or 3                                                     | there must be at least one record in CRASH EVENTS TABLE with SEQUENCE OF EVENT equal to 14 for that vehicle VEHICLE NUMBER (OTHER VEHICLE).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 532F            | <b>FIRST HARMFUL EVENT equals 14, and RELATION TO TRAFFICWAY equals 07,</b> | <b>at least one previous CRASH EVENTS-SEQUENCE OF EVENTS should equal 63, 64, 71, or 79 for the motor vehicle in transport involved in the FIRST HARMFUL EVENT.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

| <b>Error ID</b> | <b>IF</b>                                                                                                                              | <b>THEN</b>                                                                                                                                                                                      |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5Z0F            | SEQUENCE OF EVENTS equals 08,                                                                                                          | at least one person must have PERSON TYPE equal to 05, 10.                                                                                                                                       |
| 671F            | the only harmful event in the SEQUENCE OF EVENTS for this vehicle equals 02 or 04,                                                     | CRITICAL EVENT - PRECRASH (EVENT) must equal 98.                                                                                                                                                 |
| 6Z0F            | SEQUENCE OF EVENTS equals 09,                                                                                                          | at least one person must have PERSON TYPE equal to 06, 07.                                                                                                                                       |
| 7Z0F            | any SEQUENCE OF EVENTS equals 05, 06,                                                                                                  | at least one occupant of this vehicle (PERSON TYPES 01, 02, 09) must have INJURY SEVERITY equal to 1-5, or blank.                                                                                |
| 8L8Q            | AREAS OF IMPACT (THIS VEHICLE) equals 18, 19, or 20 in the CRASH EVENTS,                                                               | the corresponding event in that row must not equal 12 or 55.                                                                                                                                     |
| 8L8R            | the CRASH EVENTS event equals 54,                                                                                                      | AREAS OF IMPACT (THIS VEHICLE) must equal 18, 19, or 20 in that row.                                                                                                                             |
| 8L8S            | AREAS OF IMPACT (THIS VEHICLE) equals 18, 19, or 20 in the CRASH EVENTS and the corresponding event in that row equals 14, 45, or 54,  | RELATED FACTORS-CRASH LEVEL must equal 014.                                                                                                                                                      |
| 8L8T            | RELATED FACTORS-CRASH LEVEL equals 014,                                                                                                | there must exist at least one event in the CRASH EVENTS where AREAS OF IMPACT (THIS VEHICLE or OTHER VEHICLE) equals 18, 19, or 20 and the corresponding event in that row equals 14, 45, or 54. |
| 8L8U            | AREAS OF IMPACT (THIS VEHICLE) equals 18, 19, or 20 in the CRASH EVENTS and the corresponding event in that row equals 08, 09, 15, 49, | RELATED FACTORS-CRASH LEVEL must equal 015.                                                                                                                                                      |
| 8L8V            | RELATED FACTORS-CRASH LEVEL equals 015,                                                                                                | there must exist at least one event in the CRASH EVENTS where AREAS OF IMPACT (THIS VEHICLE) equals 18, 19, or 20, and the corresponding event in that row equals 08-10, 15, 18, 49, or 91.      |
| 8L8W            | SEQUENCE OF EVENTS is not equal to 45,                                                                                                 | AREAS OF IMPACT (OTHER VEHICLE) should not equal 18 or 19.                                                                                                                                       |
| 8L8X            | AREAS OF IMPACT (THIS VEHICLE) equals 18,                                                                                              | there should be a previous event involving that vehicle where the CRASH EVENTS event equals 60, 61, 62, or 72.                                                                                   |
| 8L8Y            | SEQUENCE OF EVENTS is equal to 45 (Working Motor Vehicle),                                                                             | AREAS OF IMPACT (THIS VEHICLE) and AREAS OF IMPACT (OTHER VEHICLE) should not both equal 18 or 19 in that same event row.                                                                        |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>THEN</b>                                                                                                   |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| 8L9P            | <b>vPIC BODY CLASS</b> does not equal <b>006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring / Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 Off-road Vehicle - Dirt Bike / Off-Road), 085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road), 086 (Off-road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small / Minibike), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 097 (Off-road Vehicle - Snowmobile), 098 (Motorcycle - Street), 104 (Motorcycle - Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motocross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle)</b> , and the CRASH EVENTS event equals 54, and the corresponding AREAS OF IMPACT (THIS VEHICLE) equals 19 or 20 in that row, | there should be a previous event with CRASH EVENTS event equal to 18, 73, 91, or 98 involving that vehicle.   |
| 8Z0F            | any SEQUENCE OF EVENTS equals 15,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | at least one Person Level (Not a MV Occupant) form must have a PERSON TYPE code of <b>11, 12, or 13</b> .     |
| 9B9P            | any SEQUENCE OF EVENTS equals 55,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | there must be at least one other vehicle with UNIT TYPE equal to 1.                                           |
| A041            | CRASH MONTH equals 05-09,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | SEQUENCE OF EVENTS, FIRST HARMFUL EVENT, MOST HARMFUL EVENT should not equal 48.                              |
| A042            | CRASH EVENTS-SEQUENCE OF EVENTS equals <b>14</b> , 17, 19-21, 23-26, 30-35, 38-43, <b>46</b> , 52, 53, 57-59, <b>65, or 93</b> , for a vehicle,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | at least one previous CRASH EVENTS-SEQUENCE OF EVENTS should equal 63, 64, 71, or 79 for <b>this</b> vehicle. |
| A043            | SEQUENCE OF EVENTS for the last event in the CRASH EVENTS TABLE must not equal 60-71, 79.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | --                                                                                                            |
| A044            | CRASH EVENTS TABLE - SEQUENCE OF EVENT equals 45,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | the UNIT TYPE for VEHICLE NUMBER (OTHER VEHICLE) must equal 4.                                                |
| A045            | CRASH EVENTS TABLE - SEQUENCE OF EVENT equals 14,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | the UNIT TYPE for VEHICLE NUMBER (OTHER VEHICLE) must equal 2 or 3.                                           |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                          | <b>THEN</b>                                                                                                 |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| A047            | CRASH EVENTS TABLE - VEHICLE NUMBER (OTHER VEHICLE) UNIT TYPE is 1,                                                                                | SEQUENCE OF EVENT must equal 12, 54, or 55 for that row                                                     |
| A495            | TRAFFICWAY DESCRIPTION equals 0,                                                                                                                   | the first event in SEQUENCES OF EVENTS for this vehicle should not equal 63, 64, 69, or 71.                 |
| A520            | SEQUENCE OF EVENTS equals 10,                                                                                                                      | TRAFFIC CONTROL DEVICE should not equal 01-09, 20-29, 40-50, 98.                                            |
| A521            | any SEQUENCE OF EVENTS equals 46,                                                                                                                  | SPEED LIMIT should equal 05-55, 98, or 99 for this vehicle.                                                 |
| A612            | PERSON TYPE equals 04, and VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST equals____,                                                       | at least one SEQUENCE OF EVENTS must equal 10, 49, or 74 for that vehicle number in the CRASH EVENTS table. |
| A613            | PERSON TYPE equals 05, and VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST equals____,                                                       | at least one SEQUENCE OF EVENTS must equal 08 for that vehicle number in the CRASH EVENTS table.            |
| A614            | PERSON TYPE equals 06, and VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST equals____,                                                       | at least one SEQUENCE OF EVENTS must equal 09 for that vehicle number in the CRASH EVENTS table.            |
| A615            | PERSON TYPE equals 07, and VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST equals____,                                                       | at least one SEQUENCE OF EVENTS must equal 09 for that vehicle number in the CRASH EVENTS table.            |
| A616            | PERSON TYPE equals <b>11, 12, or 13</b> , and VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST equals____,                                    | at least one SEQUENCE OF EVENTS must equal 15 for that vehicle number in the CRASH EVENTS table.            |
| A617            | PERSON TYPE equals 10, and VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST equals____,                                                       | at least one SEQUENCE OF EVENTS must equal 08 for that vehicle number in the CRASH EVENTS table.            |
| A618            | PERSON TYPE equals 19, and VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST equals____,                                                       | at least one SEQUENCE OF EVENTS must equal 99 for that vehicle number in the CRASH EVENTS table.            |
| A619            | the total count of persons with PERSON TYPE equal to 05 that have the same VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is _____,         | the number of events equal to 08 for that vehicle in the CRASH EVENTS table should equal _____.             |
| A61A            | the total count of PERSON TYPE is equal to <b>11, 12, or 13</b> for the vehicle in VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is _____, | the number of events equal to 15 in the CRASH EVENTS table should equal _____ for that vehicle.             |

| <b>Error ID</b> | <b>IF</b>                                                                                                                        | <b>THEN</b>                                                                                     |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| A61B            | the total count of PERSON TYPE is equal to 10 for the vehicle in VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is _____, | the number of events equal to 08 in the CRASH EVENTS table should equal _____ for that vehicle. |
| AL1P            | SEQUENCE OF EVENTS equals 51, 62, 70,                                                                                            | VEHICLE TRAILING must not equal 0.                                                              |
| AL2P            | SEQUENCE OF EVENTS equals 45,                                                                                                    | WORK ZONE should equal 1-4.                                                                     |
| AL5P            | If UNIT TYPE equals 1,                                                                                                           | at least one event in the SEQUENCE OF EVENTS must equal the MOST HARMFUL EVENT.                 |
| AL8P            | SEQUENCE OF EVENTS equals 51, 70,                                                                                                | JACKKNIFE must equal 2, 3.                                                                      |
| AM1P            | FIRST HARMFUL EVENT equals 54, or SEQUENCE OF EVENTS equals 54 for any vehicle,                                                  | one RELATED FACTORS-CRASH LEVEL must equal 014.                                                 |
| AM2P            | any SEQUENCE OF EVENTS equals 25 or 57,                                                                                          | TRAFFICWAY DESCRIPTION should equal 3, 6.                                                       |
| BZ40            | CRITICAL EVENT - PRECRASH (EVENT) equals 01,                                                                                     | at least one SEQUENCE OF EVENTS must equal 61 for this vehicle.                                 |
| BZ50            | CRITICAL EVENT - PRECRASH (EVENT) equals 12, and PRE-IMPACT LOCATION is not equal to 5,                                          | at least one SEQUENCE OF EVENTS must equal 64 for this vehicle.                                 |
| BZ60            | CRITICAL EVENT - PRECRASH (EVENT) equals 13, and PRE-IMPACT LOCATION is not equal to 5,                                          | at least one SEQUENCE OF EVENTS must equal 63 for this vehicle.                                 |
| BZ70            | CRITICAL EVENT - PRECRASH (EVENT) equals 14,                                                                                     | at least one SEQUENCE OF EVENTS must equal 71 for this vehicle.                                 |
| BZ90            | CRASH TYPE equals 01-05, and PRE-IMPACT LOCATION is not equal to 0 or 5,                                                         | at least one SEQUENCE OF EVENTS prior to the FIRST HARMFUL EVENT must equal 63.                 |
| BZ91            | CRASH TYPE equals 06-10, and PRE-IMPACT LOCATION is not equal to 0 or 5,                                                         | at least one SEQUENCE OF EVENTS prior to the FIRST HARMFUL EVENT must equal 64.                 |
| BZ92            | CRASH TYPE equals 14,                                                                                                            | at least one CRASH EVENTS-SEQUENCE OF EVENTS must equal 71 for this vehicle.                    |
| <b>BZ93</b>     | <b>PRE-IMPACT LOCATION equals 4,</b>                                                                                             | <b>at least one SEQUENCE OF EVENTS for this vehicle must equal 63, 64, 71, or 79.</b>           |
| PB00            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 110-910,                                                                 | at least one SEQUENCE OF EVENTS for the striking vehicle must equal 08 or 15.                   |
| PB02            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLE equals 111-980,                                                                    | at least one SEQUENCE OF EVENTS for the striking vehicle must equal 09.                         |
| U651            | UNLIKELY: SEQUENCE OF EVENTS equals 62, 60 consecutively.                                                                        | --                                                                                              |

| <b>Error ID</b> | <b>IF</b>                                                                                                  | <b>THEN</b>                                                                      |
|-----------------|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| U652            | UNLIKELY: SEQUENCE OF EVENTS equals 01, 58 or 58, 01 consecutively.                                        | --                                                                               |
| U653            | UNLIKELY: SEQUENCE OF EVENTS equals 65, 69 consecutively.                                                  | --                                                                               |
| U675            | UNLIKELY: TRAFFICWAY DESCRIPTION equals 1, 4, or 5, and any SEQUENCE OF EVENTS equals 65 for this vehicle. | --                                                                               |
| V74P            | UNIT TYPE equals 1, and ROLLOVER equals 1, 2, 9, or LOCATION OF ROLLOVER equals 1-7, 9,                    | at least one SEQUENCE OF EVENTS must equal 01 for this vehicle.                  |
| V990            | any SEQUENCE OF EVENTS equals 61,                                                                          | CONTRIBUTING CIRCUMSTANCES, MOTOR VEHICLE should not equal 00.                   |
| VH70            | UNIT TYPE equals 2-4,                                                                                      | elements JACKKNIFE, TRAVEL SPEED, AND SEQUENCE OF EVENTS must all be left blank. |
| VH83            | the only harmful SEQUENCE OF EVENTS for this vehicle equals 04-06,                                         | DAMAGED AREAS should equal 15.                                                   |
| VH84            | the only harmful SEQUENCE OF EVENTS for this vehicle equals 01-03, 16, 44, 51, 72, 98,                     | DAMAGED AREAS should not equal 15.                                               |

**Consistency Checks (FARS Only) ([See Section 400](#)):**

| <b>Error ID</b> | <b>IF</b>                      | <b>THEN</b>                                                                                    |
|-----------------|--------------------------------|------------------------------------------------------------------------------------------------|
| A230            | SEQUENCE OF EVENTS equals 10,  | LAND USE AND FUNCTIONAL SYSTEM (b) should not equal 01-03.                                     |
| V750            | UNDERRIDE/OVERRIDE equals 1-3, | FIRST HARMFUL EVENT or at least one SEQUENCE OF EVENTS (for this vehicle) should equal 12, 55. |
| V760            | UNDERRIDE/OVERRIDE equals 4-6, | FIRST HARMFUL EVENT or at least one SEQUENCE OF EVENTS (for this vehicle) should equal 14, 45. |
| V770            | UNDERRIDE/OVERRIDE equals 7,   | at least one SEQUENCE OF EVENTS (for this vehicle) must equal 12, 55.                          |
| V780            | UNDERRIDE/OVERRIDE equals 8,   | at least one SEQUENCE OF EVENTS (for this vehicle) must equal 14, 45.                          |

## V38 - Most Harmful Event

**FORMAT:** 2 numeric

**SAS NAME:** Vehicle.M\_HARM, Parkwork.PM\_HARM

**ELEMENT VALUES:**

### Non-Collision Most Harmful Events:

| Codes | Attributes                                                                   |
|-------|------------------------------------------------------------------------------|
| 01    | <a href="#">Rollover/Overturn</a>                                            |
| 02    | <a href="#">Fire/Explosion</a>                                               |
| 03    | <a href="#">Immersion or Partial Immersion</a>                               |
| 04    | <a href="#">Gas Inhalation</a>                                               |
| 51    | <a href="#">Jackknife (harmful to this vehicle)</a>                          |
| 06    | <a href="#">Injured in Vehicle (non-collision)</a>                           |
| 44    | <a href="#">Pavement Surface Irregularity (ruts, potholes, grates, etc.)</a> |
| 07    | <a href="#">Other Non-Collision</a>                                          |
| 16    | <a href="#">Thrown or Falling Object</a>                                     |
| 72    | <a href="#">Cargo/Equipment Loss, Shift, or Damage (harmful)</a>             |
| 05    | <a href="#">Fell/Jumped from Vehicle</a>                                     |

### Collision With Motor Vehicle In-Transport:

| Codes | Attributes                                                                                                                                             |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12    | <a href="#">Motor Vehicle In-Transport</a>                                                                                                             |
| 54    | <a href="#">Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons, or Objects Set in Motion from/by Another Motor Vehicle In-Transport</a> |
| 55    | <a href="#">Motor Vehicle in Motion Outside the Trafficway</a>                                                                                         |

### Collision With Object Not Fixed:

| Codes | Attributes                                               |
|-------|----------------------------------------------------------|
| 08    | <a href="#">Pedestrian</a>                               |
| 09    | <a href="#">Pedalcyclist</a>                             |
| 10    | <a href="#">Railway Vehicle</a>                          |
| 74    | <a href="#">Road Vehicle on Rails</a>                    |
| 11    | <a href="#">Live Animal</a>                              |
| 49    | <a href="#">Ridden Animal or Animal Drawn Conveyance</a> |



| <b>Codes</b> | <b>Attributes</b>                                                      |
|--------------|------------------------------------------------------------------------|
| 18           | <a href="#">Other Object (not fixed)</a>                               |
| 15           | <a href="#">Non-Motorist on Personal Conveyance</a>                    |
| 14           | <a href="#">Parked Motor Vehicle</a>                                   |
| 45           | <a href="#">Working Motor Vehicle</a>                                  |
| 73           | <a href="#">Object That Had Fallen from Motor Vehicle In-Transport</a> |
| 91           | <a href="#">Unknown Object Not Fixed</a>                               |

### **Collision With Fixed Object:**

| <b>Codes</b> | <b>Attributes</b>                                         |
|--------------|-----------------------------------------------------------|
| 17           | <a href="#">Boulder</a>                                   |
| 19           | <a href="#">Building</a>                                  |
| 58           | <a href="#">Ground</a>                                    |
| 20           | <a href="#">Impact Attenuator/Crash Cushion</a>           |
| 50           | <a href="#">Bridge Overhead Structure</a>                 |
| 21           | <a href="#">Bridge Pier or Support</a>                    |
| 23           | <a href="#">Bridge Rail (Includes Parapet)</a>            |
| 24           | <a href="#">Guardrail Face</a>                            |
| 52           | <a href="#">Guardrail End</a>                             |
| 25           | <a href="#">Concrete Traffic Barrier</a>                  |
| 57           | <a href="#">Cable Barrier</a>                             |
| 26           | <a href="#">Other Traffic Barrier</a>                     |
| 59           | <a href="#">Traffic Sign Support</a>                      |
| 46           | <a href="#">Traffic Signal Support</a>                    |
| 30           | <a href="#">Utility Pole/Light Support</a>                |
| 31           | <a href="#">Other Post, Other Pole, or Other Supports</a> |
| 32           | <a href="#">Culvert</a>                                   |
| 33           | <a href="#">Curb</a>                                      |
| 34           | <a href="#">Ditch</a>                                     |
| 35           | <a href="#">Embankment</a>                                |
| 38           | <a href="#">Fence</a>                                     |
| 39           | <a href="#">Wall</a>                                      |
| 40           | <a href="#">Fire Hydrant</a>                              |

| Codes | Attributes                           |
|-------|--------------------------------------|
| 41    | <a href="#">Shrubbery</a>            |
| 42    | <a href="#">Tree (Standing Only)</a> |
| 48    | <a href="#">Snow Bank</a>            |
| 53    | <a href="#">Mailbox</a>              |
| 43    | <a href="#">Other Fixed Object</a>   |
| 93    | <a href="#">Unknown Fixed Object</a> |

### **Not Reported/Unknown**

| Codes | Attributes                                          |
|-------|-----------------------------------------------------|
| 98    | <a href="#">Harmful Event, Details Not Reported</a> |
| 99    | <a href="#">Reported as Unknown</a>                 |

**Definition:** This element identifies the event that resulted in the most severe injury or, if no injury, the greatest property damage involving this motor vehicle.

**Remarks:** Must be the major event **FOR THIS VEHICLE**, even if different from the [FIRST HARMFUL EVENT](#). **Code for each vehicle. May be different for each vehicle.**

#### **Code using the following hierarchy:**

Fatalities/injuries to non-occupants are attributed to the vehicle that struck them when applying this hierarchy.

#### **A. FATALITIES take precedence over INJURIES.**

1. If this vehicle is involved in more than one event that causes fatality to its own occupants or to people not in a motor vehicle, choose the event that causes the greatest number of fatalities to occupants of this vehicle or to people not in a motor vehicle (not occupants of other vehicles). For example, if there are fatalities to non-occupants and vehicle occupants in separate events, the greater number of fatalities is more harmful.
2. If this vehicle is involved in more than one event that causes fatality to its own occupants or to people not in a motor vehicle; and if there are an equal number of fatalities in each such event, choose the fatal event that is worst with respect to other injuries and property damage. For example, if there are equal numbers of fatalities in each event, the event that also has additional injuries/damage is more harmful.
3. As a last resort choose the fatal event that occurred first, timewise.

**B. INJURIES take precedence over PROPERTY DAMAGE.**

1. If the vehicle is not involved in events that cause fatality to its occupants or to people not in a motor vehicle, choose the event that produces the worst injury.
2. If in doubt, choose the event with the greatest number of injuries.
3. If in doubt, choose the event that occurred first, timewise.

**C. If only PROPERTY DAMAGE results for this vehicle:**

1. Choose the event causing the most damage.
2. If in doubt, choose the event that happened first, timewise.

***Non-Collision Most Harmful Events:***

**Non-Collision events involving motorcycles and vehicles with a “load”:**

Non-Collision events may occur before or after a collision event. They should not be coded as a separate event if they occur as part of a collision event.

**Examples:**

- A motorcycle strikes a deer, overturns, and the rider becomes separated from the vehicle. Code the collision event, not the non-collision “Rollover/Overturn” and “Fell/Jumped from Vehicle” that occur as part of the collision event.
- One truck tractor/trailer rear-ends another truck tractor/trailer. The impact pushes the lead vehicle’s load into the back of the truck tractor cab with part falling onto the roadway. Code the collision event, not the non-collision “cargo-loss or shift” that occurred as part of the collision event.

**Most Harmful Event Coding Procedures for Parked and Working Motor Vehicles**

1. If the MOST HARMFUL EVENT for a parked/working motor vehicle is an impact with a motor vehicle in-transport, use [12 \(Motor Vehicle In-Transport\)](#).
  - a. **Example:** A parked motor vehicle (V2) is struck by an in-transport motor vehicle (V1) and this is the MOST HARMFUL EVENT for the parked motor vehicle (V2). The MOST HARMFUL EVENT for the parked motor vehicle (V2) is [12 \(Motor Vehicle In-Transport\)](#).
2. If the MOST HARMFUL EVENT for a parked/working motor vehicle is an impact with something after it has been set in motion, code that other thing.
  - a. **Example:** In a chain reaction crash, an in-transport motor vehicle (V1) strikes a parked motor vehicle (V2) injuring the person sitting in the driver’s seat of V2. The parked motor vehicle (V2) is pushed into an unoccupied motor vehicle (V3) and the parked motor vehicle (V3) strikes and kills a pedestrian. The MOST HARMFUL EVENT for parked motor vehicle (V3) is [08 \(Pedestrian\)](#).
3. If the MOST HARMFUL EVENT for a parked/working motor vehicle is an impact with anything set in motion except another parked or working motor vehicle, see attribute [12 \(Motor Vehicle In-Transport\)](#).

4. If the MOST HARMFUL EVENT for a parked/working motor vehicle is an impact with another parked or working motor vehicle that has been set in motion, use [14 \(Parked Motor Vehicle\)](#) or [45 \(Working Motor Vehicle\)](#), whichever describes the object set in motion.
5. The MOST HARMFUL EVENT for a parked/working motor vehicle can be a non-collision harmful event not recorded in the CRASH EVENTS list. For example, if a parked vehicle rolls over after an impact with an in-transport motor vehicle and the MOST HARMFUL EVENT is the rollover, then use code [01 \(Rollover/Overturn\)](#).
  - a. **Example:** A parked motor vehicle (V2) is struck by an in-transport vehicle (V1). The parked motor vehicle (V2) is pushed down an embankment and rolls over. The case material indicate the most harmful event for the parked motor vehicle (V2) is the rollover. The MOST HARMFUL EVENT for the parked motor vehicle (V2) is [01 \(Rollover/ Overturn\)](#).

**01 (Rollover/Overturn)** is used when a motor vehicle rotates (rollover) at least one quarter turn onto its side or end. For motorcycles, laying the motorcycle down on its side is sufficient to code **01 (Rollover/ Overturn)** as a harmful event if damage or injury is produced, even though the data element [ROLLOVER](#) is not applicable to motorcycles.

If there is a **01 (Rollover/Overturn)** that begins in another location but involves a ditch or embankment in the case (e.g., “rolled through the ditch,” “rolled down the embankment,” “came to rest against the embankment”), then the rule applies where if there is no damage associated with an impact with the fixed object during the rollover, it is not included in the CRASH EVENTS. If there is indication that damage resulted from an impact with the fixed object, it is included in the CRASH EVENTS. This follows the same logic as striking a tree or another vehicle during an overturn.

**Note:** For *vehicles* with attached *trailing unit(s)* by fixed *or non-fixed* linkage, when either the power unit or the *trailing unit(s)* rolls over, the entire vehicle will be considered a rollover. *This applies to all motor vehicles with any type of trailing unit(s). If a motorcycle is pulling a trailing unit that overturns, the motorcycle should have 01 (Rollover/Overturn) in its Crash Events. However, since the power unit is a motorcycle, the element [ROLLOVER](#) still does NOT apply.*

**02 (Fire/Explosion)** is used for a vehicle fire or explosion that occurs during the crash sequence or as a result of the crash.

As it pertains to the occurrence of **02 (Fire/Explosion)**, the crash circumstances are not considered stabilized until the threat of damage to this vehicle, or injury consequences to this vehicle’s occupants, has ceased. Therefore, the crash sequence is not considered stabilized until all occupants have exited the vehicle and the scene has been declared safe by police or other authority. Fires that occur at a later time to vehicles abandoned at the scene (in open fields, on hillsides, etc.), or to vehicles removed from the scene to another location (tow yard, curbside, etc.), are not considered part of the crash sequence.

**03 (Immersion or Partial Immersion)** is used when **a** motor vehicle enters a body of water and results in injury or damage. This code would also be used if the vehicle came to rest in water and the depth cannot be ascertained from case material. **NOTE:** In immersion fatalities, the injury to the person may be noted as “drowning.”

**04 (Gas Inhalation)** includes injury or death as a result of toxic fumes, such as carbon monoxide fumes leaking from a motor vehicle.

**51 (Jackknife [harmful to this vehicle])** applies to a condition that occurs to an articulated vehicle (any vehicle with a trailing unit(s) connected by a hitch; truck tractor or single-unit truck with one or more trailers, articulated bus, car pulling a boat on a trailer, etc.) while in motion. The condition reflects a loss of control of the vehicle by the driver in which the trailer(s) yaws from its normal straight-line path behind the power unit, striking the power unit, causing damage to the power unit or trailer. Jackknife should only be coded as a harmful event if there is clear indication of damage to the jackknifed vehicle or injury to its occupants caused by the jackknife.

**06 (Injured in Vehicle [Non-Collision])** is used when an occupant is injured during an unstabilized situation without a collision, excluding cargo/equipment loss or shift. Examples: Driver slams on brake, causing an unrestrained passenger to be injured. Driver makes a sharp turn causing driver to strike head on side window, knocking driver unconscious.

**44 (Pavement Surface Irregularity [ruts, potholes, grates, etc.])** is used when the pavement surface irregularity is on a paved surface. Other examples include indication of contact with a dip, depression, low spot, trough, etc.) If the impact is with a surface irregularity (e.g., ruts, potholes) not on a paved surface, use the [58 \(Ground\)](#). For a vehicle that “bottoms out” on the paved surface (causing damage) due to speed but not because of a pavement surface irregularity, use attribute **07 (Other Non-Collision)**.

**07 (Other Non-Collision).** Non-collision not captured in the listed non-collision attributes.

**Examples:**

- Damage to the vehicle produced by its own dislodged vehicle parts (including hood flying up and contacting the windshield).
- A vehicle “bottoms out” (causing damage) due to speed but not because of a pavement surface irregularity. Damage due to pavement surface irregularities should be coded **44 (Pavement Surface Irregularity [ruts, potholes, grates, etc.])**.

**16 (Thrown or Falling Object)** is used when any object: (1) is thrown (intentionally or unintentionally) and impacts **a** vehicle, or (2) falls onto, into, or in the path of **a** motor vehicle. If a tree limb falls from a tree and is contacted by a car, enter **16 (Thrown or Falling Object)**. If a person maliciously throws an object off an overpass into traffic below, enter **16 (Thrown or Falling Object)**. This excludes contacts made by loads or objects set in motion by a motor vehicle (see [54 \(Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons, or Objects Set in Motion from/by Another Motor Vehicle In-Transport\)](#)).

**72 (Cargo/Equipment Loss, Shift, or Damage [harmful])** refers specifically to the loss or shift of items carried on or in a motor vehicle or its trailing unit, causing damage and/or injury to the vehicle, its occupants, its parts, trailing unit, or the cargo itself. Harm can be measured in loss of monetary value from unrecoverable cargo loss as well as physical damage. This attribute should never be used to refer to a “collision” event (see [54 \(Motor Vehicle In-Transport Strikes or is](#)

## Struck by Cargo, Persons, or Objects Set in Motion from/by Another Motor Vehicle In-Transport)).

### **Examples:**

- A pickup truck brakes rapidly to avoid a collision. This causes a piece of lumber in the pickup bed to smash through the rear window.
- Unsecured cargo shifts inside a box truck and bursts through the wall of the trailer.
- Pallets of beehives on a flatbed truck fall off the truck on a sharp curve causing the hives to open and the bees to fly away.

### **Notes:**

In situations when a cargo shift is part of a collision event, the cargo shift is not coded separately. See [Non-Collision events involving motorcycles and vehicles with a “load.”](#)

- Unsecured cargo shifts inside a box truck causing a loss of control. The driver overcorrects, driving off the road. This would be a [60 \(Cargo/Equipment Loss or Shift \[non-harmful\]\)](#) in the [SEQUENCE OF EVENTS](#).
- Use [07 \(Other Non-Collision\)](#) in a situation where a motor vehicle in-transport is towing another unit (e.g., motor vehicle, trailer, etc.) and the second unit collides into the back of the power unit (not a Jackknife or part of a collision event).

**05 (Fell/Jumped from Vehicle)** is used when an occupant of this vehicle falls or jumps (not suicide) from the vehicle causing injury. For example, an occupant of a motor vehicle in-transport leans against the car door, it opens and the occupant falls out; or a person riding on a vehicle's exterior (hood, roof, running board, etc.) falls or jumps, and is injured by the fall. If an occupant falls or jumps from a vehicle and is struck by that vehicle, use this attribute.

### ***Collision With Motor Vehicle In-Transport:***

**12 (Motor Vehicle In-Transport)** is used when the most injury- or damage-producing event is two motor vehicles in-transport making contact within the trafficway boundaries.

#### **Parked and Working Motor Vehicles:**

This attribute is used for parked and working motor vehicles when their MOST HARMFUL EVENT is an impact with a motor vehicle in-transport.

This attribute also applies to parked and working motor vehicles when their MOST HARMFUL EVENT is an impact with any object set in motion other than another parked or working motor vehicle. Set in motion objects include cargo, people, stone, stop sign, tire tread, and debris from a previous impact. If the object set in motion is another parked or working motor vehicle use [14 \(Parked Motor Vehicle\)](#) or [45 \(Working Motor Vehicle\)](#), whichever describes the object set in motion.

### **Examples:**

- If the MOST HARMFUL EVENT for V1 (a motor vehicle in-transport) is when V1 impacts V2 (another motor vehicle in-transport) within the trafficway boundaries, then the MOST HARMFUL EVENT for V1 is [12 \(Motor Vehicle In-Transport\)](#).

- If the most harmful event for V2 (a parked motor vehicle) is when V2 is struck by V1 (a motor vehicle in-transport), then the MOST HARMFUL EVENT for V2 is [12 \(Motor Vehicle In-Transport\)](#).
- If the MOST HARMFUL EVENT for V2 (a parked motor vehicle) is when V2 is struck by a stop sign set in motion by V1 (a motor vehicle in-transport), then the MOST HARMFUL EVENT for V2 is [12 \(Motor Vehicle In-Transport\)](#).
- If V1 (a motor vehicle in-transport) strikes V2 (a parked motor vehicle) and V2 then strikes V3 (a parked motor vehicle), then the MOST HARMFUL EVENT for V3 is [14 \(Parked Motor Vehicle\)](#).

**54 (Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons, or Objects Set in Motion from/by Another Motor Vehicle In-Transport)** applies only to events involving two in-transport motor vehicles. It is used in two situations: **1)** The most harmful injury- or damage-producing event for an in-transport motor vehicle is when something it sets in motion (cargo, person, object) strikes another in-transport motor vehicle. **2)** The most harmful injury- or damage-producing event for an in-transport motor vehicle is when it is struck by cargo, people, or objects set in motion by another in-transport motor vehicle.

**Example:**

Cargo that fell from an in-transport motor vehicle (V1) is involved in an impact with V2, another in-transport motor vehicle. The case material indicate this is the most harmful event for both V1 and V2. MOST HARMFUL EVENT is **54 (Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons, or Objects Set in Motion from/by Another Motor Vehicle In-Transport)** for both V1 and V2.

When selecting the MOST HARMFUL EVENT, **54 (Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons, or Objects Set in Motion from/by Another Motor Vehicle In-Transport)** does not have to be the MOST HARMFUL EVENT for both vehicles.

**Example:**

Cargo that fell from an in-transport motor vehicle (V1) is involved in an impact with V2, another in-transport motor vehicle. This event is the only event for V1. Thus, **54 (Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons, or Objects Set in Motion from/by Another Motor Vehicle In-Transport)** is the MOST HARMFUL EVENT for V1. The case material identifies a subsequent impact by V2 with a tree as the MOST HARMFUL EVENT for V2. Thus, [42 \(Tree \[Standing Only\]\)](#) is the MOST HARMFUL EVENT for V2.

This attribute does not apply when the MOST HARMFUL EVENT for an **in-transport motor vehicle** is an impact between cargo, a person, or object it set in motion and something other than a motor vehicle in transport. In this case, use the “[collision with non-fixed object](#),” or “[collision with fixed object](#)” code that is applicable.

**Examples:**

- If the MOST HARMFUL EVENT for an in-transport motor vehicle is when cargo that fell off its trailer strikes a pedestrian, code [08 \(Pedestrian\)](#).

- If the MOST HARMFUL EVENT for an in-transport motor vehicle is when a parked motor vehicle it set in motion strikes a pedestrian, code [08 \(Pedestrian\)](#).
- If the MOST HARMFUL EVENT for an in-transport motor vehicle is when cargo that fell off its trailer strikes a parked motor vehicle, code [14 \(Parked Motor Vehicle\)](#).

**55 (Motor Vehicle in Motion Outside the Trafficway)** is used when the injury- or damage-producing event is two motor vehicles in-transport making contact outside the trafficway boundaries in a motor vehicle traffic crash.

**Example:**

A vehicle loses control attempting to turn into a gas station and strikes another vehicle pulling away from the pump in the station lot.

***Collision With Object Not Fixed:***

**08 (Pedestrian)** is used for all those not on a personal conveyance. A person pushing a vehicle should be coded **08 (Pedestrian)**. A person being carried by another person should also be considered a **08 (Pedestrian)**.

**09 (Pedalcyclist)** is used for any person on a non-motorized other road vehicle propelled by pedaling. Examples include a bicycle, tricycle, unicycle, or pedal car.

If a non-motorist is hit as a result of a vehicle to vehicle collision and you cannot reasonably determine which vehicle struck the non-motorist, use the lowest vehicle number of the MVIT(s) involved in the vehicle to vehicle event that resulted in the pedestrian or pedalcyclist collision. In the element [RELATED FACTORS - PERSON \(NOT A MOTOR VEHICLE OCCUPANT\) LEVEL](#) code [031 Default Code Used for Vehicle Numbering](#).

**10 (Railway Vehicle)** is any land vehicle that is (1) designed primarily for, or in use for, moving people or property from one place to another on rails and (2) not in use on a land way other than a railway.

- **Inclusions:** Railway Trains, Streetcar/trolley on private way.
- **Exclusions:** Streetcar/trolley operating on trafficway.

**74 (Road Vehicle on Rails)** is any land vehicle on rails operating in a trafficway.

- **Inclusions:** Streetcar/trolley operating on trafficway.
- **Exclusions:** Railway trains, streetcar/trolley on private way, streetcar/trolley or electric bus operating on tires.

**11 (Live Animal)** is used for collisions with live animals (domesticated or wild) that are not themselves being used as transportation or to draw a wagon, cart, or other transport device (see [ANSI D16.1](#)). Default to **11 (Live Animal)** if it cannot be determined if the struck animal is alive, dead, or if it was being ridden or drawing a transport device.

**49 (Ridden Animal or Animal-Drawn Conveyance)** is used for ridden animals and animals drawing transport devices. See **18 (Other Object [Not Fixed])** for an animal carcass.



**18 (Other Object [Not Fixed])** is used when a motor vehicle strikes a non-fixed object that is known NOT to have been the cargo or part of **a** motor vehicle in-transport or when it is UNKNOWN whether the object was the cargo or part of **a** motor vehicle in-transport (i.e., refers to objects such as a dead body, animal carcass, construction cones or barrels, an unattached trailer, a bicycle without a rider, downed tree limbs or power lines, or debris from a prior crash). For objects that have become separated from a motor vehicle in-transport not as a result of a prior crash, use attribute [\*\*73 \(Object That Had Fallen from Motor Vehicle In-Transport\)\*\*](#).

**15 (Non-Motorist on Personal Conveyance)** is used for pedestrians using personal conveyances. A personal conveyance is a device, other than a transport device, used by a pedestrian for personal mobility assistance or recreation. These devices can be motorized or human powered, but not propelled by pedaling.

**Inclusions:**

1. Rideable toys
  - a. Roller skates, in-line skates
  - b. Skateboards
  - c. Skates
  - d. Baby carriage
  - e. Scooters
  - f. Toy wagons
2. Motorized rideable toys
  - a. Motorized skateboard
  - b. Motorized toy car
  - c. ***Motorized kick scooter***
3. Devices for personal mobility assistance
  - a. ***Self-balancing personal conveyance (e.g., Segway-style device)***
  - b. Motorized and non-motorized wheelchair
  - c. ***Mobility aid*** scooters

**Exclusions:**

1. Golf cart
2. Low-speed vehicles (LSVs)
3. Go-carts
4. Minibike
5. “Pocket” motorcycles
6. Motor scooters
7. Moped

**14 (Parked Motor Vehicle)** is used when the impact occurred between a motor vehicle in-transport and a motor vehicle neither on a roadway nor in motion. A vehicle stopped off the roadway, its door open over a roadway, is not in-transport. This attribute would also apply for a parked vehicle struck by another parked vehicle. For example, if a motor vehicle in-transport hits a parked vehicle and pushes it into a second parked vehicle (the only event for the second parked vehicle), the MOST HARMFUL EVENT for the second parked vehicle is

**14 (Parked Motor Vehicle).**

**45 (Working Motor Vehicle)** is used to indicate the motor vehicle contacted was in the act of performing construction, maintenance, or utility work related to the trafficway when it became an involved unit. The vehicle should be known to be in the act of performing work. This “work” may be located within open or closed portions of the trafficway and motor vehicles performing these activities can be within or outside the trafficway boundaries. This code does not include private construction/maintenance vehicles, or vehicles such as garbage trucks, delivery trucks, taxis, emergency vehicles, tow trucks, etc. **DO NOT evaluate this attribute on NCSA Body Type alone.**

**Examples:**

1. Asphalt/steam roller working in a highway construction zone paving the roadway or flattening dirt.
2. State highway maintenance crew painting lane lines on the road, mowing grass on the roadside or median, repairing potholes, removing debris from the roadway, etc.
3. Utility truck or a “cherry picker,” performing maintenance on power lines along the roadway or maintaining a traffic signal.
4. A private excavating company contracted by the State digging the foundation for a new overpass.
5. A State, county, or privately-owned snowplow, plowing ice/snow as part of a highway maintenance activity.
6. Street sweeper sweeping the street.
7. A vehicle in a mobile work convoy displaying arrow boards or other signaling devices warning motorists of the work activity.
8. A law enforcement vehicle that is participating strictly in a stationary construction or mobile maintenance activity as a traffic slowing, control, signaling, or calming influence.

**NOTE:** Code “45” excludes working activities other than highway construction, maintenance, or utility vehicles (garbage truck picking up trash, mail/delivery trucks while making deliveries, personal vehicles plowing snow, etc. These are considered motor vehicles In-transport). Use [RELATED FACTORS-VEHICLE LEVEL](#) code **042 (Other Working Vehicle [Not Construction, Maintenance, Utility, Police, Fire, or EMS Vehicle])** to identify these vehicles.

A question may arise when a police, fire, or emergency medical vehicle is struck on the roadway while at the scene of a crash, at a traffic stop, or as traffic control. The question becomes, “has its function changed from being a motor vehicle in-transport to a working

vehicle?” The answer is “no.” Treat these situations as a motor vehicle in-transport striking another motor vehicle in-transport. Use RELATED FACTORS-VEHICLE LEVEL code [041 \(Police, Fire, or EMS Vehicle Working at the Scene of an Emergency or Performing Other Traffic Control Activities\)](#) to identify that this vehicle was struck while performing these work activities.

**73 (Object That Had Fallen from Motor Vehicle In-Transport)** is used when a motor vehicle impacts a non-fixed object at rest that is known to have been the cargo or part of *a* motor vehicle in-transport. Do not use this attribute for debris from a prior crash. This attribute does not include vehicle occupants that are ejected or fall from a motor vehicle in-transport (e.g., a motorcycle operator falling from a motorcycle). For people falling from a motor vehicle, see the non-collision event [05 \(Fell/Jumped From Vehicle\)](#). For impacts involving two motor vehicles in-transport resulting from cargo, people, or objects set in motion, see [54 \(Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons, or Objects Set in Motion from/by another Motor Vehicle In-Transport\)](#). For at rest detached trailers (e.g., a detached semi-trailer), use attribute [18 \(Other Object \[Not Fixed\]\)](#). If cargo fell from a vehicle, came to rest, and was struck, this attribute would apply. If the cargo was at rest in the roadway as a result of a prior crash, use attribute [18 \(Other Object \[Not Fixed\]\)](#).

**91 (Unknown Object Not Fixed)** is used when the event involves an object that is known to be not fixed but the case material does not identify the specific object.

### ***Collision With Fixed Object:***

The attributes [58 \(Ground\)](#), [33 \(Curb\)](#), [34 \(Ditch\)](#), and [35 \(Embankment\)](#) are grouped under the Collision With Fixed Object subset because they are intended to be harmful events in the crash (i.e., they are associated with an impact that produces injury or damage).

When coding these events there must be fields on the or verbiage in the narrative such as “struck,” “hit,” “impacted,” etc. that identify these as harmful.

For cases where the indication of the harmful event came from the narrative, there may not be a corresponding indication of damage in any police crash report field. In these instances, code the harmful event as stated in the narrative and include the corresponding attribute under [AREAS OF IMPACT](#).

If there is no indication of damage from contact with the fixed object in fields on the police crash report and the narrative language does not identify it as a harmful event (e.g., “came to rest on the embankment,” “drove through” or “drove across” the ditch and/or the embankment, or “drove over” the curb), do not code **33 (Curb)**, **34 (Ditch)**, or **35 (Embankment)** in the [SEQUENCE OF EVENTS](#).

**17 (Boulder)** is a rock of sufficient mass that when struck by a motor vehicle moves very little and remains basically intact. It may be considered as a fixed object.

**19 (Building)** is used when the vehicle impacts a roofed and walled structure built for permanent use. The type of construction material used is not of interest, nor is the use of the building.

**58 (Ground)** is used when the impact is with an earthen or paved surface off the roadway. **58 (Ground)** is not to be entered when the harmful event is [01 \(Rollover/Overturn\)](#).

Indication of furrowing, gouging, or digging in of the tires/wheels is not sufficient to code the collision event **58 (Ground)**. For example, if the police crash report narrative states “the trucks tires dug into the turf causing the vehicle to roll over,” the harmful event should be **01 (Rollover/Overturn)**.

**20 (Impact Attenuator/Crash Cushion)** is a device for controlling the absorption of energy released during vehicle collision (crash cushion). Its most common application involves the protection of fixed roadside objects such as bridge piers, elevated gores at exit ramps, etc. Examples include barrels filled with water or sand, and plastic collapsible structures.

**50 (Bridge Overhead Structure)** is used when striking the bottom of a bridge while traveling underneath it. See [Figure 20](#) for a diagram of Bridge Components.

**21 (Bridge Pier or Support)** is a square or round column of stone, concrete, brick, steel, or wood for supporting a bridge between abutments. This attribute includes the bridge abutments that are supporting the ends of a bridge. Abutments are generally designed for retaining or supporting the embankment under bridge ends and composed of stone, concrete, brick, or wood (includes the wing-walls). See [Figure 20](#) for a diagram of Bridge Components.

**23 (Bridge Rail [Includes Parapet])** is a wooden, brick, stone, concrete, or metal fence-like structure that runs along the outermost edge of the roadway or sidewalk on the bridge or a rail constructed along the top of a parapet. Balustrade is often used synonymously with parapet. See [Figure 20](#) or a diagram of Bridge Components.

- Bridges do not need to support another roadway. It may be an overpass for a train or even for a viaduct (water conduit).

**24 (Guardrail Face)** is a low barrier that has the primary longitudinal structure composed of metal (plates, mesh, box beam, etc.). A guardrail is differentiated from **25 (Concrete Traffic Barrier)** by the material making up the greatest part of the longitudinal portion of the structure. In the case of guardrails, this is metal whereas in concrete barriers this is concrete (including concrete rails). If the crash report does not differentiate between guardrail face and end, default to guardrail face.

Guardrails that serve as bridge rails should be coded as **23 (Bridge Rails [Includes Parapet])**.

**52 (Guardrail End)** is coded if a vehicle strikes the end of a guardrail. Guardrails can have a separate flat or rounded piece of metal attached to the end of an expanse of guardrail face.

**25 (Concrete Traffic Barrier)** refers to the longitudinal traffic barriers constructed of concrete. This includes all temporary concrete barriers regardless of location (i.e., temporary Jersey Barrier on a bridge being used to control traffic during bridge repair/construction). Concrete walls (vertical side surfaces) do not apply here (see [39 \(Wall\)](#)).

**57 (Cable Barrier)** refers to a flexible barrier system that uses several cables typically supported by steel posts. These barriers are designed to help lessen impact or keep vehicles within the confines of the road.

**26 (Other Traffic Barrier)** is used for all other longitudinal barriers such as wood or rock.

**59 (Traffic Sign Support)** is used when the post supporting a traffic sign, or the sign itself, is hit by a motor vehicle. This includes mile marker posts and elevated signs.

**46 (Traffic Signal Support)** is used when the post supporting a traffic signal, or the signal itself, is hit by a motor vehicle. *Use 46 (Traffic Signal Support) for a railroad crossing arm/gate.*

**30 (Utility Pole/Light Support)** refers to supports for highway lighting systems, not including other private lighting systems (e.g., parking lot lights). **30 (Utility Pole/Light Support)** is used for electrical, telephone, cable, and other utility pole-type supports.

**31 (Other Post, Other Pole, or Other Supports)** is used for posts other than highway signs, utility poles, or light supports (reflectors on poles alongside of roadway, parking meters, flag poles, etc.). For mailbox posts, use [53 \(Mailbox\)](#). For fence posts, use [38 \(Fence\)](#).

**32 (Culvert)** is a man-made drain or channel crossing under a road, sidewalk, etc.

**33 (Curb)** is a concrete or asphalt structure that borders the paved surface. It provides drainage control and pavement edge delineation. The face of the curb may be sloped or vertical. Ensure that the police crash report provides some indication that damage has occurred when a vehicle strikes a curb. This attribute includes collisions with curbing that forms raised islands, medians, or separators. For example, if the report identifies the vehicle struck/collided with a traffic island, channelizing island, raised median, or separator, use **33 (Curb)** not [43 \(Other Fixed Object\)](#).

**34 (Ditch)** includes any man-made structure for drainage purposes. A ditch ends where a culvert begins and resumes on the opposite side of the culvert. Reference to a “ditchbank,” “embankment of the ditch,” or “ditch embankment” should be coded under **34 (Ditch)**.

**35 (Embankment)** is a raised structure to hold back water, to carry a roadway, or the result of excavation or washout (including erosion) that may be faced with earth (or rock, stone, or concrete). A **35 (Embankment)** can usually be differentiated from a [39 \(Wall\)](#) by its incline whereas a wall is usually vertical. However, there are exceptions to this, such as a retaining wall that may be inclined or a vertical embankment that is caused by a natural event such as a washout. In crashes involving a field approach or driveway crossing, use attribute **35 (Embankment)** when no specific components (e.g., culverts or ditches) are identified.

**38 (Fence)** includes the fence posts. A Fence can be made of wood, chain link, stone, etc.

**39 (Wall)** is a primarily vertical structure composed of concrete, metal, timber, or stone that is not part of a building or a fence but typically is used for retaining earth, abating noise, and separating areas (but not for containment as in the primary function of a fence). Also included as a **39 (Wall)** are headwalls (or endwalls) that are sometimes provided on culvert ends principally to protect the sides of the embankment around the culvert opening against erosion. This does not include wing-walls, which are attached to ends of bridge abutments and extend back at an angle from the roadway. Wingwalls should be coded as [21 \(Bridge Pier or Support\)](#).

**40 (Fire Hydrant)** refers to the roadside device used by fire departments to provide water for fighting fires. Usually made of steel, these devices are also referred to as fire plugs or fire standpipes in some areas.

**41 (Shrubbery)** refers to vegetation that is usually of a woody multi-stemmed variety and in most instances, is low growing rather than tall. May also be called bushes. Some common examples are boxwood, hawthorn, and mountain laurel.

**42 (Tree [Standing Only])** is used when a vehicle strikes a standing tree. This includes impacts from overhanging branches, tree stumps, or large cactus (Saguaro). If a vehicle strikes a fallen

tree, use [18 \(Other Object \[Not Fixed\]\)](#). If a tree falls on a vehicle as it is passing by, use [16 \(Thrown or Falling Object\)](#).

**48 (Snow Bank)** is used when snowfall and/or road plowing creates essentially fixed barriers of snow/ice that are not snow-covered earth or rock embankments.

**53 (Mailbox)** refers to a private residence mail/newspaper box including the post. A cluster of private mailboxes is included in this attribute. This element does not include U.S. Mailbox, which are typically blue and are for general public use. Code a U.S. Mailbox as **43 (Other Fixed Object)**.

**43 (Other Fixed Object)** is used when the object is fixed (considered a permanent structure) and is not described by any of the other fixed object attributes. This attribute excludes collisions with curbing that forms raised islands, medians, or separators (See also [33 \(Curb\)](#).)

**Examples:**

- Bus shelters
- Pedestrian walkways
- Toll booths
- Guy wires supporting utility poles
- U.S. Mailbox for public use

Other examples would include property damage to standing crops, yards, and other vegetation (excluding: [41 \(Shrubbery\)](#), [42 \(Tree \[Standing Only\]\)](#), and [58 \(Ground\)](#)) if noted on the crash report.

When the case material identifies a non-specific object impact, apply the following guidelines. If the case material only identifies the harmful event as:

- “Fixed Object,” then use [43 \(Other Fixed Object\)](#).
- “Sign,” then use [59 \(Traffic Sign Support\)](#).
- “Post,” then use [31 \(Other Post, Other Pole, or Other Supports\)](#).
- “Signpost,” then use [59 \(Traffic Sign Support\)](#).
- “Bridge,” then use [23 \(Bridge Rail \[Includes Parapet\]\)](#) when the vehicle is on top of the bridge. When the vehicle is going under the bridge, use [21 \(Bridge Pier or Support\)](#).
- “Barrier,” then use [26 \(Other Traffic Barrier\)](#).

**93 (Unknown Fixed Object)** is used when the event involves an object that is known to be fixed but the case material does not identify the specific object.

**Not Reported/Unknown**

**98 (Harmful Event, Details Not Reported)** is used when a harmful event was reported but the object classification was not reported. *Check to see if [91 \(Unknown Object Not Fixed\)](#), [93 \(Unknown Fixed Object\)](#), or [99 \(Reported as Unknown\)](#) are more appropriate for the situation.*

**99 (Reported as Unknown)** is only used if the MOST HARMFUL EVENT is an event where the [SEQUENCE OF EVENTS](#) is **99 (Reported as Unknown)**.

**Consistency Checks** ([See Section 400](#)):

| <b>Error ID</b> | <b>IF</b>                                                                        | <b>THEN</b>                                                                      |
|-----------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| A041            | CRASH MONTH equals 05-09,                                                        | SEQUENCE OF EVENTS, FIRST HARMFUL EVENT, MOST HARMFUL EVENT should not equal 48. |
| AL3P            | UNIT TYPE equals 2-4,                                                            | MOST HARMFUL EVENT must not equal 54 for this vehicle.                           |
| AL5P            | UNIT TYPE equals 1,                                                              | at least one event in the SEQUENCE OF EVENTS must equal the MOST HARMFUL EVENT.  |
| AL7P            | UNIT TYPE equals 2-4,                                                            | MOST HARMFUL EVENT should not equal 04-07, 16, 51, 72.                           |
| AL9P            | there is one and only one parked vehicle (UNIT TYPE equals 2 or 3) in the crash, | MOST HARMFUL EVENT for the parked vehicle must not equal 14.                     |

### V39 - Fire Occurrence

**FORMAT:** 1 numeric

**SAS NAME:** Vehicle.FIRE\_EXP, Person.FIRE\_EXP, Parkwork.PFIRE

**ELEMENT VALUES:**

| Codes | Attributes                         |
|-------|------------------------------------|
| 0     | <a href="#">No or Not Reported</a> |
| 1     | <a href="#">Yes</a>                |

**Definition:** This element identifies whether or not a fire in any way related to the crash occurred in this vehicle.

**Remarks:** For the purposes of this element, “vehicle” is defined to mean the power unit plus any and all trailing units associated with the power unit.

If it cannot be determined that a fire occurred in the vehicle during the crash, use **0 (No or Not Reported)**.

**1 (Yes)** is used when the case material indicate that this vehicle sustained fire damage.

In a multi-vehicle crash where a fire occurs, only the vehicles sustaining fire damage should be coded as **1 (Yes)**.

Fires that begin in a vehicle before the first impact may be counted. If fire damage is produced, **02 (Fire/Explosion)** would be the [FIRST HARMFUL EVENT](#).

If the [MOST HARMFUL EVENT](#) for this vehicle is **02 (Fire/Explosion)**, or a fire in the vehicle is produced by damage in the crash, use **1 (Yes)**. The involved vehicles may be at rest for a short period of time.

If the vehicles are at rest long enough to raise a question about the fire’s relationship to the crash’s damage-producing events, use **0 (No or Not Reported)**.

#### Examples for Fire Occurrence:

| Examples                                                                                                                                                                                                                                           | Code                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| Car (V#1) strikes tank truck (V#2) in rear, the car catches on fire with no fire occurring for the tank truck.                                                                                                                                     | V#1 - <b>1 (Yes)</b><br>V#2 - <b>0 (No or Not Reported)</b>                |
| Vehicle #1 catches fire, causing driver to strike vehicle #2.                                                                                                                                                                                      | V#1 - <b>1 (Yes)</b><br>V#2 - <b>0 (No or Not Reported)</b>                |
| Vehicle #1 catches fire, causing driver to stop vehicle in roadway and all occupants exit vehicle. Two minutes later, a second car (V#2) rear-ends the stopped car and its driver is killed from collision. (Attributes reflect the second crash.) | V#1 - <b>0 (No or Not Reported)</b><br>V#2 - <b>0 (No or Not Reported)</b> |



**Consistency Checks [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                                         | <b>THEN</b>                                                                           |
|-----------------|---------------------------------------------------|---------------------------------------------------------------------------------------|
| 4Z0P            | SEQUENCE OF EVENTS equals 02,                     | FIRE OCCURRENCE for this vehicle must equal 1.                                        |
| 4Z1P            | UNIT TYPE equals 1, and FIRE OCCURRENCE equals 1, | at least one SEQUENCE OF EVENTS must equal 02.                                        |
| 540F            | FIRST HARMFUL EVENT equals 02,                    | the vehicle involved in the FIRST HARMFUL EVENT must have FIRE OCCURRENCE equal to 1. |

## V40 - Motor Vehicle Automated Driving System(s)

**FORMAT:** 3 sets, 2 numeric

**SAS NAME:** Vehicle.ADS\_PRES; Vehicle.ADS\_LEV; Vehicle.ADS\_ENG

**ELEMENT VALUES:**

### Subfield 1 - Automation System or Systems Present in Vehicle

| Codes | Attributes                          |
|-------|-------------------------------------|
| 00    | <a href="#">No</a>                  |
| 01    | <a href="#">Yes</a>                 |
| 98    | <a href="#">Not Reported</a>        |
| 99    | <a href="#">Reported as Unknown</a> |

### Subfield 2 - Highest Automation System Level Present in Vehicle

| Codes | Attributes                                               |
|-------|----------------------------------------------------------|
| 00    | <a href="#">Level 0 - No Automation</a>                  |
| 01    | <a href="#">Level 1 - Driver Assistance Present</a>      |
| 02    | <a href="#">Level 2 - Partial Automation Present</a>     |
| 03    | <a href="#">Level 3 - Conditional Automation Present</a> |
| 04    | <a href="#">Level 4 - High Automation Present</a>        |
| 05    | <a href="#">Level 5 - Full Automation Present</a>        |
| 09    | <a href="#">Automation Present, Level Unknown</a>        |
| 98    | <a href="#">Not Reported</a>                             |
| 99    | <a href="#">Reported as Unknown</a>                      |

### Subfield 3 - Highest Automation System Level Engaged at Time of Crash

| Codes | Attributes                                                           |
|-------|----------------------------------------------------------------------|
| 00    | <a href="#">Level 0 - No Automation</a>                              |
| 01    | <a href="#">Level 1 - Driver Assistance Engaged</a>                  |
| 02    | <a href="#">Level 2 - Partial Automation Engaged</a>                 |
| 03    | <a href="#">Level 3 - Conditional Automation Engaged</a>             |
| 04    | <a href="#">Level 4 - High Automation Engaged</a>                    |
| 05    | <a href="#">Level 5 - Full Automation Engaged</a>                    |
| 06    | <a href="#">Automation System(s) Engaged, Level Unknown</a>          |
| 09    | <a href="#">Automation System(s) Present, Unknown if Any Engaged</a> |

| Codes | Attributes                                                |
|-------|-----------------------------------------------------------|
| 90    | <a href="#">Automation System(s) Present, Not Engaged</a> |
| 98    | <a href="#">Not Reported</a>                              |
| 99    | <a href="#">Reported as Unknown</a>                       |

**Definition:** The hardware and software that are collectively capable of performing part of or all the dynamic driving task on a sustained basis. This term, Automated Driving System (ADS), is used generically to describe any system capable of level 1-5 driving automation. (SAE 2016) See [Figure 21](#) below.

**Remarks:**

Dynamic driving task includes the operational (steering, braking, accelerating, monitoring the vehicle and roadway) and tactical (responding to events, determining when to change lanes, turn, use signals, etc.) aspects of the driving task, but not the strategic (determining destinations and waypoints) aspect of the driving task.

Driving mode is a type of driving scenario with characteristic dynamic driving task requirements (expressway merging, high-speed cruising, low speed traffic jam, closed-campus operations, etc.).

Request to intervene is notification by the Automated Driving System (ADS) to a human driver that s/he should promptly begin or resume performance of the dynamic driving task.

***Subfield 1 - Automation System or Systems Present in Vehicle***

Indicates the presence of an Automation System or Systems in this vehicle.

**00 (No)** is used when an Automation System or Systems is/are not present in this vehicle. If Subfield 1 is coded **00 (No)**, then Subfield 2 and Subfield 3 must be coded 00 (Level 0 - No Automation).

**01 (Yes)** is used when an Automation System or Systems is/are present in this vehicle.

**98 (Not Reported)** *Check to see if 00 (No) or 99 (Reported as Unknown) are more appropriate for the situation.*

If a State's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "Not Reported."

Code **98 (Not Reported)** in these two situations:

1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

If Subfield 1 is coded **98 (Not Reported)**, then [Subfield 2](#) and [Subfield 3](#) must also be coded **98 (Not Reported)**.

**99 (Reported as Unknown)** is used if the investigating officer reported the presence of automated driving systems in this vehicle as unknown. If Subfield 1 is coded **99 (Reported as Unknown)**, then [Subfield 2](#) and [Subfield 3](#) must also be coded **99 (Reported as Unknown)**.

### ***Subfield 2 - Highest Automation System Level Present in Vehicle***

Indicates the highest level of Automation present in this vehicle. These systems do not have to be engaged in this vehicle at the time of the crash. See [Figure 21](#) for automation level determination.

**00 (Level 0 - No Automation):** is used when Subfield 1 is coded **00 (No)**.

**01 (Level 1 - Driver Assistance Present):** Driver assistance system of either steering or acceleration/ deceleration using information about the driving environment and with the expectation that the human driver performs all remaining aspects of the dynamic driving task. See [Figure 21](#) below.

**02 (Level 2 - Partial Automation Present):** The driving mode-specific execution by one or more driver assistance systems of both steering and acceleration/deceleration using information about the driving environment and with the expectation that the human driver performs all remaining aspects of the dynamic driving task. See [Figure 21](#).

**03 (Level 3 - Conditional Automation Present):** The driving mode-specific performance by an automated driving system of all aspects of the dynamic driving task with the expectation that the human driver will respond appropriately to a request to intervene. See [Figure 21](#) below.

**04 (Level 4 - High Automation Present):** The driving mode-specific performance by an automated driving system of all aspects of the dynamic driving task, even if a human driver does not respond appropriately to a request to intervene. See [Figure 21](#) below.

**05 (Level 5 - Full Automation Present):** The full-time performance by an automated driving system of all aspects of the dynamic driving task under all roadway and environmental conditions that can be managed by a human driver. See [Figure 21](#) below.

**09 (Automation Present, Level Unknown)** is used when it is known that an Automation System was present; however, the level of automation is unknown.

**98 (Not Reported)** is used when Subfield 1 is coded [98 \(Not Reported\)](#).

**99 (Reported as Unknown)** is used when Subfield 1 is coded [99 \(Reported as Unknown\)](#).

### ***Subfield 3 - Highest Automation System Level Engaged at Time of Crash***

Indicates the highest level of Automation that was known to have been engaged in this vehicle at the time of the crash. See [Figure 21](#) for automation level determination.

**00 (Level 0 - No Automation):** is used when Subfield 1 is coded 00 (No).

**01 (Level 1 - Driver Assistance Engaged):** Driver assistance system of either steering or acceleration/ deceleration using information about the driving environment and with the expectation that the human driver performs all remaining aspects of the dynamic driving task. See [Figure 21](#) below.

**02 (Level 2 - Partial Automation Engaged):** The driving mode-specific execution by one or more driver assistance systems of both steering and acceleration/deceleration using information about the driving environment and with the expectation that the human driver perform all remaining aspects of the dynamic driving task. See [Figure 21](#) below.

**03 (Level 3 - Conditional Automation Engaged):** The driving mode-specific performance by an automated driving system of all aspects of the dynamic driving task with the expectation that the human driver will respond appropriately to a request to intervene. See [Figure 21](#) below.

**04 (Level 4 - High Automation Engaged):** The driving mode-specific performance by an automated driving system of all aspects of the dynamic driving task, even if a human driver does not respond appropriately to a request to intervene. See [Figure 21](#) below.

**05 (Level 5 - Full Automation Engaged):** The full-time performance by an automated driving system of all aspects of the dynamic driving task under all roadway and environmental conditions that can be managed by a human driver. See [Figure 21](#) below.

**06 (Automation System(s) Engaged, Level Unknown)** is used when it is known that an Automation System was engaged at the time of the crash; however, the level of automation is unknown.

**09 (Automation System(s) Present, Unknown if Any Engaged)** is used when it is known that an Automation System was present in this vehicle; however, it is Unknown if it was engaged at the time of this crash.

**90 (Automation System(s) Present, Not Engaged)** is used when it is known that an Automation System or Systems is/are present in this vehicle, but none are engaged at the time of the crash.

**98 (Not Reported)** is used when Subfield 1 is coded [98 \(Not Reported\)](#).

**99 (Reported as Unknown)** is used when Subfield 1 is coded [99 \(Reported as Unknown\)](#).

| SAE level                                                                   | Name                          | Narrative Definition                                                                                                                                                                                                                                                                                       | Execution of Steering and Acceleration/Deceleration | Monitoring of Driving Environment | Fallback Performance of Dynamic Driving Task | System Capability (Driving Modes) |
|-----------------------------------------------------------------------------|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------|----------------------------------------------|-----------------------------------|
| <b>Human driver monitors the driving environment</b>                        |                               |                                                                                                                                                                                                                                                                                                            |                                                     |                                   |                                              |                                   |
| <b>0</b>                                                                    | <b>No Automation</b>          | the full-time performance by the <i>human driver</i> of all aspects of the <i>dynamic driving task</i> , even when enhanced by warning or intervention systems                                                                                                                                             | Human driver                                        | Human driver                      | Human driver                                 | n/a                               |
| <b>1</b>                                                                    | <b>Driver Assistance</b>      | the <i>driving mode</i> -specific execution by a driver assistance system of either steering or acceleration/deceleration using information about the driving environment and with the expectation that the <i>human driver</i> perform all remaining aspects of the <i>dynamic driving task</i>           | Human driver and system                             | Human driver                      | Human driver                                 | Some driving modes                |
| <b>2</b>                                                                    | <b>Partial Automation</b>     | the <i>driving mode</i> -specific execution by one or more driver assistance systems of both steering and acceleration/deceleration using information about the driving environment and with the expectation that the <i>human driver</i> perform all remaining aspects of the <i>dynamic driving task</i> | <b>System</b>                                       | Human driver                      | Human driver                                 | Some driving modes                |
| <b>Automated driving system ("system") monitors the driving environment</b> |                               |                                                                                                                                                                                                                                                                                                            |                                                     |                                   |                                              |                                   |
| <b>3</b>                                                                    | <b>Conditional Automation</b> | the <i>driving mode</i> -specific performance by an <i>automated driving system</i> of all aspects of the <i>dynamic driving task</i> with the expectation that the <i>human driver</i> will respond appropriately to a <i>request to intervene</i>                                                        | System                                              | <b>System</b>                     | Human driver                                 | Some driving modes                |
| <b>4</b>                                                                    | <b>High Automation</b>        | the <i>driving mode</i> -specific performance by an automated driving system of all aspects of the <i>dynamic driving task</i> , even if a <i>human driver</i> does not respond appropriately to a <i>request to intervene</i>                                                                             | System                                              | System                            | <b>System</b>                                | Some driving modes                |
| <b>5</b>                                                                    | <b>Full Automation</b>        | the full-time performance by an <i>automated driving system</i> of all aspects of the <i>dynamic driving task</i> under all roadway and environmental conditions that can be managed by a <i>human driver</i>                                                                                              | System                                              | System                            | System                                       | <b>All driving modes</b>          |

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Figure 21: SAE International's Levels of Driving Automation; SAE International Standard J3016 (2014)

Consistency Checks [\(See Section 400\)](#):

| Error ID | IF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | THEN                                                                                   |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| 1C1P     | <p><i>[[VEHICLE MODEL YEAR is greater than or equal to 2000 and vPIC BODY CLASS does not equal 004 (Low Speed Vehicle (LSV) / Neighborhood Electric Vehicle (NEV)), 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring / Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-Road Vehicle - Dirt Bike / Off-Road), 085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small / Minibike), 088 (Off-road Vehicle - Go Kart), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 097 (Off-road Vehicle - Snowmobile), 098 (Motorcycle - Street), 100 (Motorcycle - Enclosed Three Wheeled / Enclosed Autocycle), 103 (Motorcycle - Unenclosed Three Wheeled / Open Autocycle), 104 (Motorcycle - Moped), 105 (Off-road Vehicle - Recreational Off-Road Vehicle (ROV)), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 124 (Off-road Vehicle - Golf Cart), 125 (Motorcycle - Unknown Body Type), 126 (Off-road Vehicle - Farm Equipment), 127 (Off-road Vehicle - Construction Equipment), 996 (Motorized Bicycle), or 997 (Other)], or [vPIC BODY CLASS equals 006 (Motorcycle - Standard), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 109 (Motorcycle - Cross Country), or 125 (Motorcycle - Unknown Body Type), and VEHICLE MODEL YEAR is greater than 2020]], and STATE NUMBER does not equal 8 (CO), 17 (IL), 23 (ME), 26 (MI), or 28 (MS),</i></p> | <p>MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S) Subfield 1 should not equal 00 or 99.</p> |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                  | <b>THEN</b>                                                                                                                                 |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| U700            | UNLIKELY: MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S)-Subfield 2 or MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S)-Subfield 3 equals 3, 4, or 5.  | --                                                                                                                                          |
| U710            | UNLIKELY: MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S)-Subfield 1 equals 01 and VEHICLE MODEL YEAR is between 2000 and 2012.                  | --                                                                                                                                          |
| VA90            | MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S)-Subfield 1 equals 01,                                                                            | MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S)-Subfield 2 and MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S)-Subfield 3 must not equal 00, 98, or 99. |
| VA91            | MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S)-Subfield 1 equals 00,                                                                            | MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S)-Subfield 2 and MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S)-Subfield 3 must equal 00.                |
| VA92            | MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S)-Subfield 1 equals 98,                                                                            | MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S)-Subfield 2 and MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S)-Subfield 3 must equal 98.                |
| VA93            | MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S)-Subfield 1 equals 99,                                                                            | MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S)-Subfield 2 and MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S)-Subfield 3 must equal 99.                |
| VA94            | MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S)-Subfield 1 equals 01 and MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S)-Subfield 2 equals ____ [2-5], | MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S)-Subfield 3 must not be a greater number than Subfield 2 unless equal to 06, 09, or 90.            |
| VA95            | VEHICLE MODEL YEAR is less than 2000,                                                                                                      | MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S) Subfield 1 must equal 00.                                                                         |
| VA96            | VEHICLE MODEL YEAR is between 2000 and 2012 and MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S)-Subfield 1 equals 01,                            | MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S)-Subfield 2 must equal 01.                                                                         |
| VA97            | MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S)-Subfield 2 equals 1,                                                                             | MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S)-Subfield 3 must equal 1, 09, 90.                                                                  |



| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>THEN</b>                                                         |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| VA98            | <b><i>vPIC BODY CLASS equals 006 (Motorcycle - Standard), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring / Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 109 (Motorcycle - Cross Country), or 125 (Motorcycle - Unknown Body Type), and VEHICLE MODEL YEAR is less than 2021,</i></b>                                                                                                                                                                                                                                                                                                                                                                                           | MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S) Subfield 1 must equal 00. |
| VA99            | <b><i>vPIC BODY CLASS equals 04 (Low Speed Vehicle (LSV) / Neighborhood Electric Vehicle (NEV)), 012 (Motorcycle - Scooter), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 088 (Off-road Vehicle - Go Kart), 097 (Off-road Vehicle - Snowmobile), 104 (Moped), 105 (Off-road Vehicle - Recreational Off-Road Vehicle (ROV)), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 124 (Off-road Vehicle - Golf Cart), 126 (Off-road Vehicle - Farm Equipment), 127 (Off-road Vehicle - Construction Equipment), 996 (Motorized Bicycle), or 997 (Other),</i></b> | MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S) Subfield 1 must equal 00. |

## V41 - Related Factors - Vehicle Level

**FORMAT:** 3 numeric. Select All That Apply.

**SAS NAME:** VehicleSF.VEHICLESF, PVehicleSF.PVEHICLESF

**ELEMENT VALUES:**

| Codes | Attributes           |
|-------|----------------------|
| 000   | <a href="#">None</a> |

### Special Vehicle Flags:

| Codes | Attributes                                                                                                                       |
|-------|----------------------------------------------------------------------------------------------------------------------------------|
| 030   | <a href="#">Multi-Wheeled Motorcycle Conversion</a>                                                                              |
| *032  | <a href="#">Vehicle Registration for Handicapped</a>                                                                             |
| 033   | <a href="#">Vehicle Being Pushed by Non-Motorist</a>                                                                             |
| 035   | <a href="#">Reconstructed/Altered Vehicle</a>                                                                                    |
| *037  | <a href="#">Transporting Children to/from Head Start/Day Care</a>                                                                |
| 039   | <a href="#">Highway Construction, Maintenance, or Utility Vehicle, In-Transport (Inside or Outside Work Zone)</a>                |
| 041   | <a href="#">Police, Fire, or EMS Vehicle Working at the Scene of an Emergency or Performing Other Traffic Control Activities</a> |
| 042   | <a href="#">Other Working Vehicle (Not Construction, Maintenance, Utility, Police, Fire, or EMS Vehicle)</a>                     |
| 044   | <a href="#">Adaptive Equipment</a>                                                                                               |
| 045   | <a href="#">Slide-in Camper</a>                                                                                                  |
| 029   | <a href="#">Default Code Used for Vehicle Numbering</a>                                                                          |
| 999   | <a href="#">Reported as Unknown</a>                                                                                              |

### \*FARS ONLY ATTRIBUTES

**Definition:** This element identifies factors related to this vehicle expressed in the case material.

**Remarks:** Code information provided in the case material.

*Attributes 029-045 are flags used to identify this vehicle as one with special circumstances. They do not necessarily imply that this circumstance caused the crash.* RELATED FACTORS-DRIVER LEVEL [024 \(Operating Without Required Equipment\)](#) can be coded in conjunction with vehicle level conditions.

**000 (None)** is used when no applicable related factors are noted in the case material.

**030 (Multi-Wheeled Motorcycle Conversion)** is used when the case material identifies this vehicle is a motorcycle that is converted to a multi-wheeled configuration from a 2-wheeled *Original Equipment Manufacturer* (OEM) motorcycle. These vehicles will **not** have a NCSA BODY TYPE attribute [82 \(Three-Wheeled Motorcycle \[2 Rear Wheels\]\)](#).

**\*032 (Vehicle Registration for Handicapped)** is used when the case material identifies this vehicle is registered and/or specially equipped for a **person with a disability**. This information can be derived from the vehicle registration. This excludes placards that are usually hung from the rear-view mirror and can be moved from one vehicle to the other.

**033 (Vehicle Being Pushed by Non-Motorist)** is used when the case material identifies this vehicle is being pushed by a non-motorist with or without a driver at the controls.

**045 (Slide-in Camper)** A slide-in camper is a unit that mounts within a pickup bed. Pickup bed caps, tonneau covers, or frame mounted campers are not applicable for this code.

**035 (Reconstructed/Altered Vehicle)** is used when the case material identifies this vehicle is a home-made vehicle constructed from vehicle components or is significantly altered in some way. These vehicles may have a standard VIN, or the State may issue a number in place of the VIN for their registration.

**Examples include:**

- The addition of enhanced performance engine chips or accessories.
- Significant altering of suspension system (“monster trucks,” “low riders,” etc.).
- Hydraulic systems or tilted/canted wheels.

**\*037 (Transporting Children to/from Head Start/Day Care)** is used when the case material identifies this vehicle is used to transport children to Day Care/Head Start in vehicles arranged, operated, or owned by a Head Start or Day Care Program. This attribute is not intended for children being transported to daycare by family/friends in personal vehicles.

**039 (Highway Construction, Maintenance, or Utility Vehicle, In-Transport [Inside or Outside Work Zone])** is used when the case material identifies this vehicle is a highway construction, maintenance, or utility vehicle that is in-transport at the time it became involved in the crash. **Note:** This is **only** used when the vehicle is considered to **not** be a working motor vehicle and is “**in-transport**.” For example, while moving from one job site to another job site or returning to the depot after concluding work activities. This attribute refers to vehicles owned by a local, county, State, or Federal agency. Private vehicles are excluded.

**041 (Police, Fire, or EMS Vehicle Working at the Scene of an Emergency or Performing Other Traffic Control Activities)** is used when the case material identifies this vehicle is a police car, fire truck, or ambulance performing some work function related to working at the scene of an emergency or acting as traffic control.

**Examples include:**

- Police car, fire truck, or ambulance at the scene of a crash.
- Fire truck at the scene of a fire.
- Police car leading or trailing a convoy for a funeral.
- Police car blocking the entrance to a parade route.
- Police car at a check point.

**042 (Other Working Vehicle (Not Construction, Maintenance, Utility, Police, Fire, or EMS Vehicle))** is used when the case material identifies this vehicle is performing some other work activity at the time it was involved in the crash and that activity is somehow associated with the crash.

**Examples include:**

- Garbage truck picking up trash.
- Personal pickup with a snow blade plowing.
- UPS or postal vehicle stopped in the roadway while making a delivery.
- Food delivery truck making a delivery.

**044 (Adaptive Equipment)** is used when the case material identifies this vehicle is equipped with adaptive equipment for operator(s) ***with a disability***.

**Examples include:**

- Extended brake/gas pedals.
- Special steering apparatus.
- Hand brakes or accelerator, etc.

**029 (Default Code Used for Vehicle Numbering)** is used when debris is set in motion as the result of a vehicle-to-vehicle collision and subsequently produces a harmful event for this vehicle and it cannot be determined from the case material that vehicle's debris hit this vehicle. See guidance under [AREAS OF IMPACT - INITIAL CONTACT POINT/DAMAGED AREAS](#).

**999 (Reported as Unknown)** is used when "unknown" is reported for the vehicle condition in the police crash report itself and none of the ***other attributes apply***.

Consistency Checks [\(See Section 400\)](#):

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>THEN</b>                                                  |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| 1D2P            | SPECIAL USE equals 12 or 21,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | at least one RELATED FACTORS - VEHICLE LEVEL must equal 042. |
| 1G0P            | <i>any</i> RELATED FACTORS-VEHICLE LEVEL equals 000 or 999,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <i>only that one code and no other must be coded.</i>        |
| 1Z2P            | any SEQUENCE OF EVENTS equals 01, <i>and vPIC BODY CLASS does not equal 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 104 (Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle), or any</i> RELATED FACTORS-VEHICLE LEVEL equals 030, | ROLLOVER must equal 1, 2, or 9.                              |
| 4G0P            | A RELATED FACTORS-VEHICLE LEVEL between 030 and 045 can be used only once per vehicle form.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | --                                                           |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5A0P            | <b>vPIC BODY CLASS equals 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 104 (Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle), and any RELATED FACTORS - VEHICLE LEVEL does not equal 030,</b> | ROLLOVER must equal 0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 6G0Q            | any RELATED FACTORS - VEHICLE LEVEL equals 030,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>vPIC BODY CLASS must equal 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 104 (Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle) for this vehicle.</b> |
| 9C1P            | UNIT TYPE equals 4,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | RELATED FACTORS-VEHICLE LEVEL must not equal 039.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                       | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                             |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| V031            | RELATED FACTORS-VEHICLE LEVEL equals 039,                                                                                                                                                       | <b><i>vPIC BODY CLASS should equal 011 (Truck), 060 (Pickup), 66 (Truck-Tractor), 095 (Cargo Van), 111 (Step Van / Walk-in Van), 127 (Off-road Vehicle - Construction Equipment), or 997 (Other), or FINAL STAGE BODY CLASS should equal 011 (Truck), 060 (Pickup), 66 (Truck-Tractor), 095 (Cargo Van), 111 (Step Van/Walk-in Van), or 997 (Other (Specify:)).</i></b> |
| V033            | RELATED FACTORS-VEHICLE LEVEL equals 045,                                                                                                                                                       | <b><i>vPIC BODY CLASS must equal 060 (Pickup), or FINAL STAGE BODY CLASS must equal 060 (Pickup).</i></b>                                                                                                                                                                                                                                                               |
| V594            | RELATED FACTORS - VEHICLE LEVEL equals 029,                                                                                                                                                     | NUMBER OF VEHICLE FORMS SUBMITTED must be greater than 002.                                                                                                                                                                                                                                                                                                             |
| V595            | RELATED FACTORS - VEHICLE LEVEL equals 029 for this vehicle,                                                                                                                                    | at least one other vehicle in the crash must have an AREA OF IMPACT equal to 18, 19, or 20 associated with an event involving this vehicle in the crash events table.                                                                                                                                                                                                   |
| VH06            | <b><i>vPIC BODY CLASS equals 083 (Motorcycle - Trike), 100 (Motorcycle - Enclosed Three Wheeled / Enclosed Autocycle), or 103 (Motorcycle - Unenclosed Three Wheeled / Open Autocycle),</i></b> | RELATED FACTORS-VEHICLE LEVEL must not equal 030.                                                                                                                                                                                                                                                                                                                       |

**Consistency Checks (FARS Only) ([See Section 400](#)):**

| <b>Error ID</b> | <b>IF</b>                                 | <b>THEN</b>                                  |
|-----------------|-------------------------------------------|----------------------------------------------|
| 6G0P            | RELATED FACTORS-VEHICLE LEVEL equals 032, | REGISTRATION STATE must not equal 00, 92.    |
| AS0P            | RELATED FACTORS-VEHICLE LEVEL equals 032, | REGISTERED VEHICLE OWNER must not equal 0.   |
| V590            | RELATED FACTORS-VEHICLE LEVEL equals 032, | REGISTERED VEHICLE OWNER should equal 1-3.   |
| V592            | RELATED FACTORS-VEHICLE LEVEL equals 037, | REGISTRATION STATE should not equal 00, 92.  |
| V593            | RELATED FACTORS-VEHICLE LEVEL equals 037, | REGISTERED VEHICLE OWNER should not equal 0. |

## Driver Level Data Elements

[D1 - State Number - FARS Only](#)

[D2 - Consecutive Number - FARS Only](#)

[D3 - Vehicle Number - Driver Level](#)

[D4 - Driver Presence](#)

[D5 - Driver's License State - FARS Only](#)

[D6 - Driver's ZIP Code](#)

[D7 - Non-CDL License Type/Status - FARS Only](#)

[D8 - Commercial Motor Vehicle License Status - FARS Only](#)

[D9 - Compliance with CDL Endorsements - FARS Only](#)

[D10 - License Compliance with Class of Vehicle - FARS Only](#)

[D11 - Compliance with License Restrictions - FARS Only](#)

[D12 - Driver Height - FARS Only](#)

[D13 - Driver Weight - FARS Only](#)

[D14, D15, D16, D17, D18 - Driver Level Counters - FARS Only](#)

[D19, D20 - Date of \*\*Oldest\*\* and \*\*Most Recent\*\* Crash, Suspension, Conviction - FARS Only](#)

[D21 - Violations Charged](#)

[D22 - Speeding Related](#)

[D23 - Condition \(Impairment\) at Time of Crash](#)

[D24 - Related Factors - Driver Level](#)



### D3 - Vehicle Number - Driver Level

**FORMAT:** 3 numeric

**SAS NAME:** Vehicle.VEH\_NO

**ELEMENT VALUES:**

| Codes   | Attributes      |
|---------|-----------------|
| 000-999 | Assigned Number |

**Definition:** This element identifies the vehicle number associated with this driver.

**Remarks:**

- Must be coded on an original submission
- System-Generated (**RBIS** Only)
- See [Vehicle Number-Vehicle Level](#) for assignments numbers.
- FOR DRIVERLESS, PARKED/STOPPED OFF ROADWAY/WORKING MOTOR VEHICLES, AND MOTOR VEHICLES IN MOTION OUTSIDE THE TRAFFICWAY, ONLY CODE [DRIVER PRESENCE](#) AND [RELATED FACTORS-DRIVER LEVEL](#).

**Consistency Check** [\(See Section 400\)](#):

| <b>Error ID</b> | <b>Error Message</b>                                                                  |
|-----------------|---------------------------------------------------------------------------------------|
| CSI2            | There must be exactly one DRIVER LEVEL FORM corresponding to each VEHICLE LEVEL FORM. |

## D4 - Driver Presence

**FORMAT:** 1 numeric

**SAS NAME:** Vehicle.DR\_PRES

**ELEMENT VALUES:**

| Codes | Attributes                                       |
|-------|--------------------------------------------------|
| 0     | <a href="#">No Driver Present/Not Applicable</a> |
| 1     | <a href="#">Yes</a>                              |
| 9     | <a href="#">Unknown</a>                          |

**Definition:** This element identifies whether or not a driver was present in this vehicle at the onset of the unstabilized situation.

### Remarks:

**0 (No Driver Present/Not Applicable)** is used when there is no person who was controlling this vehicle at the time of the crash.

Also, use **0 (No Driver Present/Not Applicable)** when [UNIT TYPE](#) for this vehicle is not a motor vehicle in-transport ([UNIT TYPE](#) attributes “2, 3, 4”). Use this attribute regardless of the presence of an occupant in the driver’s seat.

**1 (Yes)** is used when there is a person who is physically controlling the vehicle at the onset of the unstabilized situation for this crash. Do not use this attribute for a child sitting in the driver’s seat unless the case material indicate the child was in control of the vehicle. Hit-and-run drivers are included in this attribute. A driver under medical distress would be included. This attribute includes when it is known there was a driver, but it is unknown which occupant was the driver at the time of the crash.

**9 (Unknown)** is used when it is unknown if there was a driver present in the vehicle at the time of the crash.

If coded **0 (No Driver Present/Not Applicable)** or **9 (Unknown)**, all other elements on the Driver Level except [RELATED FACTORS-DRIVER LEVEL](#) must be left blank. A Person Level - Occupant of a Motor Vehicle form with [PERSON TYPE](#) equal to **01 (Driver of a Motor Vehicle In-Transport)** must not be submitted for that vehicle.

If coded **0 (No Driver Present/Not Applicable)** or **9 (Unknown)**, [RELATED FACTORS-DRIVER LEVEL](#) are coded “000” unless [UNIT TYPE](#) is equal to **1 (Motor Vehicle In-Transport [Inside or Outside the Trafficway])**. In such a case, only select [RELATED FACTORS-DRIVER LEVEL](#) that are applicable.

**Consistency Checks ([See Section 400](#)):**

| <b>Error ID</b> | <b>IF</b>                                                                                                                   | <b>THEN</b>                                                                                                                                                                                                                                                            |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1H6F            | DRIVER PRESENCE equals 0, 9,                                                                                                | VIOLATIONS CHARGED must be blank.                                                                                                                                                                                                                                      |
| 1HFF            | DRIVER PRESENCE equals 0, 9,                                                                                                | SPEEDING RELATED must be blank.                                                                                                                                                                                                                                        |
| 1HJF            | DRIVER'S VISION OBSCURED BY equals 95,                                                                                      | DRIVER PRESENCE must equal 0 or 9.                                                                                                                                                                                                                                     |
| 2F0F            | NUMBER OF OCCUPANTS equals 00,                                                                                              | DRIVER PRESENCE must equal 0.                                                                                                                                                                                                                                          |
| 2H0F            | DRIVER PRESENCE equals 0, 9,                                                                                                | RELATED FACTORS-DRIVER LEVEL must not equal 004, 008, 010, 012, 013, 015, 016, 019, 052, 053, 058, 059, 073, 074, 077-088, 094-097.                                                                                                                                    |
| 2H1F            | UNIT TYPE equals 1, and DRIVER PRESENCE equals 0 or 9,                                                                      | DRIVER'S VISION OBSCURED BY must equal 95.                                                                                                                                                                                                                             |
| 3BAP            | UNIT TYPE equals 1, and DRIVER PRESENCE equals 0,                                                                           | CRASH TYPE must equal 00, 04, 09, 15, 32, 42, 48, 52, 62, 66, 74, 84, 90, 93, or 98.                                                                                                                                                                                   |
| 3BGP            | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 00,                                                      | DRIVER PRESENCE must equal 0 or 9.                                                                                                                                                                                                                                     |
| 3H0F            | DRIVER PRESENCE equals 1,                                                                                                   | there must be one and only one Person Level form for that vehicle with PERSON TYPE equal to 01, or there must be no Person Level form for that vehicle with PERSON TYPE equal to 01 and at least two Person Level forms for that vehicle with PERSON TYPE equal to 09. |
| 4H0F            | DRIVER PRESENCE equals 0, 9,                                                                                                | there must not be a Person Level form for that vehicle with PERSON TYPE equal to 01.                                                                                                                                                                                   |
| 5L0F            | RELATED FACTORS-DRIVER LEVEL equals 020,                                                                                    | DRIVER PRESENCE must not equal 1, 9.                                                                                                                                                                                                                                   |
| 5L1F            | RELATED FACTORS-DRIVER LEVEL equals 004, 008, 010, 012, 013, 015, 016, 019, 052, 053, 058, 059, 073, 074, 077-088, 094-097, | DRIVER PRESENCE must not equal 0 or 9.                                                                                                                                                                                                                                 |
| 6H0P            | DRIVER PRESENCE equals 0, 9,                                                                                                | DRIVER'S ZIP CODE must be blank.                                                                                                                                                                                                                                       |
| 6H1P            | DRIVER PRESENCE equals 0, 9,                                                                                                | CONDITION (IMPAIRMENT) AT TIME OF CRASH (D23) must be blank.                                                                                                                                                                                                           |
| 7B0F            | JACKKNIFE equals 2, 3,                                                                                                      | DRIVER PRESENCE must equal 1.                                                                                                                                                                                                                                          |
| 9A3P            | UNIT TYPE equals 2-4,                                                                                                       | DRIVER PRESENCE must equal 0.                                                                                                                                                                                                                                          |
| 9C4P            | UNIT TYPE equals 1, and DRIVER PRESENCE equals 0 or 9,                                                                      | DRIVER MANEUVERED TO AVOID must only equal 95.                                                                                                                                                                                                                         |

| <b>Error ID</b> | <b>IF</b>                                                                                                                        | <b>THEN</b>                                                                                                                                         |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| 9C5P            | DRIVER MANEUVERED TO AVOID equals 95,                                                                                            | DRIVER PRESENCE must equal 0 or 9.                                                                                                                  |
| A080            | DRIVER PRESENCE equals 0, and FIRST HARMFUL EVENT equals 12, and NUMBER OF VEHICLE FORMS SUBMITTED equals 002,                   | one RELATED FACTORS-DRIVER LEVEL should equal 020 or 054.                                                                                           |
| AZ20            | UNIT TYPE equals 1, and DRIVER PRESENCE equals 0 or 9,                                                                           | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 00.                                                                          |
| BJ1P            | UNIT TYPE equals 1, and DRIVER PRESENCE equals 0 or 9,                                                                           | DRIVER DISTRACTED BY must equal 16.                                                                                                                 |
| BJ2P            | UNIT TYPE equals 1, and DRIVER PRESENCE equals 1,                                                                                | DRIVER DISTRACTED BY must not equal 16 or blank.                                                                                                    |
| BJ3P            | UNIT TYPE equals 1, and DRIVER DISTRACTED BY equals 16,                                                                          | DRIVER PRESENCE must equal 0 or 9.                                                                                                                  |
| BJ5P            | If UNIT TYPE equals 1 and HIT AND RUN equals 1,                                                                                  | then DRIVER PRESENCE should not equal 0.                                                                                                            |
| FD0F            | DRIVER PRESENCE is blank,                                                                                                        | case status is flawed.                                                                                                                              |
| PB30            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 220,                                                                     | at least one DRIVER PRESENCE must equal 0 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST. |
| PB60            | PERSON TYPE equals 05, <b>11, 12, or 13</b> , and DRIVER PRESENCE equals 0 for the motor vehicle which strikes the non-motorist, | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN should equal 220.                                                                                  |
| PB61            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 220,                                                                     | DRIVER PRESENCE should equal 0 for the motor vehicle striking the non-motorist.                                                                     |

**Consistency Checks (FARS Only) ([See Section 400](#)):**

| <b>Error ID</b> | <b>IF</b>                                                                    | <b>THEN</b>                                                                         |
|-----------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1H0F            | DRIVER PRESENCE equals 0, 9,                                                 | PREVIOUS SPEEDING CONVICTIONS must be blank.                                        |
| 1H1F            | DRIVER PRESENCE equals 0, 9,                                                 | DRIVER'S LICENSE STATE must be blank.                                               |
| 1H2F            | DRIVER PRESENCE equals 0, 9,                                                 | LICENSE COMPLIANCE WITH CLASS OF VEHICLE must be blank.                             |
| 1H3F            | DRIVER PRESENCE equals 0, 9,                                                 | NON-CDL LICENSE STATUS and COMMERCIAL MOTOR VEHICLE LICENSE STATUS must be blank.   |
| 1H4F            | DRIVER PRESENCE equals 0, 9,                                                 | COMPLIANCE WITH LICENSE RESTRICTIONS must be blank.                                 |
| 1H7F            | DRIVER PRESENCE equals 0, 9,                                                 | PREVIOUS RECORDED CRASHES must be blank.                                            |
| 1H8F            | DRIVER PRESENCE equals 0, 9,                                                 | all three Subfields of PREVIOUS RECORDED SUSPENSIONS AND REVOCATIONS must be blank. |
| 1H9F            | DRIVER PRESENCE equals 0, 9,                                                 | PREVIOUS DWI CONVICTIONS must be blank.                                             |
| 1HAF            | DRIVER PRESENCE equals 0, 9,                                                 | PREVIOUS OTHER MOVING VIOLATION CONVICTIONS must be blank.                          |
| 1HBF            | DRIVER PRESENCE equals 0, 9,                                                 | DATE OF <b>MOST RECENT</b> CRASH, SUSPENSION, CONVICTION must be blank.             |
| 1HCF            | DRIVER PRESENCE equals 0, 9,                                                 | DATE OF <b>OLDEST</b> CRASH, SUSPENSION, CONVICTION must be blank.                  |
| 1HDF            | DRIVER PRESENCE equals 0, 9,                                                 | DRIVER HEIGHT (feet and inches) must equal blank.                                   |
| 1HEF            | DRIVER PRESENCE equals 0, 9,                                                 | DRIVER WEIGHT must equal blank.                                                     |
| BJ0P            | DRIVER PRESENCE equals 0, 9,                                                 | COMPLIANCE WITH LICENSE ENDORSEMENTS must be blank.                                 |
| BN0P            | DRIVER PRESENCE equals 0, 9,                                                 | COMMERCIAL MOTOR VEHICLE LICENSE STATUS must be blank.                              |
| CB0P            | REGISTERED VEHICLE OWNER equals 6,                                           | DRIVER PRESENCE must equal 0.                                                       |
| D330            | DRIVER PRESENCE equals 0, and REGISTRATION STATE is not equal to 00, 92, 99, | REGISTERED VEHICLE OWNER should equal 3-6.                                          |

## D5 - Driver's License State - FARS Only

**FORMAT:** 2 numeric

**SAS NAME:** Vehicle.L\_STATE

### ELEMENT VALUES:

| Codes | Attributes           |
|-------|----------------------|
| 01    | Alabama              |
| 02    | Alaska               |
| 03    | American Samoa       |
| 04    | Arizona              |
| 05    | Arkansas             |
| 06    | California           |
| 08    | Colorado             |
| 09    | Connecticut          |
| 10    | Delaware             |
| 11    | District of Columbia |
| 12    | Florida              |
| 13    | Georgia              |
| 14    | Guam                 |
| 15    | Hawaii               |
| 16    | Idaho                |
| 17    | Illinois             |
| 18    | Indiana              |
| 19    | Iowa                 |
| 20    | Kansas               |
| 21    | Kentucky             |
| 22    | Louisiana            |
| 23    | Maine                |
| 24    | Maryland             |
| 25    | Massachusetts        |
| 26    | Michigan             |
| 27    | Minnesota            |
| 28    | Mississippi          |
| 29    | Missouri             |
| 30    | Montana              |
| 31    | Nebraska             |
| 32    | Nevada               |
|       |                      |

| Codes | Attributes                                |
|-------|-------------------------------------------|
| 33    | New Hampshire                             |
| 34    | New Jersey                                |
| 35    | New Mexico                                |
| 36    | New York                                  |
| 37    | North Carolina                            |
| 38    | North Dakota                              |
| 39    | Ohio                                      |
| 40    | Oklahoma                                  |
| 41    | Oregon                                    |
| 42    | Pennsylvania                              |
| 43    | Puerto Rico                               |
| 44    | Rhode Island                              |
| 45    | South Carolina                            |
| 46    | South Dakota                              |
| 47    | Tennessee                                 |
| 48    | Texas                                     |
| 49    | Utah                                      |
| 50    | Vermont                                   |
| 51    | Virginia                                  |
| 52    | Virgin Islands                            |
| 53    | Washington                                |
| 54    | West Virginia                             |
| 55    | Wisconsin                                 |
| 56    | Wyoming                                   |
| 57    | <a href="#">Other US Driver's License</a> |
| 93    | Indian Nation                             |
| 94    | US Government                             |
| 95    | Canada                                    |
| 96    | Mexico                                    |
| 97    | Other Foreign Country                     |
| 98    | <a href="#">Not Reported</a>              |
| 99    | Reported as Unknown                       |

**Definition:** This element identifies the State of issue for the license held by this driver.

**Remarks:** If no license is required or driver is not licensed, use the resident State of the driver. U.S. Government is used to indicate the license was issued by the U.S. Government, such as military or State Department Foreign Service.

**57 (Other US Driver's License)** is used for U.S. Territories not identified by their own attribute (Other U.S. Territories, or U.S.-owned outlying areas such as Northern Marianas Islands, Wake Islands, etc.).

**98 (Not Reported) Check to see if 99 (Reported as Unknown) is more appropriate for the situation.**

If a State's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported.**"

Code **98 (Not Reported)** in these two situations:

1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any FARS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

**Consistency Checks [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                                      | <b>THEN</b>                                                                                                     |
|-----------------|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| 1H1F            | DRIVER PRESENCE equals 0, 9,                   | DRIVER'S LICENSE STATE must be blank.                                                                           |
| 1I0P            | DRIVER'S LICENSE STATE equals 99,              | NON-CDL LICENSE STATUS must not equal 0-4, 6, and COMMERCIAL MOTOR VEHICLE LICENSE STATUS must not equal 00-08. |
| 1K0P            | DRIVER'S LICENSE STATE equals 99,              | LICENSE COMPLIANCE WITH CLASS OF VEHICLE must not equal 0-3.                                                    |
| 2I0P            | DRIVER'S LICENSE STATE equals 99,              | COMPLIANCE WITH LICENSE RESTRICTIONS must not equal 0-3.                                                        |
| 3I2P            | DRIVER'S LICENSE STATE equals 98, 99,          | all driver history counters must equal 99.                                                                      |
| BI0P            | DRIVER'S LICENSE STATE equals 99,              | COMPLIANCE WITH CDL ENDORSEMENTS must not equal 1, 2.                                                           |
| CJ00            | PREVIOUS RECORDED CRASHES equals 98,           | DRIVER'S LICENSE STATE should equal 09, 13, 28, 30, 35, 49.                                                     |
| CJ01            | any driver history counter is not equal to 99, | DRIVER'S LICENSE STATE must not be 96, 97, 98, or 99.                                                           |
| D010            | DRIVER'S LICENSE STATE equals 96, 97,          | PREVIOUS RECORDED CRASHES should equal 99.                                                                      |
| D020            | DRIVER'S LICENSE STATE equals 96, 97,          | all three Subfields of PREVIOUS RECORDED SUSPENSIONS AND REVOCATIONS should equal 99.                           |
| D030            | DRIVER'S LICENSE STATE equals 96, 97,          | PREVIOUS DWI CONVICTIONS should equal 99.                                                                       |

| <b>Error ID</b> | <b>IF</b>                                                                   | <b>THEN</b>                                                                                             |
|-----------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| D040            | DRIVER'S LICENSE STATE equals 96, 97,                                       | PREVIOUS SPEEDING CONVICTIONS should equal 99.                                                          |
| D050            | DRIVER'S LICENSE STATE equals 96, 97,                                       | PREVIOUS OTHER MOVING VIOLATION CONVICTIONS should equal 99.                                            |
| D170            | DRIVER'S LICENSE STATE does not equal 93-99,                                | DRIVER'S ZIP CODE should not equal <b>99998</b> <i>or</i> 99999.                                        |
| D180            | DRIVER LICENSE STATE equals 95- 97,                                         | DRIVER ZIP CODE should equal <b>00000</b> .                                                             |
| D320            | DRIVER'S LICENSE STATE does not equal 93-99,                                | DRIVER'S ZIP CODE should equal <b>99998</b> , 99999, or be a valid ZIP code for DRIVER'S LICENSE STATE. |
| D480            | DRIVER'S LICENSE STATE equals 09, 28, 30, 35, 49,                           | PREVIOUS RECORDED CRASHES should equal 98.                                                              |
| D710            | DRIVER'S LICENSE STATE equals 02, 04, 09, 15, 20, 30, 38, 40,               | NON-CDL LICENSE TYPE should not equal 2.                                                                |
| U410            | UNLIKELY: DRIVER'S LICENSE STATE equals 98 if HIT AND RUN does not equal 1. | --                                                                                                      |



## D6 - Driver's ZIP Code

**FORMAT:** 5 numeric

**SAS NAME:** Vehicle.DR\_Zip

**ELEMENT VALUES:**

| Codes | Attributes                                          |
|-------|-----------------------------------------------------|
| 00000 | <a href="#">Not a Resident of US or Territories</a> |
| nnnnn | Actual Value                                        |
| 99998 | <a href="#">Not Reported</a>                        |
| 99999 | <a href="#">Reported as Unknown</a>                 |

**Definition:** This element identifies the ZIP Code of this driver's area of residence.

**Remarks:** Code only the first five digits of nine-digit ZIP Codes.

**00000 (Not Resident of US or Territories)** is used when the address found in the case material indicates that the driver resides at an address that has not been assigned a ZIP Code by the U.S. Post Office.

**99998 (Not Reported)** Check to see if 99999 (Reported as Unknown) is more appropriate for the situation.

*If a State's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "Not Reported."*

*Code 99998 (Not Reported) in these two situations:*

- 1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).*
- 2. A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any FARS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).*

**99999 (Reported as Unknown)** is used *when the officer indicates the driver's ZIP Code is unknown*. For example, use this attribute when no information is provided on the police crash report about the driver (e.g., hit-and-run). In addition, use this code if the driver, licensed or not, has no permanent address. For example, the driver could be living out of his/her vehicle (camper, motor home, etc.), or the driver could be "homeless."

If a ZIP Code is listed on the police crash report but it is not a valid number use attribute [99998 \(Not Reported\)](#).

### FARS SPECIAL INSTRUCTION:

Use the following guidelines to resolve discrepancies between the police crash report and Driver License File:

- If the street address is the same on both sources but the ZIP Codes differ, use the ZIP Code from the License File.
- If you have internet access available, you may use the [USPS ZIP Code Look Up website](#) to confirm you have the correct address.
- If the street addresses on the two sources differ, then use the ZIP Code for the address reported on the police crash report.
- If you have both a residence address and a different mailing address (e.g., a P.O. Box) use the ZIP Code for the residence address.

If the police crash report indicates an address in-State and a driver's license from another State is recorded (with a different residence address), attempt to determine the most current address for the driver. If the most current address cannot be determined, use the ZIP Code that corresponds to the address from the [DRIVER'S LICENSE STATE](#).

### CRSS SPECIAL INSTRUCTION:

For the purposes of this variable, a driver is considered to reside at the address listed on the police crash report. This address was most likely taken from the driver's license given to the police officer and/or from the licensing State's driver license file.

If the driver's address is present and the ZIP Code is missing or not available, then determine the correct ZIP Code by using the [USPS ZIP Code Look Up website](#).

### Consistency Checks ([See Section 400](#)):

| Error ID | IF                                                                              | THEN                             |
|----------|---------------------------------------------------------------------------------|----------------------------------|
| 6H0P     | DRIVER PRESENCE equals 0, 9,                                                    | DRIVER'S ZIP CODE must be blank. |
| BY0P     | DRIVER'S ZIP CODE must be a valid code, blanks, 00000, <b>99998</b> , or 99999. | --                               |

### Consistency Checks (FARS Only) ([See Section 400](#)):

| Error ID | IF                                                                                                     | THEN                                                       |
|----------|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| D160     | NON-CDL LICENSE STATUS does not equal 9, or COMMERCIAL MOTOR VEHICLE LICENSE STATUS does not equal 99, | DRIVER'S ZIP CODE should not equal <b>99998 or 99999</b> . |
| D170     | DRIVER'S LICENSE STATE does not equal 93-99,                                                           | DRIVER'S ZIP CODE should not equal <b>99998 or 99999</b> . |
| D180     | DRIVER LICENSE STATE equals 95-97,                                                                     | DRIVER ZIP CODE should equal <b>00000</b> .                |

| <b>Error ID</b> | <b>IF</b>                                    | <b>THEN</b>                                                                                             |
|-----------------|----------------------------------------------|---------------------------------------------------------------------------------------------------------|
| D320            | DRIVER'S LICENSE STATE does not equal 93-99, | DRIVER'S ZIP CODE should equal <b>99998</b> , 99999, or be a valid ZIP code for DRIVER'S LICENSE STATE. |

## D7 - Non-CDL License Type / Status - FARS Only

**FORMAT:** 1 numeric occurring 2 times.

**SAS NAME:** Vehicle.L\_TYPE, Vehicle.L\_STATUS

**ELEMENT VALUES:**

### Type

| Codes | Attributes                                  |
|-------|---------------------------------------------|
| 0     | <a href="#">Not Licensed</a>                |
| 1     | <a href="#">Full Driver License</a>         |
| 2     | <a href="#">Intermediate Driver License</a> |
| 7     | <a href="#">Learner's Permit</a>            |
| 8     | <a href="#">Temporary License</a>           |
| 9     | <a href="#">Unknown License Type</a>        |

### Status

| Codes | Attributes                             |
|-------|----------------------------------------|
| 0     | <a href="#">Not Licensed</a>           |
| 1     | <a href="#">Suspended</a>              |
| 2     | <a href="#">Revoked</a>                |
| 3     | <a href="#">Expired</a>                |
| 4     | <a href="#">Canceled or Denied</a>     |
| 6     | <a href="#">Valid</a>                  |
| 9     | <a href="#">Unknown License Status</a> |

**Definition:** This element identifies in two subfields the type of license held by this driver and the status of the license at the time of the crash.

**Source:** Official driver record and police report. Official driver records take precedence over police-reported information.

### **Remarks:**

This element is used to establish the driver's license type and status for all license classes except the commercial driver's license (CDL). It also captures the type and status of the NON-CDL driving privilege for drivers with CDLs.

The NON-CDL LICENSE TYPE/STATUS is coded for all drivers, including drivers with a CDL.

Use the “[TYPE](#)” field to record whether the driver has a full driver’s license, intermediate driver’s license, learner’s permit, temporary license, or is not licensed. Use the “[STATUS](#)” field to record if the license is valid, suspended, revoked, expired, canceled, or denied.

#### **Note About Involved Drivers in the Military:**

When involved drivers are in the military, the analyst should be cautious because some States automatically (without driver application) renew drivers’ licenses or extend the license until the individual is discharged. Each State analyst should be familiar with their State’s policy on military personnel and code these license variables accordingly. In addition, when out-of-State driver requests are made, the analyst requesting the data should note that the driver is in the military.

**0 (Not Licensed) (for both Type and Status).** **0 (Not Licensed)** should be used only when it has been reasonably established that the driver is not licensed (anywhere). Takes precedence over all other NON-CDL License Type/Status attributes. Drivers who have a license but fail to have their license with them at the time of the crash should be coded according to the type (class) of license they possess and the validity of the license. If the police report indicates that the driver has “no license,” the analyst should first determine whether this means that the person was not in possession of his/her license at the time of the crash, or that the driver is not a registered motor vehicle operator. A review of the violations cited section of the police report may yield some clues in this matter. If the person is cited for not possessing his/her license or for not having one, then code this information *in* [VIOLATIONS CHARGED](#). *If* the analyst is uncertain as to whether or not the person possesses a license, then code [9 \(Unknown License Type\)](#) should be used.

#### ***Non-CDL License Type Remarks:***

**1 (Full Driver License)** is used for unlimited driving privileges (with no GDL restrictions). This is based on your State’s eligibility guidelines.

**7 (Learner’s Permit)** and **2 (Intermediate Driver License)** are the first two stages of a tiered licensing process that allows young drivers to obtain full driver license privileges through safe driving practices. Typical restrictions include minimum age requirements, passing vision/knowledge tests, and supervision by an adult driver over the age of 21. Other requirements may include limiting the number of passengers in the vehicle, occupants must wear seatbelts, zero alcohol tolerance, and no at-fault crashes or convictions for a period of time.

**NOTE:** If **7 (Learner’s Permit)** or **2 (Intermediate Driver License)** has expired, code Type as **2 (Intermediate Driver License)** or **7 (Learner’s Permit)** and Status as **3 (Expired)**.

**NOTE:** It is important that you know your State’s graduated driver license (GDL) restrictions. GDL program restrictions vary from State-to-State.

**2 (Intermediate Driver License)** is the second stage of obtaining a full license privilege. It is typically for drivers between the ages of 16 and 17 and does not require total supervision during daylight hours (e.g., adult supervision during the hours of midnight to 5 am). A **2 (Intermediate Driver License)** may be suspended or revoked under certain violations. Other conditions may include conviction-free performance, seatbelt use for occupants, and some age restrictions for passengers. If any restriction is violated, this GDL restriction period can be extended.

**NOTE: 2 (Intermediate Driver License)** does not apply for States that do not have a GDL program. However, your State may have a Learner's Permit. Also, your State may not use the name "Intermediate Driver License" and may call it something else.

**NOTE: 7 (Learner's Permit)** is the first stage of obtaining a full license privilege. It is typically for drivers between 14 and 16 years old, and typically requires total adult supervision, seatbelt use for occupants, and conviction-free performance. If any restriction is violated, this GDL restriction period can be extended.

**8 (Temporary License)** includes any type of non-permanent license issued for a period of time less than that for a permanent license (e.g., temporary license to drive within a resort area, temporary license issued to foreign nationals). Short-term permanent licenses are not temporary (e.g., license issued to elderly drivers requiring frequent re-testing).

**7 (Learner's Permit)** and **2 (Intermediate Driver License)** held by young drivers awaiting a **1 (Full Driver's License)** are not to be coded **8 (Temporary License)**.

**9 (Unknown License Type)** should be used when the type of the license is unknown. **9 (Unknown License Type)** is also used when it is unknown whether the driver had a license or not (e.g., hit-and-run).

#### ***Non-CDL License Status Remarks:***

**0 (Not Licensed)** should be used only when it has been reasonably established that the driver is not registered (anywhere). **0 (Not Licensed)** takes precedence over all other Non-CDL License Status attributes. Drivers who have a license but fail to have their license with them at the time of the crash should be coded according to the type (class) of license they possess and the validity of the license. If the police report indicates that the driver has "no license," the analyst should first determine whether this means that the person was not in possession of his/her license at the time of the crash, or that the driver is not a registered motor vehicle operator. A review of the violations cited section of the police report may yield some clues in this matter. If the person is cited for not possessing his/her license or for not having one, then code this information ***in VIOLATIONS CHARGED***. If the analyst is uncertain as to whether or not the person possesses a license, then code ***9 (Unknown)*** should be used.

**1 (Suspended)**, **2 (Revoked)**, or **3 (Expired)** are used if a **1 (Full Driver License)** \* is suspended, revoked, or expired. A **2 (Intermediate Driver License)** may be **1 (Suspended)** or **2 (Revoked)** under certain violations. If **7 (Learner's Permit)** or **2 (Intermediate Driver License)** has expired, then code **3 (Expired)**.

#### ***Examples:***

If a **1 (Full Driver License)** is revoked or suspended but limited driving is permitted (e.g., to and from work), use the following criteria:

- a. If the crash occurs during permitted times of driving, code NON-CDL LICENSE TYPE as **1 (Full Driver License)** and STATUS as **6 (Valid)**, code ***COMPLIANCE WITH LICENSE RESTRICTIONS*** as **1 (Restrictions Complied with)**, and code RELATED FACTORS-DRIVER LEVEL as ***019 (Legally Driving on Suspended or Revoked License)***.

- b. If the crash occurs during invalid times for driving, code NON-CDL LICENSE TYPE as **1 (Full Driver License)** and STATUS as **1 (Suspended)** or **2 (Revoked)**, code [COMPLIANCE WITH LICENSE RESTRICTIONS](#) as **2 (Restriction Not Complied with)**, and do NOT use RELATED FACTORS-DRIVER LEVEL **019 (Legally Driving on Suspended or Revoked License)**.

**1 (Suspended)** takes precedence over all other LICENSE STATUS attributes except **0 (Not Licensed)**.

**4 (Canceled or Denied)** is used whenever the driver's official driver record indicates the driver's license\* (1) was canceled; or (2) the driver's request for license, or an extension of one, was denied.

**6 (Valid)** refers to any license held by the driver that is valid for a class of vehicle\*. If the driver is in violation of some aspect of his/her license (e.g., one of the restrictions) do not consider the license as being not valid. Record the restriction on element [COMPLIANCE WITH LICENSE RESTRICTIONS](#) if applicable. If the police cite the driver for the violation, then the information would be recorded under elements [VIOLATIONS CHARGED](#) and/or [RELATED FACTORS-DRIVER LEVEL](#).

**9 (Unknown License Status)** should be used when the status of the license is unknown. **9 (Unknown License Status)** is also used when it is unknown whether the driver had a license or not (e.g., hit-and-run).

[See Cross Reference table for coding elements D7 and D10](#), following the remarks section of element [LICENSE COMPLIANCE WITH CLASS OF VEHICLE](#).

**\* NON-CDL privilege only**

#### IMPORTANT NOTE:

In distinguishing license requirements from restrictions, focus upon whether all drivers possessing the type of license are mandated to obey the requirement or not. If they are, then the requirement is not a restriction, but rather part of the definition of the license. Restrictions, on the other hand, are requirements specific to individual drivers.

**Consistency Checks** [\(See Section 400\)](#):

| Error ID | IF                                               | THEN                                                                                                            |
|----------|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| 1H3F     | DRIVER PRESENCE equals 0, 9,                     | NON-CDL LICENSE STATUS and COMMERCIAL MOTOR VEHICLE LICENSE STATUS must be blank.                               |
| 1I0P     | DRIVER'S LICENSE STATE equals 99,                | NON-CDL LICENSE STATUS must not equal 0-4, 6, and COMMERCIAL MOTOR VEHICLE LICENSE STATUS must not equal 00-08. |
| 5I0P     | NON-CDL LICENSE STATUS equals 0,                 | COMPLIANCE WITH LICENSE RESTRICTIONS must not equal 1-3, 9.                                                     |
| 5I1P     | NON-CDL LICENSE STATUS for this person equals 9, | COMMERCIAL MOTOR VEHICLE LICENSE STATUS should equal 99.                                                        |

| <b>Error ID</b> | <b>IF</b>                                                                                                               | <b>THEN</b>                                                                                                  |
|-----------------|-------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| 6I0P            | NON-CDL LICENSE STATUS equals 9, and COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 00,                                 | COMPLIANCE WITH LICENSE RESTRICTIONS must not equal 1-3.                                                     |
| 7I0P            | COMPLIANCE WITH LICENSE RESTRICTIONS equals 1, and RELATED FACTORS-DRIVER LEVEL equals 019,                             | NON-CDL LICENSE STATUS must equal 6.                                                                         |
| 7K0P            | any VIOLATIONS CHARGED equals 71,                                                                                       | NON-CDL LICENSE STATUS must equal 0, 1, 2, or COMMERCIAL MOTOR VEHICLE LICENSE STATUS must equal 01, 02, 05. |
| 8I0P            | NON-CDL LICENSE STATUS equals 0-4, 9,                                                                                   | RELATED FACTORS-DRIVER LEVEL must not equal 019.                                                             |
| 8J0P            | NON-CDL LICENSE TYPE equals 0,                                                                                          | NON-CDL LICENSE STATUS must equal 0.                                                                         |
| 8J1P            | NON-CDL LICENSE STATUS equals 0,                                                                                        | NON-CDL LICENSE TYPE must equal 0.                                                                           |
| D060            | NON-CDL LICENSE STATUS equals 1-4, 6, or COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 1-8, and PERSON TYPE equals 01, | AGE should not be less than 015.                                                                             |
| D100            | NON-CDL LICENSE STATUS equals 9,                                                                                        | all driver history counters PREVIOUS RECORDED CRASHES should equal 99.                                       |
| D110            | NON-CDL LICENSE STATUS equals 9,                                                                                        | all driver history counters should equal 99.                                                                 |
| D120            | NON-CDL LICENSE STATUS equals 9,                                                                                        | all driver history counters PREVIOUS DWI CONVICTIONS should equal 99.                                        |
| D130            | NON-CDL LICENSE STATUS equals 9,                                                                                        | all driver history counters PREVIOUS SPEEDING CONVICTIONS should equal 99.                                   |
| D140            | NON-CDL LICENSE STATUS equals 9,                                                                                        | all driver history counters PREVIOUS OTHER MOVING VIOLATION CONVICTIONS should equal 99.                     |
| D160            | NON-CDL LICENSE STATUS does not equal 9, or COMMERCIAL MOTOR VEHICLE LICENSE STATUS does not equal 99,                  | DRIVER'S ZIP CODE should not equal <b>99998 or</b> 99999.                                                    |
| D260            | NON-CDL LICENSE STATUS equals 9, or COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 99,                                  | COMPLIANCE WITH LICENSE RESTRICTIONS should not equal 0.                                                     |
| D340            | NON-CDL LICENSE STATUS equals 1-4, 6, 9, or COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 01-08, 99,                   | LICENSE COMPLIANCE WITH CLASS OF VEHICLE should not equal 0.                                                 |
| D350            | VIOLATIONS CHARGED equals 71,                                                                                           | NON-CDL LICENSE STATUS should not equal 0, 3, 6, 9.                                                          |



| <b>Error ID</b> | <b>IF</b>                                                                            | <b>THEN</b>                                                                                      |
|-----------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| D380            | NON-CDL LICENSE STATUS equals 9,                                                     | LICENSE COMPLIANCE WITH CLASS OF VEHICLE should equal 1 or 9.                                    |
| D390            | NON-CDL LICENSE STATUS equals 0,                                                     | LICENSE COMPLIANCE WITH CLASS OF VEHICLE should not equal 2, 3, 8, 9.                            |
| D400            | NON-CDL LICENSE STATUS equals 0-4,                                                   | LICENSE COMPLIANCE WITH CLASS OF VEHICLE should not equal 3, 8, 9.                               |
| D620            | NON-CDL LICENSE TYPE equals 7,                                                       | AGE (for the driver) should equal 014-016.                                                       |
| D630            | NON-CDL LICENSE TYPE equals 2,                                                       | AGE (for the driver) should equal 015-017.                                                       |
| D640            | AGE equals 014-017, and PERSON TYPE equals 01,                                       | NON-CDL LICENSE TYPE should equal 2, 7.                                                          |
| D650            | AGE equals 018-120, and PERSON TYPE equals 01,                                       | NON-CDL LICENSE TYPE should equal 1.                                                             |
| D680            | NON-CDL LICENSE TYPE does not equal 0, 9,                                            | NON-CDL LICENSE STATUS should not equal 0, 9.                                                    |
| D690            | NON-CDL LICENSE TYPE equals 2, 7, and COMPLIANCE WITH LICENSE RESTRICTIONS equals 2, | RELATED FACTORS-DRIVER LEVEL should equal 073, 074.                                              |
| D700            | NON-CDL LICENSE TYPE equals 1, and COMPLIANCE WITH LICENSE RESTRICTIONS equals 2,    | RELATED FACTORS-DRIVER LEVEL should equal 074.                                                   |
| D710            | DRIVER'S LICENSE STATE equals 02, 04, 09, 15, 20, 30, 38, 40,                        | NON-CDL LICENSE TYPE should not equal 2.                                                         |
| D730            | RELATED FACTORS-DRIVER LEVEL equals 073,                                             | COMPLIANCE WITH LICENSE RESTRICTIONS should equal 2, and NON-CDL LICENSE TYPE should equal 2, 7. |

See the following tables for additional guidance for coding NON-CDL LICENSE TYPE/STATUS for young drivers with GDL License ([7 \(Learner's Permit\)](#) and [2 \(Intermediate Driver Licenses\)](#)) and CDL Drivers:

### Coding Scenarios for CDL Licenses

| No. | Coding Scenarios for CDL Licenses                                                                                                           | <a href="#">D7<br/>Non-<br/>CDL<br/>Type</a> | <a href="#">D7<br/>Non-<br/>CDL<br/>Status</a> | <a href="#">D8<br/>CMV<br/>Status</a> | <a href="#">D10<br/>Comp<br/>w/ Class</a> | <a href="#">D11<br/>Comp w/<br/>Restriction</a> |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------------------------------------------------|---------------------------------------|-------------------------------------------|-------------------------------------------------|
|     | CDL w/no endorsement valid, driving a CDL vehicle (no endorsement required). Non-CDL License Type/Status is Full License/Valid.             | 1                                            | 6                                              | 6                                     | 3                                         | 0                                               |
|     | CDL w/hazardous material endorsement, valid driving CDL vehicle w/hazardous cargo. Non-CDL License Type/Status is Full License/Valid.       | 1                                            | 6                                              | 6                                     | 3                                         | 1                                               |
|     | CDL w/hazardous material endorsement, valid driving non-CDL vehicle. Non-CDL License Type/Status is Full License/Valid.                     | 1                                            | 6                                              | 6                                     | 3                                         | 0                                               |
|     | CDL w/ no endorsements suspended, driving a CDL (double bottom) vehicle. Non-CDL License Type/Status is Full License/Valid.                 | 1                                            | 6                                              | 1                                     | 2                                         | 2                                               |
|     | CDL w/tanker endorsement, disqualified, driving a tanker. Non-CDL License Type/Status is Full License/Suspended.                            | 1                                            | 1                                              | 5                                     | 2                                         | 1                                               |
|     | CDL w/tanker endorsement suspended, driving a non-CDL vehicle. Non-CDL License Type/Status is Full License/Valid.                           | 1                                            | 6                                              | 1                                     | 3                                         | 0                                               |
|     | Non-CDL license driving CDL 24 passenger bus. Non-CDL License Type/Status is Full License/Valid.                                            | 1                                            | 6                                              | 0                                     | 2                                         | 2                                               |
|     | Non-CDL license driving 24 passenger bus. Non-CDL License Type/Status is Full License/Suspended.                                            | 1                                            | 1                                              | 0                                     | 2                                         | 2                                               |
|     | *CDL w/no endorsements valid, driving CDL vehicle (endorsement requirement unknown). Non-CDL License Type/Status is Full License/Suspended. | 1                                            | 1                                              | 6                                     | 8                                         | 9                                               |
|     | *CDL w/no endorsements *CDL w/tanker endorsements valid, driving non-CDL vehicle. Non-CDL License Type/Status is Full License/Suspended.    | 1                                            | 1                                              | 6                                     | 2                                         | 0                                               |
|     | *CDL w/tanker endorsements valid, driving non-CDL vehicle. Non-CDL License Type/Status is Full License/Suspended.                           | 1                                            | 1                                              | 6                                     | 2                                         | 0                                               |

\* possible, but unlikely situation

### Coding Scenarios for GDL Programs

| No. | Coding Scenarios for Graduated Driver's Licensing Program                                                                                                                         | <a href="#">Non-CDL Type</a> | <a href="#">Non-CDL Status</a> | <a href="#">Comp. w/ Restriction</a> | <a href="#">Related Factors-Driver Level</a> |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------|--------------------------------------|----------------------------------------------|
|     | A 16-year-old driver with a valid Intermediate License driving a vehicle during prohibited driving hours without corrective lenses.                                               | 2                            | 6                              | 2                                    | 73, 74                                       |
|     | A 15-year-old with a valid Learner's Permit driving alone (adult supervision required).                                                                                           | 7                            | 6                              | 2                                    | 73                                           |
|     | A 16-year-old with a valid Intermediate License not complying with seat-belt requirement during permitted daytime driving hours.                                                  | 2                            | 6                              | 2                                    | 73                                           |
|     | A 17-year-old driver with a valid Intermediate License. The officer reported there was a 19-year-old non-family passenger, in violation of the State's GDL requirements.          | 2                            | 6                              | 2                                    | 73                                           |
|     | An 18-year-old driver with an expired Learner's Permit driving with no violations of GDL restrictions.                                                                            | 7                            | 3                              | 1                                    | 00                                           |
|     | A 15-year-old with a suspended Learner's Permit is driving without required prescription lenses and is complying with all GDL restrictions.                                       | 7                            | 1                              | 2                                    | 74                                           |
|     | A driver with a suspended Intermediate Driver's License complying with all GDL restrictions.                                                                                      | 2                            | 1                              | 1                                    | 00                                           |
|     | A 19-year-old with a valid Intermediate License that was extended due to prior GDL violations is driving a truck greater than 26,000 lbs requiring a CDL during prohibited hours. | 2                            | 6                              | 2                                    | 73                                           |
|     | A driver with a valid Full Driver's License driving without required corrective lenses.                                                                                           | 1                            | 6                              | 2                                    | 74                                           |

## D8 - Commercial Motor Vehicle License Status - FARS Only

**FORMAT:** 2 numeric

**SAS NAME:** Vehicle.CDL\_STAT

**ELEMENT VALUES:**

| Codes | Attributes                                        |
|-------|---------------------------------------------------|
| 00    | No Commercial Driver's License (CDL)              |
| 01    | Suspended                                         |
| 02    | Revoked                                           |
| 03    | Expired                                           |
| 04    | Canceled or Denied                                |
| 05    | <a href="#">Disqualified</a>                      |
| 06    | <a href="#">Valid</a>                             |
| 07    | <a href="#">Commercial Learner's Permit (CLP)</a> |
| 08    | <a href="#">Other - Not Valid</a>                 |
| 99    | <a href="#">Unknown License Status</a>            |

**Definition:** This element indicates the status for a driver's CDL if applicable.

**Remarks:** This element indicates the status for a driver's CDL.

As of April 1, 1992, all States require a driver to have a CDL for driving a **commercial motor vehicle in excess of 26,000 pounds**, for transporting hazardous materials in sufficient amounts to be placarded, or for transporting 16 or more passengers, including the driver.

See the [Coding Scenarios for CDL Licenses table](#) for guidance on coding this element and related driver status elements.

**05 (Disqualified)** is used for commercial drivers who have their CDL privilege taken away for violations against the Federal regulations. Although similar to suspension, the reasons for "disqualification" of a CDL may differ from State suspension reasons.

**06 (Valid)** refers to a CDL official record status that authorizes the driver to operate a class of a commercial motor vehicle.

**07 (Commercial Learner's Permit [CLP])** means a permit issued to an individual by a State or other jurisdiction of domicile, which, when carried with a valid driver's license issued by the same State or jurisdiction, authorizes the individual to operate a class of a commercial motor vehicle for purposes of behind-the-wheel training. When issued to a CDL holder, a CLP serves as authorization for behind-the-wheel training in a CMV for which the holder's current CDL is not valid.

**08 (Other - Not Valid)** should be used when a CDL is surrendered or not valid due to the lack of medical clearance.

**99 (Unknown License Status)** should be used when the status of the CDL license is unknown or when it is unknown whether the driver had a CDL license or not (e.g., hit-and-run).

**Consistency Checks** ([See Section 400](#)):

| <b>Error ID</b> | <b>IF</b>                                                                                                               | <b>THEN</b>                                                                                                  |
|-----------------|-------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| 1H3F            | DRIVER PRESENCE equals 0, 9,                                                                                            | NON-CDL LICENSE STATUS and COMMERCIAL MOTOR VEHICLE LICENSE STATUS must be blank.                            |
| 1I0P            | DRIVER'S LICENSE STATE equals 99,                                                                                       | NON-CDL LICENSE STATUS must not equal 0-4, 6, and COMMERCIAL MOTOR VEHICLE LICENSE STATUS must not 00-08.    |
| 5I1P            | NON-CDL LICENSE STATUS for this person equals 9,                                                                        | COMMERCIAL MOTOR VEHICLE LICENSE STATUS should equal 99.                                                     |
| 6I0P            | NON-CDL LICENSE STATUS equals 9, and COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 00,                                 | COMPLIANCE WITH LICENSE RESTRICTIONS must not equal 1-3.                                                     |
| 7K0P            | any VIOLATIONS CHARGED equals 71,                                                                                       | NON-CDL LICENSE STATUS must equal 0, 1, 2, or COMMERCIAL MOTOR VEHICLE LICENSE STATUS must equal 01, 02, 05. |
| BN0P            | DRIVER PRESENCE equals 0, 9,                                                                                            | COMMERCIAL MOTOR VEHICLE LICENSE STATUS must be blank.                                                       |
| CC0P            | COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 00, 99,                                                                  | COMPLIANCE WITH CDL ENDORSEMENTS must not equal 1.                                                           |
| D060            | NON-CDL LICENSE STATUS equals 1-4, 6, or COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 1-8, and PERSON TYPE equals 01, | AGE should not be less than 015.                                                                             |
| D160            | NON-CDL LICENSE STATUS does not equal 9, or COMMERCIAL MOTOR VEHICLE LICENSE STATUS does not equal 99,                  | DRIVER'S ZIP CODE should not equal <b>99998 or 99999</b> .                                                   |
| D260            | NON-CDL LICENSE STATUS equals 9, or COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 99,                                  | COMPLIANCE WITH LICENSE RESTRICTIONS should not equal 0.                                                     |
| D270            | <b>POWER UNIT GVWR_From and POWER UNIT GVWR_To equals 17-18, or VEHICLE CONFIGURATION equals 21, or HM2 equals 2,</b>   | <b>COMMERCIAL MOTOR VEHICLE LICENSE STATUS should not equal 00.</b>                                          |
| D280            | VEHICLE CONFIGURATION equals 05-08, 21, or HM1 equals 2,                                                                | COMMERCIAL MOTOR VEHICLE LICENSE STATUS should not equal 00.                                                 |
| D300            | HM2 equals 2,                                                                                                           | COMMERCIAL MOTOR VEHICLE LICENSE STATUS should not equal 00 or 99.                                           |

| <b>Error ID</b> | <b>IF</b>                                                                                             | <b>THEN</b>                                                                                                                                              |
|-----------------|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| D340            | NON-CDL LICENSE STATUS equals 1-4, 6, 9, or COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 01-08, 99, | LICENSE COMPLIANCE WITH CLASS OF VEHICLE should not equal 0.                                                                                             |
| D420            | COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 00,                                                    | COMPLIANCE WITH CDL ENDORSEMENTS should not equal 1-3.                                                                                                   |
| D430            | COMPLIANCE WITH CDL ENDORSEMENTS equals 1-3,                                                          | COMMERCIAL MOTOR VEHICLE LICENSE STATUS should not equal 00.                                                                                             |
| D440            | COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 00,                                                    | <b><i>POWER UNIT GVWR_From and POWER UNIT GVWR_To should not be in 17-18, VEHICLE CONFIGURATION should not equal 21, and HM2 should not equal 2.</i></b> |
| D450            | COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 00,                                                    | VEHICLE CONFIGURATION should not equal 05-08, 21, and HM2 should not equal 2.                                                                            |
| D460            | COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 99,                                                    | COMPLIANCE WITH CDL ENDORSEMENTS should equal 0, 3, 9.                                                                                                   |
| V090            | HM1 equals 2,                                                                                         | COMMERCIAL MOTOR VEHICLE LICENSE STATUS should equal 06, 99.                                                                                             |
| V100            | HM1 equals 2, and RELATED FACTORS-DRIVER LEVEL does not equal 019,                                    | COMMERCIAL MOTOR VEHICLE LICENSE STATUS should not equal 01, 02, 05.                                                                                     |

## D9 - Compliance With CDL Endorsements - FARS Only

**FORMAT:** 1 numeric

**SAS NAME:** Vehicle.L\_ENDORS

**ELEMENT VALUES:**

| Codes | Attributes                                                  |
|-------|-------------------------------------------------------------|
| 0     | <a href="#">No Endorsement(s) Required for the Vehicle</a>  |
| 1     | <a href="#">Endorsement(s) Required, complied with</a>      |
| 2     | <a href="#">Endorsement(s) Required, not complied with</a>  |
| 3     | <a href="#">Endorsement(s) Required, compliance unknown</a> |
| 9     | <a href="#">Unknown, if required</a>                        |

**Definition:** This element indicates whether the vehicle driven at the time of the crash requires endorsement(s) on a CDL and whether this driver is complying with the CDL endorsements.

**Remarks:** These endorsements include double/triple bottoms, passenger vehicles with 16 passengers, tank, hazardous materials, combined tank/hazardous materials, and others. This element is to be coded independently from CDL Status. The driver is not automatically failing to comply with a CDL endorsement by not having a valid CDL. See the [Guidance on Coding This Element per License Type and Vehicle](#) section below.

**0 (No Endorsements Required for the Vehicle)** is used when this vehicle requires no special endorsement on a CDL or requires no CDL to operate.

**1 (Endorsement(s) Required, complied with)** is used when this vehicle requires a CDL and requires a particular endorsement or set of endorsements, and the driver has a CDL and is in compliance with the specific endorsements. (**Note:** The status of the CDL is not used in determining if the driver has complied with the endorsement.)

**2 (Endorsement(s) Required, not complied with)** is used when this vehicle requires a CDL and particular endorsement(s) on the CDL, but the driver does not have a CDL or does not have the particular endorsement(s) required for the vehicle driven. The driver may have some other endorsement(s). (**Note:** The status of the CDL is not used in determining if the driver has complied with the endorsement.)

**3 (Endorsement(s) Required, compliance unknown)** is used when this vehicle requires a CDL and particular endorsement(s) on the CDL, but it is not known whether the driver was in compliance with the particular endorsement(s) or it is not known whether the driver had a CDL.

**9 (Unknown, if required)** is used when it is unknown if the vehicle requires a CDL, or when it is unknown if an endorsement is required on a CDL to operate the crash vehicle. The driver may or may not have a CDL.

### ***Guidance on Coding This Element per License Type and Vehicle***

The tables below provide guidance for coding this element for the type of license and vehicle driven in the crash:

#### **Non-CDL Driver License**

| <b>VEHICLE DRIVEN IN THE CRASH</b> | <b>D9</b> |
|------------------------------------|-----------|
| Automobile                         | 0         |
| Non-CDL Truck/Bus                  | 0         |
| CDL, Not Requiring Endorsement     | 0         |
| CDL, Requiring Endorsement         | 2         |
| CDL, Unknown If Required           | 9         |

#### **CDL With No Endorsement**

| <b>VEHICLE DRIVEN IN THE CRASH</b> | <b>D9</b> |
|------------------------------------|-----------|
| Automobile                         | 0         |
| Non- CDL Truck/Bus                 | 0         |
| CDL, Not Requiring Endorsement     | 0         |
| CDL, Requiring Endorsement         | 2         |
| CDL, Unknown If Required           | 9         |

#### **CDL With Endorsement**

| <b>VEHICLE DRIVEN IN THE CRASH</b> | <b>D9</b> |
|------------------------------------|-----------|
| Automobile                         | 0         |
| Non- CDL Truck/Bus                 | 0         |
| CDL, Not Requiring Endorsement     | 0         |
| CDL, Matching Endorsement          | 1         |
| CDL, W/Different Endorsement       | 2         |
| CDL, Unknown If Required           | 9         |

#### **CDL, Endorsement Unknown**

| <b>VEHICLE DRIVEN IN THE CRASH</b> | <b>D9</b> |
|------------------------------------|-----------|
| Automobile                         | 0         |
| Non- CDL Truck/Bus                 | 0         |
| CDL, Not Requiring Endorsement     | 0         |
| CDL, Requiring Endorsement         | 3         |



| <b>VEHICLE DRIVEN IN THE CRASH</b> | <b>D9</b> |
|------------------------------------|-----------|
| CDL, Unknown If Required           | 9         |

### **CDL Unknown**

| <b>VEHICLE DRIVEN IN THE CRASH</b> | <b>D9</b> |
|------------------------------------|-----------|
| Automobile                         | 0         |
| Non- CDL Truck/Bus                 | 0         |
| CDL, Not Requiring Endorsement     | 0         |
| CDL, Requiring Endorsement         | 3         |
| CDL, Unknown If Required           | 9         |

### **Not Licensed**

| <b>VEHICLE DRIVEN IN THE CRASH</b> | <b>D9</b> |
|------------------------------------|-----------|
| Automobile                         | 0         |
| Non- CDL Truck/Bus                 | 0         |
| CDL, Not Requiring Endorsement     | 0         |
| CDL, Requiring Endorsement         | 2         |
| CDL, Unknown If Required           | 9         |

Consistency Checks [\(See Section 400\)](#):

| Error ID | IF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | THEN                                                         |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| 4S1P     | <b>vPIC BODY CLASS does equal 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport/Adventure/Supermoto/On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 100 (Motorcycle - Enclosed Three Wheeled / Enclosed Autocycle), 103 (Motorcycle - Unenclosed Three Wheeled / Open Autocycle), 104 (Moped), 105 (Off-road Vehicle - Recreational Off-Road Vehicle (ROV)), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle), and HM1 does not equal 1,</b> | COMPLIANCE WITH CDL<br>ENDORSEMENTS MUST equal 0.            |
| BI0P     | DRIVER'S LICENSE STATE equals 99,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | COMPLIANCE WITH CDL<br>ENDORSEMENTS must not equal 1, 2.     |
| BJ0P     | DRIVER PRESENCE equals 0, 9,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | COMPLIANCE WITH LICENSE<br>ENDORSEMENTS must be blank.       |
| BK0P     | LICENSE COMPLIANCE WITH CLASS OF VEHICLE equals 1,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | COMPLIANCE WITH CDL<br>ENDORSEMENTS must not equal 1-3, 9.   |
| BL0P     | COMPLIANCE WITH CDL<br>ENDORSEMENTS equals 1, and any<br>RELATED FACTORS-DRIVER LEVEL<br>equals 019,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | LICENSE COMPLIANCE WITH CLASS OF<br>VEHICLE must equal 3.    |
| CC0P     | COMMERCIAL MOTOR VEHICLE<br>LICENSE STATUS equals 00, 99,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | COMPLIANCE WITH CDL<br>ENDORSEMENTS must not equal 1.        |
| CG0P     | LICENSE COMPLIANCE WITH CLASS OF<br>VEHICLE equals 0,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | COMPLIANCE WITH CDL<br>ENDORSEMENTS must not equal 1, 3.     |
| D310     | HM2 equals 2,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | COMPLIANCE WITH CDL<br>ENDORSEMENTS should equal 1-3.        |
| D410     | LICENSE COMPLIANCE WITH CLASS OF<br>VEHICLE equals 0,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | COMPLIANCE WITH CDL<br>ENDORSEMENTS should not equal 1-3, 9. |

| <b>Error ID</b> | <b>IF</b>                                             | <b>THEN</b>                                                     |
|-----------------|-------------------------------------------------------|-----------------------------------------------------------------|
| D420            | COMMERCIAL MOTOR VEHICLE<br>LICENSE STATUS equals 00, | COMPLIANCE WITH CDL<br>ENDORSEMENTS should not equal 1-3.       |
| D430            | COMPLIANCE WITH CDL<br>ENDORSEMENTS equals 1-3,       | COMMERCIAL MOTOR VEHICLE<br>LICENSE STATUS should not equal 00. |
| D460            | COMMERCIAL MOTOR VEHICLE<br>LICENSE STATUS equals 99, | COMPLIANCE WITH CDL<br>ENDORSEMENTS should equal 0, 3, 9.       |

## D10 - License Compliance with Class of Vehicle - FARS Only

**FORMAT:** 1 numeric

**SAS NAME:** Vehicle.L\_COMPL

**ELEMENT VALUES:**

| Codes | Attributes                                                                      |
|-------|---------------------------------------------------------------------------------|
| 0     | <a href="#">Not licensed</a>                                                    |
| 1     | <a href="#">No license required for this class vehicle</a>                      |
| 2     | <a href="#">No valid license for this class vehicle</a>                         |
| 3     | <a href="#">Valid license for this class vehicle</a>                            |
| 8     | <a href="#">Unknown if CDL and/or CDL endorsement required for this vehicle</a> |
| 9     | <a href="#">Unknown</a>                                                         |

**Definition:** This element refers to the type of license possessed or not possessed by the driver for the class of vehicle being driven at the time of the crash.

**Source:** Official driver record and police report. Official driver records take precedence over police reported information.

**Remarks:** This element is coded according to the driver's [NON-CDL LICENSE STATUS](#) when driving a vehicle not requiring a CDL and to the driver's [COMMERCIAL MOTOR VEHICLE LICENSE STATUS](#) when driving a vehicle requiring a CDL.

Also see [Remarks for NON-CDL LICENSE TYPE/STATUS on military personnel](#).

**0 (Not licensed)** should be used only when it has been reasonably established that the driver is not licensed (anywhere) and where [NON-CDL LICENSE TYPE/STATUS](#) equals **0 (Not licensed)**. Drivers who have a license but fail to have their license with them at the time of the crash should be coded according to the type of license they possess and the class of vehicle they were driving. **0 (Not licensed)** should not be used in this instance. If the police report indicates that the driver has “no license,” the analyst must first determine whether this means the person was not in possession of his/her license at the time of the crash or that the driver is not a licensed motor vehicle operator. A review of the violations cited section of the police report might yield some clues in this matter. If the person is cited for not possessing his/her license or for not having one, then code this information *in* [VIOLATIONS CHARGED](#). *If* the analyst is uncertain as to whether or not the person possesses a license, then **9 (Unknown)** should be used.

**1 (No license required for this class vehicle)** means that a license was not required for the vehicle being driven (e.g., mopeds in some States).

**2 (No valid license for this class vehicle)** may be used for suspended, revoked, canceled, or expired driving privileges. It also refers to **drivers with a valid license** but not for the class of vehicle driven at the time of the crash. As an example, the driver has an “operator’s license” when a “public passenger” type of license is required. For this driver, **2 (No valid license for this class vehicle)** should be coded. Another common situation occurs when a separate license is

required for a motorcycle. If the driver possesses a valid license for a passenger car but not for the motorcycle, then **2 (No valid license for this class vehicle)** should be used if the driver was involved in this crash while driving a motorcycle.

A license (or a portion of the license applicable to the class vehicle driven) that is not in effect because of some action taken by the State, such as suspended, revoked, etc., is not to be coded as valid. Similarly, learner's permits that are not used under the proper conditions (for example, a required licensed driver for the class of vehicle driven is not present to accompany the driver involved) are not to be coded as valid either.

**2 (No valid license for this class vehicle)** should be used for suspended, revoked, disqualified, canceled, or expired CDL licenses when the vehicle requires a CDL (see table for [Coding Scenarios for CDL Licenses](#)).

**3 (Valid license for this class vehicle)** refers to the class of vehicle being driven. As an example, the driver has a "motorcycle" driver's license only and was driving a motorcycle at the time of the crash; **3 (Valid license for this class vehicle)** should be used. On the other hand, a driver might possess a multiple-class license allowing him or her to drive a passenger car as well as a motorcycle. If the vehicle being driven at the time of the crash is a passenger car, also code this element **3 (Valid license for this class vehicle)**. If the vehicle driver requires a CDL and the CDL status is valid, use **3 (Valid license for this class vehicle)**.

**8 (Unknown if CDL and/or CDL endorsement required for the vehicle)** should be used if it cannot be determined if the vehicle driven requires a CDL or CDL endorsement. There should be sufficient cause to suspect the need for a CDL or CDL endorsement to use this code, such as the vehicle's size (26,001 lbs or more), configuration (truck tractor/trailer, combinations, tankers, etc.), or possibly hauling hazardous cargo.

**9 (Unknown)** should be used when the driver has a license, but the type or validity are uncertain or if it is unknown whether the driver had a license or not (e.g., hit-and-run).

A cross-reference table for coding variables D7 and D10 follows. Consult this table only when the driver is operating a vehicle that does not require a CDL.

**Cross Reference Table for NON-CDL LICENSE STATUS and LICENSE COMPLIANCE WITH CLASS OF VEHICLE:**

**LICENSE COMPLIANCE WITH CLASS OF VEHICLE**

| <u>STATUS</u> | 0 | 1 | 2 | 3 | 8 | 9 |
|---------------|---|---|---|---|---|---|
| 0             | Y | Y | N | N | N | N |
| 1             | N | Y | Y | N | N | N |
| 2             | N | Y | Y | N | N | N |
| 3             | N | Y | Y | N | N | N |
| 4             | N | Y | Y | N | N | N |
| 6             | N | Y | Y | Y | N | Y |
| 9             | N | Y | N | N | N | Y |

Y = Valid Combination

N = Invalid Combination

**REMINDER:** NON-CDL LICENSE STATUS applies to any license entry in the driver's record (except CDL). LICENSE COMPLIANCE WITH CLASS OF VEHICLE applies to this vehicle only.

**Consistency Checks (See Section 400):**

| Error ID | IF                                                                                          | THEN                                                         |
|----------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| 1H2F     | DRIVER PRESENCE equals 0, 9,                                                                | LICENSE COMPLIANCE WITH CLASS OF VEHICLE must be blank.      |
| 1K0P     | DRIVER'S LICENSE STATE equals 99,                                                           | LICENSE COMPLIANCE WITH CLASS OF VEHICLE must not equal 0-3. |
| 6L0P     | COMPLIANCE WITH LICENSE RESTRICTIONS equals 1, and RELATED FACTORS-DRIVER LEVEL equals 019, | LICENSE COMPLIANCE WITH CLASS OF VEHICLE must equal 3.       |
| 8L0P     | LICENSE COMPLIANCE WITH CLASS OF VEHICLE equals 0-2, 9,                                     | RELATED FACTORS-DRIVER LEVEL must not equal 019.             |
| 9J0P     | LICENSE COMPLIANCE WITH CLASS OF VEHICLE equals 0, 1,                                       | COMPLIANCE WITH LICENSE RESTRICTIONS must not equal 1-3, 9.  |
| BK0P     | LICENSE COMPLIANCE WITH CLASS OF VEHICLE equals 1,                                          | COMPLIANCE WITH CDL ENDORSEMENTS must not equal 1-3, 9.      |
| BL0P     | COMPLIANCE WITH CDL ENDORSEMENTS equals 1, and any RELATED FACTORS-DRIVER LEVEL equals 019, | LICENSE COMPLIANCE WITH CLASS OF VEHICLE must equal 3.       |
| CG0P     | LICENSE COMPLIANCE WITH CLASS OF VEHICLE equals 0,                                          | COMPLIANCE WITH CDL ENDORSEMENTS must not equal 1, 3.        |

| <b>Error ID</b> | <b>IF</b>                                                                                             | <b>THEN</b>                                                           |
|-----------------|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| D340            | NON-CDL LICENSE STATUS equals 1-4, 6, 9, or COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 01-08, 99, | LICENSE COMPLIANCE WITH CLASS OF VEHICLE should not equal 0.          |
| D380            | NON-CDL LICENSE STATUS equals 9,                                                                      | LICENSE COMPLIANCE WITH CLASS OF VEHICLE should equal 1 or 9.         |
| D390            | NON-CDL LICENSE STATUS equals 0,                                                                      | LICENSE COMPLIANCE WITH CLASS OF VEHICLE should not equal 2, 3, 8, 9. |
| D400            | NON-CDL LICENSE STATUS equals 0-4,                                                                    | LICENSE COMPLIANCE WITH CLASS OF VEHICLE should not equal 3, 8, 9.    |
| D410            | LICENSE COMPLIANCE WITH CLASS OF VEHICLE equals 0,                                                    | COMPLIANCE WITH CDL ENDORSEMENTS should not equal 1-3, 9.             |

## D11 - Compliance with License Restrictions - FARS Only

**FORMAT:** 1 numeric

**SAS NAME:** Vehicle.L\_RESTRI

**ELEMENT VALUES:**

| Codes | Attributes                                        |
|-------|---------------------------------------------------|
| 0     | <a href="#">No Restrictions or Not Applicable</a> |
| 1     | <a href="#">Restrictions Complied With</a>        |
| 2     | <a href="#">Restrictions Not Complied With</a>    |
| 3     | <a href="#">Restrictions, Compliance Unknown</a>  |
| 9     | <a href="#">Unknown</a>                           |

**Definition:** This element identifies if a driver was compliant with restrictions on their license.

**Remarks:** Refers to both physical restrictions (corrective lenses, automatic transmission, etc.) and imposed restrictions (limited driving). It also refers to any limitations imposed on Learner's Permits and Intermediate Licenses in States with graduated driver licensing (GDL) programs (e.g., driving during prohibited periods [midnight to 5 a.m.], driving without adult supervision, etc.). (See [Coding Scenarios for GDL Licensing Program](#) table.)

Code all applicable restrictions regardless of license status.

### Examples:

If a [NON-CDL LICENSE TYPE](#) of **1 (Full Driver License)** is revoked or suspended but limited driving is permitted (e.g., to and from work), use the following criteria:

- If the crash occurs during permitted times of driving, code [NON-CDL LICENSE TYPE](#) as **1 (Full Driver License)** and STATUS as **6 (Valid)**, code COMPLIANCE WITH LICENSE RESTRICTIONS as [1 \(Restrictions Complied with\)](#), and code RELATED FACTORS-DRIVER LEVEL as [019 \(Legally Driving on Suspended or Revoked License\)](#).
- If the crash occurs during invalid times for driving, code [NON-CDL LICENSE TYPE](#) as **1 (Full Driver License)** and STATUS as **1 (Suspended)** or **2 (Revoked)**, code COMPLIANCE WITH LICENSE RESTRICTIONS as [2 \(Restriction Not Complied with\)](#), and do NOT use RELATED FACTORS-DRIVER LEVEL **019 (Legally Driving on Suspended or Revoked License)**.

If due to a CDL, a driver has more than one license restriction, code compliance for the most appropriate license restrictions based on the vehicle being driven at the time of the crash (i.e., if vehicle being driven requires a CDL, use the CDL license restrictions).

**0 (No Restrictions or Not Applicable)** is used when the driver has no restrictions on their license, when the driver is unlicensed or when they are operating a vehicle that does not require a license.



**1 (Restrictions Complied With)** is used when the driver is in compliance with the restrictions for their driver's license.

**2 (Restrictions Not Complied With)** is used when the driver is not compliant with the restrictions for their driver's license.

**3 (Restrictions, Compliance Unknown)** is used when it is known that this driver has restrictions on their license, but compliance is not known.

**9 (Unknown)** is used when it is unknown if the driver is licensed or when it is unknown if a licensed driver had restrictions.

**Consistency Checks [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                                                                                     | <b>THEN</b>                                                 |
|-----------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| 1H4F            | DRIVER PRESENCE equals 0, 9,                                                                  | COMPLIANCE WITH LICENSE RESTRICTIONS must be blank.         |
| 2I0P            | DRIVER'S LICENSE STATE equals 99,                                                             | COMPLIANCE WITH LICENSE RESTRICTIONS must not equal 0-3.    |
| 5I0P            | NON-CDL LICENSE STATUS equals 0,                                                              | COMPLIANCE WITH LICENSE RESTRICTIONS must not equal 1-3, 9. |
| 6I0P            | NON-CDL LICENSE STATUS equals 9, and<br>COMMERCIAL MOTOR VEHICLE<br>LICENSE STATUS equals 00, | COMPLIANCE WITH LICENSE RESTRICTIONS must not equal 1-3.    |
| 6L0P            | COMPLIANCE WITH LICENSE RESTRICTIONS equals 1, and RELATED FACTORS-DRIVER LEVEL equals 019,   | LICENSE COMPLIANCE WITH CLASS OF VEHICLE must equal 3.      |
| 7I0P            | COMPLIANCE WITH LICENSE RESTRICTIONS equals 1, and RELATED FACTORS-DRIVER LEVEL equals 019,   | NON-CDL LICENSE STATUS must equal 6.                        |
| 8J2P            | RELATED FACTORS-DRIVER LEVEL equals 073, 074,                                                 | COMPLIANCE WITH LICENSE RESTRICTIONS must equal 2.          |
| 9J0P            | LICENSE COMPLIANCE WITH CLASS OF VEHICLE equals 0, 1,                                         | COMPLIANCE WITH LICENSE RESTRICTIONS must not equal 1-3, 9. |
| D260            | NON-CDL LICENSE STATUS equals 9, or<br>COMMERCIAL MOTOR VEHICLE<br>LICENSE STATUS equals 99,  | COMPLIANCE WITH LICENSE RESTRICTIONS should not equal 0.    |
| D690            | NON-CDL LICENSE TYPE equals 2, 7, and<br>COMPLIANCE WITH LICENSE RESTRICTIONS equals 2,       | RELATED FACTORS-DRIVER LEVEL should equal 073, 074.         |
| D700            | NON-CDL LICENSE TYPE equals 1, and<br>COMPLIANCE WITH LICENSE RESTRICTIONS equals 2,          | RELATED FACTORS-DRIVER LEVEL should equal 074.              |

| <b>Error ID</b> | <b>IF</b>                                | <b>THEN</b>                                                                                      |
|-----------------|------------------------------------------|--------------------------------------------------------------------------------------------------|
| D730            | RELATED FACTORS-DRIVER LEVEL equals 073, | COMPLIANCE WITH LICENSE RESTRICTIONS should equal 2, and NON-CDL LICENSE TYPE should equal 2, 7. |

## D12 - Driver Height - FARS Only

**FORMAT:** 1 set 1 numeric, 1 set 2 numeric

**SAS NAME:** Vehicle.DR\_HGT

**ELEMENT VALUES:**

**FEET**

| Codes | Attributes  |
|-------|-------------|
| 0     | See Inches  |
| 2-8   | Actual Feet |
| 9     | Unknown     |

**INCHES**

| Codes        | Attributes    |
|--------------|---------------|
| 00-11, 24-96 | Actual Inches |
| 98           | Other         |
| 99           | Unknown       |

**Definition:** This element identifies a driver's height.

**Remarks:** Use the driver licensing files to code this element. The medical examiner or coroner's report may be used and may contain more current/accurate information.

Code the driver's height in feet and inches, if available. Inches less than 10 must be right justified with a leading "0" (e.g., 9 inches is coded "09"). If height is only available in total inches, then code INCHES and code FEET as "0."

The tallest height that can be recorded in total INCHES is 96 inches (8 ft.). The tallest height that can be recorded in FEET and INCHES is 8 ft. - 11 inches. If the driver is taller than 96 inches, then you must code height as feet and inches. If the driver is taller than 8 ft. - 11 inches, then you must code the DRIVER HEIGHT as "Other" (use code 0 for FEET, use code 98 for INCHES).

DRIVER HEIGHT less than "3 Feet," greater than "7 Feet - 0 Inches," less than "36 Inches," or greater than "0 Feet - 84 Inches" will raise an error flag.

**Consistency Checks** ([See Section 400](#)):

| Error ID | IF                                       | THEN                                                 |
|----------|------------------------------------------|------------------------------------------------------|
| 1HDF     | DRIVER PRESENCE equals 0, 9,             | DRIVER HEIGHT (feet and inches) must equal blank.    |
| 4H1P     | DRIVER HEIGHT/INCHES is less than 12,    | DRIVER HEIGHT/FEET must not be blank nor equal to 0. |
| 4H2P     | DRIVER HEIGHT/INCHES is greater than 11, | DRIVER HEIGHT/FEET must equal 0.                     |

| <b>Error ID</b> | <b>IF</b>                                                                                  | <b>THEN</b>                                      |
|-----------------|--------------------------------------------------------------------------------------------|--------------------------------------------------|
| 4H3P            | DRIVER HEIGHT/FEET is 2-8,                                                                 | DRIVER HEIGHT/ INCHES must equal 00-11.          |
| 4H4P            | DRIVER HEIGHT/FEET equals 9,                                                               | DRIVER HEIGHT/INCHES must equal 99.              |
| 4H5P            | DRIVER HEIGHT/INCHES equals 99,                                                            | DRIVER HEIGHT/FEET must equal 9.                 |
| 4H6P            | DRIVER HEIGHT/INCHES equals 98,                                                            | DRIVER HEIGHT/FEET must equal 0.                 |
| 4H7P            | DRIVER HEIGHT/FEET is 0,                                                                   | DRIVER HEIGHT/INCHES must equal 24-96, 98.       |
| D600            | DRIVER HEIGHT/INCHES is greater than 11,                                                   | DRIVER HEIGHT/INCHES should not be less than 48. |
| D610            | DRIVER HEIGHT/FEET is not blank and not equal to 0,                                        | DRIVER HEIGHT/FEET should not be less than 3.    |
| U260            | UNLIKELY: DRIVER HEIGHT (in feet) is less than 3 feet or greater than 7 feet; verify data. | --                                               |
| U280            | UNLIKELY: DRIVER HEIGHT is less than 36 inches or greater than 84 inches, verify data.     | --                                               |

### D13 - Driver Weight - FARS Only

**FORMAT:** 3 numeric

**SAS NAME:** Vehicle.DR\_WGT

#### ELEMENT VALUES:

| Codes   | Attributes              |
|---------|-------------------------|
| 040-700 | Actual weight in pounds |
| 998     | Other                   |
| 999     | Unknown                 |

**Definition:** This element identifies a driver's weight.

**Remarks:** Use the driver licensing files to code this element. The medical examiner or coroner's report may be used and may contain more current/accurate information.

Code the driver's weight in pounds, if available.

Weight should be right justified.

Weights less than 100 lbs must be coded with a leading "0" in the left-most position (e.g., 98 lbs is coded "098").

DRIVER WEIGHT less than 50 lbs or greater than 399 lbs will raise an error flag.

#### Consistency Checks [\(See Section 400\)](#):

| Error ID | IF                                                                                  | THEN                            |
|----------|-------------------------------------------------------------------------------------|---------------------------------|
| 1HEF     | DRIVER PRESENCE equals 0, 9,                                                        | DRIVER WEIGHT must equal blank. |
| U290     | UNLIKELY; DRIVER WEIGHT is less than 50 lbs. or greater than 399 lbs., verify data. | --                              |

## D14, D15, D16, D17, D18 - Driver Level Counters - FARS Only

### [D14 - Previous Recorded Crashes\\*](#)

### [D15 - Previous Recorded Suspensions, Revocations, and Withdrawals\\*](#)

### [D16 - Previous DWI Convictions\\*](#)

### [D17 - Previous Speeding Convictions\\*](#)

### [D18 - Previous Other Moving Violation Convictions\\*](#)

**FORMAT:** 2 numeric for each element

**SAS NAME:** Vehicle.PREV\_ACC, Vehicle.PREV\_SUS1, Vehicle.PREV\_SUS2, Vehicle.PREV\_SUS3, Vehicle.PREV\_DWI, Vehicle.PREV\_SPD, Vehicle.PREV\_OTH

#### **ELEMENT VALUES:**

| Codes | Attributes                                                                                                |
|-------|-----------------------------------------------------------------------------------------------------------|
| 00    | <u><a href="#">None</a></u>                                                                               |
| 01-97 | <u><a href="#">Actual Value</a></u>                                                                       |
| 98    | Crashes not reported on Driving Record (valid only for <u><a href="#">Previous Recorded Crashes</a></u> ) |
| 99    | <u><a href="#">Unknown</a></u>                                                                            |

**D14 Definition for Previous Recorded Crashes:** This element records any previous crashes for this driver. Count only events occurring within **5 years of** the crash date.

#### **D15 Definitions for Previous Recorded Suspensions, Revocations, and Withdrawals:**

##### **Subfield 1: Previous Underage Administrative Per Se for BAC:**

This subfield records any underage pre-conviction administrative license suspension, revocation, or withdrawal in the previous 5 years including those for zero-tolerance alcohol violations while driving or refusing to submit to chemical testing. This subfield is only for administrative actions associated with alcohol. These are NOT BAC CONVICTIONS.

##### **Subfield 2: Previous Administrative Per Se for BAC (Not Underage):**

This subfield records the count of previous pre-conviction administratively imposed suspensions, revocations, or withdrawals within the previous 5 years for driving with a BAC above a specified limit or refusing to submit to chemical testing. This subfield is only for administrative actions associated with alcohol. These are NOT BAC CONVICTIONS.

##### **Subfield 3: Previous Recorded Other Suspensions, Revocations, or Withdrawals:**

This subfield records any previous license suspensions, revocations, or withdrawals for this driver other than Administrative action for BAC violations. This subfield would include administrative actions associated with drugged driving. Count only the events occurring within 5 years of the crash date. If it can be identified on the driving record, do not include in this count recorded actions

resulting from non-traffic related issues or offenses (e.g., failure to pay child support, failure to appear in court for a non-driving offense, a suspension imposed for a drug-related offense not involving the operation of a motor vehicle). Also note that “cancellation” of a CDL license is not counted here. If a driver has been DISQUALIFIED for a CDL, record this here.

**D16 Definition for Previous DWI Convictions:** This element records any previous DWI convictions for this driver. Count only the events occurring within **5 years of** the crash date.

**D17 Definition for Previous Speeding Convictions:** This element records any previous Speeding convictions for this driver. Count only the events occurring within **5 years of** the crash date.

**D18 Definition for Previous Other Moving Violation Convictions:** This element records any other previous moving violation convictions for this driver. Count only the events occurring within **5 years of** the crash date.

This count excludes non-moving violations noted in the driver history. **Exclusion** examples include registration or title violations, operating a motor vehicle without insurance, failure to pay required toll, improper/illegal parking, leaving child unattended in vehicle, driving on a suspended/revoked license, etc.

**Remarks: DO NOT include the current crash in any of the counters.**

Remember there is a difference between a violation and a conviction. The violation is not counted in [Previous DWI](#), [Previous Speeding](#), and [Previous Other Moving Violation Convictions](#). These elements refer ONLY TO CONVICTIONS. Both convictions and violations appear on driver records in many States. Be careful that you code the conviction dates and NOT the violation dates.

DWI refers to both alcohol and drug convictions.

When you are responding to another State’s request for driver data, do the following.

1. In the counters, record both in-State and out-of-State convictions, crashes, suspensions, and revocations that appear on your State’s record.
2. List out-of-State activity that is included in the counters in the area provided on the Out-of-State Driver Data Response through **RBIS**.

Drivers can have a driving record or driver’s license from more than one State. When you are coding the driver level counter elements ([Crashes](#), [Suspensions](#), [Revocations](#), [DWI](#), [Speeding](#), and [Other Moving Violation Convictions](#)), be sure to combine distinct events from all of the records you have. Be careful not to double-count the same event. Also use RELATED FACTORS - DRIVER LEVEL [089 \(Driver has a Driving Record or Driver’s License from More Than One State\)](#) when this situation occurs.

[PREVIOUS OTHER MOVING VIOLATION CONVICTIONS](#) includes all other motor vehicle convictions. Some examples of convictions include:

- running a red light,
- reckless driving,
- improper lane changing, and
- failure to yield, etc.

**00 (None)** indicates no counts of the indicated type appear on the driving history record. *Also, use this attribute if the driver has not compiled a record of infractions and has never been licensed.*

**01-97 (Actual Value)** Record the actual count of events of the indicated type recorded on the driver history within the previous 5 years.

**99 (Unknown)** indicates the driver appears to be licensed but a driver history cannot be obtained or accessed. If any counter equals 99, all counters must equal 99.

**\* For Element \_\_\_\_\_, Values greater than \_\_\_\_ are unlikely and will raise an error flag:**

| Element                                                       | Value |
|---------------------------------------------------------------|-------|
| PREVIOUS RECORDED CRASHES                                     | 8     |
| Any Subfield of PREVIOUS RECORDED SUSPENSIONS AND REVOCATIONS | 10    |
| PREVIOUS DWI CONVICTIONS                                      | 8     |
| PREVIOUS SPEEDING CONVICTIONS                                 | 8     |
| PREVIOUS OTHER MOVING VIOLATION CONVICTIONS                   | 8     |

Make sure you know what constitutes a MOVING VIOLATION in your State. The DMV should be able to help you determine these.

**Consistency Checks [\(See Section 400\)](#):**

| Error ID | IF                           | THEN                                                                                |
|----------|------------------------------|-------------------------------------------------------------------------------------|
| 1H0F     | DRIVER PRESENCE equals 0, 9, | PREVIOUS SPEEDING CONVICTIONS must be blank.                                        |
| 1H7F     | DRIVER PRESENCE equals 0, 9, | PREVIOUS RECORDED CRASHES must be blank.                                            |
| 1H8F     | DRIVER PRESENCE equals 0, 9, | all three Subfields of PREVIOUS RECORDED SUSPENSIONS AND REVOCATIONS must be blank. |
| 1H9F     | DRIVER PRESENCE equals 0, 9, | PREVIOUS DWI CONVICTIONS must be blank.                                             |



| <b>Error ID</b> | <b>IF</b>                                                                                                             | <b>THEN</b>                                                                                                                                                                        |
|-----------------|-----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1HAF            | DRIVER PRESENCE equals 0, 9,                                                                                          | PREVIOUS OTHER MOVING VIOLATION CONVICTIONS must be blank.                                                                                                                         |
| 2J0P            | all counters are not blanks and PREVIOUS RECORDED CRASHES is not equal to 98 and any counter are not equal to 00, 99, | DATE OF <b>MOST RECENT</b> CRASH, SUSPENSION, CONVICTION must not equal 000000, 999999.                                                                                            |
| 2J1P            | all counters are not blanks and PREVIOUS RECORDED CRASHES is not equal to 98 and any counter are not equal to 00, 99, | DATE OF <b>OLDEST</b> CRASH, SUSPENSION, CONVICTION must not equal 000000, 999999.                                                                                                 |
| 3I2P            | DRIVER'S LICENSE STATE equals 98, 99,                                                                                 | then all driver history counters must equal 99.                                                                                                                                    |
| 4J0P            | all counters are not blanks and the sum of all counters less than 98 is equal to 1,                                   | DATE OF <b>MOST RECENT</b> CRASH, SUSPENSION, CONVICTION must equal DATE OF <b>OLDEST</b> CRASH, SUSPENSION, CONVICTION.                                                           |
| 990P            | any counter equals 99,                                                                                                | all counters must equal 99 and DATE OF <b>MOST RECENT</b> CRASH, SUSPENSION, CONVICTION and DATE OF <b>OLDEST</b> CRASH, SUSPENSION, CONVICTION must equal 9999 [year]/99 [month]. |
| CJ00            | PREVIOUS RECORDED CRASHES equals 98,                                                                                  | DRIVER'S LICENSE STATE should equal 09, 13, 28, 30, 35, 49.                                                                                                                        |
| CJ01            | any driver history counter is not equal to 99,                                                                        | DRIVER'S LICENSE STATE must not be 96, 97, 98, or 99.                                                                                                                              |
| D010            | DRIVER'S LICENSE STATE equals 96, 97,                                                                                 | PREVIOUS RECORDED CRASHES should equal 99.                                                                                                                                         |
| D020            | DRIVER'S LICENSE STATE equals 96, 97,                                                                                 | all three Subfields of PREVIOUS RECORDED SUSPENSIONS AND REVOCATIONS should equal 99.                                                                                              |
| D030            | DRIVER'S LICENSE STATE equals 96, 97,                                                                                 | PREVIOUS DWI CONVICTIONS should equal 99.                                                                                                                                          |
| D040            | DRIVER'S LICENSE STATE equals 96, 97,                                                                                 | PREVIOUS SPEEDING CONVICTIONS should equal 99.                                                                                                                                     |
| D050            | DRIVER'S LICENSE STATE equals 96, 97,                                                                                 | PREVIOUS OTHER MOVING VIOLATION CONVICTIONS should equal 99.                                                                                                                       |
| D100            | NON-CDL LICENSE STATUS equals 9,                                                                                      | all driver history counters PREVIOUS RECORDED CRASHES should equal 99.                                                                                                             |
| D110            | NON-CDL LICENSE STATUS equals 9,                                                                                      | all driver history counters should equal 99.                                                                                                                                       |
| D120            | NON-CDL LICENSE STATUS equals 9,                                                                                      | all driver history counters PREVIOUS DWI CONVICTIONS should equal 99.                                                                                                              |

| <b>Error ID</b> | <b>IF</b>                                                                                                    | <b>THEN</b>                                                                              |
|-----------------|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| D130            | NON-CDL LICENSE STATUS equals 9,                                                                             | all driver history counters PREVIOUS SPEEDING CONVICTIONS should equal 99.               |
| D140            | NON-CDL LICENSE STATUS equals 9,                                                                             | all driver history counters PREVIOUS OTHER MOVING VIOLATION CONVICTIONS should equal 99. |
| D480            | DRIVER'S LICENSE STATE equals 09, 28, 30, 35, 49,                                                            | PREVIOUS RECORDED CRASHES should equal 98.                                               |
| U210            | UNLIKELY: PREVIOUS RECORDED CRASHES is greater than 8 and less than 98.                                      | --                                                                                       |
| U220            | UNLIKELY: any Subfield of PREVIOUS RECORDED SUSPENSIONS AND REVOCATIONS is greater than 10 and less than 98. | --                                                                                       |
| U230            | UNLIKELY: PREVIOUS DWI CONVICTIONS is greater than 8 and less than 98.                                       | --                                                                                       |
| U240            | UNLIKELY: PREVIOUS SPEEDING CONVICTIONS is greater than 8 and less than 98.                                  | --                                                                                       |
| U250            | UNLIKELY: PREVIOUS OTHER MOVING VIOLATION CONVICTIONS is greater than 8 and less than 98.                    | --                                                                                       |

## D19, D20 - Date of Oldest and Most Recent Crash, Suspension, Conviction - FARS Only

**FORMAT:** 1 set 2 numeric, 1 set 4 numeric for each element.

**SAS NAME:** Vehicle.FIRST\_MO, Vehicle.FIRST\_YR / Vehicle.LAST\_MO, Vehicle.LAST\_YR

### ELEMENT VALUES:

#### MONTH

| Codes | Attributes                |
|-------|---------------------------|
| 00    | <a href="#">No Record</a> |
| 01-12 | Actual Month              |
| 99    | Unknown                   |

#### YEAR

| Codes | Attributes                  |
|-------|-----------------------------|
| 0000  | <a href="#">No Record</a>   |
| --    | All 4 Digits of Actual Year |
| 9999  | Unknown                     |

**Definition for Date of *Oldest* Crash, Suspension, Conviction:** This element identifies the date of the *oldest* crash, suspension, or conviction recorded in elements [D14 through D18](#). Count only dates of events occurring within **5 years of** the crash date.

**Definition for Date of *Most Recent* Crash, Suspension, Conviction:** This element identifies the date of the *most recent* crash, suspension, or conviction recorded in elements [D14 through D18](#). Count only dates of events occurring within **5 years of** the crash date.

**Remarks:** If it can be identified on the driving record, do not include recorded suspensions and revocations resulting from non-traffic related issues or offenses (e.g., failure to pay child support, failure to appear in court for a non-driving offense, a suspension imposed for a drug-related offense not involving the operation of a motor vehicle).

Code only dates of events occurring within **5 years of** the crash date. Code the month and year in that order.

This element, although it contains two pieces of information, should be treated as one element. That is, never leave month blank without leaving the year blank, and vice versa.

**00 (No Record) indicates no records of the indicated type appear on the driving history record. Also, use this attribute if the driver has not compiled a record of infractions and has never been licensed.**

Consistency Checks [\(See Section 400\)](#):

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                     | <b>THEN</b>                                                                                                              |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| 1HBF            | DRIVER PRESENCE equals 0, 9,                                                                                                                                                  | DATE OF <b>MOST RECENT</b> CRASH, SUSPENSION, CONVICTION must be blank.                                                  |
| 1HCF            | DRIVER PRESENCE equals 0, 9,                                                                                                                                                  | DATE OF <b>OLDEST</b> CRASH, SUSPENSION, CONVICTION must be blank.                                                       |
| 2J0P            | all counters are not blanks and PREVIOUS RECORDED CRASHES is not equal to 98 and any counter are not equal to 00, 99,                                                         | DATE OF <b>MOST RECENT</b> CRASH, SUSPENSION, CONVICTION must not equal 000000, 999999.                                  |
| 2J1P            | all counters are not blanks and PREVIOUS RECORDED CRASHES is not equal to 98 and any counter are not equal to 00, 99,                                                         | DATE OF <b>OLDEST</b> CRASH, SUSPENSION, CONVICTION must not equal 000000, 999999.                                       |
| 2K0P            | DATE OF <b>OLDEST</b> CRASH, SUSPENSION, CONVICTION must be less than or equal to DATE OF <b>MOST RECENT</b> CRASH, SUSPENSION, CONVICTION.                                   | --                                                                                                                       |
| 3J0P            | all counters equal 00,                                                                                                                                                        | DATE OF <b>MOST RECENT</b> CRASH, SUSPENSION, CONVICTION must equal 000000.                                              |
| 3J1P            | all counters equal 00,                                                                                                                                                        | DATE OF <b>OLDEST</b> CRASH, SUSPENSION, CONVICTION must equal 000000.                                                   |
| 3K0P            | DATE OF <b>MOST RECENT</b> CRASH [Year], SUSPENSION, CONVICTION is not equal to 9999 and DATE OF <b>MOST RECENT</b> CRASH [Month], SUSPENSION, CONVICTION is not equal to 99, | DATE OF <b>MOST RECENT</b> CRASH, SUSPENSION, CONVICTION must be less than or equal to CRASH DATE.                       |
| 4J0P            | all counters are not blanks and the sum of all counters less than 98 is equal to 1,                                                                                           | DATE OF <b>MOST RECENT</b> CRASH, SUSPENSION, CONVICTION must equal DATE OF <b>OLDEST</b> CRASH, SUSPENSION, CONVICTION. |
| 4K0P            | Month of DATE OF <b>MOST RECENT</b> CRASH, SUSPENSION, CONVICTION equals 00,                                                                                                  | then Year (of same) must equal 0000.                                                                                     |
| 4K1P            | Year of DATE OF <b>MOST RECENT</b> CRASH, SUSPENSION, CONVICTION equals 0000,                                                                                                 | then Month (of same) must equal 00.                                                                                      |
| 4K2P            | Month of DATE OF <b>OLDEST</b> CRASH, SUSPENSION, CONVICTION equals 00,                                                                                                       | Year (of same) must equal 0000.                                                                                          |
| 4K3P            | Year of DATE OF <b>OLDEST</b> CRASH, SUSPENSION, CONVICTION equals 0000,                                                                                                      | Month (of same) must equal 00.                                                                                           |

| <b>Error ID</b> | <b>IF</b>                                                                                                            | <b>THEN</b>                                                                                                                                                                        |
|-----------------|----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5J0P            | If the sum of all counters less than 98 is greater than fifteen,                                                     | DATE OF <b>MOST RECENT</b> CRASH, SUSPENSION, CONVICTION must not equal DATE OF <b>OLDEST</b> CRASH, SUSPENSION, CONVICTION.                                                       |
| 5K0P            | The Year of DATE OF <b>OLDEST</b> CRASH, SUSPENSION, CONVICTION must be within five years of the Year of CRASH DATE. | --                                                                                                                                                                                 |
| 990P            | any counter equals 99,                                                                                               | all counters must equal 99 and DATE OF <b>MOST RECENT</b> CRASH, SUSPENSION, CONVICTION and DATE OF <b>OLDEST</b> CRASH, SUSPENSION, CONVICTION must equal 9999 [year]/99 [month]. |
| D150            | the sum of all counters less than 98 is greater than five but less than fifteen,                                     | DATE OF <b>MOST RECENT</b> CRASH, SUSPENSION, CONVICTION should not equal DATE OF <b>OLDEST</b> CRASH, SUSPENSION, CONVICTION.                                                     |

## D21 - Violations Charged

**FORMAT:** 2 numeric. Select All That Apply.

**SAS NAME:** *Violatn.VIOLATION*

**ELEMENT VALUES:**

### Reckless/Careless/Hit-and-Run Type Offenses:

| Codes | Attributes                                                               |
|-------|--------------------------------------------------------------------------|
| 00    | <a href="#">None</a>                                                     |
| 01    | Manslaughter or homicide                                                 |
| 02    | Willful reckless driving; driving to endanger; negligent driving         |
| 03    | Unsafe reckless (not willful, wanton reckless) driving                   |
| 04    | Inattentive, careless, improper driving, <i>driving without due care</i> |
| 10    | Use of Telecommunications Device                                         |
| 05    | Fleeing or eluding police                                                |
| 06    | Fail to obey police, fireman, authorized person directing traffic        |
| 07    | Hit-and-run, fail to stop after crash                                    |
| 08    | Fail to give aid, information, wait for police after crash               |
| 09    | Serious violation resulting in death                                     |

### Impairment Offenses:

| Codes | Attributes                                                                                    |
|-------|-----------------------------------------------------------------------------------------------|
| 11    | Driving while intoxicated (alcohol or drugs) or BAC above limit (any detectable BAC for CDLs) |
| 12    | Driving while impaired                                                                        |
| 13    | Driving under influence of substance not intended to intoxicate                               |
| 14    | Drinking while operating                                                                      |
| 15    | Illegal possession of alcohol or drugs                                                        |
| 16    | Driving with detectable alcohol                                                               |
| 18    | Refusal to submit to chemical test                                                            |
| 19    | Alcohol, drug, or impairment violations generally                                             |

**Speed-Related Offenses:**

| <b>Codes</b> | <b>Attributes</b>                                                                             |
|--------------|-----------------------------------------------------------------------------------------------|
| 21           | Racing                                                                                        |
| 22           | Speeding (above the speed limit)                                                              |
| 23           | Speed greater than reasonable and prudent (not necessarily over the limit)                    |
| 24           | Exceeding special limit (e.g., for trucks, buses, cycles, or on bridge, in school zone, etc.) |
| 25           | Energy speed (exceeding 55 mph, non-pointable)                                                |
| 26           | Driving too slowly                                                                            |
| 29           | Speed related violations, generally                                                           |

**Rules of the Road - Traffic Sign and Signals:**

| <b>Codes</b> | <b>Attributes</b>                                                                      |
|--------------|----------------------------------------------------------------------------------------|
| 31           | Fail to stop for red signal                                                            |
| 32           | Fail to stop for flashing red                                                          |
| 33           | Violation of turn on red (fail to stop and yield, yield to pedestrians before turning) |
| 34           | Fail to obey flashing signal (yellow or red)                                           |
| 35           | Fail to obey signal, generally                                                         |
| 36           | Violate RR grade crossing device/regulations                                           |
| 37           | Fail to obey stop sign                                                                 |
| 38           | Fail to obey yield sign                                                                |
| 39           | Fail to obey traffic control device                                                    |

**Rules of the Road - Turning, Yielding, Signaling:**

| <b>Codes</b> | <b>Attributes</b>                                                                                                            |
|--------------|------------------------------------------------------------------------------------------------------------------------------|
| 41           | Turn in violation of traffic control (disobey signs, turn arrow, or pavement markings; this is not a right-on-red violation) |
| 42           | Improper method and position of turn (too wide, wrong lane)                                                                  |
| 43           | Fail to signal for turn or stop                                                                                              |
| 45           | Fail to yield to emergency vehicle                                                                                           |
| 46           | Fail to yield, generally                                                                                                     |
| 48           | Enter intersection when space insufficient                                                                                   |
| 49           | Turn, yield, signaling violations, generally                                                                                 |

**Rules of the Road - Wrong Side, Passing, and Following:**

| <b>Codes</b> | <b>Attributes</b>                                    |
|--------------|------------------------------------------------------|
| 51           | Driving wrong way on one-way road                    |
| 52           | Driving on left, wrong side of road, generally       |
| 53           | Improper, unsafe passing                             |
| 54           | Pass on right (drive off pavement to pass)           |
| 55           | Pass stopped school bus                              |
| 56           | Fail to give way when overtaken                      |
| 58           | Following too closely                                |
| 59           | Wrong side, passing, following violations, generally |

**Rules of the Road - Lane Usage:**

| <b>Codes</b> | <b>Attributes</b>                                                               |
|--------------|---------------------------------------------------------------------------------|
| 61           | Unsafe or prohibited lane change                                                |
| 62           | Improper use of lane (enter of 3-lane road, HOV designated lane)                |
| 63           | Certain traffic to use right lane (trucks, slow-moving, etc.)                   |
| 66           | Motorcycle lane violations (more than two per lane, riding between lanes, etc.) |
| 67           | Motorcyclist attached to another vehicle                                        |
| 69           | Lane violations, generally                                                      |

**Non-Moving - License and Registration Violations:**

| <b>Codes</b> | <b>Attributes</b>                                              |
|--------------|----------------------------------------------------------------|
| 71           | <a href="#">Driving while license withdrawn</a>                |
| 72           | <a href="#">Other driver license violations</a>                |
| 73           | Commercial driver violations (logbook, hours, permits carried) |
| 74           | Vehicle registration violations                                |
| 75           | Fail to carry insurance card                                   |
| 76           | Driving uninsured vehicle                                      |
| 79           | Non-moving violations, generally                               |



**Equipment:**

| Codes | Attributes                                                  |
|-------|-------------------------------------------------------------|
| 81    | Lamp violations                                             |
| 82    | Brake violations                                            |
| 83    | Failure to require restraint use (by self or passengers)    |
| 84    | Motorcycle equipment violations (helmet, special equipment) |
| 85    | Violation of hazardous cargo regulations                    |
| 86    | Size, weight, load violations                               |
| 89    | Equipment violations, generally                             |

**License and Registration Violations:**

| Codes | Attributes                                                           |
|-------|----------------------------------------------------------------------|
| 91    | Parking                                                              |
| 92    | Theft, unauthorized use of motor vehicle                             |
| 93    | Driving where prohibited (sidewalk, limited access, off truck route) |
| 97    | <a href="#">Not Reported</a>                                         |
| 98    | Other moving violation (coasting, backing, opening door)             |
| 99    | <a href="#">Unknown Violation(s)</a>                                 |

**Definition:** This element identifies all violations, citations, and infractions noted as charged to this driver in this crash, regardless of whether the driver survived the crash.

**Remarks:** This refers to those violations to the Vehicle Code charged as noted in the case material associated with this crash. Code all violations listed in the case material for this driver regardless of ownership of the vehicle (“borrowed,” “fleet,” “rental cars,” etc.).

If you are unable to distinguish between the violations within a specific category, use the General Code (i.e., 09, 19, 29, 39, 49, 59, 69, 79, 89) for that category.

**00 (None)** is used when there is indication that no violations were charged to this driver or when no violations are noted in the case material for this driver and that indicates no violations were charged to the driver.

**CRSS SPECIAL INSTRUCTION:**

In cases where the investigating officer has designated “pending” in the case material use **00 (None)**.

**71 (Driving While License Withdrawn)** would include violations for operating a vehicle with a suspended or revoked driver’s license or violating the provisions of a work permit.

**72 (Other Driver License Violations)** is used when the driver is cited for not complying with learner's permit or intermediate driver license restrictions (GDL Restrictions) or if the driver's license has expired. This attribute is also used when the driver has been cited for driving without a license (i.e., never been issued a license). For suspended or revoked, see [71 \(Driving While License Withdrawn\)](#).

**97 (Not Reported)** *Check to see if [00 \(None\)](#) or [99 \(Unknown Violation\(s\)\)](#) are more appropriate for the situation.*

If a State's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported.**"

Code **97 (Not Reported)** in these two situations:

1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

**99 (Unknown Violation(s))** is used when it is known that this driver had one or more violations but the specific violation(s) or violation category(ies) cannot be identified.

**Examples:**

- If it is known a driver had two violations but they cannot be identified, code **99 (Unknown Violation(s))** once.
- If the driver has a known specific violation(s) and other unspecified violation(s), code all the specific violation(s) and code **99 (Unknown Violation(s))** once.

**FARS SPECIAL INSTRUCTION:**

In cases where the investigating officer has designated "pending," always follow up whenever possible to confirm a violation was charged before entering [00 \(None\)](#) or **99 (Unknown Violation(s))**.

**Consistency Checks [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                                                              | <b>THEN</b>                                      |
|-----------------|------------------------------------------------------------------------|--------------------------------------------------|
| 1H6F            | DRIVER PRESENCE equals 0, 9,                                           | VIOLATIONS CHARGED must be blank.                |
| 6K0P            | VIOLATION CHARGED equals 71,                                           | RELATED FACTORS-DRIVER LEVEL must not equal 019. |
| 7K1P            | VIOLATIONS CHARGED code 99 must not be used more than once per driver. | --                                               |
| 8K0P            | VIOLATIONS CHARGED equals 07, 08,                                      | HIT-AND-RUN must not equal 0.                    |

| <b>Error ID</b> | <b>IF</b>                                                                          | <b>THEN</b>                                                                                             |
|-----------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| A270            | any VIOLATIONS CHARGED equals 31 <b>or</b> 33,                                     | TRAFFIC CONTROL DEVICE should equal 01-03 <b>for this vehicle</b> .                                     |
| A271            | <b>VIOLATIONS CHARGED equals 32 or 34,</b>                                         | <b>TRAFFIC CONTROL DEVICE should equal 04, for this vehicle.</b>                                        |
| A272            | <b>VIOLATIONS CHARGED equals 35,</b>                                               | <b>TRAFFIC CONTROL DEVICE should equal 01-09, for this vehicle.</b>                                     |
| A273            | <b>VIOLATIONS CHARGED equals 36,</b>                                               | <b>TRAFFIC CONTROL DEVICE should equal 65, for this vehicle.</b>                                        |
| A274            | <b>VIOLATIONS CHARGED equals 37,</b>                                               | <b>TRAFFIC CONTROL DEVICE should equal 20, for this vehicle.</b>                                        |
| A275            | <b>VIOLATIONS CHARGED equals 38,</b>                                               | <b>TRAFFIC CONTROL DEVICE should equal 21, for this vehicle.</b>                                        |
| A276            | <b>VIOLATIONS CHARGED equals 39,</b>                                               | <b>TRAFFIC CONTROL DEVICE must not equal 00, for this vehicle.</b>                                      |
| D090            | VIOLATIONS CHARGED equals 11-19, and PERSON TYPE equals 01, 03,                    | POLICE REPORTED ALCOHOL INVOLVEMENT should equal 1, or POLICE REPORTED DRUG INVOLVEMENT should equal 1. |
| D500            | VIOLATIONS CHARGED equals 05,                                                      | at least one RELATED FACTORS-CRASH LEVEL should equal 020.                                              |
| D501            | At least one VIOLATIONS CHARGED equals 04,                                         | at least one RELATED FACTORS - DRIVER LEVEL must equal 006 <b>or</b> 036.                               |
| D530            | any VIOLATIONS CHARGED equal 36 for a vehicle involved in the FIRST HARMFUL EVENT, | RELATION TO JUNCTION (b) should equal 06.                                                               |

| <b>Error ID</b> | <b>IF</b>                                   | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| D560            | VIOLATIONS CHARGED equals 66,               | <b><i>vPIC BODY CLASS should equal 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport/Adventure/Supermoto/On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 104 (Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle).</i></b> |
| D570            | any VIOLATIONS CHARGED equals 83,           | not all occupants of this vehicle should have RESTRAINT SYSTEM USE Subfield-1 Type of Restraint System in Use equal to 01-06, 08, 10-12.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| D580            | VIOLATIONS CHARGED equals 85,               | HM1 should equal 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| D5A0            | VIOLATIONS CHARGED equals 21-25, 29,        | SPEEDING RELATED must equal 2-5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| D5B0            | any VIOLATIONS CHARGED equal 11-13, 18, 19, | at least one CONDITION (IMPAIRMENT) AT TIME OF CRASH (D23) should equal 09.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| D5E0            | any VIOLATIONS CHARGED equal 00 or 97,      | only that one code and no other must be coded for this driver.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| D660            | VIOLATIONS equals 55,                       | SCHOOL BUS RELATED must equal 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| U440            | UNLIKELY: VIOLATIONS CHARGED equals 97.     | --                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

**Consistency Checks (FARS Only) [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                                             | <b>THEN</b>                                                                                                  |
|-----------------|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| 7K0P            | any VIOLATIONS CHARGED equals 71,                     | NON-CDL LICENSE STATUS must equal 0, 1, 2, or COMMERCIAL MOTOR VEHICLE LICENSE STATUS must equal 01, 02, 05. |
| D080            | VIOLATION CHARGED equals 01-06, 09, 31-69, 81-91, 98, | RELATED FACTORS-DRIVER LEVEL should not equal <i>000 or 999</i> .                                            |
| D350            | VIOLATIONS CHARGED equals 71,                         | NON-CDL LICENSE STATUS should not equal 0, 3, 6, 9.                                                          |

**Consistency Checks (CRSS Only) [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                                                                      | <b>THEN</b>                                                      |
|-----------------|--------------------------------------------------------------------------------|------------------------------------------------------------------|
| <i>D081</i>     | <i>VIOLATIONS CHARGED equals 01-04, 09, 51, 52, 67, 81, 82, 84, 89, or 98,</i> | <i>RELATED FACTORS-DRIVER LEVEL should not equal 000 or 999.</i> |

## D22 - Speeding Related

**FORMAT:** 1 numeric

**SAS NAME:** Vehicle.SPEEDREL

**ELEMENT VALUES:**

| Codes | Attributes                                   |
|-------|----------------------------------------------|
| 0     | <a href="#">No</a>                           |
| 2     | <a href="#">Yes, Racing</a>                  |
| 3     | <a href="#">Yes, Exceeded Speed Limit</a>    |
| 4     | <a href="#">Yes, Too Fast for Conditions</a> |
| 5     | <a href="#">Yes, Specifics Unknown</a>       |
| 9     | <a href="#">Reported as Unknown</a>          |

**Definition:** This element identifies if the driver **was speeding and it** was related to the crash as identified by law enforcement.

**Remarks:** If the case material states that more than one condition was present at the same time, enter the code with the lowest value. For example, if the driver was charged with “Too Fast for Conditions” **and** had a factor recorded for “Exceeded Speed Limit,” you would use code [3 \(Yes, Exceeded Speed Limit\)](#) because that has a lower value than [4 \(Yes, Too Fast for Conditions\)](#).

**Excessive or unsafe** speed can be indicated in the case material by the police issuing a citation for a speed offense, by their indicating a related or contributing factor, or through a description in the narrative. **For driving too slowly, or so as to impede traffic, see RELATED FACTORS - DRIVER LEVEL [045 \(Driving Less Than Posted Minimum\)](#).**

**0 (No)** is used if the case material does not indicate any speed related charges (violations, citations) and do not indicate any speed related factors.

**2 (Yes, Racing)** is used when two or more motor vehicles are engaged in a speed-related competition on the trafficway.

**3 (Yes, Exceeded Speed Limit)** is used when a motor vehicle is traveling above the posted/statutory speed limit on certain designated roadways and/or by certain types of vehicles (for trucks, buses, motorcycles, on bridge, at night, in school zone, etc.). **Do not compare an estimated travel speed to the posted speed limit for determining the correct attribute for this data element.** This attribute would apply in a case where law enforcement reports actual or estimated speed as unknown and still identifies exceeding the speed limit as a factor.

**4 (Yes, Too Fast for Conditions)** is used when a vehicle is traveling at a speed that was unsafe for the road, weather, traffic, or other environmental conditions at the time.

**5 (Yes, Specifics Unknown)** is used when it is known that Speed or Speeding applies but it cannot be determined which of the more specific attributes apply. When the only known information is “traveling at a high rate of speed” or “speed was a factor,” default to **5 (Yes, specifics unknown)**.

**9 (Reported as Unknown)** is used if the police state that the circumstances of the crash are unknown (i.e., it is unknown what factors, if any, may have been present at the time of the crash).

**Consistency Checks** [\(See Section 400\)](#):

| <b>Error ID</b> | <b>IF</b>                            | <b>THEN</b>                      |
|-----------------|--------------------------------------|----------------------------------|
| 1HFF            | DRIVER PRESENCE equals 0, 9,         | SPEEDING RELATED must be blank.  |
| D5A0            | VIOLATIONS CHARGED equals 21-25, 29, | SPEEDING RELATED must equal 2-5. |

## D23/NM 15 - Condition (Impairment) at Time of Crash

**FORMAT:** 2 numeric. Select All That Apply

**SAS NAME:** Drimpair.DRIMPAIR

### ELEMENT VALUES:

| Codes | Attributes                                                           |
|-------|----------------------------------------------------------------------|
| 00    | <a href="#">None/Apparently Normal</a>                               |
| 01    | <a href="#">Ill, Blackout</a>                                        |
| 02    | <a href="#">Asleep or Fatigued</a>                                   |
| 03    | <a href="#">Walking with a Cane or Crutches, etc.</a>                |
| 04    | <a href="#">Paraplegic or in a Wheelchair</a>                        |
| 05    | <a href="#">Impaired Due to Previous Injury</a>                      |
| 06    | <a href="#">Deaf</a>                                                 |
| 07    | <a href="#">Blind</a>                                                |
| 08    | <a href="#">Emotional (Depressed, Angry, Disturbed, etc.)</a>        |
| 09    | <a href="#">Under the Influence of Alcohol, Drugs, or Medication</a> |
| 10    | <a href="#">Physical Impairment - No Details</a>                     |
| 96    | <a href="#">Other Physical Impairment</a>                            |
| 98    | <a href="#">Not Reported</a>                                         |
| 99    | <a href="#">Reported as Unknown if Impaired</a>                      |

**Definition:** This element identifies physical impairments to this driver or non-motorist that may have contributed to the cause of the crash as identified by law enforcement.

**Remarks:** Select all that apply. These impairments can appear anywhere in the case material (in the narrative section, in the violations section, in a column entitled “Contributing Factors,” or “Driver Action,” etc.). See clarification on the use of information provided by witnesses in section [103. Data Sources](#).

### 00 (None/Apparently Normal) is used when:

- When the case material make a positive statement that the individual was apparently normal, or “none” was indicated on the police crash report.
- When the case material does not indicate an impairment in an available field and not reporting an impairment in that field indicates **00 (None/Apparently Normal)**.
- When the investigating officer:
  - is limited in the number of factors that can be displayed, and
  - cannot select an impairment in addition to another factor relevant to the crash, and



- some other factor is selected, and
- no other indication of impairment exists in the case material.

- **For omission of information see [98 \(Not Reported\)](#) guidance below.**

**01 (Ill, Blackout)** is used when indicated in the case material. Enter this attribute even if the source of the illness or loss of consciousness is alcohol or drug related. Use this attribute if the driver or non-motorist had fainted and/or seizures were identified.

**02 (Asleep or Fatigued)** is used when indicated in the case material. Also, use this attribute when the investigating officer indicates the person was drowsy or sleepy. Alcohol or other drugs may be the source of this impairment.

**03 (Walking with a Cane or Crutches, etc.)** is used when non-motorist is walking with a cane, walker, knee scooter, or crutches when indicated in the case material.

**04 (Paraplegic or in a Wheelchair)** is used if this person is paraplegic or in a wheelchair. This includes motorized and non-motorized wheelchairs and *mobility aid* scooters.

**05 (Impaired Due to Previous Injury)** is used if the case material dictate this condition (e.g., if a person is involved in this crash subsequent to his/her involvement in a previous crash in which the person was injured). This attribute should be extremely rare.

**06 (Deaf)** is used when this person *is deaf or hard of hearing. The case material may also use the term hearing-impaired.*

**07 (Blind)** is used when this person *is blind or visually impaired.*

**08 (Emotional [Depressed, Angry, Disturbed, etc.])** is used when the person is arguing with someone, is having a disagreement, is depressed, and/or is emotionally upset.

**09 (Under the Influence of Alcohol, Drugs, or Medication)** is used when the investigating officer indicates that the individual was under the influence of alcohol, drugs, or medication. This attribute excludes interpretation of test results by the analyst/coder.

**10 (Physical Impairment - No Details)** is used when the case material indicate a physical impairment existed but provide no further details about the impairment.

**96 (Other Physical Impairment)** is used when the case material indicate that a physical impairment was involved but it isn't a listed attribute.

**98 (Not Reported)** *Check to see if [00 \(None/Apparently Normal\)](#) or [99 \(Reported as Unknown if Impaired\)](#) are more appropriate for the situation.*

If a State's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported.**"

Code **98 (Not Reported)** in these two situations:

1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any FARS/CRSS

attribute AND no other information is available to code the element (e.g., narrative, diagram, case material).

**99 (Reported as Unknown if Impaired)** is used if the investigating officer states that the physical impairment of this person is unknown.

**Consistency Checks** [\(See Section 400\)](#):

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                         | <b>THEN</b>                                                                                                         |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| <b>3D80</b>     | <b><i>CRITICAL EVENT: PRECRASH (EVENT) equals 08 for this vehicle, and CONDITION (IMPAIRMENT) AT TIME OF CRASH equals 09 for this vehicle's driver, and RELATED FACTORS - PERSON (MV OCCUPANT) LEVEL for this vehicle is not equal 005 for any occupants of this vehicle,</i></b> | <b><i>another CONDITION (IMPAIRMENT) AT TIME OF CRASH for this vehicle's driver should equal 01.</i></b>            |
| 4X2F            | any CONDITION (IMPAIRMENT) AT TIME OF CRASH (D23) equals 00 or 98 or 99,                                                                                                                                                                                                          | only that one code and no other must be coded for this driver.                                                      |
| 4X4F            | any CONDITION (IMPAIRMENT) AT TIME OF CRASH (D23) equals 09,                                                                                                                                                                                                                      | POLICE REPORTED ALCOHOL INVOLVEMENT (P16) or POLICE REPORTED DRUG INVOLVEMENT (P19) should equal 1 for this person. |
| 6H1P            | DRIVER PRESENCE equals 0, 9,                                                                                                                                                                                                                                                      | CONDITION (IMPAIRMENT) AT TIME OF CRASH (D23) must be blank.                                                        |
| B17P            | CONDITION (IMPAIRMENT) AT TIME OF CRASH (D23) equals 09 for this driver,                                                                                                                                                                                                          | CRITICAL EVENT: PRECRASH (EVENT) should not equal 08 for this driver's vehicle.                                     |
| D5B0            | any VIOLATIONS CHARGED equal 11-13, 18, 19,                                                                                                                                                                                                                                       | at least one CONDITION (IMPAIRMENT) AT TIME OF CRASH (D23) should equal 09.                                         |
| U530            | UNLIKELY: any CONDITION (IMPAIRMENT) AT TIME OF CRASH (D23) equals 03, 05, or 07.                                                                                                                                                                                                 | --                                                                                                                  |
| U682            | UNLIKELY: CRITICAL EVENT: PRECRASH (EVENT) equals 08 for this vehicle and CONDITION (IMPAIRMENT) AT TIME OF CRASH (D23) does not equal 01 for this vehicle's driver.                                                                                                              | --                                                                                                                  |

## D24 - Related Factors - Driver Level

**FORMAT:** 3 numeric. *Select All That Apply.*

**SAS NAME:** *DriverRF.DRIVERRF*

**ELEMENT VALUES:**

| Codes | Attributes           |
|-------|----------------------|
| 000   | <a href="#">None</a> |

### Physical/Mental Condition:

| Codes | Attributes                                                                                                 |
|-------|------------------------------------------------------------------------------------------------------------|
| 006   | <a href="#">Careless Driving, <i>Inattentive Operation, Improper Driving, Driving Without Due Care</i></a> |
| 008   | <a href="#">Aggressive Driving/Road Rage</a>                                                               |
| *013  | <a href="#">Mentally Challenged</a>                                                                        |
| *004  | <a href="#">Reaction to or Failure to Take Drugs/Medication</a>                                            |
| *012  | <a href="#">Mother of Dead Fetus/Mother of Infant Born Post Crash</a>                                      |

### Miscellaneous Factors:

| Codes | Attributes                                                                                            |
|-------|-------------------------------------------------------------------------------------------------------|
| *015  | <a href="#">Seat Back Not in Normal Upright Position, Seat Back Reclined</a>                          |
| 018   | <a href="#">Traveling on Prohibited Trafficways</a>                                                   |
| *019  | <a href="#">Legally Driving on Suspended or Revoked License</a>                                       |
| 020   | <a href="#">Leaving Vehicle Unattended with Engine Running, Leaving Vehicle Unattended in Roadway</a> |
| 021   | <a href="#">Overloading or Improper Loading of Vehicle with Passengers or Cargo</a>                   |
| 022   | <a href="#">Towing or Pushing Improperly</a>                                                          |
| 023   | <a href="#">Failure to Dim Lights or to Have Lights on When Required</a>                              |
| 024   | <a href="#">Operating Without Required Equipment</a>                                                  |
| *026  | <a href="#">Following Improperly</a>                                                                  |
| *027  | <a href="#">Improper or Erratic Lane Changing</a>                                                     |
| *028  | <a href="#">Improper Lane Usage</a>                                                                   |
| 029   | <a href="#">Intentional Illegal Driving Off the Roadway</a>                                           |
| *030  | <a href="#">Making Improper Entry to or Exit from Trafficway</a>                                      |
| *031  | <a href="#">Starting or Backing Improperly</a>                                                        |
| 032   | <a href="#">Opening Closure into Moving Traffic or While Vehicle is in Motion</a>                     |

| Codes | Attributes                                                                                                                                   |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------|
| *033  | <a href="#">Passing Where Prohibited by Posted Signs, Pavement Markings, or School Bus Displaying Warning Not to Pass</a>                    |
| *034  | <a href="#">Improper Passing Location</a>                                                                                                    |
| *035  | <a href="#">Passing with Insufficient Distance, or Inadequate Visibility, or Failing to Yield to Overtaking Vehicle</a>                      |
| 036   | <a href="#">Operating the Vehicle in an Erratic, Reckless, or Negligent Manner</a>                                                           |
| 016   | <a href="#">Police or Law Enforcement Officer</a>                                                                                            |
| 037   | <a href="#">Police Pursuing This Driver or Police Officer in Pursuit</a>                                                                     |
| 094   | <a href="#">Emergency Medical Services Personnel</a>                                                                                         |
| 095   | <a href="#">Fire Personnel</a>                                                                                                               |
| 096   | <a href="#">Tow Operator</a>                                                                                                                 |
| 097   | <a href="#">Transportation</a> (i.e., maintenance workers, safety service patrol operators, etc.)                                            |
| *038  | <a href="#">Failure to Yield Right-of-Way</a>                                                                                                |
| *039  | <a href="#">Failure to Obey Actual Traffic Signs, Traffic Control Devices, or Traffic Officers. Failure to Obey Safety Zone Traffic Laws</a> |
| *040  | <a href="#">Passing Through or Around Barrier</a>                                                                                            |
| *041  | <a href="#">Failure to Observe Warnings or Instructions on Vehicles Displaying Them</a>                                                      |
| *042  | <a href="#">Failure to Signal Intentions</a>                                                                                                 |
| *045  | <a href="#">Driving Less Than Posted Minimum</a>                                                                                             |
| *047  | <a href="#">Making Right Turn from Left-Turn Lane, Left Turn from Right-Turn Lane</a>                                                        |
| *048  | <a href="#">Making Other Improper Turn</a>                                                                                                   |
| 050   | <a href="#">Driving Wrong Way on One-Way Trafficway</a>                                                                                      |
| 051   | <a href="#">Driving on Wrong Side of Two-Way Trafficway (Intentional or Unintentional)</a>                                                   |
| *052  | <a href="#">Operator Inexperience</a>                                                                                                        |
| *053  | <a href="#">Unfamiliar with Roadway</a>                                                                                                      |
| 054   | <a href="#">Stopped in Roadway (Vehicle Not Abandoned)</a>                                                                                   |
| 055   | <a href="#">Improper Management of Vehicle Controls (Specify:)</a>                                                                           |
| 056   | <a href="#">Object Interference with Vehicle Controls (Specify:)</a>                                                                         |
| 057   | <a href="#">Driving with Tire-Related Problems</a>                                                                                           |
| 058   | <a href="#">Overcorrecting</a>                                                                                                               |
| 059   | <a href="#">Getting Off/Out of a Vehicle</a>                                                                                                 |
| 060   | <a href="#">Alcohol and/or Drug Test Refused</a>                                                                                             |
| 010   | <a href="#">Looked But Did Not See</a>                                                                                                       |

### Special Circumstances:

| Codes | Attributes                                                                                                                   |
|-------|------------------------------------------------------------------------------------------------------------------------------|
| *073  | <a href="#">Driver Has Not Complied with Learner's Permit or Intermediate Driver License Restrictions (GDL Restrictions)</a> |
| *074  | <a href="#">Driver Has Not Complied with Physical or Other Imposed Restrictions (not including GDL Restrictions)</a>         |
| *089  | <a href="#">Driver has a Driving Record or Driver's License from More Than One State</a>                                     |
| 091   | <a href="#">Non-Traffic Violation Charged (manslaughter, homicide, or other assault offense committed without malice)</a>    |

### Skidding, Swerving, Sliding Due To:

| Codes | Attributes                                                                   |
|-------|------------------------------------------------------------------------------|
| *077  | <a href="#">Severe Crosswind</a>                                             |
| *078  | <a href="#">Wind from Passing Truck</a>                                      |
| *079  | <a href="#">Slippery or Loose Surface</a>                                    |
| *080  | <a href="#">Tire Blowout or Flat</a>                                         |
| *081  | <a href="#">Debris or Objects in Road</a>                                    |
| *082  | <a href="#">Ruts, Holes, Bumps in Road</a>                                   |
| *083  | <a href="#">Live Animals in Road</a>                                         |
| *084  | <a href="#">Vehicle in Road</a>                                              |
| *085  | <a href="#">Phantom Vehicle</a>                                              |
| *086  | <a href="#">Pedestrian, Pedal Cyclist, or Other Non-Motorist</a>             |
| *087  | <a href="#">Ice, Snow, Slush, Water, Sand, Dirt, Oil, Wet Leaves on Road</a> |
| *088  | <a href="#">Trailer Fishtailing or Swaying</a>                               |

### Unknown:

| Codes | Attributes                          |
|-------|-------------------------------------|
| 999   | <a href="#">Reported as Unknown</a> |

#### **\* FARS ONLY ATTRIBUTES**

**Definition:** This element identifies factors related to this driver expressed in the case material.

**Remarks:** Code information provided in the case material. This is a nominal list only and does NOT imply a hierarchy.

**NOTE: RELATED FACTORS-DRIVER LEVEL SHOULD BE CODED ONLY FOR "IN-TRANSPORT VEHICLES" ([UNIT TYPE "1"](#)).**

**RELATED FACTORS FOR MOTOR VEHICLE OCCUPANTS OTHER THAN DRIVERS OF “IN-TRANSPORT” VEHICLES SHOULD BE CODED UNDER [RELATED FACTORS-PERSON \(MV OCCUPANT\) LEVEL](#) (INCLUDING ALL OCCUPANTS IN [UNIT TYPES 2, 3, AND 4](#)).**

**000 (None)** is used when no applicable related factors are noted in the case material.

***Physical/Mental Condition:***

**006 (Careless Driving, Inattentive Operation, Improper Driving, Driving Without Due Care)** is used when the case material include a factor or note a violation indicating careless driving.

**Examples include:**

- Driving without due care.
- Operating a motor vehicle in a careless manner.
- Failure to give full time and attention.
- Inattentive operation.

**008 (Aggressive Driving/Road Rage)** is used when the case material include a factor or note a violation identifying aggressive driving behavior. The officer must use the term “Aggressive” **or** “Road Rage” in describing this driver’s behavior.

**\*013 (Mentally Challenged)** is used when the case material identifies this person has an *intellectual, cognitive, or developmental disability*.

**\*004 (Reaction to or Failure to Take Drugs/Medication)** is used when the case material identifies that this driver had an allergic reaction to medication/drugs, a reaction to drug interaction (over the counter and/or prescribed), or if there is information identifying that the driver failed to take required medication.

**\*012 (Mother of Dead Fetus/Mother of Infant Born Post Crash)** is used when the case material identifies that this driver is the mother of a fetus that died in or as a result of this crash or it is identified that this driver gave birth after the crash whether the child survives or not. Note that for crash classification purposes, a fetus is considered to be part of a pregnant woman rather than a separate individual and, thus, is not counted as a separate occupant in the crash.

***Miscellaneous Factors:***

**\*015 (Seat Back Not in Normal Upright Position, Seat Back Reclined)** is used when the case material identifies that this driver’s seat back was not in a normal, safe driving position prior to the crash.

**018 (Traveling on Prohibited Trafficways)** is used when the case material identifies this driver was driving on an open trafficway that prohibited travel for the kind of vehicle they were operating. For example, driving a moped on an interstate, driving a truck where prohibited, or operating a vehicle with hazardous materials cargo where prohibited. For trucks or slower vehicles using the left lane when prohibited, use [28 \(Improper Lane Usage\)](#).

**\*019 (Legally Driving on Suspended or Revoked License)** is used when the case material identifies this driver’s license was suspended/revoked but they were legally driving at the time of

the crash. For example, occupational restricted licenses typically allow drivers to drive to work, school, community service, or certain other activities, with restrictions including the times of day, days of week, and areas to which they may drive. Drivers whose licenses have been suspended or revoked for certain alcohol- or drug-related offenses can apply for ignition interlock restricted licenses. These licenses permit them to drive if they use an ignition interlock device, which tests breath for alcohol consumption, installed in their car.

**020 (Leaving Vehicle Unattended with Engine Running. Leaving Vehicle Unattended in Roadway)** is used when the case material identifies this driver took improper actions where their vehicle was left in a location intentionally and the driver was not present in or in close proximity to the vehicle.

**Examples include:**

- Leaving the vehicle curbside or in a driveway with a running engine.
- Abandoning a non-running vehicle in the middle of traffic.
- “Double-parked.”
- “Parked on a bridge or tunnel.”
- “Parking within an intersection.”

**021 (Overloading or Improper Loading of Vehicle with Passengers or Cargo)** is used when the case material identifies this driver improperly loaded the vehicle occupants or cargo into or on the vehicle.

**Examples include:**

- The vehicle had more than 3 passengers in the front seat.
- There were people riding on the exterior of the vehicle.
- The vehicle was carrying occupants that were sitting or standing on the rails, tailgate of a pickup, or improperly sitting in the bed of a pickup.
- More than one person secured in a belt restraint.
- An unsecured or uncovered load violation.
- The vehicle’s trunk was open with extra-large cargo protruding.
- The case material states the vehicle was overweight, over length, or illegally or improperly oversize.

**022 (Towing or Pushing Improperly)** is used when the case material identifies this driver was operating the vehicle that was towing another vehicle with an improper connection (e.g., by rope or cable) or was pushing another vehicle in a dangerous manner (e.g., bumper to bumper).

**023 (Failure to Dim Lights or to Have Lights on When Required)** is used when the case material identifies this driver failed to use proper headlight beams, failed to reduce high beams for an approaching vehicle or when following another vehicle, or used fog lights when prohibited.

**Examples include:**

- The vehicle has its headlamps adjusted improperly causing glare.
- The vehicle failed to have its headlights on in a tunnel.
- A motorcycle not using lights as required.

**024 (Operating Without Required Equipment)** is used when the case material identifies this driver was operating the vehicle without a required piece of equipment or with required equipment being inoperable. For seatbelts, child restraints, and motorcycle helmets, do not use this attribute when there is indication that an available restraint was not used (i.e., Police Crash Report Restraint Use box is marked as “Not Used”).

**Examples include:**

- Defective or no lamps, brakes, mirrors, muffler, flares, wipers, horn, snow tires, chains, etc.
- A vehicle does not have extended side mirrors when required (e.g., when pulling a trailer).
- A vehicle driving in snow without snow tires when required.
- If the seatbelts have been removed from the vehicle.
- If there was no child safety seat(s) in the vehicle when required for the occupant(s).
- For a motorcycle rider that had no helmet with them when required by law.
- If the vehicle failed to have an air bag(s) reinstalled after a prior crash.

**\*026 (Following Improperly)** is used when the case material identifies this driver followed too closely.

**Examples include:**

- Following a fire truck too closely.
- Failure to maintain a safe passing distance between trucks.
- Following another vehicle in a caravan too closely to allow entry by a merging vehicle.
- Following too close, generally. Also, code for cases where the case material document the vehicle was following too closely for weather conditions.

**NOTE: 026 (Following Improperly)** denotes “after or before the process of lane change” while **027 (Improper or Erratic Lane Changing)** signifies “in the process.”

**\*027 (Improper or Erratic Lane Changing)** is used when the case material identifies this driver was making unsafe lane changes or failed to obey a “no lane change” sign or pavement



marking prohibiting lane change. This may also be used in cases where the officer states the vehicle was weaving in and out of traffic.

**\*028 (Improper Lane Usage)** is used when the case material identifies this driver failed to properly keep their vehicle in the appropriate lane of travel. This attribute does not apply to vehicles that run off the roadway, cross the median, *or exhibit control loss before crossing the centerline*. Also do not use this value for a vehicle that leaves its lane because of a previous impact or at the direction of a flagman or police officer. For situations where the vehicle is on the wrong side as a result of a passing maneuver, see [033 \(Passing Where Prohibited by Posted Signs, Pavement Markings, or School Bus Displaying Warning Not to Pass\)](#). See [051 \(Driving on Wrong Side of Two-Way Trafficway \[Intentional or Unintentional\]\)](#) for Driving on Wrong Side of Road.

**Examples include:**

- A vehicle that “drove left of center” striking an oncoming vehicle (includes both crossing a painted centerline and failing to maintain the proper side of a 2-lane roadway with no painted centerline.)
- A vehicle that goes straight in a turn lane.
- A vehicle that was using more than one lane on its side of a multi-lane highway.
- Trucks, buses, or slow vehicles failing to keep right for faster moving traffic.

**029 (Intentional Illegal Driving Off the Roadway)** is used when the case material identifies this driver was intentionally illegally driving in a location off the roadway (shoulder, median, roadside, etc.). This attribute should not be used when the vehicle enters one of these locations as part of an avoidance maneuver or as a result of a critical or harmful event. Also do not use this value for a vehicle that leaves its lane at the direction of a flagman or police officer.

**\*030 (Making Improper Entry to or Exit from Trafficway)** is used when the case material identifies this driver made an improper entry to or exit from the trafficway. For improper entry of the roadway from a parked or stopped position see [031 \(Starting or Backing Improperly\)](#).

**Examples include:**

- Driving onto or from a controlled access highway where prohibited.
- A vehicle entering a highway from a roadside location like a front yard, adjacent pasture, or field.
- A vehicle entering a highway on an exit ramp or exiting on an entrance ramp.

**\*031 (Starting or Backing Improperly)** is used when the case material identifies this driver improperly entered the roadway from a parked or stopped position or improperly backed the vehicle in the roadway.

**Examples include:**

- Making an unsafe start from a parked position.
- Backing up on a one-way roadway.
- Starting onto a highway from a parked position on the shoulder.

**032 (Opening Closure into Moving Traffic or While Vehicle is in Motion)** is used when the case material identifies this driver improperly opened their door into moving traffic. This would include opening the trunk while the vehicle is in-transport.

**\*033 (Passing Where Prohibited by Posted Signs, Pavement Markings, or School Bus Displaying Warning Not to Pass)** is used when the case material identifies this driver passed improperly by executing a passing maneuver where prohibited as designated by traffic controls or rules of the road.

**Examples include:**

- A vehicle passing a stopped school bus.
- A vehicle crossing over the solid line to pass another vehicle.
- Passing a vehicle stopped to allow a pedestrian movement.

**\*034 (Improper Passing Location)** is used when the case material identifies this driver was passing *in a prohibited location*.

**Examples include:**

- *A vehicle passing on the right side where it is prohibited.*
- *A vehicle passing on the right or left shoulder, emergency lane, or roadside.*
- *A vehicle passing in the median.*
- *A motorcycle passing on the left or right within the same lane as the vehicle it is passing (in a State where lane splitting, filtering, and/or sharing is not permitted).*  
*NOTE: If your State does not prohibit lane splitting, filtering, and/or sharing, do NOT use 034 (Improper Passing Location) for this situation.*

**\*035 (Passing with Insufficient Distance, or Inadequate Visibility, or Failing to Yield to Overtaking Vehicle)** is used when the case material identifies this driver exercised faulty judgment when passing or being passed.

**Examples include:**

- A vehicle passing uphill or in a curve that limits visibility.
- Cutting off the other vehicle while passing or being passed.

**036 (Operating the Vehicle in an Erratic, Reckless, or Negligent Manner)** is used when the case material identifies this driver was operating the vehicle in an erratic, reckless, or negligent manner. These are circumstances where the driver is engaged in a driving behavior with willful or wanton disregard for safety. This attribute can be used in conjunction with other factors but must be explicitly stated on the police record.

**Examples include:**

- Driving erratically.
- Erratic lane changing.
- Suddenly changing speed.
- *Motorcyclist doing wheelies (aka "popping" wheelies)*

**016 (Police or Law Enforcement Officer)** is used when the case material identifies this driver was a Federal, State, or local law enforcement officer working at the time of the crash. This attribute also includes military and park police, border patrol, and all other sworn law enforcement officers.

**037 (Police Pursuing This Driver or Police Officer in Pursuit)** is used when the case material identifies this driver was fleeing from or attempting to elude the police, or this driver is a police officer engaged in a “pursuit” that is active at the time of crash. For a case where both the fleeing driver and pursuing officer are in-contact vehicles, this factor is used for both drivers. Identify the officer using factor [016 \(Police or Law Enforcement Officer\)](#). Also see RELATED FACTORS-CRASH LEVEL [020 \(Police Pursuit Involved\)](#).

**Definition of Police Pursuit:** A pursuit is an event that is initiated when a law enforcement officer, operating an authorized emergency vehicle, gives notice to stop (either through the use of visual or audible emergency signals or a combination of emergency devices) to a motorist who the officer is attempting to apprehend, and that motorist fails to comply with the signal by either maintaining his/her speed, increasing speed, or taking other evasive action to elude the officer’s continued attempts to stop the motorist. A pursuit is terminated when the motorist stops, or when the attempt to apprehend is discontinued by the officer, or at the direction of a competent authority.

**094 (Emergency Medical Services Personnel)** is used when the case material identifies that this person was described as emergency medical services (EMS) personnel. This includes personnel located in the cab and in the treatment compartment of an ambulance.

**095 (Fire Personnel)** is used when the case material identifies that this person was fire personnel.

**096 (Tow Operator)** is used when the case material identifies that this person was an operator of a tow truck.

**097 (Transportation (i.e., maintenance workers, safety service patrol operators, etc.))** is used when the case material indicate this person was working to assist with detouring traffic, maintaining roadway damage, or a safety service patrol operator, etc.

**\*038 (Failure to Yield Right-of-Way)** is used when the case material identifies this driver failed to yield the right-of-way.

**Examples include:**

- Failure to yield to pedestrian in a crosswalk.
- Failure to yield at an intersection or merge.
- Failure to yield to emergency vehicles.
- Failure to yield to streetcar already in intersection.

**\*039 (Failure to Obey Actual Traffic Signs, Traffic Control Devices, or Traffic Officers, Failure to Obey Safety Zone Traffic Laws)** is used when the case material identifies this driver failed to obey an applicable traffic control device (sign or signal), traffic officer, or traffic safety zone laws. If a driver stops as required but then fails to yield, use code [038 \(Failure to Yield Right-of-Way\)](#) and not **039 (Failure to Obey Actual Traffic Signs, Traffic Control Devices, or Traffic Officers, Failure to Obey Safety Zone Traffic Laws)**.

**Examples include:**

- Failure to obey flashing signal.
- Violation of “No Turn on Red.”
- Failure to obey lane use control signal.
- Failure to obey stop signs.
- Failure to obey yield sign (use both codes [038 \(Failure to Yield Right-of-Way\)](#) and **039 (Failure to Obey Actual Traffic Signs, Traffic Control Devices, or Traffic Officers, Failure to Obey Safety Zone Traffic Laws)**).
- Passing around railroad gates.
- When vehicle does not stop when required by a traffic signal.

**\*040 (Passing Through or Around Barrier)** is used when the case material identifies this driver was driving in a prohibited area (play street, construction, etc.). This would denote “demarcated” areas. For driving around a railroad gate use [039 \(Failure to Obey Actual Traffic Signs, Traffic Control Devices, or Traffic Officers, Failure to Obey Safety Zone Traffic Laws\)](#).

**\*041 (Failure to Observe Warnings or Instructions on Vehicles Displaying Them)** is used when the case material identifies this driver failed to heed warnings or follow instructions displayed on other vehicles.

**Examples include:**

- Construction instructions such as arrows directing traffic mounted on a vehicle.
- Instructions on or warnings by emergency vehicles (ambulances, fire trucks, police cars).
- Failure to observe a wide right-turn warning on trucks or buses.
- Failure to heed hazard lights on a disabled vehicle or a school bus arm.

**\*042 (Failure to Signal Intentions)** is used when the case material identifies this driver failed to signal their intentions. This attribute includes a failure to signal by either lamp turn signal or hand.

**\*045 (Driving Less Than Posted Minimum)** is used when the case material identifies this driver was driving too slowly, or so as to impede traffic.

**\*047 (Making Right Turn from Left-Turn Lane, Left Turn from Right-Turn Lane)** is used when the case material identifies this driver was making an improper turn from a turn lane. To

distinguish from [027 \(Improper or Erratic Lane Changing\)](#) and [028 \(Improper Lane Usage\)](#), police officer must indicate the driver's intention to turn to use this attribute.

**\*048 (Making Other Improper Turn)** is used when the case material identifies this driver made a turn that was improper because it was unsafe, poorly executed, or in bad judgment. This attribute excludes turns that are improper because they are prohibited (e.g., No Right on Red, turning left in violation of a traffic signal). A roadway departure is not an indication of an improper turn in and of itself.

**Examples include:**

- A “too wide” right or left turn.
- An unsafe U-turn (from the shoulder, etc.).

**050 (Driving Wrong Way on One-Way Trafficway)** is used when the case material identifies this driver was driving in the wrong direction on a one-way trafficway. If this is a divided highway, although each side is “one-way,” driving against traffic should be coded as **051 (Driving on Wrong Side of Two-Way Trafficway [Intentional or Unintentional])**. If the vehicle was going the wrong way on an entrance or exit ramp, also use [030 \(Making Improper Entry to or Exit from Trafficway\)](#).

**051 (Driving on Wrong Side of Two-Way Trafficway [Intentional or Unintentional])** is used when the case material identifies this driver was established in and driving on the wrong side of the highway. “Unintentional” means they may not be aware they are on the wrong side. For situations where a driver unintentionally crosses the centerline, see [028 \(Improper Lane Usage\)](#). For situations where the vehicle is on the wrong side as a result of a passing maneuver, see [\\*033 \(Passing Where Prohibited by Posted Signs, Pavement Markings, or School Bus Displaying Warning Not to Pass\)](#), or [\\*035 \(Passing with Insufficient Distance, or Inadequate Visibility, or Failing to Yield to Overtaking Vehicle\)](#).

**Examples include:**

- Driving the wrong way/on the wrong side of a divided trafficway.
- Driving on the wrong side of an undivided trafficway.
- Driving the wrong way on a Rotary Intersection.
- Driving on the left half of approaching bridge or tunnel.

**\*052 (Operator Inexperience)** is used when the case material identifies this driver lacks experience operating the vehicle they were driving at the time of the crash. Should be expressed by officer, driver, or passenger and not presumed based on age, rental status, or State of residence.

**Examples include:**

- A *novice* driver.
- A driver inexperienced in the operation of a large truck or bus (based on the judgment of the police officer).
- A person driving a rental car where they are unfamiliar with the vehicle.

**\*053 (Unfamiliar with Roadway)** is used when the case material identifies this driver is unfamiliar with the area/location where they were driving when the crash occurred. Should be expressed by officer, driver, or passenger and not presumed based on age, rental status, or State of residence.

**Examples include:**

- A driver from out-of-State unfamiliar with area.
- A driver operating on a new stretch of road or section of road altered because of construction and/or detour.

**054 (Stopped in Roadway [Vehicle Not Abandoned])** is used when the case material identifies this driver stopped their vehicle in the roadway/travel lanes. It is intended to capture an unusual condition where a vehicle is stopped in the roadway with the driver present in or in close proximity to the vehicle. It includes both a vehicle in the process of stopping and “stopped” vehicles. It **excludes** typical “stopping” situations such as stopping in/for traffic, waiting to turn, or stopping for a traffic control.

**Examples include:**

- A vehicle disabled in a prior crash.
- A vehicle with a flat tire.
- A vehicle that stops for debris in the roadway, etc.

**055 (Improper Management of Vehicle Controls (SPECIFY:))** is used for driver errors related to accelerating/braking/gear selection, etc. (reverse instead of forward, forward instead of reverse, accelerator instead of brake, unspecified pedal error, etc.).

**\*Note: For attributes with a “Specify:” designation,** a fill-in text box will open in **RBIS**. This text box should be used to provide additional detail about the attribute selection. Please include a specific reason for this selection.

**056 (Object Interference with Vehicle Controls (SPECIFY:))** is used for items reported to have interfered with the driver’s operation of the vehicle controls (footwear interfered with pedals, floor mat interfered with pedals, loose cargo interfered with pedals, etc.).

**\*Note: For attributes with a “Specify:” designation,** a fill-in text box will open in **RBIS**. This text box should be used to provide additional detail about the attribute selection. Please include a specific reason for this selection.

**057 (Driving with Tire-Related Problems)** is used when the officer noted this driver was driving with a “donut”/spare tire, improperly sized tire(s), driving on run flats in an air-out situation, etc. ***See the table below for comparison examples between this attribute and CONTRIBUTING CIRCUMSTANCES, MOTOR VEHICLE code 01 (Tires).***

**Example Coding Situations for RELATED FACTORS - DRIVER LEVEL 057 (Driving with Tire Related problems) and CONTRIBUTING CIRCUMSTANCES MOTOR VEHICLE 01 (Tires)**

| <i>Example Situations</i>                                                                                             | <i>RELATED FACTORS -<br/>DRIVER LEVEL 057<br/>(Driving with Tire-Related<br/>Problems)</i> | <i>CONTRIBUTING<br/>CIRCUMSTANCES<br/>MOTOR VEHICLE <u>01</u><br/>(Tires)</i> |
|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| <i>Officer notes driving with a “donut” or spare tire on the vehicle.</i>                                             | X                                                                                          |                                                                               |
| <i>Officer notes improperly sized tires on the vehicle</i>                                                            | X                                                                                          |                                                                               |
| <i>Officer notes the tires are “run flat” tires and have been punctured but the Driver was still driving on them.</i> | X                                                                                          |                                                                               |
| <i>Officer notes “Tires” in a Contributing Circumstances report field.</i>                                            |                                                                                            | X                                                                             |
| <i>Officer notes bald tires or insufficient tread on the vehicle.</i>                                                 |                                                                                            | X                                                                             |
| <i>Officer notes lost or losing re-tread on a tire or tires on the vehicle.</i>                                       |                                                                                            | X                                                                             |
| <i>Officer notes improper tire pressure or under-inflated tires (not “run flat” tires in an air out situation)</i>    |                                                                                            | X                                                                             |
| <i>Officer notes bald tires and a “donut” or spare tire on the vehicle.</i>                                           | X                                                                                          | X                                                                             |

**058 (Overcorrecting)** is used when the case material identifies this driver “overcorrected” based on the judgment of the police officer. This must be stated by the officer in the narrative or police crash report field to be coded. Overcorrecting and Oversteering are technically different, but this attribute may be selected for a reported combination of the two (e.g., overcorrecting/oversteering) on the police crash report.

**059 (Getting Off/Out of a Vehicle)** is used when the case material identifies this driver was attempting to exit the vehicle when involved in the crash. It applies for either moving or non-moving vehicles.

**060 (Alcohol and/or Drug Test Refused)** is used when the officer notes that this person refused to take an alcohol and/or a drug test. Refusing a test does not necessarily mean that a test was not given. It is possible that after a refusal, the officer may have obtained a warrant or some other authorization to administer a test post-refusal. This includes when the person initially refuses and later consents. Because of this, it is possible to code **060 (Alcohol and/or Drug Test Refused)** and also code an actual test with results for the same person.

**010 (Looked But Did Not See)** is used when the driver is paying attention to driving (not distracted), but does not see the relevant vehicle, object, etc. This attribute should be used when a

driver has an opportunity to take some action prior to impact, but the driver takes no action and no distractions apply under [DRIVER DISTRACTED BY](#). This situation frequently occurs when an overtaking vehicle is in the driver's "blind spot" or at intersections when a crossing vehicle is not noticed.

### ***Skidding, Swerving, Sliding Due To:***

This set of attributes is applicable to the driver that attempted to avoid one of the following or whose ability to control the vehicle was affected by one of the following.

**\*077 (Severe Crosswind)** is used when the case material identifies this driver's ability to control the vehicle was affected by severe crosswinds.

**\*078 (Wind from Passing Truck)** is used when the case material identifies this driver's ability to control the vehicle was affected by winds produced by a passing truck.

**\*079 (Slippery or Loose Surface)** is used when the case material identifies this driver's ability to control the vehicle was affected by the surface composition of the roadway and/or the condition of that composition. Not to be used when the surface is slippery due to environment conditions such as rain, ice, or snow (see [087 \(Ice, Snow, Slush, Water, Sand, Dirt, Oil, or Wet Leaves on Road\)](#)).

#### **Examples include:**

- A slippery surface that is old or worn resulting in loose gravel on the roadway.
- Blacktop that is slick as a newly paved surface.

**\*080 (Tire Blowout or Flat)** is used when the case material identifies this driver's ability to control the vehicle was affected by a tire blowout or flat.

**\*081 (Debris or Objects in Road)** is used when the case material identifies this driver attempted to avoid or lost control as a result of debris in the road. Examples would include nails, glass, trash cans, tire retread, trash, dead animals, pile of sand, barricades, etc.

**\*082 (Ruts, Holes, Bumps in Road)** is used when the case material identifies this driver attempted to avoid or lost control as a result of road surface anomalies such as ruts, holes, dips, or bumps.

**\*083 (Live Animals in Road)** is used when the case material identifies this driver attempted to avoid or lost control as a result of a live animal(s) that was in the road.

**\*084 (Vehicle in Road)** is used when the case material identifies this driver attempted to avoid or lost control as a result of another vehicle in the road. This includes both contact and non-contact vehicles that remain at the scene.

**\*085 (Phantom Vehicle)** is used when the case material identifies this driver attempted to avoid or lost control as a result of a non-contact vehicle that left the scene as described by the police officer.

**\*086 (Pedestrian, Pedal Cyclist, or Other Non-Motorist)** is used when the case material identifies this driver attempted to avoid or lost control as a result of a pedestrian, a pedalcyclist, or other type of non-motorist.



**\*087 (Ice, Snow, Slush, Water, Sand, Dirt, Oil, or Wet Leaves on Road)** is used when the case material identifies this driver's ability to control the vehicle was affected by a substance on the roadway that caused the roadway to be slick, which may interfere with the traction of the vehicle. This attribute does not include part of the roadway composition. For cases involving roadway composition issues, see [079 \(Slippery or Loose Surface\)](#).

**\*088 (Trailer Fishtailing or Swaying)** is used when the case material identifies this driver's ability to control the vehicle was affected by a trailer fishtailing or swaying. This condition may or may not result in a jackknife.

***Special Circumstances (073, 074, 089, 091):***

**\*073 (Driver Has Not Complied with Learner's Permit or Intermediate Driver License Restrictions [GDL Restrictions])** is used when the case material identifies this driver was a young driver and was not in compliance with a Learner's Permit or Intermediate Driver License restriction under a State's Graduated Driver's License (GDL) program.

**Examples include:**

- Nighttime driving restrictions (e.g., midnight until 6:00 am).
- Unsupervised driving restrictions (e.g., the driver must have a passenger over the age of 21 to legally drive the vehicle).
- Passenger Restriction (e.g., the driver is only allowed one other passenger in the vehicle when driving).

This should **not** be used for restrictions for eyeglasses, lenses, equipment, or other physical restrictions (see **074 (Driver Has Not Complied with Physical or Other Imposed Restrictions [not including GDL Restrictions])**).

**\*074 (Driver Has Not Complied with Physical or Other Imposed Restrictions (not including GDL Restrictions))** is used when the case material identifies this driver did not comply with physical or other imposed license restrictions.

**Examples include:**

- Driving without corrective lenses when required.
- Driving without required equipment (e.g., automatic transmission, adaptive controls, etc.).
- Violating special privileges on a suspended/revoked license for other than permitted activities (e.g., driving permitted only to and from work). Not to be used for general "driving on a suspended or revoked license."
- Driving vehicle without "Interlock System" when required.

**\*089 (Driver has a Driving Record or Driver's License from More than One State)** is used when the case material identifies this driver had any combination of a State or record in more than one State. This is coded regardless of the status of the license or the driving privilege of the driver at the time of the crash.

**091 (Non-Traffic Violation Charged [Manslaughter, Homicide, or Other Assault Offense Committed Without Malice])** is used when the case material identifies this driver will receive “Criminal” charges such as intoxicated assault or vehicular manslaughter. It would exclude other criminal offenses such as hit-and-run or failure to render aid at the scene of a crash.

### **Unknown**

**999 (Reported as Unknown)** is used when the circumstances surrounding the crash are unknown and reported as “unknown” by the investigating officer.

### **\*FARS ONLY ATTRIBUTES**

#### **Consistency Checks [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                                                                                                                   | <b>THEN</b>                                                                                                                         |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| <b>1L1P</b>     | <b>Any RELATED FACTORS - DRIVER LEVEL equals 028,</b>                                                                       | <b>there must not be any RELATED FACTORS - DRIVER LEVEL equal to 033 or 051.</b>                                                    |
| 2H0F            | DRIVER PRESENCE equals 0, 9,                                                                                                | RELATED FACTORS-DRIVER LEVEL must not equal 004, 008, 010, 012, 013, 015, 016, 019, 052, 053, 058, 059, 073, 074, 077-088, 094-097. |
| 2L0P            | Any RELATED FACTORS-DRIVER LEVEL equal 000 or 999,                                                                          | <b>only that one code and no other must be coded.</b>                                                                               |
| 2P0G            | CONDITION (IMPAIRMENT) AT TIME OF CRASH equals 03,                                                                          | PERSON TYPE must be 05, 10, <b>11, 12, 13</b> , or 19.                                                                              |
| 5L0F            | RELATED FACTORS-DRIVER LEVEL equals 020,                                                                                    | DRIVER PRESENCE must not equal 1, 9.                                                                                                |
| <b>5L0P</b>     | <b>any RELATED FACTORS-DRIVER LEVEL equals 010,</b>                                                                         | <b>DRIVER DISTRACTED BY must equal 00.</b>                                                                                          |
| 5L1F            | RELATED FACTORS-DRIVER LEVEL equals 004, 008, 010, 012, 013, 015, 016, 019, 052, 053, 058, 059, 073, 074, 077-088, 094-097, | DRIVER PRESENCE must not equal 0 or 9.                                                                                              |
| 6K0P            | VIOLATION CHARGED equals 71,                                                                                                | RELATED FACTORS-DRIVER LEVEL must not equal 019.                                                                                    |
| 7L0P            | Any RELATED FACTORS-DRIVER LEVEL can be used only once per driver form.                                                     | --                                                                                                                                  |
| 9C6P            | UNIT TYPE equals 2-4,                                                                                                       | RELATED FACTORS-DRIVER LEVEL must equal 000.                                                                                        |
| 9L0F            | PERSON TYPE equals 01, and RELATED FACTORS-DRIVER LEVEL equals 012,                                                         | SEX must equal 2, and AGE must be greater than 012.                                                                                 |
| <b>9L0P</b>     | <b>any RELATED FACTORS-DRIVER LEVEL equals 010,</b>                                                                         | <b>ATTEMPTED AVOIDANCE MANEUVER must equal 01.</b>                                                                                  |

| <b>Error ID</b> | <b>IF</b>                                                                                                      | <b>THEN</b>                                                                                  |
|-----------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| A080            | DRIVER PRESENCE equals 0, and FIRST HARMFUL EVENT equals 12, and NUMBER OF VEHICLE FORMS SUBMITTED equals 002, | one RELATED FACTORS-DRIVER LEVEL should equal 020 or 054.                                    |
| AZA2            | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) does not equal 10, 11, or 12,                      | then RELATED FACTORS - DRIVER LEVEL should not equal 048.                                    |
| AZA3            | If RELATED FACTORS - DRIVER LEVEL equals 048,                                                                  | then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 10, 11, or 12. |
| D470            | any RELATED FACTORS-DRIVER LEVEL equals 037,                                                                   | at least one RELATED FACTORS-CRASH LEVEL should equal 020.                                   |
| D501            | At least one VIOLATIONS CHARGED equals 04,                                                                     | at least one RELATED FACTORS - DRIVER LEVEL must equal 006 or 036.                           |

**Consistency Checks (CRSS Only) ([See Section 400](#)):**

| <b>Error ID</b> | <b>IF</b>                                                                      | <b>THEN</b>                                                      |
|-----------------|--------------------------------------------------------------------------------|------------------------------------------------------------------|
| <b>D081</b>     | <b>VIOLATIONS CHARGED equals 01-04, 09, 51, 52, 67, 81, 82, 84, 89, or 98,</b> | <b>RELATED FACTORS-DRIVER LEVEL should not equal 000 or 999.</b> |

**Consistency Checks (FARS ONLY) ([See Section 400](#)):**

| <b>Error ID</b> | <b>IF</b>                                                                                   | <b>THEN</b>                                                   |
|-----------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| 1L6P            | RELATED FACTORS-DRIVER equals 33                                                            | SCHOOL BUS RELATED should equal 1.                            |
| 4L0P            | any RELATED FACTORS-DRIVER LEVEL equals 039 for this vehicle,                               | TRAFFIC CONTROL DEVICE should not equal 00 for this vehicle.  |
| 662P            | TRAFFIC CONTROL DEVICE is not equal to 00 and CRASH TYPE is 14,                             | at least one RELATED FACTORS - DRIVER LEVEL should equal 039. |
| 6L0P            | COMPLIANCE WITH LICENSE RESTRICTIONS equals 1, and RELATED FACTORS-DRIVER LEVEL equals 019, | LICENSE COMPLIANCE WITH CLASS OF VEHICLE must equal 3.        |
| 7I0P            | COMPLIANCE WITH LICENSE RESTRICTIONS equals 1, and RELATED FACTORS-DRIVER LEVEL equals 019, | NON-CDL LICENSE STATUS must equal 6.                          |
| 8I0P            | NON-CDL LICENSE STATUS equals 0-4, 9,                                                       | RELATED FACTORS-DRIVER LEVEL must not equal 019.              |

| <b>Error ID</b> | <b>IF</b>                                                                                   | <b>THEN</b>                                                                                      |
|-----------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| 8J2P            | RELATED FACTORS-DRIVER LEVEL equals 073, 074,                                               | COMPLIANCE WITH LICENSE RESTRICTIONS must equal 2.                                               |
| 8L0P            | LICENSE COMPLIANCE WITH CLASS OF VEHICLE equals 0-2, 9,                                     | RELATED FACTORS-DRIVER LEVEL must not equal 019.                                                 |
| BL0P            | COMPLIANCE WITH CDL ENDORSEMENTS equals 1, and any RELATED FACTORS-DRIVER LEVEL equals 019, | LICENSE COMPLIANCE WITH CLASS OF VEHICLE must equal 3.                                           |
| D080            | VIOLATION CHARGED equals 01-06, 09, 31-69, 81-91, 98,                                       | RELATED FACTORS-DRIVER LEVEL should not equal 000 <b>or</b> 999.                                 |
| D690            | NON-CDL LICENSE TYPE equals 2, 7, and COMPLIANCE WITH LICENSE RESTRICTIONS equals 2,        | RELATED FACTORS-DRIVER LEVEL should equal 073, 074.                                              |
| D700            | NON-CDL LICENSE TYPE equals 1, and COMPLIANCE WITH LICENSE RESTRICTIONS equals 2,           | RELATED FACTORS-DRIVER LEVEL should equal 074.                                                   |
| D730            | RELATED FACTORS-DRIVER LEVEL equals 073,                                                    | COMPLIANCE WITH LICENSE RESTRICTIONS should equal 2, and NON-CDL LICENSE TYPE should equal 2, 7. |
| D733            | at least one RELATED FACTORS - DRIVER LEVEL equals 060 and PERSON TYPE equals 01,           | ALCOHOL TEST RESULT should equal 995 or at least one DRUG TEST RESULT should equal 095.          |
| V100            | HM1 equals 2, and RELATED FACTORS-DRIVER LEVEL does not equal 019,                          | COMMERCIAL MOTOR VEHICLE LICENSE STATUS should not equal 01, 02, 05.                             |
| V16P            | RELATED FACTORS-DRIVER LEVEL equals 088,                                                    | VEHICLE TRAILING must not equal 0, 9.                                                            |

## **Precrash Level Data Elements**

[PC1 - State Number - FARS Only](#)

[PC2 - Consecutive Number - FARS Only](#)

### **[Precrash Data Overview](#)**

[PC3 - Vehicle Number - Precrash Level](#)

[PC4 - Contributing Circumstances, Motor Vehicle](#)

[PC5 - Trafficway Description](#)

[PC6 - Total Lanes in Roadway](#)

[PC7 - Speed Limit](#)

[PC8 - Roadway Alignment](#)

[PC9 - Roadway Grade](#)

[PC10 - Roadway Surface Type - FARS Only](#)

[PC11 - Roadway Surface Conditions](#)

[PC12 - Traffic Control Device](#)

[PC13 - Device Functioning](#)

[PC14 - Driver's Vision Obscured By](#)

[PC15 - Driver Maneuvered to Avoid](#)

[PC16 - Driver Distracted By](#)

[PC17 - Pre-Event Movement \(Prior to Recognition of Critical Event\)](#)

[PC18 - Critical Event - Precrash \(Category\)](#)

[PC19 - Critical Event - Precrash \(Event\)](#)

[PC20 - Attempted Avoidance Maneuver](#)

[PC21 - Pre-Impact Stability](#)

[PC22 - Pre-Impact Location](#)

[PC23 - Crash Type](#)

## Precrash Data Overview

Precrash data elements are completed for each of the in-transport motor vehicles in the case. This means that the entire crash is first completed from the perspective of one vehicle, then from the perspective of a second vehicle, if any, and so forth. The precrash data elements are the following.

- [Driver Distracted By](#)
- [Pre-Event Movement \(Prior to Recognition of Critical Event\)](#)
- [Critical Precrash Category](#)
- [Critical Precrash Event](#)
- [Attempted Avoidance Maneuver](#)
- [Pre-Impact Stability](#)
- [Pre-Impact Location](#)
- [Crash Type](#)

The precrash data elements are designed to identify the following.

- What was this vehicle doing just prior to the critical precrash event?
- What made this vehicle's situation critical?
- What was the avoidance response, if any, to this critical situation?
- What was the movement of the vehicle just prior to impact?

The most important determination that must be made for each in-transport motor vehicle is: what was this vehicle's [CRITICAL PRECRASH EVENT](#), (i.e., what action by this vehicle, another vehicle, person, animal, or non-fixed object was critical to this vehicle's crash?). Once the critical event is determined, the remaining precrash data elements are coded relative to this selected [CRITICAL PRECRASH EVENT](#).

Do not consider culpability as a factor for determining precrash data. Many crash scenarios will suggest fault, but this is considered coincidental rather than by design.

### ***Critical Crash Envelope***

The critical crash envelope begins at the point where:

1. the driver recognizes an impending danger (e.g., deer runs into the roadway), OR
2. the vehicle is in an imminent path of collision with another vehicle, pedestrian, pedalcyclist, other non-motorist, object, or animal.

The critical crash envelope ends when:

1. all three:
  - a. the driver has made a successful avoidance maneuver, and
  - b. has full steering control, and
  - c. the vehicle is tracking;

**OR**

2. the driver's vehicle impacts another vehicle, pedestrian, pedalcyclist, other non-motorist, object, or animal.

*See the [Coding Guide: Critical Crash Envelope Timeline](#) for helpful information.*

### **Simple Single Critical Crash Envelope**

Most crashes involve only a single critical crash envelope in which the object contacted is captured under the [CRITICAL PRECRASH EVENT](#), (e.g., a vehicle is traveling straight on a roadway and a deer runs into the roadway and is struck by the vehicle). This scenario, and similar ones, are very straightforward and will not present many problems.

### **Complex Single Critical Crash Envelope**

However, some single critical crash envelopes are more complex.

**Example A:** A driver avoids one obstacle and immediately impacts another vehicle, person, object, or animal. Because immediate is defined as **not** having an opportunity, or sufficient time, to take any additional avoidance actions, the [CRITICAL PRECRASH EVENT](#) is related to the vehicle, person, object, or animal that the driver successfully avoided instead of the vehicle's first harmful event (i.e., its impact); see [example 3](#) and [example 5](#).

**Example B:** The driver avoids an obstacle only to (a) lose steering control and/or (b) have the vehicle stop tracking, and the vehicle subsequently impacts another vehicle, person, object, or animal.

Regardless of whether the driver:

1. attempted to regain steering control,
2. caused the vehicle to resume a tracking posture, or
3. avoided the impacted vehicle, person, object, or animal,

the Critical Precrash Event is similarly related to the vehicle, person, object, or animal that the driver successfully avoided because the driver's critical crash envelope was never stabilized.

In both examples above, the [ATTEMPTED AVOIDANCE MANEUVER](#) records the successful action taken to avoid the [CRITICAL PRECRASH EVENT](#).

Vehicles that are not involved in an impact with another vehicle, person, object, or animal in the sequence of crash events (that define this crash) are not included.

The coding order for a single critical crash envelope is illustrated in [Figure 22](#).

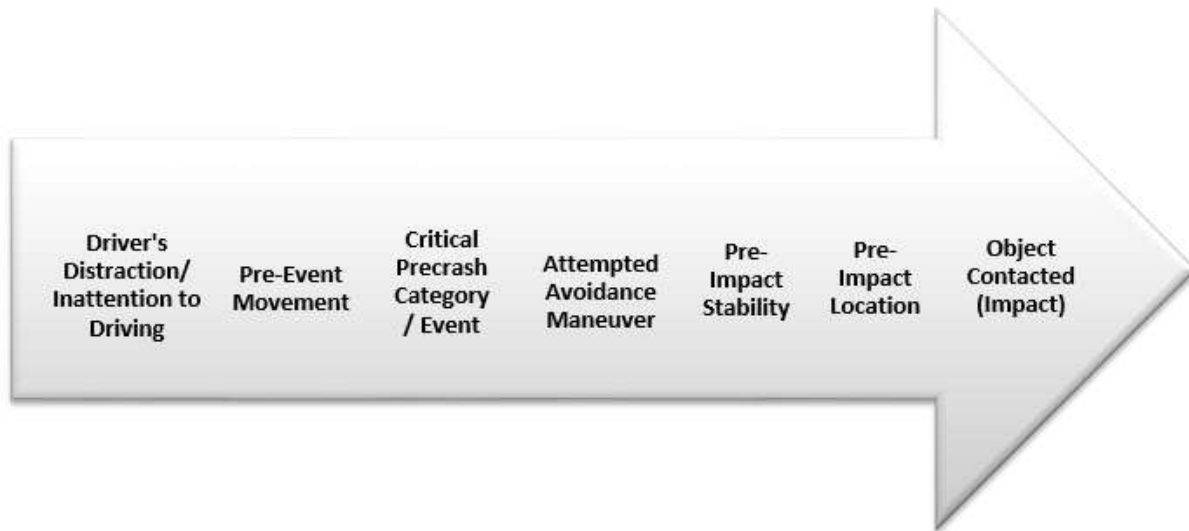


Figure 22: Typical Order of a Single Critical Crash Envelope

### Critical Crash Envelopes

When a case involves more than one critical crash envelopes, select only the final critical crash envelope. In this situation, code the element [PRE-EVENT MOVEMENT \(PRIOR TO RECOGNITION OF CRITICAL EVENT\)](#) as: [17 \(Successful avoidance maneuver to a previous critical event\)](#). The final critical crash envelope is the one that resulted in this vehicle's first harmful event (i.e., its impact) as shown in [Figure 23](#).

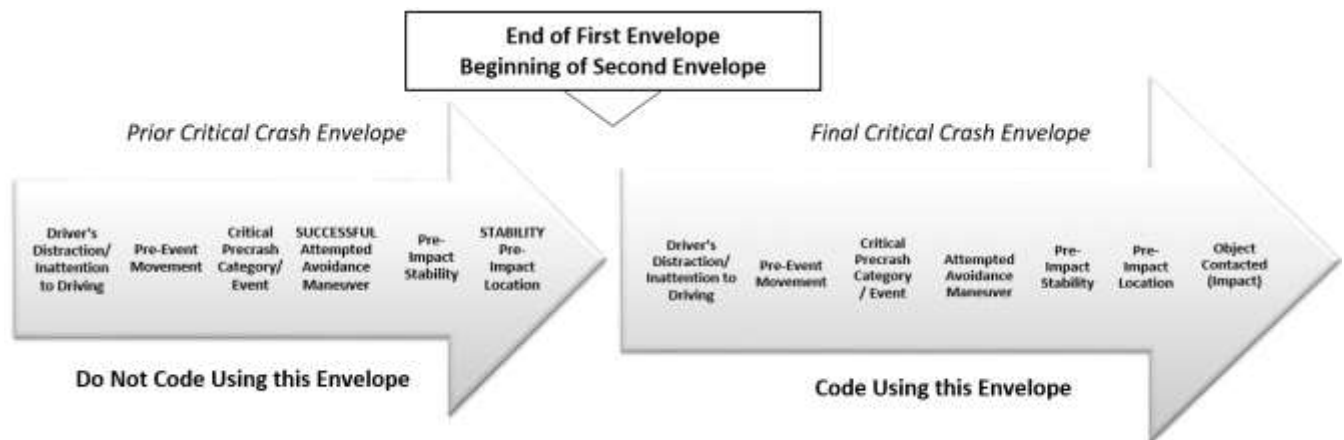


Figure 23: Typical Order of Multiple Critical Crash Envelopes

When there is doubt as to whether this vehicle had experienced a complex single, or multiple critical crash envelopes, choose the Critical Precrash Category/Event, to the vehicle, person, object, or animal that the driver successfully avoided (i.e., default to Complex Single). See [Complex Single Critical Crash Envelope](#) examples **A** and **B** above.

The following pages have a method protocol, a [flowchart](#) illustrating the proper method and protocol for determining the precrash data elements, 10 [Precrash General Rules](#), and 18 [examples](#) of various crash event sequences that contain one or more critical crash envelopes.



## **Method Protocol**

Consider the information obtained from the police report and any supplemental documents as inputs to your decision-making process.

1. Determine [CRITICAL PRECRASH CATEGORY](#) / [CRITICAL PRECRASH EVENT](#).

What action by this vehicle, another vehicle, person, animal, or object was critical to this driver becoming involved in the crash (i.e., use the “**BUT FOR**” \* test)?

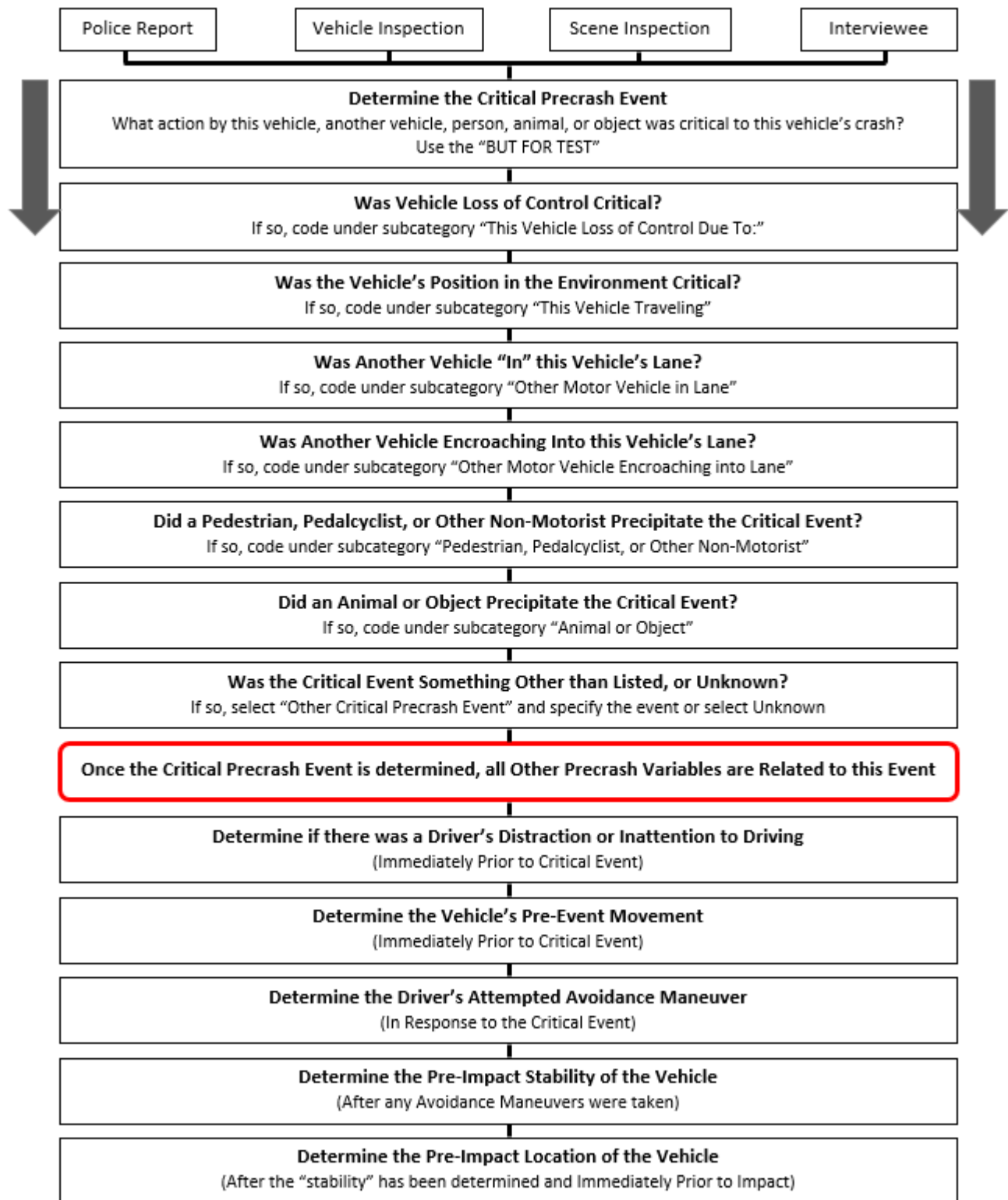
### **FOR EXAMPLE:**

- “**But for**” Vehicle # going left-of-center, this vehicle would not have been involved in this crash.
- “**But for**” having entered into the intersection, this vehicle would not have been involved in this crash.

ASK yourself questions (a) through (f) below. Proceed through each question that applies to the crash you are researching. Stop when the answer to the questions is “Yes.” This is the [CRITICAL PRECRASH CATEGORY](#).

- a. Did the vehicle exhibit a control loss?
  - b. Does the evidence suggest that the vehicle was in an environmentally dangerous position?
  - c. Was another vehicle “in” this vehicle’s lane?
  - d. Was another vehicle entering into this vehicle’s lane?
  - e. Was a pedestrian, pedalcyclist, or other non-motorist in or approaching this vehicle’s path?
  - f. Was an animal in or approaching this vehicle’s path or was an object in this vehicle’s path?
2. Determine [DRIVER DISTRACTED BY](#).
  3. Determine [PRE-EVENT MOVEMENT \(PRIOR TO RECOGNITION OF CRITICAL EVENT\)](#).
  4. Determine [ATTEMPTED AVOIDANCE MANEUVER](#).  
What does your information indicate that the driver tried to do to avoid the crash?
  5. Determine [PRE-IMPACT STABILITY](#).
  6. Determine [PRE-IMPACT LOCATION](#).

## Precrash Methodology Flowchart



## **Precrash General Rules**

1. [ATTEMPTED AVOIDANCE MANEUVER](#) assesses what the driver's action(s) was during the critical crash envelope in response to realization of impending danger.
2. The mere presence of a traffic control signal/sign typically does not make the situation critical when determining [CRITICAL PRECRASH EVENT](#).

For example: A single vehicle approaches a stop sign and departs the right side of the road impacting a tree, in an attempt to avoid passing through the intersection. The sign has no bearing and therefore, does not make the situation critical.
3. When you know the [CRITICAL PRECRASH CATEGORY](#), but are unable to select a specific [CRITICAL PRECRASH EVENT](#), use the following guideline:

Default to one of the "Other" or "Unknown" attributes within each CRITICAL PRECRASH EVENT category, rather than coding the entire CRITICAL PRECRASH CATEGORY as "Other critical precrash event."
4. If control is lost due to driver illness such as heart attacks, diabetic comas, etc., then CRITICAL PRECRASH EVENT should be coded as [08 \(Other cause of control loss \(Specify:\)\)](#).
5. When coding [CRITICAL PRECRASH CATEGORY](#) as [1 \(This vehicle loss of control\)](#), the loss of control must have occurred prior to the driver doing any avoidance maneuver. If the driver attempts a maneuver (i.e., brakes, steers, etc.) as a result of the driver's perception of a vehicle, object, pedestrian, or non-motorist, then select the vehicle, object, pedestrian, or non-motorist as the critical event because that is what made the situation critical. If the vehicle is in a yaw prior to the driver taking an avoidance action, then loss-of-control is what made it critical (critical curve scuff, hydroplaning, etc.).
6. When determining CRITICAL PRECRASH CATEGORY/EVENT if you do not know from available sources which driver had the right-of-way at a controlled or uncontrolled intersection, then use the following as a guideline:
  - a. If the junction is controlled by a three-way/four-way stop sign, or is uncontrolled, then use the common rule that the vehicle on the right has the right-of-way for determining encroachment.
  - b. If the junction is controlled by an on-colors traffic control device, and both drivers claim a green light, then both vehicles are in an environmentally dangerous position, and Critical Precrash Event for both vehicles should be [2 \(This Vehicle Traveling\)](#) (CRITICAL PRECRASH CATEGORY) [17 \(Crossing over \(passing through\) junction\)](#) (CRITICAL PRECRASH EVENT).
7. When two vehicles are initially traveling on the same trafficway and one executes a left turn with the right-of-way (i.e., green arrow), use [4 \(Other Motor Vehicle Encroaching Into Lane\)](#) - [63 \(From opposite direction-over right lane line\)](#) for the turning vehicle's critical event. This applies to [Crash Types 68, 69](#).

If the vehicles were initially on different trafficways (Crash Types [76, 77](#) and [82, 83](#)) the critical event for the vehicle turning left with the right-of-way should be [4 \(Other Motor Vehicle Encroaching Into Lane\)](#) - [66 \(From crossing street across path\)](#).

8. “Fixed” objects (e.g., trees, poles, fire hydrants, etc.) cannot be in the roadway.
9. A motor vehicle is stopped in a travel lane and is impacted by another motor vehicle ricocheting off a vehicle. The CRITICAL PRECRASH EVENT for the vehicle struck by the ricocheting vehicle is in the [category](#) of either: [3 \(Other Motor Vehicle In Lane\)](#) or [4 \(Other Motor Vehicle Encroaching Into Lane\)](#).
10. [PRE-IMPACT STABILITY](#) should be indicated as [1 \(Tracking\)](#) if the following are met:
  - a. no skid marks are present on the diagram or mentioned in the narrative,
  - b. the case material does not indicate skidding, **AND**
  - c. the vehicle did not rotate 30° or more either clockwise or counterclockwise.

**Note regarding PRE-IMPACT STABILITY:**

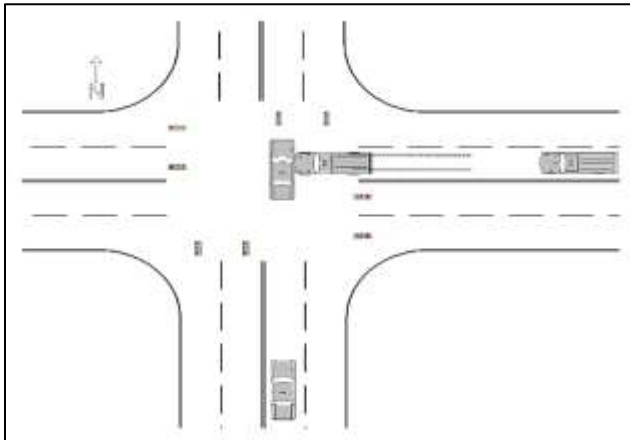
If the case material does not provide enough information (in the diagram, narrative, etc.) to determine precrash stability, code [9 \(Precrash Stability Unknown\)](#).

Trafficway and its component definitions (i.e., roadway, road, shoulder, and median) can be found in the [ANSI D16.1 Manual on the Classification of Motor Vehicle Traffic Crashes](#).

***Precrash Examples***

**Example 1**

**Example 1 Diagram**



Vehicle 1 was traveling northbound on a four-lane roadway. Vehicle 2 was traveling westbound on an intersecting four-lane roadway. The intersection was controlled by traffic signals. Both vehicles entered the intersection and the right side of Vehicle 1 was struck by the front of Vehicle 2. Police could not determine which vehicle had the right-of-way, both drivers claimed to have a green light. The driver of Vehicle 1 reported that he never saw Vehicle 2 approaching.

“None” was identified by police on the crash report for both drivers in the data element for recording driver distractions. The police also indicated that no skid marks were present at the scene associated with Vehicle 1, but there were pre-impact skids present at the scene associated with Vehicle 2 and that this supported the driver’s statement that he attempted to stop when he saw Vehicle 1 in his path.

| Precrash Element                             | Vehicle 1                                | Vehicle 2                                             |
|----------------------------------------------|------------------------------------------|-------------------------------------------------------|
| <a href="#">Driver Distracted By</a>         | Not Distracted                           | Not Distracted                                        |
| <a href="#">Pre-Event Movement</a>           | Going Straight                           | Going Straight                                        |
| <a href="#">Critical Precrash (Category)</a> | This Vehicle Traveling                   | This Vehicle Traveling                                |
| <a href="#">Critical Precrash (Event)</a>    | Crossing Over (Passing Through) Junction | Crossing Over (Passing Through) Junction              |
| <a href="#">Attempted Avoidance Maneuver</a> | No Avoidance Maneuver                    | Braking                                               |
| <a href="#">Pre-Impact Stability</a>         | Tracking                                 | Skidding Longitudinally Rotation Less Than 30 Degrees |
| <a href="#">Pre-Impact Location</a>          | Stayed in Original Travel Lane           | Stayed in Original Travel Lane                        |
| <a href="#">Crash Type</a>                   | 87                                       | 86                                                    |

In this example, the **Critical Crash Envelope** for Vehicle 1 (V<sub>1</sub>CCE) begins at the point where it is in an imminent collision path with Vehicle 2. The **Critical Crash Envelope** for Vehicle 2 (V<sub>2</sub>CCE) begins at the point where the drivers recognize the impending danger. The **Critical Crash Envelopes** end at the point of impact with the other vehicle.

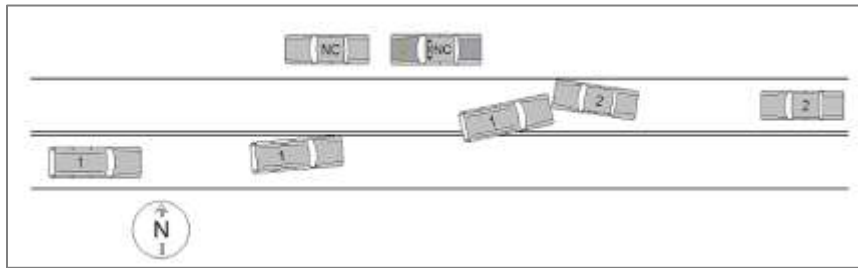
Since it could not be determined which vehicle had the right-of-way, the **Critical Event** is determined using [Precrash General Rule #6b](#). It states, “If the junction is controlled by an on-colors traffic control device, and both drivers claim a green light, then both vehicles are in an environmentally dangerous position and the **Critical Event** for both vehicles should be [This Vehicle Traveling \(Critical Event - Precrash \(Category\)\) Crossing Over \(Passing Through\) Junction \(Critical Event - Precrash \(Event\)\)](#).”

Vehicle 1’s **Pre-Impact Stability** was [Tracking](#) based on [Precrash General Rule #10](#). [Skidding Longitudinally Rotation Less Than 30 Degrees](#) was selected for Vehicle 2’s **Pre-Impact Stability** because tire marks were identified on the report and there was no indication of rotation.

It is important to keep in mind the type of traffic control (traffic signal versus stop sign) when determining right-of-way. Using the same scenario but substituting stops signs for the traffic signals, would change the **Critical Event** for both vehicles. [Precrash General Rule #6a](#) states, “If the junction is controlled by a 3-way or 4-way stop sign, or is uncontrolled, the vehicle on the right [Vehicle 2 in this case] would have had the right-of-way for determining encroachment.”

## Example 2

### Example 2 Diagram



Vehicle 1 and Vehicle 2 are traveling in opposite directions on the same roadway. A police car (with lights activated) is making a traffic stop on the north side of the road. The driver of Vehicle 1 is looking at the activity on his left. Before he can react, Vehicle 1 crosses the centerline and strikes the front of Vehicle 2. The driver of Vehicle 2 also noticed the police activity, but he was attentive to the slowing traffic ahead. Vehicle 2 attempted to avoid the crash by braking and steering right.

| Precrash Element                             | Vehicle 1                                        | Vehicle 2                                   |
|----------------------------------------------|--------------------------------------------------|---------------------------------------------|
| <a href="#">Driver Distracted By</a>         | Distracted by Outside Person, Object, or Event   | Not Distracted                              |
| <a href="#">Pre-Event Movement</a>           | Going Straight                                   | Going Straight                              |
| <a href="#">Critical Precrash (Category)</a> | This Vehicle Traveling                           | Other Motor Vehicle Encroaching Into Lane   |
| <a href="#">Critical Precrash (Event)</a>    | Over the Lane Line on Left Side of Travel Lane   | From Opposite Direction Over Left Lane Line |
| <a href="#">Attempted Avoidance Maneuver</a> | No Avoidance Maneuver                            | Braking and Steering Right                  |
| <a href="#">Pre-Impact Stability</a>         | Tracking                                         | Tracking                                    |
| <a href="#">Pre-Impact Location</a>          | Stayed on Roadway, But Left Original Travel Lane | Stayed in Original Travel Lane              |
| <a href="#">Crash Type</a>                   | 50                                               | 51                                          |

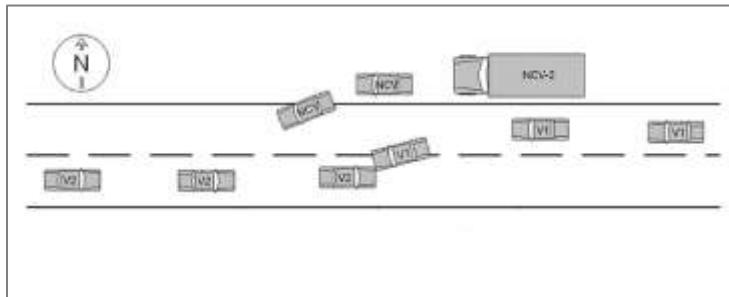
In this example, Vehicle 1 has one **Critical Crash Envelope** (V<sub>1</sub>CCE) that begins at the point where Vehicle 1 is in an imminent collision path with Vehicle 2. Vehicle 1's **Critical Crash Envelope** ends at the point of impact with Vehicle 2.

Vehicle 2's **Critical Crash Envelope** (V<sub>2</sub>CCE) begins when the driver recognizes impending danger and ends at the point of impact with Vehicle 1.

When determining **Crash Type**, it is important to keep in mind that some **Crash Configurations** are plane of impact dependent, while others are not. In this case the **Crash Type** for Vehicle 1 and Vehicle 2 is [“50” and “51,” Head-On](#) respectively since it involved the front planes of both vehicles. If the collision had involved the side of one or both of the vehicles, then the **Crash Type** would have been [“64” and “65,” Angle/Sideswipe](#).

### Example 3

#### Example 3 Diagram



Vehicle 1 and Vehicle 2 are traveling in opposite directions on the same roadway. A non-contact vehicle (NCV) is parked in front of a non-contact heavy truck on the road shoulder and suddenly enters the roadway into Vehicle 1’s travel lane. The driver of Vehicle 1 instantly brakes, and steers left to avoid the non-contact vehicle. Vehicle 1 crosses over the center line and **immediately** impacts the front of Vehicle 2. Vehicle 2 had no avoidance maneuvers. “None” was identified by police on the crash report for both drivers in the data element for recording driver distractions.

| Precrash Element                             | Vehicle 1                                        | Vehicle 2                                   |
|----------------------------------------------|--------------------------------------------------|---------------------------------------------|
| <a href="#">Driver Distracted By</a>         | Not Distracted                                   | Not Distracted                              |
| <a href="#">Pre-Event Movement</a>           | Going Straight                                   | Going Straight                              |
| <a href="#">Critical Precrash (Category)</a> | Other Motor Vehicle Encroaching Into Lane        | Other Motor Vehicle Encroaching Into Lane   |
| <a href="#">Critical Precrash (Event)</a>    | From Parking Lane/Shoulder                       | From Opposite Direction Over Left Lane Line |
| <a href="#">Attempted Avoidance Maneuver</a> | Braking and Steering Left                        | No Avoidance Maneuver                       |
| <a href="#">Pre-Impact Stability</a>         | Tracking                                         | Tracking                                    |
| <a href="#">Pre-Impact Location</a>          | Stayed on Roadway, But Left Original Travel Lane | Stayed in Original Travel Lane              |
| <a href="#">Crash Type</a>                   | 58                                               | 59                                          |

In this example, Vehicle 1 has one **Critical Crash Envelope** (V<sub>1</sub>CCE). Vehicle 1’s **Critical Crash Envelope** involved a successful avoidance of a non-contact vehicle and resulted in an **immediate** impact to Vehicle 2. Vehicle 1’s **Critical Crash Envelope** was initiated by the non-contact vehicle; afterwards there was no opportunity for subsequent avoidance actions. Therefore, the encroachment of the non-contact vehicle into Vehicle 1’s travel lane is coded as the **Critical Event - Precrash (Event)** for Vehicle 1. Vehicle 1’s **Attempted Avoidance Maneuver** is coded as the action taken to avoid the non-contact vehicle.

Vehicle 2 has one **Critical Crash Envelope** (V<sub>2</sub>CCE) that begins at the point where Vehicle 1 is in an imminent path of collision with Vehicle 2 and ends at the point of impact with Vehicle 1.

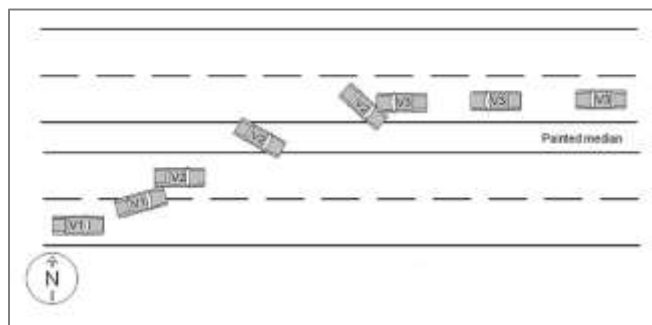
[Tracking](#) is selected as Vehicle 1’s **Pre-Impact Stability** based on [Precrash General Rule #10](#).

Vehicle 1's **Pre-Impact Location** is [Stayed On Roadway But Left Original Travel Lane](#). This attribute best describes the location of the vehicle after the critical event and before impact.

The non-contact vehicle and the non-contact truck were not involved in an impact in the sequence of crash events and are, therefore, non-contact vehicles and not counted in the structuring of the case.

#### Example 4

##### Example 4 Diagram



Vehicle 1 and Vehicle 2 are traveling in the same direction in adjacent lanes on a divided highway (with a painted median). Vehicle 1 has a tire blow out and loses control, crosses the left lane line, and impacts the right rear of Vehicle 2. Vehicle 2 is redirected across the painted median, skidding and rotating clockwise, and subsequently impacts Vehicle 3. Vehicle 3 attempted to avoid Vehicle 2 by steering right and accelerating. “None” was identified by police on the crash report for all drivers in the data element for recording driver distractions.

| Precrash Element                             | Vehicle 1                                        | Vehicle 2                                                  | Vehicle 3                                     |
|----------------------------------------------|--------------------------------------------------|------------------------------------------------------------|-----------------------------------------------|
| <a href="#">Driver Distracted By</a>         | Not Distracted                                   | Not Distracted                                             | Not Distracted                                |
| <a href="#">Pre-Event Movement</a>           | Going Straight                                   | Going Straight                                             | Going Straight                                |
| <a href="#">Critical Precrash (Category)</a> | This Vehicle Loss Control Due To:                | Other Motor Vehicle Encroaching Into Lane                  | Other Motor Vehicle Encroaching Into Lane     |
| <a href="#">Critical Precrash (Event)</a>    | Blow Out or Flat Tire                            | From Adjacent Lane (Same Direction) - Over Right Lane Line | From Opposite Direction - Over Left Lane Line |
| <a href="#">Attempted Avoidance Maneuver</a> | Unknown/Not Reported                             | Unknown/Not Reported                                       | Accelerating and Steering Right               |
| <a href="#">Pre-Impact Stability</a>         | Tracking                                         | Tracking                                                   | Tracking                                      |
| <a href="#">Pre-Impact Location</a>          | Stayed on Roadway, But Left Original Travel Lane | Stayed in Original Travel Lane                             | Stayed in Original Travel Lane                |
| <a href="#">Crash Type</a>                   | 45                                               | 44                                                         | 98                                            |

In this example, Vehicle 1 has one **Critical Crash Envelope** (V<sub>1</sub>CCE) that begins with control loss due to the tire blow out and ends at the point of impact with Vehicle 2. The blow out is the

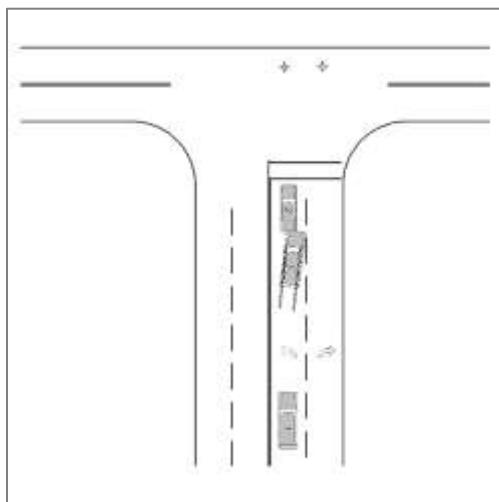


**Critical Event - Precrash (Event).** Vehicle 2 has two **Critical Crash Envelopes** ( $V_2CCE_1$  and  $V_2CCE_2$ ). Vehicle 2's first **Critical Crash Envelope** ( $V_2CCE_1$ ) begins when Vehicle 1 enters Vehicle 2's travel lane and ends at the point of impact with Vehicle 1. The first CCE is selected because Precrash is only interested in coding the **Critical Crash Envelope** that leads to a vehicle's first harmful event. Vehicle 3 has one **Critical Crash Envelope** ( $V_3CCE$ ) that begins when Driver 3 recognizes and reacts to Vehicle 2 that is in an imminent path of collision with Vehicle 3 and ends at the point of impact with Vehicle 2.

**Attempted Avoidance Maneuver** was coded as [Unknown/Not Reported](#) for Vehicles 1 and 2 because of a lack of information to assess attempted avoidance. The **Crash Type** for Vehicle 1 and Vehicle 2 is ["45" - "44," Sideswipe/Angle: Straight Ahead](#), respectively based on their positions (i.e., left versus right) and because Vehicle 1 did not **intend** to change lanes. Situations involving vehicles that **intended** to change lanes are captured with **Crash Type** codes ["46" and "47," Sideswipe/Angle: Changing lanes](#). The **Crash Type** for Vehicle 3 is ["98," Other](#) since it was not involved in the FIRST HARMFUL EVENT in the crash.

## Example 5

### Example 5 Diagram



Vehicle 2 is stopped waiting to turn left in a left turn lane at an intersection controlled by a traffic signal. Vehicle 1 approaches the intersection and the driver is texting. Vehicle 1's driver looks up at the last minute and brakes and steers right leaving tire marks but cannot avoid striking the rear of Vehicle 2. There is no information on the crash report to assess distraction for the driver of Vehicle 2.

| Precrash Element                             | Vehicle 1                       | Vehicle 2                                     |
|----------------------------------------------|---------------------------------|-----------------------------------------------|
| <a href="#">Driver Distracted By</a>         | While Manipulating Mobile Phone | Not Reported                                  |
| <a href="#">Pre-Event Movement</a>           | Going Straight                  | Stopped in Road                               |
| <a href="#">Critical Precrash (Category)</a> | Other Vehicle in Lane           | Other Vehicle in Lane                         |
| <a href="#">Critical Precrash (Event)</a>    | Other Vehicle Stopped           | Traveling in Same Direction with Higher Speed |

| Precrash Element                             | Vehicle 1                                               | Vehicle 2                      |
|----------------------------------------------|---------------------------------------------------------|--------------------------------|
| <a href="#">Attempted Avoidance Maneuver</a> | Braking and Steering Right                              | No Avoidance Maneuver          |
| <a href="#">Pre-Impact Stability</a>         | Skidding Longitudinally - Rotation Less Than 30 Degrees | Tracking                       |
| <a href="#">Pre-Impact Location</a>          | Stayed in Original Travel Lane                          | Stayed in Original Travel Lane |
| <a href="#">Crash Type</a>                   | 20                                                      | 22                             |

In this example, Vehicle 1's **Critical Crash Envelope** (V<sub>1</sub>CCE) begins at the point the driver recognizes Vehicle 2 is stopped in the lane and ends at the point of impact with Vehicle 2. Vehicle 2's **Critical Crash Envelope** (V<sub>2</sub>CCE) begins and ends at the point of impact.

Vehicle 1's **Driver Distracted By** is [While Manipulating a Mobile Phone](#). Texting is captured in this attribute.

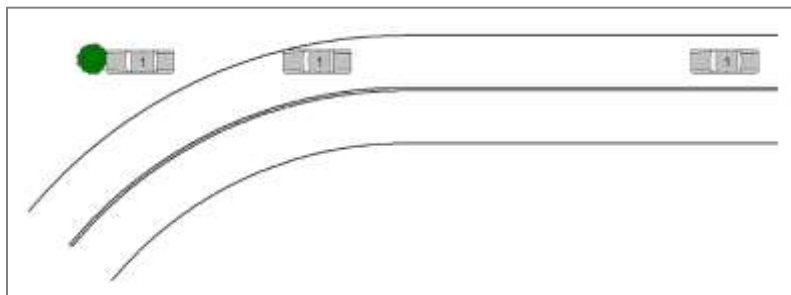
The Pre-Event Movement and Critical Event coding can be tricky in rear-end crash scenarios. Refer to the [Precrash Event Scenarios for Different Rear-End Collision Situations](#) following the Precrash Examples for additional guidance.

The **Crash Type** for Vehicle 2 is '[22,' Rear-end: Stopped Left](#) because it was stopped and **intended** to turn left at the intersection.

The **Pre-Impact Stability** for Vehicle 1 is [Skidding Longitudinally - Rotation Less Than 30 Degrees](#) as opposed to [Tracking](#) because tire marks were present and rotation was minimal.

## Example 6

### Example 6 Diagram



Vehicle 1 is traveling on a two-lane roadway and the driver, who is diabetic, has a hypoglycemic attack and begins to lose consciousness. The vehicle departs the right side of the road as it enters a curve and strikes a tree.

| Precrash Element                             | Vehicle 1                              |
|----------------------------------------------|----------------------------------------|
| <a href="#">Driver Distracted By</a>         | Not Distracted                         |
| <a href="#">Pre-Event Movement</a>           | Going Straight                         |
| <a href="#">Critical Precrash (Category)</a> | This Vehicle Loss of Control Due To    |
| <a href="#">Critical Precrash (Event)</a>    | Other Cause of Control Loss (Specify:) |

| Precrash Element                             | Vehicle 1        |
|----------------------------------------------|------------------|
| <a href="#">Attempted Avoidance Maneuver</a> | None             |
| <a href="#">Pre-Impact Stability</a>         | Tracking         |
| <a href="#">Pre-Impact Location</a>          | Departed Roadway |
| <a href="#">Crash Type</a>                   | 01               |

Vehicle 1's **Critical Crash Envelope** (V<sub>1</sub>CCE) begins at the point where the vehicle is in imminent path of a collision with the tree and ends at impact.

**Driver Distracted By** is coded as [Not Distracted](#) because the driver lost consciousness just prior to the Critical Precrash Event and intoxication, illness, blackouts, falling asleep, or being fatigued are not considered distractions for the purposes of this element in FARS and CRSS.

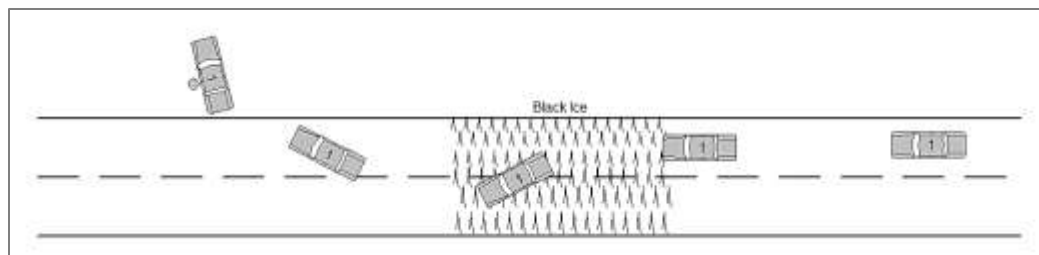
The **Critical Event** is coded [This Vehicle Control Loss Due To: Other Cause of Control Loss \(Specify:\)](#) following [Precrash General Rule #4](#) that addresses loss of control because of driver illness.

The **Pre-Event Movement** element describes the vehicle's activity just prior to the **Critical Event**, in this case, [Going Straight](#).

The **Crash Type** for Vehicle 1 is "[01, Right Roadside Departure: Drive Off Road](#)." Do not confuse the **Critical Event Category** coding of [This Vehicle Control Loss Due To](#) with the **Crash Type** "[02, Right Roadside Departure: Control/Traction Loss](#)."

## Example 7

### Example 7 Diagram



Vehicle 1 is traveling on a two-lane roadway with moderate snow falling. The driver suddenly encounters black ice on the roadway, loses control, and begins to rotate counterclockwise. The driver attempts to regain control by braking and steering right but overcorrects and the vehicle departs the right side of the roadway and strikes a pole. The police on the crash report identify that the driver is "Not Distracted."

| Precrash Element                             | Vehicle 1                            |
|----------------------------------------------|--------------------------------------|
| <a href="#">Driver Distracted By</a>         | Not Distracted                       |
| <a href="#">Pre-Event Movement</a>           | Going Straight                       |
| <a href="#">Critical Precrash (Category)</a> | This Vehicle Loss of Control Due To: |

| Precrash Element                             | Vehicle 1                                                          |
|----------------------------------------------|--------------------------------------------------------------------|
| <a href="#">Critical Precrash (Event)</a>    | <b><i>Suddenly Encountered</i></b> Poor Road Conditions (Specify:) |
| <a href="#">Attempted Avoidance Maneuver</a> | Braking and Steering Right                                         |
| <a href="#">Pre-Impact Stability</a>         | Skidding Laterally Clockwise Rotation                              |
| <a href="#">Pre-Impact Location</a>          | Departed Roadway                                                   |
| <a href="#">Crash Type</a>                   | 02                                                                 |

Vehicle 1's **Critical Crash Envelope** (V<sub>1</sub>CCE) begins when the vehicle encounters the black ice and ends at impact with the pole.

The **Critical Event** in this example is [This Vehicle Control Loss Due To: Poor Road Conditions \(Specify: \(Black ice\)\)](#).

It can be difficult to determine the **Critical Event** in cases when weather, road conditions, roadway alignment, and speed all potentially play a role in the crash. Examples 7 and 8 are prime examples, [Poor Road Conditions](#), [Too Fast For Conditions](#), or [This Vehicle Traveling](#) category attributes (e.g., [Off the Edge of the Road on the Right Side](#)) could be selected based on the circumstances.

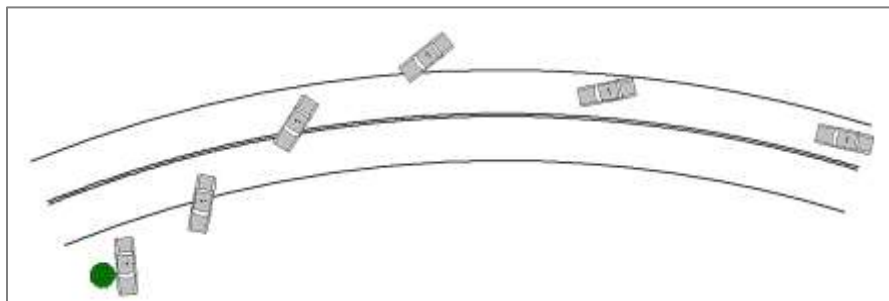
Typically, [Poor Road Conditions](#) such as ice and puddles are “suddenly” encountered by the driver and not an ongoing situation.

[Too Fast for Conditions](#) applies when the vehicle's movement and speed were not appropriate relative to the vehicle's surroundings; roadway curves are often involved.

If neither of these [Loss of Control Critical Events](#) apply, then [This Vehicle Traveling](#) Category attributes are appropriate.

## Example 8

### Example 8 Diagram



Vehicle 1 is traveling on a two-lane roadway with heavy rain falling. Police estimate the driver was traveling 55 mph in this 35-mph speed zone. While negotiating a curve, the driver loses control on the rain-slickened road and the vehicle slides off the right edge of the road but does not sustain an impact. The driver steers left in an attempt to regain control, crosses both travel lanes, and departs the left side of the road before striking a tree with its right side. The crash

report identifies “None” in a Contributing Circumstances field that includes various driver distraction attributes among the factors available.

| Precrash Element                             | Vehicle 1                                                             |
|----------------------------------------------|-----------------------------------------------------------------------|
| <a href="#">Driver Distracted By</a>         | Not Distracted                                                        |
| <a href="#">Pre-Event Movement</a>           | Negotiating a Curve                                                   |
| <a href="#">Critical Precrash (Category)</a> | This Vehicle Loss of Control Due To                                   |
| <a href="#">Critical Precrash (Event)</a>    | Traveling Too Fast for Conditions <i><b>or Road Configuration</b></i> |
| <a href="#">Attempted Avoidance Maneuver</a> | Steering Left                                                         |
| <a href="#">Pre-Impact Stability</a>         | Skidding Laterally Counterclockwise Rotation                          |
| <a href="#">Pre-Impact Location</a>          | Departed Roadway                                                      |
| <a href="#">Crash Type</a>                   | 07                                                                    |

In this example, Vehicle 1 has one **Critical Crash Envelope** (V<sub>1</sub>CCE) that begins when the driver begins to lose control and the vehicle begins to rotate counterclockwise. The envelope ends at impact with the tree. This crash is not a multiple **Critical Crash Envelope** scenario because Vehicle 1 never regained control.

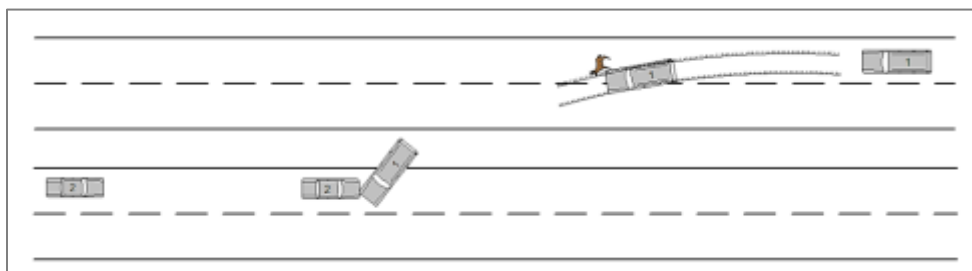
The **Critical Event** is coded [This Vehicle Control Loss Due To: Too Fast For Conditions](#) because the vehicle’s movement and speed were not appropriate relative to the vehicle’s surroundings (heavy rain and curve). This is applicable in this case even without the officer specifically stating, “too fast for conditions.”

The **Pre-Impact Location** is coded [Departed Roadway](#) since the element is based on the location of the vehicle after the critical event, and immediately before the first impact.

The **Crash Type** element is based on the FIRST HARMFUL EVENT and the vehicle did not strike anything when it departed the right side of the road, therefore, [“07,” Left Roadside Departure-Control/Traction Loss](#) is selected as the **Crash Type**.

## Example 9

### Example 9 Diagram



Vehicle 1 is traveling westbound on a highway with a posted speed limit of 55 mph. Vehicle 2 is traveling east on the same highway in sunny and dry conditions. A deer suddenly enters the roadway from the right and the driver of Vehicle 1 attempts to brake and steer left, leaving

several meters of tire marks, but strikes the deer. Vehicle 1 then goes into a counterclockwise yaw and crosses into the oncoming lanes and strikes Vehicle 2.

The driver of Vehicle 1 had a blood alcohol concentration (BAC) of 0.15 and was charged with driving under the influence. There were no indications of distraction identified on the crash report for the driver of Vehicle 1. Instead, in the Contributing Factors field where the officer could assess distraction he selected “animal in road” and “had been drinking.” The Contributing Factors for the driver of Vehicle 2 were coded as “Unknown.” The driver of Vehicle 2 was killed.

| Pre-crash Element                            | Vehicle 1                                             | Vehicle 2                                   |
|----------------------------------------------|-------------------------------------------------------|---------------------------------------------|
| <a href="#">Driver Distracted By</a>         | Not Distracted                                        | Unknown if Distracted                       |
| <a href="#">Pre-Event Movement</a>           | Going Straight                                        | Going Straight                              |
| <a href="#">Critical Precrash (Category)</a> | Object or Animal                                      | Other Motor Vehicle Encroaching Into Lane   |
| <a href="#">Critical Precrash (Event)</a>    | Animal in Road                                        | From Opposite Direction Over Left Lane Line |
| <a href="#">Attempted Avoidance Maneuver</a> | Braking and Steering Left                             | Unknown/Not Reported                        |
| <a href="#">Pre-Impact Stability</a>         | Skidding Longitudinally Rotation Less Than 30 Degrees | Tracking                                    |
| <a href="#">Pre-Impact Location</a>          | Stayed On Roadway, But Left Original Travel Lane      | Stayed in Original Travel Lane              |
| <a href="#">Crash Type</a>                   | 13                                                    | 98                                          |

Vehicle 1 has two **Critical Crash Envelopes** ( $V_1CCE_1$  and  $V_1CCE_2$ ). Vehicle 1’s first **Critical Crash Envelope** ( $V_1CCE_1$ ) begins when the driver recognizes the deer in the roadway and ends at the point of impact with the deer. The Precrash coding is based on the **Critical Crash Envelope** that resulted in Vehicle 1’s first impact ( $V_1CCE_1$ ).

Vehicle 2 has only one **Crash Envelope** ( $V_2CCE$ ) that begins when it’s in imminent path of collision with Vehicle 1 and ends at impact.

[Not Distracted](#) is selected for Vehicle 1 **Driver Distracted By**. The driver took evasive maneuvers to avoid the deer that identifies that the driver was attentive prior to the Critical Event. Also, there were no indications of distraction identified on the crash report for the driver of Vehicle 1 and in the Contributing Factors field, where the officer could assess distraction, he selected “animal in road” and “had been drinking.” It’s important to note that the BAC level or indication of alcohol as a factor in the crash for the driver of Vehicle 1 plays no role in distraction coding.

The **Pre-Impact Location** for Vehicle 1 is [Stayed On Roadway- But Left Original Travel Lane](#) since part of the vehicle was out of its original lane prior to impact with the deer. Similarly, vehicles that depart the road and strike a curb are coded as [Departed the roadway](#) even though the majority of the vehicle is still on the roadway.

The **Crash Type** for Vehicle 1 is [“13,” Pedestrian/Animal on Road](#).

Vehicle 2 **Driver Distracted By** is coded [Unknown if Distracted](#); the deceased driver could not be interviewed by the police and the officer coded “Unknown” in the field where distraction would be assessed.

Since no information was available to assess **Attempted Avoidance Maneuver** [Unknown/Not Reported](#) was selected for Vehicle 2.

The **Crash Type** for Vehicle 2 is [‘98,’ Other](#) since it was not involved in the FIRST HARMFUL EVENT in the crash.

### Example 10

#### Example 10 Diagram



The crash occurred at the intersection of a five-lane east/west roadway with a center left-turn lane and a two-lane north/south roadway. The intersection was controlled by traffic signals. Vehicle 1 was eastbound in the left-turn lane of the five-lane roadway. Vehicle 2 was traveling west on the same roadway. Vehicle 1 had a green turn arrow and attempted to turn left to go north on the intersecting two lane road. Vehicle 2 passed through the intersection and its front struck the right side of Vehicle 1. The officer reported that there was no evidence of avoidance actions by either of the vehicles involved.

“Not Distracted” was identified by police on the crash report for the driver of Vehicle 1. The police crash report did not detail the circumstances regarding Vehicle 2’s passing through the intersection, but the driver was cited for running a red light.

| Precrash Element                             | Vehicle 1                                 | Vehicle 2              |
|----------------------------------------------|-------------------------------------------|------------------------|
| <a href="#">Driver Distracted By</a>         | Not Distracted                            | Not Reported           |
| <a href="#">Pre-Event Movement</a>           | Turning Left                              | Going Straight         |
| <a href="#">Critical Precrash (Category)</a> | Other Motor Vehicle Encroaching into Lane | This Vehicle Traveling |

| Precrash Element                             | Vehicle 1                                    | Vehicle 2                                |
|----------------------------------------------|----------------------------------------------|------------------------------------------|
| <a href="#">Critical Precrash (Event)</a>    | From Opposite Direction Over Right Lane Line | Crossing Over (Passing Through) Junction |
| <a href="#">Attempted Avoidance Maneuver</a> | No Avoidance Maneuver                        | No Avoidance Maneuver                    |
| <a href="#">Pre-Impact Stability</a>         | Tracking                                     | Tracking                                 |
| <a href="#">Pre-Impact Location</a>          | Stayed in Original Travel Lane               | Stayed in Original Travel Lane           |
| <a href="#">Crash Type</a>                   | 68                                           | 69                                       |

In this example, the **Critical Crash Envelope** for both vehicles (V<sub>1</sub>CCE) and (V<sub>2</sub>CCE) begin when they are in an imminent path of collision. The **Critical Crash Envelopes** end at the point of impact.

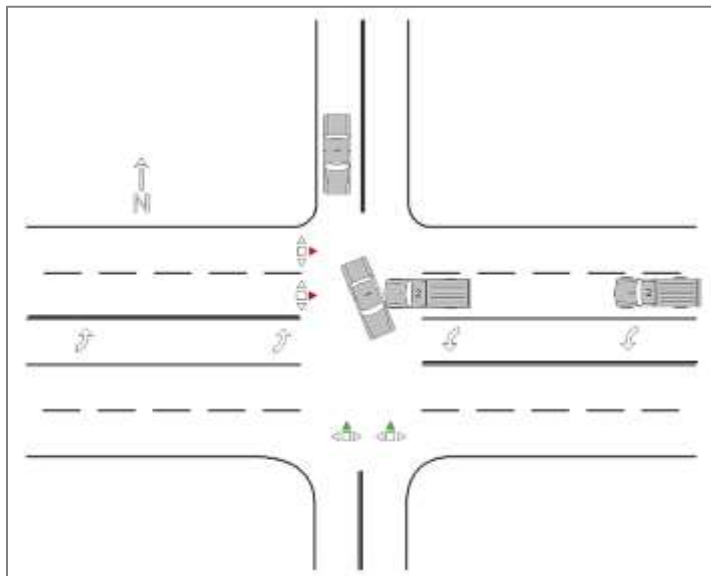
The first portion of [Precrash General Rule #7](#) applies to this crash. It states “When two vehicles are initially traveling on the **same** trafficway and one executes a left turn with the right-of-way (i.e., green arrow), use [Other Motor Vehicle Encroaching Into Lane - From Opposite Direction Over Right Lane Line](#) for the turning vehicle’s **Critical Event**.”

A similar principle applies for Vehicle 1’s **Pre-Impact Location**; it’s considered to have [Stayed in Original Travel Lane](#) while making the turn. Consider Vehicle 1’s “lane” as continuing left as they negotiate the turn through the intersection.

Vehicle 2’s **Driver Distracted By** is coded [Not Reported](#) since the police crash report did not provide any information on distractions.

## Example 11

### Example 11 Diagram



The crash occurred at the intersection of a five-lane east/west roadway with a center left-turn lane and a two-lane north/south roadway. The intersection was controlled by traffic signals.



Vehicle 1 was southbound on the two-lane roadway. Vehicle 2 was traveling west on the five-lane roadway. Vehicle 1 had a green turn arrow and attempted to turn left to travel east on the intersecting five lane road. Vehicle 2 passed through the intersection and its front struck the left side of Vehicle 1.

The driver of Vehicle 1 was attentive and took no avoidance actions. Vehicle 2's driver reported that he was thinking about an issue at work and did not notice the traffic signal until the last moment. He applied his brakes, but no tire marks were present.

| <b>Precrash Element</b>                             | <b>Vehicle 1</b>                          | <b>Vehicle 2</b>                         |
|-----------------------------------------------------|-------------------------------------------|------------------------------------------|
| <a href="#"><u>Driver Distracted By</u></a>         | Not Distracted                            | Lost in Thought/Day Dreaming             |
| <a href="#"><u>Pre-Event Movement</u></a>           | Turning Left                              | Going Straight                           |
| <a href="#"><u>Critical Precrash (Category)</u></a> | Other Motor Vehicle Encroaching Into Lane | This Vehicle Traveling                   |
| <a href="#"><u>Critical Precrash (Event)</u></a>    | From Crossing Street Across Path          | Crossing Over (Passing Through) Junction |
| <a href="#"><u>Attempted Avoidance Maneuver</u></a> | No Avoidance Maneuver                     | Braking                                  |
| <a href="#"><u>Pre-Impact Stability</u></a>         | Tracking                                  | Tracking                                 |
| <a href="#"><u>Pre-Impact Location</u></a>          | Stayed in Original Travel Lane            | Stayed in Original Travel Lane           |
| <a href="#"><u>Crash Type</u></a>                   | 82                                        | 83                                       |

In this example, Vehicle 1's **Critical Crash Envelope** (V<sub>1</sub>CCE) begins at the point where Vehicle 1 is in an imminent collision path with Vehicle 2 and ends at the point of impact.

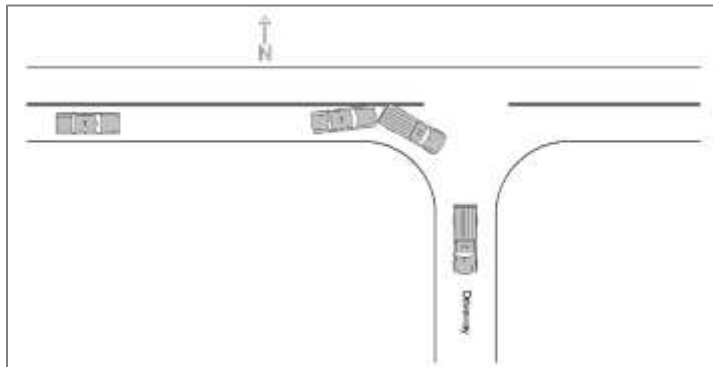
Vehicle 2's **Critical Crash Envelope** (V<sub>2</sub>CCE) begins when the driver recognizes Vehicle 1 turning in front of it in the intersection and ends at impact.

The second portion of [Precrash General Rule #7](#) applies to this crash. It states "When two vehicles are initially traveling on **different** trafficways the **Critical Event** for the vehicle turning left with the right-of-way should be [Other Motor Vehicle Encroaching into Lane-From Crossing Street, Across Path](#)."

Vehicles initially on **different** trafficways are captured in **Crash Type Configuration "K," Turn Into Path** (**Crash Types "76" - "85"**). So, in this case, the **Crash Types** for Vehicle 1 and Vehicle 2 are ["82" and "83"](#) respectively. Turning vehicles initially on the **same** trafficway are coded in **Crash Type Configuration "J," Turn Across Path** (**Crash Types "68" - "75"**). Unlike many of the other **Crash Types**, the plane contacted on the vehicle is irrelevant for the [Change Trafficway \(Category IV\) Crash Types](#).

## Example 12

### Example 12 Diagram



Vehicle 1 was eastbound on a two-lane roadway. Vehicle 2 was backing out of a driveway on the south side of the road, intending to travel east. Vehicle 1 braked and steered left but was unable to avoid striking the rear of Vehicle 2. The driver of Vehicle 2 stated he saw the other vehicle approaching but misjudged its speed and did not think they were going to collide.

The officer indicated that Vehicle 1 was traveling 50 mph in the 35-mph speed zone and applied the brakes just prior to impact but did not leave tire marks. Driver distractions were identified by police for both drivers on the crash report as “None.”

| Precrash Element                             | Vehicle 1                                  | Vehicle 2              |
|----------------------------------------------|--------------------------------------------|------------------------|
| <a href="#">Driver Distracted By</a>         | Not Distracted                             | Not Distracted         |
| <a href="#">Pre-Event Movement</a>           | Going Straight                             | Backing Up             |
| <a href="#">Critical Precrash (Category)</a> | Other Motor Vehicle Encroaching Into Lane  | This Vehicle Traveling |
| <a href="#">Critical Precrash (Event)</a>    | From Driveway, Turning into Same Direction | Backing                |
| <a href="#">Attempted Avoidance Maneuver</a> | Braking and Steering Left                  | No Avoidance Maneuver  |
| <a href="#">Pre-Impact Stability</a>         | Tracking                                   | Tracking               |
| <a href="#">Pre-Impact Location</a>          | Stayed in Original Travel Lane             | Entered Roadway        |
| <a href="#">Crash Type</a>                   | 93                                         | 92                     |

In this example, Vehicle 1’s **Critical Crash Envelope** ( $V_1CCE$ ) begins at the point where the driver recognizes Vehicle 2 is backing into the roadway and recognizes the danger. The **Critical Crash Envelope** for Vehicle 1 ends at impact.

Vehicle 2’s **Critical Crash Envelope** ( $V_2CCE$ ) begins when it’s in imminent path of collision with Vehicle 1 and ends at impact.

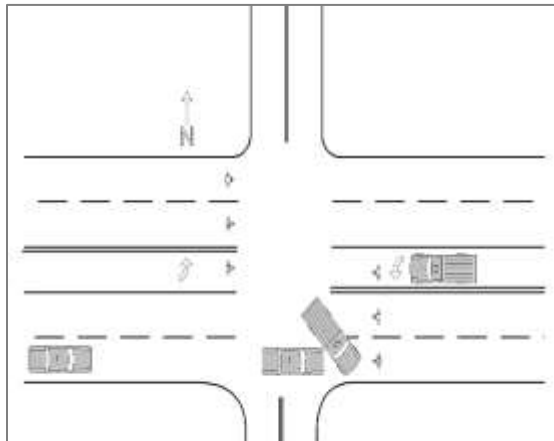
Although Vehicle 1 was traveling 15 mph over the speed limit, the **Critical Precrash Category** for Vehicle 1 is [Other Motor Vehicle Encroaching Into Lane](#). The situation that made the event critical was Vehicle 2’s movement (backing out of the driveway) and not Vehicle 1’s speed. The

**Critical Event** for Vehicle 1 is [From Driveway Turning Into Same Direction](#), since Vehicle 2 **intended** to travel east in the same direction as Vehicle 1.

The **Critical Event** for Vehicle 2 is [This Vehicle Traveling- Backing](#).

### Example 13

#### Example 13 Diagram



Vehicle 1 was eastbound on a five-lane roadway with center left-turn lanes approaching an intersection controlled by a traffic signal. Vehicle 2 was westbound on the same roadway in the left turn lane. The signal was solid green for eastbound and westbound traffic. Vehicle 2 attempted to make a U-turn at the intersection to travel east and was struck in the right side by the front of Vehicle 1. The driver of Vehicle 2 stated he scanned the intersection for traffic but did not see Vehicle 1 approaching. The driver of Vehicle 1 was attentive and saw the other vehicle approaching but did not think it would attempt to turn and consequently had no time to react. Police charged the driver of Vehicle 2 with failure to yield.

| Precrash Element                             | Vehicle 1                                   | Vehicle 2                                       |
|----------------------------------------------|---------------------------------------------|-------------------------------------------------|
| <a href="#">Driver Distracted By</a>         | Not Distracted                              | Not Distracted                                  |
| <a href="#">Pre-Event Movement</a>           | Going Straight                              | Making a U-Turn                                 |
| <a href="#">Critical Precrash (Category)</a> | Other Motor Vehicle Encroaching into Lane   | This Vehicle Traveling                          |
| <a href="#">Critical Precrash (Event)</a>    | From Opposite Direction Over Left Lane Line | Making a U-Turn                                 |
| <a href="#">Attempted Avoidance Maneuver</a> | No Avoidance Maneuver                       | No Avoidance Maneuver                           |
| <a href="#">Pre-Impact Stability</a>         | Tracking                                    | Tracking                                        |
| <a href="#">Pre-Impact Location</a>          | Stayed in Original Travel Lane              | Stayed on Roadway but Left Original Travel Lane |
| <a href="#">Crash Type</a>                   | 98                                          | 98                                              |

In this example, Vehicle 1's **Critical Crash Envelope** (V<sub>1</sub>CCE) begins at the point where the driver recognizes Vehicle 2 is making a U-turn in front of them and ends at impact.

Vehicle 2's **Critical Crash Envelope** (V<sub>2</sub>CCE) begins when it's in imminent path of collision with Vehicle 1 and ends at impact.

The **Critical Event** for Vehicle 1 is [Other Motor Vehicle Encroaching into Lane-From Opposite Direction Over Left Lane Line](#).

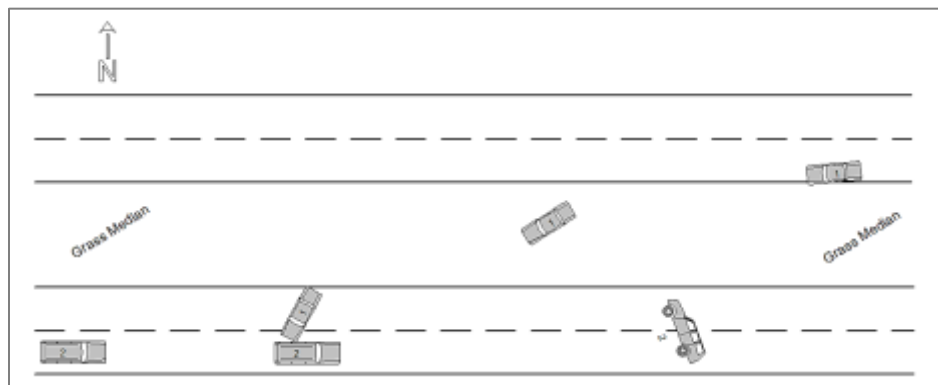
The **Pre-Event Movement** for Vehicle 2 is [Making a U-Turn](#) and the **Critical Event** for Vehicle 2 is [Making a U-Turn](#). If it is unclear if a vehicle is [Turning Left](#) or [Making a U-Turn](#), default to [Turning Left](#).

The key to the **Critical Event** coding in this case is that Vehicle 2 did **not** have the right of way while making the U-turn. If the scenario was altered such that Vehicle 2 was making a legal U-turn **with** the right of way, the first portion of [Precrash General Rule #7](#) would apply and Vehicle 2's **Critical Event** would be [Other Motor Vehicle Encroaching into Lane -From Opposite Direction Over Right Lane Line](#).

The **Crash Type** for both vehicles is, ["98," Other Crash Type](#). This **Crash Type** is used for collisions that do not reasonably fit into any of the specified types. This code includes (but is not limited to): Rollovers on the road, U-turns, third or subsequent vehicles involved in a crash, or the second involved vehicle when the FIRST HARMFUL EVENT involved a vehicle-to-object collision or non-collision.

#### Example 14

##### Example 14 Diagram



Vehicle 1 was traveling westbound on a median divided highway. Vehicle 2 was traveling east on the same highway. The driver of Vehicle 1 reportedly fell asleep and drifted off the left side of the roadway. Vehicle 1 crossed the median and entered the eastbound lanes where its front struck the left side of Vehicle 2. After initial impact Vehicle 2 rotated counterclockwise and rolled over one quarter turn, coming to rest on its right side. The field on the crash report for assessing driver distraction was coded as "Other" for the driver of Vehicle 1 and "None" for the driver of Vehicle 2.

| Preocrash Element                            | Vehicle 1                                    | Vehicle 2                                   |
|----------------------------------------------|----------------------------------------------|---------------------------------------------|
| <a href="#">Driver Distracted By</a>         | Not Distracted                               | Not Distracted                              |
| <a href="#">Pre-Event Movement</a>           | Going Straight                               | Going Straight                              |
| <a href="#">Critical Precrash (Category)</a> | This Vehicle Traveling                       | Other Motor Vehicle Encroaching Into Lane   |
| <a href="#">Critical Precrash (Event)</a>    | Off the Edge of the Road on the Left Side    | From Opposite Direction Over Left Lane Line |
| <a href="#">Attempted Avoidance Maneuver</a> | No Avoidance Maneuver                        | Unknown/Not Reported                        |
| <a href="#">Pre-Impact Stability</a>         | Skidding Laterally Counterclockwise Rotation | Tracking                                    |
| <a href="#">Pre-Impact Location</a>          | Departed Roadway                             | Stayed in Original Travel Lane              |
| <a href="#">Crash Type</a>                   | 64                                           | 65                                          |

In this example, Vehicle 1's **Critical Crash Envelope** (V<sub>1</sub>CCE) begins at the point where the vehicle leaves the initial roadway and ends at impact.

Vehicle 2's **Critical Crash Envelope** (V<sub>2</sub>CCE) begins when the driver recognizes the other vehicle approaching and ends at impact.

Vehicle 1's **Driver Distracted By** is coded as [Not Distracted](#) because the driver was asleep just prior to the Critical Precrash Event and intoxication, illness, blackouts, falling asleep, or being fatigued are not considered distractions for the purposes of this element in FARS and CRSS.

Vehicle 1's **Attempted Avoidance Maneuver** is coded as [No Avoidance Maneuver](#) because this element identifies the driver's action/response to the Critical Event and this driver was asleep.

[Tracking](#) is the appropriate selection for Vehicle 2's **Pre-Impact Stability**. [Precrash General Rule #10](#) states that a vehicle is considered to be "Tracking" if the following conditions are met:

- No skid marks are present on the diagram or mentioned in the narrative,
- The case material does not indicate skidding, and
- The vehicle did not rotate 30 degrees or more.

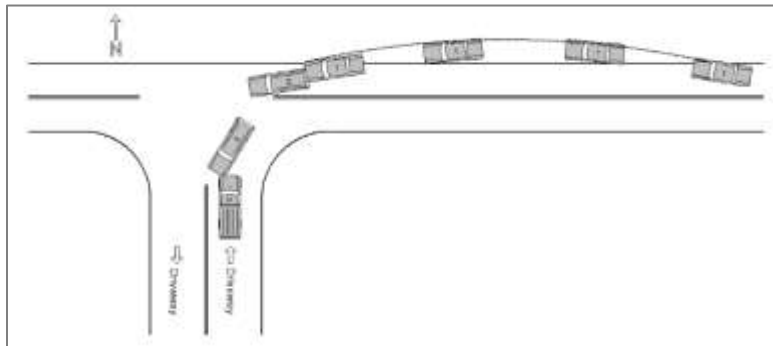
The **Pre-Impact Stability** for Vehicle 1 is [Skidding laterally-counterclockwise rotation](#) since the vehicle rotated 30 degrees or more. The driver need not make any steering inputs or leave tire marks for this attribute to be selected.

Median scenarios sometime cause confusion with the **Pre-Impact Location** element. [Departed Roadway](#) is used for vehicles crossing a median into oncoming traffic, as Vehicle 1 does in this case. A vehicle is considered to have [Returned to Roadway](#) only if it returned to the **same** roadway it was initially traveling on after the **Critical Event**.

The **Crash Type** for Vehicle 1 and Vehicle 2 is ["64" and "65," Angle/Sideswipe](#) respectively since it involved the side plane of one or both of the vehicles. If the collision had involved the front plane of both vehicles, then the **Crash Type** would have been ["50" and "51," Head-On](#).

## Example 15

### Example 15 Diagram



Vehicle 1 was traveling west on a two-lane roadway with a private driveway on the south side of the road. Vehicle 2 was westbound ahead of Vehicle 1 and was decelerating so it could turn left into the private drive. Vehicle 3 was stopped facing north on the driveway access of the private drive. The driver of Vehicle 1 was reportedly daydreaming and did not see Vehicle 2 decelerating in the lane ahead. After realizing Vehicle 2 was in its lane, the driver of Vehicle 1 braked and steered right off the right side of the road (leaving tire marks) and then steered left back into the travel lanes. The front of Vehicle 1 struck the rear of Vehicle 2 before the driver of Vehicle 2 could react. The initial impact pushed Vehicle 2 forward into Vehicle 3. The crash report identified “Not Distracted” for Vehicle 2 and Vehicle 3.

| Precrash Element                             | Vehicle 1                                                | Vehicle 2                      | Vehicle 3                                            |
|----------------------------------------------|----------------------------------------------------------|--------------------------------|------------------------------------------------------|
| <a href="#">Driver Distracted By</a>         | Lost in Thought/Day Dreaming                             | Not Distracted                 | Not Distracted                                       |
| <a href="#">Pre-Event Movement</a>           | Going Straight                                           | Going Straight                 | Stopped in Roadway                                   |
| <a href="#">Critical Precrash (Category)</a> | Other Motor Vehicle in Lane                              | This Vehicle Traveling         | Other Motor Vehicle Encroaching into Lane            |
| <a href="#">Critical Precrash (Event)</a>    | Traveling in Same Direction While Decelerating           | This Vehicle Decelerating      | From Crossing Street-Turning into Opposite Direction |
| <a href="#">Attempted Avoidance Maneuver</a> | Braking and Steering Right                               | No Avoidance Maneuver          | No Avoidance Maneuver                                |
| <a href="#">Pre-Impact Stability</a>         | Skidding Longitudinally<br>Rotation Less Than 30 Degrees | Tracking                       | Tracking                                             |
| <a href="#">Pre-Impact Location</a>          | Returned to Roadway                                      | Stayed in Original Travel Lane | Stayed in Original Travel Lane                       |
| <a href="#">Crash Type</a>                   | 28                                                       | 30                             | 98                                                   |

In this example, Vehicle 1’s **Critical Crash Envelope** (V<sub>1</sub>CCE) begins when the driver recognizes Vehicle 2 is decelerating ahead and ends with impact with Vehicle 2.

Vehicle 2 has two **Critical Crash Envelopes** ( $V_2CCE_1$  and  $V_2CCE_2$ ). Vehicle 2's first **Critical Crash Envelope** ( $V_2CCE_1$ ) begins when it is in imminent path of a collision with Vehicle 1 and ends at the point of impact with Vehicle 1. Use the **Critical Crash Envelope** that resulted in Vehicle 2's first impact ( $V_2CCE_1$ ), because Precrash coding is associated with the **Critical Crash Envelope** that leads to a vehicle's first harmful event.

The **Critical Event** for Vehicle 1 is [Other Motor Vehicle in Lane-Traveling in Same Direction While Decelerating](#), even though the vehicle departed the right side of the roadway prior to striking Vehicle 2. Determining the **Critical Event** can be made easier by using the “**But For**” test. In this example “But For” Vehicle 2 being in this vehicle's lane, it would not have been involved in the crash.

Vehicle 1's **Attempted Avoidance Maneuver** is *Braking and Steering Right*, because that was the driver's initial action in response to the realization of impending danger. Vehicle 1 steering left back into the roadway is not considered in this case. Vehicle 3's **Attempted Avoidance Maneuver** is [No Avoidance Maneuver](#) because the vehicle was stopped.

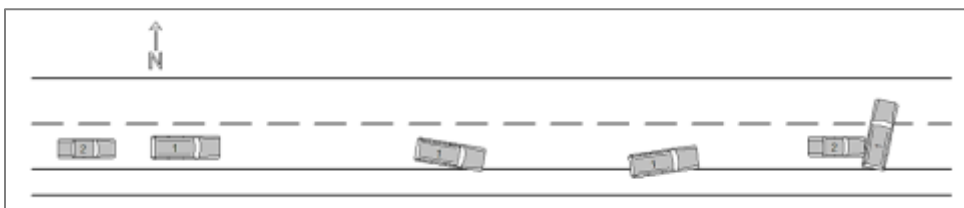
The **Pre-Impact Location** for Vehicle 1 is [Returned to Roadway](#), since the vehicle returned to the **same** roadway during the Precrash motion.

The **Crash Type** for Vehicle 1 and Vehicle 2 is “28” [Rear-End: Decelerating \(Slowing\)](#) – “30,” [Rear-End: Decelerating, Going Left](#) respectively based on three factors:

- The front to rear impact configuration,
- Vehicle 2's decelerating (as opposed to stopped or lower steady speed), and
- Vehicle 2's **intent** to turn left into the private drive.

## Example 16

### Example 16 Diagram



Vehicle 1 was traveling east in the right lane of a straight and level divided highway with shoulders. Vehicle 2 was eastbound in the right lane behind Vehicle 1. Conditions were daylight with rain falling and fog. All indications are that both vehicles were driving at or near the speed limit. Vehicle 1 edged off the right side of the roadway onto the shoulder and the driver overcorrected, braking and steering left, back into its original lane. The vehicle went into a counterclockwise yaw and was struck on the left side by the front of Vehicle 2.

Police indicated the driver of Vehicle 1 was “Distracted” and that the driver of Vehicle 2 was “Not Distracted.”

| Pre-crash Element                             | Vehicle 1                                       | Vehicle 2                                      |
|-----------------------------------------------|-------------------------------------------------|------------------------------------------------|
| <a href="#">Driver Distracted By</a>          | Distraction (Distracted), Details Unknown       | Not Distracted                                 |
| <a href="#">Pre-Event Movement</a>            | Going Straight                                  | Going Straight                                 |
| <a href="#">Critical Pre-crash (Category)</a> | This Vehicle Traveling                          | Other Motor Vehicle in Lane                    |
| <a href="#">Critical Pre-crash (Event)</a>    | Over the Lane Line on Right Side of Travel Lane | Traveling in Same Direction While Decelerating |
| <a href="#">Attempted Avoidance Maneuver</a>  | Braking and Steering Left                       | Unknown/Not Reported                           |
| <a href="#">Pre-Impact Stability</a>          | Skidding Laterally-Counter-Clockwise Rotation   | Tracking                                       |
| <a href="#">Pre-Impact Location</a>           | Returned to Roadway                             | Stayed in Original Travel Lane                 |
| <a href="#">Crash Type</a>                    | 48                                              | 48                                             |

Vehicle 1's **Critical Crash Envelope** (V<sub>1</sub>CCE) begins when the driver realizes the vehicle is departing the travel lane and ends at impact.

The **Critical Crash Envelope** for Vehicle 2 (V<sub>2</sub>CCE) begins when the vehicle is in imminent path of collision with Vehicle 1 and ends at impact.

[Distraction \(Distracted\), Details Unknown](#) is selected for Vehicle 1 **Driver Distracted By**. Police reported the driver was distracted, although the specific distraction was not identified.

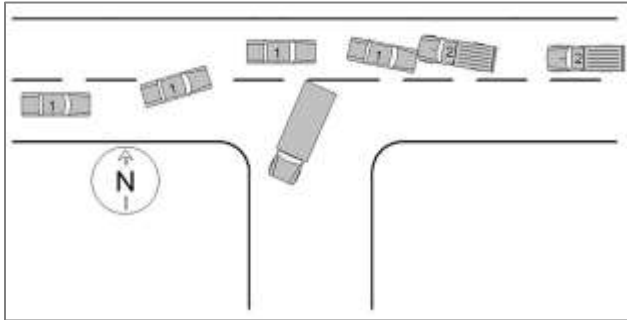
The presence of rain and fog does not affect Vehicle 1's **Critical Event** of [This Vehicle Traveling-Off The Edge of the Road On the Right Side](#) in this case. Do not assume that [This Vehicle Loss of Control Critical Events](#) such as [Poor Road Conditions](#) or [Traveling Too Fast for Conditions](#) are always selected just because the weather and/or road conditions were not optimal.

When determining **Crash Type**, it is important to keep in mind that some **Crash Configurations** are plane of impact dependent, while others are not. In this case the **Crash Type** for both vehicles are ["48," Sideswipe/Angle: Specifics Other](#). The vehicles were traveling in the same trafficway in the same direction ([Crash Type Category II](#)) and the impact involved the side of one or both of the vehicles ([Crash Type Configuration F](#)). If the impact had been front to rear, [Crash Configuration D \(Rear-End\)](#) would have applied.



## Example 17

### Example 17 Diagram



Vehicle 1 is traveling eastbound. A non-contact vehicle (NCV) is westbound and attempts to turn left in front of Vehicle 1 into an intersecting private driveway. Vehicle 1 braked and steered left to avoid the non-contact vehicle. The driver of Vehicle 1 successfully avoided the non-contact vehicle and maintained full control but crossed into the westbound lane. Now traveling the wrong way in the westbound lane, Vehicle 1 recognized that Vehicle 2 was in his path and attempted to steer right and return to the eastbound lane but struck Vehicle 2 head on. Vehicle 2 attempted to avoid the crash by braking and steering right. The crash report was coded as “Not Distracted” for both drivers.

| Precrash Element                             | Vehicle 1                                                  | Vehicle 2                       |
|----------------------------------------------|------------------------------------------------------------|---------------------------------|
| <a href="#">Driver Distracted By</a>         | Not Distracted                                             | Not Distracted                  |
| <a href="#">Pre-Event Movement</a>           | Successful Avoidance Maneuver to a Previous Critical Event | Going Straight                  |
| <a href="#">Critical Precrash (Category)</a> | Other Motor Vehicle in Lane                                | Other Motor Vehicle in Lane     |
| <a href="#">Critical Precrash (Event)</a>    | Traveling in Opposite Direction                            | Traveling in Opposite Direction |
| <a href="#">Attempted Avoidance Maneuver</a> | Steering Right                                             | Braking and Steering Right      |
| <a href="#">Pre-Impact Stability</a>         | Tracking                                                   | Tracking                        |
| <a href="#">Pre-Impact Location</a>          | Stayed in Original Travel Lane                             | Stayed in Original Travel Lane  |
| <a href="#">Crash Type</a>                   | 52                                                         | 52                              |

In this example, Vehicle 1 has two **Critical Crash Envelopes** ( $V_1CCE_1$  and  $V_1CCE_2$ ). Vehicle 1’s first **Critical Crash Envelope** ( $V_1CCE_1$ ) ends at the point where the driver of Vehicle 1 made a successful avoidance maneuver and maintained full control of the vehicle. Vehicle 1’s second **Critical Crash Envelope** ( $V_1CCE_2$ ) begins shortly after the successful avoidance maneuver and ends at the point of impact with Vehicle 2. For coding purposes, use the **Critical Crash Envelope** that resulted in Vehicle 1’s first impact ( $V_1CCE_2$ ).

Vehicle 2 has one **Critical Crash Envelope** ( $V_2CCE_1$ ), which begins at the point where the driver of Vehicle 2 recognizes Vehicle 1 in their lane and ends at the point of impact with Vehicle 1.

The **Crash Type** for both vehicles is coded “52,” [Head-On: Specifics Other](#) because Vehicle 1 had full control traveling the wrong way.

#### **Example 18: Precrash Event Scenarios for Different Rear-End Collision Situations**

Rear-end crashes sometimes cause confusion with precrash coding. Two key points must be determined to accurately code the [Pre-Event Movement](#), [Critical Event - Precrash \(Category\)](#) and [Critical Event - Precrash \(Event\)](#):

- Was the lead vehicle stopped, decelerating, or traveling at a steady speed?
- Did the trailing vehicle decelerate prior to impact?

The following scenarios should be used as a guide.

#### ***Two Vehicle Collisions***

**Scenario 1:** Both vehicles in motion. Leading vehicle, traveling at steady speed, is struck from behind by trailing vehicle.

| <b>Vehicle Position</b> | <b>Pre-Event Movement</b> | <b>Critical Precrash (Category)</b> | <b>Critical Precrash (Event)</b>                    |
|-------------------------|---------------------------|-------------------------------------|-----------------------------------------------------|
| Trailing                | Going Straight            | Other Motor Vehicle in Lane         | Traveling in Same Direction with Lower Steady Speed |
| Lead                    | Going Straight            | Other Motor Vehicle in Lane         | Traveling in Same Direction with Higher Speed       |

**Scenario 2:** Both vehicles traveling at same speed. Lead vehicle decelerates and trailing vehicle continues at initial speed. Trailing vehicle eventually applies brakes before striking the lead vehicle that is not yet stopped.

| <b>Vehicle Position</b> | <b>Pre-Event Movement</b> | <b>Critical Precrash (Category)</b> | <b>Critical Precrash (Event)</b>               |
|-------------------------|---------------------------|-------------------------------------|------------------------------------------------|
| Trailing                | Going Straight            | Other Motor Vehicle in Lane         | Traveling in Same Direction While Decelerating |
| Lead                    | Going Straight            | This Vehicle Traveling              | This Vehicle Decelerating                      |

**Scenario 3:** Both vehicles traveling at same speed. Lead vehicle stops and is immediately struck by trailing vehicle.

| Vehicle Position | Pre-Event Movement | Critical Precrash (Category) | Critical Precrash (Event)                      |
|------------------|--------------------|------------------------------|------------------------------------------------|
| Trailing         | Going Straight     | Other Motor Vehicle in Lane  | Traveling in Same Direction While Decelerating |
| Lead             | Going Straight     | Other Motor Vehicle in Lane  | Traveling in Same Direction with Higher Speed  |

**Scenario 4:** Lead vehicle is stopped on roadway and is struck by a trailing vehicle.

| Vehicle Position | Pre-Event Movement | Critical Precrash (Category) | Critical Precrash (Event)                     |
|------------------|--------------------|------------------------------|-----------------------------------------------|
| Trailing         | Going Straight     | Other Motor Vehicle in Lane  | Other Vehicle Stopped                         |
| Lead             | Stopped in Road    | Other Motor Vehicle in Lane  | Traveling in Same Direction with Higher Speed |

**Scenario 5:** Lead and trailing vehicle stopped on roadway. Lead vehicle backs into trailing vehicle.

| Vehicle Position | Pre-Event Movement | Critical Precrash (Category) | Critical Precrash (Event) |
|------------------|--------------------|------------------------------|---------------------------|
| Trailing         | Stopped in Road    | Other Motor Vehicle in Lane  | Backing                   |
| Lead             | Stopped in Road    | This Vehicle Traveling       | Backing                   |

### ***Three Vehicle Collisions***

**Scenario 6:** Two vehicles stopped in traffic, struck by decelerating trailing vehicle.

| Vehicle Position | Pre-Event Movement | Critical Precrash (Category) | Critical Precrash (Event)                      |
|------------------|--------------------|------------------------------|------------------------------------------------|
| Trailing         | Decelerating       | Other Motor Vehicle in Lane  | Other Vehicle Stopped                          |
| Middle           | Stopped in Road    | Other Motor Vehicle in Lane  | Traveling in Same Direction while Decelerating |
| Lead             | Stopped in Road    | Other Motor Vehicle in Lane  | Traveling in Same Direction with Higher Speed  |

**Scenario 7:** Lead vehicle stopped in traffic, middle vehicle decelerating, trailing vehicle strikes middle vehicle that strikes lead vehicle.

| <b>Vehicle Position</b> | <b>Pre-Event Movement</b> | <b>Critical Precrash (Category)</b> | <b>Critical Precrash (Event)</b>               |
|-------------------------|---------------------------|-------------------------------------|------------------------------------------------|
| Trailing                | Going Straight            | Other Motor Vehicle in Lane         | Traveling in Same Direction while Decelerating |
| Middle                  | Decelerating              | Other Motor Vehicle in Lane         | Traveling in Same Direction with Higher Speed  |
| Lead                    | Stopped in Road           | Other Motor Vehicle in Lane         | Traveling in Same Direction with Higher Speed  |

### PC3 - Vehicle Number - Precrash Level

**FORMAT:** 3 numeric

**SAS NAME:** Vehicle.VEH\_NO

#### ELEMENT VALUES:

| Codes   | Attributes      |
|---------|-----------------|
| 001-999 | Assigned Number |

**Definition:** This element identifies the number assigned to this vehicle in the crash.

**Remarks:** Each motor vehicle in a crash must be assigned a unique number by the Analyst. Order is not important.

Numbers assigned to vehicles must be consecutive, starting with “001” with no missing numbers.

## PC4 - Contributing Circumstances, Motor Vehicle

**FORMAT:** 2 numeric. Select All That Apply.

**SAS NAME:** *Factor.VEHICLECC*

**ELEMENT VALUES:**

| Codes | Attributes                                                 |
|-------|------------------------------------------------------------|
| 00    | <a href="#">None <i>Noted</i></a>                          |
| 01    | <a href="#">Tires</a>                                      |
| 02    | <a href="#">Brake System</a>                               |
| 03    | <a href="#">Steering</a>                                   |
| 04    | <a href="#">Suspension</a>                                 |
| 05    | <a href="#">Power Train</a>                                |
| 06    | <a href="#">Exhaust System</a>                             |
| 07    | Head Lights                                                |
| 08    | Signal Lights                                              |
| 09    | <a href="#">Other Lights</a>                               |
| 10    | Wipers                                                     |
| 11    | <a href="#">Wheels</a>                                     |
| 12    | Mirrors                                                    |
| 13    | <a href="#">Windows/Windshield</a>                         |
| 14    | <a href="#">Body/Doors</a>                                 |
| 15    | <a href="#">Truck Coupling/Trailer Hitch/Safety Chains</a> |
| 16    | <a href="#">Safety Systems</a>                             |
| 17    | <a href="#">Vehicle Contributing Factors - No Details</a>  |
| 97    | <a href="#">Other</a>                                      |
| 99    | <a href="#">Reported as Unknown</a>                        |

**Definition:** This element describes the possible pre-existing motor vehicle defects or maintenance conditions that may have contributed to the crash.

**Remarks:** Rationale: Important for determining the significance of pre-existing problems, including equipment and operation, in motor vehicles involved in crashes that could be useful in determining the need for improvements in manufacturing and consumer alerts.

**00 (None Noted)** is used:

- when the case material make a positive statement that the vehicle had no defects, or “none” was indicated on the police crash report.
- when the case material does not indicate a defect in an available field and not reporting a defect in that field indicates “None.”
- when the investigating officer is limited in selection and cannot select a defect in addition to another factor relevant to crash and no other indication of a defect exists in the case material.
- ***When the case material are silent on this information and there is no reason to suspect a pre-existing motor vehicle defect or maintenance condition exists that may have contributed to the crash.***

**01 (Tires)** include any defect (e.g., lost/losing re-tread) or maintenance issue of a tire (e.g., one or more bald tires). If the contributing factor is of the wheel (e.g., a lug nut comes off), then use [\*\*11 \(Wheels\)\*\*](#). If the officer noted this driver was driving with a “donut”/spare tire, improperly sized tire(s), driving on run-flats in an air-out situation, etc., see RELATED FACTORS-DRIVER LEVEL [\*\*057 \(Driving with Tire Related Problems\)\*\*](#) *and the table for comparison example coding situations.*

**02 (Brake System)** includes parking brakes.

**03 (Steering)** is used when the case material indicate the following may have contributed to the crash: tie rod ends, kingpins, power steering components, and ball joints.

**04 (Suspension)** is used when the case material indicate that the vehicle’s suspension components may have contributed to the crash. These include, springs, shock absorbers, struts, and control arms.

**05 (Power Train)** is used when the case material indicate that the vehicle’s power train components may have contributed to the crash. Examples are universal joints, drive shaft, and transmission. This also includes engine, differential, and stuck throttles.

**06 (Exhaust System)** includes exhaust manifold(s), headers, muffler, catalytic converter, tailpipe, etc.

**09 (Other Lights)** is used for an indication of missing or inoperative taillights on the vehicle or trailer contributing to the crash. It is also used when the case material indicated the “lights” of the vehicle contributed to the crash, but the type of light is not specified.

**11 (Wheels)** includes loss of lug nuts.

**13 (Windows/Windshield)** is used when there is a pre-existing defect to the windows or windshield such as improper tinting or cracks.

**14 (Body/Doors)** includes trunk, hood, tailgate, rear doors of cargo vans, etc.

**15 (Truck Coupling/Trailer Hitch/Safety Chains)** applies to a defective trailer hitch or an improper trailer hitch.

**16 (Safety Systems)** is used when the case material indicate that the air bags failed to deploy, or the air bag deployed inappropriately. Also, use this when a seat belt failure is described, such as webbing that was excessively worn or came unlatched. Excludes: improper use.

**17 (Vehicle Contributing Factors - No Details)** is used if a vehicle “factor” or “defect” is indicated in the case material but no information is given concerning the nature of the “factor.”

**97 (Other)** includes any other component described in the case material that is not listed in the above attribute list, such as horns.

**99 (Reported as Unknown)** is used only if the case material specifically indicates an “unknown defect” or “unknown contributing factor.”

**Consistency Checks [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                                                      | <b>THEN</b>                                                                       |
|-----------------|----------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 1L4P            | any DRIVER’S VISION OBSCURED BY equals 09,                     | at least one CONTRIBUTING CIRCUMSTANCES, MOTOR VEHICLE must equal 97.             |
| 1L5P            | any DRIVER’S VISION OBSCURED BY equals 10,                     | at least one CONTRIBUTING CIRCUMSTANCES, MOTOR VEHICLE must equal 07 or 08 or 09. |
| 3D70            | CRITICAL EVENT - PRECRASH (EVENT) equals 01-04,                | CONTRIBUTING CIRCUMSTANCES, MOTOR VEHICLE must not equal 00.                      |
| 3DB0            | any CONTRIBUTING CIRCUMSTANCES, MOTOR VEHICLE equals 00 or 99, | only that one code and no other must be coded for this vehicle.                   |
| V990            | any SEQUENCE OF EVENTS equals 61,                              | CONTRIBUTING CIRCUMSTANCES, MOTOR VEHICLE should not equal 00.                    |



## PC5 - Trafficway Description

**FORMAT:** 1 numeric

**SAS NAME:** Vehicle.VTRAFWAY

**ELEMENT VALUES:**

| Codes | Attributes                                                            |
|-------|-----------------------------------------------------------------------|
| 0     | <a href="#">Non-Trafficway or Driveway Access</a>                     |
| 1     | <a href="#">Two-Way, Not Divided</a>                                  |
| 2     | <a href="#">Two-Way, Divided, Unprotected Median</a>                  |
| 3     | <a href="#">Two-Way, Divided, Positive Median Barrier</a>             |
| 5     | <a href="#">Two-Way, Not Divided with a Continuous Left-Turn Lane</a> |
| 4     | <a href="#">One-Way Trafficway</a>                                    |
| 6     | <a href="#">Entrance/Exit Ramp</a>                                    |
| 8     | <a href="#">Not Reported</a>                                          |
| 9     | <a href="#">Reported as Unknown</a>                                   |

**Definition:** This element identifies the value indicated in the case material that best describes the trafficway flow just prior to this vehicle's [CRITICAL PRECRASH EVENT](#).

**Remarks:** Enter the value indicated in the case material that best describes the trafficway flow just prior to this vehicle's [CRITICAL PRECRASH EVENT](#). For vehicles departing the trafficway prior to their CRITICAL PRECRASH EVENT, the trafficway selected for classification is the one the vehicle departed. If this vehicle is in a junction just prior to its CRITICAL PRECRASH EVENT, the trafficway selected for classification is the one it is on before entering the junction.

**See the [Coding Guide: Trafficway Components](#) for helpful information.**

A trafficway may include several roadways if it is a physically divided highway. Trafficways are not physically divided unless the divider is a median, barrier, or other constructed device.

**Pavement markings do qualify when they meet the definition of a median.** Refer to the definition of [03 \(On Median\)](#) under RELATION TO TRAFFICWAY.

A channelized lane should be considered a turn lane of the roadway it is part of, not a separate one-way roadway. Therefore, crashes occurring in a channelized lane should not be coded as on a separate trafficway but should reflect the trafficway the vehicle was on before entering the channel.

**0 (Non-Trafficway or Driveway Access)** is used when this vehicle is entering a trafficway but was not on a trafficway prior to its [CRITICAL PRECRASH EVENT](#) or when the vehicle was in a driveway access prior to its CRITICAL PRECRASH EVENT.

**1 (Two-Way, Not Divided)** is used whenever there is no median. Generally, medians are not designed to legally carry traffic. Any painted markings on the roadway less than four feet wide

are not medians. **NOTE:** Although gores separate roadways, and traffic islands (associated with channels) separate travel lanes, neither is involved in the determination of trafficway division.

**5 (Two-Way, Not Divided, with a Continuous Left-Turn Lane)** is used whenever the trafficway has a two-way left turn lane positioned between opposing straight-through travel lanes. It is designed to allow left turns to driveways, shopping centers, businesses, etc., while at the same time providing a separation of opposing straight-through travel lanes.

**2 (Two-Way, Divided, Unprotected Median)** is used whenever the trafficway is physically divided; however, the division is unprotected (e.g., vegetation, gravel, paved medians, trees, water, embankments, painted medians greater than 4 feet, and ravines that separate a trafficway (i.e., all non-manufactured barriers)). **NOTE:** Curbs alone are not traffic barriers; therefore, raised curbed medians **DO NOT** constitute a positive barrier in and by themselves. Without a positive barrier, curbed medians are examples of **2 (Two-Way, Divided, Unprotected Medians)**. The unprotected medians can be of any width; however, painted, paved, flush areas must be at least 4 feet in width to constitute a median strip. **Continuous Left-turn Lanes are not considered Unprotected Medians** (see [5 \(Two-Way, Not Divided, with a Continuous Left-Turn Lane\)](#)).

**3 (Two-Way, Divided, Positive Median Barrier)** is used whenever the traffic is physically divided and the division is protected by any concrete, metal, or other type of longitudinal barrier (i.e., all manufactured barriers). For underpass support structures and bridge rails acting as a barrier, use this attribute.

Traffic Barrier refers to a physical structure such as a guardrail, a concrete safety barrier, or a rock wall that has the primary function of preventing cross-median travel by deflecting and redirecting vehicles along the roadway on which they were traveling. Therefore, trees, curbing, rumble strips, and drain depressions are not barriers.

All traffic barriers are constructed on a median strip; therefore, if a traffic barrier exists on a divided highway, **3 (Two-Way, Divided, Positive Median Barrier)** must be used. If it is not known whether a barrier exists or not, assume one does and use **3 (Two-Way, Divided, Positive Median Barrier)** (that is, if a median is known to exist).

**4 (One-Way Trafficway)** is used whenever the trafficway is undivided and traffic flows in one direction (e.g., one-way streets).

**6 (Entrance/Exit Ramp)** is an auxiliary or connecting roadway used for entering or exiting through-traffic lanes of a limited access roadway.

**8 (Not Reported)** *Check to see if [0 \(Non-Trafficway or Driveway Access\)](#) or [9 \(Reported as Unknown\)](#) are more appropriate for the situation.*

If a State's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks is NOT considered "**Not Reported**."

Code **8 (Not Reported)** in these two situations:

1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).

2. A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

**9 (Reported as Unknown)** is used when police indicate unknown.

**Consistency Checks** ([See Section 400](#)):

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                | <b>THEN</b>                                                                                                |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| 250P            | RELATION TO JUNCTION (b) equals 01, 02, 04, 06, 07, 16-19, 98, 99, and RELATION TO TRAFFICWAY equals 03,                                                                 | TRAFFICWAY DESCRIPTION should equal 2, 3 for at least one vehicle involved in the first harmful event.     |
| 254P            | RELATION TO TRAFFICWAY equals 01, and RELATION TO JUNCTION (b) equals 20,                                                                                                | TRAFFICWAY DESCRIPTION must equal 6 for at least one vehicle involved in the FIRST HARMFUL EVENT.          |
| 258P            | RELATION TO JUNCTION (b) is 05 or 20                                                                                                                                     | TRAFFICWAY DESCRIPTION should equal 6 for <b>at least one</b> vehicle involved in the FIRST HARMFUL EVENT. |
| 740P            | RELATION TO JUNCTION (b) equals 07,                                                                                                                                      | TRAFFICWAY DESCRIPTION must equal 2, 3 for at least one vehicle.                                           |
| <b>A091</b>     | <b>NUMBER OF VEHICLE FORMS SUBMITTED is greater than one, and CRITICAL EVENT – PRECRASH (EVENT) equals 70-73,</b>                                                        | <b>TRAFFICWAY DESCRIPTION should equal 0 for at least one other vehicle in the crash.</b>                  |
| <b>A16A</b>     | <b>FUNCTIONAL SYSTEM equals 1, and STATE does not equal 02, and RELATION TO JUNCTION equals 01, 07, 18, or 19,</b>                                                       | <b>TRAFFICWAY DESCRIPTION should equal 2 or 3.</b>                                                         |
| A292            | any TRAFFICWAY DESCRIPTION, TOTAL LANES IN ROADWAY, ROADWAY ALIGNMENT, ROADWAY GRADE, ROADWAY SURFACE TYPE, or ROADWAY SURFACE CONDITIONS equals 0, 00 for this vehicle, | all must equal 0, 00, and SPEED LIMIT must equal 00 for this vehicle.                                      |
| A470            | WORK ZONE equals 0, and TRAFFICWAY DESCRIPTION equals 1-3, 5,                                                                                                            | TOTAL LANES IN ROADWAY should not equal 1.                                                                 |
| A481            | TRAFFICWAY DESCRIPTION equals 6, and RELATION TO JUNCTION (b) does not equal 02, 03,                                                                                     | TOTAL LANES IN ROADWAY should equal 1, 2, 8, 9.                                                            |
| A482            | TRAFFICWAY DESCRIPTION equals 4 or 6,                                                                                                                                    | TOTAL LANES IN ROADWAY should not equal 5-7.                                                               |
| A491            | TRAFFICWAY DESCRIPTION equals 2 or 3,                                                                                                                                    | TOTAL LANES IN ROADWAY should not equal 7.                                                                 |

| <b>Error ID</b> | <b>IF</b>                                                                                                  | <b>THEN</b>                                                                                            |
|-----------------|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| A492            | TRAFFICWAY DESCRIPTION equals 2, 3, 5, 6,                                                                  | SPEED LIMIT must not equal 00.                                                                         |
| A493            | TRAFFICWAY DESCRIPTION equals 2, 3, 5,                                                                     | SPEED LIMIT should be greater than 15.                                                                 |
| A494            | TRAFFICWAY DESCRIPTION equals 6,                                                                           | ROADWAY GRADE should not equal 3, 4.                                                                   |
| A495            | TRAFFICWAY DESCRIPTION equals 0,                                                                           | the first event in SEQUENCE OF EVENTS for this vehicle should not equal 63, 64, 69, or 71.             |
| A496            | <b>RELATION TO JUNCTION (b) does not equal 02 or 03, and</b> TRAFFICWAY DESCRIPTION equals 5,              | TOTAL LANES IN ROADWAY should not equal 1, 2, 4, or 6.                                                 |
| A610            | RELATION TO TRAFFICWAY equals 01, and RELATION TO JUNCTION (b) equals 05,                                  | TRAFFICWAY DESCRIPTION should equal 6 for at least one vehicle involved in the FIRST HARMFUL EVENT.    |
| A611            | TRAFFICWAY DESCRIPTION equals 6 for at least one vehicle involved in the FIRST HARMFUL EVENT,              | RELATION TO JUNCTION (b) should equal 02, 03, 05, 17-20.                                               |
| A620            | CRASH TYPE equals 06-10, and TRAFFICWAY DESCRIPTION equals 3,                                              | RELATION TO TRAFFICWAY should equal 03 or 12.                                                          |
| A881            | RELATION TO TRAFFICWAY equals 11,                                                                          | TRAFFICWAY DESCRIPTION should equal 5 for at least one vehicle.                                        |
| AM2P            | any SEQUENCE OF EVENTS equals 25 or 57,                                                                    | TRAFFICWAY DESCRIPTION should equal 3, 6.                                                              |
| <b>B18P</b>     | <b>CRITICAL EVENT – PRECRASH (EVENT) equals 70-73,</b>                                                     | <b>TRAFFICWAY DESCRIPTION must not equal 0 for this vehicle.</b>                                       |
| <b>V536</b>     | <b>CRASH TYPE equals 20-49,</b>                                                                            | <b>TRAFFICWAY DESCRIPTION should be the same for the vehicles involved in the FIRST HARMFUL EVENT.</b> |
| U675            | UNLIKELY: TRAFFICWAY DESCRIPTION equals 1, 4, or 5, and any SEQUENCE OF EVENTS equals 65 for this vehicle. | --                                                                                                     |

**Consistency Check (CRSS Only) ([See Section 400](#)):**

| <b>Error ID</b> | <b>IF</b>                                                                                                                        | <b>THEN</b>                                                                                             |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| A3H0            | INTERSTATE HIGHWAY equals 1, and RELATION TO JUNCTION (a) equals 1, and RELATION TO JUNCTION (b) is not equal to 03 or 05 or 20, | TRAFFICWAY DESCRIPTION should not equal 4 for at least one vehicle involved in the FIRST HARMFUL EVENT. |

**Consistency Checks (FARS Only) ([See Section 400](#)):**

| <b>Error ID</b> | <b>IF</b>                                         | <b>THEN</b>                                                           |
|-----------------|---------------------------------------------------|-----------------------------------------------------------------------|
| A300            | ROUTE SIGNING equals 1,                           | TRAFFICWAY DESCRIPTION should equal 2, 3, 6 for at least one vehicle. |
| A490            | TRAFFICWAY DESCRIPTION equals 2, 3, 5,            | ROADWAY SURFACE TYPE should not equal 4, 5, 7.                        |
| A720            | LAND USE AND FUNCTIONAL SYSTEM (b) equals 01, 02, | TRAFFICWAY DESCRIPTION should equal 2, 3, 6 for at least one vehicle. |

## PC6 - Total Lanes in Roadway

**FORMAT:** 1 numeric

**SAS NAME:** Vehicle.VNUM\_LAN

**ELEMENT VALUES:**

| Codes | Attributes                                        |
|-------|---------------------------------------------------|
| 0     | <a href="#">Non-Trafficway or Driveway Access</a> |
| 1     | One Lane                                          |
| 2     | Two Lanes                                         |
| 3     | Three Lanes                                       |
| 4     | Four Lanes                                        |
| 5     | Five Lanes                                        |
| 6     | Six Lanes                                         |
| 7     | Seven or More Lanes                               |
| 8     | <a href="#">Not Reported</a>                      |
| 9     | <a href="#">Reported as Unknown</a>               |

**Definition:** This element identifies the value indicated in the case material that best describes the number of roadway lanes just prior to this vehicle's [CRITICAL PRECRASH EVENT](#).

**Remarks:** For vehicles departing the trafficway prior to their [CRITICAL PRECRASH EVENT](#), the trafficway selected for classification is the one the vehicle departed. If this vehicle is in a junction just prior to its CRITICAL PRECRASH EVENT, the roadway selected for classification is the one it is on before entering the junction.

**See the [Coding Guide: Total Lanes in Roadway](#) for helpful information.**

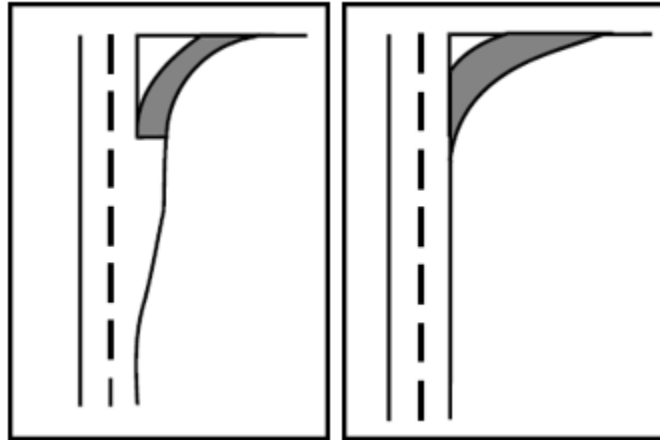
A Trafficway may have several Roads or, if undivided, a single Road. A Road consists of the travel lanes plus any adjacent shoulder(s) or parking lanes. A Trafficway consists of all Roads plus any roadsides, medians, or dividers. The travel lanes constitute the Roadway. A Road is the Roadway plus any adjacent Shoulder(s). The TOTAL LANES IN ROADWAY counted here include the travel lanes but not the shoulder(s).

The number of lanes counted does not include any of which are rendered unusable by restriction of the right-of-way (e.g., closed due to construction).

If turn bays, acceleration, deceleration, or center 2-way left turn lanes exist and are physically located within the cross section of the roadway, and these lanes are the most representative of the driver's environment just prior to the [CRITICAL PRECRASH EVENT](#), then they are to be included in the number of lanes. Because a channelized lane is separated, it should not be included unless it is preceded by a turn bay or turn lane and this bay or lane is felt to be most representative of the driver's environment just prior to impact.

Channelized lanes are separated from other through or turn related lanes. (**NOTE:** The separation normally will not involve a physical barrier.) If the channel is most representative of the driver's critical precrash environment, count the number of lanes in the channel for this element. (See Examples of Channelized lanes [Figure 24](#).)

*Figure 24: Channel with Turn Bay, Channel without Turn Bay*



**0 (Non-Trafficway or Driveway Access)** is used when this vehicle is entering a trafficway but was not on a trafficway prior to its [CRITICAL PRECRASH EVENT](#), or when the vehicle was in a driveway access prior to its CRITICAL PRECRASH EVENT.

If traffic flows in both directions and is undivided, code the total number of lanes in both directions. If the trafficway is divided into two or more roadways, code only the number of lanes for the roadway on which this vehicle was traveling. **Be aware that the case material may indicate the total number of lanes on the divided trafficway.**

**8 (Not Reported)** Check to see if [9 \(Reported as Unknown\)](#) is more appropriate for the situation.

If a State's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks is NOT considered "**Not Reported.**"

Code **8 (Not Reported)** in these two situations:

1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

**9 (Reported as Unknown)** is used when police indicate unknown.

**Consistency Checks [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                | <b>THEN</b>                                                           |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| A292            | any TRAFFICWAY DESCRIPTION, TOTAL LANES IN ROADWAY, ROADWAY ALIGNMENT, ROADWAY GRADE, ROADWAY SURFACE TYPE, or ROADWAY SURFACE CONDITIONS equals 0, 00 for this vehicle, | all must equal 0, 00, and SPEED LIMIT must equal 00 for this vehicle. |
| A470            | WORK ZONE equals 0, and TRAFFICWAY DESCRIPTION equals 1-3, 5,                                                                                                            | TOTAL LANES IN ROADWAY should not equal 1.                            |
| A481            | TRAFFICWAY DESCRIPTION equals 6, and RELATION TO JUNCTION (b) does not equal 02, 03,                                                                                     | TOTAL LANES IN ROADWAY should equal 1, 2, 8, 9.                       |
| A482            | TRAFFICWAY DESCRIPTION equals 4 or 6,                                                                                                                                    | TOTAL LANES IN ROADWAY should not equal 5-7.                          |
| A491            | TRAFFICWAY DESCRIPTION equals 2 or 3,                                                                                                                                    | TOTAL LANES IN ROADWAY should not equal 7.                            |
| A496            | <b>RELATION TO JUNCTION (b) does not equal 02 or 03, and</b> TRAFFICWAY DESCRIPTION equals 5,                                                                            | TOTAL LANES IN ROADWAY should not equal 1, 2, <b>4</b> , or 6.        |
| PC50            | PRE-IMPACT LOCATION equals 2,                                                                                                                                            | TOTAL LANES IN ROADWAY should not equal 1.                            |

**Consistency Check (CRSS Only) [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                                                                                                                        | <b>THEN</b>                                                                                             |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| A3G0            | INTERSTATE HIGHWAY equals 1, and RELATION TO JUNCTION (a) equals 1, and RELATION TO JUNCTION (b) is not equal to 03 or 05 or 20, | TOTAL LANES IN ROADWAY should not equal 1 for at least one vehicle involved in the first harmful event. |



**Consistency Checks (FARS Only) [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                                                                                                                                       | <b>THEN</b>                                                                                     |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| A250            | LAND USE AND FUNCTIONAL SYSTEM (b) equals 01-03, and RELATION TO JUNCTION (a) equals 1, and RELATION TO JUNCTION (b) does not equal 03, 05, 20, | TOTAL LANES IN ROADWAY should not equal 1 for the vehicles involved in the FIRST HARMFUL EVENT. |
| A310            | ROUTE SIGNING equals 1, and RELATION TO JUNCTION (a) equals 0,                                                                                  | TOTAL LANES IN ROADWAY should not equal 1 for any vehicle.                                      |
| A500            | TOTAL LANES IN ROADWAY equals 3-7,                                                                                                              | ROADWAY SURFACE TYPE should not equal 4, 5, 7.                                                  |

## PC7 - Speed Limit

**FORMAT:** 2 numeric

**SAS NAME:** Vehicle.VSPD\_LIM

### ELEMENT VALUES:

| Codes | Attributes                                                           |
|-------|----------------------------------------------------------------------|
| 00    | <a href="#">No Statutory Limit/Non-Trafficway or Driveway Access</a> |
| 05-95 | Actual Speed Limit (in 5 mph increments)                             |
| 98    | <a href="#">Not Reported</a>                                         |
| 99    | <a href="#">Reported as Unknown</a>                                  |

**Definition:** This element identifies the value indicated in the case material that best represents the speed limit just prior to this vehicle's [CRITICAL PRECRASH EVENT](#).

**Remarks:** For vehicles departing the trafficway prior to their [CRITICAL PRECRASH EVENT](#), the trafficway selected for classification is the one the vehicle departed. If this vehicle is in a junction just prior to its [CRITICAL PRECRASH EVENT](#), the roadway selected for classification is the one it is on before entering the junction.

**Note:** Refer to the highway speed limit that is operational at the time and place of the crash whether physically displayed or not. Try not to confuse advisory signs on entrance/exit ramps or near intersections with the actual legal maximum speed limit. Disregard advisory or other speed signs since they do not indicate the legal speed limit. If a State has a statute that uniformly reduces the maximum allowable speed limit within or near a construction zone, then code the indicated reduced speed limit, if known.

Acceptable speed limits are in 5 mph increments.

**00 (No Statutory Limit/Non-Trafficway or Driveway Access)** is used when there is no posted speed limit and no law that governs the maximum speed you can drive (dirt roads, private roads open to the public). Also use this attribute in cases when this vehicle is entering a trafficway but was not on a trafficway prior to its [CRITICAL PRECRASH EVENT](#) or when the vehicle was in a driveway access prior to its precrash event.

When coding SPEED LIMIT for roadways with two different speed limits (for north and south-bound lanes), use the speed limit for the direction of travel where the [CRITICAL PRECRASH EVENT](#) begins.

When a roadway has a different speed limit for different types of vehicles, code the SPEED LIMIT that is applicable to passenger cars.

**Example:**

A rural Interstate highway has a speed limit of 65 mph for passenger cars, but the same road has a 55 mph speed limit for heavy trucks/buses.

- **Circumstance 1:** A single-vehicle (passenger car) crash. Speed Limit = 65 mph
- **Circumstance 2:** A single-vehicle (heavy truck/bus) crash. Speed Limit = 65 mph
- **Circumstance 3:** A two-vehicle crash, (passenger car and heavy truck/bus) crash. Speed Limit = 65 mph

**Logic:**

Our statisticians feel that it would be more representative to code the SPEED LIMIT of the majority of the traffic, namely the passenger car. In addition, they feel that by identifying the car speed limit of 65 mph, they can then determine the truck speed limit by reviewing the State's speed limit law. (The reverse is not necessarily true.)

**98 (Not Reported)** Check to see if [99 \(Reported as Unknown\)](#) is more appropriate for the situation.

If a State's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported.**"

Code **98 (Not Reported)** in these two situations:

1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

**99 (Reported as Unknown)** is used when police indicate unknown.

**Values less than 15 mph are unlikely occurrences and will raise an error flag.**

**FARS SPECIAL INSTRUCTION:**

Accurate coding of SPEED LIMIT is extremely important. Do not rely solely on the police crash report . Check with the State Highway Department as well.

When coding SPEED LIMIT on On/Off Ramps (i.e., when the [CRITICAL PRECRASH EVENT](#) occurs on the ramp), consider the following.

- A. When a ramp has a posted Speed Limit - a regulatory (black on white) sign, not an advisory (black on yellow) one - the posted speed should be coded.
- B. When there is an advisory speed limit or no sign at all, you should:

1. Check with your State Highway Department to see if there is an implicit speed limit for all unmarked ramps. If there is, code speed limit.
2. If there is not, code the speed limit of the controlled access highway.

**Consistency Checks [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                | <b>THEN</b>                                                           |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| A292            | any TRAFFICWAY DESCRIPTION, TOTAL LANES IN ROADWAY, ROADWAY ALIGNMENT, ROADWAY GRADE, ROADWAY SURFACE TYPE, or ROADWAY SURFACE CONDITIONS equals 0, 00 for this vehicle, | all must equal 0, 00, and SPEED LIMIT must equal 00 for this vehicle. |
| A492            | TRAFFICWAY DESCRIPTION equals 2, 3, 5, 6,                                                                                                                                | SPEED LIMIT must not equal 00.                                        |
| A493            | TRAFFICWAY DESCRIPTION equals 2, 3, 5,                                                                                                                                   | SPEED LIMIT should be greater than 15.                                |
| A521            | any SEQUENCE OF EVENTS equals 46,                                                                                                                                        | SPEED LIMIT should equal 05-55, 98, or 99 for this vehicle.           |

**Consistency Checks (CRSS Only) [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                                                                                                                        | <b>THEN</b>                                                                                      |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| A3J0            | INTERSTATE HIGHWAY equals 1, and RELATION TO JUNCTION (a) equals 1, and RELATION TO JUNCTION (b) is not equal to 03 or 05 or 20, | SPEED LIMIT should not equal 01-40 for at least one vehicle involved in the FIRST HARMFUL EVENT. |
| A965            | PSU equals MA, VT, NY, NJ, OR,                                                                                                   | maximum SPEED LIMIT (not including 98 or 99) should equal 65.                                    |
| A970            | PSU equals AL, CA, FL, GA, IA, IL, KY, MD, MI, MN, NC, OH, PA, SC, TN, VA, WA, WI                                                | maximum SPEED LIMIT (not including 98 or 99) should equal 70.                                    |
| A975            | PSU equals AZ, CO, LA, ME, OK, UT,                                                                                               | maximum SPEED LIMIT (not including 98 or 99) should equal 75.                                    |
| A980            | PSU equals SD,                                                                                                                   | Maximum SPEED LIMIT (not including 98 or 99) should equal 80.                                    |
| A985            | PSU equals TX,                                                                                                                   | then maximum SPEED LIMIT (not including 98 or 99) should equal 85.                               |

**Consistency Checks (FARS Only) ([See Section 400](#)):**

| <b>Error ID</b> | <b>IF</b>                                                                                                           | <b>THEN</b>                                                                                                                        |
|-----------------|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| 1T0P            | SPEED LIMIT for every vehicle is greater than 55, and not equal to 98 or 99,                                        | LAND USE AND FUNCTIONAL SYSTEM (a) should not equal 2 or 6, and LAND USE AND FUNCTIONAL SYSTEM (b) should not equal 06, 07, or 96. |
| A220            | LAND USE AND FUNCTIONAL SYSTEM (b) equals 01, 02, and RELATION TO JUNCTION (a) equals 0,                            | SPEED LIMIT should not equal 05-40 for any vehicle.                                                                                |
| A320            | ROUTE SIGNING equals 1, and RELATION TO JUNCTION (a) equals 0,                                                      | SPEED LIMIT should not equal 05-40 for any vehicle.                                                                                |
| A700            | SPEED LIMIT is greater than 65 for every vehicle and STATE NUMBER does not equal 48,                                | ROUTE SIGNING should equal 1-4.                                                                                                    |
| A900            | SPEED LIMIT equals 60 <b>or</b> 65 for every vehicle and STATE NUMBER does not equal <b>20 or</b> 48,               | LAND USE AND FUNCTIONAL SYSTEM (b) should not equal 04-07 or 96.                                                                   |
| A940            | STATE NUMBER equals 11,                                                                                             | maximum SPEED LIMIT (not including 98 or 99) should equal 55.                                                                      |
| A945            | STATE NUMBER equals 15,                                                                                             | maximum SPEED LIMIT (not including 98 or 99) should equal 60.                                                                      |
| A950            | STATE NUMBER equals 02, 09, 10, 25, 34, 36, 41, 43, 44, 50,                                                         | maximum SPEED LIMIT (not including 98 or 99) should equal 65.                                                                      |
| A955            | STATE NUMBER equals 01, 05, 06, 12, 13, 17, 18, 19, 21, 24, 26, 27, 28, 29, 33, 37, 39, 42, 45, 47, 51, 53, 54, 55, | maximum SPEED LIMIT (not including 98 or 99) should equal 70.                                                                      |
| A960            | STATE NUMBER equals 04, 08, 20, 22, 23, 31, 35, <b>or</b> 38,                                                       | maximum SPEED LIMIT (not including 98 or 99) should equal 75.                                                                      |
| A961            | STATE NUMBER equals 16, 30, 32, <b>40</b> , 46, 49, 56,                                                             | maximum SPEED LIMIT (not including 98 or 99) should equal 80.                                                                      |
| A962            | STATE NUMBER equals 48,                                                                                             | maximum SPEED LIMIT (not including 98 or 99) should equal 85.                                                                      |

## PC8 - Roadway Alignment

**FORMAT:** 1 numeric

**SAS NAME:** Vehicle.VALIGN

**ELEMENT VALUES:**

| Codes | Attributes                                        |
|-------|---------------------------------------------------|
| 0     | <a href="#">Non-Trafficway or Driveway Access</a> |
| 1     | <a href="#">Straight</a>                          |
| 2     | <a href="#">Curve - Right</a>                     |
| 3     | <a href="#">Curve - Left</a>                      |
| 4     | <a href="#">Curve - Unknown Direction</a>         |
| 8     | <a href="#">Not Reported</a>                      |
| 9     | <a href="#">Reported as Unknown</a>               |

**Definition:** This element identifies the value indicated in the case material that best represents the roadway alignment prior to this vehicle's [CRITICAL PRECRASH EVENT](#).

**Remarks:** For vehicles departing the trafficway prior to their [CRITICAL PRECRASH EVENT](#), the **roadway** selected for classification is the one the vehicle departed. For crashes occurring in a channel, consider the ROADWAY ALIGNMENT of the channel itself.

This data element is coded in accordance with the precrash protocols outlined in the [PRECRASH DATA OVERVIEW](#) section of the Coding Manual. In the precrash data elements that record the characteristics of the trafficway, the value coded should be most representative of the driver's critical precrash environment. For resolving ambiguities, the police crash report information is prioritized as follows:

1. The **Narrative** is used if it describes roadway alignment prior to the vehicle's critical precrash event.
2. The **Diagram** is used if it shows the roadway alignment prior to the vehicle's critical precrash event.
3. If the roadway alignment prior to the vehicle's critical precrash event is not described in the Narrative or shown in the Diagram, use the **check-box** information.
4. If the check-box does not exist, is not filled out, or is recorded at the crash level and does not apply to this vehicle's environment, then code [8 \(Not Reported\)](#).

**0 (Non-Trafficway or Driveway Access)** is used when this vehicle is entering a trafficway but was not on a trafficway prior to its [CRITICAL PRECRASH EVENT](#) or when the vehicle was in a driveway access prior to its CRITICAL PRECRASH EVENT.

**1 (Straight)** is selected if the case material indicate this vehicle's roadway is straight.

**2 (Curve - Right)** or **3 (Curve - Left)** is selected if the case material indicate this vehicle's roadway is curved or there is any curvature discernable on the diagram.

**4 (Curve - Unknown Direction)** is selected if the case material indicate a curve, but no curve direction (left/right) is indicated.

**8 (Not Reported)** Check to see if [9 \(Reported as Unknown\)](#) is more appropriate for the situation.

If a State's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks is NOT considered "**Not Reported**."

Code **8 (Not Reported)** in these two situations:

1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

**9 (Reported as Unknown)** is used when police indicate unknown.

**Consistency Checks** [\(See Section 400\)](#):

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                | <b>THEN</b>                                                                                                                                                                      |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A292            | any TRAFFICWAY DESCRIPTION, TOTAL LANES IN ROADWAY, ROADWAY ALIGNMENT, ROADWAY GRADE, ROADWAY SURFACE TYPE, or ROADWAY SURFACE CONDITIONS equals 0, 00 for this vehicle, | all must equal 0, 00, and SPEED LIMIT must equal 00 for this vehicle.                                                                                                            |
| A4D0            | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 14,                                                                                                   | ROADWAY ALIGNMENT must equal 2-4.                                                                                                                                                |
| A4D1            | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 01,                                                                                                   | ROADWAY ALIGNMENT should not equal 2-4.                                                                                                                                          |
| V539            | <b>CRASH TYPE equals 50-67,</b>                                                                                                                                          | <b>ROADWAY ALIGNMENT should not equal 2 for both vehicles involved in the FIRST HARMFUL EVENT, and should not equal 3 for both vehicles involved in the FIRST HARMFUL EVENT.</b> |

## PC9 - Roadway Grade

**FORMAT:** 1 numeric

**SAS NAME:** Vehicle.VPROFILE

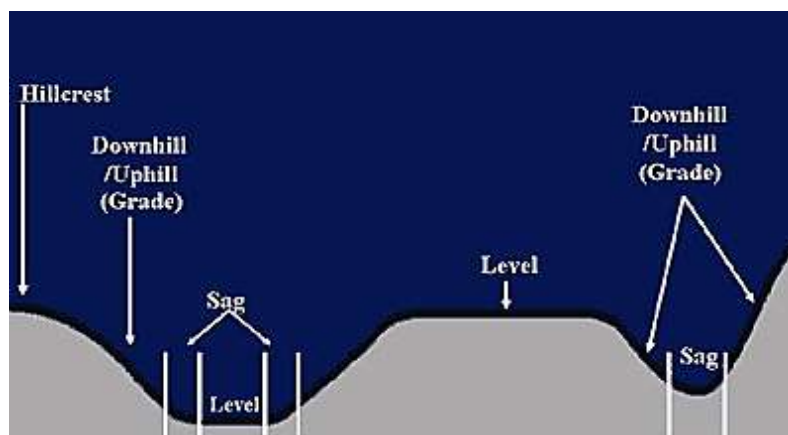
**ELEMENT VALUES:**

| Codes | Attributes                                        |
|-------|---------------------------------------------------|
| 0     | <a href="#">Non-Trafficway or Driveway Access</a> |
| 1     | Level                                             |
| 3     | <a href="#">Hillcrest</a>                         |
| 5     | Uphill                                            |
| 6     | Downhill                                          |
| 2     | <a href="#">Grade, Unknown Slope</a>              |
| 4     | <a href="#">Sag (Bottom)</a>                      |
| 8     | <a href="#">Not Reported</a>                      |
| 9     | <a href="#">Reported as Unknown</a>               |

**Definition:** This element identifies the value indicated in the case material that best represents the roadway grade prior to this vehicle's [CRITICAL PRECRASH EVENT](#).

**Remarks:** For vehicles departing the trafficway prior to their [CRITICAL PRECRASH EVENT](#), the trafficway selected for classification is the one the vehicle departed. If this vehicle is in a junction just prior to its CRITICAL PRECRASH EVENT, the roadway selected for classification is the one it is on before entering the junction. For crashes occurring in a channel, consider the ROADWAY GRADE of the channel itself.

*Figure 25: Diagram of Roadway Grades*



**0 (Non-Trafficway or Driveway Access)** is used when this vehicle is entering a trafficway but was not on a trafficway prior to its [CRITICAL PRECRASH EVENT](#) or when the vehicle was in a driveway access prior to its CRITICAL PRECRASH EVENT.

**3 (Hillcrest)** refers to the area of transition between an uphill and a downhill grade.



**2 (Grade, Unknown Slope)** is used if the case material indicate a grade, but uphill/downhill is not indicated.

**4 (Sag [Bottom])** is a designed transition feature between a change of grade at the bottom of a hill. It is not a dip, which is a flaw.

A dip on the road is not the same as a sag. A sag is a design feature whereas a dip is a flaw. The minimum length of a sag is 100 feet.

**8 (Not Reported)** *Check to see if [9 \(Reported as Unknown\)](#) is more appropriate for the situation.*

If a State's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported.**"

Code **8 (Not Reported)** in these two situations:

1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

**9 (Reported as Unknown)** is used when police indicate unknown.

**Consistency Checks** [\(See Section 400\)](#):

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                | <b>THEN</b>                                                           |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| 1Z1P            | any SEQUENCE OF EVENTS equals 66,                                                                                                                                        | ROADWAY GRADE should equal 6 for this vehicle.                        |
| A292            | any TRAFFICWAY DESCRIPTION, TOTAL LANES IN ROADWAY, ROADWAY ALIGNMENT, ROADWAY GRADE, ROADWAY SURFACE TYPE, or ROADWAY SURFACE CONDITIONS equals 0, 00 for this vehicle, | all must equal 0, 00, and SPEED LIMIT must equal 00 for this vehicle. |
| A494            | TRAFFICWAY DESCRIPTION equals 6,                                                                                                                                         | ROADWAY GRADE should not equal 3, 4.                                  |

## PC10 - Roadway Surface Type - FARS Only

**FORMAT:** 1 numeric

**SAS NAME:** Vehicle.VPAVETYP

**ELEMENT VALUES:**

| Codes | Attributes                                             |
|-------|--------------------------------------------------------|
| 0     | <a href="#">Non-Trafficway Area or Driveway Access</a> |
| 1     | Concrete                                               |
| 2     | Blacktop, Bituminous, or Asphalt                       |
| 3     | Brick or Block                                         |
| 4     | Slag, Gravel, or Stone                                 |
| 5     | Dirt                                                   |
| 7     | Other                                                  |
| 8     | <a href="#">Not Reported</a>                           |
| 9     | Reported as Unknown                                    |

**Definition:** This element identifies the value indicated in the case material that best represents the roadway surface type prior to this vehicle's [CRITICAL PRECRASH EVENT](#).

**Remarks:** For vehicles departing the trafficway prior to their [CRITICAL PRECRASH EVENT](#), the trafficway selected for classification is the one the vehicle departed. If this vehicle is in a junction just prior to its CRITICAL PRECRASH EVENT, the roadway selected for classification is the one it is on before entering the junction.

Should be obtained from the crash report or the State Highway Department.

If the police crash report narrative states more than one type, choose the type with the lowest number. For example, if the PCR indicates both dirt and gravel are present, then use code **4 (Slag, Gravel, or Stone)** because it is a lower number than **5 (Dirt)**. If the PCR has a combination code selected such as "Dirt/Gravel" without further explanation, and you cannot determine if the officer is indicating dirt or gravel, or both dirt and gravel, then use code **8 (Not Reported)**.

**0 (Non-Trafficway or Driveway Access)** is used when this vehicle is entering a trafficway but was not on a trafficway prior to its [CRITICAL PRECRASH EVENT](#) or when the vehicle was in a driveway access prior to its CRITICAL PRECRASH EVENT.

If a police crash report data element is coded with the attribute "Other" but the officer does not specify what this refers to:

1. Code **7 (Other)** if the police crash report attribute choices can be matched to or include all the attributes in FARS/CRSS.
2. Code **8 (Not Reported)** if the police crash report choices cannot be matched to or include all the attributes in FARS/CRSS.

**8 (Not Reported) Check to see if 9 (Reported as Unknown) is more appropriate for the situation.**

If a State's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks is NOT considered "**Not Reported.**"

Code **8 (Not Reported)** in these two situations:

1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

**Consistency Checks [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                | <b>THEN</b>                                                               |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| A160            | LAND USE AND FUNCTIONAL SYSTEM (b) equals 01-06,                                                                                                                         | ROADWAY SURFACE TYPE should equal 1, 2, 8, or 9 for at least one vehicle. |
| A170            | ROADWAY SURFACE TYPE equals 3-5 for every vehicle,                                                                                                                       | LAND USE AND FUNCTIONAL SYSTEM (b) should not equal 01-06.                |
| A292            | any TRAFFICWAY DESCRIPTION, TOTAL LANES IN ROADWAY, ROADWAY ALIGNMENT, ROADWAY GRADE, ROADWAY SURFACE TYPE, or ROADWAY SURFACE CONDITIONS equals 0, 00 for this vehicle, | all must equal 0, 00, and SPEED LIMIT must equal 00 for this vehicle.     |
| A330            | ROUTE SIGNING equals 1, 2,                                                                                                                                               | ROADWAY SURFACE TYPE should equal 1, 2, 8 for at least one vehicle.       |
| A490            | TRAFFICWAY DESCRIPTION equals 2, 3, 5,                                                                                                                                   | ROADWAY SURFACE TYPE should not equal 4, 5, 7.                            |
| A500            | TOTAL LANES IN ROADWAY equals 3-7,                                                                                                                                       | ROADWAY SURFACE TYPE should not equal 4, 5, 7.                            |

## PC11 - Roadway Surface Conditions

**FORMAT:** 2 numeric

**SAS NAME:** Vehicle.VSURCOND

**ELEMENT VALUES:**

| Codes | Attributes                                        |
|-------|---------------------------------------------------|
| 00    | <a href="#">Non-Trafficway or Driveway Access</a> |
| 01    | <a href="#">Dry</a>                               |
| 02    | <a href="#">Wet</a>                               |
| 03    | <a href="#">Snow</a>                              |
| 10    | <a href="#">Slush</a>                             |
| 04    | <a href="#">Ice/Frost</a>                         |
| 06    | <a href="#">Water (Standing, Moving)</a>          |
| 05    | <a href="#">Sand</a>                              |
| 11    | <a href="#">Mud, Dirt, Gravel</a>                 |
| 07    | <a href="#">Oil</a>                               |
| 08    | <a href="#">Other</a>                             |
| 98    | <a href="#">Not Reported</a>                      |
| 99    | <a href="#">Reported as Unknown</a>               |

**Definition:** This element identifies the value indicated in the case material that best represents the roadway surface condition prior to this vehicle's [CRITICAL PRECRASH EVENT](#).

**Remarks:** For vehicles departing the trafficway prior to their [CRITICAL PRECRASH EVENT](#), the trafficway selected for classification is the one the vehicle departed. If this vehicle is in a junction just prior to its CRITICAL PRECRASH EVENT, the roadway selected for classification is the one it is on before entering the junction. These conditions may have been present but did not necessarily contribute to the crash.

If more than one surface condition is indicated for this vehicle (e.g., with a combination code such as “slush/Ice”), then select the condition, if specified in case material, that would have most affected the vehicle's traction. If there is not enough information available to distinguish if one or both of the surface conditions were applicable during the time of the crash, use [98 \(Not Reported\)](#).

**00 (Non-Trafficway or Driveway Access)** is used when this vehicle is entering a trafficway but was not on a trafficway prior to its EVENT or when the vehicle was in a driveway access prior to its CRITICAL PRECRASH EVENT.

A road made of sand or dirt would be coded **01 (Dry)** under normal conditions, not **05 (Sand)**, or **11 (Mud, Dirt, Gravel)**.

**02 (Wet)** describes a roadway surface that is covered with water from rain or melted snow.

**03 (Snow)** describes a roadway surface that is covered with snow.

**10 (Slush)** describes a roadway surface that is covered with melting snow.

**04 (Ice/Frost)** includes a roadway covered with ice from freezing rain or water runoff that has pooled on the roadway and turned to ice.

**06 (Water [Standing, Moving])** describes a roadway surface that is covered with water and typically localized.

**05 (Sand)** includes sand on the roadway as a result of sand blown by wind or sand discharged on the roadway by highway trucks.

**11 (Mud, Dirt, Gravel)** indicates these substances present on the surface of the roadway at the crash location, not the surface type of the roadway by design.

**07 (Oil)** includes fuel spilled on the roadway.

**08 (Other)** is used for roadway surface conditions not described above.

If a police crash report data element is coded with the attribute “Other,” but the officer does not specify what this refers to:

1. Code **08 (Other)** if the police crash report attribute choices can be matched to or include all the attributes in FARS/CRSS.
2. Code **98 (Not Reported)** if the police crash report choices cannot be matched to or include all the attributes in FARS/CRSS.

**98 (Not Reported)** *Check to see if [99 \(Reported as Unknown\)](#) is more appropriate for the situation.*

If a State’s crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered “**Not Reported.**”

Code **98 (Not Reported)** in these two situations:

1. No field or coding block exists on the State’s crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State’s crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State’s crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

**99 (Reported as Unknown)** is used when police indicate unknown.

**Consistency Checks [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                | <b>THEN</b>                                                                 |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| 1A1P            | RELATED FACTORS-CRASH LEVEL equals 005,                                                                                                                                  | ROADWAY SURFACE CONDITIONS must equal 06 for at least one vehicle.          |
| A040            | CRASH MONTH equals 05-09,                                                                                                                                                | ROADWAY SURFACE CONDITIONS should not equal 03, 04, 10.                     |
| A1A0            | ROADWAY SURFACE CONDITIONS equals 01 for a vehicle involved in the FIRST HARMFUL EVENT,                                                                                  | ATMOSPHERIC CONDITIONS should not equal 02-04, 11, 12.                      |
| A1C0            | ROADWAY SURFACE CONDITIONS equals 01,                                                                                                                                    | DRIVER'S VISION OBSCURED BY should not equal 08.                            |
| A292            | any TRAFFICWAY DESCRIPTION, TOTAL LANES IN ROADWAY, ROADWAY ALIGNMENT, ROADWAY GRADE, ROADWAY SURFACE TYPE, or ROADWAY SURFACE CONDITIONS equals 0, 00 for this vehicle, | all must equal 0, 00, and SPEED LIMIT must equal 00 for this vehicle.       |
| A510            | any ATMOSPHERIC CONDITIONS equals 02-04, 11, 12,                                                                                                                         | ROADWAY SURFACE CONDITIONS should not equal 01, 07, 08, 99 for any vehicle. |

## PC12 - Traffic Control Device

**FORMAT:** 2 numeric

**SAS NAME:** Vehicle.VTRAFCON

**ELEMENT VALUES:**

| Codes | Attributes                  |
|-------|-----------------------------|
| 00    | <a href="#">No Controls</a> |

### Traffic Signals

| Codes | Attributes                                                                                    |
|-------|-----------------------------------------------------------------------------------------------|
| 01    | <a href="#">Traffic Control Signal (on colors) without Pedestrian Signal</a>                  |
| 02    | <a href="#">Traffic Control Signal (on colors) with Pedestrian Signal</a>                     |
| 03    | <a href="#">Traffic Control Signal (on colors) not known whether or not Pedestrian Signal</a> |
| 07    | <a href="#">Lane Use Control Signal</a>                                                       |
| 08    | <a href="#">Other Highway Traffic Signal</a>                                                  |
| 09    | <a href="#">Unknown Highway Traffic Signal</a>                                                |
| 04    | <a href="#">Flashing Traffic Control Signal</a>                                               |

### Regulatory Signs

| Codes | Attributes                              |
|-------|-----------------------------------------|
| 20    | <a href="#">Stop Sign</a>               |
| 21    | <a href="#">Yield Sign</a>              |
| 28    | <a href="#">Other Regulatory Sign</a>   |
| 29    | <a href="#">Unknown Regulatory Sign</a> |
| 23    | <a href="#">School Zone Sign/Device</a> |

### Other Signs and Signals

| Codes | Attributes                              |
|-------|-----------------------------------------|
| 40    | <a href="#">Warning Sign</a>            |
| 65    | <a href="#">Railway Crossing Device</a> |
| 50    | <a href="#">Person</a>                  |
| 98    | <a href="#">Other</a>                   |

### Not Reported and Unknown

| Codes | Attributes                          |
|-------|-------------------------------------|
| 97    | <a href="#">Not Reported</a>        |
| 99    | <a href="#">Reported as Unknown</a> |

Definition: This element identifies the sign or signal indicated in the case material that best describes the traffic controls in the vehicle's environment just prior to this vehicle's [CRITICAL PRECRASH EVENT](#).

Remarks: The roadway used for coding this element is the one this vehicle departed if it is off the roadway just prior to its [CRITICAL PRECRASH EVENT](#). If this vehicle is in a junction just prior to its CRITICAL PRECRASH EVENT, this element is coded based on the roadway this vehicle was on before entering the junction.

Code the attribute indicated in the case material if it directly matches. Devices known to be missing should be coded as the type of device and under DEVICE FUNCTIONING coded as [1 \(Device Not Functioning\)](#).

Code this element whether the device was functioning or not. If more than one device is present, code the highest device (lowest number on list) most related to the crash.

There are *three* exceptions:

1. One exception is [50 \(Person\)](#) which includes a law enforcement officer, crossing guard, flagman, etc.  
**50 (Person)** takes precedence over the entire list.
2. The *second* exception is a [28 \(Other Regulatory Sign\)](#). You may have a Regulatory Speed Limit Sign along with another TRAFFIC CONTROL DEVICE. *For example, a Warning Sign for a dangerous condition in which the Warning Sign is more relevant in the crash. In this case, the [40 \(Warning Sign\)](#) is more appropriate to code.*
3. *The third exception is [65 \(Railway Crossing Device\)](#). The various railway crossing devices take precedence over [40 \(Warning Sign\)](#) when both “flashing lights on an approaching train” and a railway crossing device are present.*

#### MUTCD Notes:

- Traffic calming devices:
  - Although some highway design features, such as curbs, median barriers, guardrails, speed humps or tables, and textured pavement, have a significant impact on traffic operations and safety, they are not considered to be traffic control devices and provisions regarding their design and use are generally not included.
- Pavement markings:
  - While pavement markings are considered Traffic Control Devices in MUTCD, this element should only be used to identify Signs and Signals.



**00 (No Controls)** is used if, at the time of the crash, there was no intent to control (regulate or warn) vehicle traffic. Use this attribute if statutory controls apply (e.g., State law requires that when two vehicles meet at an uncontrolled intersection, the one on the right has the right-of-way).

When a traffic control is deactivated (e.g., traffic signal that emits no signals) during certain times of the day and was deactivated at the time of the crash, code **00 (No Controls)**. A traffic control that has just been installed and not yet activated is also coded **00 (No Controls)**.

However, a traffic control that is out (e.g., due to a power failure) and was reported as such in the case material, is coded, unless a temporary control (e.g., stop sign, police officer, etc.) has been inserted, in which case the temporary control should be coded. Devices known to be missing should be coded as the type of device and under DEVICE FUNCTIONING coded as [1 \(Device Not Functioning\)](#).

### ***Traffic Signals***

**01 (Traffic Control Signal [on colors] without Pedestrian Signal)** refers to any highway traffic signal by which traffic is alternatively directed to stop and permitted to proceed, using the colors of red, yellow, and green. This traffic control signal does not have a pedestrian control signal. The source of actuation is of no concern.

**02 (Traffic Control Signal [on colors] with Pedestrian Signal)** refers to any highway traffic signal by which traffic is alternatively directed to stop and permitted to proceed, using the colors of red, yellow, and green. This traffic control signal does have a pedestrian control signal. The source of actuation is of no concern.

**03 (Traffic Control Signal [on colors] not known whether or not Pedestrian Signal)** any highway traffic signal by which traffic is alternatively directed to stop and permitted to proceed, using the colors of red, yellow, and green. It is unknown if this traffic control signal has a pedestrian control signal. The source of actuation is of no concern.

**07 (Lane Use Control Signal)** is for permanent lane control electronic devices (i.e., overhead lights or “X” indicating lane open or closed for rush hour lanes, bridges, or at tollbooths).

**08 (Other Highway Traffic Signal)** should be coded for traffic signals that are not covered in the preceding attributes. Use this attribute when a School Bus uses flashing lights to control traffic around the bus, regardless of any additional signs the school bus uses. For example, a school bus uses flashing lights and a stop sign on an arm to stop traffic around the school bus. This should only be used if the crash occurred during the time the sign was in effect.

**09 (Unknown Highway Traffic Signal)** is used with the investigating officer reported that the highway traffic signal was unknown at the time of crash.

**04 (Flashing Traffic Control Signal)** usually has a single colored head and flashes. Use this attribute if it is a Highway Traffic Signal that is flashing. This includes a flashing beacon. If a flashing red beacon appears with a stop sign, use this attribute.

Guide signs do not constitute traffic controls.

You may have a Regulatory Speed Limit Sign along with another Traffic Control Device (for example, a Warning Sign for a dangerous condition in which the Warning Sign is more relevant in the crash). In this case, the Warning Sign is more appropriate to code.

Another set of questions arises from the issue of proximity of the device to the crash. Judgment must be applied in these situations. Typical signs that create such problems are:

- Speed limit signs where a party to the crash may be speeding.
- “Do Not Pass” signs where a no passing zone extends for miles but is only marked at the beginning of the zone.
- “Pedestrians Prohibited” signs at entrances to freeways, but a pedestrian crash occurs on the freeway between interchanges.
- And other such signs that may pertain to a significant length of road.

In these instances, if the crash occurs within reasonably close proximity of the sign and the sign type is relevant to the crash, then it may be appropriate to code the sign.

If there is a question as to which type a sign is, consult the [Manual of Uniform Traffic Control Devices \(MUTCD\)](#). Generally, the appropriate code should be used if a party to the crash failed to heed the sign, was in a position to be controlled by the sign, or the sign has some relationship to the crash. For example, for a crash at a four-legged, two-way stop intersection where a driver fails to stop at the stop sign and collides with another vehicle, use the attribute **20 (Stop Sign)**. Conversely, at the same intersection, a driver on an approach not controlled by a stop sign loses control and strikes a utility pole. In this case, **20 (Stop Sign)** would not be appropriate.

Pavement markings are not considered as traffic control devices.

### ***Regulatory Signs***

**20 (Stop Sign)** is a traffic sign used to control vehicular traffic, usually erected at road junctions, which instructs drivers to stop and then to proceed only if the way ahead is clear. This attribute does not include Stop Signs at Rail Grade Crossings. Stop Signs at Rail Grade Crossings are coded [65 \(Railway Crossing Device\)](#).

**21 (Yield Sign)** indicates that a vehicle driver must slow down and prepare to stop if necessary, usually while merging into traffic on another road but needn’t stop if the way is clear. This attribute does not include Yield Signs at Rail Grade Crossings. Yield Signs at Rail Grade Crossings are coded [65 \(Railway Crossing Device\)](#).

### **28 (Other Regulatory Sign)**

Regulatory signs inform highway users of traffic laws or regulations and indicate the applicability of legal requirements that would not otherwise be apparent.

Examples of Regulatory Signs other than [20 \(Stop Sign\)](#) or [21 \(Yield Sign\)](#) are:

- Regulatory Speed Limit signs (black numbers on a white background)
- Turn Prohibition signs
- Do Not Pass
- Do Not Enter signs
- Wrong way
- One-way signs

- Road Closed signs
- Hazardous Cargo signs

**29 (Unknown Regulatory Sign)** is used when the investigating officer reported that the regulatory sign was unknown at the time of crash.

**23 (School Zone Sign/Device)** is used when the [FIRST HARMFUL EVENT](#) occurred during the time the sign was in effect. If the sign was in effect, it does not matter whether children were present. Some **23 (School Zone Signs/Devices)** can be flashing, if this is the case, use this attribute before using [04 \(Flashing Traffic Control Signal\)](#).

### ***Other Signs and Signals***

**40 (Warning Sign)** is used when it is deemed necessary to warn traffic of existing or potentially hazardous conditions on or adjacent to a highway or street.

#### **Examples of Warning Signs:**

- Work/Construction Zone related signs (Lane Shift, Uneven Surface, Workers Ahead, etc.).
- Changes in Horizontal Alignment signs (Hill, Curve, etc.).
- Road Narrows.
- Divided Road/Divided Road Ends.
- Low Clearance.
- Road Surface Condition signs (Bump, Slippery When Wet, etc.).
- Traffic Flow signs (Merge, Two-way Traffic, No Passing Zone, etc.).
- This includes electronic warning signs such as portable signs (i.e., attached to a vehicle), or stationary devices.
- Flashing lights on an approaching train.
- Advisory Speed signs (often black-on-yellow).

**65 (Railway Crossing Device)** is used to control or warn vehicular traffic at a railway crossing.

#### **Examples:**

- Flashing Lights,
- Wigwags,
- Bells,
- Cross Bucks,
- Stop Signs at Rail Grade Crossing.
- Yield Signs at Rail Grade Crossings.

**50 (Person)** is someone (e.g., police officer, crossing guard, flagman, or officially designated person) who is in the act of controlling both vehicular and pedestrian traffic.

**98 (Other)** includes: any other device, which (a) functions as a traffic control device that is not listed as an attribute of this data element, (b) is not excluded by the manual, and (c) is related to the crash. Some examples are barricades, cones, drums, and object markers.

If a police crash report data element is coded with the attribute “Other” but the officer does not specify what this refers to:

1. Code **98 (Other)** if the police crash report attribute choices can be matched to or include all the attributes in FARS/CRSS.
2. Code **97 (Not Reported)** if the police crash report choices cannot be matched to or include all the attributes in FARS/CRSS.

### ***Not Reported and Unknown***

**97 (Not Reported)** Check to see if [00 \(No Controls\)](#) or [99 \(Reported as Unknown\)](#) are more appropriate for the situation.

If a State’s crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks is NOT considered “**Not Reported.**”

Code **97 (Not Reported)** in these two situations:

1. No field or coding block exists on the State’s crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State’s crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State’s crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

**99 (Reported as Unknown)** is used if the investigating officer reported that the traffic control device at the time of crash was not known.

### **Consistency Checks** [\(See Section 400\)](#):

| <b>Error ID</b> | <b>IF</b>                                                     | <b>THEN</b>                                                                                                                                |
|-----------------|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| 4L0P            | any RELATED FACTORS-DRIVER LEVEL equals 039 for this vehicle, | TRAFFIC CONTROL DEVICE should not equal 00 for this vehicle.                                                                               |
| 520F            | FIRST HARMFUL EVENT equals 10,                                | TRAFFIC CONTROL DEVICE must not equal 01-04, 07-09, <b>20, 21, 23, 28, 29, 50, 98</b> for the vehicle involved in the first harmful event. |
| 610P            | TRAFFIC CONTROL DEVICE equals 00,                             | DEVICE FUNCTIONING must equal 0.                                                                                                           |
| 640F            | TRAFFIC CONTROL DEVICE equals 23 for any vehicle,             | RELATED FACTORS-CRASH LEVEL should equal <b>021</b> .                                                                                      |
| 641F            | RELATED FACTORS-CRASH LEVEL equals <b>021</b> ,               | TRAFFIC CONTROL DEVICE should not equal 00 for every vehicle.                                                                              |
| 642F            | TRAFFIC CONTROL DEVICE equals 00 for any vehicle,             | RELATED FACTORS-CRASH LEVEL should not equal <b>021</b> .                                                                                  |

| <b>Error ID</b> | <b>IF</b>                                                                               | <b>THEN</b>                                                                                                               |
|-----------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| 660P            | TRAFFIC CONTROL DEVICE is not equal to 00,                                              | DEVICE FUNCTIONING must not equal 0.                                                                                      |
| 660Q            | TRAFFIC CONTROL DEVICE does not equal 97,                                               | it is unlikely that DEVICE FUNCTIONING equals 8.                                                                          |
| 661P            | TRAFFIC CONTROL DEVICE equals 97,                                                       | DEVICE FUNCTIONING must equal 8.                                                                                          |
| A1B0            | TRAFFIC CONTROL DEVICE equals 20, 21 for a vehicle involved in the FIRST HARMFUL EVENT, | RELATION TO JUNCTION (b) should not equal 01, 18.                                                                         |
| A270            | any VIOLATIONS CHARGED equals 31 <i>or</i> 33,                                          | TRAFFIC CONTROL DEVICE should equal 01-03 <i>for this vehicle</i> .                                                       |
| <b>A271</b>     | <b>VIOLATIONS CHARGED equals 32 or 34,</b>                                              | <b>TRAFFIC CONTROL DEVICE should equal 04, for this vehicle.</b>                                                          |
| <b>A272</b>     | <b>VIOLATIONS CHARGED equals 35,</b>                                                    | <b>TRAFFIC CONTROL DEVICE should equal 01-09, for this vehicle.</b>                                                       |
| <b>A273</b>     | <b>VIOLATIONS CHARGED equals 36,</b>                                                    | <b>TRAFFIC CONTROL DEVICE should equal 65, for this vehicle.</b>                                                          |
| <b>A274</b>     | <b>VIOLATIONS CHARGED equals 37,</b>                                                    | <b>TRAFFIC CONTROL DEVICE should equal 20, for this vehicle.</b>                                                          |
| <b>A275</b>     | <b>VIOLATIONS CHARGED equals 38,</b>                                                    | <b>TRAFFIC CONTROL DEVICE should equal 21, for this vehicle.</b>                                                          |
| <b>A276</b>     | <b>VIOLATIONS CHARGED equals 39,</b>                                                    | <b>TRAFFIC CONTROL DEVICE must not equal 00, for this vehicle.</b>                                                        |
| A293            | WORK ZONE equals 1-3, and RELATION TO JUNCTION (b) equals 02, 03,                       | TRAFFIC CONTROL DEVICE should equal 01-03, 20, 40, 97, or 98 for the vehicle(s) involved in the FIRST HARMFUL EVENT.      |
| A294            | WORK ZONE equals 1-3, and RELATION TO JUNCTION (b) equals 01, 04, 05, 08, 17-19,        | TRAFFIC CONTROL DEVICE should equal 00, 21, 28, 40, 50, 97, or 98 for the vehicle(s) involved in the FIRST HARMFUL EVENT. |
| A440            | RELATION TO JUNCTION (b) equals 06,                                                     | TRAFFIC CONTROL DEVICE should equal 65 for any vehicle involved in the FIRST HARMFUL EVENT.                               |
| A520            | SEQUENCE OF EVENTS equals 10,                                                           | TRAFFIC CONTROL DEVICE should not equal 01-09, 20-29, 40-50, 98.                                                          |
| A770            | FIRST HARMFUL EVENT equals 46,                                                          | TRAFFIC CONTROL DEVICE should equal 01-04, <b>65</b> for the vehicle involved in the FIRST HARMFUL EVENT.                 |
| A780            | FIRST HARMFUL EVENT equals 46,                                                          | TRAFFIC CONTROL DEVICE should not equal 00 for the vehicle involved in the FIRST HARMFUL EVENT.                           |
| A890            | RELATION TO JUNCTION (b) equals 01,                                                     | TRAFFIC CONTROL DEVICE should not equal 01-04, <b>20, or 21</b> for any vehicle involved in the FIRST HARMFUL EVENT.      |
| A891            | RELATION TO JUNCTION (b) equals 98 or 99,                                               | TRAFFIC CONTROL DEVICE should not equal 01, 02, 03, 20, 21, or 65 for a vehicle involved in the FIRST HARMFUL EVENT.      |

| <b>Error ID</b> | <b>IF</b>                                                                            | <b>THEN</b>                                                                          |
|-----------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| PB06            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 730,                         | TRAFFIC CONTROL DEVICE for the striking vehicle must equal 01-03.                    |
| PB09            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLE equals 141, 143, 151-158, 217, or 218, | TRAFFIC CONTROL DEVICE for the striking vehicle must not equal 00.                   |
| PB10            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLE equals 151, 156, 157, 217, or 218,     | TRAFFIC CONTROL DEVICE for the striking vehicle must equal 01-03.                    |
| PB11            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLE equals 154,                            | TRAFFIC CONTROL DEVICE for the striking vehicle must equal 01-04, 08.                |
| PB21            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLE equals 160,                            | TRAFFIC CONTROL DEVICE for the striking vehicle should equal 00.                     |
| <b>PBC2</b>     | <b>PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLE equals 143,</b>                     | <b>TRAFFIC CONTROL DEVICE for the striking vehicle must equal 20, 21, 28, or 29.</b> |

**Consistency Check (CRSS Only) [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                                                                                                                       | <b>THEN</b>                                                                                                                |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| A930            | INTERSTATE HIGHWAY equals 1, and RELATION TO JUNCTION (a) equals 1, and RELATION TO JUNCTION (b) is not equal to 03, 05, or 20, | TRAFFIC CONTROL DEVICE should not equal 01-03, 20, 23, or 65 for at least one vehicle involved in the FIRST HARMFUL EVENT. |

**Consistency Checks (FARS Only) [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                                                                                | <b>THEN</b>                                                            |
|-----------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| 650P            | TRAFFIC CONTROL DEVICE equals 65 for any vehicle,                                        | RAIL GRADE CROSSING IDENTIFIER must not equal 0000000.                 |
| 662P            | TRAFFIC CONTROL DEVICE is not equal to 00 and CRASH TYPE is 14,                          | at least one RELATED FACTORS - DRIVER LEVEL should equal 039.          |
| A210            | LAND USE AND FUNCTIONAL SYSTEM (b) equals 01, 02, and RELATION TO JUNCTION (a) equals 0, | TRAFFIC CONTROL DEVICE should not equal 01-04, 07, 20, 23, 40, 50, 65. |

## PC13 - Device Functioning

**FORMAT:** 1 numeric

**SAS NAME:** Vehicle.VTCONT\_F

**ELEMENT VALUES:**

| Codes | Attributes                                                                                 |
|-------|--------------------------------------------------------------------------------------------|
| 0     | No Controls                                                                                |
| 1     | <a href="#">Device Not Functioning</a>                                                     |
| 2     | <a href="#">Device Functioning - Functioning Improperly</a>                                |
| 4     | <a href="#">Device Not Functioning or Device Functioning Improperly, Specifics Unknown</a> |
| 3     | <a href="#">Device Functioning Properly</a>                                                |
| 8     | <a href="#">Not Reported</a>                                                               |
| 9     | <a href="#">Reported as Unknown</a>                                                        |

**Definition:** This element identifies the functionality of the traffic control device recorded for this vehicle in the element [TRAFFIC CONTROL DEVICE](#).

**Remarks:** This data element is coded with respect to the control selected in the element [TRAFFIC CONTROL DEVICE](#).

**1 (Device Not Functioning)** is used when the device is not functioning at all (e.g., signal out, sign knocked down). Devices known to be missing should be coded here.

**2 (Device Functioning - Functioning Improperly)** is used when the device was functioning to an extent but not as intended (e.g., red signal lamp burned out, sign twisted, or obscured by vegetation).

**4 (Device Not Functioning or Device Functioning Improperly, Specifics Unknown)** is used when the case material indicate the traffic control device was not functioning as designed at the time of the crash, but a differentiation between codes **1 (Device Not Functioning)** and **2 (Device Functioning - Functioning Improperly)** cannot be determined. An example of this may be a contributing circumstance field value such as “Traffic control device inoperative, missing, or obscured” without clarifying information in the case material.

**3 (Device Functioning Properly)** is used when the traffic control device was functioning as designed at the time of the crash. As a default rule, if the device is listed as present, code **3 (Device Functioning Properly)** unless specified otherwise. For example, the police crash report indicates a stop sign is applicable to a vehicle at an intersection crash and there is no mention of it functioning improperly, it is assumed the stop sign was functional.

**8 (Not Reported)** *Check to see if 0 (No Controls) or [9 \(Reported as Unknown\)](#) is more appropriate for the situation.*

If a State’s crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks is NOT considered “**Not Reported.**”

Code **8 (Not Reported)** in these two situations:

1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

**9 (Reported as Unknown)** is used if the investigating officer reported that it was unknown if the traffic control device was functioning at the time of crash.

**Consistency Checks** [\(See Section 400\)](#):

| <b>Error ID</b> | <b>IF</b>                                  | <b>THEN</b>                                      |
|-----------------|--------------------------------------------|--------------------------------------------------|
| 610P            | TRAFFIC CONTROL DEVICE equals 00,          | DEVICE FUNCTIONING must equal 0.                 |
| 660P            | TRAFFIC CONTROL DEVICE is not equal to 00, | DEVICE FUNCTIONING must not equal 0.             |
| 660Q            | TRAFFIC CONTROL DEVICE does not equal 97,  | it is unlikely that DEVICE FUNCTIONING equals 8. |
| 661P            | TRAFFIC CONTROL DEVICE equals 97,          | DEVICE FUNCTIONING must equal 8.                 |



## PC14 - Driver's Vision Obscured By

**FORMAT:** 2 numeric. Select All That Apply.

**SAS NAME:** *Vision.VISION*

**ELEMENT VALUES:**

| Codes | Attributes                                                      |
|-------|-----------------------------------------------------------------|
| 00    | <a href="#">No Obstruction Noted</a>                            |
| 01    | <a href="#">Rain, Snow, Fog, Smoke, Sand, Dust</a>              |
| 02    | <a href="#">Reflected Glare, Bright Sunlight, Headlights</a>    |
| 03    | <a href="#">Curve, Hill, or Other Roadway Design Feature</a>    |
| 04    | <a href="#">Building, Billboard, Other Structure</a>            |
| 05    | <a href="#">Trees, Crops, Vegetation</a>                        |
| 06    | <a href="#">In-Transport Motor Vehicle (including load)</a>     |
| 07    | <a href="#">Not In-Transport Motor Vehicle (parked/working)</a> |
| 08    | <a href="#">Splash or Spray of Passing Vehicle</a>              |
| 09    | <a href="#">Inadequate Defrost or Defog System</a>              |
| 10    | <a href="#">Inadequate Vehicle Lighting System</a>              |
| 11    | <a href="#">Obstruction Interior to the Vehicle</a>             |
| 12    | <a href="#">External Mirrors</a>                                |
| 13    | <a href="#">Broken or Improperly Cleaned Windshield</a>         |
| 14    | <a href="#">Obstructing Angles on Vehicle</a>                   |
| 95    | <a href="#">No Driver Present/Unknown if Driver Present</a>     |
| 97    | <a href="#">Vision Obscured - No Details</a>                    |
| 98    | <a href="#">Other Visual Obstruction</a>                        |
| 99    | <a href="#">Reported as Unknown</a>                             |

**Definition:** This data element records impediments to a driver's visual field that were noted in the case material.

**Remarks:** These "visual obstructions" can appear anywhere in the case material. Examples include a field on the police crash report (e.g., "Contributing Factors"), in the narrative section, in the violations section, or in witness statements. See clarification on the use of information provided by witnesses in section [103. Data Sources](#).

**00 (No Obstruction Noted)** is used when the case material give no indication of a visual obstruction for this driver.

**01 (Rain, Snow, Fog, Smoke, Sand, Dust)** is used when one or more of these conditions exist AND are noted to have obstructed the view of the driver. Do not use this attribute when only the

vehicle windshield is described as “fogged.” (See [09 \(Inadequate Defrost or Defog System\)](#) or [13 \(Broken or Improperly Cleaned Windshield\)](#).)

**02 (Reflected Glare, Bright Sunlight, Headlights)** is used when one or more of these conditions are noted to have obstructed the view of the driver.

**03 (Curve, Hill, or Other Roadway Design Feature)** is used when any of these roadway features or design elements is noted to have obstructed the view of the driver (including embankment, sag, etc.).

**04 (Building, Billboard, Other Structure)** is used when any of these man-made structures are noted to have obstructed the view of the driver (including traffic signs, poles, signals, etc.).

**05 (Trees, Crops, Vegetation)** is used when any of these natural features are noted to have obstructed the view of the driver.

**06 (In-Transport Motor Vehicle [including load])** is used when a vehicle that is in motion or stopped on the roadway is noted to have obstructed the view of the driver. The vehicle may be but does not have to be a contact vehicle in the case.

**07 (Not In-Transport Motor Vehicle [parked, working])** is used when a vehicle that is parked in a designated parking area or space, stopped in an area off the roadway, or is a working motor vehicle is noted to have obstructed the view of the driver. The vehicle may be but does not have to be a contact vehicle in the case.

**08 (Splash or Spray of Passing Vehicle)** is used when this condition is noted to have obstructed the view of the driver. The splash or spray can come from water or mud; however, the use of this attribute does not require it to be raining at the time of the crash.

**09 (Inadequate Defrost or Defog System)** is used when the presence of frost or fog on the windshield was noted as being due to an inadequate system. The case material must state specifically that the system was not operating properly. If the case material states the presence of frost or fog alone on the windshield, you should use [13 \(Broken or Improperly Cleaned Windshield\)](#).

**10 (Inadequate Vehicle Lighting System)** is used when the case material indicate this driver’s vision was impaired because the exterior lighting system (including headlights, fog-lights, etc.) of the driver’s vehicle was deficient in some way. This would include being turned off or not operating properly. This response should not be used to describe inadequate lighting systems of other vehicles (e.g., oncoming motor vehicles) or for inadequate highway lighting.

**11 (Obstruction Interior to the Vehicle)** is used when the case material indicate this driver’s vision was impaired because of a feature in the interior of their vehicle (including head restraint, rear-view mirror, window stickers, sunshades, ornaments, windshield tinting).

**12 (External Mirrors)** is used when the case material indicate that an exterior mirror on this driver’s vehicle created a visual obstruction.

**13 (Broken or Improperly Cleaned Windshield)** is used when this condition is noted to have obstructed the view of the driver. The presence of frost or fog on the windshield would apply. For a “fogged” or “frosted” windshield due to an inadequate or inoperable system see [09 \(Inadequate Defrost or Defog System\)](#).

**14 (Obstructing Angles on Vehicle)** is used when the case material indicate that the size or shape of a driver's own vehicle created a visual obstruction (including trailer, vehicle height, blind spot). Not to be confused with visual obstructions from other vehicles or a vehicle's interior components such as head restraints, sunshades, etc.

**95 (No Driver Present/Unknown if Driver Present)** is used when there is no driver in this vehicle or when it is unknown if there is a driver present in this vehicle at the time of the crash.

**97 (Vision Obscured - No Details)** is used when the case material indicate that a vision impediment exists but does not clearly indicate the nature of the impediment.

**98 (Other Visual Obstruction)** is used when the case material indicate the nature of a vision impediment that cannot be attributed to one of the other attributes above. For example, an unattached trailer left on the road shoulder.

**99 (Reported as Unknown)** is used when the case material specifically indicate unknown.

**Consistency Checks [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                                                             | <b>THEN</b>                                                                                                                                                        |
|-----------------|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1HJF            | DRIVER'S VISION OBSCURED BY equals 95,                                | DRIVER PRESENCE must equal 0 or 9.                                                                                                                                 |
| 1L2P            | any DRIVER'S VISION OBSCURED BY equals 00 or 95 or 99,                | only that one code and no other must be coded for this vehicle.                                                                                                    |
| 1L4P            | any DRIVER'S VISION OBSCURED BY equals 09,                            | at least one CONTRIBUTING CIRCUMSTANCES, MOTOR VEHICLE must equal 97.                                                                                              |
| 1L5P            | any DRIVER'S VISION OBSCURED BY equals 10,                            | at least one CONTRIBUTING CIRCUMSTANCES, MOTOR VEHICLE must equal 07 or 08 or 09.                                                                                  |
| 2H1F            | UNIT TYPE equals 1, and DRIVER PRESENCE equals 0 or 9,                | DRIVER'S VISION OBSCURED BY must equal 95.                                                                                                                         |
| 4X8H            | any NON-MOTORIST CONTRIBUTING CIRCUMSTANCES equals 01,                | DRIVER'S VISION OBSCURED BY must not equal 00, 95, or 99 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST. |
| A1C0            | ROADWAY SURFACE CONDITIONS equals 01,                                 | DRIVER'S VISION OBSCURED BY should not equal 08.                                                                                                                   |
| PB31            | PEDESTRIAN/BIKE TYPING -BICYCLIST CRASH TYPE equals 147, 157, or 357, | at least one DRIVER'S VISION OBSCURED BY must equal 06 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.   |

| <b>Error ID</b> | <b>IF</b>                                                     | <b>THEN</b>                                                                                                                                                                |
|-----------------|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PB32            | PEDESTRIAN/BIKE TYPING -<br>PEDESTRIAN CRASH TYPE equals 742, | at least one DRIVER'S VISION OBSCURED BY must not equal 00 or 95 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST. |
| PB33            | PEDESTRIAN/BIKE TYPING -BICYCLIST<br>CRASH TYPE equals 156,   | DRIVER'S VISION OBSCURED BY for the striking vehicle must not equal 06.                                                                                                    |

## PC15 - Driver Maneuvered to Avoid

**FORMAT:** 2 numeric. Select All That Apply

**SAS NAME:** *Maneuver.MANEUVER*

**ELEMENT VALUES:**

| Codes | Attributes                                                        |
|-------|-------------------------------------------------------------------|
| 00    | <a href="#">Driver Did Not Maneuver to Avoid</a>                  |
| 01    | <a href="#">Object</a>                                            |
| 02    | <a href="#">Poor Road Conditions (Puddle, Ice, Pothole, etc.)</a> |
| 03    | <a href="#">Live Animal</a>                                       |
| 04    | <a href="#">Contact Motor Vehicle (in this Crash)</a>             |
| 05    | <a href="#">Pedestrian, Pedalcyclist, or Other Non-Motorist</a>   |
| 92    | <a href="#">Phantom/Non-Contact Motor Vehicle</a>                 |
| 95    | <a href="#">No Driver Present/Unknown if Driver Present</a>       |
| 98    | <a href="#">Not Reported</a>                                      |
| 99    | <a href="#">Reported as Unknown</a>                               |

**Definition:** This data element identifies the thing(s) the driver attempted to avoid while the vehicle was on the road portion of the trafficway, just prior to the first harmful event for this vehicle.

**Remarks:** The “road” by definition includes the roadway and shoulder/parking lane portions when a shoulder/parking lane is present. The source for this data is the crash report narrative or related crash report form fields as completed by the investigating officer. It is the officer’s assessment. See clarification on the use of information provided by witnesses in section [103. Data Sources](#).

**Use the available crash report fields, narrative, and diagram to code the thing(s) the driver attempted to avoid while the vehicle was on the road portion of the trafficway, just prior to the first harmful event for this vehicle.** Code the thing(s) the driver tried to avoid whether the maneuver was successful or not (i.e., whether the driver was able to avoid the object, poor road condition, animal, vehicle, or non-motorist or not).

**Currently there are no State crash reports having fields, which by themselves, can be applied to code this element. Some State crash reports do have fields containing relevant information to consider such as Driver Contributing Circumstances, Vehicle Maneuver, Roadway Factors, Avoidance Maneuvers, or Environmental Circumstances. However, the data in these fields will rarely provide all the information needed to code DRIVER MANEUVERED TO AVOID.**

**00 (Driver Did Not Maneuver to Avoid)** is used when:

- The officer reports that no avoidance maneuvers were taken by the driver.
- The avoidance maneuver(s) occurred after the first harmful event for the vehicle.
- The avoidance maneuver occurred when the vehicle was not on a roadway, shoulder, or parking lane.

***Lack of definitive avoidance information in the report (absence of information) should not be coded as 00 (Driver Did Not Maneuver to Avoid). See [98 \(Not Reported\)](#) for absence of information situations.***

***Examples of when 00 (Driver Did Not Maneuver to Avoid) CAN be coded:***

- *The crash report narrative says the FHE event for a motor vehicle “stopped in traffic” is a collision with motor vehicle in motion. “Stopped in traffic” during the entire Critical Crash Envelope (CCE) means the driver did not avoid anything prior to the vehicle’s FHE.*
- *The case material indicate the driver did not try to avoid anything on the road prior to the vehicle’s FHE because:*
  - *the driver did not have time to react*
  - *the driver was asleep or unconscious*
  - *the driver did not see or recognize there was anything to avoid*
- *The crash description identifies the driver did not try to avoid anything in the road prior to its FHE. For example, the crash report narrative says “The vehicle drifted off the road because the driver was talking on a cell phone. The driver tried to recover back to the road, lost control, and hit a tree.”*

**01 (Object)** is used when the driver attempted to avoid a non-fixed object such as: an animal carcass, an unattached trailer, a bicycle without a rider, downed tree limbs or power lines, debris from a previous crash, rocks that fall from an adjacent hillside, a load that fell from another vehicle, debris left from a tire blowout, etc.

**02 (Poor Road Conditions [Puddle, Ice, Pothole, etc.])** is used when the driver maneuvered to avoid the location of a road condition. Treat the condition as if it were an object. Do not use this attribute if the driver lost control while traveling on/over the road condition but made no maneuver to avoid it.

**03 (Live Animal)** is used when the driver attempted to avoid a live animal that is stationary or moving. A dead animal carcass is considered debris and coded as [01 \(Object\)](#).

**04 (Contact Motor Vehicle (in this Crash))** is used when the driver attempted to avoid another **contact** motor vehicle in the crash (**receives a vehicle form**). This includes in-transport, parked, or working motor vehicles. A trailer not connected to a motor vehicle would be considered an [01 \(Object\)](#).

**05 (Pedestrian, Pedalcyclist, or Other Non-Motorist)** is used when the driver attempts to avoid a pedestrian, pedalcyclist, or other non-motorist. Other Non-motorist would include people riding on an animal, or in an animal drawn conveyance or on a personal conveyance. A person

killed in a previous crash or an unoccupied pedalcycle or personal conveyance would be considered an [01 \(Object\)](#).

**92 (Phantom/Non-Contact Motor Vehicle)** is used when the driver attempted to avoid another motor vehicle in the crash that was reported as a **non-contact** or phantom vehicle (**does not receive a [vehicle form](#)**). This includes in-transport, parked, or working motor vehicles. A trailer not connected to a motor vehicle would be considered an [01 \(Object\)](#).

**95 (No Driver Present/Unknown if Driver Present)** is used when there is no driver in this vehicle or when it is unknown if there is a driver present in this vehicle at the time of the crash.

**98 (Not Reported)** *Check to see if [00 \(Driver Did Not Maneuver to Avoid\)](#) or [99 \(Reported as Unknown\)](#) are more appropriate for the situation.*

If a State's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks is NOT considered "**Not Reported**."

Code **98 (Not Reported)** in these two situations:

1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

**99 (Reported as Unknown)** is used when the information about a particular vehicle's circumstances are reported as "unknown."

**Consistency Checks** [\(See Section 400\)](#):

| Error ID | IF                                                           | THEN                                                                           |
|----------|--------------------------------------------------------------|--------------------------------------------------------------------------------|
| 3BCP     | CRASH TYPE equals 34, 36, 38, 40, 54, 56, 58, or 60,         | DRIVER MANEUVERED TO AVOID must not equal 00.                                  |
| 41IP     | TRAVEL SPEED is equal to 000,                                | DRIVER MANEUVERED TO AVOID should equal 00 <b>or</b> 95.                       |
| 9C4P     | UNIT TYPE equals 1, and DRIVER PRESENCE equals 0 or 9,       | DRIVER MANEUVERED TO AVOID must only equal 95.                                 |
| 9C5P     | DRIVER MANEUVERED TO AVOID equals 95,                        | DRIVER PRESENCE must equal 0 or 9.                                             |
| AZ6P     | any DRIVER MANEUVERED TO AVOID equals 00,                    | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must not equal 17. |
| AZ7P     | any DRIVER MANEUVERED TO AVOID equals 00 or 95 or 98, or 99, | only that one code and no other must be coded for this vehicle.                |
| AZBP     | any DRIVER MANEUVERED TO AVOID equals 03,                    | CRITICAL EVENT - PRECRASH (EVENT) should equal 87-89.                          |

| <b>Error ID</b> | <b>IF</b>                                                                                                                  | <b>THEN</b>                                                 |
|-----------------|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| AZCP            | any DRIVER MANEUVERED TO AVOID equals 05,                                                                                  | CRITICAL EVENT - PRECRASH (EVENT) should equal 80-85.       |
| AZDQ            | DRIVER MANEUVERED TO AVOID equals 04,                                                                                      | NUMBER OF VEHICLE FORMS SUBMITTED must be greater than 001. |
| AZEP            | any DRIVER MANEUVERED TO AVOID equals 01,                                                                                  | CRITICAL EVENT - PRECRASH (EVENT) should equal 90-92.       |
| B10P            | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) does not equal 17, and ATTEMPTED AVOIDANCE MANEUVER equals 01, | DRIVER MANEUVERED TO AVOID should equal 00.                 |
| V59Q            | ATTEMPTED AVOIDANCE MANEUVER equals 99,                                                                                    | DRIVER MANEUVERED TO AVOID should equal 00, 98, or 99.      |



## PC16 - Driver Distracted By

**FORMAT:** 2 numeric. Select All That Apply.

**SAS NAME:** *Distract.DRDISTRACT*

**ELEMENT VALUES:**

| Codes | Attributes                                                  |
|-------|-------------------------------------------------------------|
| 00    | <a href="#">Not Distracted</a>                              |
| 16    | <a href="#">No Driver Present/Unknown if Driver Present</a> |
| 96    | <a href="#">Not Reported</a>                                |
| 99    | <a href="#">Reported as Unknown if Distracted</a>           |

### Distractions

| Codes | Attributes                                                                     |
|-------|--------------------------------------------------------------------------------|
| 03    | <a href="#">By Other Occupant(s)</a>                                           |
| 04    | <a href="#">By a Moving Object in Vehicle</a>                                  |
| 05    | <a href="#">While Talking or Listening to Mobile Phone</a>                     |
| 06    | <a href="#">While Manipulating Mobile Phone</a>                                |
| 15    | <a href="#">Other Mobile Phone Related</a>                                     |
| 07    | <a href="#">Adjusting Audio or Climate Controls</a>                            |
| 09    | <a href="#">While Using Other Component/Controls Integral to Vehicle</a>       |
| 10    | <a href="#">While Using or Reaching For Device/Object Brought into Vehicle</a> |
| 12    | <a href="#">Distracted by Outside Person, Object, or Event</a>                 |
| 13    | <a href="#">Eating or Drinking</a>                                             |
| 14    | <a href="#">Smoking Related</a>                                                |
| 17    | <a href="#">Distraction/Inattention</a>                                        |
| 18    | <a href="#">Distraction/Careless</a>                                           |
| 19    | <a href="#">Careless/Inattentive</a>                                           |
| 92    | <a href="#">Distraction (Distracted), Details Unknown</a>                      |
| 93    | <a href="#">Inattention (Inattentive), Details Unknown</a>                     |
| 97    | <a href="#">Lost in Thought/Day Dreaming</a>                                   |
| 98    | <a href="#">Other Distraction (Specify:)</a>                                   |

**Definition:** This element identifies the attribute(s) that best describe this driver's attention to driving prior to the driver's realization of an impending critical event or just prior to impact if realization of an impending critical event does not occur. This element reports on the presence of

any distractions that may or may not have contributed to the crash. Distraction from the primary task of driving occurs when drivers divert their attention from the driving task to some other activity. Also, driving while daydreaming or lost in thought is identified as distracted driving by NHTSA. Physical conditions/impairments (fatigue, alcohol, medical condition, etc.) or psychological states (anger, emotional, depressed, etc.) are not identified as distractions by NHTSA.

**NOTE:** *"Presence" is not the same as an activity associated with the person or item. The driver needs to be engaged in some activity associated with the thing that is causing a distraction. Just having a mobile phone, sandwich, passenger, etc. in the vehicle isn't a distraction. The distraction is when the driver's attention is diverted from driving to using the phone, eating the sandwich, turning around to talk to a backseat passenger, etc. It doesn't have to be a contributing factor in the crash, but it does have to be in use, engaged, the person was doing it at the time, etc. for it to have been a distraction.*

**Remarks:** Record the attribute(s) that best describe this driver's attention to driving prior to the driver's realization of an impending critical event or just prior to impact if realization of an impending critical event does not occur. If this driver's vehicle has two critical crash envelopes, record the attribute(s) that best describe the driver's attention prior to the first [CRITICAL PRECRASH EVENT](#) (i.e., prior to realization of the impending danger that the driver successfully avoided). Intoxication, Ill, Blackout, Asleep, or Fatigued are not considered distractions. This information is captured under the data element [CONDITION \(IMPAIRMENT\) AT TIME OF CRASH](#).

DRIVER DISTRACTED BY is a "Select All That Apply" element. If the element values [00 \(Not Distracted\)](#), [16 \(No Driver Present\)](#), [17 \(Distraction/ Inattention\)](#), [18 \(Distraction/Careless\)](#), [19 \(Careless/Inattentive\)](#), [92 \(Distraction \[Distracted\], Details Unknown\)](#), [93 \(Inattention \[Inattentive\], Details Unknown\)](#), [96 \(Not Reported\)](#), or [99 \(Reported as Unknown if Distracted\)](#) are selected, then only that one element value may be used.

### **Witness Statements:**

See clarification on the use of information provided by witnesses in section [103. Data Sources](#).

#### **00 (Not Distracted)**

- When the case material indicate that the individual was completely attentive to driving.
- When the case material does not indicate a distraction in an available field, and not reporting a distraction in that field indicates 00 (Not Distracted).
- For omission of information see 96 (Not Reported) guidance below.

**16 (No Driver Present/Unknown if Driver Present)** is used when there is no driver in this vehicle or when it is unknown if there is a driver present in this vehicle at the time of the crash.

**96 (Not Reported)** Check to see if 00 (Not Distracted) or 99 (Reported as Unknown if Distracted) are more appropriate for the situation.

If a State's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**."

Code **96 (Not Reported)** in these two situations:

1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

**99 (Reported as Unknown if Distracted)** is used when the case material specifically indicate unknown.

***Distractions:***

**03 (By Other Occupant[s])** is used when the driver was distracted by another occupant in this driver's vehicle prior to realization of impending danger. Examples of other occupant distraction include conversing with or looking at another occupant (baby/child in back seat, rowdy teenager, argumentative spouse, etc.).

**04 (By a Moving Object in Vehicle)** is used when the driver was distracted by a moving object in this driver's vehicle prior to realization of impending danger. Examples include a dropped object, a moving pet, insect, or cargo.

**05 (While Talking or Listening to Mobile Phone)** is used when the driver is talking or listening on a mobile phone. This attribute includes talking or listening on a "hands-free" or Bluetooth enabled phone.

**06 (While Manipulating Mobile Phone)** is used when the driver is dialing or text messaging (texting) on a mobile phone. Any manual button/control actuation on the phone qualifies. This includes dialing or text messaging on any wireless e-mail device.

**15 (Other Mobile Phone Related)** is used when the case material indicates the driver is distracted from the driving task due to mobile phone involvement, but none of the specified codes are applicable (reaching for mobile phone, etc.). This attribute is also applied when specific details regarding mobile phone distraction/usage are not provided (*e.g., email, nonspecific mobile phone use*).

**07 (Adjusting Audio or Climate Controls)** is used when someone is distracted from the driving task while adjusting the air conditioner, heater, radio, cassette, using the radio, using the cassette, or CD that are mounted in the vehicle.

**09 (While Using Other Component/Controls Integral to Vehicle)** is used when the driver is distracted while manipulating a control in the vehicle including adjusting headlamps or interior lights, controlling windows (power or manual), manipulating door locks (power or manual),

adjusting side view mirrors (power or manual), adjusting rear view mirror, adjusting seat (power or manual), adjusting steering wheel, adjusting seat belt, on-board navigational devices, etc. (original equipment).

**10 (While Using or Reaching for Device/Object Brought into Vehicle)** is used when the driver is distracted while using or reaching for a device in the vehicle including a radar detector, CDs, razors, music portable CD player, headphones, a navigational device, laptop or tablet PC, etc. This attribute is also used when it cannot be determined if the involved device was OEM, brought into the vehicle, or a function of a mobile phone (i.e., GPS).

If it is unknown if the device or object was brought into the vehicle or was original equipment on this vehicle, default to brought into vehicle and use attribute **10 (While Using or Reaching for Device/Object Brought into Vehicle)**.

**12 (Distracted by Outside Person, Object, or Event)** is used when the driver was distracted by an outside person, object, or event prior to realization of impending danger. Examples include animals on the roadside, a previous crash, or non-traffic related signs (advertisements, electronic billboards, etc.). Do not use this attribute for a person, object, or event that the driver has recognized and for which the driver has taken some action (e.g., avoiding a pedestrian on the roadway).

**13 (Eating or Drinking)** is used when the driver is eating or drinking or involved in an activity related to these actions (picking food from carton placed on passenger seat, reaching to throw out used food wrapper, etc.).

**14 (Smoking Related)** is used when the driver is smoking or involved in an activity related to smoking, such as lighting a cigarette, putting ashes in the ash tray, vaping, etc. Any method of lighting the cigarette would be coded **14 (Smoking Related)**. Chewing tobacco related distractions are coded under **98 (Other Distraction [Specify: ])**.

**17 (Distraction/Inattention)** is used **exclusively** when “Distraction/Inattention” or “Inattention/Distraction” are noted in the case material as one combined attribute and it cannot be determined which DRIVER DISTRACTED BY attribute is intended, **92 (Distraction [Distracted], Details Unknown)** or **93 (Inattention [Inattentive], Details Unknown)**.

**18 (Distraction/Careless)** is used **exclusively** when “Distraction/Careless” or “Careless/Distraction” are noted in the case material as one combined attribute and it cannot be determined which DRIVER DISTRACTED BY attribute applies.

**19 (Careless/Inattentive)** is used **exclusively** when “Careless/Inattentive” or “Inattentive/Careless” are noted in the case material as one combined attribute and it cannot be determined which DRIVER DISTRACTED BY attribute applies.

**92 (Distraction [Distracted], Details Unknown)** is used when “distraction” or “distracted” are noted in the case material, but specific distraction(s) cannot be identified. For non-specific “inattention,” see attribute

**93 (Inattention [Inattentive], Details Unknown)**.

**93 (Inattention [Inattentive], Details Unknown)** is used when “inattention” or “inattentive” are noted in the case material, but it cannot be identified if this refers to a distraction(s).

**97 (Lost in Thought/Day Dreaming)** is used when the driver is not completely attentive to driving because he/she is thinking about items other than the driving task. For non-specific

“distraction,” see [92 \(Distraction \[Distracted\], Details Unknown\)](#). For non-specific “inattention,” see [93 \(Inattention \[Inattentive\], Details Unknown\)](#).

**98 (Other Distraction [Specify:])**\* is used when details regarding this driver’s distraction are known but none of the specified codes are applicable (e.g., chewing tobacco related).

**\*Note: For attributes with a “Specify:” designation, a fill-in text box will open in RBIS.** This text box should be used to provide additional detail about the attribute selection. Please include a specific reason for this selection.

**Consistency Checks** [\(See Section 400\)](#):

| <b>Error ID</b> | <b>IF</b>                                                                           | <b>THEN</b>                                                 |
|-----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------|
| <b>5L0P</b>     | <b><i>any RELATED FACTORS-DRIVER LEVEL equals 010,</i></b>                          | <b><i>DRIVER DISTRACTED BY must equal 00.</i></b>           |
| BJ1P            | UNIT TYPE equals 1, and DRIVER PRESENCE equals 0 or 9,                              | DRIVER DISTRACTED BY must equal 16.                         |
| BJ2P            | UNIT TYPE equals 1, and DRIVER PRESENCE equals 1,                                   | DRIVER DISTRACTED BY must not equal 16 or blank.            |
| BJ3P            | UNIT TYPE equals 1, and DRIVER DISTRACTED BY equals 16,                             | DRIVER PRESENCE must equal 0 or 9.                          |
| BJ4P            | any DRIVER DISTRACTED BY equals 03,                                                 | NUMBER OF OCCUPANTS must be greater than 01.                |
| BJ7P            | any DRIVER DISTRACTED BY equals 00 or 16 or 17 or 18 or 19 or 92 or 93 or 96 or 99, | only that one code and no other must be used.               |
| <b>BJ8P</b>     | <b><i>DRIVER DISTRACTED BY equals 17,</i></b>                                       | <b><i>STATE should equal GA, MN, MO, NV, NY, or SC.</i></b> |
| <b>U200</b>     | <b><i>Unlikely DRIVER DISTRACTED BY equals 18 or 19.</i></b>                        | --                                                          |

## PC17 - Pre-Event Movement (Prior to Recognition of Critical Event)

**FORMAT:** 2 numeric

**SAS NAME:** Vehicle.P\_CRASH1

**ELEMENT VALUES:**

| Codes | Attributes                                                                 |
|-------|----------------------------------------------------------------------------|
| 00    | <a href="#">No Driver Present/Unknown if Driver Present</a>                |
| 01    | <a href="#">Going Straight</a>                                             |
| 02    | <a href="#">Decelerating in Road</a>                                       |
| 03    | <a href="#">Accelerating in Road</a>                                       |
| 04    | <a href="#">Starting in Road</a>                                           |
| 05    | <a href="#">Stopped in Roadway</a>                                         |
| 06    | <a href="#">Passing or Overtaking Another Vehicle</a>                      |
| 07    | <a href="#">Disabled or “Parked” in Travel Lane</a>                        |
| 08    | <a href="#">Leaving a Parking Position</a>                                 |
| 09    | <a href="#">Entering a Parking Position</a>                                |
| 10    | <a href="#">Turning Right</a>                                              |
| 11    | <a href="#">Turning Left</a>                                               |
| 12    | <a href="#">Making a U-Turn</a>                                            |
| 13    | <a href="#">Backing Up (Other Than for Parking Position)</a>               |
| 14    | <a href="#">Negotiating a Curve</a>                                        |
| 15    | <a href="#">Changing Lanes</a>                                             |
| 16    | <a href="#">Merging</a>                                                    |
| 17    | <a href="#">Successful Avoidance Maneuver to a Previous Critical Event</a> |
| 98    | <a href="#">Other (Specify:)</a>                                           |
| 99    | <a href="#">Unknown</a>                                                    |

**Definition:** This element identifies the attribute that best describes this vehicle’s activity prior to the driver’s realization of an impending critical event or just prior to impact if the driver took no action or had no time to attempt any evasive maneuvers.

**Remarks:** Record the attribute that best describes this vehicle’s activity **prior** to the driver’s realization of an impending critical event or just **prior** to impact if the driver took no action or had no time to attempt any evasive maneuvers.

Actions taken by the driver, of this vehicle, **after realization** of an impending danger are captured in [ATTEMPTED AVOIDANCE MANEUVER](#).

**00 (No Driver Present/Unknown if Driver Present)** is pre-coded for in-transport motor vehicles when the element [DRIVER PRESENCE](#) is coded as [0 \(No Driver Present/Not Applicable\)](#).

**01 (Going Straight)** is used when this vehicle's path of travel was straight ahead without any attempted or intended changes. The coding of this attribute is not always dependent on the roadway alignment.

**02 (Decelerating in Road)** is used when this vehicle was traveling straight ahead within the road portion of the trafficway and was decelerating.

**03 (Accelerating in Road)** is used when this vehicle was traveling straight ahead within the road portion of the trafficway and was accelerating. **03 (Accelerating in Road)** must be explicitly stated by officer.

**04 (Starting in Road)** is used when this vehicle was in the process of starting forward from a stopped position *and intending to proceed straight ahead* within the road portion of the trafficway (e.g., start up from traffic signal).

**05 (Stopped in Roadway)** is used when this vehicle was stopped momentarily, with the motor running within the roadway portion of the trafficway (e.g., stopped for traffic signal).

**06 (Passing or Overtaking Another Vehicle)** is used when this vehicle was traveling straight ahead and was in the process of passing or overtaking another vehicle on the left or right. **Note:** This attribute is not used in rear-end collisions. (See Tables - [Precrash Event Scenarios for Different Rear-End Situations](#).)

**07 (Disabled or "Parked" in Travel Lane)** is used when this vehicle was "parked" in a travel lane (e.g., double parked, disabled) with a driver present in the vehicle.

**08 (Leaving a Parking Position)** is used when this vehicle was entering the travel lane from a parking area adjacent to the traffic lanes (i.e., in the process of leaving the parking position). This attribute includes vehicles that were previously stopped/parked on the shoulder, roadside, median, etc. For vehicles backing from a driveway, use attribute [13 \(Backing Up \[Other Than for Parking Position\]\)](#).

**09 (Entering a Parking Position)** is used when this vehicle was leaving the travel lane to a parking area adjacent to the traffic lanes (i.e., in the process of parking). This attribute includes vehicles that are stopping/parking on the shoulder, roadside, median, etc. For vehicle backing into a driveway use [13 \(Backing Up \[Other Than for Parking Position\]\)](#).

**10 (Turning Right)** is used when this vehicle was moving forward and turned right, changing lanes from one roadway to a different roadway (e.g., from or to a driveway, parking lot, or intersection). Excludes situations where the vehicle was leaving a parking position.

**11 (Turning Left)** is used when this vehicle was moving forward and turned left, changing lanes from one roadway to a different roadway (e.g., from or to a driveway, parking lot, or intersection). Excludes situations where the vehicle was leaving a parking position.

**12 (Making a U-Turn)** is used when this vehicle was moving forward making a U-turn on the trafficway. Excludes situations where the vehicle was leaving a parking position.

**13 (Backing Up [Other Than for Parking Position])** is used when this vehicle was intentionally traveling backwards within the trafficway. Vehicles backing into or from a

driveway are included in this attribute. If the backward movement is unintentional (e.g., the vehicle rolls or drifts backward) do not use this attribute (see [98 \(Other \[Specify:\]\)](#)). Also, do not use this attribute if the vehicle was backing into or out of a parking space (see [09 \(Entering a Parking Position\)](#) or [08 \(Leaving a Parking Position\)](#), respectively).

**14 (Negotiating a Curve)** is used when this vehicle was continuing along a road that curved to the right or left.

**15 (Changing Lanes)** is used when this vehicle was traveling straight ahead and changed travel lanes to the right or left while on the same roadway.

**16 (Merging)** is used when this vehicle was moving forward and merging from the left or right into a traffic lane (e.g., roadway narrows, exit/entrance ramps).

**17 (Successful Avoidance Maneuver to a Previous Critical Event)** is used when this vehicle responded to a previous critical event and successfully avoided an impact. However, this maneuver precipitated a subsequent critical crash envelope, which resulted in this vehicle's first impact.

**98 (Other [Specify:])** is used when this vehicle's PRE-EVENT MOVEMENT is known but none of the specified attributes are applicable. An example would be a vehicle that unintentionally travels (e.g., rolls or drifts) backward. The movement must be specified in the "specify box."

**\*Note: For attributes with a "Specify:" designation,** a fill-in text box will open in **RBIS**. This text box should be used to provide additional detail about the attribute selection. Please include a specific reason for this selection.

**99 (Unknown)** is used when the vehicle's movement prior to the driver's realization of an impending critical event is unknown.

#### Consistency Checks [\(See Section 400\)](#):

| Error ID | IF                                                                           | THEN                                                                           |
|----------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| 3B4P     | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 10,       | CRASH TYPE must not equal 44-69, 71-73, 76, 77, 79, 81-83, 86-92.              |
| 3B5P     | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 11,       | CRASH TYPE must not equal 44-67, 69-71, 73, 77-81, 83, 86-92.                  |
| 3BDP     | CRASH TYPE equals 46, 47, and ATTEMPTED AVOIDANCE MANEUVER equals 01 or 99,  | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must not equal 01. |
| 3BFP     | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 08 or 09, | CRASH TYPE must not equal 46 or 47.                                            |
| 3BGP     | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 00,       | DRIVER PRESENCE must equal 0 or 9.                                             |



| <b>Error ID</b> | <b>IF</b>                                                                            | <b>THEN</b>                                                                                                                                      |
|-----------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| 3C00            | CRASH TYPE equals 68, 72, 76, or 82,                                                 | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 11 or 98.                                                               |
| 3C10            | CRASH TYPE equals 70, 78, or 80,                                                     | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 10 or 98.                                                               |
| 3C20            | this vehicle is involved in the FIRST HARMFUL EVENT and its CRASH TYPE equals 29-31, | this vehicle's PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 02.                                                      |
| 3C30            | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 12,               | CRASH TYPE should equal 98.                                                                                                                      |
| 3C40            | CRASH TYPE equals 46,                                                                | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 06, 15, 16, or ATTEMPTED AVOIDANCE MANEUVER should equal 07, 09, or 12. |
| 3C50            | CRASH TYPE equals 92,                                                                | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 08, 09, 13, 99.                                                           |
| 3C60            | CRASH TYPE equals 25-27, 29-31,                                                      | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should not equal 05 or 07.                                                           |
| 3C70            | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 13,               | CRASH TYPE should equal 92 or 98.                                                                                                                |
| 3C80            | CRASH TYPE equals 47,                                                                | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 06, 15, 16, or ATTEMPTED AVOIDANCE MANEUVER should equal 06, 08, or 11. |
| 3D60            | CRASH TYPE equals 46 or 47,                                                          | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should not equal 01.                                                                 |
| <b>3E10</b>     | <b>CRITICAL EVENT - PRECRASH (EVENT) equals 15 or 16,</b>                            | <b>PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should not equal 01.</b>                                                          |
| <b>3E11</b>     | <b>PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 01,</b>        | <b>CRITICAL EVENT - PRECRASH (EVENT) should not equal 15 or 16.</b>                                                                              |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                    | <b>THEN</b>                                                                                                                                                   |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>42IP</b>     | <b>TRAVEL SPEED equals 000,</b>                                                                                                                                                                                                              | <b>PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 00, 05, 07, 17, 98, or 99.</b>                                                      |
| 9BAP            | MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 07, and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 10 or 11 for neither one of the vehicles involved in the FIRST HARMFUL EVENT,                               | CRASH TYPE should equal 44-49, 98, 99 for the vehicles involved in the FIRST HARMFUL EVENT.                                                                   |
| 9BCP            | MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 08, and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 10 or 11 for neither one of the vehicles involved in the FIRST HARMFUL EVENT,                               | CRASH TYPE should equal 64-67, 98, 99 for the vehicles involved in the FIRST HARMFUL EVENT.                                                                   |
| A430            | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 10, 11 for a vehicle involved in the FIRST HARMFUL EVENT,                                                                                                                 | RELATION TO JUNCTION (b) should not equal 01, 18.                                                                                                             |
| A4C0            | RELATION TO JUNCTION (b) equals 04,                                                                                                                                                                                                          | at least one PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) for the vehicles involved in the FIRST HARMFUL EVENT should equal 10, 11, 13, or 98. |
| A4D0            | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 14,                                                                                                                                                                       | ROADWAY ALIGNMENT must equal 2-4.                                                                                                                             |
| A4D1            | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 01,                                                                                                                                                                       | ROADWAY ALIGNMENT should not equal 2-4.                                                                                                                       |
| A61F            | FIRST HARMFUL EVENT equals 08, 09, 11, 15, 49, and RELATION TO TRAFFICWAY equals 01, 02, 07, 11, and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) is not equal to 00, 13 for the vehicle involved in the FIRST HARMFUL EVENT, | CRASH TYPE should equal 13 for the vehicle involved in the FIRST HARMFUL EVENT.                                                                               |
| AZ20            | UNIT TYPE equals 1, and DRIVER PRESENCE equals 0 or 9,                                                                                                                                                                                       | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 00.                                                                                    |
| AZ30            | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 00,                                                                                                                                                                       | ATTEMPTED AVOIDANCE MANEUVER must equal 00.                                                                                                                   |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                   | <b>THEN</b>                                                                                                                                                                                  |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AZ50            | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 00,                                                                                      | PRE-IMPACT STABILITY must equal 0.                                                                                                                                                           |
| AZ60            | PRE-IMPACT STABILITY equals 0,                                                                                                                              | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 00.                                                                                                                   |
| AZ6P            | any DRIVER MANEUVERED TO AVOID equals 00,                                                                                                                   | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must not equal 17.                                                                                                               |
| AZ70            | PRE-IMPACT LOCATION equals 0,                                                                                                                               | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 00.                                                                                                                   |
| AZ80            | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 00,                                                                                      | PRE-IMPACT LOCATION must equal 0.                                                                                                                                                            |
| <b>AZ81</b>     | <b><i>PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 15, or CRITICAL EVENT - PRECRASH (EVENT) equals 10 or 11 for this vehicle,</i></b> | <b><i>PRE-IMPACT LOCATION should not equal 1 (Stayed in Original Travel Lane) for this vehicle.</i></b>                                                                                      |
| AZA0            | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 05 or 07,                                                                                | TRAVEL SPEED should equal 000 for this vehicle.                                                                                                                                              |
| AZA2            | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) does not equal 10, 11, or 12,                                                                   | then RELATED FACTORS - DRIVER LEVEL should not equal 048.                                                                                                                                    |
| AZA3            | RELATED FACTORS - DRIVER LEVEL equals 048,                                                                                                                  | then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 10, 11, or 12.                                                                                                 |
| B10P            | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) does not equal 17, and ATTEMPTED AVOIDANCE MANEUVER equals 01,                                  | DRIVER MANEUVERED TO AVOID should equal 00.                                                                                                                                                  |
| PB17            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN for a person involved in the first harmful event equals 211-214, or 219,                                   | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 08, 09, 13, or 98. Note: this edit is restricted to vehicles which are involved in only one event with pedestrian(s). |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                         | <b>THEN</b>                                                                                                                                                                                                 |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PB40            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLE equals 610,                                                                                                                                                                         | at least one PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 08, 09, or 13 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST. |
| PB41            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLE equals 215,                                                                                                                                                                         | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 08 or 09 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.                   |
| PB42            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLE equals 111, 211, or 212,                                                                                                                                                            | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 11, 16, or 17 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.              |
| PB43            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLE equals 112, 151, 213, 214, 217, or 218,                                                                                                                                             | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 10, 16, or 17 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.              |
| PB45            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 781 or 782,                                                                                                                                                               | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 11 or 17 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.                   |
| PB46            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLE equals 221-225,                                                                                                                                                                     | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 01 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.                       |
| PB49            | PERSON TYPE equals 05, <b>11, 12, or 13</b> , and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 13 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST, | at least one PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN should equal 211-214 or 219.                                                                                                                  |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                  | <b>THEN</b>                                                                                                                                                                               |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PB50            | PERSON TYPE equals 05, <b>11, 12, or 13</b> , and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 10-12 or 16 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST, | at least one PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN should equal 461, 465, 469, 510, 781, 782, 791, 792, 794, 795, or 799.                                                      |
| PB52            | PERSON TYPE equals 06 or 07, and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 13 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST,                           | at least one PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLE should equal 610.                                                                                                              |
| PB56            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 791, 792, 794, 795,                                                                                                                                                                | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 10 or 17 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST. |
| PBA0            | PEDESTRIAN/ BIKE TYPING - CRASH TYPE - BICYCLE equals 111, 211, 212, and VEHICLE NUMBER - VEHICLE LEVEL equals VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST,                                                                      | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 11.                                                                                                              |
| PBA1            | PEDESTRIAN/ BIKE TYPING - CRASH TYPE - BICYCLE equals 112, 151, 213, 214, 217, or 218, and VEHICLE NUMBER - VEHICLE LEVEL equals VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST,                                                    | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 10.                                                                                                              |
| PBA5            | PEDESTRIAN SCENARIO equals 1a, 1b, 1c, 1d, 2a, 2b, 2c, 2d, 3a, 3b, 3c, 3d, 4a, 4b, 4c, 4d,                                                                                                                                                 | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 01, 02, 03, 04, 06, 08, 09, 12, 13, 14, 15, 16, or 17 for the vehicle number that struck this non-motorist.      |
| PBA6            | PEDESTRIAN SCENARIO equals 5a, 5b, 5c, 5d, 6a, 6b, 6c, 6d, 7a, 7b, 7c, 7d, 8a, 8b, 8c, 8d,                                                                                                                                                 | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 10 for the vehicle number that struck this non-motorist.                                                         |
| PBA7            | PEDESTRIAN SCENARIO equals 9a, 9b, 9c, 9d, 10a, 10b, 10c, 10d, 11a, 11b, 11c, 11d, 12a, 12b, 12c, 12d,                                                                                                                                     | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 11 for the vehicle number that struck this non-motorist.                                                         |

| <b>Error ID</b> | <b>IF</b>                               | <b>THEN</b>                                                                                                       |
|-----------------|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| V535            | ATTEMPTED AVOIDANCE MANEUVER equals 00, | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 00.                                        |
| V538            | JACKKNIFE equals 2,                     | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must not equal 04, 05, 07-09, or 13 for this vehicle. |

## PC18 - Critical Event - Precrash (Category)

**FORMAT:** 1 numeric

**SAS NAME:** none

**ELEMENT VALUES:**

| Codes | Attributes                                                       |
|-------|------------------------------------------------------------------|
| 1     | <a href="#">This Vehicle Loss of Control Due to:</a>             |
| 2     | <a href="#">This Vehicle Traveling</a>                           |
| 3     | <a href="#">Other Motor Vehicle in Lane</a>                      |
| 4     | <a href="#">Other Motor Vehicle Encroaching into Lane</a>        |
| 5     | <a href="#">Pedestrian or Pedalcyclist or Other Non-Motorist</a> |
| 6     | <a href="#">Object or Animal</a>                                 |
| 7     | <a href="#">Other</a>                                            |
| 9     | <a href="#">Unknown</a>                                          |

**Definition:** This element identifies the category of the event that was critical to this vehicle being involved in the crash.

**Remarks:** When more than one condition applies and it cannot be determined which one had a greater effect, choose the higher listed attribute (e.g., [1 \(This Vehicle Loss of Control Due to:\)](#) takes precedence over [2 \(This Vehicle Traveling\)](#)).

If you do not know from available sources which driver had the right-of-way at a controlled or uncontrolled intersection, follow the guidelines under [Precrash General Rule #6](#).

See the [Coding Guide: Precrash Critical Event Category Flowchart](#) for helpful information.

**1 (This Vehicle Loss of Control Due to:)** is used to identify situations where the critical factor leading to the collision involved control loss of this vehicle. Control loss can be related to either mechanical failure or environmentally induced vehicle instability. (See [Precrash General Rule #5](#) for additional guidance.)

**2 (This Vehicle Traveling)** is used to identify situations where the critical factor leading to the collision involves the travel path of this vehicle.

**3 (Other Motor Vehicle in Lane)** is used to identify situations where the critical factor leading to the collision involved the travel of the other vehicle in the same lane as this vehicle.

**4 (Other Motor Vehicle Encroaching into Lane)** is used to identify situations where the critical factor leading to the collision involves the other vehicle's movement into or across this vehicle's travel lane from another lane, intersection, driveway, or ramp.

**5 (Pedestrian or Pedalcyclist or Other Non-Motorist)** is used to identify situations where the critical factor leading to the collision for this vehicle involved a pedestrian, pedalcyclist, or other non-motorist. A pedalcyclist is defined as a person riding a pedal power conveyance (bicycle, tricycle, etc.). Other non-motorists include people on personal conveyances (baby carriage, skate

board, roller blades, motorized wheelchair, etc.) and any person riding on an animal or in an animal-drawn conveyance (on horseback, in a horse-drawn carriage, etc.).

**6 (Object or Animal)** is used to identify situations where the critical factor leading to the collision for this vehicle involved an object or animal.

**7 (Other)** is used when a critical factor not previously listed resulted in the collision for this vehicle. Previous impacts in the crash are not considered as other critical precrash events.

**9 (Unknown)** is used when the critical precrash event that resulted in the collision is unknown.

**Consistency Check** [\(See Section 400\)](#):

| <i><b>Error ID</b></i> | <i><b>Error Message</b></i>                                                                       |
|------------------------|---------------------------------------------------------------------------------------------------|
| FP6F                   | UNIT TYPE equals 1, and CRITICAL EVENT - PRECRASH (CATEGORY) equals blank, case status is flawed. |



**PC19 - Critical Event - Precrash (Event)****FORMAT:** 2 numeric**SAS NAME:** Vehicle.P\_CRASH2**ELEMENT VALUES:****THIS VEHICLE LOSS OF CONTROL DUE TO:**

| <b>Codes</b> | <b>Attributes</b>                                                                                 |
|--------------|---------------------------------------------------------------------------------------------------|
| 01           | <a href="#">Blow Out/Flat Tire</a>                                                                |
| 02           | <a href="#">Stalled Engine</a>                                                                    |
| 03           | <a href="#">Disabling Vehicle Failure (e.g., Wheel Fell Off) (Specify:)</a>                       |
| 04           | <a href="#">Non-Disabling Vehicle Problem (e.g., Hood Flew Up) (Specify:)</a>                     |
| 05           | <a href="#">Suddenly Encountered Poor Road Conditions (Puddle, Pothole, Ice, Etc.) (Specify:)</a> |
| 06           | <a href="#">Traveling Too Fast for Conditions or Road Configuration</a>                           |
| 08           | <a href="#">Other Cause of Control Loss (Specify:)</a>                                            |
| 09           | <a href="#">Unknown Cause of Control Loss</a>                                                     |

**THIS VEHICLE TRAVELING**

| <b>Codes</b> | <b>Attributes</b>                                               |
|--------------|-----------------------------------------------------------------|
| 10           | <a href="#">Over the Lane Line on Left Side of Travel Lane</a>  |
| 11           | <a href="#">Over the Lane Line on Right Side of Travel Lane</a> |
| 12           | <a href="#">Off the Edge of the Road on the Left Side</a>       |
| 13           | <a href="#">Off the Edge of the Road on the Right Side</a>      |
| 14           | <a href="#">End Departure</a>                                   |
| 15           | <a href="#">Turning Left</a>                                    |
| 16           | <a href="#">Turning Right</a>                                   |
| 17           | <a href="#">Crossing Over (Passing Through) Junction</a>        |
| 18           | <a href="#">This Vehicle Decelerating</a>                       |
| 19           | <a href="#">Unknown Travel Direction</a>                        |
| 20           | <a href="#">Backing</a>                                         |
| 21           | <a href="#">Making a U-Turn</a>                                 |

### OTHER MOTOR VEHICLE IN LANE

| Codes | Attributes                                                                        |
|-------|-----------------------------------------------------------------------------------|
| 50    | <a href="#">Other Vehicle Stopped</a>                                             |
| 51    | <a href="#">Traveling in Same Direction with Lower Steady Speed</a>               |
| 52    | <a href="#">Traveling in Same Direction While Decelerating</a>                    |
| 53    | <a href="#">Traveling in Same Direction with Higher Speed</a>                     |
| 54    | <a href="#">Traveling in Opposite Direction</a>                                   |
| 55    | <a href="#">In Crossover</a>                                                      |
| 56    | <a href="#">Backing</a>                                                           |
| 59    | <a href="#">Unknown Travel Direction/Speed of the Other Motor Vehicle in Lane</a> |

### OTHER MOTOR VEHICLE ENCROACHING INTO LANE

| Codes | Attributes                                                               |
|-------|--------------------------------------------------------------------------|
| 60    | <a href="#">From Adjacent Lane (Same Direction) Over Left Lane Line</a>  |
| 61    | <a href="#">From Adjacent Lane (Same Direction) Over Right Lane Line</a> |
| 62    | <a href="#">From Opposite Direction Over Left Lane Line</a>              |
| 63    | <a href="#">From Opposite Direction Over Right Lane Line</a>             |
| 64    | <a href="#">From Parking Lane/Shoulder, Median/Crossover, Roadside</a>   |
| 65    | <a href="#">From Crossing Street, Turning into Same Direction</a>        |
| 66    | <a href="#">From Crossing Street, Across Path</a>                        |
| 67    | <a href="#">From Crossing Street, Turning into Opposite Direction</a>    |
| 68    | <a href="#">From Crossing Street, Intended Path Not Known</a>            |
| 70    | <a href="#">From Driveway, Turning into Same Direction</a>               |
| 71    | <a href="#">From Driveway, Across Path</a>                               |
| 72    | <a href="#">From Driveway, Turning into Opposite Direction</a>           |
| 73    | <a href="#">From Driveway, Intended Path Not Known</a>                   |
| 74    | <a href="#">From Entrance to Limited Access Highway</a>                  |
| 78    | <a href="#">Encroachment by Other Vehicle - Details Unknown</a>          |

### PEDESTRIAN OR PEDALCYCLIST OR OTHER NON-MOTORIST

| Codes | Attributes                                                          |
|-------|---------------------------------------------------------------------|
| 80    | <a href="#">Pedestrian in Road</a>                                  |
| 81    | <a href="#">Pedestrian Approaching Road</a>                         |
| 82    | <a href="#">Pedestrian Unknown Location</a>                         |
| 83    | <a href="#">Pedalcyclist or Other Non-Motorist in Road</a>          |
| 84    | <a href="#">Pedalcyclist or Other Non-Motorist Approaching Road</a> |
| 85    | <a href="#">Pedalcyclist or Other Non-Motorist Unknown Location</a> |

### OBJECT OR ANIMAL

| Codes | Attributes                                |
|-------|-------------------------------------------|
| 87    | <a href="#">Animal in Road</a>            |
| 88    | <a href="#">Animal Approaching Road</a>   |
| 89    | <a href="#">Animal - Unknown Location</a> |
| 90    | <a href="#">Object in Road</a>            |
| 91    | <a href="#">Object Approaching Road</a>   |
| 92    | <a href="#">Object Unknown Location</a>   |

### OTHER

| Code | Attribute                                                |
|------|----------------------------------------------------------|
| 98   | <a href="#">Other Critical Precrash Event (Specify:)</a> |

### UNKNOWN:

| Code | Attribute               |
|------|-------------------------|
| 99   | <a href="#">Unknown</a> |

**Definition:** This element identifies the critical event that made the crash imminent (i.e., something occurred that made the collision possible).

**Remarks:**

The selection of the [CRITICAL PRECRASH CATEGORY](#) will determine what CRITICAL PRECRASH EVENTS are available to select.

When you know the CRITICAL PRECRASH CATEGORY, but are unable to select a specific CRITICAL PRECRASH EVENT, use the following guideline:

Default to one of the “Other” or “Unknown” attributes within each CRITICAL PRECRASH EVENT CATEGORY, rather than coding the entire CRITICAL PRECRASH CATEGORY as “Other critical precrash event.” ([Precrash General Rule #3](#))

**\*Note: For attributes with a “Specify:” designation**, a fill-in text box will open in **RBIS**. This text box should be used to provide additional detail about the attribute selection. Please include a **specific** reason for this selection.

Responsive actions to this situation, if any, are coded under [ATTEMPTED AVOIDANCE MANEUVER](#).

A CRITICAL PRECRASH EVENT is coded for each vehicle and identifies the circumstances leading to this vehicle’s first impact in the crash.

Do not refer to culpability. Many crash scenarios will suggest fault, but this should be coincidental rather than by design. As an example, vehicle 1 was speeding when vehicle 2 crossed vehicle 1’s path from a driveway. The situation that made the precrash event critical for vehicle 1 (since it did not lose control) was vehicle 2’s movement across vehicle 1’s path **and not** vehicle 1’s speed.

The mere presence of a traffic control signal/sign typically does not make the situation critical when determining CRITICAL PRECRASH EVENT. (See example under [Precrash General Rule #2](#))

When selecting events within the categories of [This Vehicle Traveling](#) and [Other Motor Vehicle Encroaching Into Lane](#) for Critical Events occurring in intersections, a vehicle’s “travel lane” extends through the intersection area even if no lane line markings are present within the intersection. For example, for a vehicle that is turning left, its original travel lane extends through the intersection to the lane into which it is turning (see [Figure 26](#) below).

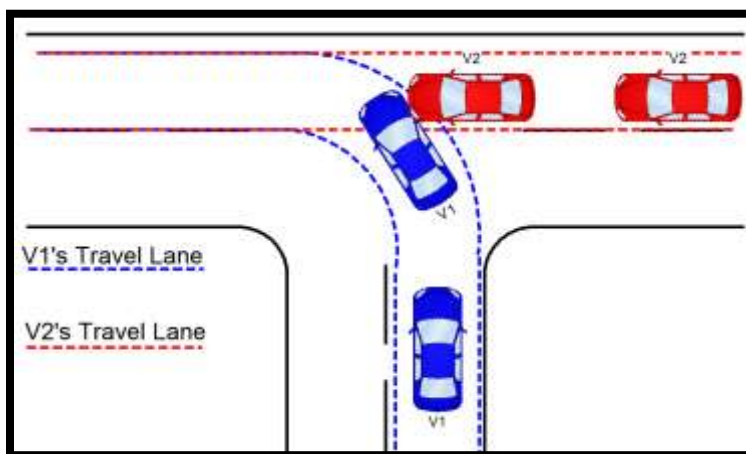


*Figure 26: Diagram of a Vehicle Turning Left and its Extended Travel Lane*

A motor vehicle is stopped in a travel lane and is impacted by another motor vehicle ricocheting off a vehicle. The CRITICAL PRECRASH EVENT for the vehicle struck by the ricocheting

vehicle is in the category of either: [Other Motor Vehicle In Lane](#) or [Other Motor Vehicle Encroaching Into Lane](#). ([Precrash General Rule #9](#))

***This Vehicle Loss of Control Due to:***

**01 (Blow Out or Flat Tire)** is used when a vehicle in motion loses control as the result of an immediate tire disruption. Examples include blow out, rapid air loss, tread separation, etc.

**02 (Stalled Engine)** refers to a vehicle that is in motion and loses engine power. A stalled engine situation must precipitate a collision to be coded in this element. A vehicle that is stopped as the result of an engine malfunction does not take this attribute.

**03 (Disabling Vehicle Failure [e.g., Wheel Fell Off] [Specify:])** is selected when a mechanical malfunction, such as a component of the vehicle suspension or steering system, leads to the critical reason for the collision. (See “[Note: For attributes with “specify:” designation](#)“ at the beginning of Remarks section for this element.)

**04 (Non-Disabling Vehicle Problem [e.g., Hood Flew Up] [Specify:])** is selected when some mechanical abnormality suddenly occurred to this vehicle that leads to the critical reason for the collision. The abnormality must not be disabling damage. For bald tires, see [06 \(Traveling Too Fast for Conditions or Road Configuration\)](#). (See “[Note: For attributes with “specify:” designation](#)“ at the beginning of Remarks section for this element.)

**05 (Suddenly Encountered Poor Road Conditions [Puddle, Pothole, Ice, Etc.] [Specify:])** captures control loss due to suddenly encountered environmental conditions of the roadway and not ongoing situations. For ongoing situations, see [06 \(Traveling Too Fast for Conditions or Road Configuration\)](#). These conditions must have initiated the precrash event that resulted in the collision. (See “[Note: For attributes with “specify:” designation](#)“ at the beginning of Remarks section for this element.)

**06 (Traveling Too Fast for Conditions or Road Configuration)** identifies this vehicle’s movement and speed were not appropriate relative to its surroundings in which the subsequent loss of control led to the collision. This attribute applies when the loss of control is due to a vehicle traveling at a speed that was unsafe for the road configuration or conditions, and has no bearing on the [SPEED LIMIT](#). The officer does not necessarily have to indicate that speed was a factor in the crash, and therefore this attribute is independent of [SPEEDING RELATED](#). This attribute may also be used in situations where there are no adverse weather and/or road surface conditions.

**Examples include:**

- A roadway departure on a curve where the driver failed to negotiate and departed the roadway resulting in an impact. If the driver merely steered straight while in a curve and departed the roadway, the category This Vehicle Traveling may apply.
- The vehicle loses control (hydroplanes) on a wet roadway (can be due to bald tires).

**08 (Other Cause of Control Loss [Specify:])** is selected when it was determined that this vehicle’s loss of control was the primary reason that made the event critical and the above attributes do not adequately identify the control loss condition. If control is lost due to driver illness such as heart attacks, diabetic comas, etc., then CRITICAL EVENT - PRECRASH

(EVENT) should be coded as **08 (Other cause of control loss [specify:])**. This attribute should not be used for drivers who are impaired by alcohol and/or drugs unless the driver's [CONDITION \(IMPAIRMENT\) AT TIME OF CRASH](#) equals **01 (Ill, Blackout)**. (See "[Note: For attributes with "Specify:" designation](#)" at the beginning of Remarks section for this element.)

**09 (Unknown Cause of Control Loss)** is selected when it is known control loss made the situation critical, but it is unknown whether the vehicle or the environment caused the control loss.

### **This Vehicle Traveling**

These attributes identify situations where the critical factor leading to the collision involved the travel path of **this** vehicle.

**10 (Over the Lane Line on Left Side of Travel Lane)** is selected when this vehicle departs its lane to the left and is entering or had entered the adjoining lane, shoulder, or designated bike lane. The change of travel path by this vehicle must precipitate the critical event for the collision. As an example, this vehicle attempts to pass another vehicle on the other vehicle's left and is struck by a vehicle traveling within its travel lane in the opposite direction.

However, by modifying the scenario slightly, the lane change may not always be the factor leading to the precrash event. Consider the same situation where this vehicle is passing to the left of the lead vehicle. If an animal runs into the roadway and is struck by this vehicle, then the correct choice would be [87 \(Animal in Road\)](#).

**11 (Over the Lane Line on Right Side of Travel Lane)** is selected when this vehicle departs its lane to the right and is entering or had entered the adjoining lane, shoulder, or designated bike lane. To use this attribute, change of travel path by this vehicle must precipitate the critical event for the collision. As an example, this vehicle attempts to pass another vehicle on the other vehicle's right and is struck in the rear by a vehicle traveling within its travel lane in the same direction. The correct choice for this vehicle would be **11 (Over the Lane Line on Right Side of Travel Lane)**.

However, by modifying the scenario slightly the lane change may not always be the factor leading to the precrash event. Consider the same situation where this vehicle is passing to the right of the lead vehicle. If an animal runs into the road and is struck by this vehicle, then the correct choice would be [87 \(Animal in Road\)](#).

**12 (Off the Edge of the Road on the Left Side)** identifies a situation where the initial precrash event occurred beyond the left side shoulder area. This also includes departure into a median.

**13 (Off the Edge of the Road on the Right Side)** identifies a situation where the initial precrash event occurred beyond the right-side shoulder area.

**14 (End Departure)** is used when the vehicle departs the end of the roadway (e.g., "T" intersection).

**15 (Turning Left)** is used when this vehicle attempts a left turn to or from its roadway or driveway to another roadway or driveway.

**16 (Turning Right)** is used when this vehicle attempts a right turn to or from its roadway or driveway to another roadway or driveway.

**17 (Crossing Over (Passing Through) Junction)** identifies this vehicle's travel as proceeding through the junction without any planned turning.

**18 (This Vehicle Decelerating)** is used when the vehicle is decelerating.

**19 (Unknown Travel Direction)** is used for those occasions where this vehicle's travel made the situation critical, but it is unknown which travel direction this vehicle was moving.

**20 (Backing)** is used when this vehicle was backing in a travel lane or backing into the roadway from a driveway, shoulder, or parking lane. This attribute excludes unintentional backward movement of the vehicle such as a vehicle that rolls or drifts backward (see [98 \(Other Critical Precrash Event \[Specify:\]\)](#)).

**21 (Making a U-Turn)** is used when this vehicle attempts to make a U-Turn. When it cannot be determined if the vehicle is making a left or a U-Turn, default to left turn.

### **Other Motor Vehicle in Lane**

These attributes identify situations where the critical factor leading to the collision involved the travel of the **other** vehicle in the same lane as **this** vehicle. **Note:** For Rear-End collision situations involving three vehicles see tables [Precrash Event Scenarios for Different Rear-End Collision Situations](#).

**50 (Other Vehicle Stopped)** identifies a situation where the other vehicle is not in motion (i.e., stopped, parked, disabled) and in this vehicle's travel lane.

**51 (Traveling in Same Direction with Lower Steady Speed)** is used when the other vehicle was the lead vehicle in the same travel lane, traveling in the same direction, and was traveling slower than this vehicle.

**52 (Traveling in Same Direction While Decelerating)** is used when the other vehicle was the lead vehicle in the same travel lane, traveling in the same direction, and was decelerating. Deceleration can include intentional deceleration by braking or unintended deceleration caused by a prior event (e.g., tire blowout, prior collision).

**53 (Traveling in Same Direction with Higher Speed)** is used when the speed of the other vehicle was higher than this vehicle or accelerating. The other vehicle must be overtaking this vehicle.

**54 (Traveling in Opposite Direction)** is used when the other vehicle was in this vehicle's travel lane and traveling head-on in the opposite direction of this vehicle.

**55 (In Crossover)** is used when the other vehicle enters a crossover already occupied by this vehicle. A crossover is defined as a designated opening within a median used primarily for "U-turns."

**56 (Backing)** identifies a situation where the other vehicle was in the process of backing up while in this vehicle's travel lane. This attribute also includes unintentional backward movement of the other vehicle. For example, a vehicle that rolls or drifts backward in this vehicle's lane.

**59 (Unknown Travel Direction/Speed of Other Motor Vehicle in Lane)** is used for situations where the other vehicle's activity (while in the same lane as this vehicle) precipitated the precrash event, but the travel direction and/or speed could not be determined.

### **Other Motor Vehicle Encroaching into Lane**

These attributes identify situations where the critical factor leading to the collision involved the **other** vehicle's movement into or across **this** vehicle's travel lane from another lane, intersection, driveway, or ramp.

When two vehicles are initially traveling on the same trafficway and one executes a left turn with the right-of-way (i.e., green arrow), use **Other Motor Vehicle Encroaching Into Lane - From opposite direction-over right lane line** for the turning vehicle's critical event. This applies to CRASH TYPES 68, 69.

If the vehicles were initially on different trafficways (CRASH TYPES 76, 77 and 82, 83) the critical event for the vehicle turning left with the right-of-way should be **Other Motor Vehicle Encroaching - From crossing street across path**. (Precrash General Rule #7.)

**60 (From Adjacent Lane (Same Direction) Over Left Lane Line)** is used when the other vehicle was traveling in the same direction as this vehicle and crosses the left lane line with respect to this vehicle's travel lane (i.e., other vehicle crosses its right lane line).

**61 (From Adjacent Lane (Same Direction) Over Right Lane Line)** is used when the other vehicle was traveling in the same direction as this vehicle and crosses the right lane line with respect to this vehicle's travel lane (i.e., other vehicle crosses its left lane line).

**62 (From Opposite Direction Over Left Lane Line)** identifies a situation where the other vehicle crosses the left lane line while traveling in the opposite direction from this vehicle.

**63 (From Opposite Direction Over Right Lane Line)** identifies a situation where the other vehicle crosses the right lane line while traveling in the opposite direction from this vehicle.

**64 (From Parking Lane/Shoulder, Median/Crossover, Roadside)** is selected when the other vehicle's *Critical Precrash envelope began when* departing one of these trafficway components and entering the travel lane of this vehicle. ***This attribute is not to be used for vehicles that cross the median or are re-entering the roadway after a departure.***

**65 (From Crossing Street, Turning into Same Direction)** is used when the other vehicle was turning from another roadway onto this vehicle's roadway and attempted to travel in the same direction as this vehicle.

**66 (From Crossing Street, Across Path)** is used when the other vehicle was continuing straight through the intersection and attempted to cross over this vehicle's roadway.

**67 (From Crossing Street, Turning into Opposite Direction)** is used when the other vehicle was entering an intersection from another roadway and was turning or attempting to turn onto this vehicle's roadway in the opposite travel direction of this vehicle.

**68 (From Crossing Street, Intended Path Not Known)** is used when the other vehicle's entrance into the intersection was the critical factor that led to the collision; however, the other vehicle's travel direction could not be determined.

**70 (From Driveway, Turning into Same Direction)** is used when the other vehicle was turning from a driveway onto this vehicle's roadway and attempted to travel in the same direction as this vehicle.



**71 (From Driveway, Across Path)** is used when the other vehicle was entering this vehicle's roadway from a driveway and was continuing straight across to another driveway or roadway.

**72 (From Driveway, Turning into Opposite Direction)** is used when the other vehicle was entering this vehicle's roadway from a driveway and was attempting to turn into the opposite travel direction of this vehicle.

**73 (From Driveway, Intended Path Not Known)** is used to identify driveway-related precrash events where details surrounding the other vehicle's intended path are not known.

**74 (From Entrance to Limited Access Highway)** is used for entrance ramp situations where the other vehicle was attempting to enter (merge) onto the limited access highway that was being traveled by this vehicle.

**78 (Encroachment by Other Vehicle Details Unknown)** is used for situations where the other vehicle initiated the critical precrash event, but circumstances surrounding the other vehicle's encroachment are unknown.

### **Pedestrian or Pedalcyclist or Other Non-Motorist**

These attributes identify situations where the critical factor leading to the collision for this vehicle involved a pedestrian, pedalcyclist, or other non-motorist. These selections include situations where a vehicle was exiting a driveway. A pedalcyclist is defined as a person riding a pedal powered conveyance (bicycle, tricycle, etc.). Other non-motorists include people on personal conveyances (baby carriage, skateboard, rollerblades, motorized wheelchair, etc.) and any person riding on an animal or in an animal-drawn conveyance (on horseback, in a horse-drawn carriage, etc.).

**80 (Pedestrian in Road)** is used when a pedestrian was present (sitting, standing, walking, or running, etc.) in the road ***and in the travel path of this vehicle during this vehicle's critical precrash envelope***. For people not on foot (e.g., person on a skateboard or in a motorized wheelchair), use **83 (Pedalcyclist or Other Non-Motorist in Road)**.

#### ***Examples:***

- ***The driver does not see the pedestrian in the road in the vehicle's travel path ahead and strikes the pedestrian in the road.***
- ***The driver sees the pedestrian in the road in the vehicle's travel path ahead, swerves to avoid the pedestrian, drives off the road, and hits a mailbox.***

**81 (Pedestrian Approaching Road)** identifies situations where a pedestrian was within the trafficway and moving toward the road or attempting to enter the road but was not on the road ***during this vehicle's critical precrash envelope***.

#### ***Example:***

- The driver sees the pedestrian approaching the road, swerves to avoid the pedestrian, drives off the road, and hits a mailbox.

**82 (Pedestrian Unknown Location)** is used when it was determined the presence or action of a pedestrian was the critical factor that led to this vehicle's collision, but the location or action of the pedestrian was not known.

***Example:***

- It is known that the presence of a Pedestrian was the event that made the situation critical for this vehicle; however, whether the Pedestrian was approaching the road or already in the road and in the travel path of the vehicle is not known.

**83 (Pedalcyclist or Other Non-Motorist in Road)** is selected when a pedalcyclist or other non-motorist was present in the road (irrespective of relative motion) ***and in the travel path of this vehicle during this vehicle's critical precrash envelope***. Other non-motorists include people on personal conveyances (baby carriage, skate board, roller blades, motorized wheelchair, etc.) and any person riding on an animal or in an animal-drawn conveyance (on horseback, in a horse-drawn carriage, etc.).

***Examples:***

- ***The driver does not see the pedalcyclist in the road in the vehicle's travel path ahead and strikes the pedalcyclist in the road.***
- ***The driver sees the pedalcyclist in the road in the vehicle's travel path ahead, swerves to avoid the pedalcyclist, drives off the road, and hits a mailbox.***

**84 (Pedalcyclist or Other Non-Motorist Approaching Road)** identifies situations where the pedalcyclist or other non-motorist was within the trafficway and moving toward the road or attempting to enter the road but was not on the road ***during this vehicle's critical precrash envelope***.

***Example:***

- ***The driver sees the pedalcyclist approaching the road, swerves to avoid the pedalcyclist, drives off the road, and hits a mailbox.***

**85 (Pedalcyclist or Other Non-Motorist Unknown Location)** is used when it was determined the presence or action of a pedalcyclist or other non-motorist was the critical factor that led to this vehicle's collision, but the action of the pedalcyclist or other non-motorist was not known.

***Example:***

- ***It is known that the presence of a Pedalcyclist or Other Non-Motorist was the event that made the situation critical for this vehicle; however, whether the Pedalcyclist or Other Non-Motorist was approaching the road or already in the road and in the travel path of the vehicle is not known.***

## Object or Animal

These attributes identify situations where the critical factor leading to the collision for this vehicle involved a **non-fixed** object or animal.

**87 (Animal in Road)** is used when an animal was present (i.e., stationary or moving) in the road **and in the travel path of this vehicle during this vehicle's critical precrash envelope**.

### *Examples:*

- *The driver does not see the animal in the road in the vehicle's travel path ahead and strikes the animal in the road.*
- *The driver sees the animal in the road in the vehicle's travel path ahead, swerves to avoid the animal, drives off the road, and hits a mailbox.*

**88 (Animal Approaching Road)** identifies situations where an animal was within the trafficway and moving toward the road or attempting to enter the road, but not on the road **during this vehicle's critical precrash envelope**.

### *Example:*

- *The driver sees the animal approaching the road, swerves to avoid the animal, drives off the road, and hits a mailbox.*

**89 (Animal - Unknown Location)** is used when it was determined the presence or action of an animal was the critical factor that led to this vehicle's collision, but the action of the animal was not known.

### *Example:*

- *It is known that the presence of an animal was the event that made the situation critical for this vehicle; however, whether the animal was approaching the road or already in the road and in the travel path of the vehicle is not known.*

**90 (Object in Road)** is used when a **non-fixed** object (e.g., **garbage can, train, ball**) was present in the road **and in the travel path of this vehicle during this vehicle's critical precrash envelope**. An object is defined as being either fixed or non-fixed (only non-fixed objects are captured in this attribute). "Fixed" objects (trees, poles, fire hydrants, etc.) cannot be in the roadway. ([Precrash General Rule #8](#))

### *Examples:*

- *The driver does not see the garbage can in the vehicle's travel path ahead and strikes the garbage can in the road.*
- *The driver sees the garbage can in the vehicle's travel path ahead, swerves to avoid the garbage can, drives off the road, and hits a mailbox.*
- *The driver does not see the train in the travel path ahead and strikes the train in the crossing.*
- *The driver sees the train in the travel path ahead, swerves to avoid the train, drives off the road, and hits the train outside the trafficway.*

- *The driver sees the train in the travel path ahead, swerves to avoid the train, and strikes a railroad crossing device.*

**91 (Object Approaching Road)** identifies situations where a *non-fixed* object (*e.g., garbage can, train, ball*) was within the trafficway and moving toward the road, but not on the road *during this vehicle's critical precrash envelope*.

*Example:*

- *The driver sees the garbage can rolling toward (approaching) the vehicle's travel path ahead, swerves to avoid the garbage can, drives off the road, and hits a mailbox.*
- *The driver sees the train approaching the travel path ahead, swerves to avoid the train, drives off the road, and hits the train outside the trafficway.*
- *The driver sees the train approaching the travel path ahead, swerves to avoid the train, and strikes a railroad crossing device.*

**92 (Object Unknown Location)** is selected when it was determined the presence or movement of an object was the critical factor that led to this vehicle's collision, but details surrounding the location of the object were not known.

*Example:*

- *It is known that the presence of a garbage can, train, or ball was the event that made the situation critical for this vehicle; however, whether the object was approaching the road or already in the road and in the travel path of the vehicle is not known.*

If there are doubts, unclear, *or unusual* circumstances, see [98 \(Other Critical Precrash Event \[specify:\]\).](#) For example, *an abandoned, driverless motor vehicle in transport was on the roadway in the train crossing when it was struck by a train.*

### Other

This attribute identifies situations where the critical factor leading to the collision for this vehicle was not previously listed.

**98 (Other Critical Precrash Event [Specify:])** is used when a critical factor not previously listed resulted in the collision for this vehicle. Previous impacts in the crash are not considered as "other critical precrash events."

**Examples include:**

- The first harmful event for this vehicle is a [non-collision harmful event](#).
- The vehicle is a driverless motor vehicle in-transport.
- A MVIT that becomes a contact vehicle by being struck by a "load" from another MVIT.
- The vehicle was disabled in a previous crash.
- An in-transport vehicle strikes or is struck by the door of a parked motor vehicle that is opened into the travel lane or some portion of the equipment of the parked motor

vehicle (excluding the primary outline); e.g., extended mirrors used when hauling a camper or trailer. **NOTE:** This should not be used for **loads** of vehicles extending into the travel lane, e.g., attached trailers or oversized cargo. In these cases, the vehicle is **in-transport** and not parked.

- Unintentional Rolling Backward.
- Height Clearance.
- Mechanical problem with no control loss (stopped in the roadway with a stalled engine or broken axle, etc.).
- Vehicle stuck or stranded on the track and is struck by a train.
- This Vehicle is backing into a driveway/parking stall.

(See “[Note: For attributes with “Specify:” designation](#)“ at the beginning of Remarks section for this element.)

### **Unknown:**

**99 (Unknown)** is used when the critical precrash event that resulted in the collision is not known.

### **Consistency Checks [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                                                                             | <b>THEN</b>                                                                                               |
|-----------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| 3B1Q            | CRITICAL EVENT - PRECRASH (EVENT) equals 81 or 82,                                    | at least one PERSON TYPE should equal 05.                                                                 |
| 3B2Q            | CRITICAL EVENT - PRECRASH (EVENT) equals 83 and PRE-IMPACT LOCATION does not equal 4, | at least one PERSON TYPE should equal 04, 06, 07, <b>11, 12, 13</b> , or 19.                              |
| 3B3Q            | CRITICAL EVENT - PRECRASH (EVENT) equals 84 or 85,                                    | at least one PERSON TYPE should equal 04, 06, 07, <b>11, 12, 13</b> , or 19.                              |
| 3B8P            | CRITICAL EVENT - PRECRASH (EVENT) equals 20,                                          | CRASH TYPE for this vehicle should equal 92.                                                              |
| 3D00            | CRASH TYPE equals 20-49, and ATTEMPTED AVOIDANCE MANEUVER equals 00, 01,              | CRITICAL EVENT - PRECRASH (EVENT) should not equal 12-14, 54, <b>62, 63</b> , 66-68, 71-73, or 80-85.     |
| 3D10            | CRASH TYPE equals 50-67, and ATTEMPTED AVOIDANCE MANEUVER equals 00, 01,              | CRITICAL EVENT - PRECRASH (EVENT) should not equal 12-14, 51-53, 60, 61, 65, 66, 70, 71, 80-85, or 87-92. |
| 3D20            | CRASH TYPE equals 14 and ATTEMPTED AVOIDANCE MANEUVER equals 01,                      | CRITICAL EVENT PRECRASH (EVENT) should equal 14.                                                          |
| 3D70            | CRITICAL EVENT - PRECRASH (EVENT) equals 01-04,                                       | CONTRIBUTING CIRCUMSTANCES, MOTOR VEHICLE must not equal 00.                                              |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                         | <b>THEN</b>                                                                                                           |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>3D80</b>     | <b><i>CRITICAL EVENT: PRECRASH (EVENT) equals 08 for this vehicle, and CONDITION (IMPAIRMENT) AT TIME OF CRASH equals 09 for this vehicle's driver, and RELATED FACTORS - PERSON (MV OCCUPANT) LEVEL for this vehicle is not equal 005 for any occupants of this vehicle,</i></b> | <b><i>another CONDITION (IMPAIRMENT) AT TIME OF CRASH for this vehicle's driver should equal 01.</i></b>              |
| <b>3D90</b>     | <b><i>CRASH TYPE equals 68-75,</i></b>                                                                                                                                                                                                                                            | <b><i>CRITICAL EVENT – PRECRASH (EVENT) must not equal 65-68.</i></b>                                                 |
| <b>3E00</b>     | <b><i>CRITICAL EVENT - PRECRASH (EVENT) equals 65-68 or 70-73 for a vehicle involved in the first harmful event,</i></b>                                                                                                                                                          | <b><i>RELATION TO JUNCTION (b) should not equal 01 or 18.</i></b>                                                     |
| <b>3E10</b>     | <b><i>CRITICAL EVENT - PRECRASH (EVENT) equals 15 or 16,</i></b>                                                                                                                                                                                                                  | <b><i>PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should not equal 01.</i></b>                        |
| <b>3E11</b>     | <b><i>PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 01,</i></b>                                                                                                                                                                                              | <b><i>CRITICAL EVENT - PRECRASH (EVENT) should not equal 15 or 16.</i></b>                                            |
| <b>3F00</b>     | <b><i>CRASH TYPE equals 76-85,</i></b>                                                                                                                                                                                                                                            | <b><i>CRITICAL EVENT – PRECRASH (EVENT) must not equal 60-64.</i></b>                                                 |
| <b>42AP</b>     | <b><i>NUMBER OF MOTOR VEHICLES FORMS SUBMITTED equals 001, and RELATION TO TRAFFICWAY equals 02, 04, 06-08, 12, and ATTEMPTED AVOIDANCE MANEUVER equals 00 or 01,</i></b>                                                                                                         | <b><i>CRITICAL EVENT - PRECRASH (EVENT) should equal 01-06, 08-14, or 19.</i></b>                                     |
| <b>671F</b>     | <b><i>the only harmful event in the SEQUENCE OF EVENTS for this vehicle equals 02 or 04,</i></b>                                                                                                                                                                                  | <b><i>CRITICAL EVENT - PRECRASH (EVENT) must equal 98.</i></b>                                                        |
| <b>A091</b>     | <b><i>NUMBER OF VEHICLE FORMS SUBMITTED is greater than one, and CRITICAL EVENT – PRECRASH (EVENT) equals 70-73,</i></b>                                                                                                                                                          | <b><i>TRAFFICWAY DESCRIPTION should equal 0 for at least one other vehicle in the crash.</i></b>                      |
| <b>A41A</b>     | <b><i>FIRST HARMFUL EVENT equals 02, 04, 07, 16, 44, or 54,</i></b>                                                                                                                                                                                                               | <b><i>CRITICAL EVENT - PRECRASH (EVENT) should equal 98 for the vehicles involved in the FIRST HARMFUL EVENT.</i></b> |
| <b>AZ81</b>     | <b><i>PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 15, or CRITICAL EVENT - PRECRASH (EVENT) equals 10 or 11 for this vehicle,</i></b>                                                                                                                       | <b><i>PRE-IMPACT LOCATION should not equal 1 (Stayed in Original Travel Lane) for this vehicle.</i></b>               |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                              | <b>THEN</b>                                                                      |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| AZ2P            | FIRST HARMFUL EVENT does not equal 02-07, 16, 44, 51, 72, and CRITICAL EVENT - PRECRASH (EVENT) equals 14, and ATTEMPTED AVOIDANCE MANEUVER equals 01, | CRASH TYPE must equal 14 for the vehicle involved in the first harmful event.    |
| AZ5P            | CRITICAL EVENT - PRECRASH (EVENT) equals 70-73 for a vehicle involved in the FIRST HARMFUL EVENT,                                                      | RELATION TO JUNCTION (b) should equal 04 or 08.                                  |
| AZBP            | any DRIVER MANEUVERED TO AVOID equals 03,                                                                                                              | CRITICAL EVENT - PRECRASH (EVENT) should equal 87-89.                            |
| AZCP            | any DRIVER MANEUVERED TO AVOID equals 05,                                                                                                              | CRITICAL EVENT - PRECRASH (EVENT) should equal 80-85.                            |
| AZEP            | any DRIVER MANEUVERED TO AVOID equals 01,                                                                                                              | CRITICAL EVENT - PRECRASH (EVENT) should equal 90-92.                            |
| B15P            | CRITICAL EVENT - PRECRASH (EVENT) equals 91, and ATTEMPTED AVOIDANCE MANEUVER equals 00, 01, and the vehicle is involved in the FIRST HARMFUL EVENT,   | CRASH TYPE should equal 15.                                                      |
| B16P            | CRITICAL EVENT - PRECRASH (EVENT) equals 90, and ATTEMPTED AVOIDANCE MANEUVER equals 01, and the vehicle is involved in the FIRST HARMFUL EVENT,       | CRASH TYPE should equal 12 or 15.                                                |
| B17P            | CONDITION (IMPAIRMENT) AT TIME OF CRASH equals 09 for this driver,                                                                                     | CRITICAL EVENT - PRECRASH (EVENT) should not equal 08 for this driver's vehicle. |
| <b>B18P</b>     | <b>CRITICAL EVENT – PRECRASH (EVENT) equals 70-73,</b>                                                                                                 | <b>TRAFFICWAY DESCRIPTION must not equal 0 for this vehicle.</b>                 |
| BZ10            | CRITICAL EVENT - PRECRASH (EVENT) equals 53,                                                                                                           | AREAS OF IMPACT-INITIAL CONTACT POINT should not equal 12 for this vehicle.      |
| BZ20            | CRITICAL EVENT - PRECRASH (EVENT) equals 51, 52,                                                                                                       | AREAS OF IMPACT-INITIAL CONTACT POINT should not equal 06 for this vehicle.      |
| BZ40            | CRITICAL EVENT - PRECRASH (EVENT) equals 01,                                                                                                           | at least one SEQUENCE OF EVENTS must equal 61 for this vehicle.                  |
| BZ50            | CRITICAL EVENT - PRECRASH (EVENT) equals 12, and PRE-IMPACT LOCATION is not equal to 5,                                                                | at least one SEQUENCE OF EVENTS must equal 64 for this vehicle.                  |
| BZ51            | CRITICAL EVENT - PRECRASH (EVENT) equals 80 and PRE-IMPACT LOCATION does not equal 4,                                                                  | at least one PERSON TYPE should equal 5.                                         |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                            | <b>THEN</b>                                                     |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| BZ60            | CRITICAL EVENT - PRECRASH (EVENT) equals 13, and PRE-IMPACT LOCATION is not equal to 5,                                                                              | at least one SEQUENCE OF EVENTS must equal 63 for this vehicle. |
| BZ70            | CRITICAL EVENT - PRECRASH (EVENT) equals 14,                                                                                                                         | at least one SEQUENCE OF EVENTS must equal 71 for this vehicle. |
| FP7F            | UNIT TYPE equals 1, and CRITICAL EVENT - PRECRASH (EVENT) equals blank,                                                                                              | case status is flawed.                                          |
| U682            | UNLIKELY: CRITICAL EVENT: PRECRASH (EVENT) equals 08 for this vehicle and CONDITION (IMPAIRMENT) AT TIME OF CRASH (D23) does not equal 01 for this vehicle's driver. | --                                                              |



## PC20 - Attempted Avoidance Maneuver

**FORMAT:** 2 numeric

**SAS NAME:** Vehicle.P\_CRASH3

**ELEMENT VALUES:**

| Codes | Attributes                                                  |
|-------|-------------------------------------------------------------|
| 00    | <a href="#">No Driver Present/Unknown if Driver Present</a> |
| 01    | <a href="#">No Avoidance Maneuver</a>                       |
| 05    | Releasing Brakes                                            |
| 06    | Steering Left                                               |
| 07    | Steering Right                                              |
| 08    | Braking and Steering Left                                   |
| 09    | Braking and Steering Right                                  |
| 10    | Accelerating                                                |
| 11    | Accelerating and Steering Left                              |
| 12    | Accelerating and Steering Right                             |
| 15    | Braking and Unknown Steering Direction                      |
| 16    | <a href="#">Braking</a>                                     |
| 98    | <a href="#">Other Actions (Specify:)</a>                    |
| 99    | <a href="#">Unknown/Not Reported</a>                        |

**Definition:** This element identifies movements/actions taken by the driver, within a critical crash envelope, in response to a [CRITICAL PRECRASH EVENT](#).

**Remarks:** Attempted avoidance maneuvers are movements/actions taken by the driver, within a critical crash envelope, in response to a Critical Precrash Event. See [Precrash Data Overview](#) for an expanded discussion on precrash definitions. Attempted avoidance maneuvers occur **after** the driver has realization of an impending danger. This element assesses what the driver's action(s) was in response to his/her realization. ***Use the available crash report fields, narrative, and diagram to code the actions taken by the driver in response to the driver's realization of an impending danger (Critical Event) and within the appropriate Critical Crash Envelope (CCE).***

***Currently there are no State crash reports having fields, which by themselves, can be applied to code this element. Some State crash reports do have fields containing relevant information to consider such as Driver Contributing Circumstances, Vehicle Maneuver, Roadway Factors, Avoidance Maneuvers, or Environmental Circumstances. However, the data in these fields will rarely provide all the information needed to code ATTEMPTED AVOIDANCE MANEUVER.***

First determine the [CRITICAL PRECRASH EVENT](#) (for the appropriate Critical Crash Envelope) and select the attribute which best describes the actions taken by the driver in response to that CRITICAL PRECRASH EVENT. Most crashes have only one critical crash envelope and thus only one CRITICAL PRECRASH EVENT; however, multiple critical crash envelopes with their respective Critical Precrash Events, can exist. In the case of multiple critical precrash envelopes, select the attribute which best describes the actions taken by the driver in response to the CRITICAL PRECRASH EVENT, within the appropriate critical crash envelope that occurred just prior to this vehicle's first harmful event.

This element may be used independently: (1) of any maneuvers associated with this driver's Crash Type, and (2) this vehicle's first associated crash event.

When there was a known action (e.g., braking), but you cannot determine whether there was more than one action (e.g., braking and steering left), default to the known action (e.g., braking).

### ***Witness Statements:***

See clarification on the use of information provided by witnesses in section [103. Data Sources](#).

**00 (No Driver Present/Unknown if Driver Present)** is pre-coded for in-transport motor vehicles when the element [DRIVER PRESENCE](#) is coded as [0 \(No Driver Present/Not Applicable\)](#).

**01 (No Avoidance Maneuver)** is selected whenever the driver did not attempt any evasive (pre-impact) maneuvers, i.e., the case material indicate that there was no realization of danger or realization without time/ability to react or there is some indication on a field or within the narrative statements (supported by the diagram if present) that identifies no avoidance maneuver was attempted. **Note: This attribute should not be assessed solely by the diagram.**

***Lack of definitive avoidance information in the report (absence of information) should not be coded as 01 (No Avoidance Maneuver). See [99 \(Unknown/Not Reported\)](#) for absence of information situations.***

***Examples of when 01 (No Avoidance Maneuver) CAN be coded:***

- ***The driver cannot attempt an avoidance maneuver in response to his/her realization of an impending danger because the vehicle is “stopped in traffic” during the entire applicable CCE.***
- ***The case material indicate the driver did not attempt an avoidance maneuver after realization of an impending danger and within the appropriate critical crash envelope because:***
  - ***The driver did not have time to react.***
  - ***The driver was asleep or unconscious.***
  - ***The driver did not see or recognize there was anything to avoid.***

**16 (Braking)** is used when there is indication that the brakes were applied.

**98 (Other Actions, [Specify:])** is used when the police crash report indicates the driver took certain avoidance actions, but none of the specified attributes apply. This value also applies when there are reported movements/actions taken by the driver with no information provided about the

driver's specific actions. (e.g., "The driver of Vehicle 2 attempted to avoid the collision but was unsuccessful").

**\*Note: For attributes with a "Specify:" designation**, a fill-in text box will open in **RBIS**. This text box should be used to provide additional detail about the attribute selection. Please include a specific reason for this selection.

**99 (Unknown/Not Reported)** is used when:

1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material); or
2. a field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material); or
3. police indicate unknown.

**Note:** If a State's crash report manual instructs to leave data blocks blank when there is no avoidance maneuver, then a blank in those data blocks are NOT considered **99 (Unknown/Not Reported)**.

**Consistency Checks** ([See Section 400](#)):

| <b>Error ID</b> | <b>IF</b>                                                                   | <b>THEN</b>                                                                                                                                      |
|-----------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| 39IP            | TRAVEL SPEED is equal to 000 and ATTEMPTED AVOIDANCE MANEUVER equals 01,    | PRE-IMPACT STABILITY must equal 1.                                                                                                               |
| 3BDP            | CRASH TYPE equals 46, 47, and ATTEMPTED AVOIDANCE MANEUVER equals 01 or 99, | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must not equal 01.                                                                   |
| 3BEP            | CRASH TYPE equals 01 or 06, and ATTEMPTED AVOIDANCE MANEUVER equals 01,     | PRE-IMPACT STABILITY should not equal 2-5 or 7.                                                                                                  |
| 3BHP            | ATTEMPTED AVOIDANCE MANEUVER does not equal 05-12, 15, 16, 98,              | PRE-IMPACT STABILITY must not equal 7.                                                                                                           |
| 3C40            | CRASH TYPE equals 46,                                                       | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 06, 15, 16, or ATTEMPTED AVOIDANCE MANEUVER should equal 07, 09, or 12. |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                   | <b>THEN</b>                                                                                                                                      |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| 3C80            | CRASH TYPE equals 47,                                                                                                                                       | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 06, 15, 16, or ATTEMPTED AVOIDANCE MANEUVER should equal 06, 08, or 11. |
| 3D00            | CRASH TYPE equals 20-49, and ATTEMPTED AVOIDANCE MANEUVER equals 00, 01,                                                                                    | CRITICAL EVENT - PRECRASH (EVENT) should not equal 12-14, 54, <b>62, 63</b> , 66-68, 71-73, or 80-85.                                            |
| 3D10            | CRASH TYPE equals 50-67, and ATTEMPTED AVOIDANCE MANEUVER equals 00, 01,                                                                                    | CRITICAL EVENT - PRECRASH (EVENT) should not equal 12-14, 51-53, 60, 61, 65, 66, 70, 71, 80-85, or 87-92.                                        |
| 3D20            | CRASH TYPE equals 14 and ATTEMPTED AVOIDANCE MANEUVER equals 01,                                                                                            | CRITICAL EVENT PRECRASH (EVENT) should equal 14.                                                                                                 |
| 40IP            | TRAVEL SPEED is equal to 000,                                                                                                                               | ATTEMPTED AVOIDANCE MANEUVER should equal <b>00 or 01</b> .                                                                                      |
| 42AP            | NUMBER OF MOTOR VEHICLES FORMS SUBMITTED equals 001, and RELATION TO TRAFFICWAY equals 02, 04, 06-08, 12, and ATTEMPTED AVOIDANCE MANEUVER equals 00 or 01, | CRITICAL EVENT - PRECRASH (EVENT) should equal 01-06, 08-14, or 19.                                                                              |
| <b>9L0P</b>     | <b>any RELATED FACTORS-DRIVER LEVEL equals 010,</b>                                                                                                         | <b>ATTEMPTED AVOIDANCE MANEUVER must equal 01.</b>                                                                                               |
| AZ2P            | FIRST HARMFUL EVENT does not equal 02-07, 16, 44, 51, 72, and CRITICAL EVENT-PRECRASH (EVENT) equals 14, and ATTEMPTED AVOIDANCE MANEUVER equals 01,        | CRASH TYPE must equal 14 for the vehicle involved in the first harmful event.                                                                    |
| AZ30            | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 00,                                                                                      | ATTEMPTED AVOIDANCE MANEUVER must equal 00.                                                                                                      |
| B10P            | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) does not equal 17, and ATTEMPTED AVOIDANCE MANEUVER equals 01,                                  | DRIVER MANEUVERED TO AVOID should equal 00.                                                                                                      |
| B15P            | CRITICAL EVENT-PRECRASH (EVENT) equals 91, and ATTEMPTED AVOIDANCE MANEUVER equals 00, 01 and the vehicle is involved in the FIRST HARMFUL EVENT,           | CRASH TYPE should equal 15.                                                                                                                      |
| B16P            | CRITICAL EVENT-PRECRASH (EVENT) equals 90, and ATTEMPTED AVOIDANCE MANEUVER equals 01, and the vehicle is involved in the FIRST HARMFUL EVENT,              | CRASH TYPE should equal 12 or 15.                                                                                                                |

| <b>Error ID</b> | <b>IF</b>                                                                             | <b>THEN</b>                                                                |
|-----------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| V533            | CRASH TYPE equals 03, 08, 38, 40, 58, or 60,                                          | ATTEMPTED AVOIDANCE MANEUVER must not equal 00 or 01.                      |
| <b>V534</b>     | <b><i>CRASH TYPE equals 02 or 07, and ATTEMPTED AVOIDANCE MANEUVER equals 01,</i></b> | <b><i>PRE-IMPACT STABILITY should not equal 09.</i></b>                    |
| V535            | ATTEMPTED AVOIDANCE MANEUVER equals 00,                                               | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 00. |
| V59Q            | ATTEMPTED AVOIDANCE MANEUVER equals 99,                                               | DRIVER MANEUVERED TO AVOID should equal 00, 98, or 99.                     |
| VH10            | PRE-IMPACT LOCATION equals 0,                                                         | ATTEMPTED AVOIDANCE MANEUVER must equal 00.                                |
| VH20            | ATTEMPTED AVOIDANCE MANEUVER equals 00,                                               | PRE-IMPACT LOCATION must equal 0.                                          |

## PC21 - Pre-Impact Stability

**FORMAT:** 1 numeric

**SAS NAME:** Vehicle.PCRASH4

**ELEMENT VALUES:**

| Codes | Attributes                                                            |
|-------|-----------------------------------------------------------------------|
| 0     | <a href="#">No Driver Present/Unknown if Driver Present</a>           |
| 1     | <a href="#">Tracking</a>                                              |
| 2     | <a href="#">Skidding Longitudinally Rotation Less Than 30 Degrees</a> |
| 3     | <a href="#">Skidding Laterally Clockwise Rotation</a>                 |
| 4     | <a href="#">Skidding Laterally Counter-Clockwise Rotation</a>         |
| 5     | <a href="#">Skidding Laterally, Rotation Direction Unknown</a>        |
| 7     | <a href="#">Other Vehicle Loss-of-Control (Specify:)</a>              |
| 9     | <a href="#">Precrash Stability Unknown</a>                            |

**Definition:** This element assesses the stability of the vehicle **after** the critical event, but **before** the impact.

**Remarks:** The stability of the vehicle **prior** to an avoidance action is **not** considered except in the following situation:

A vehicle that is out of control (e.g., yawing clockwise) prior to an avoidance maneuver is coded as [7 \(Other Vehicle Loss-of-Control \[Specify:\]\)](#) only if an avoidance action was taken in response to an impending danger.

Thus, this element focuses upon this vehicle's dynamics **after the** [CRITICAL PRECRASH EVENT](#).

**0 (No Driver Present/Unknown if Driver Present)** is pre-coded for in-transport motor vehicles when the element [DRIVER PRESENCE](#) is coded as **0 (No Driver Present/Not Applicable)**.

**1 (Tracking)** is used when there is no brake lockup and the vehicle continued along its intended path without rotation. Stopped, slowing, turning, or accelerating to avoid a rear-end collision are examples. Only if the case material include enough detail to determine all of the items from [Precrash General Rule #10](#), code **1 (Tracking)** can be applied.

Even when the officer does not specifically mention "skidding" or "braking," narrative statements such as "the vehicle began to rotate," "the back end slid out," "the vehicle was sliding," etc., are valid for selecting attributes 2-5.

**2 (Skidding Longitudinally Rotation Less Than 30 degrees)** is selected when there is brake lockup or whenever tire marks are apparent without brake lockup (braking or non-braking) and rotation is less than 30 degrees clockwise or counterclockwise. If there is no information to support rotation greater than or equal to 30 degrees, then use this attribute. Also use this attribute when there is indication in the case material that the vehicle was not tracking (e.g., sliding) but tire marks are not present, (wet, ice, snow covered, etc.).

**3 (Skidding Laterally Clockwise Rotation)** is selected when the vehicle rotates clockwise, relative to the driver's seating position. The vehicle must rotate 30 degrees or more. This attribute also applies when the driver attempts a steering input (e.g., steers right), but the vehicle rotates clockwise.

**4 (Skidding Laterally Counter-Clockwise Rotation)** is selected when the vehicle rotates counterclockwise, relative to the driver's seating position. The vehicle must rotate 30 degrees or more. This attribute also applies when the driver attempts a steering input (e.g., swerves left), but the vehicle rotates counterclockwise.

**5 (Skidding Laterally, Rotation Direction Unknown)** is used when the vehicle rotates 30 degrees or more, but it cannot be determined from the case material whether it was clockwise or counterclockwise rotation.

**7 (Other Vehicle Loss-of-Control [Specify:])** is selected when a driver loses control of a vehicle prior to the critical event.

**\*Note: For attributes with a "Specify:" designation,** a fill-in text box will open in **RBIS**. This text box should be used to provide additional detail about the attribute selection. Please include a specific reason for this selection.

**9 (Precrash Stability Unknown)** is selected when the stability of the vehicle cannot be determined. If the case material does not provide enough information (e.g., in the diagram, narrative, etc.) to determine precrash stability, code **9 (Precrash Stability Unknown)**.

**Consistency Checks** ([See Section 400](#)):

| <b>Error ID</b> | <b>IF</b>                                                                      | <b>THEN</b>                                                                |
|-----------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| 39IP            | TRAVEL SPEED is equal to 000 and ATTEMPTED AVOIDANCE MANEUVER equals 01,       | PRE-IMPACT STABILITY must equal 1.                                         |
| 3BEP            | CRASH TYPE equals 01 or 06, and ATTEMPTED AVOIDANCE MANEUVER equals 01,        | PRE-IMPACT STABILITY should not equal 2-5 or 7.                            |
| 3BHP            | ATTEMPTED AVOIDANCE MANEUVER does not equal 05-12, 15, 16, 98,                 | PRE-IMPACT STABILITY must not equal 7.                                     |
| 3D50            | PRE-IMPACT STABILITY equals 1,                                                 | CRASH TYPE should not equal 02, 07, 34, 36, 54, or 56.                     |
| AZ50            | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 00,         | PRE-IMPACT STABILITY must equal 0.                                         |
| AZ60            | PRE-IMPACT STABILITY equals 0,                                                 | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 00. |
| <b>V534</b>     | <b>CRASH TYPE equals 02 or 07, and ATTEMPTED AVOIDANCE MANEUVER equals 01,</b> | <b>PRE-IMPACT STABILITY should not equal 09.</b>                           |

| <b>Error ID</b> | <b>IF</b>                               | <b>THEN</b>                                   |
|-----------------|-----------------------------------------|-----------------------------------------------|
| VB60            | PRE-IMPACT STABILITY equals 0,          | PRE-IMPACT LOCATION must equal 0.             |
| VB70            | PRE-IMPACT STABILITY is not equal to 0, | PRE-IMPACT LOCATION must not equal 0.         |
| VBA0            | PRE-IMPACT LOCATION equals 1,           | PRE-IMPACT STABILITY should equal 1, 2, or 9. |



## PC22 - Pre-Impact Location

**FORMAT:** 1 numeric

**SAS NAME:** Vehicle.PCRASH5

**ELEMENT VALUES:**

| Codes | Attributes                                                                |
|-------|---------------------------------------------------------------------------|
| 0     | <a href="#">No Driver Present/Unknown if Driver Present</a>               |
| 1     | <a href="#">Stayed in Original Travel Lane</a>                            |
| 2     | <a href="#">Stayed on Roadway, but Left Original Travel Lane</a>          |
| 3     | <a href="#">Stayed on Roadway, Not Known if Left Original Travel Lane</a> |
| 4     | <a href="#">Departed Roadway</a>                                          |
| 5     | <a href="#">Remained off Roadway</a>                                      |
| 6     | <a href="#">Returned to Roadway</a>                                       |
| 7     | <a href="#">Entered Roadway</a>                                           |
| 9     | <a href="#">Unknown</a>                                                   |

**Definition:** This element assesses the location of the vehicle after the critical event, and immediately before the First Harmful Event for this vehicle.

**Remarks:** When determining Pre-Impact Location for crashes occurring in intersections, a vehicle's "travel lane" extends through the intersection area even if no lane line markings are present within the intersection. Additionally, for a vehicle that is turning, its original travel lane extends through the junction to the lane or driveway access into which it is turning.

Select the attribute that best describes the location of the vehicle (i.e., perimeter of the vehicle from the case diagram).

**0 (No Driver Present/Unknown if Driver Present)** is used when there is no driver in this vehicle.

**1 (Stayed in Original Travel Lane)** is selected when the vehicle remained within the boundaries of its initial travel lane.

**2 (Stayed on Roadway but Left Original Travel Lane)** is selected when the perimeter of the vehicle departed its initial travel lane; however, the vehicle remained within the boundaries of the roadway (travel lanes).

**3 (Stayed on Roadway, Not Known if Left Original Travel Lane)** is selected when it cannot be ascertained whether the vehicle remained within its initial travel lane. To use this attribute, the vehicle must have remained within the boundaries of the roadway.

**4 (Departed Roadway)** is selected when the vehicle departed the roadway as a result of a precrash motion. The roadway departure must not be related to the post-impact trajectory of a crash within the roadway. Use this attribute for vehicles crossing a median into oncoming traffic.

This attribute is selected when any part of the vehicle departed the roadway edge. (See the coding of Pre-Impact Location in [Example 9](#) under the [Precrash Data Overview Examples](#).)

**5 (Remained off Roadway)** the precrash motion occurred outside the boundaries of the roadway. This includes traveling on the shoulders, within the median, on the roadside, or off the trafficway.

**6 (Returned to Roadway)** is selected when the vehicle was on the roadway, went off the roadway and then returned to the same roadway during precrash motion.

**7 (Entered Roadway)** is selected when the vehicle was not previously on the roadway and then the vehicle enters the roadway during precrash motion.

**9 (Unknown)** the precrash motion of the vehicle cannot be determined.

**Consistency Checks** ([See Section 400](#)):

| Error ID    | IF                                                                                                                                                   | THEN                                                                                             |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| 3B2Q        | CRITICAL EVENT - PRECRASH (EVENT) equals 83 and PRE-IMPACT LOCATION does not equal 4,                                                                | at least one PERSON TYPE should equal 04, 06, 07, <b>11, 12, 13</b> , or 19.                     |
| AZ70        | PRE-IMPACT LOCATION equals 0,                                                                                                                        | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 00.                       |
| AZ80        | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 00,                                                                               | PRE-IMPACT LOCATION must equal 0.                                                                |
| <b>AZ81</b> | <b>PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 15, or CRITICAL EVENT - PRECRASH (EVENT) equals 10 or 11 for this vehicle,</b> | <b>PRE-IMPACT LOCATION should not equal 1 (Stayed in Original Travel Lane) for this vehicle.</b> |
| BZ50        | CRITICAL EVENT - PRECRASH (EVENT) equals 12, and PRE-IMPACT LOCATION is not equal to 5,                                                              | at least one SEQUENCE OF EVENTS must equal 64 for this vehicle.                                  |
| BZ51        | CRITICAL EVENT - PRECRASH (EVENT) equals 80 and PRE-IMPACT LOCATION does not equal 4,                                                                | at least one PERSON TYPE should equal 5.                                                         |
| BZ60        | CRITICAL EVENT - PRECRASH (EVENT) equals 13, and PRE-IMPACT LOCATION is not equal to 5,                                                              | at least one SEQUENCE OF EVENTS must equal 63 for this vehicle.                                  |
| BZ90        | CRASH TYPE equals 01-05, and PRE-IMPACT LOCATION is not equal to 0 or 5,                                                                             | at least one SEQUENCE OF EVENTS prior to the FIRST HARMFUL EVENT must equal 63.                  |
| BZ91        | CRASH TYPE equals 06-10, and PRE-IMPACT LOCATION is not equal to 0 or 5,                                                                             | at least one SEQUENCE OF EVENTS prior to the FIRST HARMFUL EVENT must equal 64.                  |

| Error ID    | IF                                                                                                                                    | THEN                                                                                                  |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>BZ93</b> | <b><i>PRE-IMPACT LOCATION equals 4,</i></b>                                                                                           | <b><i>at least one SEQUENCE OF EVENTS for this vehicle must equal 63, 64, 71, or 79.</i></b>          |
| PC20        | RELATION TO TRAFFICWAY equals 02-08, 10, or 12,                                                                                       | PRE-IMPACT LOCATION of the vehicle(s) involved in the FIRST HARMFUL EVENT should equal 0, 4, 5, or 9. |
| PC30        | PRE-IMPACT LOCATION for a vehicle involved in the first harmful event equals 4, 5, and RELATION TO JUNCTION (b) does not equal 04,05, | RELATION TO TRAFFICWAY should not equal 01 or 11.                                                     |
| PC40        | PRE-IMPACT LOCATION for a vehicle involved in the first harmful event equals 1-3, 6,                                                  | RELATION TO TRAFFICWAY should equal 01 or 11.                                                         |
| PC50        | PRE-IMPACT LOCATION equals 2,                                                                                                         | TOTAL LANES IN ROADWAY should not equal 1.                                                            |
| VB60        | PRE-IMPACT STABILITY equals 0,                                                                                                        | PRE-IMPACT LOCATION must equal 0.                                                                     |
| VB70        | PRE-IMPACT STABILITY is not equal to 0,                                                                                               | PRE-IMPACT LOCATION must not equal 0.                                                                 |
| VBA0        | PRE-IMPACT LOCATION equals 1,                                                                                                         | PRE-IMPACT STABILITY should equal 1, 2, or 9.                                                         |
| VH10        | PRE-IMPACT LOCATION equals 0,                                                                                                         | ATTEMPTED AVOIDANCE MANEUVER must equal 00.                                                           |
| VH20        | ATTEMPTED AVOIDANCE MANEUVER equals 00,                                                                                               | PRE-IMPACT LOCATION must equal 0.                                                                     |

## PC23 - Crash Type

**FORMAT:** 2 numeric

**SAS NAME:** Vehicle.ACC\_TYPE

**ELEMENT VALUES:**

**As assigned by the selection on the next screens**

| Codes | Attributes                       |
|-------|----------------------------------|
| 00    | <a href="#">No Impact</a>        |
| 01-93 | Crash Types                      |
| 98    | <a href="#">Other Crash Type</a> |
| 99    | <a href="#">Unknown</a>          |

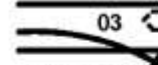
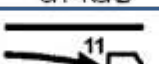
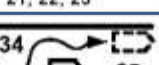
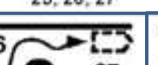
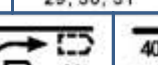
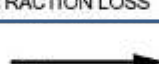
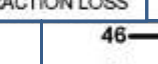
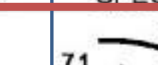
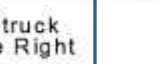
**Definition:** This element describes the type of crash this in-transport vehicle was involved in based on the [FIRST HARMFUL EVENT](#) and the precrash circumstances.

**Remarks:** The CRASH TYPE is a numeric value assigned by selecting the **Crash Category** and the **Crash Configuration** on the next screens/pages. The number can be directly entered or edited here; however, the two-step process of selecting the Crash Category and Crash Configuration is preferred to visualize the crash scenario.

The FIRST HARMFUL EVENT may include a collision between a vehicle and some object, accompanied by property damage or human injury. The object may be another vehicle, a person, an animal, a fixed object, the road surface, or the ground. If the first collision is a rollover, the impact is with the ground or road surface. The collision may also involve plowing into soft ground, if severe vehicle deceleration results in damage or injury. A road departure without damage or injury is **not** defined as a harmful event.

Please see [The following crash types require clarification](#) for guidance on a few specific crash types.

**Crash Type Table**

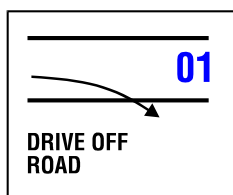
| Category                                  | Configuration                 | CRASH TYPES (includes intent)                                                                                                        |                                                                                                                                          |                                                                                                                                |                                                                                                                       |                                                                    |
|-------------------------------------------|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| I<br>Single Driver                        | A<br>Right Roadside Departure |  01<br>DRIVE OFF ROAD                               |  02<br>CONTROL/ TRACTION LOSS                           |  03<br>AVOID COLLISION WITH VEH., PED., ANIM. | 04<br>SPECIFICS OTHER                                                                                                 | 05<br>SPECIFICS UNKNOWN                                            |
|                                           | B<br>Left Roadside Departure  |  06<br>DRIVE OFF ROAD                               |  07<br>CONTROL/ TRACTION LOSS                           |  08<br>AVOID COLLISION WITH VEH., PED., ANIM. | 09<br>SPECIFICS OTHER                                                                                                 | 10<br>SPECIFICS UNKNOWN                                            |
|                                           | C<br>Forward Impact           |  11<br>PARKED VEH.                                  |  12<br>STA OBJECT                                       |  13<br>PEDESTRIAN/ ANIMAL                     |  14<br>END DEPARTURE                 | 15<br>SPECIFICS OTHER<br>16<br>SPECIFICS UNKNOWN                   |
| II<br>Same Trafficway Same Direction      | D<br>Rear End                 |  20<br>STOPPED 21, 22, 23                           |  24<br>SLOWER 25, 26, 27                                |  28<br>DECEL. 29, 30, 31                      | (EACH - 32)<br>SPECIFICS OTHER                                                                                        | (EACH - 33)<br>SPECIFICS UNKNOWN                                   |
|                                           | E<br>Forward Impact           |  34<br>CONTROL/ TRACTION LOSS                       |  36<br>CONTROL/ TRACTION LOSS                           |  38<br>AVOID COLLISION WITH VEH.              |  40<br>AVOID COLLISION WITH OBJECT   | (EACH - 42)<br>SPECIFICS OTHER<br>(EACH - 43)<br>SPECIFICS UNKNOWN |
|                                           | F<br>Angle, Sideswipe         |  44<br>45                                          |  46<br>45<br>47                                        | (EACH - 48)<br>SPECIFICS OTHER                                                                                                 | (EACH - 49)<br>SPECIFICS UNKNOWN                                                                                      |                                                                    |
| III<br>Same Trafficway Opposite Direction | G<br>Head-On                  |  50<br>51                                         | (EACH - 52)<br>SPECIFICS OTHER                                                                                                           | (EACH - 53)<br>SPECIFICS UNKNOWN                                                                                               |                                                                                                                       |                                                                    |
|                                           | H<br>Forward Impact           |  54<br>CONTROL/ TRACTION LOSS                     |  56<br>CONTROL/ TRACTION LOSS                         |  58<br>AVOID COLLISION WITH VEH.            |  60<br>AVOID COLLISION WITH OBJECT | (EACH - 62)<br>SPECIFICS OTHER<br>(EACH - 63)<br>SPECIFICS UNKNOWN |
|                                           | I<br>Angle, Sideswipe         |  64<br>65<br>Lateral Moves                        | (EACH - 66)<br>SPECIFICS OTHER                                                                                                           | (EACH - 67)<br>SPECIFICS UNKNOWN                                                                                               |                                                                                                                       |                                                                    |
| IV<br>Change Trafficway Vehicle Turning   | J<br>Turn Across Path         |  68<br>69<br>Initial Opposite Directions          |  70<br>71<br>72<br>73<br>Initial Same Directions      | (EACH - 74)<br>SPECIFICS OTHER                                                                                                 | (EACH - 75)<br>SPECIFICS UNKNOWN                                                                                      |                                                                    |
|                                           | K<br>Turn Into Path           |  76<br>77<br>78<br>79<br>Turn Into Same Direction |  80<br>81<br>82<br>83<br>Turn Into Opposite Direction | (EACH - 84)<br>SPECIFICS OTHER                                                                                                 | (EACH - 85)<br>SPECIFICS UNKNOWN                                                                                      |                                                                    |
| V<br>Intersect Paths                      | L<br>Straight Paths           |  86<br>87<br>Striking from the Right              |  88<br>89<br>Striking from the Left                   | (EACH - 90)<br>SPECIFICS OTHER                                                                                                 | (EACH - 91)<br>SPECIFICS UNKNOWN                                                                                      |                                                                    |
| VI<br>Misc.                               | M<br>Backing, Etc.            |  92<br>93<br>Backing Veh. or Object               |                                                                                                                                          | 98 OTHER CRASH TYPE<br>99 UNKNOWN CRASH TYPE<br>00 NO IMPACT                                                                   |                                                                                                                       |                                                                    |

## **Category I. Single Driver**

### **Configuration A. Right Roadside Departure**

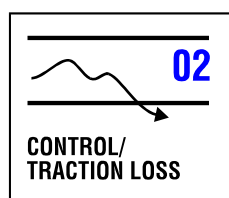
The vehicle departed the right side of the road with the first harmful event occurring off the road.

#### **01 (Right Roadside Departure: Drive Off Road)**



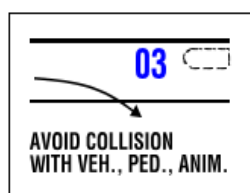
Use **Right Roadside Departure: Drive Off Road** when the vehicle departed the road under a controlled situation (the driver was distracted, fell asleep, intentionally departed, etc.).

#### **02 (Right Roadside Departure: Control/Traction Loss)**



Use **Right Roadside Departure: Control/Traction** when there is evidence that the vehicle lost traction or “got away” from the driver in some other way (e.g., the vehicle spun off the road as a result of surface conditions, oversteer phenomena, or mechanical malfunctions). If doubt exists, use [01 \(Right Roadside Departure, Drive Off Road\)](#). If the control/traction loss occurs as a result of an avoidance of something in the road, see remarks for CRASH TYPE [03 \(Right Roadside Departure: Avoid Collision with Vehicle, Pedestrian, Animal\)](#) and [04 \(Right Roadside Departure: Specifics Other\)](#) to establish which attribute applies.

#### **03 (Right Roadside Departure: Avoid Collision with Vehicle, Pedestrian, Animal)**



Use **Right Roadside Departure: Avoid Collision with Vehicle, Pedestrian, Animal** when the vehicle departed the road to avoid something on the road. Phantom vehicle situations, pedestrians, bicyclists, and other cyclists and non-motorists are included here.

#### 04 (*Right Roadside Departure: Specifics Other*)



Use **Right Roadside Departure: Specifics Other** if the vehicle departed the road to avoid something on the road other than a vehicle, pedestrian, or animal. Also use “Specifics Other” for crashes involving a driverless in-transport vehicle.

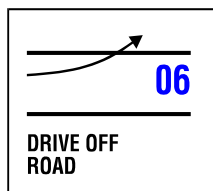
#### 05 (*Right Roadside Departure: Specifics Unknown*)



Use **Right Roadside Departure: Specifics Unknown** if the vehicle departed the right side of the road for unknown reasons.

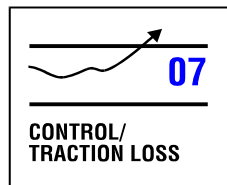
#### Configuration B. Left Roadside Departure

##### 06 (*Left Roadside Departure: Drive Off Road*)



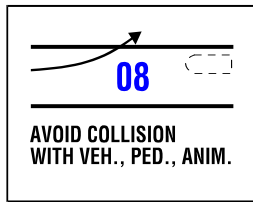
Use **Left Roadside Departure: Drive Off Road** when the vehicle departed the road under a controlled situation (the driver was distracted, fell asleep, intentionally departed, etc.).

##### 07 (*Left Roadside Departure: Control/Traction Loss*)



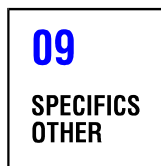
Use **Left Roadside Departure: Control/Traction Loss** if there is evidence that the vehicle lost traction or “got away” from the driver in some other way (e.g., the vehicle spun off the road as a result of surface conditions, oversteer phenomena, or mechanical malfunctions.) If doubt exists, use [06 \(Left Roadside Departure: Drive Off Road\)](#). If the control/traction loss occurs as a result of an avoidance of something in the road, see remarks for CRASH TYPE [08 \(Left Roadside Departure: Avoid Collision with Vehicle, Pedestrian, Animal\)](#) and [09 \(Left Roadside Departure: Specifics Other\)](#) to establish which attribute applies.

### **08 (Left Roadside Departure: Avoid Collision with Vehicle, Pedestrian, Animal)**



Use **Left Roadside Departure: Avoid Collision with Vehicle, Pedestrian, Animal** when the vehicle departed the road to avoid something on the road. Phantom vehicle situations, pedestrians, bicyclists, and other cyclists and non-motorists are included here.

### **09 (Left Roadside Departure: Specifics Other)**



Use **Left Roadside Departure: Specifics Other** if the vehicle departed the road to avoid something on the road other than a vehicle, pedestrian, or animal. Also, use “Specifics Other” for crashes involving a driverless in-transport vehicle.

### **10 (Left Roadside Departure: Specifics Unknown)**

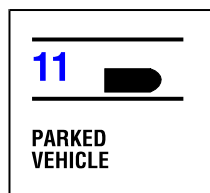


Use **Left Roadside Departure: Specifics Unknown** if the vehicle departed the left side of the road for unknown reasons.

### **Configuration C. Forward Impact**

The vehicle struck an object on the road or off the end of a trafficway while moving forward. Vehicle plane of contact is NOT a consideration.

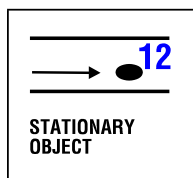
### **11 (Forward Impact: Parked Vehicle)**



Use **Forward Impact: Parked Vehicle** if the crash involves an impact with a parked vehicle anywhere on the road while moving forward. Vehicle plane of contact is NOT a consideration. For cases involving a parked vehicle opening a door into moving traffic or extended mirrors into the travel lane use [15 \(Forward Impact: Specifics Other\)](#).

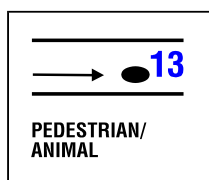


### 12 (*Forward Impact: Stationary Object*)



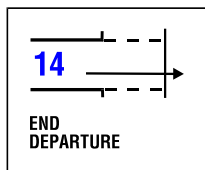
Use **Forward Impact: Stationary Object** if the crash involves an impact with a stationary object anywhere on the road while moving forward. Vehicle plane of contact is NOT a consideration. Use this attribute for cases involving a vehicle that strikes a working motor vehicle that is stationary on the road. For vehicles striking moving working motor vehicles actively performing their task, see [15 \(Forward Impact: Specifics Other\)](#).

### 13 (*Forward Impact: Pedestrian/Animal*)



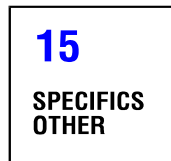
Use **Forward Impact: Pedestrian/Animal** if the first harmful event involves an impact with a pedestrian or animal anywhere on the road while moving forward. Pedestrians, bicyclists, and other cyclists and non-motorists are included here. Vehicle plane of contact is NOT a consideration. However, if a vehicle is backing up when it contacts a non-motorist select [CRASH TYPE 92 \(Backing, Etc.: Backing Vehicle\)](#).

### 14 (*Forward Impact: End Departure*)



Use **Forward Impact: End Departure** when the vehicle ran off the end of the road and crashed into something while moving forward. Vehicle plane of contact is NOT a consideration.

### 15 (*Forward Impact: Specifics Other*)



Use **Forward Impact: Specifics Other** for impacted (striking or struck) trains and non-stationary objects anywhere on the road while moving forward. Vehicle plane of contact is NOT a consideration. Also use "Specifics Other" for crashes involving a driverless in-transport vehicle or for vehicles striking working motor vehicles such as snow plows, street sweepers, etc. in the act of performing their task (for vehicles striking stationary working motor vehicles in the road, see [12 \(Forward Impact: Stationary Object\)](#)). Use this attribute for cases involving a parked

vehicle opening a door into moving traffic, extended mirrors into the travel lane, or an object hanging over the road.

### **16 (Forward Impact: Specifics Unknown)**



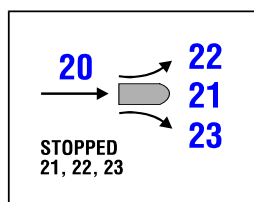
Use **Forward Impact: Specifics Unknown** when the case material indicate a single driver was involved in a forward impact collision, but no further classification is possible. Vehicle plane of contact is NOT a consideration.

## **Category II. Same Trafficway, Same Direction**

### **Configuration D. Rear-End**

The front of the overtaking vehicle impacted the rear of the other vehicle. Note, even if the rear-impacted vehicle had started to make a turn, code here (not in Category IV - Change in Trafficway, Vehicle Turning).

### **20 (Rear-End: Stopped)**



Use **Rear-End: Stopped** for a vehicle that impacts another vehicle from the rear when the impacted vehicle was stopped in the trafficway.

### **21 (Rear-End: Stopped, Straight)**

Use **Rear-End: Stopped, Straight** for a rear-impacted vehicle that was stopped in the trafficway and was intending to proceed straight ahead.

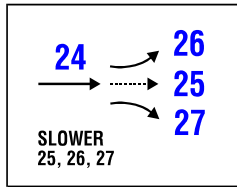
### **22 (Rear-End: Stopped, Left)**

Use **Rear-End: Stopped, Left** for a rear-impacted vehicle that was stopped in the trafficway, intending to make a left turn.

### **23 (Rear-End: Stopped, Right)**

Use **Rear-End: Stopped, Right** for a rear-impacted vehicle that was stopped in the trafficway, intending to make a right turn.

#### **24 (Rear-End: Slower)**



Use **Rear-End: Slower** for a vehicle that impacts another vehicle from the rear when the impacted vehicle was going slower than the striking vehicle.

#### **25 (Rear-End: Slower, Going Straight)**

Use **Rear-End: Slower, Going Straight** for a rear-impacted vehicle that was going slower than the other vehicle while proceeding straight ahead.

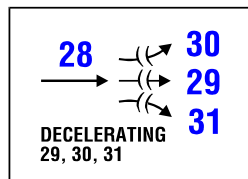
#### **26 (Rear-End: Slower, Going Left)**

Use **Rear-End: Slower, Going Left** for a rear-impacted vehicle that was going slower than the other vehicle while intending to turn left.

#### **27 (Rear-End: Slower, Going Right)**

Use **Rear-End: Slower, Going Right** for a rear-impacted vehicle that was going slower than the other vehicle while intending to turn right.

#### **28 (Rear-End: Decelerating (Slowing))**



Use **Rear-End: Decelerating (Slowing)** for a vehicle that impacts another vehicle from the rear when the impacted vehicle was slowing down.

#### **29 (Rear-End: Decelerating (Slowing), Going Straight)**

Use **Rear-End: Decelerating (Slowing), Going Straight** for a rear-impacted vehicle that was slowing down while proceeding straight ahead.

#### **30 (Rear-End: Decelerating (Slowing), Going Left)**

Use **Rear-End: Decelerating (Slowing), Going Left** for a rear-impacted vehicle that was slowing down while intending to turn left.

#### **31 (Rear-End: Decelerating (Slowing), Going Right)**

Use **Rear-End: Decelerating (Slowing), Going Right** for a rear-impacted vehicle that was slowing down while intending to turn right.

### 32 (*Rear-End: Specifics Other*)

EACH: **32**  
SPECIFICS  
OTHER

Use **Rear-End: Specifics Other** for rear-end collisions that cannot be described in “20-31.” Enter “Specifics Other” for crashes involving a driverless in-transport vehicle.

### 33 (*Rear-End: Specifics Unknown*)

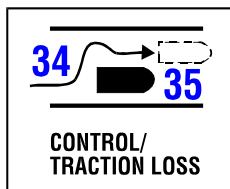
EACH: **33**  
SPECIFICS  
UNKNOWN

Use **Rear-End: Specifics Unknown** when the case material indicate a rear-end collision occurred, but no further classification is possible.

### Configuration E. Forward Impact

The front of the overtaking vehicle impacted the rear of the other vehicle, following a steering maneuver around a noninvolved vehicle or object.

### 34 (*Forward Impact: Control/Traction Loss*)

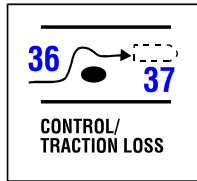


Use **Forward Impact: Control/Traction Loss** for a collision in which a vehicle’s frontal area impacts another vehicle due to loss of control or traction (during a maneuver to avoid a collision with a non-involved vehicle) while both are traveling on the same trafficway in the same direction.

### 35 (*Forward Impact: Control/Traction Loss*)

Use **Forward Impact: Control/Traction Loss** for a vehicle that is impacted by the frontal area of another vehicle due to loss of control or traction (during a maneuver to avoid a collision with a non-involved vehicle) while both are traveling on the same trafficway in the same direction.

### **36 (Forward Impact: Control/Traction Loss)**

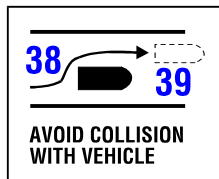


Use **Forward Impact: Control/Traction Loss** for a collision in which a vehicle's frontal area impacts another vehicle due to loss of control or traction (during a maneuver to avoid a collision with a non-fixed object (e.g., garbage can, person, animal, etc.) in the Road) while both are traveling on the same trafficway in the same direction.

### **37 (Forward Impact: Control/Traction Loss)**

Use **Forward Impact: Control/Traction Loss** for a vehicle that is impacted by the frontal area of another vehicle due to loss of control or traction (during a maneuver to avoid a collision with a non-fixed object (garbage can, person, animal, etc.) in the Road) while both are traveling on the same trafficway in the same direction.

### **38 (Forward Impact: Avoid Collision with Vehicle)**

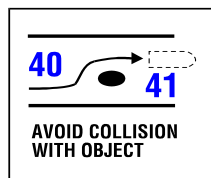


Use **Forward Impact: Avoid Collision with Vehicle** for a vehicle that struck the rear of another vehicle with its front plane while maneuvering to avoid collision with a non-involved vehicle, when loss of control or traction was not a factor, and both were traveling on the same trafficway, in the same direction.

### **39 (Forward Impact: Avoid Collision with Vehicle)**

Use **Forward Impact: Avoid Collision with Vehicle** for a vehicle that was impacted by the frontal area of another vehicle that was maneuvering to avoid a collision with a non-involved vehicle, when loss of control or traction was not a factor, and both were traveling on the same trafficway, in the same direction.

### **40 (Forward Impact: Avoid Collision with Object)**



Use **Forward Impact: Avoid Collision with Object** for a vehicle that struck the rear of another vehicle with its front plane while maneuvering to avoid a collision with a non-fixed object (garbage can, person, animal, etc.) in the road, when loss of control or traction was not a factor, and both were traveling on the same trafficway, in the same direction.

#### **41 (Forward Impact: Avoid Collision with Object)**

Use **Forward Impact: Avoid Collision with Object** for a vehicle that was impacted by the frontal area of another vehicle that was maneuvering to avoid a collision with a non-fixed object (garbage can, person, animal, etc.) in the road, when loss of control or traction was not a factor, and both were traveling on the same trafficway, in the same direction.

#### **42 (Forward Impact: Specifics Other)**

|                                                     |
|-----------------------------------------------------|
| <b>EACH: 42</b><br><b>SPECIFICS</b><br><b>OTHER</b> |
|-----------------------------------------------------|

Use **Forward Impact: Specifics Other** (for both vehicles) for a forward impact collision that occurred while both vehicles were traveling on the same trafficway, in the same direction, and the striking vehicle was attempting to avoid a vehicle or an object that cannot be described by “34 - 40.”

Also, use this code for crashes involving a driverless in-transport vehicle that would otherwise qualify for this configuration.

#### **43 (Forward Impact: Specifics Unknown)**

|                                                       |
|-------------------------------------------------------|
| <b>EACH: 43</b><br><b>SPECIFICS</b><br><b>UNKNOWN</b> |
|-------------------------------------------------------|

Use **Forward Impact: Specifics Unknown** when the case material indicate that a forward impact collision occurred while both vehicles were traveling on the same trafficway and in the same direction, but no further classification was possible.

### **Configuration F. Sideswipe/Angle**

The two vehicles are involved in an impact involving the side of one or both vehicles.

The following four attributes, **Sideswipe/Angle**, **Straight Ahead On Left**, **Sideswipe/Angle**, **Straight Ahead On Left/Right**, **Sideswipe/Angle**, **Changing Lanes To The Right** and **Sideswipe/Angle**, **Changing Lanes To The Left** identify relative vehicle positions (left versus right) and lane of travel intentions (straight ahead versus changing lanes). From these four codes, four combinations are permitted. They are:

1. **44 (Sideswipe/Angle, Straight Ahead On Left)** and **45 (Sideswipe/Angle, Straight Ahead On Left/Right)**.
2. **46 (Sideswipe/Angle, Changing Lanes To The Right)** and **45 (Sideswipe/Angle, Straight Ahead On Left/Right)**.
3. **45 (Sideswipe/Angle, Straight Ahead On Left/Right)** and **47 (Sideswipe/Angle, Changing Lanes To The Left)**.

4. **46 (Sideswipe/Angle, Changing Lanes To The Right)** and **47 (Sideswipe/Angle, Changing Lanes To The Left)**.

When used in combination, these codes refer to a sideswipe or angle collision that involved a vehicle to the left of a vehicle to the right where:

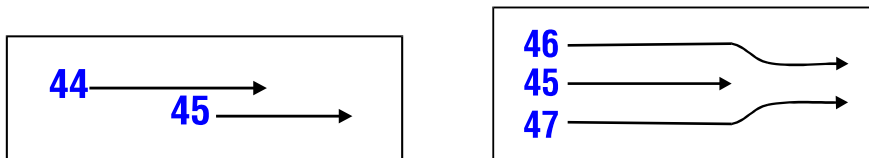
1. neither vehicle (**Sideswipe/Angle, Straight Ahead On Left** and **Sideswipe/Angle, Straight Ahead On Left/Right**) intended to change its lane;
2. the vehicle on the left (**Sideswipe/Angle, Changing Lanes To The Right**) was changing lanes to the right, and the vehicle on the right (**Sideswipe/Angle, Straight Ahead On Left/Right**) was not intending to change its lane;
3. the vehicle on the left (**Sideswipe/Angle, Straight Ahead On Left/Right**) was not intending to change its lane, and the vehicle on the right (**Sideswipe/Angle, Changing Lanes To The Left**) was changing lanes to the left, and
4. the vehicle on the left (**Sideswipe/Angle, Changing Lanes To The Right**) was changing lanes to the right, and the vehicle on the right (**Sideswipe/Angle, Changing Lanes To The Left**) was changing lanes to the left.

In addition, when:

1. the right sides of the two vehicles impact following a 180-degree rotation of the vehicle on the right, or
2. the left sides of the two vehicles impact following a 180-degree rotation of the vehicle on the left.

Select the appropriate combination depending upon:

1. their positions (i.e., left versus right) and
2. the intended lane of travel (straight ahead versus changing lanes) of their drivers.



#### ***44 (Sideswipe/Angle: Straight Ahead on Left)***

See discussion under [Configuration F. Sideswipe/Angle](#), above for an explanation of when this attribute applies.

#### ***45 (Sideswipe/Angle: Straight Ahead on Left/Right)***

See discussion under [Configuration F. Sideswipe/Angle](#), above for an explanation of when this attribute applies.

#### ***46 (Sideswipe/Angle: Changing Lanes to the Right)***

See discussion under [Configuration F. Sideswipe/Angle](#), above for an explanation of when this attribute applies.

#### 47 (*Sideswipe/Angle: Changing Lanes to the Left*)

See discussion under [Configuration F. Sideswipe/Angle](#), above for an explanation of when this attribute applies.

#### 48 (*Sideswipe/Angle: Specifics Other*)

EACH: **48**  
SPECIFICS  
OTHER

Use **Sideswipe/Angle: Specifics Other** if one vehicle was behind the other prior to a sideswipe/angle collision occurring while both vehicles were traveling on the same trafficway and in the same direction.

For example, use this code when two vehicles are on the same trafficway and going the same direction, and one loses control and is struck in the side by the front of the other vehicle. However, if one vehicle rotates such that the impact is front to front, then use code [98 \(Other crash type\)](#).

Use **Sideswipe/Angle: Specifics Other** for crashes involving a driverless in-transport vehicle.

#### 49 (*Sideswipe/Angle: Specifics Unknown*)

EACH: **49**  
SPECIFICS  
UNKNOWN

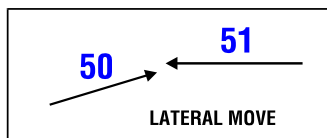
Use **Sideswipe/Angle: Specifics Unknown** for sideswipe/angle collisions that occur while both vehicles are traveling on the same trafficway and in the same direction when no further classification is possible.

### **Category III. Same Trafficway, Opposite Direction**

#### **Configuration G. Head-On**

The frontal area of one vehicle impacted the frontal area of another.

#### 50 (*Head-On: Lateral Move (Left/Right)*)



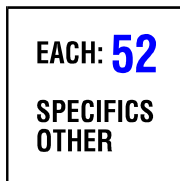
Use **Head-On: Lateral Move (Left/Right)** for a vehicle that LEAVES ITS LANE [moves laterally (sideways)] immediately before colliding head-on with another vehicle, when the vehicles are traveling on the same trafficway in opposite directions.



### **51 (Head-On: Lateral Move (Going Straight))**

Use **Head-On: Lateral Move (Going Straight)** for a vehicle that collides head-on with another vehicle that has IMMEDIATELY LEFT ITS LANE (moved laterally) when the vehicles are traveling on the same trafficway in opposite directions.

### **52 (Head-On: Specifics Other)**



Use **Head-On: Specifics Other** for a head-on collision that cannot be described by “50-51,” when the vehicles are traveling on the same trafficway in opposite directions. Clarification: Enter “52” for both vehicles involved in a head-on collision when one is traveling the wrong way on a one-way roadway.

Enter “Specifics Other” for crashes involving a driverless in-transport vehicle.

### **53 (Head-On: Specifics Unknown)**

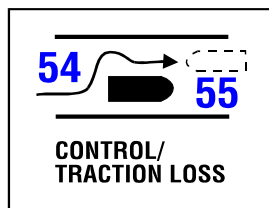


Use **Head-On: Specifics Unknown** when the case material indicate a head-on collision occurred between two vehicles traveling on the same trafficway in opposite directions, when no further classification is possible.

### **Configuration H. Forward Impact**

The frontal area of one vehicle impacted the frontal area of another following a steering maneuver around a noninvolved vehicle or an object.

### **54 (Forward Impact: Control/Traction Loss)**

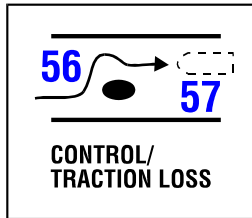


Use **Forward Impact: Control/Traction Loss** for a vehicle whose frontal area impacts another vehicle due to loss of control or traction (during a maneuver to avoid a collision with a third vehicle) while the vehicles are traveling on the same trafficway in opposite directions.

**55 (Forward Impact: Control/Traction Loss)**

Use **Forward Impact: Control/Traction Loss** for a vehicle that is impacted by the frontal area of another vehicle due to loss of control or traction (during a maneuver to avoid a collision with a third vehicle) while the vehicles are traveling on the same trafficway in opposite directions.

**56 (Forward Impact: Control/Traction Loss)**

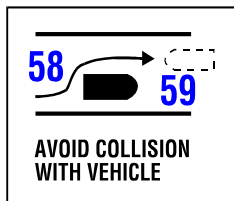


Use **Forward Impact: Control/Traction Loss** for a vehicle whose frontal area impacts another vehicle due to loss of control or traction (during a maneuver to avoid a collision with a non-fixed object (garbage can, person, animal, etc.) in the Road) while the vehicles are traveling on the same trafficway in opposite directions.

**57 (Forward Impact: Control/Traction Loss)**

Use **Forward Impact: Control/Traction Loss** for a vehicle that is impacted by the frontal area of another vehicle due to loss of control or traction (during a maneuver to avoid a collision with a non-fixed object (garbage can, person, animal, etc.) in the Road) while the vehicles are traveling on the same trafficway in opposite directions.

**58 (Forward Impact: Avoid Collision with Vehicle)**

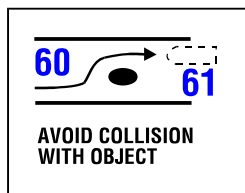


Use **Forward Impact: Avoid Collision with Vehicle** for a vehicle whose frontal area impacts another vehicle while maneuvering to avoid a collision with a non-involved vehicle, when loss of control or traction was not a factor, and the vehicles were traveling on the same trafficway, in opposite directions.

**59 (Forward Impact: Avoid Collision with Vehicle)**

Use **Forward Impact: Avoid Collision with Vehicle** for a vehicle that was impacted by the frontal area of another vehicle that was maneuvering to avoid collision with a non-involved vehicle, when loss of control or traction was not a factor, and the vehicles were traveling on the same trafficway, in opposite directions.

### 60 (*Forward Impact: Avoid Collision with Object*)

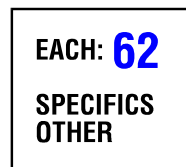


Use **Forward Impact: Avoid Collision with Object** for a vehicle that struck the front of another vehicle with the frontal plane while maneuvering to avoid collision with a non-fixed object (garbage can, person, animal, etc.) in the road, when loss of control or traction was not a factor, and the vehicles were traveling on the same trafficway, in opposite directions.

### 61 (*Forward Impact: Avoid Collision with Object*)

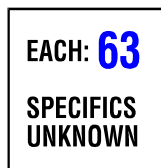
Use **Forward Impact: Avoid Collision with Object** for a vehicle that was impacted by the frontal area of another vehicle that was maneuvering to avoid collision with a non-fixed object (garbage can, person, animal, etc.) in the road, when loss of control or traction was not a factor, and the vehicles were traveling on the same trafficway, in opposite directions.

### 62 (*Forward Impact: Specifics Other*)



Use **Forward Impact: Specifics Other** for forward impact collisions occurring while the vehicles were traveling on the same trafficway in opposite directions that cannot be described by [“54-61.”](#) Enter “Specifics Other” for crashes involving a “driverless in-transport vehicle.”

### 63 (*Forward Impact: Specifics Unknown*)

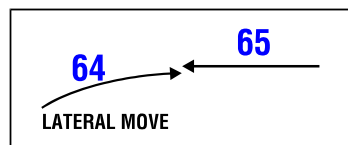


Use **Forward Impact: Specifics Unknown** when the case material indicate a forward impact collision occurred while the vehicles were traveling on the same trafficway in opposite directions, but no further classification is possible.

### Configuration I. Sideswipe/Angle

The two vehicles are involved in an impact involving the side of one or both vehicles.

### 64 (*Sideswipe/Angle: Lateral Move (Left/Right)*)



Use **Sideswipe/Angle: Lateral Move (Left/Right)** identifies the vehicle that **infringed upon the other vehicle** (code “65”) in a Category III, Configuration I collision; i.e., enter “64” for the vehicle that left its lane (moved laterally) leading to the collision.

**65 (Sideswipe/Angle: Lateral Move (Going Straight))**

Use **Sideswipe/Angle: Lateral Move (Going Straight)** for the vehicle that was infringed upon by the other vehicle (code “64”) in a Category III, Configuration I collision.

**66 (Sideswipe/Angle: Specifics Other)**

EACH: **66**  
SPECIFICS  
OTHER

Use **Sideswipe/Angle: Specifics Other** for sideswipe/angle collisions occurring while both vehicles were traveling on the same trafficway in opposite directions that cannot be described by “64-65.” Enter “Specifics Other” for crashes involving a “driverless in-transport vehicle.”

However, if one vehicle rotates such that the impact is front to front or front to rear, and did not result from a steering maneuver around a noninvolved vehicle or an object ([Configuration H](#)) then use code **98 (Other Crash Type)**.

**67 (Sideswipe/Angle: Specifics Unknown)**

EACH: **67**  
SPECIFICS  
UNKNOWN

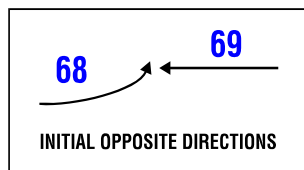
Use **Sideswipe/Angle: Specifics Unknown** when the case material indicate a sideswipe/angle collision occurred while both vehicles were traveling on the same trafficway in opposite directions, but no further classification is possible.

**Category IV. Changing Trafficway, Vehicle Turning**

**Configuration J. Turn Across Path**

The two vehicles were initially on the same trafficway when one vehicle tried to turn onto another trafficway, a driveway, or parking lot and pulled in front of the other vehicle. Vehicles making a “U” turn are identified in [Category VI. Miscellaneous](#).

**68 (Turn Across Path: Initial Opposite Directions (Left/Right))**



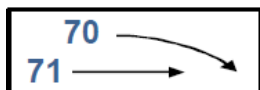
Use **Turn Across Path: Initial Opposite Directions (Left/Right)** for the vehicle that turned across the path of another vehicle (**Turn Across Path: Initial Opposite Directions [Going**

**Straight])** in a Category IV, Configuration J collision, in which the vehicles were initially traveling in opposite directions.

**69 (Turn Across Path: Initial Opposite Directions (Going Straight))**

Use **Turn Across Path: Initial Opposite Directions (Going Straight)** for a vehicle involved in a collision in which another vehicle (**Turn Across Path: Initial Opposite Directions [Left/Right]**) across its Path, and in which the vehicles were initially traveling in opposite directions.

**70 (Turn Across Path: Initial Same Directions (Turning Right))**

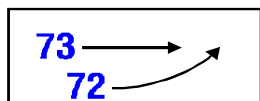


Use **Turn Across Path: Initial Same Directions (Turning Right)** for a vehicle that turned right, across the path of another vehicle (**Turn Across Path: Initial Same Directions [Going Straight]**), when both vehicles were initially traveling in the same direction.

**71 (Turn Across Path: Initial Same Directions (Going Straight))**

**Turn Across Path: Initial Same Directions (Going Straight)** for a vehicle whose path was crossed by a vehicle turning right (**Turn Across Path: Initial Same Directions (Turning Right)**), when both vehicles were initially traveling in the same direction.

**72 (Turn Across Path: Initial Same Directions (Turning Left))**



Use **Turn Across Path: Initial Same Directions (Turning Left)** for a vehicle that turned left, across the path of another vehicle (**Turn Across Path: Initial Same Directions [Going Straight]**), when both vehicles were initially traveling in the same direction.

**73 (Turn Across Path: Initial Same Directions (Going Straight))**

Use **Turn Across Path: Initial Same Directions (Going Straight)** for a vehicle whose path was crossed by a vehicle turning left (**Turn Across Path: Initial Same Directions [Turning Left]**), when both vehicles were initially traveling in the same direction.

**74 (Turn Across Path: Specifics Other)**

|                 |
|-----------------|
| EACH: <b>74</b> |
| SPECIFICS       |
| OTHER           |

Use **Turn Across Path: Specifics Other** for collisions in which one vehicle turned across another's path, which cannot be described by "68-72." Enter "Specifics Other" for crashes involving a driverless in-transport vehicle.

### 75 (*Turn Across Path: Specifics Unknown*)

EACH: **75**  
SPECIFICS  
UNKNOWN

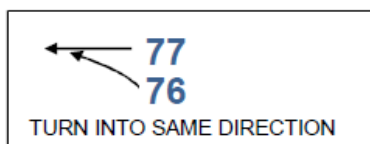
Use **Turn Across Path: Specifics Unknown** when the case material indicate one vehicle turned across another's path, causing a collision, but no further classification is possible.

### Configuration K. Turn Into Path

The two vehicles were initially on different trafficways when one attempted to turn into the same trafficway as the other vehicle. For the purposes of Crash Typing, "trafficway" as used here includes a driveway or parking lot.

Note: The focus of this configuration is on the turning maneuver from one trafficway to another and not on the vehicles' plane of contact.

### 76 (*Turn into Same Direction (Turning Left)*)

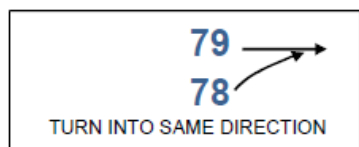


Use **Turn into Same Direction (Turning Left)** for a vehicle that turned left, into the path of another vehicle (**Turn into Same Direction [Going Straight]**), so that both vehicles were traveling in the same direction at the time of the collision.

### 77 (*Turn into Same Direction (Going Straight)*)

Use **Turn into Same Direction (Going Straight)** for a vehicle involved in a collision in which another vehicle (**Turn into Same Direction [Turning Left]**) turned left, into its path, so that both vehicles were traveling in the same direction at the time of the collision.

### 78 (*Turn into Same Direction (Turning Right)*)



Use **Turn into Same Direction (Turning Right)** for a vehicle that turned right, into the path of another vehicle (**Turn into Same Direction [Going Straight]**), so that both vehicles were traveling in the same direction at the time of the collision.

### 79 (*Turn into Same Direction (Going Straight)*)

Use **Turn into Same Direction (Going Straight)** for a vehicle involved in a collision in which another vehicle (**Turn into Same Direction [Turning Right]**) turned right, into its path, so that both vehicles were traveling in the same direction at the time of the collision.

### 80 (Turn into Opposite Directions (Turning Right))

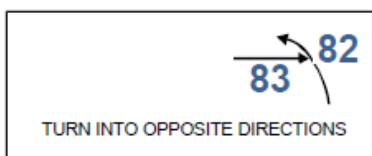


Use **Turn into Opposite Directions (Turning Right)** for a vehicle that turned right, into the path of another vehicle (**Into Opposite Directions [Going Straight]**), so that the vehicles were traveling in opposite directions at the time of the collision.

### 81 (Turn into Opposite Directions (Going Straight))

Use **Turn into Opposite Directions (Going Straight)** for a vehicle involved in a collision in which another vehicle (**Turn into Opposite Directions [Turning Right]**) turned right, into its path, so that the vehicles were traveling in opposite directions at the time of the collision.

### 82 (Turn into Opposite Directions (Turning Left))



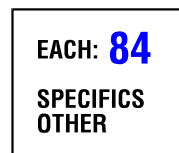
Use **Turn into Opposite Directions (Turning Left)** for a vehicle that turned left, into the path of another vehicle (**Turn into Opposite Directions [Going Straight]**), so that the vehicles were traveling in opposite directions at the time of the collision.

**Turn into Opposite Directions (Turning Left)** is used when the driver's vehicle was in the act of making a left turn (e.g., from a driveway, parking lot, or intersection). Do not confuse this situation with "[Configuration L - Straight Paths](#)." The driver's intended path is the prime concern.

### 83 (Turn into Opposite Directions (Going Straight))

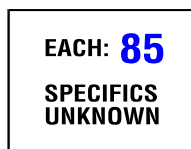
Use **Turn into Opposite Directions (Going Straight)** for a vehicle involved in a collision in which another vehicle (**Turn into Opposite Directions [Turning Left]**) turned left, into its path, so that the vehicles were traveling in opposite directions at the time of the collision.

### 84 (Turn into Path: Specifics Other)



Use **Turn into Path: Specifics Other** for collisions in which one vehicle turned into another's path, which cannot be described by "76-83." Enter "Specifics Other" for crashes involving a driverless in-transport vehicle.

### **85 (Turn into Path: Specifics Unknown)**



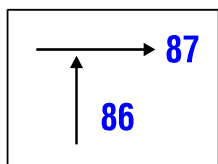
Use **Turn into Path: Specifics Unknown** when the case material indicate one vehicle turned into another's path, causing a collision, but no further classification is possible.

## **Category V. Intersecting Paths (Vehicle Damage)**

### **Configuration L. Straight Paths**

The two vehicles were proceeding (or attempting to proceed) straight ahead.

### **86 (Straight Paths: Striking from the Right)**

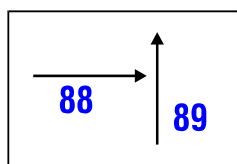


Use **Straight Paths: Striking from the Right** for a vehicle that strikes the right side of another vehicle (code "87") from the right when both vehicles were going straight at the time of the collision, i.e., right side damage to 87, front damage to 86.

### **87 (Straight Paths: Struck on the Right)**

Use **Straight Paths: Struck on the Right** for a vehicle that is struck on the right side by another vehicle (**Straight Paths: Striking from the Right**) from the right when both vehicles were going straight at the time of the collision, i.e., right side damage to 87, front damage to 86.

### **88 (Straight Paths: Striking from the Left)**



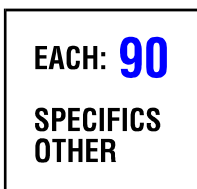
Use **Straight Paths: Striking from the Left** for a vehicle that strikes another vehicle (**Straight Paths: Struck on the Left**) from the left when both vehicles were going straight at the time of the collision, i.e., left side damage to 89, front damage to 88.

### **89 (Straight Paths: Struck on the Left)**

Use **Straight Paths: Struck on the Left** for a vehicle that is struck on the left side by another vehicle (**Straight Paths: Striking from the Left**) from the left when both vehicles were going straight at the time of the collision, i.e., left side damage to 89, front damage to 88.



### 90 (Straight Paths: Specifics Other)



Use **Straight Paths: Specifics Other** for collisions in which two vehicles, both going straight, collide when their paths intersect, which cannot be described by “86-89.” Enter “Specifics Other” for crashes involving a driverless in-transport vehicle.

### 91 (Straight Paths: Specifics Unknown)



Use **Straight Paths: Specifics Unknown** when the case material indicate two vehicles, both going straight, collided when their paths intersected, but no further classification is possible.

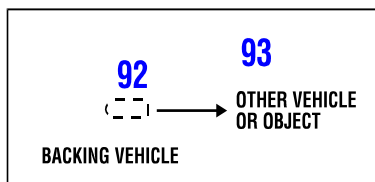
## Category VI. Miscellaneous

### Configuration M. Backing, etc.

One of the two vehicles involved was a backing vehicle, regardless of its location on the trafficway or the damage location on the vehicles.

Any crash configuration that cannot be described in Category I. through V. is included here.

### 92 (Backing, etc.: Backing Vehicle)



Use **Backing, etc.: Backing Vehicle** for a backing vehicle that was involved with another vehicle, object, or non-motorist. If both vehicles were backing, then code 92 for both vehicles. If the vehicle was driverless or unintentionally rolling backwards, use [98 \(Other Crash Type\)](#).

### 93 (Backing, etc.: Other Vehicle)

Use **Backing, etc.: Other Vehicle** for the in-transport vehicle that was involved with the backing vehicle (code 92). Attribute 93 can only apply when there are two motor vehicles in-transport.

**98** OTHER CRASH TYPE

**99** UNKNOWN CRASH TYPE

**00** NO IMPACT

### ***98 (Other Crash Type)***

**Other Crash Type** is used for those events and collisions that do not reasonably fit any of the specified types. This code includes (but is not limited to): rollovers on the road; U-turns; crashes initiated by objects set in motion by an in-transport motor vehicle; third or subsequent vehicles involved in a crash; or the second involved vehicle, when the first harmful event involves a vehicle-to-object collision or a non-collision.

### ***99 (Unknown Crash Type)***

Use **Unknown Crash Type** when the crash category or configuration is unknown.

### ***00 (No Impact)***

**No Impact** identifies the non-collision events fire, immersion, gas inhalation, jackknife, injured in vehicle, pavement surface irregularity, other non-collision, thrown or falling object, cargo equipment loss or shift, or fell/jumped from vehicle. Rollovers on the road should be coded **98 (Other Crash Type)**.

### ***The following crash types require clarification:***

**No impact** identifies non-collision events (i.e., fire, immersion, gas inhalation, jackknife, non-collision injury, other non-collision, or non-collision - no details). Rollovers on the road should be coded as **98 (Other Crash Type)**.

**Right roadside departure, drive off road** and **Left roadside departure, drive off road** are used when the vehicle departed the road under a controlled situation (the driver was distracted, fell asleep, intentionally departed, etc.).

**Right roadside departure, control/traction loss** and **Left roadside departure, control/traction loss** are used if there is some evidence that the vehicle lost traction or in some other manner “got away” from the driver (i.e., the vehicle spun off the road as a result of surface conditions, oversteer phenomena, or mechanical malfunctions). If doubt exists, use **Right roadside departure, drive off road** or **Left roadside departure, drive off road** respectively.

**Right roadside departure; avoid collision with vehicle, pedestrian, animal** and **Left roadside departure; avoid collision with vehicle, pedestrian, animal** are used when the vehicle departed the road as a result of avoiding something in the road. “Phantom” situations are included here.

**Right roadside departure, specifics other** and **Left roadside departure, specifics other** are used for any other stationary or nonstationary objects if the avoidance characteristics of codes “03” or “08” are present.

**Forward impact, parked vehicle**, **Forward impact, stationary object**, and **Forward impact, pedestrian/animal** involves an impact with an object that can be located on either side of the road.

**Forward impact, stationary object** includes a hole in the road, an overhead object (e.g., overpass), or an object projecting over the road edge (e.g., support column of elevated railway).

**Forward impact, pedestrian/animal** is used when a pedestrian, non-motorist, or animal is involved with the first harmful event. Vehicle plane of contact is not a consideration.

**Forward impact, specifics other** is used for impacted (striking or struck) trains and nonstationary objects on the road.

**Sideswipe/Angle, straight ahead on left**, **Sideswipe/Angle, straight ahead on left/right**, **Sideswipe/Angle, changing lanes to the right**, and **Sideswipe/Angle, changing lanes to the left** identify relative vehicle positions (left versus right) and lane of travel intentions (straight ahead versus changing lanes).

From these four codes, four combinations are permitted. They are:

1. “44” and “45,”
2. “46” and “45,”
3. “45” and “47,” and
4. “46” and “47.”

When used as a combination these codes refer to a sideswipe or angle collision that involved a vehicle to the left of a vehicle to the right where:

1. neither vehicle (codes “44” and “45”) intended to change its lane;
2. the vehicle on the left (code “46”) was changing lanes to the right, and the vehicle on the right (code “45”) was not intending to change its lane;
3. the vehicle on the left (code “45”) was not intending to change its lane, and the vehicle on the right (code “47”) was changing lanes to the left; and
4. the vehicle on the left (code “46”) was changing lanes to the right, and the vehicle on the right (code “47”) was changing lanes to the left.

In addition, when:

1. the right sides of the two vehicles impact following a 180-degree rotation of the vehicle on the right, or
2. the left sides of the two vehicles impact following a 180-degree rotation of the vehicle on the left; select the appropriate combination (“44-45,” “46-45,” “45-47,” or “46-47”) depending upon:
3. their positions (i.e., left versus right), and
4. the intended lane of travel (straight ahead versus changing lanes) of their drivers.

**Sideswipe/Angle, specifics other** is used if one vehicle was behind the other prior to their Category II, Configuration F collision. For example, use this code when two vehicles are on the same trafficway and going the same direction, and one loses control and is struck in the side by the front of the other vehicle. However, if one vehicle rotates such that the impact is front to front, then use code **98 (Other crash type)**.

[Sideswipe/Angle, lateral move \(Left/Right\)](#) identifies the vehicle that infringed upon the other (code 65) in a Category III, Configuration I collision.

Codes 68 through 85 ([Turn Across Path](#) and [Turn into Path](#)) are used in Configurations J and K where the vehicle's action is the controlling factor, and the plane of contact is irrelevant.

[Turn into Opposite Direction \(Turning Left\)](#) is used when the driver's vehicle was in the act of making a left turn (e.g., from a driveway, parking lot, or intersection). Do not confuse this situation with [Configuration L. Straight Paths](#). The driver's intended path is the prime concern.

Codes 86 through 89 ([Straight Paths](#)) must not be confused with crash types in [Configuration K. Turn into Path](#). For these codes the vehicles are proceeding (or attempting to proceed) straight ahead, usually at a junction.

[Other Crash Type](#) is used for those events and collisions that do not reasonably fit any of the specified types. This code includes (but is not limited to): rollovers on the road, U-turns, crashes initiated by objects set in motion by an in-transport motor vehicle, third or subsequent vehicles involved in a crash, or the second involved vehicle when the first harmful event involved a vehicle-to-object collision.

**Consistency Checks [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                                                              | <b>THEN</b>                                                                                                 |
|-----------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| 253P            | RELATION TO TRAFFICWAY equals 03,                                      | CRASH TYPE should equal 06-10, 98, or 99 for the in-transport vehicles involved in the FIRST HARMFUL EVENT. |
| 3B1P            | CRASH TYPE equals 21-23,                                               | TRAVEL SPEED must equal 000 for this vehicle.                                                               |
| 3B2P            | CRASH TYPE equals 20, 24, 28, 34, 36, 38, 40, 50-54, 56, 58, or 60,    | AREA OF IMPACT-INITIAL CONTACT POINT must equal 12 for this vehicle.                                        |
| 3B3P            | CRASH TYPE equals 21-23, 25-27, 29-31, 35, 37, 39, or 41,              | AREAS OF IMPACT-INITIAL CONTACT POINT must equal 6 for this vehicle.                                        |
| 3B4P            | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 10, | CRASH TYPE must not equal 44-69, 71-73, 76, 77, 79, 81-83, 86-92.                                           |
| 3B5P            | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 11, | CRASH TYPE must not equal 44-67, 69-71, 73, 77-81, 83, 86-92.                                               |
| 3B6P            | CRASH TYPE equals 87,                                                  | AREAS OF IMPACT-INITIAL CONTACT POINT must equal 01-05, 81-83 for this vehicle.                             |
| 3B7P            | CRASH TYPE equals 89,                                                  | AREAS OF IMPACT-INITIAL CONTACT POINT must equal 07-11, 61-63 for this vehicle.                             |
| 3B8P            | CRITICAL EVENT - PRECRASH (EVENT) equals 20,                           | CRASH TYPE for this vehicle should equal 92.                                                                |

| <b>Error ID</b> | <b>IF</b>                                                                            | <b>THEN</b>                                                                                                                                      |
|-----------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| 3BAP            | UNIT TYPE equals 1, and DRIVER PRESENCE equals 0,                                    | CRASH TYPE must equal 00, 04, 09, 15, 32, 42, 48, 52, 62, 66, 74, 84, 90, 93, or 98.                                                             |
| 3BCP            | CRASH TYPE equals 34, 36, 38, 40, 54, 56, 58, or 60,                                 | DRIVER MANEUVERED TO AVOID must not equal 00.                                                                                                    |
| 3BDP            | CRASH TYPE equals 46, 47, and ATTEMPTED AVOIDANCE MANEUVER equals 01 or 99,          | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must not equal 01.                                                                   |
| 3BEP            | CRASH TYPE equals 01 or 06, and ATTEMPTED AVOIDANCE MANEUVER equals 01,              | PRE-IMPACT STABILITY should not equal 2-5 or 7.                                                                                                  |
| 3BFP            | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 08 or 09,         | CRASH TYPE must not equal 46 or 47.                                                                                                              |
| 3C00            | CRASH TYPE equals 68, 72, 76, or 82,                                                 | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 11 or 98.                                                               |
| 3C10            | CRASH TYPE equals 70, 78, or 80,                                                     | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 10 or 98.                                                               |
| 3C20            | this vehicle is involved in the FIRST HARMFUL EVENT and its CRASH TYPE equals 29-31, | this vehicle's PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 02.                                                      |
| 3C30            | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 12,               | CRASH TYPE should equal 98.                                                                                                                      |
| 3C40            | CRASH TYPE equals 46,                                                                | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 06, 15, 16, or ATTEMPTED AVOIDANCE MANEUVER should equal 07, 09, or 12. |
| 3C50            | CRASH TYPE equals 92,                                                                | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 08, 09, 13, 99.                                                           |
| 3C60            | CRASH TYPE equals 25-27, 29-31,                                                      | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should not equal 05 or 07.                                                           |
| 3C70            | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 13,               | CRASH TYPE should equal 92 or 98.                                                                                                                |

| <b>Error ID</b> | <b>IF</b>                                                                               | <b>THEN</b>                                                                                                                                                                                   |
|-----------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3C80            | CRASH TYPE equals 47,                                                                   | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 06, 15, 16, or ATTEMPTED AVOIDANCE MANEUVER should equal 06, 08, or 11.                                              |
| 3D00            | CRASH TYPE equals 20-49, and ATTEMPTED AVOIDANCE MANEUVER equals 00, 01,                | CRITICAL EVENT - PRECRASH (EVENT) should not equal 12-14, 54, <b>62, 63</b> , 66-68, 71-73, or 80-85.                                                                                         |
| 3D10            | CRASH TYPE equals 50-67, and ATTEMPTED AVOIDANCE MANEUVER equals 00, 01,                | CRITICAL EVENT - PRECRASH (EVENT) should not equal 12-14, 51-53, 60, 61, 65, 66, 70, 71, 80-85, or 87-92.                                                                                     |
| 3D20            | CRASH TYPE equals 14 and ATTEMPTED AVOIDANCE MANEUVER equals 01,                        | CRITICAL EVENT PRECRASH (EVENT) should equal 14.                                                                                                                                              |
| 3D50            | PRE-IMPACT STABILITY equals 1,                                                          | CRASH TYPE should not equal 02, 07, 34, 36, 54, or 56.                                                                                                                                        |
| 3D60            | CRASH TYPE equals 46 or 47,                                                             | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should not equal 01.                                                                                                              |
| <b>3D90</b>     | <b>CRASH TYPE equals 68-75,</b>                                                         | <b>CRITICAL EVENT – PRECRASH (EVENT) must not equal 65-68.</b>                                                                                                                                |
| <b>3F00</b>     | <b>CRASH TYPE equals 76-85,</b>                                                         | <b>CRITICAL EVENT – PRECRASH (EVENT) must not equal 60-64.</b>                                                                                                                                |
| 426P            | MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 02,                               | CRASH TYPE must not equal 64-67 for the vehicles involved in the FIRST HARMFUL EVENT.                                                                                                         |
| 427P            | MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 06,                               | CRASH TYPE must not equal 20-43 or 50-53 for the vehicles involved in the FIRST HARMFUL EVENT.                                                                                                |
| 428P            | CRASH TYPE equals 20-91,                                                                | NUMBER OF VEHICLE FORMS SUBMITTED must be greater than 001.                                                                                                                                   |
| 429P            | NUMBER OF VEHICLE FORMS SUBMITTED equals 001,                                           | CRASH TYPE must equal 00, 01-16, 92, 98, 99.                                                                                                                                                  |
| 42BP            | there is only one vehicle involved in the FIRST HARMFUL EVENT where UNIT TYPE equals 1, | the number of vehicles where CRASH TYPE is coded 00, 1-16, 92, 93, or 99 (excluding from the vehicles being counted, those where CRASH TYPE equals 98) must not equal 0 or be greater than 1. |
| 42CP            | there are two vehicles involved in the FIRST HARMFUL EVENT,                             | those two vehicles' CRASH TYPES must belong to the same CRASH TYPE Configuration.                                                                                                             |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                      | <b>THEN</b>                                                                                                                                                                           |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 77AP            | CRASH TYPE equals 14,                                                                                                                                                                                          | RELATION TO JUNCTION (b) must not equal 02.                                                                                                                                           |
| 77BP            | CRASH TYPE equals 68-91,                                                                                                                                                                                       | RELATION TO JUNCTION (b) should not equal 01.                                                                                                                                         |
| 77CP            | CRASH TYPE equals 14,                                                                                                                                                                                          | RELATION TO JUNCTION (b) should equal 01, 03, 19.                                                                                                                                     |
| 9BAP            | MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 07, and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 10 or 11 for neither one of the vehicles involved in the FIRST HARMFUL EVENT, | CRASH TYPE should equal 44-49, 98, 99 for the vehicles involved in the FIRST HARMFUL EVENT.                                                                                           |
| 9BCP            | MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 08, and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 10 or 11 for neither one of the vehicles involved in the FIRST HARMFUL EVENT, | CRASH TYPE should equal 64-67, 98, 99 for the vehicles involved in the FIRST HARMFUL EVENT.                                                                                           |
| 9BDP            | MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 01,                                                                                                                                                      | CRASH TYPE should not equal 44-49 for the vehicles involved in the FIRST HARMFUL EVENT.                                                                                               |
| A3C0            | FIRST HARMFUL EVENT equals 02-07,16, 44, 51, 72,                                                                                                                                                               | CRASH TYPE must equal 00 for the vehicle involved in the FIRST HARMFUL EVENT.                                                                                                         |
| A3D0            | FIRST HARMFUL EVENT equals 01-07, 16, 44, 51, 72,                                                                                                                                                              | CRASH TYPE must not equal 20-91.                                                                                                                                                      |
| A3E0            | CRASH TYPE equals 13,                                                                                                                                                                                          | FIRST HARMFUL EVENT must equal 08, 09, 11, 15, or 49.                                                                                                                                 |
| A480            | CRASH TYPE equals 00,                                                                                                                                                                                          | FIRST HARMFUL EVENT must equal 02-07, 16, 44, 51, 72.                                                                                                                                 |
| A4A0            | CRASH TYPE equals 01-16,                                                                                                                                                                                       | FIRST HARMFUL EVENT must not equal 12.                                                                                                                                                |
| A4B0            | CRASH TYPE equals 01-10 or 14,                                                                                                                                                                                 | RELATION TO TRAFFICWAY must not equal 01, 02, 07, or 11. If the FIRST HARMFUL EVENT occurs on a different road than the road it departed, see <a href="#">98 (Other Crash Type)</a> . |
| A4B2            | CRASH TYPE equals 11,                                                                                                                                                                                          | RELATION TO TRAFFICWAY must not equal 01, 03, 04, 05, 08, 10, 11, or 12.                                                                                                              |
| A4B3            | CRASH TYPE equals 12 or 13,                                                                                                                                                                                    | RELATION TO TRAFFICWAY must not equal 03, 05, 08, 10, or 12.                                                                                                                          |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                        | <b>THEN</b>                                                                                                      |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| A4B4            | CRASH TYPE equals 12 (Stationary Object on Road) or 13 (Pedestrian/Animal on Road),                                                                                                                                                                              | RELATION TO TRAFFICWAY should not equal 4 (On Roadside) unless the FIRST HARMFUL EVENT occurs in a bicycle lane. |
| A4BP            | FIRST HARMFUL EVENT equals 54 or 55,                                                                                                                                                                                                                             | CRASH TYPE must equal 98 for the vehicles involved in the FIRST HARMFUL EVENT.                                   |
| A4DP            | CRASH TYPE equals 20-91,                                                                                                                                                                                                                                         | FIRST HARMFUL EVENT must equal 12.                                                                               |
| A4EP            | CRASH TYPE equals 11,                                                                                                                                                                                                                                            | FIRST HARMFUL EVENT must equal 14.                                                                               |
| A60F            | FIRST HARMFUL EVENT equals 14,                                                                                                                                                                                                                                   | CRASH TYPE should equal 01-11, 14, 15, 92, 98, 99.                                                               |
| A61F            | FIRST HARMFUL EVENT equals 08, 09, 11, 15, 49, and RELATION TO TRAFFICWAY equals 01, 02, 07, 11, and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) is not equal to 00, 13 for the vehicle involved in the FIRST HARMFUL EVENT,                     | CRASH TYPE should equal 13 for the vehicle involved in the FIRST HARMFUL EVENT.                                  |
| A61G            | the FIRST HARMFUL EVENT equals 08, and PERSON TYPE equals 05, and NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, 22, 24, 25, 28, and the VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is involved in the FIRST HARMFUL EVENT,                    | CRASH TYPE should not equal 13 for this vehicle.                                                                 |
| A61H            | the FIRST HARMFUL EVENT equals 09, and PERSON TYPE equals 06, 07, and NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, 22, 24, 25, 28, and the VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is involved in the FIRST HARMFUL EVENT,                | CRASH TYPE should not equal 13 for this vehicle.                                                                 |
| A61J            | the FIRST HARMFUL EVENT equals 15, and PERSON TYPE equals <b>11, 12, or 13</b> , and NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, 22, 24, 25, 28, and the VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is involved in the FIRST HARMFUL EVENT, | CRASH TYPE should not equal 13 for this vehicle.                                                                 |



| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                     | <b>THEN</b>                                                                                                                                        |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| A61K            | the FIRST HARMFUL EVENT equals 49, and PERSON TYPE equals 04, and NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, 22, 24, 25, 28, and the VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is involved in the FIRST HARMFUL EVENT, | CRASH TYPE should not equal 13 for this vehicle.                                                                                                   |
| A620            | CRASH TYPE equals 06-10, and TRAFFICWAY DESCRIPTION equals 3,                                                                                                                                                                                 | RELATION TO TRAFFICWAY should equal 03 or 12.                                                                                                      |
| A62F            | FIRST HARMFUL EVENT equals 18, 43, 73, 91, or 93, and RELATION TO TRAFFICWAY equals 01, 02, or 11,                                                                                                                                            | CRASH TYPE should equal 12 or 15 for the vehicle involved in the FIRST HARMFUL EVENT.                                                              |
| A62G            | FIRST HARMFUL EVENT equals 98 and RELATION TO TRAFFICWAY equals 01, 02, or 11,                                                                                                                                                                | CRASH TYPE must equal 16 for the vehicle involved in the FIRST HARMFUL EVENT.                                                                      |
| A63F            | FIRST HARMFUL EVENT equals 01,                                                                                                                                                                                                                | CRASH TYPE should equal 01-10, 98, 99 for the vehicle involved in the FIRST HARMFUL EVENT.                                                         |
| A65F            | FIRST HARMFUL EVENT equals 14, and RELATED FACTORS - PERSON (MV OCCUPANT) LEVEL equals 032 or 089 for an occupant of the parked vehicle involved in the FIRST HARMFUL EVENT,                                                                  | CRASH TYPE should equal 15, 92, or 98 for the in-transport vehicle involved in the FIRST HARMFUL EVENT.                                            |
| A66F            | FIRST HARMFUL EVENT equals 14, and CRASH TYPE equals 01-10 or 14,                                                                                                                                                                             | RELATED FACTORS - PERSON (MV OCCUPANT) LEVEL must not equal 032 or 089 for any occupant of the parked vehicle involved in the FIRST HARMFUL EVENT. |
| AZ2P            | FIRST HARMFUL EVENT does not equal 02-07, 16, 44, 51, 72, and CRITICAL EVENT-PRECRASH (EVENT) equals 14, and ATTEMPTED AVOIDANCE MANEUVER equals 01,                                                                                          | CRASH TYPE must equal 14 for the vehicle involved in the FIRST HARMFUL EVENT.                                                                      |
| B15P            | CRITICAL EVENT-PRECRASH (EVENT) equals 91, and ATTEMPTED AVOIDANCE MANEUVER equals 00, 01, and the vehicle is involved in the FIRST HARMFUL EVENT,                                                                                            | CRASH TYPE should equal 15.                                                                                                                        |
| B16P            | CRITICAL EVENT-PRECRASH (EVENT) equals 90, and ATTEMPTED AVOIDANCE MANEUVER equals 01, and the vehicle is involved in the FIRST HARMFUL EVENT,                                                                                                | CRASH TYPE should equal 12 or 15.                                                                                                                  |

| <b>Error ID</b> | <b>IF</b>                                                                                       | <b>THEN</b>                                                                                                                                                                      |
|-----------------|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BZ80            | MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 00,                                       | CRASH TYPE must equal 00, 01-16, 92, 98, 99 for the vehicle in the FIRST HARMFUL EVENT.                                                                                          |
| BZ90            | CRASH TYPE equals 01-05, and PRE-IMPACT LOCATION is not equal to 0 or 5,                        | at least one SEQUENCE OF EVENTS prior to the FIRST HARMFUL EVENT must equal 63.                                                                                                  |
| BZ91            | CRASH TYPE equals 06-10, and PRE-IMPACT LOCATION is not equal to 0 or 5,                        | at least one SEQUENCE OF EVENTS prior to the FIRST HARMFUL EVENT must equal 64.                                                                                                  |
| BZ92            | CRASH TYPE equals 14,                                                                           | at least one CRASH EVENTS-SEQUENCE OF EVENTS must equal 71 for this vehicle.                                                                                                     |
| FA1F            | CRASH TYPE for all in-transport vehicles not involved in the FIRST HARMFUL EVENT must equal 98. | --                                                                                                                                                                               |
| FP2F            | UNIT TYPE equals 1, and CRASH TYPE equals blank,                                                | case status is flawed.                                                                                                                                                           |
| V533            | CRASH TYPE equals 03, 08, 38, 40, 58, or 60,                                                    | ATTEMPTED AVOIDANCE MANEUVER must not equal 00 or 01.                                                                                                                            |
| <b>V534</b>     | <b>CRASH TYPE equals 02 or 07, and ATTEMPTED AVOIDANCE MANEUVER equals 01,</b>                  | <b>PRE-IMPACT STABILITY should not equal 09.</b>                                                                                                                                 |
| <b>V536</b>     | <b>CRASH TYPE equals 20-49,</b>                                                                 | <b>TRAFFICWAY DESCRIPTION should be the same for the vehicles involved in the FIRST HARMFUL EVENT.</b>                                                                           |
| <b>V537</b>     | <b>CRASH TYPE equals 68, 69, 82, 83, 86, 87, 88, or 89,</b>                                     | <b>the vehicles involved in the FIRST HARMFUL EVENT should have a RELATION TO JUNCTION equal to 02, 04, or 08.</b>                                                               |
| <b>V539</b>     | <b>CRASH TYPE equals 50-67,</b>                                                                 | <b>ROADWAY ALIGNMENT should not equal 2 for both vehicles involved in the FIRST HARMFUL EVENT, and should not equal 3 for both vehicles involved in the FIRST HARMFUL EVENT.</b> |
| V700            | ROLLOVER equals 2,                                                                              | CRASH TYPE should equal 01-10, 14, 98, or 99 for this vehicle.                                                                                                                   |
| V79P            | ROLLOVER equals 2, and FIRST HARMFUL EVENT equals 01,                                           | CRASH TYPE must equal 01-10, 14, 15, or 98 for the vehicle involved in the FIRST HARMFUL EVENT.                                                                                  |

**Consistency Check (FARS Only) [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                                                       | <b>THEN</b>                                                   |
|-----------------|-----------------------------------------------------------------|---------------------------------------------------------------|
| 662P            | TRAFFIC CONTROL DEVICE is not equal to 00 and CRASH TYPE is 14, | at least one RELATED FACTORS - DRIVER LEVEL should equal 039. |

## **Person Level (Motor Vehicle Occupant) Data Elements**

[P1 - State Number - FARS Only](#)

[P2 - Consecutive Number - FARS Only](#)

[P3 - Vehicle Number - Person Level \(MV Occupant\)](#)

[P4/NM3 - Person Number](#)

[P5/NM5 - Age](#)

[P6/NM6 - Sex](#)

[P7 - Person Type](#)

[P8/NM8 - Injury Severity](#)

[P9 - Seating Position](#)

[P10 - Restraint System Use](#)

[P11 - Helmet Use](#)

[P12 - Air Bag Deployed](#)

[P13 - Ejection](#)

[P14 - Ejection Path - FARS Only](#)

[P15 - Extrication - FARS Only](#)

[P16/NM16 - Police Reported Alcohol Involvement](#)

[P17/NM17 - Method of Alcohol Determination by Police - FARS Only](#)

[P18/NM18 - Alcohol Test](#)

[P19/NM19 - Police Reported Drug Involvement](#)

[P20/NM20 - Method of Drug Determination by Police - FARS Only](#)

[P21/NM21 - Drug Toxicology Results - FARS Only](#)

[Alphabetical Drug Index - FARS Only](#)

[Drugs by Category Type - FARS Only](#)

[P22/NM22 - Transported to First Medical Facility by](#)

[P23/NM23 - Died at Scene/En Route - FARS Only](#)

[P24/NM24 - Death Date - FARS Only](#)

[P25/NM25 - Death Time - FARS Only](#)

[P26 - Related Factors - Person \(MV Occupant\) Level](#)

### P3 - Vehicle Number - Person Level (Motor Vehicle Occupant)

**FORMAT:** 3 numeric

**SAS NAME:** Vehicle.VEH\_NO, Person.VEH\_NO, Parkwork.VEH\_NO

**ELEMENT VALUES:**

| Codes   | Attributes      |
|---------|-----------------|
| 001-999 | Assigned Number |

**Definition:** This element identifies the vehicle number associated with this motor vehicle occupant.

**Remarks:** 001-999 is used for motor vehicle occupants (In-Transport, Parked/Stopped Off Roadway/ Working Motor Vehicles, and Motor Vehicles in Motion Outside the Trafficway).

People ejected or who fall from a motor vehicle in-transport are still considered occupants of that vehicle for the duration of the unstabilized situation.

**Consistency Check** ([See Section 400](#)):

| Error ID | IF                                                      | THEN                                                                                 |
|----------|---------------------------------------------------------|--------------------------------------------------------------------------------------|
| CSI5     | VEHICLE NUMBER at the Person Level is greater than 000, | VEHICLE NUMBER at the Person Level must equal a VEHICLE NUMBER at the Vehicle Level. |

### P4/NM3 - Person Number

**FORMAT:** 3 numeric

**SAS NAME:** Person.PER\_NO

#### ELEMENT VALUES:

| Codes   | Attributes                         |
|---------|------------------------------------|
| 001-999 | Assigned Number/ Computer Assigned |

**Definition:** This element identifies a number for the motor vehicle occupant in consecutive order for the vehicle they occupied.

**Remarks:** Person Number is assigned using the police crash report's person number.

Person Level (Motor Vehicle Occupant) must be numbered consecutively beginning with "001" for each motor vehicle occupant. Drivers do not have to be "001." Numbers must not be skipped.

Person Level (Not a Motor Vehicle Occupant) must be numbered consecutively beginning with "001" for people not in motor vehicles. Numbers must not be skipped.

#### Consistency Check [\(See Section 400\)](#):

| Error ID | Error Message                                                                                     |
|----------|---------------------------------------------------------------------------------------------------|
| CSI6     | For each VEHICLE NUMBER, PERSON NUMBERS must be consecutive, beginning with 001 and with no gaps. |

## P5/NM5 - Age

**FORMAT:** 3 numeric

**SAS NAME:** Person.AGE

### ELEMENT VALUES:

| Codes   | Attributes                          |
|---------|-------------------------------------|
| 000     | Less than One Year                  |
| 001-120 | Actual Age*                         |
| 998     | <a href="#">Not Reported</a>        |
| 999     | <a href="#">Reported as Unknown</a> |

**Definition:** This element identifies the person's age, in years, with respect to the person's last birthday.

**Remarks:** If the case material does not show the age of injured or uninjured drivers or passengers and there is no other information about age, e.g., in the narrative/diagram, then use **998 (Not Reported)**.

**998 (Not Reported)** Check to see if [999 \(Reported as Unknown\)](#) is more appropriate for the situation.

If a State's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**."

Code **998 (Not Reported)** in these two situations:

1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

**999 (Reported as Unknown)** is used if the investigating officer indicates that this occupant's age is unknown.

\* Values greater than "094" are unlikely occurrences, and they will raise an error flag.

\* Values greater than "120" are not permitted.

### FARS SPECIAL INSTRUCTION:

For drivers, verify age with data on Licensing File. Licensing data takes precedence over crash report data.

**Consistency Checks ([See Section 400](#)):**

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                        | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2S4P            | AGE equals 0-4 and RESTRAINT SYSTEM USE Subfield 1-Type of Restraint System in Use does not equal 04, 10, 11, 12, 20, 98, or 99,                                                                                                 | RESTRAINT SYSTEM USE Subfield 2 - Any Indication of Mis-Use must equal 1.                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 2S5P            | AGE equals 5-7 and RESTRAINT SYSTEM USE Subfield 1-Type of Restraint System in Use does not equal 04, 10, 12, 20, 98, or 99,                                                                                                     | RESTRAINT SYSTEM USE Subfield 2 - Any Indication of Mis-Use must equal 1.                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 7P0F            | PERSON TYPE equals 01,                                                                                                                                                                                                           | AGE must not be less than 002.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 8P0P            | PERSON TYPE equals 01, and AGE is less than 008,                                                                                                                                                                                 | <b>vPIC BODY CLASS</b> must equal <b>4 (Low Speed Vehicle (LSV) / Neighborhood Electric Vehicle (NEV)), 12 (Motorcycle - Scooter), 87 (Motorcycle - Small / Minibike), 88 (Off-road Vehicle - Go Kart), 97 (Off-road Vehicle - Snowmobile), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)) and 105 (Off-road Vehicle - Recreational Off-Road Vehicle (ROV)) , 124 (Off-road Vehicle - Golf Cart), 125 (Motorcycle - Unknown Body Type), 997 (Other), 998 (Not Reported), or 999 (Unknown).</b> |
| P010            | PERSON TYPE equals 01,                                                                                                                                                                                                           | AGE should not be less than 012.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| P020            | PERSON TYPE equals 02, 03, 09, and RESTRAINT SYSTEM USE Subfield-1 Type of Restraint System in Use equals 04, 10-12,                                                                                                             | AGE should be less than 010, or equal to 998 or 999.                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| U120            | UNLIKELY: AGE should not be greater than 094, unless equal to 998, 999.                                                                                                                                                          | --                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| U360            | UNLIKELY: AGE equals 999 and HIT AND RUN is not equal to 1.                                                                                                                                                                      | --                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| U694            | UNLIKELY: AGE equals 0 and RESTRAINT SYSTEM USE Subfield-1 Type of Restraint System in Use equals 01-03, 06, 08, 20, 97, 98, 99, or blank and [SEX equals 2 and AGE equals 5-72 for at least one other occupant in the vehicle]. | --                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| U720            | UNLIKELY: AGE equals 0 and HELMET USE Subfield 1-Helmet Use equals 05, 16, 17, 19, 98, 99, or blank and [SEX equals 2 and AGE equals 5-72 for at least one other occupant in the vehicle].                                       | --                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |



**Consistency Checks (FARS Only) ([See Section 400](#)):**

| <b>Error ID</b> | <b>IF</b>                                                                                                               | <b>THEN</b>                                         |
|-----------------|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| 5W0P            | RELATED FACTORS-PERSON LEVEL equals 018,                                                                                | SEX must equal 2, and AGE must be greater than 012. |
| 9L0F            | PERSON TYPE equals 01, and RELATED FACTORS-DRIVER LEVEL equals 012,                                                     | SEX must equal 2, and AGE must be greater than 012. |
| D060            | NON-CDL LICENSE STATUS equals 1-4, 6, or COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 1-8, and PERSON TYPE equals 01, | AGE should not be less than 015.                    |
| D620            | NON-CDL LICENSE TYPE equals 7,                                                                                          | AGE (for the driver) should equal 014-016.          |
| D630            | NON-CDL LICENSE TYPE equals 2,                                                                                          | AGE (for the driver) should equal 015-017.          |
| D640            | AGE equals 014-017, and PERSON TYPE equals 01,                                                                          | NON-CDL LICENSE TYPE should equal 2, 7.             |
| D650            | AGE equals 018-120, and PERSON TYPE equals 01,                                                                          | NON-CDL LICENSE TYPE should equal 1.                |
| P1A0            | AGE is less than 012, and INJURY SEVERITY equals 4,                                                                     | FATAL INJURY AT WORK should equal 0.                |

## P6/NM6 - Sex

**FORMAT:** 1 numeric

**SAS NAME:** Person.SEX

### ELEMENT VALUES:

| Codes | Attributes                          |
|-------|-------------------------------------|
| 1     | Male                                |
| 2     | Female                              |
| 8     | <a href="#">Not Reported</a>        |
| 9     | <a href="#">Reported as Unknown</a> |

**Definition:** This element identifies the sex of the person involved in the crash.

**Remarks:** If the case material does not show the sex of injured or uninjured drivers or passengers and there is no other information about sex, e.g., in the narrative/diagram, then use **8 (Not Reported)**.

**8 (Not Reported)** *Check to see if [9 \(Reported as Unknown\)](#) is more appropriate for the situation.*

If a State's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported**."

Code **8 (Not Reported)** in these two situations:

1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

**9 (Reported as Unknown)** is used if the investigating officer indicates that this occupant's sex is unknown.

**Consistency Checks [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                             |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| U340            | UNLIKELY: HIT-AND-RUN equals 0, and SEX equals 9.                                                                                                                                                                                |
| U694            | UNLIKELY: AGE equals 0 and RESTRAINT SYSTEM USE Subfield-1 Type of Restraint System in Use equals 01-03, 06, 08, 20, 97, 98, 99, or blank and [SEX equals 2 and AGE equals 5-72 for at least one other occupant in the vehicle]. |
| U720            | UNLIKELY: AGE equals 0 and HELMET USE Subfield 1-Helmet Use equals 05, 16, 17, 19, 98, 99, or blank and [SEX equals 2 and AGE equals 5-72 for at least one other occupant in the vehicle].                                       |

**Consistency Checks (FARS Only) [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                                                           | <b>THEN</b>                                         |
|-----------------|---------------------------------------------------------------------|-----------------------------------------------------|
| 5W0P            | RELATED FACTORS-PERSON LEVEL equals 018,                            | SEX must equal 2, and AGE must be greater than 012. |
| 9L0F            | PERSON TYPE equals 01, and RELATED FACTORS-DRIVER LEVEL equals 012, | SEX must equal 2, and AGE must be greater than 012. |

## P7 - Person Type

**FORMAT:** 2 numeric

**SAS NAME:** Person.PER\_TYP

**ELEMENT VALUES:**

| Codes | Attributes                                                            |
|-------|-----------------------------------------------------------------------|
| 01    | <a href="#">Driver of a Motor Vehicle In-Transport</a>                |
| 02    | <a href="#">Passenger of a Motor Vehicle In-Transport</a>             |
| 03    | <a href="#">Occupant of a Motor Vehicle Not In-Transport</a>          |
| 09    | <a href="#">Unknown Occupant Type in a Motor Vehicle In-Transport</a> |

**Definition:** This element describes the role of this person involved in the crash.

**Remarks:** Drivers and passengers are motor vehicle occupants. An involved person in a crash must maintain PERSON TYPE during the crash. Once the unstabilized situation begins, a driver, passenger, or non-motorist/non-occupant cannot change PERSON TYPE until the situation stabilizes. A motor vehicle occupant is any person who is part of a motor vehicle (i.e., in it, on it, or attached to it).

If a person is entering or exiting a vehicle before the unstabilized situation begins, try to determine if the person has successfully changed type before control is lost. For example, a person attempting to get into an automobile that begins to move would be classified as a pedestrian. Likewise, a passenger stepping off a bus as it begins to pull away would be classified as an occupant.

Attributes 01, 02, and 09 are used for occupants of a motor vehicle in-transport. This includes occupants of motor vehicles that are in motion outside the trafficway.

**01 (Driver of a Motor Vehicle In-Transport)** is used for a person who is in actual physical control of a motor vehicle or in the case of an out of control vehicle the person that was in control just prior to the unstabilized situation.

In FARS and CRSS, people less than 12 years old will raise an edit check. People less than 8 years old are forbidden from operating motor vehicles except for NCSA BODY TYPES [88](#), [90](#), [91](#). In these circumstances the vehicles are classified as [0 \(No Driver Present/Not Applicable\)](#) in the element [DRIVER PRESENCE](#) and any underage occupant seated in the driver's position on the crash report is coded as PERSON TYPE [2 \(Passenger of a Motor Vehicle In-Transport\)](#) with [SEATING POSITION](#) value [11 \(Front Seat, Left Side\)](#). People who are less than 2 years old are forbidden in FARS/CRSS from being a driver of any motor vehicle.

**02 (Passenger of a Motor Vehicle In-Transport)** is used for any occupant of a motor vehicle in-transport other than the driver.

If this person was appended to a motor vehicle for motion ("skitching")<sup>3</sup> at the onset of the unstabilized situation, also use SEATING POSITION code [56 \(Appended to a Motor Vehicle](#)

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<sup>3</sup> Abbreviated from "skate-hitching", the act of hitching a ride by holding onto a motor vehicle while riding on a skateboard, roller skates or bicycle.

[for Motion](#)). The person may be appended to the vehicle by any means (hand grasp, tow rope etc.), and may also be using a non-motorist device such as a bicycle, skateboard, hoverboard, or sled at the onset of the unstabilized situation. It must be clear that the person was connected at the onset of the unstabilized situation. If it is unclear or if the person was previously connected or attempting to connect, see RELATED FACTORS - PERSON (NOT A MOTOR VEHICLE OCCUPANT) LEVEL codes [053 \(Non-Motorist Previously Used a Motor Vehicle for Motion\)](#), [054 \(Non-Motorist Attempting to Use a Motor Vehicle for Motion\)](#), and [055 \(Non-Motorist Attempting to Use or Previously Used a Motor Vehicle for Motion, Details Not Reported\)](#).

**03 (Occupant of a Motor Vehicle Not In-Transport)** is used for any occupant of a motor vehicle not in-transport including someone sitting in the driver's seat position.

**09 (Unknown Occupant Type in a Motor Vehicle In-Transport)** is used when it cannot be determined if the person was the driver or passenger, but it is known that the person was an occupant of a motor vehicle in-transport.

**Consistency Checks** [\(See Section 400\)](#):

| Error ID | IF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | THEN                                              |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| 1Q0F     | PERSON TYPE equals 01, and <b>vPIC BODY CLASS equals 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 69 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport/Adventure/Supermoto/On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 90 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 104 (Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle),</b> | SEATING POSITION must not equal 12-56, 99.        |
| 2M0F     | PERSON TYPE equals 01,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | SEATING POSITION must not equal 21-56, 98, or 99. |

| Error ID | IF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | THEN                                                                                                                                                                                                                                                                   |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2Q0F     | PERSON TYPE equals 02 <b>or</b> 03, and <b>vPIC BODY CLASS equals 001 (Convertible/Cabriolet), 003 (Coupe), 005 (Hatchback/Liftback/Notchback), 010 (Roadster), 013 (Sedan/Saloon), 060 (Pickup), 095 (Cargo Van), 105 (Off-road Vehicle - Recreational Off-Road Vehicle (ROV)), 108 (Motorhome), 111 (Step Van / Walk-in Van), 117 (Limousine), 126 (Off-road Vehicle - Farm Equipment), or 127 (Off-road Vehicle - Construction Equipment), or FINAL STAGE BODY CLASS equals 060 (Pickup) 095 (Cargo Van), 108 (Motorhome), 111 (Step Van / Walk-in Van), or 117 (Limousine),</b> | SEATING POSITION must not equal 31-50.                                                                                                                                                                                                                                 |
| 3H0F     | DRIVER PRESENCE equals 1,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | there must be one and only one Person Level form for that vehicle with PERSON TYPE equal to 01, or there must be no Person Level form for that vehicle with PERSON TYPE equal to 01 and at least two Person Level forms for that vehicle with PERSON TYPE equal to 09. |
| 3M0F     | PERSON TYPE equals 01,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | RESTRAINT SYSTEM USE Subfield 1 Type of Restraint System in Use must not equal 04, 10-12.                                                                                                                                                                              |
| 3P0F     | PERSON TYPE equals 03-07, 10, <b>11, 12, 13, or 19,</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | INJURY SEVERITY should not equal 6.                                                                                                                                                                                                                                    |
| 3Q0F     | <b>SEATING POSITION equals 50 (Sleeper Section of Cab [Truck]),</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>vPIC BODY CLASS should equal 011 (Truck) or 066 (Truck-Tractor), or FINAL STAGE BODY CLASS should equal 011 (Truck) or 066 (Truck-Tractor), and POWER UNIT GVWR_FROM and POWER UNIT GVWR_To should equal 13-18.</b>                                                 |
| 4H0F     | DRIVER PRESENCE equals 0, 9,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | there must not be a Person Level form for that vehicle with PERSON TYPE equal to 01.                                                                                                                                                                                   |

| Error ID | IF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | THEN                                                                                                                                  |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| 4Q0F     | PERSON TYPE equals 02, and <b>vPIC BODY CLASS equals 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport/Adventure/Supermoto/On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 90 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 100 (Motorcycle - Enclosed Three Wheeled / Enclosed Autocycle), 103 (Motorcycle - Unenclosed Three Wheeled / Open Autocycle), 104 (Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle),</b> | SEATING POSITION <i>should equal 13, 21, 54, 55, or 56.</i>                                                                           |
| 4W6P     | any RELATED FACTORS-PERSON LEVEL (MV Occupant) equals 021 or 089,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | PERSON TYPE must equal 3, SEATING POSITION must equal 11, and UNIT TYPE must equal 2, 3, or 4.                                        |
| 570F     | FIRST HARMFUL EVENT equals 05, 06,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | at least one PERSON TYPE equal to 01-03, 09 must have INJURY SEVERITY equal to 1-5 or blank.                                          |
| 5M0F     | PERSON TYPE equals 01,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | RELATED FACTORS-PERSON LEVEL (MV Occupant) must equal 000.                                                                            |
| 5M0G     | SPECIAL USE equals 06, and PERSON TYPE equals 02 or 09,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | RELATED FACTORS - PERSON (MV OCCUPANT) LEVEL should equal 092, 094, or 095.                                                           |
| 5M1G     | SPECIAL USE equals 21 and PERSON TYPE equals 01,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SEATING POSITION should equal 13.                                                                                                     |
| 5M2G     | <b>SPECIAL USE equals 06, and PERSON TYPE equals 02, and SEATING POSITION equals 51,</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>at least one RELATED FACTORS - PERSON LEVEL should equal 092 or 094.</b>                                                           |
| 5M3G     | <b>SPECIAL USE equals 06, and PERSON TYPE equals 01 or 02, and SEATING POSITION equals 11-19,</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>at least one RELATED FACTORS - PERSON LEVEL should equal 094, or at least one RELATED FACTORS - DRIVER LEVEL should equal 094.</b> |

| Error ID | IF                                                                                                                                                                                                                    | THEN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5N0F     | PERSON TYPE equals 02,                                                                                                                                                                                                | any RELATED FACTORS-PERSON LEVEL (MV Occupant) must not equal 021, 026, 028, 029, 033, 037, 040-042, 044, 045, 047, 051, 052, 057-070, 072-078, or 080-083.                                                                                                                                                                                                                                                                                                                                                    |
| 5Q0F     | PERSON TYPE equals 02, and <b>vPIC BODY CLASS equals 016 (Bus), 068 (Streetcar / Trolley), or 73 (Bus-School Bus), or FINAL STAGE BODY CLASS equals 016 (Bus), 068 (Streetcar / Trolley), or 73 (Bus-School Bus),</b> | SEATING POSITION must <b>equal 12-18, 51, 52, 54, 55, 56, 98, or 99.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 5Z0F     | SEQUENCE OF EVENTS equals 08,                                                                                                                                                                                         | at least one person must have PERSON TYPE equal to 05, 10.                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 6Q0F     | PERSON TYPE equals 02, 03, 09, and <b>NCSA BODY TYPE equals 60-67, 71, 72, 78, 79,</b>                                                                                                                                | SEATING POSITION must not equal 31-49.                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 7M0F     | any RELATED FACTORS-PERSON LEVEL (MV Occupant) equals 026, 028, 029, 033, 037, 040-042, 044, 045, 047, 051, 052, 057-070, 072-078, or 080-083,                                                                        | PERSON TYPE must equal 03, SEATING POSITION must equal 11, and UNIT TYPE must equal 4.                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 7P0F     | PERSON TYPE equals 01,                                                                                                                                                                                                | AGE must not be less than 002.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 7Q0F     | PERSON TYPE equals 09,                                                                                                                                                                                                | SEATING POSITION <b>must equal 19, 98, or 99.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 7Z0F     | any SEQUENCE OF EVENTS equals 05, 06,                                                                                                                                                                                 | at least one occupant of this vehicle (PERSON TYPES 01, 02, 09) must have INJURY SEVERITY equal to 1-5, or blank.                                                                                                                                                                                                                                                                                                                                                                                              |
| 8P0P     | PERSON TYPE equals 01, and AGE is less than 008,                                                                                                                                                                      | <b>vPIC BODY CLASS must equal 4 (Low Speed Vehicle (LSV) / Neighborhood Electric Vehicle (NEV)), 12 (Motorcycle - Scooter), 87 (Motorcycle - Small / Minibike), 88 (Off-road Vehicle - Go Kart), 97 (Off-road Vehicle - Snowmobile), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)) and 105 (Off-road Vehicle - Recreational Off-Road Vehicle (ROV)) , 124 (Off-road Vehicle - Golf Cart), 125 (Motorcycle - Unknown Body Type), 997 (Other), 998 (Not Reported), or 999 (Unknown).</b> |
| 9A5P     | PERSON TYPE equals 03,                                                                                                                                                                                                | UNIT TYPE must equal 2-4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 9B7P     | UNIT TYPE equals 2-4,                                                                                                                                                                                                 | PERSON TYPE of all occupants of this vehicle must equal 03.                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 9L0F     | PERSON TYPE equals 01, and RELATED FACTORS-DRIVER LEVEL equals 012,                                                                                                                                                   | SEX must equal 2, and AGE must be greater than 012.                                                                                                                                                                                                                                                                                                                                                                                                                                                            |



| Error ID | IF                                                                                                                   | THEN                                                                                                                                                     |
|----------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| CL0P     | PERSON TYPE equals 09,                                                                                               | any RELATED FACTORS-PERSON LEVEL (MV OCCUPANT) must not equal 021, 026, 028, 029, 033, 037, 040-042, 044, 045, 047, 051, 052, 056-070, 072-078, 080-083. |
| D090     | VIOLATIONS CHARGED equals 11-19, and PERSON TYPE equals 01, 03,                                                      | POLICE REPORTED ALCOHOL INVOLVEMENT should equal 1, or POLICE REPORTED DRUG INVOLVEMENT should equal 1.                                                  |
| FP0F     | PERSON TYPE is blank,                                                                                                | case status is flawed.                                                                                                                                   |
| P010     | PERSON TYPE equals 01,                                                                                               | AGE should not be less than 012.                                                                                                                         |
| P01F     | RESTRAINT SYSTEM USE Subfield-1 Type of Restraint System in Use equals 01-06, 08, <b>or</b> 10-12,                   | EJECTION should equal 0 or 7.                                                                                                                            |
| P020     | PERSON TYPE equals 02, 03, 09, and RESTRAINT SYSTEM USE Subfield-1 Type of Restraint System in Use equals 04, 10-12, | AGE should be less than 010, or equal to 998 or 999.                                                                                                     |
| P030     | SPECIAL USE is not equal to 21 and PERSON TYPE equals 01,                                                            | SEATING POSITION should not equal 12-19.                                                                                                                 |
| P040     | PERSON TYPE equals 02, 09,                                                                                           | SEATING POSITION should not equal 11.                                                                                                                    |
| P062     | SEATING POSITION equals 56,                                                                                          | PERSON TYPE must equal 02.                                                                                                                               |
| P071     | PERSON TYPE equals 02, 04-07, 10, <b>11, 12, or 13</b> , and INJURY SEVERITY does not equal 4,                       | ALCOHOL TEST STATUS should not equal 9, ALCOHOL TEST TYPE should not equal 99, and ALCOHOL TEST RESULT should not equal 999.                             |
| P072     | PERSON TYPE equals 02, 03, and INJURY SEVERITY equals 0, and ALCOHOL TEST RESULT equals 996,                         | POLICE REPORTED ALCOHOL INVOLVEMENT should equal 0, 8.                                                                                                   |
| P074     | PERSON TYPE equals 02, 04-07, 10, <b>11, 12, or 13</b> , and INJURY SEVERITY does not equal 4,                       | ALCOHOL TEST STATUS must not equal 8, ALCOHOL TEST TYPE must not equal 95, and ALCOHOL TEST RESULT must not equal 995.                                   |

**Consistency Checks (FARS Only) ([See Section 400](#)):**

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>THEN</b>                                                                                                                     |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| 7M1F            | PERSON TYPE equals 03, and SEATING POSITION is not equal to 11 or 13, and INJURY SEVERITY does not equal 4,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | DRUG TEST STATUS must not equal 8, any DRUG SPECIMEN must not equal 96, and any DRUG TEST RESULTS must not equal 095.           |
| D060            | NON-CDL LICENSE STATUS equals 1-4, 6, or COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 1-8, and PERSON TYPE equals 01,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | AGE should not be less than 015.                                                                                                |
| D640            | AGE equals 014-017, and PERSON TYPE equals 01,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | NON-CDL LICENSE TYPE should equal 2, 7.                                                                                         |
| D650            | AGE equals 018-120, and PERSON TYPE equals 01,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | NON-CDL LICENSE TYPE should equal 1.                                                                                            |
| D733            | at least one RELATED FACTORS - DRIVER LEVEL equals 060 and PERSON TYPE equals 01,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ALCOHOL TEST RESULT should equal 995 or at least one DRUG TEST RESULT should equal 095.                                         |
| P073            | PERSON TYPE equals 02, 04-07, 10, <b>11, 12, or 13</b> , and INJURY SEVERITY does not equal 4,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | DRUG TEST STATUS should not equal 9, and any DRUG SPECIMEN should not equal 99, and any DRUG TEST RESULTS should not equal 999. |
| P075            | PERSON TYPE equals 02, 04-07, 10, <b>11, 12, 13</b> , or 19, and INJURY SEVERITY does not equal 4,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | DRUG TEST STATUS must not equal 8, any DRUG SPECIMEN must not equal 96, and any DRUG TEST RESULTS must not equal 095.           |
| P130            | <b>vPIC BODY CLASS equals 011 (Truck), 016 (Bus), 068 (Streetcar / Trolley), 73 (Bus-School Bus), 066 (Truck-Tractor), 095 (Cargo Van), 111 (Step Van / Walk-in Van), 117 (Limousine), 126 (Off-road Vehicle - Farm Equipment), 127 (Off-road Vehicle - Construction Equipment), or FINAL STAGE BODY CLASS equals 011 (Truck), 016 (Bus), 068 (Streetcar / Trolley), 73 (Bus-School Bus), 066 (Truck-Tractor), 095 (Cargo Van), 111 (Step Van / Walk-in Van), or 117 (Limousine), and POWER UNIT GVWR_from and GVWR_to equals 13, 14, 15, 16, 17, or 18, and PERSON TYPE equals 01 or 03, and INJURY SEVERITY equals 4,</b> | FATAL INJURY AT WORK should equal 1.                                                                                            |

## P8/NM8 - Injury Severity

**FORMAT:** 1 numeric

**SAS NAME:** Person.INJ\_SEV

**ELEMENT VALUES:**

| Codes | Attributes                                   |
|-------|----------------------------------------------|
| 0     | <a href="#">No Apparent Injury (O)</a>       |
| 1     | <a href="#">Possible Injury (C)</a>          |
| 2     | <a href="#">Suspected Minor Injury (B)</a>   |
| 3     | <a href="#">Suspected Serious Injury (A)</a> |
| 4     | <a href="#">Fatal Injury (K)</a>             |
| 5     | <a href="#">Injured, Severity Unknown</a>    |
| 6     | <a href="#">Died Prior to Crash*</a>         |
| 9     | <a href="#">Unknown/Not Reported</a>         |

**Definition:** This element describes the severity of the injury to this person in the crash.

**Remarks:** Enter the most severe police reported injury severity for this person (i.e., occupant, pedestrian or non-motorist). Most jurisdictions use the KABCO injury coding scheme.

**K** = Fatal Injury (Killed)

**A** = Suspected Serious Injury (Incapacitating Injury)

**B** = Suspected Minor Injury (Non-incapacitating Injury)

**C** = Possible Injury

**O** = No Apparent Injury (No Injury)

If there are discrepancies between the injury severity reported in the police report fields and the narrative, use the following guidance.

| Report Field            | Narrative                                                                      | Guidance                                  |
|-------------------------|--------------------------------------------------------------------------------|-------------------------------------------|
| Contains Coded Response | <b>No Conflict</b> With Coded Report Field                                     | USE CODED REPORT FIELD                    |
| <b>Not Coded</b>        | <b>Silent</b> on injuries                                                      | INJURY SEVERITY, 9 (Unknown/Not Reported) |
| Contains Coded Response | <b>Silent</b> on injuries                                                      | USE CODED REPORT FIELD                    |
| Contains Coded Response | Includes clear descriptions of injuries <b>more severe</b> than Coded Response | USE NARRATIVE                             |

| Report Field            | Narrative                                                                                                                   | Guidance               |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------|------------------------|
| <b>Not Coded</b>        | Includes <b>some</b> injury information.<br>Unknown if information is complete.                                             | USE NARRATIVE          |
| Contains Coded Response | Includes clear descriptions only of injuries <b>less severe</b> than Coded Response.<br>Unknown if information is complete. | USE CODED REPORT FIELD |

**0 (No Apparent Injury)** is a situation where there is no reason to believe that the person received any bodily harm from the motor vehicle crash. There is no physical evidence of injury and the person does not report any change in normal function.

**1 (Possible Injury)** is any injury reported or claimed that is not a fatal injury, suspected serious injury, or suspected minor injury. Examples include momentary loss of consciousness, possible concussion, claim of injury limping, complaint of pain, or nausea. Possible injuries are those that are reported by the person or are indicated by his/her behavior, but no wounds or injuries are readily evident.

**2 (Suspected Minor Injury)** is any injury that is evident at the scene of the crash, other than fatal or serious injuries. Examples include lump on the head, abrasions, bruises, minor lacerations (cuts on the skin surface with minimal bleeding and no exposure of deeper tissue/muscle). This does not include momentary unconsciousness. (See [1 \(Possible Injury\)](#)).

**3 (Suspected Serious Injury)** is any injury other than fatal that results in one or more of the following.

- Severe laceration resulting in exposure of underlying tissues/muscle/organs or resulting in significant loss of blood
- Broken or distorted extremity (arm or leg)
- Crush injuries
- Suspected skull, chest, or abdominal injury other than bruises or minor lacerations
- Significant burns (second and third degree burns over 10 percent or more of the body)
- Unconsciousness when taken from the crash scene
- Paralysis

This does not include limping (the injury cannot be seen). (See [1 \(Possible Injury\)](#)).

**4 (Fatal Injury)** A fatal injury is any injury that results in death within 30 days after the motor vehicle crash in which the injury occurred. If the person did not die at the scene but died within 30 days of the motor vehicle crash in which the injury occurred, the injury classification should be changed from the attribute previously assigned to the attribute **4 (Fatal Injury)**.

**5 (Injured, Severity Unknown)** It is known the person was injured but the severity of the injury is not known.

**6 (Died Prior to Crash)\*** refers to non-motor vehicle fatalities (e.g., a heart attack victim, a homicide victim, a suicide, or person involved in a legal intervention) that are involved in a motor vehicle traffic crash.

This attribute is used only if the police explicitly states the person died prior to the crash and the police report indicates the person died as a result of natural causes (e.g., heart attack), disease, drug overdose or alcohol poisoning, suicide, homicide, and legal intervention.

This attribute also applies if the police report indicates that the person died as a result of natural causes (e.g., heart attack) or disease but is silent about the time of on-set or if on-set is the result of injuries sustained in the crash.

In suicide incidents, use the following criteria:

1. If the only fatality is the suicide victim and it can be ascertained that the crash was a suicide, do not code the case.
2. If other fatalities occur, code the case as appropriate. The suicide victim's Injury Severity should be coded **6 (Died Prior to Crash)** if the death occurred at the time of the crash (or prior) or **0 (No Apparent Injury)** if the death occurred after the crash.

This attribute does not apply if the police report specifically states that the cause of death is a result of crash-related injury or that on-set occurred after the crash.

\* This value is an unlikely occurrence and will raise an edit flag.

**9 (Unknown/Not Reported) is used when:**

1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material); or
2. a field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material); or
3. police indicate unknown.

**Note:** If a State's crash report manual instructs to leave data blocks blank when there is no injury, then a blank in those data blocks are NOT considered **9 (Unknown/Not Reported)**.

**FARS SPECIAL INSTRUCTION:**

Each case must have at least one Person Level form with INJURY SEVERITY attribute **4 (Fatal injury)**. See Definition: [ANSI D16.1](#); 2.3.1 and 2.3.2

Consistency Checks ([See Section 400](#)):

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                  | <b>THEN</b>                                                                                                                  |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| 1R0P            | SEATING POSITION equals 51, and <b>vPIC BODY CLASS equals 016 (Bus), 068 (Streetcar / Trolley), or 73 (Bus-School Bus), or FINAL STAGE BODY CLASS equals 016 (Bus), 068 (Streetcar / Trolley), or 73 (Bus-School Bus),</b> | INJURY SEVERITY must not equal 0, 9.                                                                                         |
| 2U3F            | INJURY SEVERITY equals 3,                                                                                                                                                                                                  | TRANSPORTED TO FIRST MEDICAL FACILITY BY should not equal 0.                                                                 |
| 3P0F            | PERSON TYPE equals 03-07, 10, <b>11, 12, 13, or 19,</b>                                                                                                                                                                    | INJURY SEVERITY should not equal 6.                                                                                          |
| 570F            | FIRST HARMFUL EVENT equals 05, 06,                                                                                                                                                                                         | at least one PERSON TYPE equal to 01-03, 09 must have INJURY SEVERITY equal to 1-5, or blank.                                |
| 7Z0F            | any SEQUENCE OF EVENTS equals 05, 06,                                                                                                                                                                                      | at least one occupant of this vehicle (PERSON TYPES 01, 02, 09) must have INJURY SEVERITY equal to 1-5, or blank.            |
| FP8F            | INJURY SEVERITY is blank,                                                                                                                                                                                                  | case status is flawed.                                                                                                       |
| P071            | PERSON TYPE equals 02, 04-07, 10, <b>11, 12, or 13,</b> and INJURY SEVERITY does not equal 4,                                                                                                                              | ALCOHOL TEST STATUS should not equal 9, ALCOHOL TEST TYPE should not equal 99, and ALCOHOL TEST RESULT should not equal 999. |
| P072            | PERSON TYPE equals 02, 03, and INJURY SEVERITY equals 0, and ALCOHOL TEST RESULT equals 996,                                                                                                                               | POLICE REPORTED ALCOHOL INVOLVEMENT should equal 0, 8.                                                                       |
| P074            | PERSON TYPE equals 02, 04-07, 10, <b>11, 12, or 13,</b> and INJURY SEVERITY does not equal 4,                                                                                                                              | ALCOHOL TEST STATUS must not equal 8, ALCOHOL TEST TYPE must not equal 95, and ALCOHOL TEST RESULT must not equal 995.       |
| <b>P077</b>     | <b>INJURY SEVERITY equals 4, and DIED AT SCENE/EN ROUTE equals 7 or 8,</b>                                                                                                                                                 | <b>ALCOHOL TEST Subfield 2 - Test Type should not equal 02, 10, or 11.</b>                                                   |
| P090            | INJURY SEVERITY equals 0,                                                                                                                                                                                                  | TRANSPORTED TO FIRST MEDICAL FACILITY BY must equal 0.                                                                       |
| P300            | POLICE REPORTED ALCOHOL INVOLVEMENT equals 1, and INJURY SEVERITY equals 4,                                                                                                                                                | ALCOHOL TEST STATUS should not equal 0.                                                                                      |
| U160            | UNLIKELY: INJURY SEVERITY equals 6.                                                                                                                                                                                        | --                                                                                                                           |
| U350            | UNLIKELY: INJURY SEVERITY equals 1-6, and SEATING POSITION equals 98.                                                                                                                                                      | --                                                                                                                           |

**Consistency Checks (FARS Only) ([See Section 400](#)):**

| <b>Error ID</b> | <b>IF</b>                                                                                                                   | <b>THEN</b>                                                                                                                     |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| 1R1P            | If DIED AT SCENE/EN ROUTE equals 7, 8,                                                                                      | INJURY SEVERITY must equal 4.                                                                                                   |
| 1U1F            | INJURY SEVERITY equals 4,                                                                                                   | DEATH DATE must not equal 88888888.                                                                                             |
| 1U2F            | INJURY SEVERITY equals 4,                                                                                                   | DEATH TIME must not equal 8888.                                                                                                 |
| 2U1F            | INJURY SEVERITY is not equal to 4,                                                                                          | DEATH DATE must equal 88888888.                                                                                                 |
| 2U2F            | INJURY SEVERITY is not equal to 4,                                                                                          | DEATH TIME must equal 8888.                                                                                                     |
| 4V1F            | INJURY SEVERITY equals 4,                                                                                                   | DEATH DATE and DEATH TIME for this person must be within 720 hours of the CRASH DATE and CRASH TIME.                            |
| 4U0F            | Each original submission must have at least one Person Level form with INJURY SEVERITY coded 4.                             | --                                                                                                                              |
| 7E0P            | INJURY SEVERITY equals 4,                                                                                                   | DEATH CERTIFICATE NUMBER must NOT equal 0000-00-000000.                                                                         |
| 7E1P            | INJURY SEVERITY equals 4,                                                                                                   | RACE must not equal 00.                                                                                                         |
| 7E2P            | INJURY SEVERITY equals 4,                                                                                                   | HISPANIC ORIGIN must not equal 00.                                                                                              |
| 7E3P            | INJURY SEVERITY is not equal to 4,                                                                                          | RACE must equal 00 AND HISPANIC ORIGIN must equal 00.                                                                           |
| 7F0P            | DEATH CERTIFICATE NUMBER is not blank or 0000-00-000000,                                                                    | INJURY SEVERITY must equal 4.                                                                                                   |
| 7F1P            | RACE equals 00,                                                                                                             | INJURY SEVERITY must not equal 4.                                                                                               |
| 7F2P            | HISPANIC ORIGIN equals 00,                                                                                                  | INJURY SEVERITY must not equal 4.                                                                                               |
| 7F3P            | RACE is not equal to 00, and HISPANIC ORIGIN is not equal to 00,                                                            | INJURY SEVERITY must equal 4.                                                                                                   |
| 7M1F            | PERSON TYPE equals 03, and SEATING POSITION is not equal to 11 or 13, and INJURY SEVERITY does not equal 4,                 | DRUG TEST STATUS must not equal 8, any DRUG SPECIMEN must not equal 96, and any DRUG TEST RESULTS must not equal 095.           |
| 7R0P            | FATAL INJURY AT WORK equals 0, 1, 9,                                                                                        | INJURY SEVERITY must equal 4.                                                                                                   |
| 7W0P            | FATAL INJURY AT WORK equals 8,                                                                                              | INJURY SEVERITY must not equal 4.                                                                                               |
| P073            | PERSON TYPE equals 02, 04- <b>07</b> , 10, <b>11</b> , <b>12</b> , <b>or 13</b> , and INJURY SEVERITY does not equal 4,     | DRUG TEST STATUS should not equal 9, and any DRUG SPECIMEN should not equal 99, and any DRUG TEST RESULTS should not equal 999. |
| P075            | PERSON TYPE equals 02, 04- <b>07</b> , 10, <b>11</b> , <b>12</b> , <b>13</b> , or 19, and INJURY SEVERITY does not equal 4, | DRUG TEST STATUS must not equal 8, any DRUG SPECIMEN must not equal 96, and any DRUG TEST RESULTS must not equal 095.           |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>THEN</b>                          |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| P130            | <b>vPIC BODY CLASS equals 011 (Truck), 016 (Bus), 068 (Streetcar / Trolley), 73 (Bus-School Bus), 066 (Truck-Tractor), 095 (Cargo Van), 111 (Step Van / Walk-in Van), 117 (Limousine), 126 (Off-road Vehicle - Farm Equipment), 127 (Off-road Vehicle - Construction Equipment), or FINAL STAGE BODY CLASS equals 011 (Truck), 016 (Bus), 068 (Streetcar / Trolley), 73 (Bus-School Bus), 066 (Truck-Tractor), 095 (Cargo Van), 111 (Step Van / Walk-in Van), or 117 (Limousine), and POWER UNIT GVWR_from and GVWR_to equals 13, 14, 15, 16, 17, or 18, and PERSON TYPE equals 01 or 03, and INJURY SEVERITY equals 4,</b> | FATAL INJURY AT WORK should equal 1. |
| P1A0            | AGE is less than 012, and INJURY SEVERITY equals 4,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | FATAL INJURY AT WORK should equal 0. |
| P53P            | INJURY SEVERITY equals 0-3, 5, 6,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | DIED AT SCENE/EN ROUTE must equal 0. |

**Consistency Check (CRSS Only) [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>Error Message</b>                                                                                                           |                                                                            |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| 4U2F            | At least one INJURY SEVERITY should equal 1, 2, 3, 4, 5, or 9, or at least one EXTENT OF DAMAGE should equal 2, 4, 6, 8, or 9. |                                                                            |
| <b>P078</b>     | <b>INJURY SEVERITY equals 4,</b>                                                                                               | <b>ALCOHOL TEST Subfield 2 - Test Type should not equal 02, 10, or 11.</b> |



## P9 - Seating Position

**FORMAT:** 2 numeric

**SAS NAME:** Person.SEAT\_POS

**ELEMENT VALUES:**

| Codes | Attributes                                                                  |
|-------|-----------------------------------------------------------------------------|
| 11    | <a href="#">Front Seat, Left Side</a>                                       |
| 12    | Front Seat, Middle                                                          |
| 13    | Front Seat, Right Side                                                      |
| 18    | Front Seat, Other                                                           |
| 19    | Front Seat, Unknown                                                         |
| 21    | Second Seat, Left Side                                                      |
| 22    | Second Seat, Middle                                                         |
| 23    | Second Seat, Right Side                                                     |
| 28    | Second Seat, Other                                                          |
| 29    | Second Seat, Unknown                                                        |
| 31    | Third Seat, Left Side                                                       |
| 32    | Third Seat, Middle                                                          |
| 33    | Third Seat, Right Side                                                      |
| 38    | Third Seat, Other                                                           |
| 39    | Third Seat, Unknown                                                         |
| 41    | Fourth Seat, Left Side                                                      |
| 42    | Fourth Seat, Middle                                                         |
| 43    | Fourth Seat, Right Side                                                     |
| 48    | Fourth Seat, Other                                                          |
| 49    | Fourth Seat, Unknown                                                        |
| 50    | <a href="#">Sleeper Section of Cab (Truck)</a>                              |
| 51    | <a href="#">Other Passenger in Enclosed Passenger or Cargo Area</a>         |
| 52    | <a href="#">Other Passenger in Unenclosed Passenger or Cargo Area</a>       |
| 53    | Other Passenger in Passenger or Cargo area, Unknown whether or not Enclosed |
| 54    | <a href="#">Trailing Unit</a>                                               |
| 55    | <a href="#">Riding on Exterior of Vehicle</a>                               |
| 56    | <a href="#">Appended to a Motor Vehicle for Motion</a>                      |
| 98    | <a href="#">Not Reported</a>                                                |
| 99    | <a href="#">Reported as Unknown</a>                                         |

**Definition:** This element identifies the location of this person in or on the vehicle.

**Remarks:** Seating Position is determined by the location of the occupant in relation to the seat row and the forward longitudinal axis of the vehicle. (See [Figure 27](#))

More than one person may be assigned the same seating position; however, this is allowed only when a person is sitting on someone's lap (e.g., child on mother's lap). See Remarks under [RESTRAINT SYSTEM USE](#) and [DRIVER LEVEL - RELATED FACTORS](#) for situations where the case material identifies improper usage of seating or restraints (two people sharing the same restraint, two people sitting abreast in the same seat, or on one another's lap, etc.).

If the case material does not specifically state that one person was on the lap of another, then see the discussion and tables below to address these situations.

In seating rows designated for only two passengers, use **11 (Front Seat, Left Side)**, **13 (Front Seat, Right Side)**, **21 (Second Seat, Left Side)**, **23 (Second Seat, Right Side)**, **31 (Third Seat, Left Side)**, **33 (Third Seat, Right Side)**, **41 (Fourth Seat, Left Side)**, **43 (Fourth Seat, Right Side)**, or **51 (Other Passenger in enclosed passenger or cargo area)**.

**11 (Front Seat, Left Side)** is typically thought of as the driver seating position. This is also used for an assumed driver of a hit-and-run vehicle unless evidence indicates a different position for the person or people. [Note: For motorcycle occupants, see passage below.](#)

**18 (Front Seat, Other)**, **28 (Second Seat, Other)**, **38 (Third Seat, Other)**, and **48 (Fourth Seat, Other)** are used to record the position of someone sitting on the floor or lying across the seat. In addition, enter these attributes when two or more people are sitting abreast of one another in the same seating location (as opposed to on or in someone's lap), since only one occupant can be assigned the seat's position. These attributes are also used if there is only one seat in the seating row (bucket, pedestal, etc.), and the occupant was in the area but not in the seat. This situation could occur because of vehicle design or seat removal.

**19 (Front Seat, Unknown)**, **29 (Second Seat, Unknown)**, **39 (Third Seat, Unknown)**, and **49 (Fourth Seat, Unknown)** are used to record the position of someone when the seating row is known; but, the seat position is not known and **18 (Front Seat, Other)**, **28 (Second Seat, Other)**, **38 (Third Seat, Other)**, and **48 (Fourth Seat, Other)** do not apply. The tables below provide coding guidance for situations when more than one person is reported as occupying the same seat position. Note that if the report identifies that one person is sitting in another's lap (e.g., child on mother's lap) both occupants may be assigned the same seat position.

#### **Several People in Front Left (Driver's Seat)**

**Situation:** You know who the driver is; however, it is unknown if other person is seated side-by-side with driver or on the driver's lap:

| Person       | Seating Position    |
|--------------|---------------------|
| The Driver   | Front, Left (11)    |
| Other Person | Front, Unknown (19) |

**Situation:** You don't know who the driver is, and it is unknown if side-by-side or on another's lap:

| Person  | Seating Position    |
|---------|---------------------|
| Unknown | Front, Unknown (19) |
| Unknown | Front, Unknown (19) |

### Several People in Other Seats

**Situation:** If you know one is in another's lap - Both get same Seating Position.

**Situation:** If you don't know if they are sitting side-by-side or in another's lap - Both get that row, unknown.

**Situation:** If you know they are sitting side-by-side and only one had a restraint:

| Person                | Seating Position |
|-----------------------|------------------|
| Person with restraint | As indicated     |
| Other Person          | That row, other  |

**Situation:** If you know they are sitting side-by-side and both had restraints:

| Person        | Seating Position |
|---------------|------------------|
| Oldest Person | As indicated     |
| Other Person  | That row, other  |

**Situation:** If you know they are sitting side-by-side and neither had restraints:

| Person        | Seating Position |
|---------------|------------------|
| Oldest Person | As indicated     |
| Other Person  | That row, other  |

**50 (Sleeper Section of Cab [Truck])** is used if the occupant's vehicle is a medium or heavy truck and has a cab sleeper, and this occupant is in the sleeper section at the time of the crash.

**51 (Other Passenger in Enclosed Passenger or Cargo Area)** is used when an occupant is in the fifth or higher numbered seat row, in an enclosed area where no defined seating exists or using a fold-down type seat in its folded-down position. This attribute is also used for bus passengers in undetermined seating (not driver) and for bus occupants that fall from an open door.

**Note:** People in treatment compartment of an ambulance, code as **51 (Other Passenger in Enclosed Passenger or Cargo Area)**. (See examples under RELATED FACTORS - PERSON (MV OCCUPANT) LEVEL attribute [092 \(Person in Ambulance Treatment Compartment\)](#).)

**52 (Other Passenger in Unenclosed Passenger or Cargo Area)** is used when an occupant is in the fifth or higher numbered seat row, in an unenclosed area where no defined seating exists or using a fold-down type seat in its folded-down position. Examples include passenger riding in an open pickup bed, top of open double-decker bus, etc.

If seating in the vehicle is longitudinal rather than lateral, use the basic idea of a vehicle interior being divided laterally into roughly equal thirds and visualize lateral rows of seats to determine what seat position is the best descriptor.

For rearward facing seats, use the basic idea described in the previous paragraph to describe the occupant's seat position.

If a seat row has more than three designated seat positions, the occupants should have their positions assigned as usual for the left and right positions, while the two center positions would be entered as Other (i.e., **18 (Front Seat, Other)**, **28 (Second Seat, Other)**, **38 (Third Seat, Other)**, **48 (Fourth Seat, Other)**, or **51 (Other Passenger in Enclosed Passenger or Cargo Area)**) depending upon the seat row.

### **Guidance for NCSA Body Type 80-90**

For [NCSA BODY TYPE 80-90](#) (e.g., Motorcycles, ATV/ATC) enter the driver as **11 (Front Seat, Left Side)**; sidecar passengers as **13 (Front Seat, Right Side)**; any seated passengers behind the driver as **21 (Second Seat, Left Side)**, and a passenger on the lap of the driver (in front of) as **11 (Front Seat, Left Side)**. **55 (Riding on Exterior of Vehicle)** is applicable to a motorcycle or ATC occupant riding on the fenders or handlebars.

**54 (Trailing Unit)** is used when an occupant is in or on a trailing unit (i.e., [VEHICLE TRAILING](#), for this occupant's vehicle must be coded  $\geq 1$ , one or more trailing units).

**55 (Riding on Exterior of Vehicle)** is used when an occupant is riding on a fender, the boot of a convertible, etc.

**56 (Appended to a Motor Vehicle for Motion)** is used when this person is appended to the motor vehicle at the onset of the unstabilized situation *with the intention of using the motor vehicle's motion to initiate movement or to gain propulsion, momentum, speed, etc.* (e.g., "skitching"). The person may be appended by any means (hand grasp, tow rope, etc.), and could be using a non-motorist device (bicycle, skateboard, hoverboard, sled, etc.) at, and during, the time they appended to the Motor Vehicle for the purpose of motion. It must be clear that they were appended at the onset of the unstabilized situation. This code excludes people riding on the roof, trunk, hood, tailgate, etc., which should be coded as SEATING POSITION [55 \(Riding on Exterior of Vehicle\)](#).

If the case material does not show the seating row of a passenger and there is no other information about seating position, (e.g., in the narrative/diagram), then use **98 (Not Reported)**.

**98 (Not Reported)** Check to see if [99 \(Reported as Unknown\)](#) is more appropriate for the situation.

If a State's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "Not Reported."

Code **98 (Not Reported)** in these two situations:

1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

**99 (Reported as Unknown)** is used if the investigating officer indicates that this occupant's seating position is unknown.

**Consistency Checks** [\(See Section 400\)](#):

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>THEN</b>                                       |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| 1Q0F            | PERSON TYPE equals 01, and <b>vPIC BODY CLASS equals 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 69 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport/Adventure/Supermoto/On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 90 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 104 (Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle),</b> | SEATING POSITION must not equal 12-56, 99.        |
| 1R0P            | SEATING POSITION equals 51, and <b>vPIC BODY CLASS equals 016 (Bus), 068 (Streetcar / Trolley), or 73 (Bus-School Bus), or FINAL STAGE BODY CLASS equals 016 (Bus), 068 (Streetcar / Trolley), or 73 (Bus-School Bus),</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | INJURY SEVERITY must not equal 0, 9.              |
| 2M0F            | PERSON TYPE equals 01,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | SEATING POSITION must not equal 21-56, 98, or 99. |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>THEN</b>                                                                                                                                                                                                            |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2Q0F            | PERSON TYPE equals 02 <b>or</b> 03, and <b>vPIC BODY CLASS equals 001 (Convertible/Cabriolet), 003 (Coupe), 005 (Hatchback/Liftback/Notchback), 010 (Roadster), 013 (Sedan/Saloon), 060 (Pickup), 095 (Cargo Van), 105 (Off-road Vehicle - Recreational Off-Road Vehicle (ROV)), 108 (Motorhome), 111 (Step Van / Walk-in Van), 117 (Limousine), 126 (Off-road Vehicle - Farm Equipment), or 127 (Off-road Vehicle - Construction Equipment), or FINAL STAGE BODY CLASS equals 060 (Pickup) 095 (Cargo Van), 108 (Motorhome), 111 (Step Van / Walk-in Van), or 117 (Limousine),</b>                                                                                                                                                                                                                                                                                                                                                            | SEATING POSITION must not equal 31-50.                                                                                                                                                                                 |
| 3Q0F            | <b>SEATING POSITION equals 50 (Sleeper Section of Cab [Truck]),</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>vPIC BODY CLASS should equal 011 (Truck) or 066 (Truck-Tractor), or FINAL STAGE BODY CLASS should equal 011 (Truck) or 066 (Truck-Tractor), and POWER UNIT GVWR_FROM and POWER UNIT GVWR_To should equal 13-18.</b> |
| 3R0P            | AIR BAG DEPLOYED does not equal 20, 98, or 99,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | SEATING POSITION should not equal 12, 22, 32, 41-56.                                                                                                                                                                   |
| 3S0P            | SEATING POSITION equals 55, 56,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | EJECTION must equal 8.                                                                                                                                                                                                 |
| 4Q0F            | PERSON TYPE equals 02, and <b>vPIC BODY CLASS equals 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport/Adventure/Supermoto/On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 90 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 100 (Motorcycle - Enclosed Three Wheeled / Enclosed Autocycle), 103 (Motorcycle - Unenclosed Three Wheeled / Open Autocycle), 104 (Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle),</b> | SEATING POSITION <b>should equal 13, 21, 54, 55, or 56.</b>                                                                                                                                                            |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                    | <b>THEN</b>                                                                                                                                  |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 4R0P            | SEATING POSITION equals 54,                                                                                                                                                                                                  | VEHICLE TRAILING must not equal 0 or 9.                                                                                                      |
| 4W6P            | any RELATED FACTORS-PERSON LEVEL (MV Occupant) equals 021 or 089,                                                                                                                                                            | PERSON TYPE must equal 3, SEATING POSITION must equal 11, and UNIT TYPE must equal 2, 3, or 4.                                               |
| 5M1G            | SPECIAL USE equals 21 and PERSON TYPE equals 01,                                                                                                                                                                             | SEATING POSITION should equal 13.                                                                                                            |
| 5M2G            | <b><i>SPECIAL USE equals 06, and PERSON TYPE equals 02, and SEATING POSITION equals 51,</i></b>                                                                                                                              | <b><i>at least one RELATED FACTORS - PERSON LEVEL should equal 092 or 094.</i></b>                                                           |
| 5M3G            | <b><i>SPECIAL USE equals 06, and PERSON TYPE equals 01 or 02, and SEATING POSITION equals 11-19,</i></b>                                                                                                                     | <b><i>at least one RELATED FACTORS - PERSON LEVEL should equal 094, or at least one RELATED FACTORS - DRIVER LEVEL should equal 094.</i></b> |
| 5Q0F            | PERSON TYPE equals 02, and <b><i>vPIC BODY CLASS equals 016 (Bus), 068 (Streetcar / Trolley), or 73 (Bus-School Bus), or FINAL STAGE BODY CLASS equals 016 (Bus), 068 (Streetcar / Trolley), or 73 (Bus-School Bus),</i></b> | SEATING POSITION must <b><i>equal 12-18, 51, 52, 54, 55, 56, 98, or 99.</i></b>                                                              |
| 6Q0F            | PERSON TYPE equals 02 <b><i>or</i></b> 03, and <b><i>vPIC BODY CLASS equals 011 (Truck) or 066 (Truck-Tractor), or FINAL STAGE BODY CLASS equals 011 (Truck) or 066 (Truck-Tractor),</i></b>                                 | SEATING POSITION must not equal 31-49.                                                                                                       |
| 7Q0F            | PERSON TYPE equals 09,                                                                                                                                                                                                       | SEATING POSITION <b><i>must equal 19, 98, or 99.</i></b>                                                                                     |
| P030            | SPECIAL USE is not equal to 21 and PERSON TYPE equals 01,                                                                                                                                                                    | SEATING POSITION should not equal 12-19.                                                                                                     |
| P040            | PERSON TYPE equals 02, 09,                                                                                                                                                                                                   | SEATING POSITION should not equal 11.                                                                                                        |
| P060            | SEATING POSITION equals 18, 28, 38, 48, 50-54,                                                                                                                                                                               | RESTRAINT SYSTEM USE Subfield-1 Type of Restraint System in Use should not equal 01, 03.                                                     |
| P061            | SEATING POSITION equals 55 or 56,                                                                                                                                                                                            | RESTRAINT SYSTEM USE Subfield 1-Type of Restraint System in Use must equal 20.                                                               |
| P062            | SEATING POSITION equals 56,                                                                                                                                                                                                  | PERSON TYPE must equal 02.                                                                                                                   |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P094            | EJECTION equals 8,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SEATING POSITION must equal 55 or 56, or <b>vPIC BODY CLASS must equal 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport/Adventure/Supermoto/On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 104 (Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle).</b> |
| P260            | SEATING POSITION equals 18, 19, or 99,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | AIR BAG DEPLOYED should equal 20, 98, 99.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>P270</b>     | <b>SEATING POSITION equals 21-23, 28, 29, 31-33, 38, 39, 41-43, 48, 49, 50, 54-56, 98, or 99,</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>AIR BAG DEPLOYED must not equal 01.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>P280</b>     | <b>AIR BAG DEPLOYED equals 01,</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>SEATING POSITION must equal 11-19.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| P290            | AIR BAG DEPLOYED equals 01-03, 07-09, and <b>vPIC BODY CLASS equals 001 (Convertible/Cabriolet), 002 (Minivan), 003 (Coupe), 005 (Hatchback/Liftback/Notchback), 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 008 (Crossover Utility Vehicle (CUV)), 009 (Van), 010 (Roadster), 011 (Truck), 013 (Sedan/Saloon), 015 (Wagon), 060 (Pickup), 117 (Limousine), 119 (Sport Utility Truck (SUT)), or FINAL STAGE BODY CLASS equals 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 008 (Crossover Utility Vehicle (CUV)), 009 (Van), 011 (Truck), 015 (Wagon), 060 (Pickup), 117 (Limousine), or 119 (Sport Utility Truck (SUT)), and VEHICLE MODEL YEAR equals 1998 or newer,</b> | SEATING POSITION should equal 11, 13, 21, 23, 31 or 33.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |



| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>THEN</b>                                                                      |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| P340            | SEATING POSITION equals 50, 52-54,                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | RESTRAINT SYSTEM USE Subfield-1 Type of Restraint System in Use should equal 20. |
| U130            | UNLIKELY: SEATING POSITION equals 41-43, 48.                                                                                                                                                                                                                                                                                                                                                                                                                                                          | --                                                                               |
| U350            | UNLIKELY: INJURY SEVERITY equals 1-6, and SEATING POSITION equals 98.                                                                                                                                                                                                                                                                                                                                                                                                                                 | --                                                                               |
| V310            | SEATING POSITION equals 54 and VEHICLE TRAILING equals 1-4,                                                                                                                                                                                                                                                                                                                                                                                                                                           | AIR BAG DEPLOYED must equal 20.                                                  |
| V320            | <i>vPIC BODY CLASS equals 011 (Truck), 016 (Bus), 066 (Truck-Tractor), 068 (Streetcar / Trolley), 73 (Bus-School Bus), 95 (Cargo Van), 108 (Motorhome), or 111 (Step Van / Walk-in Van), or FINAL STAGE BODY CLASS equals 011 (Truck), 016 (Bus), 066 (Truck-Tractor), 068 (Streetcar / Trolley), 73 (Bus-School Bus), 95 (Cargo Van), 108 (Motorhome), or 111 (Step Van / Walk-in Van), and POWER UNIT GVWR_from and GVWR_to equals 13 to 18, and SEATING POSITION does not equal 11, 13, or 98,</i> | AIR BAG DEPLOYED should equal 20 <b>or</b> 98.                                   |

**Consistency Check (FARS Only) ([See Section 400](#)):**

| <b>Error ID</b> | <b>IF</b>                                                                                                   | <b>THEN</b>                                                                                                           |
|-----------------|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| 7M1F            | PERSON TYPE equals 03, and SEATING POSITION is not equal to 11 or 13, and INJURY SEVERITY does not equal 4, | DRUG TEST STATUS must not equal 8, any DRUG SPECIMEN must not equal 96, and any DRUG TEST RESULTS must not equal 095. |

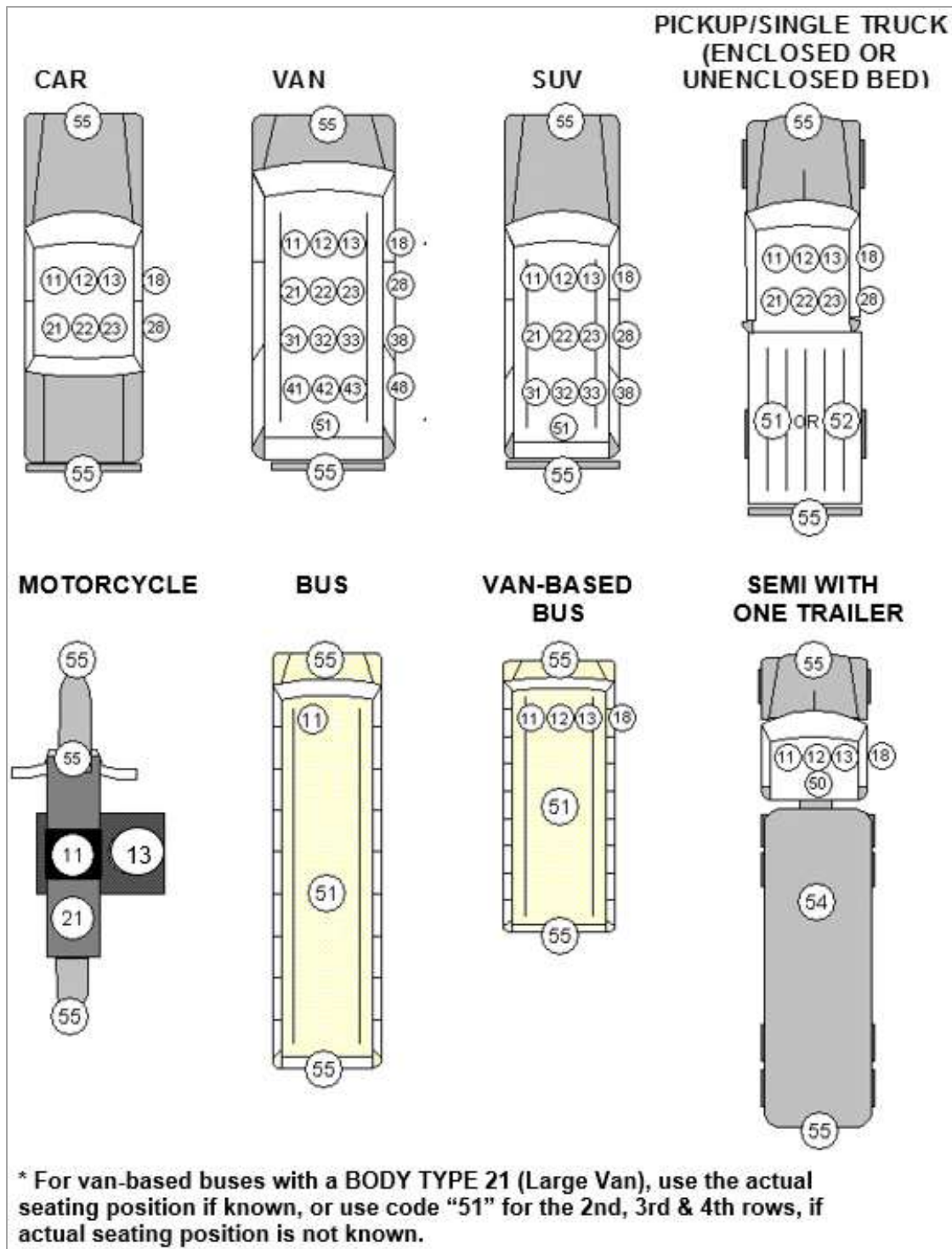


Figure 27: Seating Positions for Different Vehicle Configurations

## P10 - Restraint System Use

**FORMAT:** Subfield 1: 2 numeric; Subfield 2: 1 numeric

**SAS NAME:** Person.REST\_USE, Person.REST\_MIS

**ELEMENT VALUES:**

### Subfield 1 - Type of Restraint System in Use

| Codes | Attributes                                              |
|-------|---------------------------------------------------------|
| 20    | <a href="#">None Used/Not Applicable</a>                |
| 03    | <a href="#">Shoulder and Lap Belt Used</a>              |
| 01    | <a href="#">Shoulder Belt Only Used</a>                 |
| 02    | <a href="#">Lap Belt Only Used</a>                      |
| 06    | <a href="#">Racing-Style Harness Used</a>               |
| 08    | <a href="#">Restraint Used - Type Unknown</a>           |
| 10    | <a href="#">Child Restraint System - Forward Facing</a> |
| 11    | <a href="#">Child Restraint System - Rear Facing</a>    |
| 12    | <a href="#">Booster Seat</a>                            |
| 04    | <a href="#">Child Restraint - Type Unknown</a>          |
| 97    | <a href="#">Other</a>                                   |
| 98    | <a href="#">Not Reported</a>                            |
| 99    | <a href="#">Reported as Unknown</a>                     |

### Subfield 2 - Any Indication of Mis-Use?

| Codes | Attributes                                 |
|-------|--------------------------------------------|
| 7     | <a href="#">None Used/Not Applicable</a>   |
| 0     | <a href="#">No Indication of Mis-Use</a>   |
| 1     | <a href="#">Yes, Indication of Mis-Use</a> |

**Definition:** This element records the restraint equipment in use by the occupant and any indication of mis-use of the available restraint system, at the time of the crash.

**Remarks:** This element excludes occupants of motor vehicles with [NCSA BODY TYPE](#) 80-84, 88-91. Occupants of motor vehicles such as autocycles, ROVs, and go-karts may use a belt restraint system along with a helmet. For occupants of these vehicles, record both P10 RESTRAINT SYSTEM USE and [P11 HELMET USE](#). This applies even if the State only requires and records helmet use.

### ***Subfield 1: Type of Restraint System in Use***

**Definition:** This subfield records the restraint system in use by the occupant at the time of the crash.

**Remarks:** For occupants using a restraint but using it improperly or the restraint is not appropriate for the person, record the applicable restraint used and identify mis-use in [Subfield 2](#). For examples, see the table [Subfield 1 and 2 Example Scenarios](#) below.

**20 (None Used/Not Applicable)** is used when the case material indicate that the occupant did not use a restraint. This includes situations where the occupant of that seat position did not use the available restraint, or that no restraint was available in the seat position of this occupant.

Also use this attribute for people who are riding in the sleeper section of the cab of a truck, for people who are riding on the exterior of the vehicle, and for people in unenclosed cargo areas, such as a bed of a pickup truck where a restraint would not be present to use, even if the corresponding police crash report field is blank.

**NOTE:** This element records the restraint equipment in use by the occupant. For code **20 (None Used/Not Applicable)**, the “Not Applicable” does not refer to items or equipment in use that are irrelevant to restraint use. For example, if this person was not in a [NCSA BODY TYPE](#) of [80-91](#), [96](#), or [97](#), and the PCR notes that this person was wearing a helmet or other protective/preventive equipment irrelevant to restraint use, then this does not answer the question of if this person was using a restraint or not. In this case, code this person as [98 \(Not Reported\)](#), because a code has been selected on the State’s crash report that does not map to any FARS/CRSS attribute for this element.

**03 (Shoulder and Lap Belt Used)** is used when the occupant is restrained by a standard 3-point shoulder belt and lap belt connected to a buckle.

**01 (Shoulder Belt Only Used)** is used when the occupant is restrained only by a shoulder belt.

**02 (Lap Belt Only Used)** is used when the occupant is restrained only by a lap belt.

**06 (Racing-Style Harness Used)** is used when the occupant restraint system in use consists of a 5-Point Seat Belt, 4-Point Latch Harness, 3-5-Point Race Harness, Off-Road Race Harness, 3-Point Non-Retractable Seat Belt, or other similar device rather than a 3-point shoulder and lap belt system.

**08 (Restraint Used - Type Unknown)** is used when the case material indicate that some type of restraint was in use, but the type of restraint is not clear.

**10 (Child Restraint System - Forward Facing)** is used when a child passenger is seated in a forward-facing child safety seat. This does not imply correct use or placement of the seat. **Codes 10, 11, 12, and 04 take precedence over other types of restraints.**

**11 (Child Restraint System - Rear Facing)** is used when a child passenger is seated in a rearward facing child safety seat. This does not imply correct use or placement of the seat. **Codes 10, 11, 12, and 04 take precedence over other types of restraints.**

**12 (Booster Seat)** is used when a child passenger is seated in a “belt-positioning seat” that positions a child on a vehicle seat to improve the fit of the child in a lap and shoulder seat belt system. This does not imply correct use or placement of the seat. **Codes 10, 11, 12, and 04 take precedence over other types of restraints.**

**04 (Child Restraint - Type Unknown)** is used when a child passenger is seated in a child safety seat; however, the type used (e.g., forward, rear, or booster, etc.) is not known. This does not imply correct use or placement of the seat. **Codes 10, 11, 12, and 04 take precedence over other types of restraints.**

**97 (Other)** is used when the case material indicated that some other type of restraint not listed was being used at the time of the crash.

If the case material does not show the restraint system of injured or uninjured driver or passengers and there is no other information about restraint system (e.g., in the narrative/diagram), then use [98 \(Not Reported\)](#).

If a police crash report data element is coded with the attribute “Other” but the officer does not specify what this refers to:

1. Code **97 (Other)** if the police crash report attribute choices can be matched to or include all the attributes in FARS/CRSS.
2. Code **98 (Not Reported)** if the police crash report choices cannot be matched to or include all the attributes in FARS/CRSS.

**98 (Not Reported)** *Check to see if [20 \(None Used/Not Applicable\)](#) or [99 \(Reported as Unknown\)](#) are more appropriate for the situation.*

If a State’s crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered “**Not Reported.**”

Code **98 (Not Reported)** in these two situations:

1. No field or coding block exists on the State’s crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State’s crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State’s crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

**99 (Reported as Unknown)** is used when the case material indicate that the restraint system use was unknown for this vehicle occupant.

#### **Guidelines When Police and EMS/M.E. Differ:**

Occasionally, information from EMS personnel or medical examiners (M.E.) includes statements about protection/restraint use; for example, if EMS arrived and removed victims before police arrived or the M.E. reports definite indications of belt usage. If the PCR leaves RESTRAINT SYSTEM USE blank or is marked as Unknown, then the EMS/M.E. assessment may be used rather than coding [98 \(Not Reported\)](#) or [99 \(Reported as Unknown\)](#).

Rules of thumb are as follows, unless you have information to the contrary:

If the M.E./EMS report that a restraint was used but the Police report “NOT USED” or “UNKNOWN,” then accept the M.E./EMS assessment. On the other hand, if the M.E./EMS report “NOT USED” but the Police report that a restraint was used, then try to

verify the police assessment that a restraint was used. If the Police report that a restraint was used or was not used but the M.E./EMS report “UNKNOWN,” then accept the Police assessment.

The vehicle’s decoded VIN data provided in **RBIS** may be used as a source to assist in coding this element when paired with reported information on the police crash report. For example, the officer in the narrative reports that all occupants were “properly restrained” and the VIN identifies that the vehicle is equipped with lap and shoulder belts.

## **Subfield 2 Any Indication of Mis-use?**

**Definition:** This subfield indicates any mis-use of the available restraint system for this person.

### **Remarks:**

**7 (None Used/Not Applicable)** is used when [Subfield 1 Type of Restraint System in Use](#) is coded as [20 \(None Used/Not Applicable\)](#), [98 \(Not Reported\)](#), or [99 \(Reported as Unknown\)](#).

**0 (No Indication of Mis-Use)** is used when the case material positively indicate that the restraints were used properly by this person, when the case material identifies that the restraints were being used but don’t indicate any mis-use (i.e., an absence of information regarding mis-use), or when the case material report that the restraints were being used but it is unknown if the restraints were mis-used by this person. Do not use this attribute when the restraints were not used (see [7 \(None Used/Not Applicable\)](#)).

**1 (Yes, Indication of Mis-use)** is used when the case material indicate that the restraints were mis-used at the time of the crash. An indication of **1 (Yes)** requires a positive response in the case material. Do not use this attribute when the restraints were not used (see [7 \(None Used/Not Applicable\)](#)).

## **Subfield 1 and 2 Example Scenarios**

| Scenario                                                                                                                                                    | Restraint System Use                         | Mis-use |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|---------|
| Automatic shoulder harness and a manual belt were available. The shoulder harness was used but the lap belt was not.                                        | 01 (Shoulder Belt Only Used)                 | 1 (Yes) |
| “Safety Belt” is checked on the PCR. It is not known what this represents and no clarification in the narrative. No mention of mis-use.                     | 08 (Restraint Used - Type Unknown)           | 0 (No)  |
| 3-point lap and shoulder belt was available, and the driver had the shoulder belt portion of the seatbelt behind his back.                                  | 02 (Lap Belt Only Used)                      | 1 (Yes) |
| Two people are secured in one 3-point lap and shoulder belt.                                                                                                | 03 (Shoulder and Lap Belt Used)              | 1 (Yes) |
| A child was in a booster seat but not using the vehicle’s restraint system.                                                                                 | 12 (Booster Seat)                            | 1 (Yes) |
| The child restraint system was properly secured to the vehicle in the forward-facing position; however, the child was not using the 5-point harness system. | 10 (Child Restraint System - Forward Facing) | 1 (Yes) |

| Scenario                                                                                                                       | Restraint System Use              | Mis-use |
|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|---------|
| A 1-year-old child is in the center back seating position without a child seat and using just a lap belt.                      | 02 (Lap Belt Only Used)           | 1 (Yes) |
| The investigating officer states the child restraint system was not properly secured in the vehicle. No clarification on type. | 04 (Child Restraint Type Unknown) | 1 (Yes) |
| 3-point lap and shoulder belt was available, and the driver was sitting on the lap belt portion of the seatbelt.               | 01 (Shoulder Belt Only Used)      | 1 (Yes) |

**Consistency Checks ([See Section 400](#)):**

| Error ID | IF                                                                                                                               | THEN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2R0P     | RESTRAINT SYSTEM USE Subfield 1 Type of Restraint System in Use equals 01-06 <b>or</b> 08-12,                                    | <b><i>vPIC BODY CLASS must not equal 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport/Adventure/Supermoto/On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 097 (Off-road Vehicle - Snowmobile), 098 (Motorcycle - Street), 104 (Motorcycle - Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle).</i></b> |
| 2R1P     | RESTRAINT SYSTEM USE Subfield 2 Any Indication of Mis-Use equals 1,                                                              | RESTRAINT SYSTEM USE Subfield 1 Type of Restraint System in Use must equal 01-06, 08-12, 97.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 2R3P     | RESTRAINT SYSTEM USE Subfield 1-Type of Restraint System in Use equals 1-4, 6, 8, 10-12, or 97;                                  | RESTRAINT SYSTEM USE Subfield 2 - Any Indication of Mis-Use must equal 0 or 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 2S3P     | RESTRAINT SYSTEM USE Subfield 1-Type of Restraint System in Use equals 20, 98, or 99,                                            | RESTRAINT SYSTEM USE Subfield 2 - Any Indication of Mis-Use must equal 7.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 2S4P     | AGE equals 0-4 and RESTRAINT SYSTEM USE Subfield 1-Type of Restraint System in Use does not equal 04, 10, 11, 12, 20, 98, or 99, | RESTRAINT SYSTEM USE Subfield 2 - Any Indication of Mis-Use must equal 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                        | <b>THEN</b>                                                                                                                              |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| 2S5P            | AGE equals 5-7 and RESTRAINT SYSTEM USE Subfield 1-Type of Restraint System in Use does not equal 04, 10, 12, 20, 98, or 99,                                                                                                     | RESTRAINT SYSTEM USE Subfield 2 - Any Indication of Mis-Use must equal 1.                                                                |
| 3M0F            | PERSON TYPE equals 01,                                                                                                                                                                                                           | RESTRAINT SYSTEM USE Subfield 1 Type of Restraint System in Use must not equal 04, 10-12.                                                |
| D570            | any VIOLATIONS CHARGED equals 83,                                                                                                                                                                                                | not all occupants of this vehicle should have RESTRAINT SYSTEM USE Subfield-1 Type of Restraint System in Use equal to 01-06, 08, 10-12. |
| P01F            | RESTRAINT SYSTEM USE Subfield-1 Type of Restraint System in Use equals 01-06, 08, <b>or</b> 10-12,                                                                                                                               | EJECTION should equal 0 or 7.                                                                                                            |
| P020            | PERSON TYPE equals 02, 03, 09, and RESTRAINT SYSTEM USE Subfield-1 Type of Restraint System in Use equals 04, 10-12,                                                                                                             | AGE should be less than 010, or equal to 998 or 999.                                                                                     |
| P050            | EJECTION equals 1,                                                                                                                                                                                                               | RESTRAINT SYSTEM USE Subfield-1 Type of Restraint System in Use should not equal 01-06, 08, 10-12.                                       |
| P060            | SEATING POSITION equals 18, 28, 38, 48, 50-54,                                                                                                                                                                                   | RESTRAINT SYSTEM USE Subfield-1 Type of Restraint System in Use should not equal 01, 03.                                                 |
| P061            | SEATING POSITION equals 55 or 56,                                                                                                                                                                                                | RESTRAINT SYSTEM USE Subfield-1 Type of Restraint System in Use must equal 20.                                                           |
| P340            | SEATING POSITION equals 50, 52-54,                                                                                                                                                                                               | RESTRAINT SYSTEM USE Subfield 1 Type of Restraint System in Use should equal 20.                                                         |
| U170            | UNLIKELY: RESTRAINT SYSTEM USE Subfield-1 Type of Restraint System in Use equals 01.                                                                                                                                             | --                                                                                                                                       |
| U694            | UNLIKELY: AGE equals 0 and RESTRAINT SYSTEM USE Subfield-1 Type of Restraint System in Use equals 01-03, 06, 08, 20, 97, 98, 99, or blank and [SEX equals 2 and AGE equals 5-72 for at least one other occupant in the vehicle]. | --                                                                                                                                       |



| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>THEN</b>                                                                                                                                   |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>V951</b>     | <b>vPIC BODY CLASS equals 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport/Adventure/Supermoto/On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 097 (Off-road Vehicle - Snowmobile), 098 (Motorcycle - Street), 104 (Motorcycle - Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle),</b> | <b>RESTRAINT SYSTEM USE Subfield 1-Type of Restraint System in Use must equal 20 and Subfield 2 - Any Indication of Mis-Use must equal 7.</b> |

**Consistency Check (FARS Only) [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                 |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>U520</b>     | <b>UNLIKELY: RESTRAINT SYSTEM USE Subfield-1 Type of Restraint System in Use equals 98 if not a created record and HIT AND RUN does not equal 1.</b> |

## P11 - Helmet Use

**FORMAT:** Subfield 1: 2 numeric; Subfield 2: 1 numeric

**SAS NAME:** Person.HELM\_USE, Person.HELM\_MIS

**ELEMENT VALUES:**

### Subfield 1 - Helmet Use

| Codes | Attributes                                                         |
|-------|--------------------------------------------------------------------|
| 20    | <a href="#">Not Applicable</a>                                     |
| 17    | <a href="#">No Helmet</a>                                          |
| 05    | <a href="#">DOT-Compliant Motorcycle Helmet</a>                    |
| 16    | <a href="#">Helmet, Other than DOT-Compliant Motorcycle Helmet</a> |
| 19    | <a href="#">Helmet, Unknown if DOT-Compliant</a>                   |
| 98    | <a href="#">Not Reported</a>                                       |
| 99    | <a href="#">Reported as Unknown if Helmet Worn</a>                 |

### Subfield 2 - Any Indication of Mis-Use?

| Codes | Attributes                                 |
|-------|--------------------------------------------|
| 7     | <a href="#">None Used/Not Applicable</a>   |
| 0     | <a href="#">No Indication of Mis-Use</a>   |
| 1     | <a href="#">Yes, Indication of Mis-Use</a> |

**Definition:** This element records the helmet use, and any indications of mis-use of the helmet, by motor vehicle occupants of [NCSA BODY TYPES](#) 80-91, 96, and 97 at the time of the crash.

**Remarks:** Motorcycle helmets that are compliant with Federal Motor Vehicle Safety Standards typically weigh approximately 3 lbs, have an inner liner at least one-inch thick of firm polystyrene foam, have an inside label that states the manufacturer, model, and date of manufacture, and have a DOT sticker on the back of the helmet.

Occupants of motor vehicles such as autocycles, ROVs, and go-karts may use a belt restraint system along with a helmet. For occupants of these vehicles, record both [P10 RESTRAINT SYSTEM USE](#) and [P11 HELMET USE](#). This applies even if your State only requires and records helmet use.

### **Subfield 1: Helmet Use**

**Definition:** This subfield records the helmet use by motor vehicle occupants of [NCSA BODY TYPES](#) 80-91, 96, and 97 at the time of the crash.

## Remarks:

**20 (Not Applicable)** is used when the case material indicate that this person was an occupant of a motor vehicle with a [NCSA BODY TYPE](#) other than 80-91, 96, or 97.

**17 (No Helmet)** is used when the case material indicate that the occupant was not wearing a helmet.

**05 (DOT-Compliant Motorcycle Helmet)** is used when the case material indicate this occupant was wearing a motorcycle helmet that is compliant with Federal Motor Vehicle Safety Standards. It must be specifically indicated to be “DOT-Compliant” in the case material to code this attribute, otherwise use [19 \(Helmet, Unknown if DOT-Compliant\)](#).

**16 (Helmet, Other than DOT-Compliant Motorcycle Helmet)** is used when the case material indicate this occupant was wearing a motorcycle helmet that is not a DOT-compliant helmet. This also would include bicycle helmets, skateboard helmets, and novelty helmets.

**19 (Helmet, Unknown if DOT-Compliant)** is used when the case material indicate this occupant was wearing a motorcycle helmet, but the case material does not identify if it is a DOT-compliant motorcycle helmet.

**98 (Not Reported)** is used if the case material does not show the helmet use of injured or uninjured driver or passengers and there is no other information about helmet use (e.g., in the narrative/diagram). *Check to see if [20 \(Not Applicable\)](#) or [99 \(Reported as Unknown if Helmet Worn\)](#) is more appropriate for the situation.*

If a State’s crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered “Not Reported.”

Code **98 (Not Reported)** in these two situations:

1. No field or coding block exists on the State’s crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State’s crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State’s crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

**99 (Reported as Unknown if Helmet Worn)** is used when the case material indicate that helmet use was unknown for this person.

## Guidelines When Police and EMS/M.E. Differ:

Occasionally, information from EMS personnel or medical examiners (M.E.) includes statements about helmet use. For example, if EMS arrived and removed victims before police arrived or the M.E. reports definite indications of helmet usage. If the PCR leaves HELMET USE blank or is marked as Unknown, then the EMS/M.E. assessment may be used rather than coding [98 \(Not Reported\)](#) or [99 \(Reported as Unknown if Helmet Worn\)](#).

**Rules of thumb are as follows, unless you have information to the contrary:**

If the M.E./EMS report that a helmet was used but the Police report “NOT USED” or “UNKNOWN,” then accept the M.E./EMS assessment. On the other hand, if the M.E./EMS report “NOT USED” but the Police report that a helmet was used, then try to verify the police assessment that a helmet was used. If the Police report that a helmet was used or was not used but the M.E./EMS report “UNKNOWN,” then accept the Police assessment.

**Subfield 2 Any Indication of Mis-Use?**

**Definition:** This subfield records any indications of mis-use of the helmet used by motor vehicle occupants of [NCSA BODY TYPES](#) 80-91, 96, and 97 at the time of the crash.

**Remarks:**

**7 (None Used/Not Applicable)** is used when the case material indicate that this person was an occupant of a motor vehicle with a [NCSA BODY TYPE](#) other than 80-91, 96, or 97, or when an occupant of a vehicle with a [NCSA BODY TYPE](#) of 80-91, 96, or 97 was coded in [Subfield 1 as 17 \(No Helmet\)](#), [98 \(Not Reported\)](#), or [99 \(Reported as Unknown if Helmet Worn\)](#).

**0 (No Indication of Mis-Use)** is used when the case material positively indicate that the helmet was used properly by this person, when the case material identifies that the helmet was being used but don’t indicate any mis-use (i.e., an absence of information regarding mis-use), or when the case material report that the helmet was being used but it is unknown if the helmet was mis-used by this person. Do not use this attribute when the helmet was not used (see [7 \(None Used/Not Applicable\)](#)). Using an inappropriate type of helmet (e.g., wearing a bicycle helmet while riding a motorcycle) is not by itself an indication of mis-use.

**1 (Yes, Indication of Mis-Use)** is used when the case material indicate that the helmet was mis-used at the time of the crash. An indication of 1 (Yes) requires a positive response in the case material. Do not use this attribute when the helmet was not used (see [7 \(None Used/Not Applicable\)](#)). Using an inappropriate type of helmet (e.g., wearing a bicycle helmet while riding a motorcycle) is not by itself an indication of mis-use.

**Example:**

The investigating officer states the operator of the motorcycle had the helmet on backwards.

**Consistency Checks ([See Section 400](#)):**

| Error ID | IF                                                                                                                                                                                         | THEN                                                         |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| 2S2P     | HELMET USE Subfield 2-Any Indication of Mis-Use equals 1,                                                                                                                                  | HELMET USE Subfield 1 - Helmet Use must equal 05, 16, or 19. |
| U720     | UNLIKELY: AGE equals 0 and HELMET USE Subfield 1-Helmet Use equals 05, 16, 17, 19, 98, 99, or blank and [SEX equals 2 and AGE equals 5-72 for at least one other occupant in the vehicle]. | --                                                           |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>THEN</b>                                                            |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| 2S6P            | HELMET USE Subfield 1 Helmet Use equals 5, 16, or 19,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | HELMET USE Subfield 2 Any Indication of Mis-Use must equal 0 or 1.     |
| 2S0P            | HELMET USE Subfield 1-Helmet Use equals 05, 16, 17, 19, or 99,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | then AIR BAG DEPLOYED should equal 20, 98.                             |
| 2S1P            | HELMET USE Subfield 1-Helmet Use equals 17, 98, or 99,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | HELMET USE Subfield 2-Any Indication of Mis-Use must equal 7.          |
| 981P            | <b><i>vPIC BODY CLASS equals 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport/Adventure/Supermoto/On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 097 (Off-road Vehicle - Snowmobile), 098 (Motorcycle - Street), 104 (Moped), 105 (Off-road Vehicle - Recreational Off-Road Vehicle (ROV)), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle),</i></b> | HELMET USE Subfield 1-Helmet Use must equal 05, 16, 17, 19, 98, or 99. |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>THEN</b>                                                                                                               |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| 982P            | <p><b><i>vPIC BODY CLASS does not equal 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport/Adventure/Supermoto/On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 097 (Off-road Vehicle - Snowmobile), 098 (Motorcycle - Street), 100 (Motorcycle - Enclosed Three Wheeled / Enclosed Autocycle), 103 (Motorcycle - Unenclosed Three Wheeled / Open Autocycle), 104 (Moped), 105 (Off-road Vehicle - Recreational Off-Road Vehicle (ROV)), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 124 (Off-road Vehicle - Go Kart), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle),</i></b></p> | <p>HELMET USE Subfield 1-Helmet Use must equal 20 and HELMET USE Subfield 2 - Any Indication of Mis-Use must equal 7.</p> |

| <b>Error ID</b> | <b>IF</b>                                                             | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| V050            | HELMET USE Subfield 1-Helmet Use equals 05, 16, 17, 19, <b>or</b> 99, | <b>vPIC BODY CLASS must equal 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport/Adventure/Supermoto/On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 097 (Off-road Vehicle - Snowmobile), 098 (Motorcycle - Street), 100 (Motorcycle - Enclosed Three Wheeled / Enclosed Autocycle), 103 (Motorcycle - Unenclosed Three Wheeled / Open Autocycle), 104 (Moped), 105 (Off-road Vehicle - Recreational Off-Road Vehicle (ROV)), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 124 (Off-road Vehicle - Go Kart), 125 (Motorcycle - Unknown Body Type), 996 (Motorized Bicycle), or 997 (Other).</b> |

**Consistency Check (FARS Only) [\(See Section 400\)](#):**

| <b><i>Error ID</i></b> | <b><i>Error Message</i></b>                                                                                                  |
|------------------------|------------------------------------------------------------------------------------------------------------------------------|
| U730                   | UNLIKELY: HELMET USE Subfield 1-Helmet Use equals 98 <b><i>if not a Created Record and</i></b> HIT AND RUN does not equal 1. |



## P12 - Air Bag Deployed

**FORMAT:** 2 numeric

**SAS NAME:** Person.AIR\_BAG

**ELEMENT VALUES:**

| Codes | Attributes                                           |
|-------|------------------------------------------------------|
| 01    | <a href="#">Deployed-Front</a>                       |
| 02    | <a href="#">Deployed-Side (door, seatback)</a>       |
| 03    | <a href="#">Deployed-Curtain (roof)</a>              |
| 07    | <a href="#">Deployed-Other (knee, airbelt, etc.)</a> |
| 08    | <a href="#">Deployed-Combination</a>                 |
| 09    | <a href="#">Deployment-Unknown Location</a>          |
| 20    | <a href="#">Not Deployed</a>                         |
| 98    | <a href="#">Not Reported</a>                         |
| 99    | <a href="#">Reported as Deployment Unknown</a>       |

**Definition:** This element is used to record air bag deployment for this person as reported in the case material.

**Remarks:** Code this element regardless of the motor vehicle's [NCSA BODY TYPE](#) or the age of the motor vehicle. When an air bag deployment is reported somewhere in the vehicle, and the narrative or other case material does not specify/clarify a seating position or occupant associated with the deployment, then code [98 \(Not Reported\)](#) is applied.

### Air Bag(s) Deployed for This Seat Position

[01 \(Deployed-Front\)](#), [02 \(Deployed-Side\)](#), [03 \(Deployed-Curtain\)](#), [07 \(Deployed-Other\)](#), [08 \(Deployed-Combination\)](#), and [09 \(Deployment-Unknown Location\)](#) are used only if you have indication in the available information that an air bag deployed for this occupant's seat position (not for others in the vehicle.) There may be multiple air bags available for this occupant's seat position.

[01 \(Deployed-Front\)](#), [02 \(Deployed-Side\)](#), [03 \(Deployed-Curtain\)](#), and [07 \(Deployed-Other\)](#) are used if case material indicate that an air bag deployed for this person from only one of these locations.

**01 (Deployed-Front)** refers to an air bag forward of a first-row occupant. The driver frontal air bag is located in the hub of the steering wheel. The right front passenger frontal air bag is located in the dashboard (instrument panel).

**02 (Deployed-Side (door, seatback))** refers to an air bag mounted in the outboard side of the seat or in the door. Side impact air bags located between [seating positions](#) 11 and 13 within the inboard seatbacks or center console designed to mitigate occupant versus occupant injury are also collected in this attribute.

In a [convertible body type](#), a head impact curtain may deploy upward from the top of the door panel near the lower edge of the side glazing. This type of head protection is coded [03 \(Deployed-Curtain \(roof\)\)](#), even though the air bag is located in the side door panel.

**03 (Deployed-Curtain (roof))** refers to a head only, side impact air bag for outboard occupants. These are usually mounted in the roof rail above the side windows, deploying between the glazing and the occupant. These look like a curtain when deployed and are designed to help protect an adult's head in a side-impact crash. This includes a head impact curtain in a [convertible car body type](#), which deploys upward from the door panel near the lower edge of the side glazing. A single curtain may cover one or all rows, or, a vehicle may have one for the first row with another covering multiple rearward rows.

The narrative may refer to these as a rollover curtain, roof bag, roof-rail bag, roof curtain, anti-ejection curtain, or a safety canopy. These rollover curtains are a special type of side curtain air bag with sensors that measure vehicle tilting and protect occupants from injury and ejection during a rollover crash.

**07 (Deployed-Other (knee, airbelt, etc.))** is used if the case material indicate the air bag type that deployed is other than the ones listed above. If multiple "other" types of air bags deploy, use code [08 \(Deployed-Combination\)](#) for this person.

**Examples include:**

- Inflatable Seat Belt/Airbelts - Inflatable seat belts are currently available for outboard passengers beyond the first row. Some airbelts will deploy in either front or side collisions.
- Rear Impact Curtain - This curtain helps protect the last row occupants during a rearward impact.
- Knee Air Bags/Knee Bolsters –This deploys from the lower instrument panel/dashboard.
- Anti-slide/Anti-submarine/Seat Cushion Air Bag - This inflates in the seat cushion to help maintain the occupant's seating position.

**08 (Deployed-Combination)** is used if case material indicate that multiple air bags *of different types* deployed for this seat position.

**09 (Deployment-Unknown Location)** is used if an air bag did deploy for this seat position, but the origin of the air bag is not known.

**20 (Not Deployed)** is used if the available information indicates that no air bags deployed for this seat position.

This includes when the case material indicate there was no air bag available for this person. Crash Report terms that might be encountered include the following: Not Applicable, No Air Bag, Not Equipped, Not Present, None, Not Available/Unavailable, Not Installed, or Prior Deployment - Not Replaced.

**98 (Not Reported)** *Check to see if 20 (Not Deployed) or [99 \(Reported as Deployment Unknown\)](#) is more appropriate for the situation.*

If a State's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported.**"

Code **98 (Not Reported)** in these situations:

1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).
3. When an air bag deployment is reported somewhere in the vehicle and the narrative or other case material does not specify/clarify a seating position or occupant associated with the deployment, then code 98 (Not Reported) is applied.

**99 (Reported as Deployment Unknown)** is used if the investigating officer indicates that deployment of an air bag was unknown for this person or for the vehicle and there is no further information in the case material.

Consistency Checks [\(See Section 400\)](#):

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>THEN</b>                                          |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| 2S0P            | HELMET USE Subfield 1 Helmet Use equals 05, 16, 17, 19, or 99,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | AIR BAG DEPLOYED should equal 20, 98.                |
| 2U0P            | <b><i>vPIC BODY CLASS equals 004 (Low Speed Vehicle (LSV)/Neighborhood Electric Vehicle (NEV)), 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport/Adventure/Supermoto/On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 088 (Off-road Vehicle - Go Kart), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 097 (Off-road Vehicle - Snowmobile), 098 (Motorcycle - Street), 100 (Motorcycle - Enclosed Three Wheeled / Enclosed Autocycle), 103 (Motorcycle - Unenclosed Three Wheeled / Open Autocycle), 104 (Motorcycle - Moped), 105 (Off-road Vehicle - Recreational Off-Road Vehicle (ROV)), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 124 (Off-road Vehicle - Golf Cart), 125 (Motorcycle - Unknown Body Type), 126 (Off-road Vehicle - Farm Equipment), 127 (Off-road Vehicle - Construction Equipment), 996 (Motorized Bicycle), or 997 (Other), or FINAL STAGE BODY CLASS equals 004 (Low Speed Vehicle (LSV)/Neighborhood Electric Vehicle (NEV)),</i></b> | AIR BAG DEPLOYED should equal 20 <b>or</b> 98.       |
| 3R0P            | AIR BAG DEPLOYED does not equal 20, 98, or 99,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | SEATING POSITION should not equal 12, 22, 32, 41-56. |
| P260            | SEATING POSITION equals 18, 19, or 99,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | AIR BAG DEPLOYED should equal 20, 98, 99.            |
| <b>P270</b>     | <b><i>SEATING POSITION equals 21-23, 28, 29, 31-33, 38, 39, 41-43, 48, 49, 50, 54-56, 98, or 99,</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b><i>AIR BAG DEPLOYED must not equal 01.</i></b>    |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>THEN</b>                                             |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| <b>P280</b>     | <b>AIR BAG DEPLOYED equals 01,</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>SEATING POSITION must equal 11-19.</b>               |
| P290            | AIR BAG DEPLOYED equals 01-03, 07-09, and <b>vPIC BODY CLASS equals 001 (Convertible/Cabriolet), 002 (Minivan), 003 (Coupe), 005 (Hatchback/Liftback/Notchback), 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 008 (Crossover Utility Vehicle (CUV)), 009 (Van), 010 (Roadster), 011 (Truck), 013 (Sedan/Saloon), 015 (Wagon), 060 (Pickup), 117 (Limousine), 119 (Sport Utility Truck (SUT)), or FINAL STAGE BODY CLASS equals 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 008 (Crossover Utility Vehicle (CUV)), 009 (Van), 011 (Truck), 015 (Wagon), 060 (Pickup), 117 (Limousine), or 119 (Sport Utility Truck (SUT)), and VEHICLE MODEL YEAR equals 1998 or newer,</b> | SEATING POSITION should equal 11, 13, 21, 23, 31 or 33. |
| V310            | SEATING POSITION equals 54 and VEHICLE TRAILING equals 1-4,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | AIR BAG DEPLOYED must equal 20.                         |
| V320            | <b>vPIC BODY CLASS equals 011 (Truck), 016 (Bus), 066 (Truck-Tractor), 068 (Streetcar / Trolley), 73 (Bus-School Bus), 95 (Cargo Van), 108 (Motorhome), or 111 (Step Van / Walk-in Van), or FINAL STAGE BODY CLASS equals 011 (Truck), 016 (Bus), 066 (Truck-Tractor), 068 (Streetcar / Trolley), 73 (Bus-School Bus), 95 (Cargo Van), 108 (Motorhome), or 111 (Step Van / Walk-in Van), and POWER UNIT GVWR_from and GVWR_to equals 13 to 18, and SEATING POSITION does not equal 11, 13, or 98,</b>                                                                                                                                                                                                           | AIR BAG DEPLOYED should equal 20 <b>or</b> 98.          |

## P13 - Ejection

**FORMAT:** 1 numeric

**SAS NAME:** Person.EJECTION

**ELEMENT VALUES:**

| Codes | Attributes                                     |
|-------|------------------------------------------------|
| 0     | <a href="#">Not Ejected</a>                    |
| 1     | <a href="#">Totally Ejected</a>                |
| 2     | <a href="#">Partially Ejected</a>              |
| 3     | <a href="#">Ejected - Unknown Degree</a>       |
| 7     | <a href="#">Not Reported</a>                   |
| 8     | <a href="#">Not Applicable</a>                 |
| 9     | <a href="#">Reported as Unknown if Ejected</a> |

**Definition:** This element describes the ejection status and degree of ejection for this person, excluding motorcycle occupants.

**Remarks:** Ejection refers to situations where forces from a crash cause occupants to be totally or partially thrown from the vehicle (including the bed of pickup trucks) during the course of the crash. This includes occupants of jeeps, go carts, snowmobiles, three- or four-wheel ATVs.

**Note:** This variable excludes occupants of motorcycles.

Partial ejection refers to those instances where some part but not all of an occupant's body is, at some time during the crash sequence, outside the occupant compartment.

**0 (Not Ejected)** is used if the case material specifically so state for a given occupant.

If the case material does not show the ejection status of uninjured drivers or passengers, and there is no other information about ejection (e.g., in the narrative/diagram), then use [7 \(Not Reported\)](#).

**1 (Totally Ejected)** is used when the occupant's body is entirely outside the vehicle but may be in contact with the vehicle. This includes occupants who are not initially in the seating compartment of the vehicle (e.g., pickup beds, boot of a convertible, and people riding on open tailgates).

**2 (Partially Ejected)** refers to those instances where some part but not all of an occupant's body is, at some time during the crash sequence, outside the occupant compartment. This does not apply to occupants who are not initially in the seating compartment of the vehicle (e.g., pickup beds, boot of a convertible, and people riding on open tailgates), since any ejection for them is coded as [1 \(Totally Ejected\)](#).

**3 (Ejected - Unknown Degree)** is used when the case material indicate that an occupant is ejected but fails to discriminate between total and partial ejection.

**7 (Not Reported)** *Check to see if [0 \(Not Ejected\)](#) or [9 \(Reported as Unknown if Ejected\)](#) are more appropriate for the situation.*

If a State's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported.**"

Code **7 (Not Reported)** in these two situations:

1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

**8 (Not Applicable)** is used for people who are riding on or appended to by any means (hand grasp, tow rope, etc.) the exterior of a vehicle or for motorcycle occupants. Exterior of the vehicle includes running boards, roof, fenders, and bumpers, but not the bed of pickup trucks, open tailgate, or boot of a convertible.

**9 (Reported as Unknown if Ejected)** is used when the case material specifically indicate unknown.

Consistency Checks [\(See Section 400\)](#):

| Error ID | IF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | THEN                          |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| 3S0P     | SEATING POSITION equals 55, 56,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | EJECTION must equal 8.        |
| 4S0P     | <i>vPIC BODY CLASS equals 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport/Adventure/Supermoto/On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 104 (Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle),</i> | EJECTION must equal 8.        |
| P01F     | RESTRAINT SYSTEM USE Subfield-1 Type of Restraint System in Use equals 01-06, 08, <i>or</i> 10-12,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | EJECTION should equal 0 or 7. |

| <b>Error ID</b> | <b>IF</b>          | <b>THEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P050            | EJECTION equals 1, | RESTRAINT SYSTEM USE Subfield-1 Type of Restraint System in Use should not equal 01-06, 08, 10-12.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| P094            | EJECTION equals 8, | SEATING POSITION must equal 55 or 56, or <b>vPIC BODY CLASS must equal 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport/Adventure/Supermoto/On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 104 (Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle).</b> |

**Consistency Checks (FARS Only) [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                      | <b>THEN</b>                      |
|-----------------|--------------------------------|----------------------------------|
| 6S0P            | EJECTION equals 1,             | EXTRICATION must not equal 1, 9. |
| BA0P            | EJECTION equals 0, 7, 8, or 9, | EJECTION PATH must equal 0.      |
| BB0P            | EJECTION equals 1-3,           | EJECTION PATH must equal 1-9.    |



## P14 - Ejection Path - FARS Only

**FORMAT:** 1 numeric

**SAS Name:** Person.EJ\_PATH

### ELEMENT VALUES:

| Codes | Attributes                                           |
|-------|------------------------------------------------------|
| 0     | <a href="#">Ejection Path Not Applicable</a>         |
| 1     | Through Side Door Opening                            |
| 2     | Through Side Window                                  |
| 3     | Through Windshield                                   |
| 4     | Through Back Window                                  |
| 5     | Through Back Door/Tailgate Opening                   |
| 6     | Through Roof Opening (sunroof, convertible top down) |
| 7     | Through Roof (convertible top up)                    |
| 8     | Other Path (e.g., back of pickup truck)              |
| 9     | <a href="#">Ejection Path Unknown</a>                |

**Definition:** This element identifies the path by which this person was [ejected](#) from the vehicle.

### Remarks:

**0 (Ejection Path Not Applicable)** is used when the element [EJECTION](#) is coded **0 (Not Ejected)**, **7 (Not Reported)**, **8 (Not Applicable)**, or **9 (Unknown if Ejected)**. This attribute is an autofill in *RBIS*.

**9 (Ejection Path Unknown)** is used for **ejected** occupants when:

1. No field or coding block exists on the State's crash report to provide information to code ejection path AND no other information is available to code the element (e.g., narrative, diagram, case material); or
2. a field or coding block exists on the State's crash report that would provide the information needed to code ejection path, but it has been left blank, AND no other information is available to code the element (e.g., narrative, diagram, case material); or
3. the police indicate ejection path is unknown.

**Use the following table as a guideline:**

| Path                      | Guideline                                        |
|---------------------------|--------------------------------------------------|
| Through side door opening | all side doors                                   |
| Through side window       | all side windows, bus side windows               |
| Through windshield        | front windshield only                            |
| Through back window       | standard rear window, back window of bronco, van |

| <b>Path</b>                        | <b>Guideline</b>                                                     |
|------------------------------------|----------------------------------------------------------------------|
| Through back door/tailgate opening | station wagon tailgate, back door of truck, back door of bronco, van |
| Through roof opening               | (sunroof, convertible top down) t-top, targa top                     |
| Through roof                       | (convertible top up)                                                 |
| Other path                         | (back of pickup truck) torn-off roof, car cut in half                |
| Ejection Path Unknown              | driver's side, unspecified; passenger's side unspecified             |

**Consistency Checks [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                      | <b>THEN</b>                   |
|-----------------|--------------------------------|-------------------------------|
| BA0P            | EJECTION equals 0, 7, 8, or 9, | EJECTION PATH must equal 0.   |
| BB0P            | EJECTION equals 1-3,           | EJECTION PATH must equal 1-9. |

## P15 - Extrication - FARS Only

**FORMAT:** 1 numeric

**SAS NAME:** Person.EXTRICAT

### ELEMENT VALUES:

| Codes | Attributes                                       |
|-------|--------------------------------------------------|
| 0     | <a href="#">Not Extricated or Not Applicable</a> |
| 1     | <a href="#">Extricated</a>                       |
| 9     | <a href="#">Unknown</a>                          |

**Definition:** This element identifies if *equipment was* used to remove this person from the vehicle.

**Remarks:** Extrication refers to the use of *equipment to* remove people from the vehicles, i.e., more than just lifting or carrying person out of wreckage.

**0 (Not Extricated or Not Applicable)** is used if there is no reason to believe an occupant was extricated. Do not assume **0 (Not Extricated or Not Applicable)** when the officer references “pinned,” “wedged,” or “trapped.” See [9 \(Unknown\)](#). This field is not applicable to motorcycle and ATV/ATC riders (*NCSA BODY TYPES 80-84, 88, 89, 90*).

**1 (Extricated)** is used when the police officer uses the word “extricated” to indicate occupant removal. Use of the term “extricated” is sufficient information to use **1 (Extricated)** even if no mention of equipment is made. The only exception to this is if the analyst knows the officer used the term “extrication” not as intended for the purpose of this element. If the officer uses the term “pinned” or “wedged” or something similar, then the officer must indicate that equipment was used to remove the occupant in order to code attribute **1 (Extricated)**.

**9 (Unknown)** is to be used when the officer states that the occupant is “pinned” or “wedged,” etc., and suggests that the occupant may have been removed with force but does not make it clear whether equipment was used or not.

Consistency Checks [\(See Section 400\)](#):

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>THEN</b>                      |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| 5S0P            | <b><i>vPIC BODY CLASS equals 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport/Adventure/Supermoto/On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 104 (Motorcycle - Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle),</i></b> | EXTRICATION must equal 0.        |
| 6S0P            | EJECTION equals 1,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | EXTRICATION must not equal 1, 9. |

## P16/NM16 - Police Reported Alcohol Involvement

**FORMAT:** 1 numeric

**SAS NAME:** Person.DRINKING

**ELEMENT VALUES:**

| Codes | Attributes                                |
|-------|-------------------------------------------|
| 0     | <a href="#">No (Alcohol Not Involved)</a> |
| 1     | <a href="#">Yes (Alcohol Involved)</a>    |
| 8     | <a href="#">Not Reported</a>              |
| 9     | <a href="#">Reported as Unknown</a>       |

**Definition:** This data element reflects only **the judgment of law enforcement** as to whether alcohol was involved or not for this person.

**Remarks:** The phrase “alcohol involved” means that alcohol is present in the person or presumed to be present **by the police**. Consequently, this data element may not agree with the alcohol test results for this person. ***This data element excludes interpretation of lab test results by the analyst/coder unless those results are provided by law enforcement either directly or included on the crash report form.*** Involvement is not an indication that alcohol was in any way a cause of the crash.

If the case material indicate that open or unopened alcoholic beverages were found in the vehicle, then this information does not by itself constitute involvement unless the police indicate that this was the basis for a determination of involvement. If the case material indicate that a preliminary breath test (PBT) was given and the officer’s judgment contradicts the preliminary test, the officer’s judgment will be the determining factor.

**0 (No [Alcohol Not Involved])** applies if **the judgment of law enforcement** is that alcohol is not present in this person.

In some circumstances, it is possible for the police to give sufficient information in the report fields (such as contributing circumstances, driver/pedestrian condition, alcohol presence or use, alcohol test, etc.) or narrative to indicate that they believe alcohol is not involved without specifically mentioning “no” alcohol. In such cases, use **0 (No [Alcohol Not Involved])**. However, if there is any question that the officer’s position on alcohol involvement is “no alcohol” because of lack of information, then use [8 \(Not Reported\)](#).

**1 (Yes [Alcohol Involved])** applies only if **the judgment of the law enforcement** is that alcohol was present in this person. For example, the police indicate alcohol involvement via:

- a specific data element on the police report form such as Driver Condition,
- the police charge the driver with an alcohol-related offense,
- the police mention in the narrative section of the report that the person had been drinking,
- the police report has a positive **blood alcohol concentration (BAC)** test result (BAC>.00).

Some police crash reports have a block labeled “Alcohol/Drugs.” If use is indicated, and it cannot be determined which was used (narrative, arrest/charged section, etc.), **use code 8 (Not Reported)**. If the police report indicates that a driver was charged with DWI/DUI (driving while intoxicated, driving while impaired or driving under the influence), and no clarification is offered to indicate if the DWI/DUI was alcohol related or other drug related (e.g., a specific data element; mentioned in the narrative section; **blood alcohol concentration** results), then **use code 8 (Not Reported)**.

**8 (Not Reported)** applies when law enforcement makes no mention of alcohol involvement in either narrative or data fields. For example, there is a specific location on the police report for assessment of alcohol, but the investigating officer fails to make either a positive or negative assessment by leaving the field blank. Also use **8 (Not Reported)** if no block exists on the police crash report for reporting alcohol presence and no other information is available. **Check to see if 0 (No [Alcohol Not Involved]) or 9 (Reported as Unknown) are more appropriate for the situation.**

*Most States' practice is that passengers are not routinely assessed for the presence of alcohol or drugs. Consequently, for passengers when there is no other information regarding alcohol or drugs, use 8 (Not Reported).*

**Ordering a test is not the same as reporting involvement.** There are instances when the police do not indicate in the police crash report whether alcohol was involved or not, but they do mention that a test was given or ordered. For example, the police may only say that an evidential test was ordered for a driver without indicating that they suspected alcohol or providing a result. The use of passive alcohol sensors (PAS) may also be mentioned as used by the police, without mention of the result. Use **8 (Not Reported)** for these instances.

**9 (Reported as Unknown)** applies when law enforcement indicates in either narrative or data fields that alcohol involvement is “unknown” for this person. In general, crash reports have blocks to indicate either positive or negative alcohol involvement. However, if a crash report has a provision for the investigating officer to respond, “unknown involvement,” then enter this attribute.

#### **FARS SPECIAL INSTRUCTION:**

##### **Important Guidelines:**

- Do not change the coding of this element because a positive alcohol test is obtained from the coroner, medical examiner, or State toxicology lab. A positive or negative BAC test submitted from the toxicology lab or coroner directly to the FARS analyst is not evidence of the officer’s judgment.
- The police crash report, including any supplemental reports or direct contact with the police are the only valid sources.

When Police-Reported Alcohol Involvement is **8 (Not Reported)** or **9 (Reported as Unknown)**, **METHOD OF ALCOHOL BY POLICE DETERMINATION** attributes “1-8” are allowed. However, this should only happen when the method is stated by the police, but the involvement is not mentioned at all or stated as unknown.

**Consistency Checks [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                                                                                    | <b>THEN</b>                                                                                                                            |
|-----------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| 4X4F            | any CONDITION (IMPAIRMENT) AT TIME OF CRASH (D23) equals 09,                                 | POLICE REPORTED ALCOHOL INVOLVEMENT (P16), or POLICE REPORTED DRUG INVOLVEMENT (P19) should equal 1 for this person.                   |
| D090            | VIOLATIONS CHARGED equals 11-19, and PERSON TYPE equals 01, 03,                              | POLICE REPORTED ALCOHOL INVOLVEMENT should equal 1, or POLICE REPORTED DRUG INVOLVEMENT should equal 1.                                |
| P072            | PERSON TYPE equals 02, 03, and INJURY SEVERITY equals 0, and ALCOHOL TEST RESULT equals 996, | POLICE REPORTED ALCOHOL INVOLVEMENT should equal 0, 8.                                                                                 |
| <b>P076</b>     | <b>ALCOHOL TEST Subfield 2 - Test Type equals 02, 10, or 11,</b>                             | <b>POLICE REPORTED ALCOHOL INVOLVEMENT should not equal 8 or 9, and METHOD OF ALCOHOL DETERMINATION BY POLICE should equal 1 or 2.</b> |
| P300            | POLICE REPORTED ALCOHOL INVOLVEMENT equals 1, and INJURY SEVERITY equals 4,                  | ALCOHOL TEST STATUS should not equal 0.                                                                                                |

**Consistency Checks (FARS Only) [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                                                | <b>THEN</b>                                               |
|-----------------|----------------------------------------------------------|-----------------------------------------------------------|
| P110            | METHOD OF ALCOHOL DETERMINATION BY POLICE equals 1-5, 8, | POLICE REPORTED ALCOHOL INVOLVEMENT should equal 0, 1.    |
| P200            | POLICE REPORTED ALCOHOL INVOLVEMENT equals 8, 9,         | METHOD OF ALCOHOL DETERMINATION BY POLICE should equal 9. |

## P17/NM17 - Method of Alcohol Determination by Police - FARS Only

**FORMAT:** 1 numeric

**SAS NAME:** Person.ALC\_DET

**ELEMENT VALUES:**

| Codes | Attributes                                             |
|-------|--------------------------------------------------------|
| 1     | <a href="#">Evidential Test (Breath, Blood, Urine)</a> |
| 2     | <a href="#">Preliminary Breath Test (PBT)</a>          |
| 3     | <a href="#">Standard Field Sobriety Test</a>           |
| 4     | <a href="#">Passive Alcohol Sensor (PAS)</a>           |
| 5     | <a href="#">Observed</a>                               |
| 8     | <a href="#">Other (e.g., Saliva test)</a>              |
| 9     | <a href="#">Not Reported</a>                           |

**Definition:** This element describes **the method by which the police made the determination** as to whether alcohol was involved or not for this person.

**Remarks:** This variable is coded for each person involved in the crash. The police crash report and supplements are the source of information.

The purpose of this variable is to record the method by which the police made the determination in [POLICE-REPORTED ALCOHOL INVOLVEMENT](#) as to whether alcohol was involved or not.

It is used primarily when the [POLICE-REPORTED ALCOHOL INVOLVEMENT](#) variable is coded as [0 \(No \[Alcohol Not Involved\]\)](#) or [1 \(Yes \[Alcohol Involved\]\)](#).

Whenever [POLICE-REPORTED ALCOHOL INVOLVEMENT](#) is [0 \(No \[Alcohol Not Involved\]\)](#), try to find out how the police knew this. When Police-Reported Alcohol Involvement is [1 \(Yes \[Alcohol Involved\]\)](#), try to determine how the police knew this.

If [POLICE-REPORTED ALCOHOL INVOLVEMENT](#) is [8 \(Not Reported\)](#) or [9 \(Reported as Unknown\)](#), then METHOD OF ALCOHOL DETERMINATION BY POLICE is [9 \(Not Reported\)](#). If more than one method is used by the police to determine alcohol involvement, choose the method the police refer to when they record their assessment. If more than one method is used and they do not state which method was the basis for their alcohol determination, code the highest-ranking method used from the hierarchy (the highest ranking is “1”; the lowest is “5”).

**1 (Evidential Test [Breath, Blood, Urine])** is used if [POLICE-REPORTED ALCOHOL INVOLVEMENT](#) is [0 \(No \[Alcohol Not Involved\]\)](#) or [1 \(Yes \[Alcohol Involved\]\)](#) and the police indicate that they ordered an evidential test and their determination of alcohol involvement was based on the results of that test.

An evidential test can be a breath test on a State-approved breath test device, a blood test, or a urine test. No other tests are considered evidential.



***Ordering a test is not the same as knowing the results of that test.***

In order to code that the police determined their opinion based on an evidential test, there must be information that the officer had received the test results. If they haven't received test results (e.g., results are pending), then their method of determination of alcohol or drug presence was made using some method other than an evidential test.

**2 (Preliminary Breath Test [PBT])** is used if [POLICE-REPORTED ALCOHOL INVOLVEMENT](#) is **0 (No [Alcohol Not Involved])** or **1 (Yes [Alcohol Involved])** and the police indicate that alcohol involvement was based upon the results of a preliminary breath test, or PBT. Preliminary breath testing devices are not yet considered evidential tests, but merely as tools for the police to help them determine whether alcohol is present or not. Many PBTs only indicate whether alcohol is present in the breath bypass (green) or fail (red) lights. Other PBTs indicate the approximate BAC in numbers. Some PBTs are of evidential quality in some States. But if the device was used only as a preliminary test and not the evidential test, then this value should be coded.

The key to coding this is the definite indication **by the police** that a PBT **was used** and was the basis (or the clinching evidence) that a driver had been drinking or not.

**3 (Standard Field Sobriety Test)** is used if [POLICE-REPORTED ALCOHOL INVOLVEMENT](#) is **0 (No [Alcohol Not Involved])** or **1 (Yes [Alcohol Involved])** and the police indicate that the basis for that alcohol assessment was the behavior by the driver during a Standard Field Sobriety Test (SFST).

Examples of SFSTs include the horizontal gaze nystagmus (HGN) test, walking-in-a-straight-line test, one-leg-stand test, etc. **Do not confuse 3 (Standard Field Sobriety Test) with 5 (Observed).**

**4 (Passive Alcohol Sensor [PAS])** is used if [POLICE-REPORTED ALCOHOL INVOLVEMENT](#) is **0 (No [Alcohol Not Involved])** or **1 (Yes [Alcohol Involved])** and the police indicate that alcohol involvement was based upon the results of a passive alcohol sensor, or "sniffer."

The PAS devices available and in use by police are devices that look like flashlights and when held within 6 inches of the driver's mouth will detect alcohol in the breath while the driver is talking. The PAS is not considered an evidential test nor a PBT. It is not really a test, but a detector or an extension of the police officer's senses. The PAS devices are usually PASS/FAIL indicators with a red-light indicating alcohol on the breath.

The key to coding this attribute is the indication by the police that a PAS was used and was the basis for coding **0 (No [Alcohol Not Involved])** or **1 (Yes [Alcohol Involved])** for [POLICE-REPORTED ALCOHOL INVOLVEMENT](#).

**5 (Observed)** is used if [POLICE-REPORTED ALCOHOL INVOLVEMENT](#) is **0 (No [Alcohol Not Involved])** or **1 (Yes [Alcohol Involved])** and the police indicate that the basis for their alcohol assessment was some observation of the driver. Do not confuse **5 (Observed)** with **3 (Standard Field Sobriety Test)**.

### Examples of observations would be:

- Smelling alcohol on the driver's breath.
- Staggering, slurring of speech.
- The driver admitting he had been drinking.
- Other observations described by the police that would **not** be considered field sobriety tests.

Be careful not to simply assume that this is the appropriate code when some other method may have been used (e.g., breath test, PBT, PAS).

**8 (Other [e.g., Saliva test])** is used if [POLICE-REPORTED ALCOHOL INVOLVEMENT](#) is [0 \(No \[Alcohol Not Involved\]\)](#) or [1 \(Yes \[Alcohol Involved\]\)](#) and the police indicate that the basis for alcohol determination was something other than the codes “1, 2, 3, 4, and 5” described above.

### Examples of Other methods include:

1. Results of a saliva test.
2. Results of other tissue tests.

The key to coding this attribute is the description by the police of some other method of alcohol determination that does not fall into codes “1-5.”

If a police crash report data element is coded with the attribute “Other” but the officer does not specify what this refers to:

1. Code **8 (Other [e.g., Saliva test])** if the police crash report attribute choices can be matched to or include all the attributes in FARS/CRSS.
2. Code **9 (Not Reported)** if the police crash report choices cannot be matched to or include all the attributes in FARS/CRSS.

**9 (Not Reported)** is coded if [POLICE-REPORTED ALCOHOL INVOLVEMENT](#) is [8 \(Not Reported\)](#) or [9 \(Reported as Unknown\)](#). It is also coded if [POLICE-REPORTED ALCOHOL INVOLVEMENT](#) is [0 \(No \[Alcohol Not Involved\]\)](#) or [1 \(Yes \[Alcohol Involved\]\)](#) and there is no indication in the police report or any documents as to how the police made the alcohol assessment.

### Witness Statements:

Witness Statements may or may not be used by the police to make a determination of alcohol involvement. See clarification on the use of information provided by witnesses in section [103. Data Sources](#). If the police did use witness statements alone to make a determination of alcohol involvement, use [8 \(Other\)](#).

If the police mention, but did not use witness statements and there is no other indication of how a determination was made, use [9 \(Not Reported\)](#).

There are instances when the police do not indicate in the police crash report whether alcohol was involved or not, but they do mention that a test was given or ordered.

**FOR EXAMPLE:** The police may only say that an evidential test was ordered for a driver without indicating that they suspected alcohol or what the result was. The use of passive alcohol sensors (PAS) may also be mentioned as used by the police, without mention of the result.

**Codes 1-8** may be used for METHOD OF ALCOHOL DETERMINATION BY POLICE when [POLICE-REPORTED ALCOHOL INVOLVEMENT](#) is coded as [8 \(Not Reported\)](#) or [9 \(Reported as Unknown\)](#), if this fits the case.

This should only happen when the method is stated by the police, but the involvement is not mentioned at all or stated as unknown.

**Consistency Checks** [\(See Section 400\)](#):

| <b>Error ID</b> | <b>IF</b>                                                               | <b>THEN</b>                                                                                                                                   |
|-----------------|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>P076</b>     | <b><i>ALCOHOL TEST Subfield 2 - Test Type equals 02, 10, or 11,</i></b> | <b><i>POLICE REPORTED ALCOHOL INVOLVEMENT should not equal 8 or 9, and METHOD OF ALCOHOL DETERMINATION BY POLICE should equal 1 or 2.</i></b> |
| P110            | METHOD OF ALCOHOL DETERMINATION BY POLICE equals 1-5, 8,                | POLICE REPORTED ALCOHOL INVOLVEMENT should equal 0, 1.                                                                                        |
| P200            | POLICE REPORTED ALCOHOL INVOLVEMENT equals 8, 9,                        | METHOD OF ALCOHOL DETERMINATION BY POLICE should equal 9.                                                                                     |
| P400            | METHOD OF ALCOHOL DETERMINATION BY POLICE equals 1 or 2,                | ALCOHOL TEST Subfield 1-Test Status must be 2.                                                                                                |
| U681            | UNLIKELY: METHOD OF ALCOHOL DETERMINATION BY POLICE equals 8.           | --                                                                                                                                            |

## P18/NM18 - Alcohol Test

**FORMAT:** 3 sets: 1 set, 1 numeric, 1 set, 2 numeric, 1 set, 3 numeric

**SAS NAME:** Person.ALC\_STATUS, Person.ATST\_TYP, Person.ALC\_RES

**ELEMENT VALUES:**

### Subfield 1 - Test Status

| Codes | Attributes                                    |
|-------|-----------------------------------------------|
| 0     | <a href="#">Test Not Given</a>                |
| 2     | <a href="#">Test Given</a>                    |
| 8     | <a href="#">Not Reported</a>                  |
| 9     | <a href="#">Reported as Unknown if Tested</a> |

### Subfield 2 - Test Type

| Codes | Attributes                                    |
|-------|-----------------------------------------------|
| 00    | Test Not Given                                |
| 01    | <a href="#">Blood</a>                         |
| 02    | <a href="#">Breath Test (AC)</a>              |
| 10    | <a href="#">Preliminary Breath Test (PBT)</a> |
| 11    | <a href="#">Breath Test, Unknown Type</a>     |
| 03    | <a href="#">Urine</a>                         |
| 04*   | Vitreous                                      |
| 05*   | Blood Plasma/Serum                            |
| 06*   | Blood Clot                                    |
| 07*   | Liver                                         |
| 08    | <a href="#">Other Test Type</a>               |
| 98    | <a href="#">Unknown Test Type</a>             |
| 95    | <a href="#">Not Reported</a>                  |
| 99    | <a href="#">Reported as Unknown if Tested</a> |

**\*FARS ONLY ATTRIBUTES**

### Subfield 3 - Test Result

| Codes   | Attributes                                            |
|---------|-------------------------------------------------------|
| 000-939 | <a href="#">Actual Value</a>                          |
| 940     | .94 or Greater                                        |
| 996     | Test Not Given                                        |
| 997     | <a href="#">AC Test Performed, Results Unknown</a>    |
| 998     | <a href="#">Positive Reading with No Actual Value</a> |
| 995     | <a href="#">Not Reported</a>                          |
| 999     | <a href="#">Reported as Unknown if Tested</a>         |

**Definition for Alcohol Test Status:** This element identifies if an alcohol (ethanol) test was given to this person.

**Definition for Alcohol Test Type:** This element identifies the type of the alcohol (ethanol) test that was used for this person.

**Definition for Alcohol Test Result:** This element identifies the alcohol (ethanol) test result for this person.

**Remarks:** When completing this element, you must have the data to fill **ALL** three subfields. Otherwise, leave all three subfields **blank** until all the data has been acquired to complete all three subfields. An ante mortem **blood alcohol concentration** result (live person) is always preferred over a postmortem **blood alcohol concentration** result (deceased person).

For alcohol tests that were initiated but not completed because of a contaminated or insufficient sample, code:

- Test Status as [2 \(Test Given\)](#),
- the applicable Test Type, and
- code Test Results as [997 \(AC Test Performed, Results Unknown\)](#).

In a circumstance where the crash report provides results from a lower order test (e.g., breath or urine) and blood was also drawn to be tested, but blood test results will not be received, it is preferred that we record the known result from the breath or urine test rather than **997 (AC Test Performed, Results Unknown)**.

#### **Guidance on crash reported values indicating Test Refused:**

Code all three Subfields as **8/95/995 (Not Reported)**, unless there is clear indication that a test was subsequently performed ([2 \(Test Given\)](#)) or not performed ([0 \(Test Not Given\)](#)). Also, select RELATED FACTORS-DRIVER LEVEL [060 \(Alcohol and/or Drug Test Refused\)](#), RELATED FACTORS-PERSON (MV OCCUPANT) LEVEL [010 \(Alcohol and/or Drug Test Refused\)](#), or RELATED FACTORS-PERSON (NOT A MV OCCUPANT) LEVEL [010 \(Alcohol and/or Drug Test Refused\)](#) anytime it is indicated on the crash report that testing was refused, regardless of subsequent testing.

### **Subfield 1 - Test Status**

Indicates whether a test was performed on this person to detect the presence of alcohol (ethanol) or not.

**0 (Test Not Given)** is used when the case material indicate an alcohol test was not given.

**NOTE:** Most States' practice is that "live" non-drivers are not routinely tested for alcohol. Consequently, for live non-drivers **RBIS** will auto-fill Test Status, Test Type, and Test Result as **0 (Test Not Given)**. If you happen to obtain an alcohol test result for a "live" non-driver, enter **Test Status** as **2 (Test Given)** and the appropriate test type and results.

**2 (Test Given)** is used when the case material indicate an alcohol test was given.

**8 (Not Reported)** *Check to see if 0 (Test Not Given) or 9 (Reported as Unknown if Tested) are more appropriate for the situation.*

If a State's crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered "**Not Reported.**"

Code **8 (Not Reported)** in these two situations:

1. No field or coding block exists on the State's crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State's crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State's crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

**9 (Reported as Unknown if Tested)** is used when the case material specifically indicated "Unknown if Tested."

### **Subfield 2 - Test Type**

#### **Coding Hierarchy:**

*For all living patients, the hierarchy for preferred specimen is breath followed by blood. This is mainly for the timing of the test; breath testing is most likely to happen in close proximity to the time of the motor vehicle crash. For living patients, all other specimen locations (vitreous, liver, etc.) are not used.*

*For all post-mortem testing, specimen location should be verified. This is important to ensure the most accurate test is recorded. Unlike living patients, the accuracy of results is dependent on the site of the specimen. The preferred location for alcohol testing in the deceased is vitreous, followed by blood from femoral vein, then subclavian vein, and finally, heart blood. At the bottom of the hierarchy for sites of specimen testing in the deceased are liver, urine, and "other."*

When more than one alcohol test exists, use the following hierarchy for Test Type:

***Alcohol Testing in Living Patients:***

**1. Breath Test Types**

- [02 \(Breath Test \(AC\)\)](#) or Evidential Breath Test
- [\(Preliminary Breath Test \(PBT\)\)](#) See [Note](#)
- [\(Breath Test, Unknown Type\)](#)

**2. Blood Test Types**

- [01 \(Blood\)](#) or Whole Blood
- 05 (Blood Plasma)\*
- 05 (Blood Serum)\*
- 06 (Blood Clot)\*

***Alcohol Testing in Deceased Patients:***

**1. Other Test Types**

- 04 (Vitreous)\*

**2. Blood Test Types**

*Collection location hierarchy for deceased blood collection. Note: Location of blood collection takes priority over type of blood specimen (whole blood, clot, or plasma).*

1. Femoral Vein
2. Subclavian Vein
3. Heart

- [01 \(Blood\)](#) or Whole Blood
- 06 (Blood Clot)\*
- 05 (Blood Plasma)\*

**3. Other Test Types**

- [03 \(Urine\)](#)
- 07 (Liver)\*
- [08 \(Other Test Type\)](#)

**\*Attributes 04 - 07 do not apply for CRSS coding purposes.**

***Note Regarding Preliminary Breath Tests:***

The rationale is that a PBT will be performed on a live subject prior to any other test type and, therefore, will automatically be closer in time to the crash. If a PBT was performed on-scene while a blood test was performed much later on a live subject, then the PBT is preferred. If the blood test is performed on a sample that is drawn at the scene or close to the crash time, whether the subject is living or dead, then the usual procedure applies to update a PBT result with an evidential blood test result (See [10 \(Preliminary Breath Test\)](#) below). Without information to

determine which type of breath test reported the results, (i.e., only “breath” test is reported) code [11 \(Breath Test, Unknown Type\)](#).

In a circumstance where the crash report identifies results from a test (e.g., urine or other) but blood was also drawn to be tested, but blood test results will not be received, it is preferred that we record the known result from the urine or other test rather than [997 \(AC Test Performed, Results Unknown\)](#).

The same is correct in a circumstance where you have information that casts clear doubt on the validity or reliability of the blood test, and you have results from a test of another type. For example, the blood test was spoiled or contaminated.

**01 (Blood)** is used when the case material indicate this was the type of test used to obtain a ***blood alcohol concentration***.

Note that there are test types for **01 (Blood)**, **05 (Blood Plasma/Serum)**, and **06 (Blood Clot)**. If the coroner, medical examiner, or State lab reports that the test was a “blood” test (whole blood), this most likely does not refer to blood plasma, blood serum, or blood clot, but you should try to verify this. If the test was performed on blood, or if you know the results are already converted to a BAC, then code TEST TYPE as **01 (Blood)**.

**02 (Breath Test [AC])** is used when the case material indicate this was the type of test used to obtain a ***blood alcohol concentration***.

**02 (Breath Test [AC])** is used if you have a result from an **evidential** breath test (a breath test performed on a State-approved breath test device).

Evidential breath test devices may be stationary or portable (handheld).

Usually, results from a [PBT device](#) are not considered evidential. These are always handheld devices. If the device was used only as a preliminary test and not an evidential test, then do not use code **02 (Breath Test [AC])**. Without information to determine which type of breath test reported the results, (i.e., only “breath” test is reported) code [11 \(Breath Test, Unknown Type\)](#).

**03 (Urine)** is used when the case material indicate this was the type of test used to obtain a ***blood alcohol concentration***.

**08 (Other Test Type)** is used when the case material indicate a type of test used to obtain a ***blood alcohol concentration*** was recorded as “Other” or is indicated to be of a type other than the available attributes. This attribute would not apply to behavioral tests (field sobriety) or observations.

If a police crash report data element is coded with the attribute “Other” but the officer does not specify what this refers to:

1. Code **08 (Other Test Type)** if the police crash report attribute choices can be matched to or include all the attributes in FARS/CRSS.
2. Code [95 \(Not Reported\)](#) if the police crash report choices cannot be matched to or include all the attributes in FARS/CRSS.



**10 (Preliminary Breath Test [PBT])** is used when the case material indicate this was the type of test used to obtain a **BAC** and no other test is available. Update **Test Type** and corresponding **Result** if a PBT is followed by an evidential test, other than a PBT. A negative result from a PBT (no alcohol detected) is coded as **000**. Without information to determine which type of breath test reported the results, (i.e., only “breath” test is reported) code **11 (Breath Test, Unknown Type)**.

**11 (Breath Test, Unknown Type)** is used when the case material indicate that a breath test was administered, but it cannot be determined from the case material whether it was a preliminary test or an evidential test.

**98 (Unknown Test Type)** is used when the case material indicate a test was given and the type of test is reported as unknown or pending and the type is unobtainable. ***This attribute should also be used in cases where test results are given, but it cannot be determined which specimen was used in obtaining the results (e.g., blood/urine).***

**95 (Not Reported)** Check to see if [0 \(Test Not Given\)](#) or [99 \(Reported as Unknown if Tested\)](#) are more appropriate for the situation.

If a State’s crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered “**Not Reported.**”

Code **95 (Not Reported)** in these two situations:

1. No field or coding block exists on the State’s crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State’s crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State’s crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

**99 (Reported as Unknown if Tested)** is used when the case material specifically indicated “Unknown if Tested.”

### **Subfield 3 - Test Result**

**000-939 (Actual Value)** All three decimal places should be coded in this field. Blood, urine, and vitreous test results should be represented as **g/dL** (North American standard). If three decimal places are not available, code the first two digits and zero fill the remaining place. For example, a reported ***blood alcohol concentration*** of .09 becomes .090. ***If more than three decimal places are provided, then truncate the results to three decimal places. Do not round test results. For example, a reported BAC of .0279 becomes .027.***

**Example Test Results Are in g/dL**

| <b>g/dL</b> | <b>Translate to g/dL with 3 digits</b> | <b>Record in FARS/CRSS</b> |
|-------------|----------------------------------------|----------------------------|
| .2 g/dL     | .200 g/dL                              | 200                        |
| .17 g/dL    | .170 g/dL                              | 170                        |

**Example Test Results Are in mg/dL (1mg = .001g)**

| mg/dL (1mg = .001g) | Translate to g/dL with 3 digits | Record in FARS/CRSS |
|---------------------|---------------------------------|---------------------|
| 86 mg/dL            | .086 g/dL                       | 086                 |
| 140 mg/dL           | .140 g/dL                       | 140                 |

**Example Test Results Are in Other or No Units**

| Other Units            | Translate to g/dL with 3 digits | Record in FARS/CRSS |
|------------------------|---------------------------------|---------------------|
| .08 is considered g/dL | .080                            | 080                 |
| .1% is considered g/dL | .100                            | 100                 |

**997 (AC Test Performed, Results Unknown)** refers to alcohol content tests that were performed but the results are reported as unknown or pending and are unobtainable (includes a “Contaminated Sample” or “Insufficient Sample”). AC Test Performed, Results Unknown can be used for any Test Type.

**FARS SPECIAL INSTRUCTION:**

As a general coding guideline, **do not** prematurely use Test Result “AC Test Performed, Results Unknown.” It is recommended that you leave the information blank for drivers and non-motorists until the test results are received from the State lab, coroner, or police. You need to be reasonably certain that you will **never** receive the test results to use attribute “**997**” at the time of the initial coding and case entry.

**995 (Not Reported)** Check to see if [0 \(Test Not Given\)](#) or [999 \(Reported as Unknown if Tested\)](#) are more appropriate for the situation.

If a State’s crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered “**Not Reported.**”

Code **995 (Not Reported)** in these two situations:

1. No field or coding block exists on the State’s crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State’s crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State’s crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

**999 (Reported as Unknown if Tested)** is used when the case material specifically indicate “Unknown if Tested.”

**998 (Positive Reading with No Actual Value)** can be used for any Test Type code where the result is indicated to be positive without a numeric value to record. This should only be used

when a final test result is returned as “positive” with no actual result to record. This can occur when a screening test is used, and it is the only test result available. This attribute is also used for a positive **BAC** expressed as a range or as less than some specific value (e.g., less than .020 g/100ml).

Some portable (handheld) breath-test devices are only Preliminary Breath Tests (PBTs) and indicate whether alcohol is present in the breath by positive (green) or negative (red) lights. Other portable breath test devices indicate the approximate **blood alcohol concentration** in numbers. When a PBT result only indicates “positive” for alcohol, with no actual **blood alcohol concentration** value, **998 (Positive Reading with No Actual Value)** should be used. A negative PBT result should be interpreted as **.000**.

Before recording this value make sure that this is the appropriate value based on the [hierarchy](#) outlined under [Subfield 2 Test Type](#).

### State Law Versus Practice:

You may be aware that your State laws require testing of certain classes of crash victims. However, you may also know that the practice in your State is that the law is not observed. In such cases, you are not bound only by what the law says. You may consider State practices in your coding decisions.

**Example 1:** Your State law may require all fatalities to be tested for **blood alcohol concentration**, but you know that this does not happen in your State and you are unable to locate alcohol test information for this person:

- In such a case, you cannot rely on the law for your coding decisions. Therefore, you should use [999 \(Reported as Unknown If Tested\)](#) rather than [997 \(AC Test Performed, Results Unknown\)](#), or **996 (Test Not Given)**. (Test Status equals [9 \(Reported as Unknown if Tested\)](#) and Test Type equals [99 \(Reported as Unknown if Tested\)](#)).

**Example 2:** Most States’ practice is that “live” non-drivers are not routinely tested for alcohol. Consequently, for live non-drivers when there is no mention of a test ordered by the police in the police crash report:

- Code Test Status as **0 (Test Not Given)** and **RBIS** will auto-fill Test Type as **00 (Test Not Given)** and Test Result as **996 (Test Not Given)**. However, if you happen to obtain an alcohol test result later, you may enter the appropriate test type and results.

### Computed Estimates of Blood Alcohol Concentration:

An expert may calculate an estimate of what the **blood alcohol concentration** would have been at the time of the crash (i.e., toxicologist uses the lapse time from crash and the victim's weight to calculate the **blood alcohol concentration**). You may accept these results if the following are **all** true:

- results were reported by someone with the authority in your State to make this determination; and
- the result is considered official in your State; and
- you can support the result with official documentation, or it is reported on the police crash report (may vary from State-to-State).

### Consistency Checks [\(See Section 400\)](#):

| <b>Error ID</b> | <b>IF</b>                                                                                      | <b>THEN</b>                                                                                                                            |
|-----------------|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| 5T7P            | ALCOHOL TEST STATUS equals 0,                                                                  | ALCOHOL TEST TYPE must equal 00, and ALCOHOL TEST RESULT must equal 996.                                                               |
| 5T8P            | ALCOHOL TEST STATUS equals 9,                                                                  | ALCOHOL TEST TYPE must equal 99, and ALCOHOL TEST RESULT must equal 999.                                                               |
| 5T9P            | ALCOHOL TEST STATUS equals 2,                                                                  | ALCOHOL TEST TYPE must equal 01-11, 95, 98, and ALCOHOL TEST RESULT must equal 000-940, 997, 998.                                      |
| 5TCP            | ALCOHOL TEST STATUS equals 8,                                                                  | ALCOHOL TEST TYPE must equal 95, and ALCOHOL TEST RESULT must equal 995.                                                               |
| P071            | PERSON TYPE equals 02, 04-07, 10, <b>11, 12, or 13</b> , and INJURY SEVERITY does not equal 4, | ALCOHOL TEST STATUS should not equal 9, ALCOHOL TEST TYPE should not equal 99, and ALCOHOL TEST RESULT should not equal 999.           |
| P074            | PERSON TYPE equals 02, 04-07, 10, <b>11, 12, or 13</b> , and INJURY SEVERITY does not equal 4, | ALCOHOL TEST STATUS must not equal 8, ALCOHOL TEST TYPE must not equal 95, and ALCOHOL TEST RESULT must not equal 995.                 |
| <b>P076</b>     | <b>ALCOHOL TEST Subfield 2 - Test Type equals 02, 10, or 11,</b>                               | <b>POLICE REPORTED ALCOHOL INVOLVEMENT should not equal 8 or 9, and METHOD OF ALCOHOL DETERMINATION BY POLICE should equal 1 or 2.</b> |
| <b>P077</b>     | <b>INJURY SEVERITY equals 4, and DIED AT SCENE/EN ROUTE equals 7 or 8,</b>                     | <b>ALCOHOL TEST Subfield 2 - Test Type should not equal 02, 10, or 11.</b>                                                             |
| P300            | POLICE REPORTED ALCOHOL INVOLVEMENT equals 1, and INJURY SEVERITY equals 4,                    | ALCOHOL TEST STATUS should not equal 0.                                                                                                |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                         | <b>THEN</b>                                    |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| P400            | METHOD OF ALCOHOL DETERMINATION BY POLICE equals 1 or 2,                                                                                                                          | ALCOHOL TEST Subfield 1-Test Status must be 2. |
| U689            | UNLIKELY: ALCOHOL TEST Subfield 3-Test Result equals 001-009.                                                                                                                     | --                                             |
| U691            | UNLIKELY: ALCOHOL TEST Subfield 3-Test Result equals 010-019.                                                                                                                     | --                                             |
| U692            | UNLIKELY: ALCOHOL TEST Subfield 3-Test Result equals 020-029.                                                                                                                     | --                                             |
| U693            | UNLIKELY: ALCOHOL TEST Subfield 3-Test Result equals 030-039.                                                                                                                     | --                                             |
| U696            | UNLIKELY: ALCOHOL TEST TYPE equals 01, 03, 04, 05, 06, 07, or 08, and ALCOHOL TEST RESULTS is greater than 600, and ALCOHOL TEST RESULTS not equal to 995, 996, 997, 998, or 999. | --                                             |
| U697            | UNLIKELY: ALCOHOL TEST TYPE equals 02, 10, or 11, and ALCOHOL TEST RESULTS is greater than 300, and ALCOHOL TEST RESULTS not equal to 995, 996, 997, 998, or 999.                 | --                                             |

**Consistency Check (FARS Only) ([See Section 400](#)):**

| <b>Error ID</b> | <b>IF</b>                                                                         | <b>THEN</b>                                                                             |
|-----------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| D733            | at least one RELATED FACTORS - DRIVER LEVEL equals 060 and PERSON TYPE equals 01, | ALCOHOL TEST RESULT should equal 995 or at least one DRUG TEST RESULT should equal 095. |

**Consistency Check (CRSS Only) ([See Section 400](#)):**

| <b>Error ID</b> | <b>IF</b>                        | <b>THEN</b>                                                                |
|-----------------|----------------------------------|----------------------------------------------------------------------------|
| <b>P078</b>     | <b>INJURY SEVERITY equals 4,</b> | <b>ALCOHOL TEST Subfield 2 - Test Type should not equal 02, 10, or 11.</b> |

## P19/NM19 - Police Reported Drug Involvement

**FORMAT:** 1 numeric

**SAS NAME:** Person.DRUGS

**ELEMENT VALUES:**

| Codes | Attributes                              |
|-------|-----------------------------------------|
| 0     | <a href="#">No (Drugs Not Involved)</a> |
| 1     | <a href="#">Yes (Drugs Involved)</a>    |
| 8     | <a href="#">Not Reported</a>            |
| 9     | <a href="#">Reported as Unknown</a>     |

**Definition:** This data element reflects only **the judgment of law enforcement** as to whether drugs were involved or not for this person.

**Remarks:** This data element reflects only **the judgment of law enforcement** as to whether drugs were involved or not for this person.

The phrase “drug involvement” means that drugs are present in the person or presumed to be present by the police. ***Consequently, this data element may not agree with the drug test results for this person. This data element excludes interpretation of lab test results by the analyst/coder unless those results are provided by law enforcement either directly or included on the crash report form.*** This includes prescription and over-the-counter medications, as well as illicit substances (marijuana, cocaine, heroin, etc.). It is not an indication that the drug usage was in any way a cause of the crash.

If case material indicate that drugs were found in the vehicle, then this information does not by itself constitute involvement unless the police indicate that this was the basis for a determination of involvement.

Some police crash reports have a block labeled “Alcohol/Drugs.” If use is indicated, and it cannot be determined which was used (narrative, arrest/charged section, etc.), **use code [8 \(Not Reported\)](#)**. If the police report indicates that a driver was charged with DWI/**DUI** (driving while intoxicated, driving while impaired, **or driving under the influence**) and no clarification is offered to indicate if the DWI/**DUI** was alcohol related or **other** drug related (e.g., a specific data element, mentioned in the narrative section, **blood alcohol concentration** results), then **use code [8 \(Not Reported\)](#)**.

**0 (No [Drugs Not Involved])** applies if the judgment of law enforcement is that drugs are not present in this person.

In some circumstances, it is possible for the police to give sufficient information in the report fields (such as contributing circumstances, driver/pedestrian condition, substance use, drug test, etc.) or narrative to indicate that they believe drugs are not involved without specifically mentioning no drugs. In such cases, you may use **0 (No [Drugs Not Involved])**. However, if there is any question that the officer’s position on drug involvement is No because of a lack of information, then it is best to use **[8 \(Not Reported\)](#)**.

**1 (Yes [Drugs Involved])** applies only if the police assessment is that drugs were present in this person. For example, the police indicate drug involvement via:

- a specific data element on the police report form such as Driver Condition,
- the police charge the driver with a drug-related offense,
- the police mention in the narrative section of the report that the person had been under the influence of a drug,
- the police report has a positive test result reported for drugs.

**8 (Not Reported)** applies when law enforcement makes no mention of drug involvement in either narrative or data fields. For example, there is a specific location on the police report for assessment of drugs, but the investigating officer fails to make either a positive or negative assessment by leaving the field blank. Also, use **8 (Not Reported)** if no block exists on the police crash report for reporting drug presence and no other information is available. *Check to see if [0 \(No \[Drugs Not Involved\]\)](#) or [9 \(Reported as Unknown\)](#) are more appropriate for the situation.*

*Most States' practice is that passengers are not routinely assessed for the presence of alcohol or drugs. Consequently, for passengers when there is no other information regarding alcohol or drugs, use 8 (Not Reported).*

**Ordering a test is not the same as reporting involvement.** There are instances when law enforcement does not indicate in the police crash report whether drugs were involved or not, but they do mention that a test was given or ordered. For example, the police may only say that an evidential test was ordered for a driver without indicating that they suspected drugs or providing a result. Use **8 (Not Reported)** for these instances.

**9 (Reported as Unknown)** applies when law enforcement indicates in either narrative or data fields that drug involvement is “unknown” for this person. In general, police reports have blocks to indicate either positive or negative drug involvement. However, if a crash report has a provision for the investigating officer to respond “unknown involvement,” then enter this attribute.

#### **FARS SPECIAL INSTRUCTION:**

##### **Important Guidelines:**

- Do not change the coding of this element because a positive drug test is obtained from the coroner, medical examiner, or State toxicology lab. A positive or negative test result submitted from the toxicology lab or coroner directly to the FARS analyst is **not** evidence of the officer’s judgment.
- The crash report, including any supplemental reports or direct contact with law enforcement, are the only valid sources.

When POLICE REPORTED DRUG INVOLVEMENT is [8 \(Not Reported\)](#) or [9 \(Reported as Unknown\)](#), all [METHOD OF DRUG DETERMINATION](#) attributes are allowed. However, this should only happen when the method is stated by the police, but the involvement is not mentioned at all or stated as unknown.

**Consistency Checks [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                                                       | <b>THEN</b>                                                                                                          |
|-----------------|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| 4X4F            | any CONDITION (IMPAIRMENT) AT TIME OF CRASH (D23) equals 09,    | POLICE REPORTED ALCOHOL INVOLVEMENT (P16), or POLICE REPORTED DRUG INVOLVEMENT (P19) should equal 1 for this person. |
| D090            | VIOLATIONS CHARGED equals 11-19, and PERSON TYPE equals 01, 03, | POLICE REPORTED ALCOHOL INVOLVEMENT should equal 1, or POLICE REPORTED DRUG INVOLVEMENT should equal 1.              |

**Consistency Checks (FARS Only) [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                                                                                       | <b>THEN</b>                                             |
|-----------------|-------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| BQ0P            | METHOD OF DRUG DETERMINATION BY POLICE equals 8,                                                | POLICE REPORTED DRUG INVOLVEMENT must equal 0, 1, 8, 9. |
| BR0P            | METHOD OF DRUG DETERMINATION BY POLICE equals 1-7,                                              | POLICE REPORTED DRUG INVOLVEMENT must equal 0, 1, 8.    |
| P140            | POLICE REPORTED DRUG INVOLVEMENT equals 8, 9,                                                   | METHOD OF DRUG DETERMINATION BY POLICE should equal 8.  |
| P150            | POLICE REPORTED DRUG INVOLVEMENT equals 1, and METHOD OF DRUG DETERMINATION BY POLICE equals 2, | DRUG TEST STATUS should not equal 0.                    |
| P160            | POLICE REPORTED DRUG INVOLVEMENT equals 1, and METHOD OF DRUG DETERMINATION BY POLICE equals 2, | not all DRUG TEST RESULTS should equal 001.             |
| P170            | METHOD OF DRUG DETERMINATION BY POLICE equals 1-7,                                              | POLICE REPORTED DRUG INVOLVEMENT should equal 0, 1.     |



## P20/NM20 - Method of Drug Determination by Police - FARS Only

**FORMAT:** 1 numeric

**SAS NAME:** Person.DRUG\_DET

**ELEMENT VALUES:**

| Codes | Attributes                                                   |
|-------|--------------------------------------------------------------|
| 1     | <a href="#">Evidential Test (Blood, Urine)</a>               |
| 2     | <a href="#">Drug Recognition Expert (or Evaluator) (DRE)</a> |
| 3     | <a href="#">Observed Behavior or SFST</a>                    |
| 7     | <a href="#">Other</a>                                        |
| 8     | <a href="#">Not Reported</a>                                 |

**Definition:** This element identifies **the method by which the police made the determination** as to whether drugs were involved or not for this person.

**Remarks:** This element is coded for each person involved in the crash. The police crash report and supplements are the source of information.

The purpose of this element is to record the method by which the police made the determination as to whether drugs were involved or not.

It is used primarily when the [POLICE REPORTED DRUG INVOLVEMENT](#) element is coded as [0 \(No \[Drugs Not Involved\]\)](#) or [1 \(Yes \[Drugs Involved\]\)](#).

Whenever [POLICE REPORTED DRUG INVOLVEMENT](#) is [0 \(No \[Drugs Not Involved\]\)](#), try to find out how the police knew this. When [POLICE REPORTED DRUG INVOLVEMENT](#) is [1 \(Yes \[Drugs Involved\]\)](#), try to determine how the police knew this.

If [POLICE REPORTED DRUG INVOLVEMENT](#) is [8 \(Not Reported\)](#) or [9 \(Reported as Unknown\)](#), then Method of Drug Determination by Police is [8 \(Not Reported\)](#). If more than one method is used by the police to determine drug involvement, choose the method the police refer to when they record their assessment. If more than one method is used and they do not state which method was the basis for their determination, code the highest-ranking method used from the hierarchy (the highest ranking is “1”; the lowest is “7”).

[1 \(Evidential Test \[Blood, Urine\]\)](#) is used if [POLICE REPORTED DRUG INVOLVEMENT](#) is [0 \(No \[Drugs Not Involved\]\)](#) or [1 \(Yes \[Drugs Involved\]\)](#) and the police indicate that they ordered an evidential test and their determination of drug involvement was based on the results of that test.

**Ordering a test is not the same as knowing the results of that test.** In order to code that the police determined their opinion based on an evidential test, there must be information that the officer had received the test results. If they haven’t received test results (e.g., results are pending), then their method of determination of alcohol or drug presence was made using some method other than an evidential test.

**2 (Drug Recognition Expert (or Evaluator) (DRE))** is used if [POLICE REPORTED DRUG INVOLVEMENT](#) is [0 \(No \[Drugs Not Involved\]\)](#) or [1 \(Yes \[Drugs Involved\]\)](#) and the police indicate that drug involvement was based upon the results of expert opinion of a person trained to recognize impairment in drivers under the influence of drugs other than, or in addition to, alcohol.

The key to coding this attribute is the definite indication **by the police** that a **DRE was used** and was the basis (or the clinching evidence) that a driver had been using drugs or not.

**3 (Observed Behavior or SFST)** is used if [POLICE REPORTED DRUG INVOLVEMENT](#) is [0 \(No \[Drugs Not Involved\]\)](#) or [1 \(Yes \[Drugs Involved\]\)](#) and the police indicate that the basis for that drug assessment was the behavior by the driver during their contact with the person such as an SFST.

**7 (Other)** is used if [POLICE REPORTED DRUG INVOLVEMENT](#) is [0 \(No \[Drugs Not Involved\]\)](#) or [1 \(Yes \[Drugs Involved\]\)](#) and the police indicate that the basis for Drug determination was something other than the codes “1, 2, or 3” described above.

Examples of **7 (Other)** include:

1. Observations of drugs or drug use paraphernalia,
2. Detecting the odor of marijuana, and
3. Admission by the person that they used drugs.

If a police crash report data element is coded with the attribute “Other” but the officer does not specify what this refers to:

1. Code **7 (Other)** if the police crash report attribute choices can be matched to or include all the attributes in FARS/CRSS.
2. Code **8 (Not Reported)** if the police crash report choices cannot be matched to or include all the attributes in FARS/CRSS.

**8 (Not Reported)** is coded if [POLICE REPORTED DRUG INVOLVEMENT](#) is [8 \(Not Reported\)](#) or [9 \(Reported as Unknown\)](#). It is also coded if [POLICE REPORTED DRUG INVOLVEMENT](#) is [0 \(No \[Drugs Not Involved\]\)](#) or [1 \(Yes \[Drugs Involved\]\)](#) and there is no indication in the police report or any documents as to how the police made the drug assessment.

### ***Witness Statements:***

Witness Statements may or may not be used by the police to make a determination of drug involvement. If the police did use witness statements alone to make a determination of drug involvement, use [7 \(Other\)](#). See clarification on the use of information provided by witnesses in section [103. Data Sources](#).

If the police mention, but did not use witness statements and there is no other indication of how a determination was made, use [8 \(Not Reported\)](#).

There are instances when the police do not indicate in the police crash report whether drugs were involved or not, but they do mention that a test was given or ordered.

FOR EXAMPLE: The police may only say that an evidential test was ordered for a driver without indicating that they suspected drugs or what the result was.

Codes 1-7 may be used for METHOD OF DRUG DETERMINATION BY POLICE when [POLICE REPORTED DRUG INVOLVEMENT](#) is coded as [8 \(Not Reported\)](#) or [9 \(Reported as Unknown\)](#), if this fits the case.

This should only happen when the method is stated by the police, but the Involvement is not mentioned at all or stated as unknown.

**Consistency Checks** ([See Section 400](#)):

| <b>Error ID</b> | <b>IF</b>                                                                                       | <b>THEN</b>                                               |
|-----------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| BQ0P            | METHOD OF DRUG DETERMINATION BY POLICE equals 8,                                                | POLICE REPORTED DRUG INVOLVEMENT must equal 0, 1, 8, 9.   |
| BR0P            | METHOD OF DRUG DETERMINATION BY POLICE equals 1-7,                                              | POLICE REPORTED DRUG INVOLVEMENT must equal 0, 1, 8.      |
| P140            | POLICE REPORTED DRUG INVOLVEMENT equals 8, 9,                                                   | METHOD OF DRUG DETERMINATION BY POLICE should equal 8.    |
| P150            | POLICE REPORTED DRUG INVOLVEMENT equals 1 and METHOD OF DRUG DETERMINATION BY POLICE equals 2,  | DRUG TEST STATUS should not equal 0.                      |
| P160            | POLICE REPORTED DRUG INVOLVEMENT equals 1, and METHOD OF DRUG DETERMINATION BY POLICE equals 2, | not all DRUG TEST RESULTS should equal 001.               |
| P170            | METHOD OF DRUG DETERMINATION BY POLICE equals 1-7,                                              | POLICE REPORTED DRUG INVOLVEMENT should equal 0, 1.       |
| P401            | METHOD OF DRUG DETERMINATION BY POLICE equals 1,                                                | DRUG TOXICOLOGY RESULTS Subfield 1-Test Status must be 2. |

## P21/NM21 - Drug Toxicology Results - FARS Only

**FORMAT:** 1 set 1 numeric; Unlimited, 2 numeric; Unlimited, 3 numeric

**SAS NAME:** Person.DSTATUS, Drugs.DRUGSPEC, Drugs.DRUGRES

**ELEMENT VALUES:**

### Subfield 1 - Drug Test Status

| FARS Codes | Attributes                                    |
|------------|-----------------------------------------------|
| 0          | <a href="#">Test Not Given</a>                |
| 2          | <a href="#">Test Given</a>                    |
| 8          | <a href="#">Not Reported</a>                  |
| 9          | <a href="#">Reported as Unknown if Tested</a> |

### Subfield 2 - Drug Specimen

| FARS Codes | Attributes                                    |
|------------|-----------------------------------------------|
| 00         | Test Not Given                                |
| 01         | <a href="#">Whole Blood</a>                   |
| 02         | <a href="#">Urine</a>                         |
| 11         | <a href="#">Blood Plasma/Serum</a>            |
| 12         | <a href="#">Blood Clot</a>                    |
| 13         | <a href="#">Oral Fluids</a>                   |
| 14         | <a href="#">Vitreous</a>                      |
| 15         | <a href="#">Liver</a>                         |
| 97         | <a href="#">Unknown Specimen</a>              |
| 98         | <a href="#">Other Specimen</a>                |
| 96         | <a href="#">Not Reported</a>                  |
| 99         | <a href="#">Reported as Unknown if Tested</a> |

### Subfield 3 - Drug Test Result\*\*

| FARS Codes | Attributes                                      |
|------------|-------------------------------------------------|
| 000        | <a href="#">Test Not Given</a>                  |
| 001        | <a href="#">Tested, No Drugs Found/Negative</a> |
| 100-295    | <a href="#">Narcotic*</a>                       |
| 300-399    | <a href="#">Depressant*</a>                     |
| 400-495    | <a href="#">Stimulant*</a>                      |
| 500-595    | <a href="#">Hallucinogen*</a>                   |

| FARS Codes | Attributes                                                           |
|------------|----------------------------------------------------------------------|
| 600-695    | <a href="#">Cannabinoid*</a>                                         |
| 700-795    | <a href="#">Phencyclidine (PCP)*</a>                                 |
| 800-895    | <a href="#">Anabolic Steroid*</a>                                    |
| 900-995    | <a href="#">Inhalant*</a>                                            |
| 996        | <a href="#">Other Drug</a>                                           |
| 997        | <a href="#">Tested for Drugs, Results Unknown</a>                    |
| 998        | <a href="#">Tested for Drugs, Drugs Found, Type Unknown/Positive</a> |
| 095        | <a href="#">Not Reported</a>                                         |
| 999        | <a href="#">Reported as Unknown If Tested for Drugs</a>              |

\* [See Specific Drug Listings](#)

\*\* Test result does not include aspirin, nicotine, or ethanol. Alcohols reported other than ethanol would be classified under [996 \(Other Drug\)](#).

**Remarks:** When completing this element, you must have the data to fill **ALL** three subfields. Otherwise, leave all three subfields **blank** until all the data has been acquired to complete all three subfields.

For drug tests that were initiated but not completed because of a contaminated or insufficient sample, code:

- Test Status as [2 \(Test Given\)](#),
- the applicable [Specimen](#), and
- code Test Results as [997/Tested for Drugs, Results Unknown](#).

#### **Guidance on crash reported values indicating Test Refused:**

Code all three Subfields as **8/96/095 (Not Reported)**, unless there is clear indication that a test was subsequently performed ([2 \(Test Given\)](#)) or not performed ([0 \(Test Not Given\)](#)). Also, select RELATED FACTORS-DRIVER LEVEL [060 \(Alcohol and/or Drug Test Refused\)](#), RELATED FACTORS-PERSON (MV OCCUPANT) LEVEL [010 \(Alcohol and/or Drug Test Refused\)](#), or RELATED FACTORS-PERSON (NOT A MV OCCUPANT) LEVEL [010 \(Alcohol and/or Drug Test Refused\)](#) anytime it is indicated on the crash report that testing was refused, regardless of subsequent testing.

#### **Subfield 1 - Drug Test Status**

**Definition for Drug Test Status:** This element identifies if a chemical test for the presence of drugs was given to this person.

**0 (Test Not Given)** is used when the case material indicate a drug test was not given. If Test Status is **0 (Test Not Given)** then Specimen and Test Result will also be **00 (Test Not Given)** and **000 (Test Not Given)**.

Most States' practice is that "live" non-drivers are not routinely tested for drugs. Consequently, for live non-drivers **RBIS** will auto-fill **Test Status**, **Specimen**, and **Test**

**Result as Test Not Given.** If you happen to obtain a drug test result for a “live” non-driver, enter **Test Status** as **2 (Test Given)** and the appropriate specimen and results.

**2 (Test Given)** is used when the case material indicate at least one specimen was tested for drugs.

**8 (Not Reported)** Check to see if **0 (Test Not Given)** or **9 (Reported as Unknown if Tested)** are more appropriate for the situation.

If a State’s crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered “**Not Reported.**”

Code **8 (Not Reported)** in these two situations:

1. No field or coding block exists on the State’s crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State’s crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State’s crash report that does not map to any FARS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

**9 (Reported as Unknown if Tested)** is used when the case material specifically indicate “Unknown if Tested.”

### ***Subfield 2 - Drug Specimen***

You may record all reported toxicology lab specimen and **their corresponding results.**

**Definition for Drug Specimen:** This element identifies the bodily tissue or fluid used to perform a chemical test for the presence of drugs in this person.

**01 (Whole Blood)** is used when the case material indicate this was the specimen used to detect the presence of drugs.

Note that there are samples for **01 (Whole Blood)**, **11 (Blood Plasma/Serum)**, and **12 (Blood Clot)**. If the coroner, medical examiner, or State lab reports that the test was a “blood” test (whole blood), this most likely does not refer to blood plasma, blood serum, or blood clot, but you should try to verify this.

**02 (Urine)** is used when the case material indicate this was the specimen used to detect the presence of drugs.

**11 (Blood Plasma/Serum)** is used when the case material indicate this was the specimen used to detect the presence of drugs.

**12 (Blood Clot)** is used when the case material indicate this was the specimen used to detect the presence of drugs.

**13 (Oral Fluids)** is used when the case material indicate this was the specimen used to detect the presence of drugs.

**14 (Vitreous)** is used when the case material indicate this was the specimen used to detect the presence of drugs.

**15 (Liver)** is used when the case material indicate this was the specimen used to detect the presence of drugs.

**97 (Unknown Specimen)** is used when the case material indicate a test was given and the specimen is reported as unknown or pending and unobtainable. ***This attribute should also be used in cases where test results are given, but it cannot be determined which specimen was used in obtaining the results (e.g., blood/urine).***

**98 (Other Specimen)** is used when the case material indicate a specimen used to detect the presence of drugs other than the available attributes.

If a police crash report data element is coded with the attribute “Other” but the officer does not specify what this refers to:

1. Code **98 (Other Specimen)** if the police crash report attribute choices can be matched to or include all the attributes in FARS.
2. Code **96 (Not Reported)** if the police crash report choices cannot be matched to or include all the attributes in FARS.

**96 (Not Reported)** Check to see if 00 (Test Not Given) or 99 (Reported as Unknown if Tested) are more appropriate for the situation.

If a State’s crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered “**Not Reported.**”

Code **96 (Not Reported)** in these two situations:

1. No field or coding block exists on the State’s crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State’s crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State’s crash report that does not map to any FARS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

**99 (Reported as Unknown if Tested)** is used when the case material specifically indicate “Unknown if Tested.”

### ***Subfield 3 - Drug Test Result***

**Definition for Drug Test Result:** This element records the result of a chemical test for the presence of drugs in this person.

**\*\*NOTE: This element excludes Nicotine, Aspirin and Ethanol.** Alcohols reported other than ethanol would be classified under 996 (Other Drug).

**NOTE:** You may record as many separate drug test results and their corresponding specimen as are reported. Use the translation table to assign the three-digit code. If the drug is not on the list, use 996 (Other Drug). Caffeine and mild analgesics are coded 996 (Other Drug).

**000 (Test Not Given)** is used when the case material indicate a drug test was not given. If Test Status is **0 (Test Not Given)** then Specimen and Test Result will also be **00 (Test Not Given)** and **000 (Test Not Given)**.

**001 (Tested, No Drugs Found/Negative)** is used when the case material indicate that a test for the presence of drugs was “negative” or that no drugs were found.

**997 (Tested for Drugs, Results Unknown)** refers to drug tests that were performed but the results are reported as unknown or pending and are unobtainable. **997 (Tested for Drugs, Results Unknown)** can be used for any Specimen.

**NOTE: As a general coding guideline, do not prematurely use Test Result 997 (Tested for Drugs, Results Unknown).** It is recommended that you leave the information **blank** until the test results are received from the State lab, M.E., coroner, or police. You need to be reasonably certain that you will never receive the test results to use code “997” at the time of the initial coding and case entry. Examples of this situation would be if the test results are returned indicating a “Contaminated Sample” or “Insufficient Sample.”

**998 (Tested for Drugs, Drugs Found, Type Unknown/Positive)** can be used for any Specimen code where the result is indicated to be positive without an actual drug identified to record. This value may be used more than once to record multiple substances found.

**NOTE:** This should only be used when a final test result is returned as “positive” with no actual result to record. This can occur when a test is used to identify the presence of any one of several substances without identifying which substances are presumed present and this is the only test result available. Before recording this value make sure that this is the **final** test result.

**095 (Not Reported)** *Check to see if [000 \(Test Not Given\)](#) or [999 \(Reported as Unknown if Tested\)](#) are more appropriate for the situation.*

If a State’s crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered “**Not Reported.**”

Code **095 (Not Reported)** in these two situations:

1. No field or coding block exists on the State’s crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State’s crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State’s crash report that does not map to any FARS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

**999 (Reported as Unknown if Tested for Drugs)** is used when the case material specifically indicate “Unknown if Tested.”



### Examples for Interpreting Drug Tests

| IF YOU HAVE:                                                                                                                             | Status | Specimen<br>1 | Result<br>1 | Specimen<br>2 | Result<br>2 | Specimen<br>3 | Result<br>3 | Specimen<br>4 | Result<br>4 |
|------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|
| Blood and urine tests and the results are the same for both. Example: Blood - Fentanyl; Urine - Fentanyl                                 | 2      | 01            | 151         | 02            | 151         |               |             |               |             |
| Blood and urine tests and the results are different for both. Example: Blood - Hexobarbital, Benzoyllecgonine, Morphine; Urine - Cocaine | 2      | 01            | 333         | 01            | 402         | 01            | 177         | 02            | 407         |
| Both blood and urine tests and the results are given but not linked to either tests. Example: Results - Codeine and Ibogaine             | 2      | 97            | 128         | 97            | 509         |               |             |               |             |
| Blood and vitreous tests. Example: Blood - Diazepam; Vitreous - Cocaine                                                                  | 2      | 01            | 321         | 14            | 407         |               |             |               |             |
| Urine test only and the results: Example: Urine - Benzodiazepines                                                                        | 2      | 02            | 304         |               |             |               |             |               |             |
| Oral Fluid Test only. Example: Oral Fluid - Amphetamine                                                                                  | 2      | 13            | 401         |               |             |               |             |               |             |
| Not tested for drugs.                                                                                                                    | 0      | 00            | 000         |               |             |               |             |               |             |
| Not Reported for drugs                                                                                                                   | 8      | 96            | 095         |               |             |               |             |               |             |
| Reported as Unknown if tested for drugs.                                                                                                 | 9      | 99            | 999         |               |             |               |             |               |             |
| Tested for Drugs, Results Unknown. Example: Blood test - Yes; Results - Unavailable                                                      | 2      | 01            | 997         |               |             |               |             |               |             |
| Tested for Drugs, Drugs Found, Type of Drug Unknown. Example: Urine test - Yes; Drugs found - Yes                                        | 2      | 02            | 998         |               |             |               |             |               |             |
| Both Whole Blood and Urine Tests, one negative and one positive. Example: Blood - Negative; Urine - Benzoyllecgonine                     | 2      | 01            | 001         | 02            | 402         |               |             |               |             |

**Consistency Checks [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                                                                                                   | <b>THEN</b>                                                                                                                                                                                                   |
|-----------------|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7M1F            | PERSON TYPE equals 03, and SEATING POSITION is not equal to 11 or 13, and INJURY SEVERITY does not equal 4, | DRUG TEST STATUS must not equal 8, any DRUG SPECIMEN must not equal 96, and any DRUG TEST RESULTS must not equal 095.                                                                                         |
| BT0P            | DRUG TEST STATUS equals 2,                                                                                  | any DRUG SPECIMEN must not equal 00 or 99 and any DRUG TEST RESULT must not equal 000 or 999.                                                                                                                 |
| BT1P            | DRUG TEST STATUS equals 0,                                                                                  | there must exist only one DRUG SPECIMEN equal to 00 and one DRUG TEST RESULT equal to 000 for this person.                                                                                                    |
| BT2P            | DRUG TEST STATUS equals 8,                                                                                  | there must exist only one DRUG SPECIMEN equal to 96 and one DRUG TEST RESULT equal to 095 for this person.                                                                                                    |
| BT3P            | DRUG TEST STATUS equals 2,                                                                                  | at least one DRUG SPECIMEN must equal 01, 02, 11-15, 96, 97, 98, and one corresponding DRUG TEST RESULT must equal 001, 095, 100-295, 300-395, 400-495, 500-595, 600-695, 700-795, 800-895, 900-995, 996-998. |
| BT6P            | DRUG TEST STATUS equals 9,                                                                                  | there must exist only one DRUG SPECIMEN equal to 99 and one DRUG TEST RESULT equal to 999 for this person.                                                                                                    |
| BT8P            | DRUG TEST RESULT does not equal 996,                                                                        | only one record with the same DRUG SPECIMEN and DRUG TEST RESULT must exist.                                                                                                                                  |
| D733            | at least one RELATED FACTORS - DRIVER LEVEL equals 060 and PERSON TYPE equals 01,                           | ALCOHOL TEST RESULT should equal 995 or at least one DRUG TEST RESULT should equal 095.                                                                                                                       |
| P073            | PERSON TYPE equals 02, 04-07, 10, <b>11, 12, or 13</b> , and INJURY SEVERITY does not equal 4,              | DRUG TEST STATUS should not equal 9, and any DRUG SPECIMEN should not equal 99, and any DRUG TEST RESULTS should not equal 999.                                                                               |
| P075            | PERSON TYPE equals 02, 04-07, 10, <b>11, 12, 13</b> , or 19, and INJURY SEVERITY does not equal 4,          | DRUG TEST STATUS must not equal 8, any DRUG SPECIMEN must not equal 96, and any DRUG TEST RESULTS must not equal 095.                                                                                         |
| P150            | POLICE REPORTED DRUG INVOLVEMENT equals 1 and METHOD OF DRUG DETERMINATION BY POLICE equals 2,              | DRUG TEST STATUS should not equal 0.                                                                                                                                                                          |

| <b>Error ID</b> | <b>IF</b>                                                                                       | <b>THEN</b>                                               |
|-----------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| P160            | POLICE REPORTED DRUG INVOLVEMENT equals 1, and METHOD OF DRUG DETERMINATION BY POLICE equals 2, | not all DRUG TEST RESULTS should equal 001.               |
| P401            | METHOD OF DRUG DETERMINATION BY POLICE equals 1,                                                | DRUG TOXICOLOGY RESULTS Subfield 1-Test Status must be 2. |

## Alphabetical Drug Index - FARS Only

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| Drug                                               | Code       |
|----------------------------------------------------|------------|
| <b>Acetaminophen + Codeine</b>                     | <b>100</b> |
| Acetorphine                                        | 101        |
| Acetyl-alpha-methylfentanyl                        | 102        |
| Acetyldihydrocodeine                               | 103        |
| Acetylmethadol                                     | 104        |
| Aerosols (hydrocarbon)                             | 940        |
| Alfentanil                                         | 105        |
| Allylprodine                                       | 106        |
| Alpha, Beta-dihydroxy-alpha-androstane             | 828        |
| Alphacetylmethadol                                 | 220        |
| Alpha-Ethyltryptamine                              | 523        |
| Alpha-meprodine                                    | 109        |
| Alpha-methyl-alpha-beta-dihydroxy-alpha-androstane | 829        |
| Alpha-methyl-beta-beta-dihydroxy-alpha-androstane  | 830        |
| Alpha-methyl-beta-beta-dihydroxy-androstene        | 831        |
| Alpha-methyl-delta 1-dihydrotestosterone           | 832        |
| Alpha-Methylfentanyl                               | 107        |
| Alpha-methyl-hydroxynandrolone                     | 833        |
| Alphamethylthiofentanyl                            | 108        |
| Alpha-methyltryptamine                             | 534        |
| Alphamethadol                                      | 110        |
| Alphaprodine                                       | 111        |
| Alprazolam                                         | 300        |
| Aminorex                                           | 428        |
| Amobarbital                                        | 301        |
| Amobarbital & non-controlled active ingred.        | 378        |
| Amobarbital suppository dosage form                | 388        |
| Amphetamine                                        | 401        |

| Drug                                  | Code       |
|---------------------------------------|------------|
| Amphetamine Sulfate                   | 400        |
| Amphetamine Variants                  | 500        |
| Amyl Nitrite                          | 921        |
| Anabolic Steroid, Type Unknown        | 895        |
| Androstanedione                       | 834        |
| Androstenediol                        | 835        |
| Androstenedione                       | 836        |
| Anesthetic Gases                      | 920        |
| Anileridine                           | 112        |
| APC + Codeine                         | 113        |
| Aprobarbital                          | 379        |
| Aspirin + Codeine                     | 114        |
| <b>Barbital</b>                       | <b>302</b> |
| Barbiturates                          | 303        |
| Barbituric Acid Derivative            | 380        |
| Benzethidine                          | 115        |
| Benzodiazepines                       | 304        |
| Benzoylecgonine                       | 402        |
| Benzphetamine                         | 403        |
| Benzylfentanyl                        | 305        |
| Benzylmorphine                        | 117        |
| Beta, beta-dihydroxy-alpha-androstane | 837        |
| Beta-hydroxy-3-methylfentanyl         | 221        |
| Beta-hydroxyfentanyl                  | 118        |
| Beta-meprodine                        | 120        |
| Betacetylmethadol                     | 119        |
| Betamethadol                          | 121        |
| Betaprodine                           | 122        |
| Bezitramide                           | 123        |
| Bolasterone                           | 838        |
| Boldenone                             | 800        |
| Bromo-dimethoxyamphetamine            | 524        |

| Drug                           | Code       |
|--------------------------------|------------|
| Bromo-dimethoxyphenethylamine  | 525        |
| Bromazepam                     | 306        |
| Bufotenine                     | 501        |
| Buprenorphine                  | 124        |
| Butabarbital (secbutabarbital) | 307        |
| Butalbital                     | 308        |
| Butobarbital (butethal)        | 389        |
| Butorphanol                    | 218        |
| Butly Nitrite                  | 923        |
| <b>Calusterone</b>             | <b>839</b> |
| Camazepam                      | 309        |
| “Cannabinoid, Type Unknown”    | 695        |
| Carbamate                      | 310        |
| Carfentanil                    | 125        |
| Carisoprodol                   | 376        |
| Cathine (Norpseudoephedrine)   | 404        |
| Cathinone                      | 429        |
| Chloral betaine                | 311        |
| Chloral Hydrate                | 312        |
| Chlordiazepoxide               | 313        |
| Chlorhexadol                   | 314        |
| Chloroform                     | 926        |
| Chlorotestosterone             | 801        |
| Chlorphentermine               | 405        |
| Clobazam                       | 315        |
| Clonazepam                     | 316        |
| Clonitazene                    | 126        |
| Clorazepate Dipotassium        | 317        |
| Clortermine                    | 406        |
| Clostebol                      | 827        |
| Clotiazepam                    | 318        |
| Cloxazolam                     | 319        |
| Coca Leaves                    | 430        |

| Drug                                           | Code       |
|------------------------------------------------|------------|
| Cocaine                                        | 407        |
| Codeine                                        | 128        |
| Codeine combination product 90 mg/du           | 240        |
| Codeine preparations - 200 mg/100 ml or 100 gm | 241        |
| Codeine & Isoquinoline                         | 222        |
| Codeine methylbromide                          | 127        |
| Codeine-N-oxide                                | 223        |
| Cyprenorphine                                  | 129        |
| <b>Dehydrochloromethyltestosterone</b>         | <b>803</b> |
| Delorazepam                                    | 320        |
| Delta 1-dihydrotestosterone                    | 840        |
| Delta 9                                        | 600        |
| “Depressants, Type Unknown”                    | 395        |
| Desomorphine                                   | 130        |
| Dexfenfluramine                                | 383        |
| Dextroamphetamine                              | 408        |
| Dextromoramide                                 | 131        |
| Dextropropoxyphene (dosage forms)              | 224        |
| Diampromide                                    | 133        |
| Diazepam                                       | 321        |
| Dichloralphenazone                             | 431        |
| Diethylpropion                                 | 409        |
| Diethylthiambutene                             | 134        |
| Diethyltryptamine (DET)                        | 503        |
| Difenoxin                                      | 135        |
| Difenoxin 1 mg/25ug AtSO4/du                   | 242        |
| Difenoxin preparations - 0.5 mg/25 ug AtSO4/du | 243        |
| Dihydrocodeine                                 | 136        |
| Dihydrocodeine combination product 90 mg/du    | 244        |

| Drug                                               | Code       |
|----------------------------------------------------|------------|
| Dihydrocodeine preparations 10 mg/100 ml or 100 gm | 245        |
| Dihydroetorphine                                   | 226        |
| Dihydromorphine                                    | 137        |
| Dihydrotestosterone                                | 804        |
| Dimenoxadol                                        | 138        |
| Dimepheptanol (Racemethadol)                       | 139        |
| Dimethoxyamphetamine (DMA)                         | 504        |
| Dimethoxyethylamphetamine                          | 535        |
| Dimethoxy-(n)-propyl-thiophenethylamine            | 536        |
| Dimethylthiambutene                                | 140        |
| Dimethyltryptamine (DMT)                           | 505        |
| Dioxaphetyl Butyrate                               | 141        |
| Diphenoxylate                                      | 142        |
| Diphenoxylate preparations 2.5 mg/25 ug AtSO4      | 246        |
| Dipipanone                                         | 143        |
| Diprenorphine                                      | 227        |
| Diprenorphine Hydrochloride                        | 144        |
| Dronabinol                                         | 507        |
| Drostanolone                                       | 805        |
| Drotebanol                                         | 145        |
| <b>Ecgonine</b>                                    | <b>410</b> |
| Embutramide                                        | 390        |
| Estazolam                                          | 322        |
| Ethchlorvynol                                      | 323        |
| Ether                                              | 925        |
| Ethinamate                                         | 324        |
| Ethyl Ioflazepate                                  | 325        |
| Ethylmorphine combination product 15 mg/du         | 247        |
| Ethylmorphine preparations 100 mg/100 ml or 100 gm | 248        |

| Drug                                   | Code       |
|----------------------------------------|------------|
| Ethylamine                             | 700        |
| Ethylestrenol                          | 806        |
| Ethylmethylthiambutene                 | 146        |
| Ethylmorphine                          | 147        |
| Etonitazene                            | 148        |
| Etorphine                              | 149        |
| Etoperidine                            | 150        |
| <b>Fencamfamin</b>                     | <b>411</b> |
| Fenethylamine                          | 412        |
| Fenfluramine                           | 413        |
| Fenproporex                            | 414        |
| Fentanyl                               | 151        |
| Fiorinal + Codeine                     | 152        |
| Fiorinal                               | 326        |
| Fludiazepam                            | 327        |
| Flunitrazepam                          | 328        |
| Fluoxymesterone                        | 807        |
| Flurazepam                             | 384        |
| Formebolone (Formebolone)              | 808        |
| Frying Pan Lubricants                  | 944        |
| Furazabol                              | 841        |
| Furethidine                            | 153        |
| <b>Gamma Hydroxybutyric (GHB)</b>      | <b>377</b> |
| Gamma Hydroxybutyric Acid preparations | 391        |
| Glass Chillers                         | 943        |
| Glutethimide                           | 330        |
| <b>Hair spray</b>                      | <b>941</b> |
| Halazepam                              | 331        |
| “Hallucinogens, Type Unknown”          | 595        |
| Haloxazolam                            | 332        |
| Hashish                                | 602        |
| Hashish Oil                            | 601        |

| Drug                                         | Code       |
|----------------------------------------------|------------|
| Heroin (Diacetylmorphine)                    | 154        |
| Hexobarbital                                 | 333        |
| Hydrocodone                                  | 155        |
| Hydrocodone & isoquinoline alkaloid<15 mg/du | 249        |
| Hydrocodone combination product<15 mg/du     | 250        |
| Hydromorphanol                               | 156        |
| Hydromorphone                                | 157        |
| Hydroxy-Nortestosterone                      | 842        |
| Hydroxypethidine                             | 158        |
| Hydroxytestosterone                          | 843        |
| Hydroxyzine                                  | 334        |
| <b>Ibogaine</b>                              | <b>509</b> |
| “Inhalants, Type Unknown”                    | 995        |
| Insecticides                                 | 942        |
| Isomethadone                                 | 159        |
| <b>Ketamine</b>                              | <b>522</b> |
| Ketazolam                                    | 335        |
| Ketobemidone                                 | 160        |
| <b>Lacquer Thinners</b>                      | <b>904</b> |
| Levo-alphaacetylmethadol                     | 228        |
| Levomoramide                                 | 161        |
| Levophenacymorphan                           | 162        |
| Levomethorphan                               | 163        |
| Levorphanol                                  | 229        |
| Levorphanol Tartrate                         | 164        |
| Lisdexamfetamine                             | 436        |
| Loprazolam                                   | 336        |
| Lorazepam                                    | 337        |
| Lormetazepam                                 | 338        |
| Lysergic Acid                                | 511        |
| Lysergic Acid Amide                          | 527        |

| Drug                                | Code       |
|-------------------------------------|------------|
| Lysergic Acid Diethylamide (LSD)    | 528        |
| <b>Marijuana/Marihuana</b>          | <b>603</b> |
| Marinol                             | 604        |
| Mazindol                            | 415        |
| Mebutamate                          | 339        |
| Mecloqualone                        | 340        |
| Medazepam                           | 341        |
| Mefenorex                           | 416        |
| Meperidine (Pethidine)              | 165        |
| Meperidine intermediate-A           | 251        |
| Meperidine intermediate-B           | 252        |
| Meperidine intermediate-C           | 253        |
| Mephobarbital (Methylphenobarbital) | 342        |
| Meprobamate                         | 343        |
| Mescaline                           | 512        |
| Mestanolone                         | 844        |
| Mesterolone                         | 809        |
| Metazocine                          | 166        |
| Methadone                           | 167        |
| Methadone intermediate              | 254        |
| Methamphetamine                     | 417        |
| Methandienone                       | 810        |
| Methandranone                       | 811        |
| Methandriol                         | 812        |
| Methandrostenolone                  | 813        |
| Methaqualone                        | 344        |
| Metharbital                         | 345        |
| Methcathinone                       | 432        |
| Methenolone                         | 814        |
| Methohexital                        | 346        |
| Methoxyamphetamine (PMA)            | 514        |



| Drug                                              | Code |
|---------------------------------------------------|------|
| Methoxy-Methylenedioxy-amphetamine                | 437  |
| Methoxy-NN-disopropyltryptamine                   | 537  |
| Methylaminorex                                    | 442  |
| Methyl-desorphine                                 | 168  |
| Methyldienolone                                   | 845  |
| Methyldihydromorphine                             | 169  |
| Methyl-dimethoxyamphetamine                       | 530  |
| Methylenedioxy-N-ethylamphetamine                 | 531  |
| Methylenedioxyamphetamine (MDA)                   | 515  |
| Methylenedioxymethamphetamine (MDMA)              | 513  |
| Methylfentanyl                                    | 170  |
| Methylone                                         | 435  |
| Methylphenidate                                   | 418  |
| Methyl-phenyl-propionoxypiperidine (MPPP)         | 171  |
| Methyltestosterone                                | 815  |
| Methylthiofentanyl                                | 230  |
| Methyltrienolone                                  | 846  |
| Methypylon                                        | 347  |
| Metopon                                           | 172  |
| Mibolerone                                        | 816  |
| Midazolam                                         | 348  |
| Modafinil                                         | 433  |
| Moramide - intermediate                           | 173  |
| Morpheridine                                      | 174  |
| Morphine                                          | 177  |
| Morphine combination product/ 50 mg/ 100 ml or gm | 255  |
| Morphine methylbromide                            | 176  |
| Morphine methylsulfonate                          | 175  |
| Morphine-N-oxide                                  | 231  |

| Drug                                           | Code       |
|------------------------------------------------|------------|
| Myrophine                                      | 178        |
| <b>Nabilone</b>                                | <b>516</b> |
| Nalorphine                                     | 179        |
| Nandrolone                                     | 817        |
| “Narcotics, Type Unknown”                      | 295        |
| N-Benzylpiperazine                             | 439        |
| N-Ethyl-1-phenylcyclohexylamine                | 533        |
| N-Ethyl-3piperidyl benzilate                   | 508        |
| N-Ethylamphetamine                             | 419        |
| N-Hydroxymethylenedioxy-amphetamine            | 538        |
| Nicocodeine                                    | 180        |
| Nicomorphine                                   | 181        |
| Nimetazepam                                    | 349        |
| Nitrazepam                                     | 350        |
| Nitrous Oxide                                  | 924        |
| N-Methylpiperidyl benzilate                    | 539        |
| N, N-Dimethylamphetamine (Dimethylamphetamine) | 438        |
| Noracymethadol                                 | 182        |
| Norandrostenediol                              | 847        |
| Norandrostenedione                             | 848        |
| Norbolethone                                   | 849        |
| Norclostebol                                   | 850        |
| Nordiazepam                                    | 351        |
| Norethandrolone                                | 818        |
| Norlevorphanol                                 | 183        |
| Normethadone                                   | 184        |
| Normethandrolone                               | 851        |
| Normorphine                                    | 185        |
| Norpipanone                                    | 186        |
| <b>Opium</b>                                   | <b>187</b> |
| Opium combination product 25 mg/du             | 256        |

| Drug                                          | Code       |
|-----------------------------------------------|------------|
| Opium extract                                 | 232        |
| Opium fluid extract                           | 233        |
| Opium, granulated                             | 258        |
| Opium Poppy                                   | 234        |
| Opium, powdered                               | 259        |
| Opium preparations - 100 mg/ 100 ml or 100 gm | 257        |
| Opium Tincture                                | 235        |
| Oripavine                                     | 260        |
| “Other”                                       | 996        |
| Oxandrolone                                   | 819        |
| Oxazepam                                      | 352        |
| Oxazolam                                      | 353        |
| Oxycodone                                     | 189        |
| Oxymesterone                                  | 820        |
| Oxymetholone                                  | 821        |
| Oxymorphone                                   | 188        |
| <b>Paint and Paint Removers</b>               | <b>902</b> |
| Para-fluorofentanyl                           | 190        |
| Parahexyl (Synhexyl)                          | 701        |
| Paraldehyde                                   | 354        |
| Paregoric                                     | 191        |
| Parepectolin                                  | 192        |
| “PCP, Type Unknown”                           | 795        |
| Pemoline                                      | 420        |
| Pentazocine                                   | 193        |
| Pentobarbital                                 | 355        |
| Pentobarbital & noncontrolled active ingred.  | 393        |
| Pentobarbital suppository dosage form         | 394        |
| Petrichloral                                  | 356        |
| “Petroleum Products (gasoline, kerosene)”     | 903        |

| Drug                                         | Code |
|----------------------------------------------|------|
| Peyote                                       | 517  |
| Phenadoxone                                  | 195  |
| Phenampromide                                | 196  |
| Phenanthrine                                 | 197  |
| Phenazocine                                  | 198  |
| Phencyclidine                                | 702  |
| Phencyclidine Analogs                        | 703  |
| Phenylcyclohexyl-Pyrrolidine                 | 709  |
| Phenylethyl-phenyl-acetoxypiperidine (PEPAP) | 236  |
| Phencyclohexylamine                          | 357  |
| Phendimetrazine                              | 421  |
| Phenmetrazine                                | 422  |
| Phenobarbital                                | 358  |
| Phenomorphane                                | 199  |
| Phenoperidine                                | 200  |
| Phentermine                                  | 423  |
| Phenylacetone (P2P)                          | 518  |
| Phenylcyclohexylamine                        | 704  |
| Pholcodine                                   | 202  |
| Piminodine                                   | 203  |
| Pinazepam                                    | 359  |
| Piperidinocyclohexane-carbonitrile (PCC)     | 705  |
| Pipradrol                                    | 424  |
| Piritramide                                  | 204  |
| Plastic Cement (airplane glue)               | 901  |
| Poppy Straw                                  | 237  |
| Poppy Straw Concentrate                      | 238  |
| Prazepam                                     | 360  |
| Pregabalin                                   | 396  |
| Proheptazine                                 | 205  |
| Properidine                                  | 206  |

| Drug                                                       | Code       |
|------------------------------------------------------------|------------|
| Propiram                                                   | 207        |
| Propoxyphene (Dextropropoxyphene, bulk (non-dosage forms)) | 208        |
| Propylhexedrine                                            | 425        |
| Psilocybin                                                 | 519        |
| Psilocyn                                                   | 520        |
| Pyrovalerone                                               | 426        |
| “Pyrrolidine (PCPy, PHP, TCPy)”                            | 706        |
| <b>Quazepam</b>                                            | <b>361</b> |
| <b>Racemethorphan</b>                                      | <b>209</b> |
| Racemoramide                                               | 210        |
| Racemorphan                                                | 211        |
| Remifentanil                                               | 239        |
| <b>Secobarbital</b>                                        | <b>362</b> |
| Secobarbital & noncontrolled active ingred.                | 397        |
| Secobarbital suppository dosage form                       | 398        |
| Sibutramine                                                | 385        |
| SPA                                                        | 427        |
| Stanolone                                                  | 822        |
| Stanozolol                                                 | 823        |
| Stenbolone                                                 | 852        |
| Stimulant compounds previously excepted                    | 440        |
| “Stimulants, Type Unknown”                                 | 495        |
| Sufentanil                                                 | 212        |
| Sulfondiethylmethane                                       | 363        |
| Sulfonethylmethane                                         | 364        |
| Sulfonmethane                                              | 365        |
| <b>Talbutal</b>                                            | <b>366</b> |
| Temazepam                                                  | 367        |
| Tested; Drugs Found; Type Unknown/Positive                 | 998        |

| Drug                               | Code       |
|------------------------------------|------------|
| Tested; Results unknown            | 997        |
| Testolactone                       | 824        |
| Testosterone                       | 825        |
| Tetrahydrocannabinols (THC)        | 605        |
| Tetrahydrogestrinone               | 853        |
| Tetrazepam                         | 368        |
| Thebacon                           | 213        |
| Thebaine                           | 214        |
| Thenylfentanyl                     | 369        |
| Thiamylal                          | 370        |
| Thienyl-cyclohexyl-piperidine      | 708        |
| Thienyl Cyclohexyl Pyrrolidine     | 710        |
| Thiofentanyl                       | 215        |
| Thiopental (Pentothal)             | 371        |
| Thiophene                          | 707        |
| Tiletamine/Zolazepam (Telazol)     | 372        |
| Tilidine                           | 216        |
| Traizolam                          | 373        |
| Trenbolone                         | 826        |
| Trimeperidine                      | 217        |
| Trimethoxy amphetamine             | 521        |
| Tybamate                           | 374        |
| <b>Unknown if Tested for Drugs</b> | <b>999</b> |
| <b>Vinbarbital</b>                 | <b>434</b> |
| Volatile Solvents (toluene)        | 900        |
| <b>Zaleplon</b>                    | <b>386</b> |
| Zolpidem                           | 387        |
| Zopiclone                          | 399        |

## **Drugs by Category Type - FARS Only**

**100 - 295        Narcotics**

**300 - 399        Depressants**

**400 - 495        Stimulants**

**500 - 595        Hallucinogens**

**600 - 695        Cannabinoid**

**700 - 795        PCP**

**800 - 895        Anabolic Steroids**

**900 - 995        Inhalant**

**095, 996 - 999   Not Reported/Other/Unknown**

**100-295 Narcotics**

| Code | Drug                        |
|------|-----------------------------|
| 100  | Acetaminophen + Codeine     |
| 101  | Acetorphine                 |
| 102  | Acetyl-alpha-methylfentanyl |
| 103  | Acetyldihydrocodeine        |
| 104  | Acetylmethadol              |
| 105  | Alfentanil                  |
| 106  | Allylprodine                |
| 107  | Alpha-Methylfentanyl        |
| 108  | Alphamethythiofentanyl      |
| 109  | Alpha-meprodine             |
| 110  | Alphamethadol               |
| 111  | Alphaprodine                |
| 112  | Anileridine                 |
| 113  | APC + Codeine               |
| 114  | Aspirin + Codeine           |
| 117  | Benzylmorphine              |
| 118  | Beta-hydroxyfentanyl        |
| 119  | Betacetylmethadol           |
| 120  | Beta-meprodine              |
| 121  | Betamethadol                |
| 122  | Betaprodine                 |
| 123  | Bezitramide                 |
| 124  | Buprenorphine               |
| 125  | Carfentanil                 |
| 126  | Clonitazene                 |
| 127  | Codeine methylbromide       |
| 128  | Codeine                     |
| 129  | Cyprenorphine               |
| 130  | Desomorphine                |
| 131  | Dextromoramide              |
| 133  | Diampromide                 |

| Code | Drug                         |
|------|------------------------------|
| 134  | Diethylthiambutene           |
| 135  | Difenoxin                    |
| 136  | Dihydrocodeine               |
| 137  | Dihydromorphine              |
| 138  | Dimenoxadol                  |
| 139  | Dimepheptanol (Racemethadol) |
| 140  | Dimethylthiambutene          |
| 141  | Dioxaphetyl Butyrate         |
| 142  | Diphenoxylate                |
| 143  | Dipipanone                   |
| 144  | Diprenorphine Hydrochloride  |
| 145  | Drotebanol                   |
| 146  | Ethylmethylthiambutene       |
| 147  | Ethylmorphine                |
| 148  | Etonitazene                  |
| 149  | Etorphine                    |
| 150  | Etoxeridine                  |
| 151  | Fentanyl                     |
| 152  | Fiorinal + Codeine           |
| 153  | Furethidine                  |
| 154  | Heroin (Diacetylmorphine)    |
| 155  | Hydrocodone                  |
| 156  | Hydromorphenol               |
| 157  | Hydromorphone                |
| 158  | Hydroxypethidine             |
| 159  | Isomethadone                 |
| 160  | Ketobemidone                 |
| 161  | Levomoramide                 |
| 162  | Levophenacymorphan           |
| 163  | Levomethorphan               |
| 164  | Levorphanol Tartrate         |

| Code | Drug                                      |
|------|-------------------------------------------|
| 165  | Meperidine (Pethidine)                    |
| 166  | Metazocine                                |
| 167  | Methadone                                 |
| 168  | Methyldesorphine                          |
| 169  | Methyldihydromorphine                     |
| 170  | Methylfentanyl                            |
| 171  | Methyl-phenyl-propionoxypiperidine (MPPP) |
| 172  | Metopon                                   |
| 173  | Moramide - intermediate                   |
| 174  | Morpheridine                              |
| 175  | Morphine methylsulfonate                  |
| 176  | Morphine methylbromide                    |
| 177  | Morphine                                  |
| 178  | Myrophine                                 |
| 179  | Nalorphine                                |
| 180  | Nicocodeine                               |
| 181  | Nicomorphine                              |
| 182  | Noracymethadol                            |
| 183  | Norlevorphanol                            |
| 184  | Normethadone                              |
| 185  | Normorphine                               |
| 186  | Norpipanone                               |
| 187  | Opium                                     |
| 188  | Oxymorphone                               |
| 189  | Oxycodone                                 |
| 190  | Para-fluorofentanyl                       |
| 191  | Paregoric                                 |
| 192  | Parepectolin                              |
| 193  | Pentazocine                               |
| 195  | Phenadoxone                               |
| 196  | Phenampromide                             |

| Code | Drug                                                        |
|------|-------------------------------------------------------------|
| 197  | Phenanthrine                                                |
| 198  | Phenazocine                                                 |
| 199  | Phenomorphane                                               |
| 200  | Phenoperidine                                               |
| 202  | Pholcodine                                                  |
| 203  | Piminodine                                                  |
| 204  | Piritramide                                                 |
| 205  | Proheptazine                                                |
| 206  | Properidine                                                 |
| 207  | Propiram                                                    |
| 208  | Propoxyphene (Dextropropoxy-phene, bulk (non-dosage forms)) |
| 209  | Racemethorphan                                              |
| 210  | Racemoramide                                                |
| 211  | Racemorphan                                                 |
| 212  | Sufentanil                                                  |
| 213  | Thebacon                                                    |
| 214  | Thebaine                                                    |
| 215  | Thiofentanyl                                                |
| 216  | Tilidine                                                    |
| 217  | Trimeperidine                                               |
| 218  | Butorphanol                                                 |
| 220  | Alphacetylmethadol                                          |
| 221  | Beta-Hydroxy-3-methylfentanyl                               |
| 222  | Codeine & Isoquinoline                                      |
| 223  | Codeine-N-oxide                                             |
| 224  | Dextropropoxyphene (dosage forms)                           |
| 226  | Dihydroetorphine                                            |
| 227  | Diprenorphine                                               |
| 228  | Levo-alphacetylmethadol                                     |
| 229  | Levorphanol                                                 |
| 230  | Methylthiofentanyl                                          |

| Code | Drug                                                        |
|------|-------------------------------------------------------------|
| 231  | Morphine-N-oxide                                            |
| 232  | Opium extract                                               |
| 233  | Opium Fluid Extract                                         |
| 234  | Opium Poppy                                                 |
| 235  | Opium Tincture                                              |
| 236  | Phenylethyl-phenyl-acetoxypiperidine (PEPAP)                |
| 237  | Poppy Straw                                                 |
| 238  | Poppy Straw Concentrate                                     |
| 239  | Remifentanyl                                                |
| 240  | Codeine combination product 90 mg/du                        |
| 241  | Codeine preparations - 200 mg/100 ml or 100 gm              |
| 242  | Difenoxin 1 mg/25ug AtSO <sub>4</sub> /du                   |
| 243  | Difenoxin preparations - 0.5 mg/25 ug AtSO <sub>4</sub> /du |
| 244  | Dihydrocodeine combination product 90 mg/du                 |
| 245  | Dihydrocodeine preparations 10 mg/100 ml or 100 gm          |
| 246  | Diphenoxylate preparations 2.5 mg/25 ug AtSO <sub>4</sub>   |

| Code | Drug                                               |
|------|----------------------------------------------------|
| 247  | Ethylmorphine combination product 15 mg/du         |
| 248  | Ethylmorphine preparations 100 mg/100 ml or 100 gm |
| 249  | Hydrocodone & isoquinoline alkaloid<15 mg/du       |
| 250  | Hydrocodone combination product<15 mg/du           |
| 251  | Meperidine intermediate-A                          |
| 252  | Meperidine intermediate-B                          |
| 253  | Meperidine intermediate-C                          |
| 254  | Methadone intermediate                             |
| 255  | Morphine combination product/ 50 mg/100 ml or gm   |
| 256  | Opium combination product 25 mg/du                 |
| 257  | Opium preparations - 100 mg/ 100 ml or/100 gm      |
| 258  | Opium, granulated                                  |
| 259  | Opium, powdered                                    |
| 260  | Oripavine                                          |
| 295  | “Narcotics, Type Unknown”                          |

**300-399 Depressants**

| Code | Drug                           |
|------|--------------------------------|
| 300  | Alprazolam                     |
| 301  | Amobarbital                    |
| 302  | Barbital                       |
| 303  | Barbiturates                   |
| 304  | Benzodiazepines                |
| 305  | Benzylfentanyl                 |
| 306  | Bromazepam                     |
| 307  | Butabarbital (secbutabarbital) |
| 308  | Butalbital                     |
| 309  | Camazepam                      |
| 310  | Carbamate                      |
| 311  | Chloral betaine                |
| 312  | Chloral Hydrate                |
| 313  | Chlordiazepoxide               |
| 314  | Chlorhexadol                   |
| 315  | Clobazam                       |
| 316  | Clonazepam                     |
| 317  | Clorazepate Dipotassium        |
| 318  | Clotiazepam                    |
| 319  | Cloxazolam                     |
| 320  | Delorazepam                    |
| 321  | Diazepam                       |
| 322  | Estazolam                      |
| 323  | Ethchlorvynol                  |
| 324  | Ethinamate                     |
| 325  | Ethyl Ioflazepate              |
| 326  | Fiorinal                       |
| 327  | Fludiazepam                    |
| 328  | Flunitrazepam                  |
| 330  | Glutethimide                   |

| Code | Drug                                |
|------|-------------------------------------|
| 331  | Halazepam                           |
| 332  | Haloxazolam                         |
| 333  | Hexobarbital                        |
| 334  | Hydroxyzine                         |
| 335  | Ketazolam                           |
| 336  | Loprazolam                          |
| 337  | Lorazepam                           |
| 338  | Lormetazepam                        |
| 339  | Mebutamate                          |
| 340  | Mecloqualone                        |
| 341  | Medazepam                           |
| 342  | Mephobarbital (Methylphenobarbital) |
| 343  | Meprobamate                         |
| 344  | Methaqualone                        |
| 345  | Metharbital                         |
| 346  | Methohexital                        |
| 347  | Methyprylon                         |
| 348  | Midazolam                           |
| 349  | Nimetazepam                         |
| 350  | Nitrazepam                          |
| 351  | Nordiazepam                         |
| 352  | Oxazepam                            |
| 353  | Oxazolam                            |
| 354  | Paraldehyde                         |
| 355  | Pentobarbital                       |
| 356  | Petrichloral                        |
| 357  | Phencyclohexylamine                 |
| 358  | Phenobarbital                       |
| 359  | Pinazepam                           |
| 360  | Prazepam                            |



| Code | Drug                                        |
|------|---------------------------------------------|
| 361  | Quazepam                                    |
| 362  | Secobarbital                                |
| 363  | Sulfondiethylmethane                        |
| 364  | Sulfonethylmethane                          |
| 365  | Sulfonmethane                               |
| 366  | Talbutal                                    |
| 367  | Temazepam                                   |
| 368  | Tetrazepam                                  |
| 369  | Thenylfentanyl                              |
| 370  | Thiamylal                                   |
| 371  | Thiopental (Pentothal)                      |
| 372  | Tiletamine/ Zolazepam (Telazol)             |
| 373  | Traizolam                                   |
| 374  | Tybamate                                    |
| 376  | Carisoprodol                                |
| 377  | Gamma-Hydroxybutyric Acid (GHB)             |
| 378  | Amobarbital & non-controlled active ingred. |
| 379  | Aprobarbital                                |

| Code | Drug                                         |
|------|----------------------------------------------|
| 380  | Barbituric Acid Derivative                   |
| 383  | Dexfenfluramine                              |
| 384  | Flurazepam                                   |
| 385  | Sibutramin                                   |
| 386  | Zaleplon                                     |
| 387  | Zolpidem                                     |
| 388  | Amobarbital suppository dosage form          |
| 389  | Butobarbital (butethal)                      |
| 390  | Embutramide                                  |
| 391  | Gamma Hydroxybutyric Acid preparations       |
| 393  | Pentobarbital & noncontrolled active ingred. |
| 394  | Pentobarbital suppository dosage form        |
| 395  | “Depressants, Type Unknown”                  |
| 396  | Pregabalin                                   |
| 397  | Secobarbital & noncontrolled active ingred.  |
| 398  | Secobarbital suppository dosage form         |
| 399  | Zopiclone                                    |

#### **400-495 Stimulants**

| Code | Drug                         |
|------|------------------------------|
| 400  | Amphetamine Sulfate          |
| 401  | Amphetamine                  |
| 402  | Benzoylecgonine              |
| 403  | Benzphetamine                |
| 404  | Cathine (Norpseudoephedrine) |
| 405  | Chlorphentermine             |
| 406  | Clortermine                  |
| 407  | Cocaine                      |
| 408  | Dextroamphetamine            |
| 409  | Diethylpropion               |

| Code | Drug               |
|------|--------------------|
| 410  | Ecgonine           |
| 411  | Fencamfamin        |
| 412  | Fenethylamine      |
| 413  | Fenfluramine       |
| 414  | Fenproporex        |
| 415  | Mazindol           |
| 416  | Mefenorex          |
| 417  | Methamphetamine    |
| 418  | Methylphenidate    |
| 419  | N-Ethylamphetamine |

| Code | Drug               |
|------|--------------------|
| 420  | Pemoline           |
| 421  | Phendimetrazine    |
| 422  | Phenmetrazine      |
| 423  | Phentermine        |
| 424  | Pipradrol          |
| 425  | Propylhexedrine    |
| 426  | Pyrovalerone       |
| 427  | SPA                |
| 428  | Aminorex           |
| 429  | Cathinone          |
| 430  | Coca Leaves        |
| 431  | Dichloralphenazone |

| Code | Drug                                           |
|------|------------------------------------------------|
| 432  | Methcathinone                                  |
| 433  | Modafinil                                      |
| 434  | Vinbarbital                                    |
| 435  | Methylone                                      |
| 436  | Lisdexamfetamine                               |
| 437  | Methoxy-Methylenedioxyamphetamine              |
| 438  | N, N-Dimethylamphetamine (Dimethylamphetamine) |
| 439  | N-Benzylpiperazine                             |
| 440  | Stimulant compounds previously excepted        |
| 495  | “Stimulants, Type Unknown”                     |

### **500-595 Hallucinogens**

| Code | Drug                                 |
|------|--------------------------------------|
| 500  | Amphetamine Variants                 |
| 501  | Bufotenine                           |
| 503  | Diethyltryptamine (DET)              |
| 504  | Dimethoxyamphetamine (DMA)           |
| 505  | Dimethyltryptamine (DMT)             |
| 506  | DMA                                  |
| 507  | Dronabinol                           |
| 508  | N-Ethyl-3piperdyl benzilate          |
| 509  | Ibogaine                             |
| 511  | Lysergic Acid                        |
| 512  | Mescaline                            |
| 513  | Methylenedioxymethamphetamine (MDMA) |
| 514  | Methoxyamphetamine (PMA)             |
| 515  | Methylenedioxyamphetamine (MDA)      |
| 516  | Nabilone                             |
| 517  | Peyote                               |

| Code | Drug                              |
|------|-----------------------------------|
| 518  | Phenylacetone (P2P)               |
| 519  | Psilocybin                        |
| 520  | Psilocyn                          |
| 521  | Trimethoxy amphetamine            |
| 522  | Ketamine                          |
| 523  | Alpha-Ethyltryptamine             |
| 524  | Bromo-dimethoxyamphetamine        |
| 525  | Bromo-dimethoxyphenethylamine     |
| 527  | Lysergic Acid Amide               |
| 528  | Lysergic Acid Diethylamide (LSD)  |
| 529  | Methylaminorex                    |
| 530  | Meth-dimethoxyamphetamine         |
| 531  | Methylenedioxy-N-ethylamphetamine |
| 533  | N-Ethyl-1-phenylcyclohexylamine   |
| 534  | Alpha-methyltryptamine            |
| 535  | Dimethoxyethylamphetamine         |

| Code | Drug                                   |
|------|----------------------------------------|
| 536  | Dimethoxy-(n)-propylthiophenethylamine |
| 537  | Methoxy-NN-diisopropyltryptamine       |

| Code | Drug                                |
|------|-------------------------------------|
| 538  | N-Hydroxymethylenedioxy-amphetamine |
| 539  | N-Methylpiperidyl benzilate         |
| 595  | “Hallucinogens, Type Unknown”       |

### **600-695 Cannabinoid**

| Code | Drug                |
|------|---------------------|
| 600  | Delta 9             |
| 601  | Hashish Oil         |
| 602  | Hashish             |
| 603  | Marijuana/Marihuana |

| Code | Drug                        |
|------|-----------------------------|
| 604  | Marinol                     |
| 605  | Tetrahydrocannabinols (THC) |
| 695  | “Cannabinoid, Type Unknown” |

### **700-795 PCP**

| Code | Drug                                     |
|------|------------------------------------------|
| 700  | Ethylamine                               |
| 701  | Parahexyl (Synhexyl)                     |
| 702  | Phencyclidine                            |
| 703  | Phencyclidine Analogs                    |
| 704  | Phenylcyclohexylamine                    |
| 705  | Piperidinocyclohexane-carbonitrile (PCC) |

| Code | Drug                            |
|------|---------------------------------|
| 706  | “Pyrrolidine (PCPy, PHP, TCPy)” |
| 707  | Thiophene                       |
| 708  | Thienyl Cyclohexyl/piperidine   |
| 709  | Phenylcyclohexyl-Pyrrolidine    |
| 710  | Thienyl Cyclohexyl Pyrrolidine  |
| 795  | “PCP, Type Unknown”             |

### **800-895 Anabolic Steroids**

| Code | Drug                            |
|------|---------------------------------|
| 800  | Boldenone                       |
| 801  | Chlorotestosterone              |
| 803  | Dehydrochloromethyltestosterone |
| 804  | Dihydrotestosterone             |
| 805  | Drostanolone                    |
| 806  | Ethylestrenol                   |
| 807  | Fluoxymesterone                 |
| 808  | Formebolone (Formebolone)       |
| 809  | Mesterolone                     |

| Code | Drug               |
|------|--------------------|
| 810  | Methandienone      |
| 811  | Methandranone      |
| 812  | Methandriol        |
| 813  | Methandrostenolone |
| 814  | Methenolone        |
| 815  | Methyltestosterone |
| 816  | Mibolerone         |
| 817  | Nandrolone         |
| 818  | Norethandrolone    |

| Code | Drug                                               |
|------|----------------------------------------------------|
| 819  | Oxandrolone                                        |
| 820  | Oxymesterone                                       |
| 821  | Oxymetholone                                       |
| 822  | Stanolone                                          |
| 823  | Stanozolol                                         |
| 824  | Testolactone                                       |
| 825  | Testosterone                                       |
| 826  | Trenbolone                                         |
| 827  | Clostebol                                          |
| 828  | Alpha, Beta-dihydroxy-alpha-androstane             |
| 829  | Alpha-methyl-alpha-beta-dihydroxy-alpha-androstane |
| 830  | Alpha-methyl-beta-beta-dihydroxy-alpha-androstane  |
| 831  | Alpha-methyl-beta-beta-dihydroxy-androstene        |
| 832  | Alpha-methyl-delta 1-dihydrotestosterone           |
| 833  | Alpha-methyl-hydroxynandrolone                     |
| 834  | Androstanedione                                    |
| 835  | Androstenediol                                     |
| 836  | Androstenedione                                    |

### **900-995 Inhalant**

| Code | Drug                                      |
|------|-------------------------------------------|
| 900  | Volatile Solvents (toluene)               |
| 901  | Plastic Cement (airplane glue)            |
| 902  | Paint and Paint Removers                  |
| 903  | “Petroleum Products (gasoline, kerosene)” |
| 904  | Lacquer Thinners                          |
| 920  | Anesthetic Gases                          |
| 921  | Amyl Nitrite                              |
| 923  | Butly Nitrite                             |

| Code | Drug                                  |
|------|---------------------------------------|
| 837  | Beta, beta-dihydroxy-alpha-androstane |
| 838  | Bolasterone                           |
| 839  | Calusterone                           |
| 840  | Delta 1-dihydrotestosterone           |
| 841  | Furazabol                             |
| 842  | Hydroxy-Nortestosterone               |
| 843  | Hydroxytestosterone                   |
| 844  | Mestanolone                           |
| 845  | Methyldienolone                       |
| 846  | Methyltrienolone                      |
| 847  | Norandrostenediol                     |
| 848  | Norandrostenedione                    |
| 849  | Norbolethone                          |
| 850  | Norclostebol                          |
| 851  | Normethandrolone                      |
| 852  | Stenbolone                            |
| 853  | Tetrahydrogestrinone                  |
| 854  | Boldione                              |
| 855  | Desoxymethyltestosterone              |
| 856  | Dienedione                            |
| 895  | “Anabolic Steroid, Type Unknown”      |

| Code | Drug                         |
|------|------------------------------|
| 924  | Nitrous Oxide                |
| 925  | Ether                        |
| 926  | Chloroform                   |
| 940  | Aerosols (hydrocarbon gases) |
| 941  | Hair spray                   |
| 942  | Insecticides                 |
| 943  | Glass Chillers               |
| 944  | Frying Pan Lubricants        |
| 945  | Cyclohexl Nitrite            |

| Code | Drug      |
|------|-----------|
| 946  | Enflurane |
| 947  | Halothane |

***095, 996-999 Not Reported/ Other/ Unknown***

| Code | Drug                                                 |
|------|------------------------------------------------------|
| 095  | Not Reported                                         |
| 996  | Other Drug                                           |
| 997  | Tested for Drugs, Results Unknown                    |
| 998  | Tested for Drugs, Drugs Found, Type Unknown/Positive |
| 999  | Reported as Unknown if Tested for Drug               |

| Code | Drug                      |
|------|---------------------------|
| 995  | “Inhalants, Type Unknown” |

## P22/NM22 - Transported to First Medical Facility by

**FORMAT:** 1 numeric

**SAS NAME:** Person.HOSPITAL

**ELEMENT VALUES:**

| Codes | Attributes                                           |
|-------|------------------------------------------------------|
| 0     | <a href="#">Not Transported <i>for Treatment</i></a> |
| 1     | <a href="#">EMS Air</a>                              |
| 5     | <a href="#">EMS Ground</a>                           |
| 3     | <a href="#">EMS Unknown Mode</a>                     |
| 2     | <a href="#">Law Enforcement</a>                      |
| 4     | <a href="#">Transported Unknown Source</a>           |
| 6     | <a href="#">Other</a>                                |
| 8     | <a href="#">Not Reported</a>                         |
| 9     | <a href="#">Reported as Unknown</a>                  |

**Definition:** This element identifies the method of transportation this person was provided to receive treatment or be evaluated for a possible injury at the first hospital or medical facility.

**Remarks:** Medical Facility refers to an injury treatment facility (hospital, clinic, trauma center, etc.). The treatment facility is the first medical facility to which the person is taken. Use appropriate attribute, even if the person dies en route to the treatment facility. A morgue is not an injury treatment facility.

**0 (Not Transported *for Treatment*)** is used for victims who are dead on the scene and for those who are not taken (or do not go) to a treatment facility or hospital for treatment. For example, an uninjured occupant rides along with an injured person to a treatment facility. **0 (Not Transported *for Treatment*)** would be used if the person did not go to a treatment facility directly from the scene but was transported at a later time for injuries sustained in this crash. If the case material states the person was transported but does not specifically state that the transport was from the scene, then consider the person transported directly from the scene of the crash.

If a person is moved from the crash scene by emergency services personnel (EMS, rescue squad, fire department, law enforcement) as part of the transport process, consider the person as transported. For example, an injured person that is driven by emergency services to a location to be air lifted should be coded as **1 (EMS Air)**.

There can also be situations where a person leaves the crash scene (e.g., walks for help) or is moved from a crash scene by a party other than emergency services. For example, in a remote or inaccessible location a private citizen drives an injured person to an accessible location before obtaining help and acquiring emergency services assistance from this new location. Consider these situations as **0 (Not Transported *for Treatment*)** for treatment even if the person was eventually transported for treatment from this new location.

**1 (EMS Air)** includes any air transport device. This code would be used any time air transport was used for this person. For example, if there is an indication that both air and ground transportation were used, code **1 (EMS Air)**.

**5 (EMS Ground)** includes transport by private and county/city-owned ambulance or rescue squad vehicles.

**3 (EMS Unknown Mode)** is used when a person is transported to a treatment facility by EMS, but the mode of transportation is not known.

**2 (Law Enforcement)** includes transport by State, county, or local law enforcement agency vehicles.

**4 (Transported Unknown Source)** is used if you know the person was transported to a treatment facility, but you do not know the source.

**6 (Other)** includes transport by private citizens or individuals who drive themselves to the hospital or treatment facility. May be indicated on your crash report as “POV” (Privately/Personally Owned Vehicle).

If a police crash report data element is coded with the attribute “Other” but the officer does not specify what this refers to:

1. Code **6 (Other)** if the police crash report attribute choices can be matched to or include all the attributes in FARS/CRSS.
2. Code **8 (Not Reported)** if the police crash report choices cannot be matched to or include all the attributes in FARS/CRSS.

**8 (Not Reported)** Check to see if **0 (Not Transported for Treatment)** or **9 (Reported as Unknown)** are more appropriate for the situation.

If a State’s crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered “**Not Reported.**”

Code **8 (Not Reported)** in these two situations:

1. No field or coding block exists on the State’s crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State’s crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State’s crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

**9 (Reported as Unknown)** is used when it is reported as “unknown” whether this victim was taken (or went) to a hospital/treatment facility for treatment or not.

**Consistency Checks [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                 | <b>THEN</b>                                                  |
|-----------------|---------------------------|--------------------------------------------------------------|
| 2U3F            | INJURY SEVERITY equals 3, | TRANSPORTED TO FIRST MEDICAL FACILITY BY should not equal 0. |
| P090            | INJURY SEVERITY equals 0, | TRANSPORTED TO FIRST MEDICAL FACILITY BY must equal 0.       |

**Consistency Checks (FARS Only) [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                                                                           | <b>THEN</b>                                                                                        |
|-----------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| A551            | EMS TIME AT HOSPITAL equals 8888, 9997, 9998,                                       | TRANSPORTED TO FIRST MEDICAL FACILITY BY should not equal 1, 3, 5 for any person.                  |
| P091            | TRANSPORTED TO FIRST MEDICAL FACILITY BY equals 1, 3, 5,                            | EMS TIME AT HOSPITAL should not equal 8888, 9997, 9998.                                            |
| P093            | all persons TRANSPORTED TO FIRST MEDICAL FACILITY BY equals 2, <b>or</b> 6,         | NOTIFICATION TIME EMS, ARRIVAL TIME EMS, EMS TIME AT HOSPITAL must equal 8888.                     |
| P095            | TRANSPORTED TO FIRST MEDICAL FACILITY BY equals 0 for every person in the case,     | EMS TIME AT HOSPITAL must not equal 0000-2399, 9999.                                               |
| P50P            | DIED AT SCENE/EN ROUTE equals 7,                                                    | TRANSPORTED TO FIRST MEDICAL FACILITY BY must equal 0.                                             |
| P51P            | DIED AT SCENE/EN ROUTE equals 8,                                                    | TRANSPORTED TO FIRST MEDICAL FACILITY BY must equal 1-6.                                           |
| P520            | CRASH DATE and DEATH DATE are the same, and CRASH TIME and DEATH TIME are the same, | TRANSPORTED TO FIRST MEDICAL FACILITY BY should equal 0 and DIED AT SCENE/EN ROUTE should equal 7. |
| P52P            | DIED AT SCENE/EN ROUTE equals 9,                                                    | TRANSPORTED TO FIRST MEDICAL FACILITY BY must equal 8 or 9.                                        |
| P55P            | TRANSPORTED TO FIRST MEDICAL FACILITY BY equals 9,                                  | DIED AT SCENE/EN ROUTE must equal 0, 9.                                                            |



## P23/NM23 - Died at Scene/En Route - FARS Only

**FORMAT:** 1 numeric

**SAS NAME:** Person.DOA

**ELEMENT VALUES:**

| Codes | Attributes                     |
|-------|--------------------------------|
| 0     | <a href="#">Not Applicable</a> |
| 7     | <a href="#">Died at Scene</a>  |
| 8     | <a href="#">Died En Route</a>  |
| 9     | <a href="#">Unknown</a>        |

**Definition:** This element identifies if this person died at the scene of the crash or en route to a hospital or treatment facility.

### Remarks:

**0 (Not Applicable)** is used for non-fatalities and victims dying at locations other than the scene or en route (hospital, at home, etc.).

**7 (Died at Scene)** is used for victims who are dead on the scene of the crash.

**8 (Died En Route)** is used for victims who die en route to a hospital or treatment facility by EMS or other transport.

**9 (Unknown)** is used when you know the victim is a fatality, but you don't know if they died at the scene, en route, or at another location (e.g., home).

### Consistency Checks ([See Section 400](#)):

| Error ID | IF                                                                                  | THEN                                                                                               |
|----------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| 1R1P     | If DIED AT SCENE/EN ROUTE equals 7, 8,                                              | INJURY SEVERITY must equal 4.                                                                      |
| P077     | INJURY SEVERITY equals 4, and DIED AT SCENE/EN ROUTE equals 7 or 8,                 | ALCOHOL TEST Subfield 2 - Test Type should not equal 02, 10, or 11.                                |
| P50P     | DIED AT SCENE/EN ROUTE equals 7,                                                    | TRANSPORTED TO FIRST MEDICAL FACILITY BY must equal 0.                                             |
| P510     | EMS TIME AT HOSPITAL equals 8888, 9997, 9998,                                       | DIED AT SCENE/EN ROUTE should not equal 8 for any PERSON.                                          |
| P51P     | DIED AT SCENE/EN ROUTE equals 8,                                                    | TRANSPORTED TO FIRST MEDICAL FACILITY BY must equal 1-6.                                           |
| P520     | CRASH DATE and DEATH DATE are the same, and CRASH TIME and DEATH TIME are the same, | TRANSPORTED TO FIRST MEDICAL FACILITY BY should equal 0 and DIED AT SCENE/EN ROUTE should equal 7. |
| P52P     | DIED AT SCENE/EN ROUTE equals 9,                                                    | TRANSPORTED TO FIRST MEDICAL FACILITY BY must equal 8 or 9.                                        |

| <b>Error ID</b> | <b>IF</b>                                          | <b>THEN</b>                                                  |
|-----------------|----------------------------------------------------|--------------------------------------------------------------|
| P530            | EMS TIME AT HOSPITAL equals 9996,                  | DIED AT SCENE/EN ROUTE must equal 8 for at least one person. |
| P53P            | INJURY SEVERITY equals 0-3, 5, 6,                  | DIED AT SCENE/EN ROUTE must equal 0.                         |
| P54P            | DIED AT SCENE/EN ROUTE equals 8,                   | EMS TIME AT HOSPITAL should not equal 8888, 9997, 9998.      |
| P55P            | TRANSPORTED TO FIRST MEDICAL FACILITY BY equals 9, | DIED AT SCENE/EN ROUTE must equal 0, 9.                      |
| P56P            | DIED AT SCENE/EN ROUTE equals 7,                   | DEATH TIME should be within 30 minutes of the CRASH TIME.    |

## P24/NM24 - Death Date - FARS Only

**FORMAT:** 2 sets of 2 numeric, 1 set of 4 numeric

**SAS NAME:** Person.DEATH\_DA, Person.DEATH\_MO, Person.DEATH\_YR

### ELEMENT VALUES:

#### Month:

| Codes | Attributes                 |
|-------|----------------------------|
| 88    | Not Applicable (Non-fatal) |
| 01-12 | Month of the Year          |
| 99    | Unknown                    |

#### Day:

| Codes | Attributes                 |
|-------|----------------------------|
| 88    | Not Applicable (Non-fatal) |
| 01-31 | Day of the Month           |
| 99    | Unknown                    |

#### Year:

| Codes | Attributes                 |
|-------|----------------------------|
| 8888  | Not Applicable (Non-fatal) |
| --    | Actual Year of Death       |
| 9999  | Unknown                    |

**Definition:** This element records the month, day, and year of this person's death.

**Remarks:** The death must occur within **thirty 24-hour time periods** from time of the crash in order to be an applicable FARS death.

This element, although it contains three pieces of information, should be treated as one element. Therefore, never leave any one portion blank when another is not.

Normally, the medical examiner or coroner is source of data for death date. If there are no data inconsistencies or errors, use the official death date as recorded on the death certificate. Do not change the official death date without good cause.

**Consistency Checks ([See Section 400](#)):**

| <b>Error ID</b> | <b>IF</b>                                                                                           | <b>THEN</b>                                                                                          |
|-----------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| 1U1F            | INJURY SEVERITY equals 4,                                                                           | DEATH DATE must not equal 88888888.                                                                  |
| 1V0P            | DEATH MONTH or DAY equals 88, or DEATH YEAR equals 8888,                                            | all must equal 8s.                                                                                   |
| 2U1F            | INJURY SEVERITY is not equal to 4,                                                                  | DEATH DATE must equal 88888888.                                                                      |
| 2V0P            | DEATH DAY is 01-31, and DEATH MONTH is 01-12,                                                       | DEATH DAY must be a valid day for DEATH MONTH.                                                       |
| 3U1P            | DEATH DATE equals CRASH DATE, and CRASH HOUR is not equal to 99,                                    | DEATH HOUR must not be less than CRASH HOUR.                                                         |
| 3U2P            | DEATH DATE equals CRASH DATE, and DEATH HOUR equals CRASH HOUR and CRASH MINUTE is not equal to 99, | DEATH MINUTE must not be less than CRASH MINUTE.                                                     |
| 4V1F            | INJURY SEVERITY equals 4,                                                                           | DEATH DATE and DEATH TIME for this person must be within 720 hours of the CRASH DATE and CRASH TIME. |
| 4V2F            | CRASH MONTH equals 12, and DEATH MONTH equals 01,                                                   | DEATH YEAR must equal CRASH YEAR plus 1.                                                             |
| 4V3F            | CRASH MONTH equals 12,                                                                              | DEATH MONTH must equal 01, 12, 88, 99.                                                               |
| 4V4F            | CRASH MONTH equals 02-11, and DEATH MONTH is not equal to 88 or 99,                                 | DEATH MONTH must equal CRASH MONTH or CRASH MONTH plus 1.                                            |
| 4V5F            | CRASH MONTH equals 01, and DEATH MONTH is not equal to 88 or 99,                                    | DEATH MONTH must equal CRASH MONTH or CRASH MONTH plus 1 or CRASH MONTH plus 2.                      |
| 4V6P            | DEATH MONTH is not equal to blanks,                                                                 | DEATH DAY and DEATH YEAR must not equal blanks.                                                      |
| 4V7P            | DEATH DAY is not equal to blanks,                                                                   | DEATH MONTH and DEATH YEAR must not equal blanks.                                                    |
| 4V8P            | DEATH YEAR is not equal to blanks,                                                                  | DEATH MONTH and DEATH DAY must not equal blanks.                                                     |
| 6V0P            | DEATH DATE must not be less than CRASH DATE.                                                        | --                                                                                                   |
| 7V0F            | DEATH YEAR equals 9999,                                                                             | CRASH MONTH must not be 01-11.                                                                       |
| 8V0P            | DEATH YEAR equals 9999,                                                                             | DEATH MONTH and DEATH DAY must equal 99.                                                             |
| 9V0P            | DEATH MONTH equals 99,                                                                              | DEATH DAY must equal 99.                                                                             |
| P520            | CRASH DATE and DEATH DATE are the same, and CRASH TIME AND DEATH TIME are the same,                 | TRANSPORTED TO FIRST MEDICAL FACILITY BY should equal 0 and DIED AT SCENE/EN ROUTE should equal 7.   |

## P25/NM25 - Death Time - FARS Only

**FORMAT:** 4 numeric

**SAS NAME:** Person.DEATH\_HR, Person.DEATH\_MN, Person.DEATH\_TM

### ELEMENT VALUES:

| Codes     | Attributes                                     |
|-----------|------------------------------------------------|
| 8888      | Not Applicable (Non-fatal)                     |
| 0000-2359 | Valid Military Time                            |
| 0099-2399 | <a href="#">Known Hour but Unknown Minutes</a> |
| 9999      | <a href="#">Unknown</a>                        |

**Definition:** This element identifies the hour and minute of this person's death using the 24-hour clock format.

**Remarks:** Normally, the medical examiner or coroner is the source of data for death time. If there are no data inconsistencies or errors, use the official death time as recorded on the death certificate. Do not change the official death time without good cause.

If it is known that the person died at the scene and the official death time or "pronounced death time" (on the death certificate) is known to be in error, or is greater than 30 minutes after the CRASH TIME then [CRASH TIME](#) is the appropriate DEATH TIME to be used. If it is known the person died at the scene, and the time of death is pronounced at the scene by a paramedic or firefighter, and this pronounced time does not contradict other case information, use this time.

*See the [Coding Guide: TIME: Crash Times, EMS Times, Death Times](#) for helpful information.*

**0099-2399 (Known Hour but Unknown Minutes)** If minutes are unknown, code the actual hour and "99" for the minutes. One minute after midnight is coded **0001**.

**9999 (Unknown)** If the death certificate indicates the hour of death is unknown or provides a range greater than an hour, enter **9999 (Unknown)**.

### How to Code Midnight:

In general, code midnight as **0000** in military time. Midnight is considered to be the beginning of a new day rather than the end of a day. One minute after midnight is 12:01 and is coded as **0001**. However, there may be confusion over which day the source is referring to when "midnight" is cited or referred to without explanation. Our practice may not be the practice followed in your sources; therefore, you must determine which part of the day is being considered in your sources. The following are examples of midnight time references that do not easily translate to FARS and CRSS times.

- "midnight"
- 12:00-midnight
- 24:00

### End of Day

If your data sources give you a crash date and are consistent in talking about the end of that day, when they give a non-translatable “midnight” time reference of the crash, then you should code Crash Time as **2359**.

### Beginning of Day

If your sources give a crash date and are consistent in referring to the beginning or early moments of that day when they give a non-translatable “midnight” crash time, code “midnight” as **0000**.

### Consistency Checks [\(See Section 400\)](#):

| <b>Error ID</b> | <b>IF</b>                                                                                           | <b>THEN</b>                                                                                          |
|-----------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| 1U2F            | INJURY SEVERITY equals 4,                                                                           | DEATH TIME must not equal 8888.                                                                      |
| 2U2F            | INJURY SEVERITY is not equal to 4,                                                                  | DEATH TIME must equal 8888.                                                                          |
| 3U1P            | DEATH DATE equals CRASH DATE, and CRASH HOUR is not equal to 99,                                    | DEATH HOUR must not be less than CRASH HOUR.                                                         |
| 3U2P            | DEATH DATE equals CRASH DATE, and DEATH HOUR equals CRASH HOUR and CRASH MINUTE is not equal to 99, | DEATH MINUTE must not be less than CRASH MINUTE.                                                     |
| 4V1F            | INJURY SEVERITY equals 4,                                                                           | DEATH DATE and DEATH TIME for this person must be within 720 hours of the CRASH DATE and CRASH TIME. |
| P56P            | DIED AT SCENE/EN ROUTE equals 7,                                                                    | DEATH TIME should be within 30 minutes of the CRASH TIME.                                            |
| P520            | CRASH DATE and DEATH DATE are the same, and CRASH TIME AND DEATH TIME are the same,                 | TRANSPORTED TO FIRST MEDICAL FACILITY BY should equal 0 and DIED AT SCENE/EN ROUTE should equal 7.   |

## P26 - Related Factors - Person (Motor Vehicle Occupant) Level

**FORMAT:** 3 numeric. *Select All That Apply.*

**SASs NAME:** *PersonRF.PERSONRF*

**ELEMENT VALUES:**

| Codes | Attributes                                                                                                               |
|-------|--------------------------------------------------------------------------------------------------------------------------|
| 000   | <a href="#">None</a>                                                                                                     |
| 005   | <a href="#">Interfering with Driver</a>                                                                                  |
| *008  | <a href="#">Mentally Challenged</a>                                                                                      |
| 009   | <a href="#">Construction/Maintenance/Utility Worker</a>                                                                  |
| 010   | <a href="#">Alcohol and/or Drug Test Refused</a>                                                                         |
| *018  | <a href="#">Mother of Dead Fetus/Mother of Infant Born Post Crash</a>                                                    |
| 021   | <a href="#">Overloading or Improper Loading of Vehicle with Passengers or Cargo</a>                                      |
| *026  | <a href="#">Following Improperly</a>                                                                                     |
| 089   | <a href="#">Parked Motor Vehicle with Equipment Extending into the Travel Lane</a>                                       |
| *028  | <a href="#">Improper Lane Usage</a>                                                                                      |
| *029  | <a href="#">Intentional Illegal Driving on Road Shoulder, in Ditch, on Sidewalk or on Median</a>                         |
| 032   | <a href="#">Opening Vehicle Closure into Moving Traffic or While Vehicle is in Motion</a>                                |
| *033  | <a href="#">Passing Where Prohibited by Posted Signs, Pavement Markings or School Bus Displaying Warning Not to Pass</a> |
| *037  | <a href="#">Traveling on Prohibited Trafficways</a>                                                                      |
| *040  | <a href="#">Passing Through or Around Barrier</a>                                                                        |
| *041  | <a href="#">Failure to Observe Warnings or Instructions on Vehicles Displaying Them</a>                                  |
| *042  | <a href="#">Failure to Signal Intentions</a>                                                                             |
| *044  | <a href="#">Driving Too Fast for Conditions or in Excess of Posted Maximum</a>                                           |
| *045  | <a href="#">Driving Less Than Posted Minimum</a>                                                                         |
| *047  | <a href="#">Making Right Turn from Left-Turn Lane, Left Turn from Right-Turn Lane</a>                                    |
| *051  | <a href="#">Operator Inexperience</a>                                                                                    |
| *052  | <a href="#">Unfamiliar with Roadway</a>                                                                                  |
| 056   | <a href="#">Non-Driver Flees Scene</a>                                                                                   |
| *057  | <a href="#">Improper Tire Pressure</a>                                                                                   |
| *059  | <a href="#">Overcorrecting</a>                                                                                           |

**Vision Obscured by:**

| <b>Codes</b> | <b>Attributes</b>                                                                           |
|--------------|---------------------------------------------------------------------------------------------|
| *060         | <a href="#">Rain, Snow, Fog, Smoke, Sand, Dust</a>                                          |
| *061         | <a href="#">Reflected Glare, Bright Sunlight, Headlights</a>                                |
| *062         | <a href="#">Curve, Hill, or Other Design Features (including traffic signs, embankment)</a> |
| *063         | <a href="#">Building, Billboard, Other Structures</a>                                       |
| *064         | <a href="#">Trees, Crops, Vegetation</a>                                                    |
| *065         | <a href="#">Motor Vehicle (including load)</a>                                              |
| *066         | <a href="#">Parked Vehicle</a>                                                              |
| *067         | <a href="#">Splash or Spray of Passing Vehicle</a>                                          |
| *068         | <a href="#">Inadequate Lighting System</a>                                                  |
| *069         | <a href="#">Obstructing Angles on Vehicle</a>                                               |
| *070         | <a href="#">Mirrors</a>                                                                     |
| *072         | <a href="#">Other Visual Obstruction</a>                                                    |

**Skidding, Swerving Sliding, Due to:**

| <b>Codes</b> | <b>Attributes</b>                                                            |
|--------------|------------------------------------------------------------------------------|
| *073         | <a href="#">Severe Crosswind</a>                                             |
| *074         | <a href="#">Wind from Passing Truck</a>                                      |
| *075         | <a href="#">Slippery or Loose Surface</a>                                    |
| *076         | <a href="#">Tire Blowout or Flat</a>                                         |
| *077         | <a href="#">Debris or Objects in Road</a>                                    |
| *078         | <a href="#">Ruts, Holes, Bumps in Road</a>                                   |
| *080         | <a href="#">Vehicle in Road</a>                                              |
| *081         | <a href="#">Phantom Vehicle</a>                                              |
| *082         | <a href="#">Pedestrian, Pedal Cyclists, or Other Non-Motorist</a>            |
| *083         | <a href="#">Ice, Snow, Slush, Water, Sand, Dirt, Oil, Wet Leaves on Road</a> |

**Other Factors:**

| <b>Codes</b> | <b>Attributes</b>                                         |
|--------------|-----------------------------------------------------------|
| 087          | <a href="#">Police or Law Enforcement Officer</a>         |
| 092          | <a href="#">Person in Ambulance Treatment Compartment</a> |
| 094          | <a href="#">Emergency Medical Services Personnel</a>      |



| Codes | Attributes                                                                                        |
|-------|---------------------------------------------------------------------------------------------------|
| 095   | <a href="#">Fire Personnel</a>                                                                    |
| 096   | <a href="#">Tow Operator</a>                                                                      |
| 097   | <a href="#">Transportation</a> (i.e., maintenance workers, safety service patrol operators, etc.) |
| *088  | <a href="#">Seat Back Not in Normal Upright Position, Seat Back Reclined</a>                      |
| 091   | <a href="#">Portable Electronic Devices</a>                                                       |
| 999   | <a href="#">Reported as Unknown</a>                                                               |

### \*FARS ONLY ATTRIBUTES

**Definition:** This element identifies factors related to motor vehicle occupants (other than drivers) expressed in the case material.

**Remarks:** Code information provided in the case material associated with this person.

In addition to passengers in motor vehicles in-transport ([UNIT TYPE](#) 1), this element includes any occupants in motor vehicles that are not in-transport (UNIT TYPES 2, 3, 4). The attributes that are applicable to each is limited by [PERSON TYPE](#).

The following lists those related factors that may be used for each [PERSON TYPE](#):

| Person Type                                                                | Valid Related Factors                                                                                                                 |
|----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">01 (Driver of a Motor Vehicle In-Transport)</a>                | 000                                                                                                                                   |
| <a href="#">02 (Passenger of a Motor Vehicle In-Transport)</a>             | 000, 005, 008, 009, 010, 018, 032, 056, 087-999                                                                                       |
| <a href="#">03 (Occupant of a Motor Vehicle Not In-Transport)</a>          | 000, 005, 008, 009, 010, 018, 021, 026, 028, 029, 032, 033, 037, 040-042, 044, 045, 047, 051, 052, 056-070, 072-078, 080-083, 087-999 |
| <a href="#">09 (Unknown Occupant Type in a Motor Vehicle In-Transport)</a> | 000, 005, 008, 009, 010, 018, 032, 087-999                                                                                            |

For forms with [PERSON TYPE](#) **01 (Driver of a Motor Vehicle In-Transport)**, use [000 \(None\)](#). The related factors for drivers are captured in the [RELATED FACTORS-DRIVER LEVEL](#).

**000 (None)** is used when no applicable related factors are noted in the case material *or this person is a PERSON TYPE [01 \(Driver of a Motor Vehicle In-Transport\)](#)*.

**005 (Interfering with Driver)** is used when the case material identifies that the occupant of a motor vehicle in-transport was interfering with the driver.

**Examples include:**

- Obstructing the driver's view.
- Striking the driver with their body or an object.
- Rambunctious individuals who cause the driver to be inattentive, even without touching the driver or controls in the vehicle.
- A motorcycle passenger (or other cyclist) shifting weight or affecting the driver's control.

**\*008 (Mentally Challenged)** is used when the case material identifies *this person has an intellectual, cognitive, or developmental disability*.

**009 (Construction/Maintenance/Utility Worker)** is used if the case material identifies this person was an occupant of a working motor vehicle. This includes highway department, contractor, or utility company personnel.

**010 (Alcohol and/or Drug Test Refused)** is used when the officer notes that this person refused to take an alcohol and/or a drug test. Refusing a test does not necessarily mean that a test was not given. It is possible that after a refusal, the officer may have obtained a warrant or some other authorization to administer a test post-refusal. This includes when the person initially refuses and later consents. Because of this, it is possible to code **010 (Alcohol and/or Drug Test Refused)** and also code an actual test with results for the same person.

**\*018 (Mother of Dead Fetus/Mother of Infant Born Post-Crash)** is used when the case material identifies that this occupant is the mother of a fetus that died in or as a result of this crash or it is identified that this occupant gave birth after the crash whether the child survives or not. Note that for crash classification purposes, a fetus is considered to be part of a pregnant woman rather than a separate individual and, thus, is not counted as a separate occupant in the crash.

**021 (Overloading or Improper Loading of Vehicle with Passengers or Cargo)** is used when the case material identifies this occupant improperly loaded the vehicle occupants or cargo into or on the vehicle. This may only be used on the PERSON TYPE **03 (Occupant of a Motor Vehicle Not In-Transport)** and in SEATING POSITION

**11 (Front Seat, Left Side)**.

**Examples include:**

- The vehicle had more than 3 passengers in the front seat.
- There were people riding on the exterior of the vehicle.
- The vehicle was carrying occupants who were sitting or standing on the rails, tailgate of a pickup, or improperly sitting in the bed of a pickup.
- More than one person secured in a belt restraint.

- An unsecured or uncovered load violation.
- The vehicle's trunk was open with extra-large cargo protruding.
- The case material states the vehicle was overweight, over length or illegally or improperly oversize.

**\*026 (Following Improperly)** is used when the case material identifies this occupant followed too closely. This may only be used on the Person Form for the occupant that is PERSON TYPE [03 \(Occupant of a Motor Vehicle Not In-Transport\)](#) and in SEATING POSITION [11 \(Front Seat, Left Side\)](#) in a working motor vehicle ([UNIT TYPE 4](#)).

**Examples include:**

- Following a fire truck too closely.
- Failure to maintain a safe passing distance between trucks.
- Following another vehicle in a caravan too closely to allow entry by a merging vehicle.
- Following too close, generally. Also, code for cases where the case material document the vehicle was following too closely for weather conditions.

**089 (Parked Motor Vehicle with Equipment Extending into the Travel Lane)** is used when the case material identifies this occupant parked a vehicle but extended equipment (e.g., extended mirrors) attached to the vehicle was still in the travel lane. This may only be used on the Person Form for the occupant that is PERSON TYPE [03 \(Occupant of a Motor Vehicle Not In-Transport\)](#) and in SEATING POSITION [11 \(Front Seat, Left Side\)](#).

**NOTE:** This should not be used for loads of vehicles extending into the travel lane such as attached trailers or oversized cargo. In these cases, the vehicle is in-transport and not parked.

**\*028 (Improper Lane Usage)** is used when the case material identifies this occupant failed to properly keep their vehicle in the appropriate lane of travel. This attribute does not apply to vehicles that run off the roadway, that cross the median, *or exhibit control loss before crossing the centerline*. Also do not use this value for a vehicle that leaves its lane because of a previous impact or at the direction of a flagman or police officer. This may only be used on the Person Form for the occupant that is PERSON TYPE [03 \(Occupant of a Motor Vehicle Not In-Transport\)](#) and in SEATING POSITION [11 \(Front Seat, Left Side\)](#) in a working motor vehicle ([UNIT TYPE 4](#)).

**Examples include:**

- A vehicle that “drove left of center” striking an oncoming vehicle (includes both crossing a painted centerline and failing to maintain the proper side of a two-lane roadway with no painted centerline).
- A vehicle that goes straight in a turn lane.
- A vehicle that was using more than one lane on its side of a multi-lane highway.
- Trucks, buses, or slow vehicles failing to keep right for faster moving traffic.

For situations where the vehicle is on the wrong side as a result of a passing maneuver, see [033 \(Passing Where Prohibited by Posted Signs, Pavement Markings, or School Bus Displaying Warning Not to Pass\)](#).

**\*029 (Intentional Illegal Driving on Road Shoulder, In Ditch, on Sidewalk or on Median)** is used when the case material identifies this occupant was **intentionally** illegally driving in a location off the roadway (e.g., shoulder, median, roadside, etc.) This attribute should not be used when the vehicle enters one of these locations as part of an avoidance maneuver or as a result of a critical or harmful event. Also do not use this value for a vehicle that leaves its lane at the direction of a flagman or police officer. This may only be used on the Person Form for the occupant that is PERSON TYPE [03 \(Occupant of a Motor Vehicle Not In-Transport\)](#) and in SEATING POSITION [11 \(Front Seat, Left Side\)](#) in a working motor vehicle ([UNIT TYPE 4](#)).

**032 (Opening Vehicle Closure into Moving Traffic or While Vehicle is in Motion)** is used when the case material identifies this occupant improperly opened their door into moving traffic.

**Examples include:**

- An occupant opens a side door into moving traffic.
- An occupant opening the door at a stop light.
- An occupant of a parked motor vehicle opening a door into the travel lane.

**\*033 (Passing Where Prohibited by Posted Signs, Pavement Markings, or School Bus Displaying Warning Not to Pass)** is used when the case material identifies this occupant passed improperly by executing a passing maneuver where prohibited as designated by traffic controls or rules of the road. This may only be used on the Person Form for the occupant that is PERSON TYPE [03 \(Occupant of a Motor Vehicle Not In-Transport\)](#) and in SEATING POSITION [11 \(Front Seat, Left Side\)](#) in a working motor vehicle ([UNIT TYPE 4](#)).

**Examples include:**

- A vehicle passing stopped a school bus.
- A vehicle crossing over the solid line to pass another vehicle.
- Passing a vehicle stopped to allow a pedestrian movement.

**\*037 (Traveling on Prohibited Trafficways)** is used when the case material identifies this occupant was driving on an open trafficway that prohibited travel for the kind of vehicle they were operating. For example, driving a truck where prohibited, or operating a vehicle with hazardous materials cargo where prohibited. For trucks or slower vehicles using the left lane when prohibited, use [028 \(Improper Lane Usage\)](#). This may only be used on the Person Form for the occupant that is PERSON TYPE [03 \(Occupant of a Motor Vehicle Not In-Transport\)](#) and in SEATING POSITION [11 \(Front Seat, Left Side\)](#) in a working motor vehicle ([UNIT TYPE 4](#)).

**\*040 (Passing Through or Around Barrier)** is used when the case material identifies this occupant drove out of or around a “demarcated” area. This may only be used on the Person Form for the occupant that is PERSON TYPE [03 \(Occupant of a Motor Vehicle Not In-Transport\)](#) and in SEATING POSITION [11 \(Front Seat, Left Side\)](#) in a working motor vehicle ([UNIT TYPE 4](#)). For example, a working vehicle backing out of the closed portion of the work zone into an open travel lane.

**\*041 (Failure to Observe Warnings or Instructions on Vehicles Displaying Them)** is used when the case material identifies this occupant failed to heed warnings or follow instructions displayed on other vehicles. This may only be used on the Person Form for the occupant that is PERSON TYPE [03 \(Occupant of a Motor Vehicle Not In-Transport\)](#) and in SEATING POSITION [11 \(Front Seat, Left Side\)](#) in a working motor vehicle ([UNIT TYPE 4](#)).

Examples include:

- Construction instructions such as arrows directing traffic mounted on a vehicle.
- Instructions on or warnings by emergency vehicles (ambulances, fire trucks, police cars).
- Failure to observe a wide right-turn warning on trucks or buses.
- Failure to heed hazard lights on a disabled vehicle or a school bus arm.

**\*042 (Failure to Signal Intentions)** is used when the case material identifies this occupant failed to signal their intentions. This attribute includes a failure to signal by either lamp turn signal or hand. This may only be used on the Person Form for the occupant that is PERSON TYPE [03 \(Occupant of a Motor Vehicle Not In-Transport\)](#) and in SEATING POSITION [11 \(Front Seat, Left Side\)](#) in a working motor vehicle ([UNIT TYPE 4](#)).

**\*044 (Driving Too Fast for Conditions or In Excess of Posted Maximum)** is used when the case material identifies this occupant was operating the vehicle too fast for certain road conditions or exceeding the posted speed limit. This may only be used on the Person Form for the occupant that is PERSON TYPE [03 \(Occupant of a Motor Vehicle Not In-Transport\)](#) and in SEATING POSITION [11 \(Front Seat, Left Side\)](#) in a working motor vehicle ([UNIT TYPE 4](#)).

**\*045 (Driving Less Than Posted Minimum)** is used when the case material identifies this occupant was driving too slowly, or so as to impede traffic. This may only be used on the Person Form for the occupant that is PERSON TYPE [03 \(Occupant of a Motor Vehicle Not In-Transport\)](#) and in SEATING POSITION [11 \(Front Seat, Left Side\)](#) in a working motor vehicle ([UNIT TYPE 4](#)).

**\*047 (Making Right Turn from Left-Turn Lane, Left Turn from Right-Turn Lane)** is used when the case material identifies this occupant was making an improper turn from a turn lane. To distinguish from [028 \(Improper Lane Usage\)](#), police officer must indicate the occupant's intention to turn to use this attribute. This may only be used on the Person Form for the occupant that is PERSON TYPE [03 \(Occupant of a Motor Vehicle Not In-Transport\)](#) and in SEATING POSITION [11 \(Front Seat, Left Side\)](#) in a working motor vehicle ([UNIT TYPE 4](#)).

**\*051 (Operator Inexperience)** is used when the case material identifies this occupant lacks experience operating the vehicle they were in at the time of the crash. Should be expressed by officer, **operator**, or passenger and not presumed based on age, rental status, or State of residence. This may only be used on the Person Form for the occupant that is PERSON TYPE [03 \(Occupant of a Motor Vehicle Not In-Transport\)](#) and in SEATING POSITION [11 \(Front Seat, Left Side\)](#) in a working motor vehicle ([UNIT TYPE 4](#)).

Examples include:

- A **novice operator**.
- The **operator** parks the vehicle where parking is illegal because they are inexperienced.

**\*052 (Unfamiliar with Roadway)** is used when the case material identifies this occupant is unfamiliar with the area/location where they were when the crash occurred. Should be expressed by officer, **operator**, or passenger and not presumed based on age, rental status, or State of residence. This may only be used on the Person Form for the occupant that is PERSON TYPE [03 \(Occupant of a Motor Vehicle Not In-Transport\)](#) and in SEATING POSITION [11 \(Front Seat, Left Side\)](#) in a working motor vehicle ([UNIT TYPE 4](#)).

**Examples include:**

- An **operator** from out-of-State is unfamiliar with area.
- Operating on a new stretch of road or section of road altered because of construction and/or detour.
- The **operator** parks the vehicle where parking is illegal because they are unfamiliar with the location.

**\*056 (Non-Driver Flees Scene)** is used when the case material identifies that this non-**operator** left the scene of a Hit-and-Run crash.

**Examples include:**

- A passenger of motor vehicle *fled* scene on foot.
- Occupant of an involved parked vehicle leaves by driving their vehicle from the scene.
- An involved motor vehicle in-transport is driven away by a passenger in that vehicle.

**\*057 (Improper Tire Pressure)** is used when the case material identifies that improper tire pressure was present in one or more tires of this vehicle. Improper tire pressure is not a defect, but rather the irresponsibility of the person. This may only be used on the Person Form for the occupant that is PERSON TYPE [03 \(Occupant of a Motor Vehicle Not In-Transport\)](#) and in SEATING POSITION [11 \(Front Seat, Left Side\)](#) in a working motor vehicle ([UNIT TYPE 4](#)).

**\*059 (Overcorrecting)** is used when the case material identifies this occupant “overcorrected” based on the judgment of the police officer. This must be stated by the officer in the narrative or police crash report field to be coded. Overcorrecting and Oversteering are technically different, but this attribute may be selected for a reported combination of the two (e.g., overcorrecting/ oversteering) on the police crash report. This may only be used on the Person Form for the occupant that is PERSON TYPE [03 \(Occupant of a Motor Vehicle Not In-Transport\)](#) and in SEATING POSITION [11 \(Front Seat, Left Side\)](#) in a working motor vehicle ([UNIT TYPE 4](#)).

**Vision Obscured By:**

The following set of attributes identifies visual obstructions noted in the case material. These attributes **are only applicable to** the occupant that is PERSON TYPE [03 \(Occupant of a Motor Vehicle Not In-Transport\)](#) and in SEATING POSITION [11 \(Front Seat, Left Side\)](#) in a working motor vehicle ([UNIT TYPE 4](#)).

**\*060 (Rain, Snow, Fog, Smoke, Sand, Dust)**

**\*061 (Reflected Glare, Bright Sunlight, Headlights)**

**\*062 (Curve, Hill, or Other Design Features [including traffic signs, embankment])**

**\*063 (Building, Billboard or Other Structures)**

**\*064 (Trees, Crops or Vegetation)**

**\*065 (Motor Vehicle [including load])**

**Examples include:**

- A car stopped on the roadway.
- A tractor-trailer in-transport on the road.
- A school bus stopped for the purpose of loading and/or unloading children.

**\*066 (Parked Vehicle)**

**\*067 (Splash or Spray of a Passing Vehicle)**

**\*068 (Inadequate Lighting System)**

**\*069 (Obstructing Angles on the Vehicle)** is used when the case material identifies obstructing angles on this person's vehicle. This attribute should not be confused with visual obstructions from other vehicles. (See [065 \(Motor Vehicle \[including load\]\)](#) and **066 (Parked Vehicle)**).

**\*070 (Mirrors)** is used when the case material identifies that vision was obscured by any mirrors attached to or within a motor vehicle (rear view mirror, side mirror, etc.).

**\*072 (Other Visual Obstruction)** is used when the case material identifies that vision was obscured something other than previously listed. For example, a trailer that has been left parked on the side of the road by a truck or vehicle.

### ***Skidding, Swerving, Sliding Due To:***

This set of attributes is applicable to the occupant that attempted to avoid **and/or** whose ability to control the vehicle was affected by one of the ***following—and resulted in that vehicle skidding, swerving, or sliding***. These attributes ***are only applicable to*** the occupant that is PERSON TYPE [03 \(Occupant of a Motor Vehicle Not In-Transport\)](#) and in SEATING POSITION [11 \(Front Seat, Left Side\)](#) in a working motor vehicle ([UNIT TYPE 4](#)).

**\*073 (Severe Crosswind)** is used when the case material identifies this occupant's ability to control the vehicle was affected by severe crosswinds.

**\*074 (Wind from Passing Truck)** is used when the case material identifies this occupant's ability to control the vehicle was affected by winds produced by a passing truck.

**\*075 (Slippery or Loose Surface)** is used when the case material identifies this occupant's ability to control the vehicle was affected by the surface composition of the roadway and/or the condition of that composition. Not to be used when the surface is slippery due to environment conditions such as rain, ice, or snow (see [083 \(Ice, Snow, Slush, Water, Sand, Dirt, Oil, Wet Leaves on Road\)](#)).

**Examples include:**

- A slippery surface that is old or worn resulting in loose gravel on the roadway.
- Blacktop that is slick as a newly paved surface.

**\*076 (Tire Blowout or Flat)** is used when the case material identifies this occupant's ability to control the vehicle was affected by a tire blowout or flat.



**\*077 (Debris or Objects in Road)** is used when the case material identifies this **operator** attempted to avoid or lost control as a result of debris in the road. Examples would include nails, glass, trash cans, tire retread, trash, dead animals, pile of sand, barricades, etc.

**\*078 (Ruts, Holes, Bumps in Road)** is used when the case material identifies this **operator** attempted to avoid or lost control as a result of a road surface anomalies such as ruts, holes, dips, or bumps.

**\*080 (Vehicle in Road)** is used when the case material identifies this **operator** attempted to avoid or lost control as a result of another vehicle in the road. This includes both contact and non-contact vehicles that **remain at the scene**.

**\*081 (Phantom Vehicle)** is used when the case material identifies this **operator** attempted to avoid or lost control as a result of a non-contact vehicle that **left the scene** as described by the police officer.

**\*082 (Pedestrian, Pedal Cyclist, or Other Non-Motorist)** is used when the case material identifies this **operator** attempted to avoid or lost control as a result of a pedestrian, a pedalcyclist, or other type of non-motorist.

**\*083 (Ice, Snow, Slush, Water, Sand, Dirt, Oil, or Wet Leaves on Road)** is used when the case material identifies this occupant's ability to control the vehicle was affected by a substance on the roadway that caused the roadway to be slick, which may interfere with the traction of the vehicle. This attribute does not include part of the roadway composition. For cases involving roadway composition issues, see [075 \(Slippery or Loose Surface\)](#).

#### **Other Factors:**

**087 (Police or Law Enforcement Officer)** is used when the case material identifies that this person was a police or law enforcement officer working at the time of the crash. The officer may be affiliated at the Federal, State, or local law enforcement level. This would also include military and park police, border patrol, and all other sworn law enforcement officers.

**092 (Person in Ambulance Treatment Compartment)** is used when the case material identifies that this occupant was located in the ambulance treatment compartment. For example: patients, EMS personnel, and other person accompanying patient.

**Note:** For people identifiable as EMS personnel also use RELATED FACTORS - PERSON (MV OCCUPANT) attribute [094 \(Emergency Medical Services Personnel\)](#).

**094 (Emergency Medical Services Personnel)** is used when the case material identifies that this person was described as emergency medical services (EMS) personnel. This includes personnel located in the cab and in the treatment compartment of an ambulance.

**Note:** For people identifiable as EMS personnel located in the ambulance treatment compartment, also use RELATED FACTORS - PERSON (MV OCCUPANT) attribute [092 \(Person in Ambulance Treatment Compartment\)](#).

**095 (Fire Personnel)** is used when the case material identifies that this person was fire personnel.

**096 (Tow Operator)** is used when the case material identifies that this person was an operator of a tow truck.

**097 (Transportation (i.e., maintenance workers, safety service patrol operators, etc.))** is used when the case material indicate this person was working to assist with detouring traffic, maintaining roadway damage, or a safety service patrol operator, etc.



**\*088 (Seat Back Not in Normal Upright Position, Seat Back Reclined)** is used when the case material identifies that this occupant's seat back was not in a normal, safe driving/seating position prior to the crash.

**091 (Portable Electronic Devices)** is used when the case material identifies that this occupant had an electronic device (mobile phone, MP3 player, PDA, etc.) in the vehicle that was somehow related to the crash occurrence.

**999 (Reported as Unknown)** is used when the circumstances surrounding the crash are unknown and reported as "unknown" by the investigating officer.

#### **\*FARS ONLY ATTRIBUTES**

#### **Consistency Checks [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                         | <b>THEN</b>                                                                                              |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| 1W0P            | Any RELATED FACTORS-PERSON LEVEL equals <b>000 or 999</b> ,                                                                                                                                                                                                                       | <b><i>only that one code and no other must be coded.</i></b>                                             |
| 3D80            | <b><i>CRITICAL EVENT: PRECRASH (EVENT) equals 08 for this vehicle, and CONDITION (IMPAIRMENT) AT TIME OF CRASH equals 09 for this vehicle's driver, and RELATED FACTORS - PERSON (MV OCCUPANT) LEVEL for this vehicle is not equal 005 for any occupants of this vehicle,</i></b> | <b><i>another CONDITION (IMPAIRMENT) AT TIME OF CRASH for this vehicle's driver should equal 01.</i></b> |
| 4W0P            | Any RELATED FACTORS-PERSON LEVEL (MV Occupant) can be used only once per person form.                                                                                                                                                                                             | --                                                                                                       |
| 4W6P            | Any RELATED FACTORS-PERSON LEVEL (MV Occupant) equals <b>021 or 089</b> ,                                                                                                                                                                                                         | PERSON TYPE must equal 3, SEATING POSITION must equal 11, and UNIT TYPE must equal 2, 3, or 4.           |
| 580F            | FIRST HARMFUL EVENT equals 14, and RELATED FACTORS- PERSON (MV OCCUPANT) LEVEL does not equal <b>032, 089</b> for at least one occupant in the not in-transport motor vehicle involved in the FIRST HARMFUL EVENT,                                                                | RELATION TO TRAFFICWAY should not equal 01.                                                              |
| 5M0F            | PERSON TYPE equals 01,                                                                                                                                                                                                                                                            | RELATED FACTORS-PERSON LEVEL (MV Occupant) must equal <b>000</b> .                                       |
| 5M0G            | SPECIAL USE equals 06, and PERSON TYPE equals 02 or 09,                                                                                                                                                                                                                           | RELATED FACTORS-PERSON (MV OCCUPANT) LEVEL should equal <b>092, 094, or 095</b> .                        |
| 5M2G            | <b><i>SPECIAL USE equals 06, and PERSON TYPE equals 02, and SEATING POSITION equals 51,</i></b>                                                                                                                                                                                   | <b><i>at least one RELATED FACTORS - PERSON LEVEL should equal 092 or 094.</i></b>                       |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                    | <b>THEN</b>                                                                                                                                                 |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>5M3G</b>     | <b><i>SPECIAL USE equals 06, and PERSON TYPE equals 01 or 02, and SEATING POSITION equals 11-19,</i></b>                                                                     | <b><i>at least one RELATED FACTORS - PERSON LEVEL should equal 094, or at least one RELATED FACTORS - DRIVER LEVEL should equal 094.</i></b>                |
| 5N0F            | PERSON TYPE equals 02,                                                                                                                                                       | any RELATED FACTORS-PERSON LEVEL (MV Occupant) must not equal 021, 026, 028, 029, 033, 037, 040-042, 044, 045, 047, 051, 052, 057-070, 072-078, or 080-083. |
| 7M0F            | any RELATED FACTORS-PERSON LEVEL (MV Occupant) equals 026, 028, 029, 033, 037, 040-042, 044, 045, 047, 051, 052, 057-070, 072-078, or 080-083,                               | PERSON TYPE must equal 03, SEATING POSITION must equal 11, and UNIT TYPE must equal 4.                                                                      |
| A65F            | FIRST HARMFUL EVENT equals 14, and RELATED FACTORS - PERSON (MV OCCUPANT) LEVEL equals 032 or 089 for an occupant of the parked vehicle involved in the first harmful event, | CRASH TYPE should equal 15, 92 or 98 for the in-transport vehicle involved in the First Harmful Event.                                                      |
| A66F            | FIRST HARMFUL EVENT equals 14, and CRASH TYPE equals 01-10 or 14,                                                                                                            | RELATED FACTORS - PERSON (MV OCCUPANT) LEVEL must not equal 032 or 089 for any occupant of the parked vehicle involved in the FIRST HARMFUL EVENT.          |
| CL0P            | PERSON TYPE equals 09,                                                                                                                                                       | any RELATED FACTORS-PERSON LEVEL (MV OCCUPANT) must not equal 021, 026, 028, 029, 033, 037, 040-042, 044, 045, 047, 051, 052, 056-070, 072-078, 080-083.    |

**Consistency Check (FARS Only) [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                                | <b>THEN</b>                                         |
|-----------------|------------------------------------------|-----------------------------------------------------|
| 5W0P            | RELATED FACTORS-PERSON LEVEL equals 018, | SEX must equal 2, and AGE must be greater than 012. |

## **Person Level (Not A Motor Vehicle Occupant) Data Elements**

[NM1 - State Number - FARS Only](#)

[NM2 - Consecutive Number - FARS Only](#)

[NM3/P4 - Person Number](#)

[NM4 - Vehicle Number of Motor Vehicle Striking Non-Motorist](#)

[NM5/P5 - Age](#)

[NM6/P6 - Sex](#)

[NM7 - Person Type](#)

[NM8/P8 - Injury Severity](#)

[NM9 - Pedestrian/Bike Typing](#)

[NM10 - Non-Motorist Location at Time of Crash](#)

[NM11 - Non-Motorist Action/Circumstances](#)

[NM12 - Non-Motorist Contributing Circumstances](#)

[NM13 - Non-Motorist Distracted By](#)

[NM14 - Non-Motorist Safety Equipment](#)

[NM15/D23 - Condition \(Impairment\) at Time of Crash](#)

[NM16/P16 - Police Reported Alcohol Involvement](#)

[NM17/P17 - Method of Alcohol Determination by Police - FARS Only](#)

[NM18/P18 - Alcohol Test](#)

[NM19/P19 - Police Reported Drug Involvement](#)

[NM20/P20 - Method of Drug Determination by Police - FARS Only](#)

[NM21/P21 - Drug Toxicology Results - FARS Only](#)

[NM22/P22 - Transported to First Medical Facility By](#)

[NM23/P23 - Died at Scene / En Route - FARS Only](#)

[NM24/P24 - Death Date - FARS Only](#)

[NM25/P25 - Death Time - FARS Only](#)

[NM26 - Related Factors - Person \(Not a Motor Vehicle Occupant\) Level](#)

### NM3/P4 - Person Number

**FORMAT:** 3 numeric

**SAS NAME:** Person.PER\_NO

#### ELEMENT VALUES:

| Codes   | Attributes      |
|---------|-----------------|
| 001-999 | Assigned Number |

**Definition:** This element identifies a number for people that are not in a motor vehicle in consecutive order.

**Remarks:** This element's values and remarks are identical to the Person Level (MV Occupant) Level element PERSON NUMBER. Please see [PERSON NUMBER](#) for remarks.

#### Consistency Checks ([See Section 400](#)):

| Error ID | Error Message                                                                                              |
|----------|------------------------------------------------------------------------------------------------------------|
| CSI6     | For each VEHICLE NUMBER, PERSON NUMBERS must be consecutive, beginning with 001 and with no gaps.          |
| CSI7     | PERSON NUMBERS for persons not in motor vehicles must be consecutive, beginning with 001 and with no gaps. |

## NM4 - Vehicle Number of Motor Vehicle Striking Non-Motorist

**FORMAT:** 3 numeric

**SAS NAME:** Person.STR\_VEH

**ELEMENT VALUES:**

| Codes   | Attributes              |
|---------|-------------------------|
| 001-998 | Assigned Vehicle Number |

**Definition:** This data element captures the in-transport vehicle that made contact with this non-motorist.

**Remarks:** *If* a non-motorist is contacted by a parked or working motor vehicle that was propelled by an in-transport vehicle, record the vehicle number of the in-transport vehicle.

In cases where more than one vehicle makes contact with a non-occupant, code the number of the vehicle that caused the most significant injury. If uncertain, code the number of the vehicle that made contact first.

If a non-motorist is hit as a result of a vehicle to vehicle collision and you cannot reasonably determine which vehicle struck the non-motorist, use the lowest vehicle number of the MVIT(s) involved in the vehicle to vehicle event that resulted in the pedestrian or pedalcyclist collision. In the element

[\*\*RELATED FACTORS - PERSON \(NOT A MOTOR VEHICLE OCCUPANT\) LEVEL\*\*](#) code [\*\*031\*\*](#)  
[\*\*Default Code Used for Vehicle Numbering.\*\*](#)

**Consistency Checks** [\*\(See Section 400\)\*](#):

| Error ID | IF                                                                                           | THEN                                                                                                                                                               |
|----------|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 050P     | PERSON TYPE equals 04-07, 10-19, and NUMBER OF VEHICLE FORMS SUBMITTED equals 001,           | VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST must equal 001.                                                                                              |
| 060P     | VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is not equal to 000,                   | the VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST must equal some VEHICLE NUMBER in the case, and the UNIT TYPE must equal 1.                              |
| 4X8H     | any NON-MOTORIST CONTRIBUTING CIRCUMSTANCES equals 01,                                       | DRIVER'S VISION OBSCURED BY must not equal 00, 95, or 99 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST. |
| A612     | PERSON TYPE equals 04, and VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST equals____, | at least one SEQUENCE OF EVENTS must equal 10, 49, or 74 for that vehicle number in the CRASH EVENTS table.                                                        |
| A613     | PERSON TYPE equals 05, and VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST equals____, | at least one SEQUENCE OF EVENTS must equal 08 for that vehicle number in the CRASH EVENTS table.                                                                   |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                         | <b>THEN</b>                                                                                      |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| A614            | PERSON TYPE equals 06, and VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST equals____,                                                                                                                                                      | at least one SEQUENCE OF EVENTS must equal 09 for that vehicle number in the CRASH EVENTS table. |
| A615            | PERSON TYPE equals 07, and VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST equals____,                                                                                                                                                      | at least one SEQUENCE OF EVENTS must equal 09 for that vehicle number in the CRASH EVENTS table. |
| A616            | PERSON TYPE equals <b>11, 12, or 13</b> , and VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST equals____,                                                                                                                                   | at least one SEQUENCE OF EVENTS must equal 15 for that vehicle number in the CRASH EVENTS table. |
| A617            | PERSON TYPE equals 10, and VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST equals____,                                                                                                                                                      | at least one SEQUENCE OF EVENTS must equal 08 for that vehicle number in the CRASH EVENTS table. |
| A618            | PERSON TYPE equals 19, and VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST equals____,                                                                                                                                                      | at least one SEQUENCE OF EVENTS must equal 99 for that vehicle number in the CRASH EVENTS table. |
| A619            | the total count of persons with PERSON TYPE equal to 05 that have the same VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is _____,                                                                                                        | the number of events equal to 08 for that vehicle in the CRASH EVENTS table should equal _____.  |
| A61A            | the total count of PERSON TYPE is equal to <b>11, 12, or 13</b> for the vehicle in VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is _____,                                                                                                | the number of events equal to 15 in the CRASH EVENTS table should equal _____ for that vehicle.  |
| A61B            | the total count of PERSON TYPE is equal to 10 for the vehicle in VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is _____,                                                                                                                  | the number of events equal to 08 in the CRASH EVENTS table should equal _____ for that vehicle.  |
| A61G            | the FIRST HARMFUL EVENT equals 08, and PERSON TYPE equals 05, and NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, 22, 24, 25, 28, and the VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is involved in the FIRST HARMFUL EVENT,     | CRASH TYPE should not equal 13 for this vehicle.                                                 |
| A61H            | the FIRST HARMFUL EVENT equals 09, and PERSON TYPE equals 06, 07, and NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, 22, 24, 25, 28, and the VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is involved in the FIRST HARMFUL EVENT, | CRASH TYPE should not equal 13 for this vehicle.                                                 |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                        | <b>THEN</b>                                                                                                                                                                                                 |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A61J            | the FIRST HARMFUL EVENT equals 15, and PERSON TYPE equals <b>11, 12, or 13</b> , and NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, 22, 24, 25, 28, and the VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is involved in the FIRST HARMFUL EVENT, | CRASH TYPE should not equal 13 for this vehicle.                                                                                                                                                            |
| A61K            | the FIRST HARMFUL EVENT equals 49, and PERSON TYPE equals 04, and NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, 22, 24, 25, 28, and the VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is involved in the FIRST HARMFUL EVENT,                    | CRASH TYPE should not equal 13 for this vehicle.                                                                                                                                                            |
| PB30            | PEDESTRIAN/BIKE TYPING -PEDESTRIAN CRASH TYPE equals 220,                                                                                                                                                                                                        | at least one DRIVER PRESENCE must equal 0 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.                                                         |
| PB31            | PEDESTRIAN/BIKE TYPING -BICYCLIST CRASH TYPE equals 147, 157, or 357,                                                                                                                                                                                            | at least one DRIVER'S VISION OBSCURED BY must equal 06 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.                                            |
| PB32            | PEDESTRIAN/BIKE TYPING -PEDESTRIAN CRASH TYPE equals 742,                                                                                                                                                                                                        | at least one DRIVER'S VISION OBSCURED BY must not equal 00 or 95 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.                                  |
| PB40            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLE equals 610,                                                                                                                                                                                                        | at least one PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 08, 09, or 13 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST. |
| PB41            | PEDESTRIAN/BIKE TYPING -BICYCLIST CRASH TYPE equals 215,                                                                                                                                                                                                         | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 08 or 09 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.                   |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                  | <b>THEN</b>                                                                                                                                                                                                 |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PB42            | PEDESTRIAN/BIKE TYPING -BICYCLIST CRASH TYPE equals 111, 211, or 212,                                                                                                                                                                      | at least one PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 11, 16, or 17 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST. |
| PB43            | If PEDESTRIAN/BIKE TYPING -BICYCLIST CRASH TYPE equals 112, 151, 213, 214, 217, or 218,                                                                                                                                                    | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 10, 16, or 17 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.              |
| PB45            | PEDESTRIAN/BIKE TYPING -PEDESTRIAN CRASH TYPE equals 781 or 782,                                                                                                                                                                           | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 11 or 17 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.                   |
| PB46            | PEDESTRIAN/BIKE TYPING -BICYCLIST CRASH TYPE equals 221-225,                                                                                                                                                                               | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 01 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.                       |
| PB49            | PERSON TYPE equals 05, <b>11, 12, or 13</b> , and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 13 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST,          | at least one PEDESTRIAN/BIKE TYPING - PEDESTRIAN CRASH TYPE should equal 211-214 or 219.                                                                                                                    |
| PB50            | PERSON TYPE equals 05, <b>11, 12, or 13</b> , and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 10-12 or 16 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST, | at least one PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN should equal 461, 465, 469, 510, 781, 782, 791, 792, 794, 795, or 799.                                                                        |
| PB52            | PERSON TYPE equals 06 or 07, and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 13 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST,                           | at least one PEDESTRIAN/BIKE TYPING - BICYCLIST CRASH TYPE should equal 610.                                                                                                                                |



| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                               | <b>THEN</b>                                                                                                                                                                               |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PB56            | PEDESTRIAN/BIKE TYPING - PEDESTRIAN CRASH TYPE equals 791, 792, 794, 795,                                                                                                               | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 10 or 17 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST. |
| PBA0            | PEDESTRIAN/ BIKE TYPING - CRASH TYPE - BICYCLE equals 111, 211, 212, and VEHICLE NUMBER - VEHICLE LEVEL equals VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST,                   | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 11.                                                                                                              |
| PBA1            | PEDESTRIAN/ BIKE TYPING - CRASH TYPE - BICYCLE equals 112, 151, 213, 214, 217, or 218, and VEHICLE NUMBER - VEHICLE LEVEL equals VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST, | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 10.                                                                                                              |
| PBA5            | PEDESTRIAN SCENARIO equals 1a, 1b, 1c, 1d, 2a, 2b, 2c, 2d, 3a, 3b, 3c, 3d, 4a, 4b, 4c, 4d,                                                                                              | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 01, 02, 03, 04, 06, 08, 09, 12, 13, 14, 15, 16, or 17 for the vehicle number that struck this non-motorist.      |
| PBA6            | PEDESTRIAN SCENARIO equals 5a, 5b, 5c, 5d, 6a, 6b, 6c, 6d, 7a, 7b, 7c, 7d, 8a, 8b, 8c, 8d,                                                                                              | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 10 for the vehicle number that struck this non-motorist.                                                         |
| PBA7            | PEDESTRIAN SCENARIO equals 9a, 9b, 9c, 9d, 10a, 10b, 10c, 10d, 11a, 11b, 11c, 11d, 12a, 12b, 12c, 12d,                                                                                  | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 11 for the vehicle number that struck this non-motorist.                                                         |

**NM5/P5 - Age****FORMAT:** 3 numeric**SAS NAME:** Person.AGE**ELEMENT VALUES:**

| Codes   | Attributes                          |
|---------|-------------------------------------|
| --      | Blank                               |
| 000     | Less than One Year                  |
| 001-120 | Actual Age*                         |
| 998     | <a href="#">Not Reported</a>        |
| 999     | <a href="#">Reported as Unknown</a> |

**Definition:** This element identifies the person's age, in years, with respect to the person's last birthday.

**Remarks:** This element's values and remarks are identical to the Person Level (MV Occupant) Level element AGE. Please see [AGE](#) for remarks.

**Consistency Checks ([See Section 400](#)):**

| Error ID | Error Message                                                                                                                                          |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| U120     | UNLIKELY: AGE should not be greater than 094, unless equal to 998, 999.                                                                                |
| U360     | UNLIKELY: AGE equals 999 and HIT AND RUN is not equal to 1.                                                                                            |
| U695     | Unlikely AGE equals 0 for a person not in a motor vehicle and [SEX equals 2 and AGE equals 5-72 for at least one other person not in a motor vehicle]. |

**Consistency Checks (FARS Only) ([See Section 400](#)):**

| Error ID | IF                                                  | THEN                                                |
|----------|-----------------------------------------------------|-----------------------------------------------------|
| 5W0P     | RELATED FACTORS-PERSON LEVEL equals 018,            | SEX must equal 2, and AGE must be greater than 012. |
| P1A0     | AGE is less than 012, and INJURY SEVERITY equals 4, | FATAL INJURY AT WORK should equal 0.                |

**NM6/P6 - Sex****FORMAT:** 1 numeric**SAS NAME:** Person.SEX**ELEMENT VALUES:**

| Codes | Attributes                          |
|-------|-------------------------------------|
| 1     | Male                                |
| 2     | Female                              |
| 8     | <a href="#">Not Reported</a>        |
| 9     | <a href="#">Reported as Unknown</a> |

**Definition:** This element identifies the sex of the person involved in the crash.**Remarks:** This element's values and remarks are identical to the Person Level (MV Occupant) Level element SEX. Please see [SEX](#) for remarks.**Consistency Checks** ([See Section 400](#)):

| Error ID | Error Message                                                                                                                                          |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| U340     | UNLIKELY: HIT-AND-RUN equals 0, and SEX equals 9.                                                                                                      |
| U695     | Unlikely AGE equals 0 for a person not in a motor vehicle and [SEX equals 2 and AGE equals 5-72 for at least one other person not in a motor vehicle]. |

**Consistency Checks (FARS Only)** ([See Section 400](#)):

| Error ID | IF                                       | THEN                                                |
|----------|------------------------------------------|-----------------------------------------------------|
| 5W0P     | RELATED FACTORS-PERSON LEVEL equals 018, | SEX must equal 2, and AGE must be greater than 012. |

## NM7 - Person Type

**FORMAT:** 2 numeric

**SAS NAME:** Person.PER\_TYP

**ELEMENT VALUES:**

| Codes | Attributes                                                                           |
|-------|--------------------------------------------------------------------------------------|
| 04    | <a href="#">Occupant of a Non-Motor Vehicle Transport Device</a>                     |
| 05    | <a href="#">Pedestrian</a>                                                           |
| 06    | <a href="#">Bicyclist</a>                                                            |
| 07    | <a href="#">Other Cyclist</a>                                                        |
| 10    | <a href="#">Persons In/On Buildings</a>                                              |
| 11    | <a href="#">Person on Motorized Personal Conveyance</a>                              |
| 12    | <a href="#">Person on Non-Motorized Personal Conveyance</a>                          |
| 13    | <a href="#">Person on Personal Conveyance, Unknown if Motorized or Non-Motorized</a> |
| 19    | <a href="#">Unknown Type of Non-Motorist</a>                                         |

**Definition:** This element describes the role of this person involved in the crash.

**Remarks:** An involved person in a crash must maintain PERSON TYPE during the crash. Once the unstabilized situation begins, a driver, passenger, or non-motorist/non-occupant cannot change PERSON TYPE until the situation stabilizes.

If a person is entering or exiting a vehicle before the unstabilized situation begins, try to determine if the person has successfully changed type before control is lost. For example, a person attempting to get into an automobile that begins to move would be classified as a pedestrian. Likewise, a passenger stepping off a bus as it begins to pull away, would be classified as an occupant.

**04 (Occupant of a Non-Motor Vehicle Transport Device)** refers to people riding in an animal-drawn conveyance, on an animal, or injured occupants of railway trains, etc.

**05 (Pedestrian)** is used for all pedestrians except for those in/on personal conveyances (see [11 \(Person on Motorized Personal Conveyance\)](#), [12 \(Person on Non-Motorized personal Conveyance\)](#), and [13 \(Person on Personal Conveyance, Unknown if Motorize or Non-Motorized\)](#) below) and in buildings (see [10 \(Persons In/On Buildings\)](#) below). A person pushing a vehicle or being carried by a pedestrian should be coded **05 (Pedestrian)**.

**06 (Bicyclist)** is used for a two-wheel, non-motorized cycle. This includes all people (operator and passengers) on a bicycle and a person being pulled by a bicycle (e.g., in a wagon or bike trailer).

**07 (Other Cyclist)** is used for unicycles and tricycles.

**10 (Persons In/On Buildings)** is used for a person inside of or on a building who is struck by a motor vehicle directly or by way of an object set in motion (e.g., crash debris as a vehicle penetrates a wall). **10 (Persons In/On Buildings)** takes precedence over attributes “**05-07 and 11-13.**”

**NOTE about personal conveyances:** A personal conveyance is a device, other than a transport device, used by a pedestrian for personal mobility assistance or recreation. These devices can be motorized or human powered, but not propelled by pedaling.

**Inclusions:**

1. Rideable toys
  - a. Roller skates, in-line skates
  - b. Skateboards
  - c. Skates
  - d. Baby carriage
  - e. Scooters
  - f. Toy wagons
2. Motorized rideable toys
  - a. Motorized skateboard
  - b. Motorized toy car
  - c. **Motorized kick scooter**
3. Devices for personal mobility assistance
  - a. **Self-balancing personal conveyance (e.g., Segway-style device)**
  - b. Motorized and non-motorized [wheelchairs](#)
  - c. **Mobility aid** scooters

**Exclusions:**

1. Golf cart
2. Low speed vehicles (LSVs)
3. Go-carts
4. Minibike
5. “Pocket” motorcycles
6. Motor scooters
7. Moped

**Wheelchair:** use the term, “wheelchair” as follows:

“Wheelchair - A mobility aid, usable indoors, and designed for and used by individuals with mobility impairments, whether operated manually or powered.” Therefore, all wheelchair users, motorized or not, are **People on Personal Conveyances**.

**RATIONALE:**

Some States have passed legislation to classify operators of motorized wheelchairs as “pedestrians” and others as “motor vehicles.” Also, there seems to be an increase in the variety of forms these

devices take (if not in the actual number in use). Some resemble three-wheeled scooters; others small four-wheel carts; still others look like the typical human-powered wheelchair. They are in use by individuals who are unable to walk, who have limited walking ability, or who need to avoid walking for reasons of health or stamina. Since these devices simply supply a form of assisted “walking” for such people, their legitimate users may be seen as “other people on personal conveyances” just as other non-motorists moving along a sidewalk, walking with or against traffic on the edge of a road, crossing the roadway, or turning into a driveway.

**11 (Person on Motorized Personal Conveyance)** is used when the non-motorist was using a personal conveyance equipped with a motor to assist or assume control of propelling the conveyance. Use this code anytime the device has a motor. If the motor was not in use or it is unknown if the motor was in use at the time of the crash, then this attribute still applies. Examples: motorized skateboard, motorized wheelchair or mobility aid scooters, motorized e-scooters, self-balancing personal conveyances (e.g., hoverboard or Segway-style device), etc.

**NOTE:** Motorized bicycles and e-bikes are considered motor vehicles. See NCSA BODY TYPE [81 \(Moped or Motorized Bicycle\)](#). Likewise, a person riding one of these vehicles is considered a Motor Vehicle Occupant.

**12 (Person on Non-Motorized Personal Conveyance)** is used when the non-motorist was using a personal conveyance not equipped with a motor to assist or assume control of propelling the conveyance. Examples: non-motorized roller skates or in-line skates, non-motorized skateboard, baby carriage, non-motorized scooter, non-motorized wheelchair, etc.

**13 (Person on Personal Conveyance, Unknown if Motorized or Non-Motorized)** is used when it is known that the non-motorist was using a personal conveyance at the time of the crash, but it is unknown whether the device was motorized or non-motorized (i.e., [code 11](#) or [code 12](#)).

**19 (Unknown Type of Non-Motorist)** is used only when it cannot be determined which attribute is applicable for people not in motor vehicles.

**Consistency Checks** ([See Section 400](#)):

| Error ID | IF                                                                                     | THEN                                                                                              |
|----------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| 050P     | PERSON TYPE equals 04-07, 10-19, and NUMBER OF VEHICLE FORMS SUBMITTED equals 001,     | VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST must equal 001.                             |
| 1M1F     | RELATED FACTORS-PERSON LEVEL (Not a MV Occupant) equals 013,                           | PERSON TYPE should equal 11.                                                                      |
| 1M2F     | at least one RELATED FACTORS - PERSON (NOT A MOTOR VEHICLE OCCUPANT) LEVEL equals 101, | PERSON TYPE must not equal 04 or 10.                                                              |
| 1M3F     | at least one RELATED FACTORS - PERSON (NOT A MOTOR VEHICLE OCCUPANT) LEVEL equals 100, | PERSON TYPE should equal 06, 11, 12, or 13.                                                       |
| 1N0F     | PERSON TYPE equals 06,                                                                 | RELATED FACTORS-PERSON LEVEL (Not a MV Occupant) must not equal 009, 013, 069, 070, 090, 094-097. |

| <b>Error ID</b> | <b>IF</b>                                                | <b>THEN</b>                                                                                                                                                                         |
|-----------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1N1F            | PERSON TYPE equals 10,                                   | RELATED FACTORS-PERSON LEVEL (Not a MV Occupant) must not equal <b>009, 021, 037, 040-042, 051, 052, 053, 054, 055, 056, 057, 060-070, 072-078, 080-083, 090, 091, 100, or 101.</b> |
| 1P0G            | PERSON TYPE equals 05,                                   | NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must not equal 07, 08, 10, 13-18, 20.                                                                                                       |
| 1P1F            | PERSON TYPE equals 04, 05, 10, <b>11, 12, 13,</b> or 19, | NON-MOTORIST LOCATION AT TIME OF CRASH should not equal 16 for this person.                                                                                                         |
| 1P1G            | PERSON TYPE equals 19,                                   | NON-MOTORIST ACTION/CIRCUMSTANCES should not equal 11, 12.                                                                                                                          |
| 1P2F            | PERSON TYPE equals 10,                                   | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 25.                                                                                                                               |
| 1P3F            | PERSON TYPE (NM7) equals 10,                             | NON-MOTORIST ACTION/CIRCUMSTANCES (NM11) must not equal 01-12, 16, and NON-MOTORIST CONTRIBUTING CIRCUMSTANCES (NM12) must not equal 01-20.                                         |
| 1P3G            | PERSON TYPE equals 04, 06, 07,                           | NON-MOTORIST CONTRIBUTING CIRCUMSTANCES should not equal 04.                                                                                                                        |
| 1P4F            | PERSON TYPE equals 04,                                   | NON-MOTORIST ACTION/CIRCUMSTANCES must not equal 04, 12.                                                                                                                            |
| 1P4G            | PERSON TYPE equals 04, 06, <b>07, 11, 12, 13,</b> 19,    | NON-MOTORIST CONTRIBUTING CIRCUMSTANCES should not equal 05.                                                                                                                        |
| 1P5F            | PERSON TYPE equals 06, <b>07, 11, 12, 13, or</b> 19,     | NON-MOTORIST ACTION/CIRCUMSTANCES must not equal 04.                                                                                                                                |
| 1P5G            | PERSON TYPE equals <b>11, 12, or 13,</b>                 | NON-MOTORIST CONTRIBUTING CIRCUMSTANCES should not equal 20.                                                                                                                        |
| 1P6G            | PERSON TYPE equals 04, 06, <b>07, 11, 12, 13,</b> or 19, | CONDITION (IMPAIRMENT) AT TIME OF CRASH must not equal 03.                                                                                                                          |
| 1P7F            | PERSON TYPE equals 04,                                   | NON-MOTORIST ACTION/CIRCUMSTANCES should not equal 10, 11.                                                                                                                          |
| 1P7G            | PERSON TYPE equals 05-07, 19,                            | CONDITION (IMPAIRMENT) AT TIME OF CRASH should not equal 04.                                                                                                                        |

| <b>Error ID</b> | <b>IF</b>                                                                                                         | <b>THEN</b>                                                                           |
|-----------------|-------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1P8F            | PERSON TYPE equals 06, 07,                                                                                        | NON-MOTORIST ACTION/CIRCUMSTANCES should not equal 10-12.                             |
| 1P8G            | PERSON TYPE equals 10,                                                                                            | CONDITION (IMPAIRMENT) AT TIME OF CRASH should not equal 01-10, 96.                   |
| 1P9F            | PERSON TYPE equals <b>11, 12, or 13</b> ,                                                                         | NON-MOTORIST ACTION/CIRCUMSTANCES should not equal 11.                                |
| 1PJ1            | NON-MOTORIST LOCATION AT TIME OF CRASH equals 16,                                                                 | the PERSON TYPE for this person should equal 06 or 07.                                |
| 2P0G            | CONDITION (IMPAIRMENT) AT TIME OF CRASH equals 03,                                                                | PERSON TYPE must be 05, 10, <b>11, 12, 13</b> , or 19.                                |
| <b>2P1F</b>     | <b>PERSON TYPE equals 04, 06, 07, or 10,</b>                                                                      | <b>NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must not equal 12.</b>                     |
| 3B1Q            | CRITICAL EVENT - PRECRASH (EVENT) equals 81 or 82,                                                                | at least one PERSON TYPE should equal 05.                                             |
| 3B2Q            | CRITICAL EVENT - PRECRASH (EVENT) equals 83 and PRE-IMPACT LOCATION does not equal 4,                             | at least one PERSON TYPE should equal 04, 06, 07, <b>11, 12, 13</b> , or 19.          |
| 3B3Q            | CRITICAL EVENT - PRECRASH (EVENT) equals 84 or 85,                                                                | at least one PERSON TYPE should equal 04, 06, 07, <b>11, 12, 13</b> , or 19.          |
| 3P0F            | PERSON TYPE equals 03- <b>07</b> , 10, <b>11, 12, 13</b> , or 19,                                                 | INJURY SEVERITY should not equal 6.                                                   |
| 4W4P            | RELATED FACTORS-PERSON LEVEL (Not a MV Occupant) equals <b>053, 054, 055</b> , and PERSON TYPE does not equal 05, | at least one NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must equal 18.                   |
| 4W5P            | RELATED FACTORS-PERSON LEVEL (Not a MV Occupant) equals <b>053, 054, 055</b> , and PERSON TYPE equals 05,         | at least one NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must equal 21.                   |
| 4X3A            | NON-MOTORIST CONTRIBUTING CIRCUMSTANCES equals 11,                                                                | PERSON TYPE must equal 05.                                                            |
| 550F            | FIRST HARMFUL EVENT equals 08,                                                                                    | at least one person must have PERSON TYPE equal 05, 10.                               |
| 560F            | FIRST HARMFUL EVENT equals 09,                                                                                    | at least one person must have PERSON TYPE equal to 06, 07.                            |
| 590F            | FIRST HARMFUL EVENT equals 15,                                                                                    | at least one Person Level form must have a PERSON TYPE code of <b>11, 12, or 13</b> . |



| <b>Error ID</b> | <b>IF</b>                                                                                                | <b>THEN</b>                                                                                                                                  |
|-----------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 5M2G            | <b><i>SPECIAL USE equals 06, and PERSON TYPE equals 02, and SEATING POSITION equals 51,</i></b>          | <b><i>at least one RELATED FACTORS - PERSON LEVEL should equal 092 or 094.</i></b>                                                           |
| 5M3G            | <b><i>SPECIAL USE equals 06, and PERSON TYPE equals 01 or 02, and SEATING POSITION equals 11-19,</i></b> | <b><i>at least one RELATED FACTORS - PERSON LEVEL should equal 094, or at least one RELATED FACTORS - DRIVER LEVEL should equal 094.</i></b> |
| 5Z0F            | SEQUENCE OF EVENTS equals 08,                                                                            | at least one person must have PERSON TYPE equal to 05, 10.                                                                                   |
| 6Z0F            | SEQUENCE OF EVENTS equals 09,                                                                            | at least one person must have PERSON TYPE equal to 06, 07.                                                                                   |
| 880F            | RELATED FACTORS-CRASH LEVEL equals 016,                                                                  | there must be a Person Level (NOT A MV OCCUPANT) form with PERSON TYPE equal to 04-07, 11, 12, 13, or 19.                                    |
| 890F            | RELATED FACTORS-CRASH LEVEL equals 015,                                                                  | there must be a Person Level (NOT A MV OCCUPANT) form with PERSON TYPE equal to 04-07, 10-13, or 19.                                         |
| 8M0F            | PERSON TYPE equals 04,                                                                                   | RELATED FACTORS-PERSON LEVEL (NOT A MV OCCUPANT) must not equal 013, 053, 054, 055, 090, 094-097, or 101.                                    |
| 8Q0F            | PERSON TYPE equals 11, 12, or 13,                                                                        | RELATED FACTORS-PERSON (NOT A MV OCCUPANT) LEVEL must not equal 009, 090, or 094-097.                                                        |
| 8T0F            | NON-MOTORIST SAFETY EQUIPMENT Subfield 1 Non-Motorist Helmet Use equals 2,                               | PERSON TYPE should equal 06, 07, 11, 12, or 13.                                                                                              |
| 8Z0F            | any SEQUENCE OF EVENTS equals 15,                                                                        | at least one Person Level (Not a MV Occupant) form must have a PERSON TYPE code of 11, 12, or 13.                                            |
| 9M0F            | PERSON TYPE equals 05,                                                                                   | RELATED FACTORS-PERSON LEVEL (NOT A MV OCCUPANT) must not equal 013, 021, 026, 040, 042, 051, 052, 057, 068-070, 073-083, or 100.            |
| A612            | PERSON TYPE equals 04, and VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST equals____,             | at least one SEQUENCE OF EVENTS must equal 10, 49, or 74 for that vehicle number in the CRASH EVENTS table.                                  |
| A613            | PERSON TYPE equals 05, and VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST equals____,             | at least one SEQUENCE OF EVENTS must equal 08 for that vehicle number in the CRASH EVENTS table.                                             |
| A614            | PERSON TYPE equals 06, and VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST equals____,             | at least one SEQUENCE OF EVENTS must equal 09 for that vehicle number in the CRASH EVENTS table.                                             |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                         | <b>THEN</b>                                                                                      |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| A615            | PERSON TYPE equals 07, and VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST equals____,                                                                                                                                                      | at least one SEQUENCE OF EVENTS must equal 09 for that vehicle number in the CRASH EVENTS table. |
| A616            | PERSON TYPE equals <b>11, 12, or 13</b> , and VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST equals____,                                                                                                                                   | at least one SEQUENCE OF EVENTS must equal 15 for that vehicle number in the CRASH EVENTS table. |
| A617            | PERSON TYPE equals 10, and VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST equals____,                                                                                                                                                      | at least one SEQUENCE OF EVENTS must equal 08 for that vehicle number in the CRASH EVENTS table. |
| A618            | PERSON TYPE equals 19, and VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST equals____,                                                                                                                                                      | at least one SEQUENCE OF EVENTS must equal 99 for that vehicle number in the CRASH EVENTS table. |
| A619            | the total count of persons with PERSON TYPE equal to 05 that have the same VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is _____,                                                                                                        | the number of events equal to 08 for that vehicle in the CRASH EVENTS table should equal _____.  |
| A61A            | the total count of PERSON TYPE is equal to <b>11, 12, or 13</b> for the vehicle in VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is _____,                                                                                                | the number of events equal to 15 in the CRASH EVENTS table should equal _____ for that vehicle.  |
| A61B            | the total count of PERSON TYPE is equal to 10 for the vehicle in VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is _____,                                                                                                                  | the number of events equal to 08 in the CRASH EVENTS table should equal _____ for that vehicle.  |
| A61G            | the FIRST HARMFUL EVENT equals 08, and PERSON TYPE equals 05, and NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, 22, 24, 25, 28, and the VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is involved in the FIRST HARMFUL EVENT,     | CRASH TYPE should not equal 13 for this vehicle.                                                 |
| A61H            | the FIRST HARMFUL EVENT equals 09, and PERSON TYPE equals 06, 07, and NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, 22, 24, 25, 28, and the VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is involved in the FIRST HARMFUL EVENT, | CRASH TYPE should not equal 13 for this vehicle.                                                 |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                        | <b>THEN</b>                                                                                                                  |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| A61J            | the FIRST HARMFUL EVENT equals 15, and PERSON TYPE equals <b>11, 12, or 13</b> , and NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, 22, 24, 25, 28, and the VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is involved in the FIRST HARMFUL EVENT, | CRASH TYPE should not equal 13 for this vehicle.                                                                             |
| A61K            | the FIRST HARMFUL EVENT equals 49, and PERSON TYPE equals 04, and NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, 22, 24, 25, 28, and the VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is involved in the FIRST HARMFUL EVENT,                    | CRASH TYPE should not equal 13 for this vehicle.                                                                             |
| BZ51            | CRITICAL EVENT - PRECRASH (EVENT) equals 80 and PRE-IMPACT LOCATION does not equal 4,                                                                                                                                                                            | at least one PERSON TYPE should equal 5.                                                                                     |
| CK0P            | PERSON TYPE equals 07,                                                                                                                                                                                                                                           | RELATED FACTORS-PERSON LEVEL (NOT A MV OCCUPANT) must not equal <b>009, 013, 069, 070, 087, 090, 094-097</b> .               |
| CM0P            | PERSON TYPE equals 19,                                                                                                                                                                                                                                           | RELATED FACTORS-PERSON LEVEL (NOT A MV OCCUPANT) must not equal <b>013, 069, 070, 090</b> .                                  |
| FP0F            | PERSON TYPE is blank,                                                                                                                                                                                                                                            | case status is flawed.                                                                                                       |
| FP9F            | PERSON TYPE equals 05, 06, 07, <b>11, 12, or 13</b> , and the PEDESTRIAN/BIKE - CRASH TYPE equals blank,                                                                                                                                                         | case status is flawed.                                                                                                       |
| P071            | PERSON TYPE equals 02, 04- <b>07</b> , 10, <b>11, 12, or 13</b> , and INJURY SEVERITY does not equal 4,                                                                                                                                                          | ALCOHOL TEST STATUS should not equal 9, ALCOHOL TEST TYPE should not equal 99, and ALCOHOL TEST RESULT should not equal 999. |
| P074            | PERSON TYPE equals 02, 04- <b>07</b> , 10, <b>11, 12, or 13</b> , and INJURY SEVERITY does not equal 4,                                                                                                                                                          | ALCOHOL TEST STATUS must not equal 8, ALCOHOL TEST TYPE must not equal 95, and ALCOHOL TEST RESULT must not equal 995.       |
| PB22            | SCHOOL BUS RELATED equals 1, and PERSON TYPE equals 05, <b>11, 12, or 13</b> ,                                                                                                                                                                                   | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN should equal 342.                                                           |
| PB23            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 342, and PERSON TYPE equals 05, <b>11, 12, or 13</b> ,                                                                                                                                                   | SCHOOL BUS RELATED should equal 1.                                                                                           |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                  | <b>THEN</b>                                                                                                                            |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| PB24            | PERSON TYPE equals 05, <b>11, 12, or 13</b> , and NON-MOTORIST LOCATION AT TIME OF CRASH equals 14, 16, 20, 21, 22, 24, or 25,                                                                                                             | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN should equal 230, 320, 330, 410, 420, 430, 440, 459, 510, 520, 590, 830, or 890.      |
| PB25            | PERSON TYPE equals 05, <b>11, 12, or 13</b> , and NON-MOTORIST LOCATION AT TIME OF CRASH equals 01-03 or 09,                                                                                                                               | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN should equal 690, 710, 730, 741, 742, 760, 770, 781, 782, 791, 792, 794, 795, or 799. |
| PB26            | NON-MOTORIST CONTRIBUTING CIRCUMSTANCES equals 02, and PERSON TYPE equals 06 or 07,                                                                                                                                                        | PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLIST should equal 142, 144, 147, 153, 155, 156, 157, 159, 311, 312, 313, 318, 319, or 357.  |
| PB27            | NON-MOTORIST ACTION/CIRCUMSTANCES equals 05, and PERSON TYPE equals 05, <b>11, 12, or 13</b> ,                                                                                                                                             | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN should equal 410 or 420.                                                              |
| PB28            | NON-MOTORIST ACTION/CIRCUMSTANCES equals 06, and PERSON TYPE equals 05, <b>11, 12, or 13</b> ,                                                                                                                                             | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN should equal 430 or 440.                                                              |
| PB29            | NON-MOTORIST ACTION/CIRCUMSTANCES equals 04, <b>and does not also equal 03</b> , and PERSON TYPE equals 05, <b>11, 12, or 13</b> ,                                                                                                         | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN should equal 410, 420, 430, 440, or 459.                                              |
| PB36            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 250,                                                                                                                                                                               | PERSON TYPE must equal <b>11, 12, or 13</b> .                                                                                          |
| PB49            | PERSON TYPE equals 05, <b>11, 12, or 13</b> , and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 13 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST,          | at least one PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN should equal 211-214 or 219.                                             |
| PB50            | PERSON TYPE equals 05, <b>11, 12, or 13</b> , and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 10-12 or 16 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST, | at least one PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN should equal 461, 465, 469, 510, 781, 782, 791, 792, 794, 795, or 799.   |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                        | <b>THEN</b>                                                                    |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| PB52            | PERSON TYPE equals 06 or 07, and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 13 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST, | at least one PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLIST should equal 610. |
| PB59            | NON-MOTORIST ACTION/CIRCUMSTANCES equals 16, and PERSON TYPE equals 05, <b>11, 12, or 13</b> ,                                                                                                                   | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN should equal 459.             |
| PB60            | PERSON TYPE equals 05, <b>11, 12, or 13</b> , and DRIVER PRESENCE equals 0 for the motor vehicle which strikes the non-motorist,                                                                                 | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN should equal 220.             |

**Consistency Checks (FARS Only) ([See Section 400](#)):**

| <b>Error ID</b> | <b>IF</b>                                                                                                   | <b>THEN</b>                                                                                                                    |
|-----------------|-------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| P073            | PERSON TYPE equals 02, 04- <b>07</b> , 10, <b>11, 12, or 13</b> , and INJURY SEVERITY does not equal 4,     | DRUG TEST STATUS should not equal 9 and any DRUG SPECIMEN should not equal 99, and any DRUG TEST RESULTS should not equal 999. |
| P075            | PERSON TYPE equals 02, 04- <b>07</b> , 10, <b>11, 12, 13</b> , or 19, and INJURY SEVERITY does not equal 4, | DRUG TEST STATUS must not equal 8, any DRUG SPECIMEN must not equal 96, and any DRUG TEST RESULTS must not equal 095.          |

## NM8/P8 - Injury Severity

**FORMAT:** 1 numeric

**SAS NAME:** Person.INJ\_SEV

**ELEMENT VALUES:**

| Codes | Attributes                                   |
|-------|----------------------------------------------|
| 0     | <a href="#">No Apparent Injury (O)</a>       |
| 1     | <a href="#">Possible Injury (C)</a>          |
| 2     | <a href="#">Suspected Minor Injury (B)</a>   |
| 3     | <a href="#">Suspected Serious Injury (A)</a> |
| 4     | <a href="#">Fatal Injury (K)</a>             |
| 5     | <a href="#">Injured, Severity Unknown</a>    |
| 6     | <a href="#">Died Prior to Crash*</a>         |
| 9     | <a href="#">Unknown/Not Reported</a>         |

**Definition:** This element describes the severity of the injury to this person in the crash.

**Remarks:** This element's values and remarks are identical to the Person Level (MV Occupant) Level element INJURY SEVERITY. Please see [INJURY SEVERITY](#) for remarks.

**Consistency Checks** ([See Section 400](#)):

| Error ID    | IF                                                                                                      | THEN                                                                                                                         |
|-------------|---------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| 2U3F        | INJURY SEVERITY equals 3,                                                                               | TRANSPORTED TO FIRST MEDICAL FACILITY BY should not equal 0.                                                                 |
| 3P0F        | PERSON TYPE equals 03-07, 10, <b>11, 12, 13,</b><br><b>or 19,</b>                                       | INJURY SEVERITY should not equal 6.                                                                                          |
| FP8F        | INJURY SEVERITY is blank,                                                                               | case status is flawed.                                                                                                       |
| P071        | PERSON TYPE equals 02, 04-07, 10, <b>11, 12,</b><br><b>or 13,</b> and INJURY SEVERITY does not equal 4, | ALCOHOL TEST STATUS should not equal 9, ALCOHOL TEST TYPE should not equal 99, and ALCOHOL TEST RESULT should not equal 999. |
| <b>P077</b> | <b>INJURY SEVERITY equals 4, and DIED AT SCENE/EN ROUTE equals 7 or 8,</b>                              | <b>ALCOHOL TEST Subfield 2 - Test Type should not equal 02, 10, or 11.</b>                                                   |
| P090        | INJURY SEVERITY equals 0,                                                                               | TRANSPORTED TO FIRST MEDICAL FACILITY BY must equal 0.                                                                       |
| P300        | POLICE REPORTED ALCOHOL INVOLVEMENT equals 1, and INJURY SEVERITY equals 4,                             | ALCOHOL TEST STATUS should not equal 0.                                                                                      |
| U160        | UNLIKELY: INJURY SEVERITY equals 6.                                                                     | --                                                                                                                           |

| <b>Error ID</b> | <b>IF</b>                                                             | <b>THEN</b> |
|-----------------|-----------------------------------------------------------------------|-------------|
| U350            | UNLIKELY: INJURY SEVERITY equals 1-6, and SEATING POSITION equals 98. | --          |

**Consistency Checks (FARS Only) ([See Section 400](#)):**

| <b>Error ID</b> | <b>IF</b>                                                                                       | <b>THEN</b>                                                                                                                    |
|-----------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| 1R1P            | If DIED AT SCENE/EN ROUTE equals 7, 8,                                                          | INJURY SEVERITY must equal 4.                                                                                                  |
| 1U1F            | INJURY SEVERITY equals 4,                                                                       | DEATH DATE must not equal 88888888.                                                                                            |
| 1U2F            | INJURY SEVERITY equals 4,                                                                       | DEATH TIME must not equal 8888.                                                                                                |
| 2U1F            | INJURY SEVERITY is not equal to 4,                                                              | DEATH DATE must equal 88888888.                                                                                                |
| 2U2F            | INJURY SEVERITY is not equal to 4,                                                              | DEATH TIME must equal 8888.                                                                                                    |
| 4V1F            | INJURY SEVERITY equals 4,                                                                       | DEATH DATE and DEATH TIME for this person must be within 720 hours of the CRASH DATE and CRASH TIME.                           |
| 4U0F            | Each original submission must have at least one Person Level form with INJURY SEVERITY coded 4. | --                                                                                                                             |
| 7E0P            | INJURY SEVERITY equals 4,                                                                       | DEATH CERTIFICATE NUMBER must NOT equal 0000-00-000000.                                                                        |
| 7E1P            | INJURY SEVERITY equals 4,                                                                       | RACE must not equal 00.                                                                                                        |
| 7E2P            | INJURY SEVERITY equals 4,                                                                       | HISPANIC ORIGIN must not equal 00.                                                                                             |
| 7E3P            | INJURY SEVERITY is not equal to 4,                                                              | RACE must equal 00 AND HISPANIC ORIGIN must equal 00.                                                                          |
| 7F0P            | DEATH CERTIFICATE NUMBER is not blank or 0000-00-000000,                                        | INJURY SEVERITY must equal 4.                                                                                                  |
| 7F1P            | RACE equals 00,                                                                                 | INJURY SEVERITY must not equal 4.                                                                                              |
| 7F2P            | HISPANIC ORIGIN equals 00,                                                                      | INJURY SEVERITY must not equal 4.                                                                                              |
| 7F3P            | RACE is not equal to 00, and HISPANIC ORIGIN is not equal to 00,                                | INJURY SEVERITY must equal 4.                                                                                                  |
| 7R0P            | FATAL INJURY AT WORK equals 0, 1, 9,                                                            | INJURY SEVERITY must equal 4.                                                                                                  |
| 7W0P            | FATAL INJURY AT WORK equals 8,                                                                  | INJURY SEVERITY must not equal 4.                                                                                              |
| P073            | PERSON TYPE equals 02, 04-07, 10, <b>11, 12, or 13</b> , and INJURY SEVERITY does not equal 4,  | DRUG TEST STATUS should not equal 9 and any DRUG SPECIMEN should not equal 99, and any DRUG TEST RESULTS should not equal 999. |
| P1A0            | AGE is less than 012, and INJURY SEVERITY equals 4,                                             | FATAL INJURY AT WORK should equal 0.                                                                                           |
| P53P            | INJURY SEVERITY equals 0-3, 5, 6,                                                               | DIED AT SCENE/EN ROUTE must equal 0.                                                                                           |

**Consistency Check (CRSS Only) [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>Error Message</b>                                                                                                           |                                                                            |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| 4U2F            | At least one INJURY SEVERITY should equal 1, 2, 3, 4, 5, or 9, or at least one EXTENT OF DAMAGE should equal 2, 4, 6, 8, or 9. |                                                                            |
| P078            | <b>INJURY SEVERITY equals 4,</b>                                                                                               | <b>ALCOHOL TEST Subfield 2 - Test Type should not equal 02, 10, or 11.</b> |



## NM9 - Pedestrian/Bike Typing

**FORMAT:** Elements Completed in **RBIS**

**SAS NAME:** Various

**Definition:** This element describes the precrash actions leading to crashes between motor vehicles and pedestrians or bicyclists.

**Remarks:** Pedestrian and Bicycle Crash Type describes the precrash actions of the involved parties to better define the sequence of events and precipitating actions leading to crashes between motor vehicles and pedestrians or bicyclists.

During the 1970s NHTSA developed methodologies for typing pedestrian and bicycle crashes. In the 1990s the methodologies were applied to more than 8,000 pedestrian and bicycle crashes in six States. The results provided a representative summary of the distribution of crash types experienced by pedestrians and bicyclists and, over time, this method has evolved and was refined. Pedestrian/Bike typing is offered as a tool to help overcome hindrances to the development of effective countermeasures to prevent bicyclist and pedestrian crashes.

In FARS and CRSS, Pedestrian and Bicycle Crash Typing is accomplished through a software application referred to as the **Ped/Bike Wizard**. By clicking on choices in the wizard, the analyst/coder enters data into the file without typing each specific data element's attribute (numeric code).

The elements, attributes, and remarks are not presented here in the main Coding and Validation manual, but rather in the detailed companion **FARS/CRSS Pedestrian Bicyclist Manual**.

The Pedestrian/Bike Typing application is presented for the following [person types](#):

- [Pedestrian](#),
- [Person on Personal Conveyance](#),
- [Bicyclist](#),
- [Other Cyclist](#).

**Consistency Checks** ([See Section 400](#)):

| Error ID | IF                                                           | THEN                                                                  |
|----------|--------------------------------------------------------------|-----------------------------------------------------------------------|
| 0PB1     | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 741, | at least one NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must equal 11.   |
| 0PB2     | PEDESTRIAN BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 760, | at least one NON-MOTORIST CONTRIBUTING CIRCUMSTANCES should equal 02. |
| 1PK2     | NON-MOTORIST LOCATION AT TIME OF CRASH equals 21,            | SIDEWALK PRESENT must equal 1.                                        |
| 1PK3     | NON-MOTORIST LOCATION AT TIME OF CRASH equals 01 or 10,      | MARKED CROSSWALK PRESENT must equal 1.                                |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                               | <b>THEN</b>                                                                                                                                        |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| FP9F            | PERSON TYPE equals 05, 06, 07, <b>11, 12, or 13</b> , and the PEDESTRIAN/ CRASH TYPE equals blank,                                                      | case status is flawed.                                                                                                                             |
| PB00            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 110-910,                                                                                        | at least one SEQUENCE OF EVENTS for the striking vehicle must equal 08 or 15.                                                                      |
| PB02            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLE equals 111-980,                                                                                           | at least one SEQUENCE OF EVENTS for the striking vehicle must equal 09.                                                                            |
| PB04            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN for a person involved in the first harmful event equals 211, 212, 461, 465, 680, 830, 890, 900 or 910, | RELATION TO JUNCTION (b) must not equal 02. Note: this edit is restricted to vehicles which are involved in only one event with pedestrian(s).     |
| PB05            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN for a person involved in the first harmful event equals 311, 312 or 313,                               | RELATION TO TRAFFICWAY must equal 01 or 11. Note: this edit is restricted to vehicles which are involved in only one event with pedestrian(s).     |
| PB06            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 730,                                                                                            | TRAFFIC CONTROL DEVICE for the striking vehicle must equal 01-03.                                                                                  |
| PB07            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLE for a person involved in the first harmful event equals 311, 312, 313, 321, 322 or 323,                   | RELATION TO JUNCTION (b) must equal 04 or 08. Note: this edit is restricted to vehicles which are involved in only one event with bicyclist(s).    |
| PB08            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLE for a person involved in the first harmful event equals 141-144, 147, 151-157 or 159,                     | RELATION TO JUNCTION (b) must equal 02 or 03. Note: this edit is restricted to vehicles which are involved in only one event with bicyclist(s).    |
| PB09            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLE equals 141, 143, 151-158, 217 or 218,                                                                     | TRAFFIC CONTROL DEVICE for the striking vehicle must not equal 00.                                                                                 |
| PB10            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLE equals 151, 156, 157, 217 or 218,                                                                         | TRAFFIC CONTROL DEVICE for the striking vehicle must equal 01- <b>03</b> .                                                                         |
| PB11            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLE equals 154,                                                                                               | TRAFFIC CONTROL DEVICE for the striking vehicle must equal 01-04, 08.                                                                              |
| PB12            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN for a person involved in the first harmful event equals 510, 520, or 590,                              | RELATION TO TRAFFICWAY must not equal 01 or 11. Note: this edit is restricted to vehicles which are involved in only one event with pedestrian(s). |
| PB15            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 910,                                                                                            | at least one NON-MOTORIST ACTION/ CIRCUMSTANCES must equal 03.                                                                                     |

| <b>Error ID</b> | <b>IF</b>                                                                                                                      | <b>THEN</b>                                                                                                                                                                                                |
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| PB16            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLE equals 142, 144, 147, 153, 155, 156, 157, 159, 311, 312, 313, 318, 319, or 357,  | at least one NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must equal 02.                                                                                                                                        |
| PB17            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN for a person involved in the first harmful event equals 211-214, or 219,      | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 08, 09, 13, or 98.<br><br><b>Note:</b> this edit is restricted to vehicles which are involved in only one event with pedestrian(s). |
| PB18            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 742,                                                                   | at least one NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must equal 01.                                                                                                                                        |
| PB19            | NON-MOTORIST ACTION/CIRCUMSTANCES equals 08,                                                                                   | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN must not equal 510, 520, 590, 830, or 890.                                                                                                                |
| PB20            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 510, 520, or 590,                                                      | at least one NON-MOTORIST ACTION/CIRCUMSTANCES must equal 02.                                                                                                                                              |
| PB21            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLE equals 160,                                                                      | TRAFFIC CONTROL DEVICE for the striking vehicle should equal 00.                                                                                                                                           |
| PB22            | SCHOOL BUS RELATED equals 1, and PERSON TYPE equals 05, <b>11, 12, or 13</b> ,                                                 | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN should equal 342.                                                                                                                                         |
| PB23            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 342, and PERSON TYPE equals 05, <b>11, 12, or 13</b> ,                 | SCHOOL BUS RELATED should equal 1.                                                                                                                                                                         |
| PB24            | PERSON TYPE equals 05, <b>11, 12, or 13</b> , and NON-MOTORIST LOCATION AT TIME OF CRASH equals 14, 16, 20, 21, 22, 24, or 25, | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN should equal 230, 320, 330, 410, 420, 430, 440, 459, 510, 520, 590, 830, or 890.                                                                          |
| PB25            | PERSON TYPE equals 05, <b>11, 12, or 13</b> , and NON-MOTORIST LOCATION AT TIME OF CRASH equals 01-03 or 09,                   | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN should equal 690, 710, 730, 741, 742, 760, 770, 781, 782, 791, 792, 794, 795, or 799.                                                                     |
| PB26            | NON-MOTORIST CONTRIBUTING CIRCUMSTANCES equals 02, and PERSON TYPE equals 06 or 07,                                            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLE should equal 142, 144, 147, 153, 155, 156, 157, 159, 311, 312, 313, 318, 319, or 357.                                                                        |
| PB27            | NON-MOTORIST ACTION/CIRCUMSTANCES equals 05, and PERSON TYPE equals 05, <b>11, 12, or 13</b> ,                                 | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN should equal 410 or 420.                                                                                                                                  |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                         | <b>THEN</b>                                                                                                                                                                |
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| PB28            | NON-MOTORIST ACTION/CIRCUMSTANCES equals 06, and PERSON TYPE equals 05, <b>11, 12, or 13</b> ,                                                    | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN should equal 430 or 440.                                                                                                  |
| PB29            | NON-MOTORIST ACTION/CIRCUMSTANCES equals 04, <b>and does not also equal 03</b> , and PERSON TYPE equals 05, <b>11, 12, or 13</b> ,                | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN should equal 410, 420, 430, 440, or 459.                                                                                  |
| PB30            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 220,                                                                                      | at least one DRIVER PRESENCE must equal 0 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.                        |
| PB31            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLE equals 147, 157, or 357,                                                                            | at least one DRIVER'S VISION OBSCURED BY must equal 06 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.           |
| PB32            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 742,                                                                                      | at least one DRIVER'S VISION OBSCURED BY must not equal 00 or 95 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST. |
| PB33            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLE equals 156,                                                                                         | DRIVER'S VISION OBSCURED BY for the striking vehicle must not equal 06.                                                                                                    |
| PB34            | NUMBER OF FORMS SUBMITTED FOR PERSONS NOT IN MOTOR VEHICLES equals 01, and FIRST HARMFUL EVENT equals 08, and RELATION TO JUNCTION (b) equals 02, | PEDESTRIAN/ BIKE TYPING - CRASH TYPE - PEDESTRIAN must not equal 320, 330, 360, 680, 830, 890, 900, or 910.                                                                |
| PB35            | NUMBER OF FORMS SUBMITTED FOR PERSONS NOT IN MOTOR VEHICLES equals 01, and FIRST HARMFUL EVENT equals 08, and RELATION TO JUNCTION (b) equals 02, | PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN must equal 1.                                                                                                        |
| PB36            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 250,                                                                                      | PERSON TYPE must equal <b>11, 12, or 13</b> .                                                                                                                              |
| PB37            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 311, 312, or 313,                                                                         | at least one NON-MOTORIST ACTION/ CIRCUMSTANCES must equal 08 or 10.                                                                                                       |
| PB38            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 410 or 420,                                                                               | at least one NON-MOTORIST ACTION/ CIRCUMSTANCES must equal 05.                                                                                                             |
| PB39            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 430 or 440,                                                                               | at least one NON-MOTORIST ACTION/ CIRCUMSTANCES must equal 06.                                                                                                             |

| <b>Error ID</b> | <b>IF</b>                                                                             | <b>THEN</b>                                                                                                                                                                                                 |
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| PB40            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLE equals 610,                             | at least one PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 08, 09, or 13 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST. |
| PB41            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLE equals 215,                             | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 08 or 09 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.                   |
| PB42            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLE equals 111, 211, or 212,                | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 11, 16, or 17 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.              |
| PB43            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLE equals 112, 151, 213, 214, 217, or 218, | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 10, 16, or 17 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.              |
| PB44            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 240,                          | EMERGENCY MOTOR VEHICLE USE should equal 2-6 for at least one vehicle.                                                                                                                                      |
| PB45            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 781 or 782,                   | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 11 or 17 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.                 |
| PB46            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLE equals 221-225,                         | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 01 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.                       |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                  | <b>THEN</b>                                                                                                                                                                               |
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| PB49            | PERSON TYPE equals 05, <b>11, 12, or 13</b> , and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 13 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST,          | at least one PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN should equal 211-214 or 219.                                                                                                |
| PB50            | PERSON TYPE equals 05, <b>11, 12, or 13</b> , and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 10-12 or 16 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST, | at least one PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN should equal 461, 465, 469, 510, 781, 782, 791, 792, 794, 795, or 799.                                                      |
| PB52            | PERSON TYPE equals 06 or 07, and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 13 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST,                           | at least one PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLE should equal 610.                                                                                                              |
| PB56            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 791, 792, 794, 795,                                                                                                                                                                | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 10 or 17 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST. |
| PB59            | NON-MOTORIST ACTION/CIRCUMSTANCES equals 16, and PERSON TYPE equals 05, <b>11, 12, or 13</b> ,                                                                                                                                             | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN should equal 459.                                                                                                                        |
| PB60            | PERSON TYPE equals 05, <b>11, 12, or 13</b> , and DRIVER PRESENCE equals 0 for the motor vehicle which strikes the non-motorist,                                                                                                           | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN should equal 220.                                                                                                                        |
| PB61            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 220,                                                                                                                                                                               | DRIVER PRESENCE should equal 0 for the motor vehicle striking the non-motorist.                                                                                                           |
| PB62            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 230,                                                                                                                                                                               | at least one NON-MOTORIST ACTION/ CIRCUMSTANCES must equal 12.                                                                                                                            |
| PB63            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 230,                                                                                                                                                                               | at least one RELATED FACTOR - CRASH LEVEL should equal <b>019</b> or <b>023</b> .                                                                                                         |
| PB66            | PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN equals 1,                                                                                                                                                                            | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 01, 02, 03, 09, or 22.                                                                                                                  |

| <b>Error ID</b> | <b>IF</b>                                                       | <b>THEN</b>                                                                                               |
|-----------------|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| PB67            | PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN equals 2, | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 10, 11, 13, 14, 16, 20-25, 28, 98, 99.                  |
| PB68            | PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN equals 3, | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 10, 11, 13, 14, 16, 20-24, 28, 98, 99.                  |
| PB69            | PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN equals 4, | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 24, 25, 98, 99.                                         |
| PB70            | PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN equals 9, | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 16, 22, 24, 98, or 99.                                  |
| PB71            | PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - BICYCLE equals 1,    | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 01, 02, 03, 09, 16, or 22.                              |
| PB72            | PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - BICYCLE equals 2,    | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 10, 11, 13, 14, 16, 20, 21, 22, 23, 24, 25, 28, 98, 99. |
| PB73            | PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - BICYCLE equals 3,    | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 10, 11, 13, 14, 16, 20, 21, 22, 23, 24, 28, 98, 99.     |
| PB74            | PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - BICYCLE equals 4,    | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 24, 25, 98, 99.                                         |
| PB75            | PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - BICYCLE equals 9,    | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 16, 22, 24, 98, or 99.                                  |
| PB76            | PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION equals 1,         | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 03.                                                     |
| PB77            | PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION equals 2,         | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 01, 02, or 10.                                          |
| PB78            | PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION equals 3,         | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 11, 13.                                                 |
| PB79            | PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION equals 4,         | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 14, 16, 20, 98, or 99.                                  |
| PB80            | PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION equals 5,         | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 21, 23, 24, 98, or 99.                                  |
| PB81            | PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION equals 6,         | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 20, 22, 28, 98, or 99.                                  |
| PB82            | PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION equals 7 or 8,    | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 25.                                                     |
| PB83            | PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION equals 9,         | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 09, 20, 22, 28, 98, or 99.                              |

| <b>Error ID</b> | <b>IF</b>                                                       | <b>THEN</b>                                                                      |
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| PB84            | PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION equals 1,          | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 03, 09, 11, or 13.             |
| PB85            | PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION equals 2,          | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 14, 16, or 20.                 |
| PB86            | PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION equals 3,          | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 01, 02, 10, 21, 23, 98, or 99. |
| PB87            | PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION equals 4,          | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 24.                            |
| PB88            | PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION equals 5 or 6,     | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 25.                            |
| PB89            | PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION equals 8,          | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 20, 22, 28, 98, or 99.         |
| PB90            | PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION equals 9,          | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 22, 98, or 99.                 |
| PB91            | PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN equals 1, | PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION must equal 1, 2, or 9.             |
| PB92            | PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN equals 2, | PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION must equal 3, 4, 5, 6, 7, 8, or 9. |
| PB93            | PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN equals 3, | PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION must equal 2, 3, 4, 5, 6, or 9.    |
| PB94            | PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN equals 4, | PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION must equal 7, 8, or 9.             |
| PB95            | PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN equals 9, | PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION must equal 2, 5, or 9.             |
| PB96            | PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - BICYCLE equals 1,    | PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION must equal 1, 2, 3, 8, or 9.        |
| PB97            | PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - BICYCLE equals 3,    | PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION must equal 1, 2, 3, 4, 8, or 9.     |
| PB98            | PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - BICYCLE equals 4,    | PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION must equal 4, 5, 6, or 9.           |
| PB99            | PEDESTRIAN/ BIKE TYPING - CRASH LOCATION-BICYCLE equals 9,      | PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION must equal 9.                       |



| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                           | <b>THEN</b>                                                                                                                                                                          |
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| PBA0            | PEDESTRIAN/ BIKE TYPING - CRASH TYPE - BICYCLE equals 111, 211, 212, and VEHICLE NUMBER - VEHICLE LEVEL equals VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST,                               | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 11.                                                                                                         |
| PBA1            | PEDESTRIAN/ BIKE TYPING - CRASH TYPE - BICYCLE equals 112, 151, 213, 214, 217, or 218, and VEHICLE NUMBER, VEHICLE LEVEL equals VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST,              | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 10.                                                                                                         |
| PBA2            | PEDESTRIAN SCENARIO equals 1a, 1b, 1c, 1d, 3a, 3b, 3c, 3d, 5a, 5b, 5c, 5d, 7a, 7b, 7c, 7d, 9a, 9b, 9c, 9d, or 11a, 11b, 11c, 11d,                                                                   | PEDESTRIAN POSITION must equal 2.                                                                                                                                                    |
| PBA3            | CRASH LOCATION-PEDESTRIAN equals 1 (At Intersection) and PEDESTRIAN SCENARIO equals 2a, 2b, 2c, 2d, 4a, 4b, 4c, 4d, 6a, 6b, 6c, 6d, 8a, 8b, 8c, 8d, 10a, 10b, 10c, 10d, or 12a, 12b, 12c, 12d,      | PEDESTRIAN POSITION must equal 1, 9.                                                                                                                                                 |
| PBA4            | CRASH LOCATION-PEDESTRIAN equals 2 (Intersection-Related) and PEDESTRIAN SCENARIO equals 2a, 2b, 2c, 2d, 4a, 4b, 4c, 4d, 6a, 6b, 6c, 6d, 8a, 8b, 8c, 8d, 10a, 10b, 10c, 10d, or 12a, 12b, 12c, 12d, | PEDESTRIAN POSITION must equal 3-9.                                                                                                                                                  |
| PBA5            | PEDESTRIAN SCENARIO equals 1a, 1b, 1c, 1d, 2a, 2b, 2c, 2d, 3a, 3b, 3c, 3d, 4a, 4b, 4c, 4d,                                                                                                          | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 01, 02, 03, 04, 06, 08, 09, 12, 13, 14, 15, 16, or 17 for the vehicle number that struck this non-motorist. |
| PBA6            | PEDESTRIAN SCENARIO equals 5a, 5b, 5c, 5d, 6a, 6b, 6c, 6d, 7a, 7b, 7c, 7d, 8a, 8b, 8c, 8d,                                                                                                          | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 10 for the vehicle number that struck this non-motorist.                                                    |
| PBA7            | PEDESTRIAN SCENARIO equals 9a, 9b, 9c, 9d, 10a, 10b, 10c, 10d, 11a, 11b, 11c, 11d, 12a, 12b, 12c, 12d,                                                                                              | PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 11 for the vehicle number that struck this non-motorist.                                                    |
| PBA9            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 741,                                                                                                                                        | NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must not equal 01.                                                                                                                           |
| PBB1            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 742,                                                                                                                                        | NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must not equal 11.                                                                                                                           |

| <b>Error ID</b> | <b>IF</b>                                                        | <b>THEN</b>                                                                                                                                                                                                 |
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| PBB2            | CRASH LOCATION - PEDESTRIAN equals 1 or 2,                       | PEDESTRIAN INITIAL DIRECTION OF TRAVEL must equal 1-4, or 9, MOTORIST MANEUVER must equal 1-3, or 9, INTERSECTION LEG must equal 1, 2, or 9, and MOTORIST INITIAL DIRECTION OF TRAVEL must equal 1-4, or 9. |
| PBB3            | PEDESTRIAN/BIKE TYPING-PEDESTRIAN CRASH TYPE equals 341 or 342,  | RELATED FACTORS - CRASH LEVEL should equal 031.                                                                                                                                                             |
| PBB4            | PEDESTRIAN/ BIKE TYPING - CRASH LOCATION -BICYCLE equals 1       | NON-MOTORIST ACTION/CIRCUMSTANCES should not equal 05, 06, or 16                                                                                                                                            |
| PBB5            | PEDESTRIAN/ BIKE TYPING - CRASH LOCATION -PEDESTRIAN equals 1    | NON-MOTORIST ACTION/CIRCUMSTANCES should not equal 05, 06, or 16                                                                                                                                            |
| PBC0            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLE equals 250,        | at least one NON-MOTORIST CONTRIBUTING CIRCUMSTANCES should equal 09.                                                                                                                                       |
| PBC1            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 410,     | at least one NON-MOTORIST CONTRIBUTING CIRCUMSTANCES should equal 09.                                                                                                                                       |
| <b>PBC2</b>     | <b>PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLE equals 143,</b> | <b>TRAFFIC CONTROL DEVICE for the striking vehicle must equal 20, 21, 28, or 29.</b>                                                                                                                        |

## NM10 - Non-Motorist Location at Time of Crash

**FORMAT:** 2 numeric

**SAS NAME:** Person.LOCATION

**ELEMENT VALUES:**

| Codes | Attributes                                                                       |
|-------|----------------------------------------------------------------------------------|
| 01    | <a href="#">At Intersection - In Marked Crosswalk</a>                            |
| 02    | <a href="#">At Intersection - Unmarked/Unknown if Marked Crosswalk</a>           |
| 03    | <a href="#">At Intersection - Not in Crosswalk</a>                               |
| 09    | <a href="#">At Intersection - Unknown Location</a>                               |
| 10    | <a href="#">Not At Intersection - In Marked Crosswalk</a>                        |
| 11    | <a href="#">Not At Intersection - On Roadway, Not in Marked Crosswalk</a>        |
| 13    | <a href="#">Not At Intersection - On Roadway, Crosswalk Availability Unknown</a> |
| 14    | <a href="#">Parking Lane/Zone</a>                                                |
| 16    | <a href="#">Bicycle Lane</a>                                                     |
| 20    | <a href="#">Shoulder/Roadside</a>                                                |
| 21    | <a href="#">Sidewalk</a>                                                         |
| 22    | <a href="#">Median/Crossing Island</a>                                           |
| 23    | <a href="#">Driveway Access</a>                                                  |
| 24    | <a href="#">Shared-Use Path</a>                                                  |
| 25    | <a href="#">Non-Trafficway Area</a>                                              |
| 28    | <a href="#">Other</a>                                                            |
| 98    | <a href="#">Not Reported</a>                                                     |
| 99    | <a href="#">Reported as Unknown Location</a>                                     |

**Definition:** This element identifies the location of the non-motorist with respect to the roadway at the time of the crash.

**Remarks:** “At intersection” means: The person is **on a roadway** (travel lane) either **(1)** in the intersection, **(2)** in an area between a crosswalk and the perimeter of the intersection, or **(3)** in a crosswalk (whether marked or unmarked) adjacent to an intersection. If there are no crosswalks, “at intersection” means only the intersection, which is the area embraced within the prolongation of the lateral curb lines or, if none, the lateral boundary lines of the roadways. *See the [Coding Guide: Intersections](#) for helpful information.*

**Crosswalk** is **(1)** that part of a roadway at an intersection included within the connections of the lateral lines of the sidewalks on opposite sides of the highway measured from the curbs or, in the absence of curbs, from the edges of the traversable roadway, and in the absence of a sidewalk on one side of the highway, that part of the highway included within the extension of the lateral line of the existing

sidewalk to the side of the highway without the sidewalk, with such extension forming a right angle to the centerline of the highway; or **(2)** Any portion of a roadway at an intersection or elsewhere distinctly indicated for pedestrian crossing by lines or other markings on the surface of the roadway placed in accordance with the provisions in the [Manual of Uniform Traffic Control Devices](#).

**Intersection** is an area that **(1)** contains a crossing or connection of two or more roadways not classified as driveway access **(2)** is embraced within the prolongation of the lateral curb lines, or, if none, the lateral boundary lines of the roadways.

**01 (At Intersection-In Marked Crosswalk)** is used when a person is in that portion of a roadway at an intersection that is distinctly indicated for pedestrian crossing by lines or other markings on the surface of the roadway. This attribute includes shared-use path crossings. This does not include crosswalks located in mid-blocks.

**02 (At Intersection-In Unmarked/Unknown if Marked Crosswalk)** is used when the person is “at intersection” **within the prolongations of the sidewalk edges** but there are no lines or other markings on the surface of the roadway (unmarked crosswalk). There must be a sidewalk or improved path present on one side of the leg of the trafficway that this person is crossing for there to be an unmarked crosswalk. If there are no sidewalks, there are no crosswalks. If it is unknown if the crosswalk is marked or unmarked, default to unmarked.

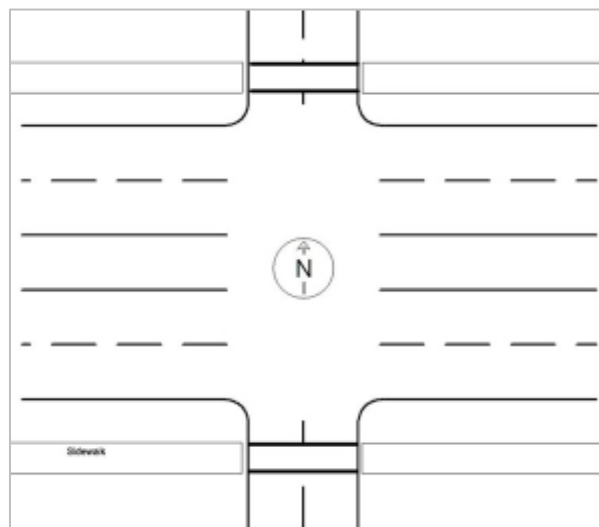


*Figure 28: Intersection With Only Two Crosswalks*

In a four-way intersection with sidewalks running along the East/West trafficway and no sidewalks on the North/South trafficway, the intersection area would only have two crosswalks. The two that allow crossing of the North/South trafficway. (See [Figure 28](#) above)

**03 (At Intersection-Not in Crosswalk)** refers to a person in a travel lane that is not using an available crosswalk or there is not a crosswalk at this location.

- For people other than pedalcyclists in a marked bicycle lane or an unmarked prolongation of the bicycle lane in an intersection, use **03 (At Intersection-Not in Crosswalk)**.
- For pedalcyclists in a marked bicycle lane or an unmarked prolongation of the bicycle lane in an intersection, use [16 \(Bicycle Lane\)](#).

- If you do not know if there is a bike lane through the intersection, then default to **03 (At Intersection-Not in Crosswalk)**.

**09 (At Intersection-Unknown Location)** is used when a person is known to be at an intersection, but it cannot be determined whether the person was in a crosswalk area (marked or unmarked) or the intersection.

**10 (Not at Intersection-In Marked Crosswalk)** is used when a person is in the portion of the roadway, not at an intersection, that is distinctly indicated for pedestrian crossing by lines or other markings on the surface of the roadway (i.e., the case identifies a mid-block crosswalk exists and the person is using it.). This attribute includes shared-use path crossings.

**11 (Not at Intersection-On Roadway, Not in Marked Crosswalk)** is used when a person is in the portion of the roadway, not at an intersection, and either:

1. the case identifies a mid-block crosswalk exists and the person is not using it (e.g., the person is jaywalking when a mid-block crosswalk is available),
2. there is not a crosswalk at this location, or
3. the person is crossing at a location where a mid-block crosswalk would not be expected to exist (e.g., a rural roadway or interstate).

**13 (Not at Intersection - On Roadway, Crosswalk Availability Unknown)** is used when it cannot be determined if a crosswalk was available (e.g., there is some information (possibly conflicting) that leads you to believe that there may be a mid-block crosswalk at this location, but there is not sufficient information about the location to be able to make a determination).

**14 (Parking Lane/Zone)** refers to a person in an area on the roadway, or next to the roadway, on which parking is permitted in marked or unmarked spaces. This includes curbside and edge of roadway parking (for example, legal residential parking, city-street parking, etc.). Sometimes a strip of roadway can be designated for parking at certain hours of the day (parking lane) and for regular travel at other hours (travel lane). This code should NOT be used during hours when parking is NOT permitted (see [11 \(Not at Intersection-On Roadway, Not in Marked Crosswalk\)](#)).

**16 (Bicycle Lane)** is used when a person is adjacent to travel lanes in a bikeway that has been designated for preferential or exclusive use by pedalcyclists through striping, signage, or pavement markings.

- For people other than pedalcyclists in a marked bicycle lane or an unmarked prolongation of the bicycle lane in an intersection, use [03 \(At Intersection-Not in Crosswalk\)](#).
- For pedalcyclists in a marked bicycle lane or an unmarked prolongation of the bicycle lane in an intersection use **16 (Bicycle Lane)**.
- When at an intersection, if you do not know if there is a bike lane through the intersection, then default to [03 \(At Intersection-Not in Crosswalk\)](#).

**20 (Shoulder/Roadside)** - Shoulder is that part of a trafficway contiguous with the roadway for emergency use, for accommodation of stopped motor vehicles, and lateral support of the roadway structure. Roadside is the outermost part of the trafficway from the property line or other boundary in to the edge of the first road. For people on a sidewalk on the roadside select **21 (Sidewalk)**.

**21 (Sidewalk)** is any improved surface primarily constructed for use by pedestrians. Do not select this attribute for sidewalks within a [23 \(Driveway Access\)](#), **22 (Median/Crossing Island)**, [25 \(Non-Trafficway Area\)](#).

**22 (Median/Crossing Island)** is used when a person is in a median or crossing island. Median is an area of trafficway between parallel roads separating travel in opposite directions. A median should be four or more feet wide. Crossing Island is a cement or grassy area in the middle of a trafficway. This attribute excludes crosswalk areas that pass through a median, crossing or traffic island (i.e., select [01 \(At Intersection-In Marked Crosswalk\)](#), [02 \(At Intersection-In Unmarked/Unknown if Marked Crosswalk\)](#), or [10 \(Not at Intersection-In Marked Crosswalk\)](#).)

**23 (Driveway Access)** is a portion of the trafficway at the end of a driveway providing access to property adjacent to a trafficway. This includes the driveway crossing that is the portion of the driveway access where a sidewalk or shared-use path crosses over the driveway access.

**24 (Shared-Use Path)** is used when a person on a bikeway physically separated from motorized vehicular traffic by an open space or barrier and either within the highway right-of-way or an independent right-of-way. Shared-Use Paths will also be used by pedestrians, skaters, wheelchairs, joggers, and other non-motorized users. Shared-use path **crossings** are coded under [01 \(At Intersection-In Marked Crosswalk\)](#) or [10 \(Not At Intersection-In Marked Crosswalk\)](#).

**25 (Non-Trafficway Area)** is not physically located on any land way open to the public as a matter of right or custom for moving people or property from one place to another. For example: a person in a parking lot, a yard, a person in a closed portion of a work zone, or in a house.

**28 (Other)** is used when a person is at a location stated in the case material that is not reflected in the listed attributes for this data element. These would be people within the trafficway (i.e., not element value **25 (Non-Trafficway Area)**). Examples include central islands of rotary intersections, gores, separators, or directional/channelizing islands.

If a police crash report data element is coded with the attribute “Other” but the officer does not specify what this refers to:

1. Code **28 (Other)** if the police crash report attribute choices can be matched to or include all the attributes in FARS/CRSS.
2. Code **98 (Not Reported)** if the police crash report choices cannot be matched to or include all the attributes in FARS/CRSS.

**98 (Not Reported)** *Check to see if [99 \(Reported as Unknown Location\)](#) is more appropriate for the situation.*

If a State’s crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks is NOT considered “**Not Reported**.”

Code **98 (Not Reported)** in these two situations:

1. No field or coding block exists on the State’s crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State’s crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the

State's crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

**99 (Reported as Unknown Location)** is used when the case material states that the location of the non-motorist was unknown at the time of the crash.

**Consistency Checks** [\(See Section 400\)](#):

| <b>Error ID</b> | <b>IF</b>                                                     | <b>THEN</b>                                                                                  |
|-----------------|---------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| 1P0H            | NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21,         | NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must not equal 02-04, 07-10, 15, 16, 20.             |
| 1P1F            | PERSON TYPE equals 04, 05, 10, <b>11, 12, 13</b> , or 19,     | NON-MOTORIST LOCATION AT TIME OF CRASH should not equal 16 for this person.                  |
| 1P1H            | NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 22,         | NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must not equal 01, 02, 04, 07, 08, 11, 15, 20.       |
| 1P2F            | PERSON TYPE equals 10,                                        | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 25.                                        |
| 1P2H            | NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 23,         | NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must not equal 12, 15.                               |
| 1P3H            | NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 24,         | NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must not equal 01, 03, 04, 10, 11.                   |
| 1P4H            | NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 25,         | NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must not equal 01-04, 10, 11, 12, 15-17, 20.         |
| 1P5H            | NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 28, 98, 99, | NON-MOTORIST CONTRIBUTING CIRCUMSTANCES should not equal 01, 03, 04, 10, 11, 12, 15, 16, 20. |
| 1P6H            | NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 16,         | NON-MOTORIST CONTRIBUTING CIRCUMSTANCES should not equal 04, 16.                             |
| 1P7H            | NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21,         | NON-MOTORIST CONTRIBUTING CIRCUMSTANCES should not equal 01, 05, 11, 12, 17.                 |
| 1P8H            | NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 23,         | NON-MOTORIST CONTRIBUTING CIRCUMSTANCES should not equal 02.                                 |
| 1P9G            | NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 20,         | NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must not equal 02-04, 15.                            |
| 1P9H            | NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 24,         | NON-MOTORIST CONTRIBUTING CIRCUMSTANCES should not equal 02, 05, 12, 15, 16.                 |

| <b>Error ID</b> | <b>IF</b>                                                                                | <b>THEN</b>                                                                                                                                               |
|-----------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1PH0            | NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 25,                                    | NON-MOTORIST CONTRIBUTING CIRCUMSTANCES should not equal 07-09.                                                                                           |
| 1PJ1            | NON-MOTORIST LOCATION AT TIME OF CRASH equals 16,                                        | the PERSON TYPE for this person should equal 06 or 07.                                                                                                    |
| 1PK2            | NON-MOTORIST LOCATION AT TIME OF CRASH equals 21,                                        | SIDEWALK PRESENT must equal 1.                                                                                                                            |
| 1PK3            | NON-MOTORIST LOCATION AT TIME OF CRASH equals 01 or 10,                                  | MARKED CROSSWALK PRESENT must equal 1.                                                                                                                    |
| 440F            | FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 01,             | there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 01-03, 09-11, 13, 16, 23, 98 or 99. |
| 450F            | FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 07,             | there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 14.                                 |
| 460F            | FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 02,             | there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 02, 20.                             |
| 470F            | FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 03, 08, 10, 12, | there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 20, 22, 28, 98, 99.                 |
| 480F            | FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 04, 06,         | there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 09, 16, 20, 21, 24, 25, 28, 98, 99. |
| 490F            | FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 05,             | there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 24, 25.                             |
| 4A0F            | FIRST HARMFUL EVENT is 08, 09, 15, or 49 and RELATION TO TRAFFICWAY is 12,               | at least one NON-MOTORIST LOCATION AT TIME OF CRASH must equal 22 or 28.                                                                                  |
| 530F            | FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 99,             | there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 09, 98, 99.                         |



| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                        | <b>THEN</b>                                                                                                                            |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| 531F            | FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 11,                                                                                                                                                                                     | there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 11.              |
| A61G            | the FIRST HARMFUL EVENT equals 08, and PERSON TYPE equals 05, and NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, 22, 24, 25, 28, and the VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is involved in the FIRST HARMFUL EVENT,                    | CRASH TYPE should not equal 13 for this vehicle.                                                                                       |
| A61H            | the FIRST HARMFUL EVENT equals 09, and PERSON TYPE equals 06, 07, and NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, 22, 24, 25, 28, and the VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is involved in the FIRST HARMFUL EVENT,                | CRASH TYPE should not equal 13 for this vehicle.                                                                                       |
| A61J            | the FIRST HARMFUL EVENT equals 15, and PERSON TYPE equals <b>11, 12, or 13</b> , and NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, 22, 24, 25, 28, and the VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is involved in the FIRST HARMFUL EVENT, | CRASH TYPE should not equal 13 for this vehicle.                                                                                       |
| A61K            | the FIRST HARMFUL EVENT equals 49, and PERSON TYPE equals 04, and NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, 22, 24, 25, 28, and the VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is involved in the FIRST HARMFUL EVENT,                    | CRASH TYPE should not equal 13 for this vehicle.                                                                                       |
| PB24            | PERSON TYPE equals 05, <b>11, 12, or 13</b> , and NON-MOTORIST LOCATION AT TIME OF CRASH equals 14, 16, 20, 21, 22, 24, or 25,                                                                                                                                   | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN should equal 230, 320, 330, 410, 420, 430, 440, 459, 510, 520, 590, 830, or 890.      |
| PB25            | PERSON TYPE equals 05, <b>11, 12, or 13</b> , and NON-MOTORIST LOCATION AT TIME OF CRASH equals 01-03 or 09,                                                                                                                                                     | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN should equal 690, 710, 730, 741, 742, 760, 770, 781, 782, 791, 792, 794, 795, or 799. |
| PB66            | PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN equals 1,                                                                                                                                                                                                  | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 01, 02, 03, 09, or 22.                                                               |

| <b>Error ID</b> | <b>IF</b>                                                       | <b>THEN</b>                                                                                               |
|-----------------|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| PB67            | PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN equals 2, | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 10, 11, 13, 14, 16, 20-25, 28, 98, 99.                  |
| PB68            | PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN equals 3, | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 10, 11, 13, 14, 16, 20-24, 28, 98, 99.                  |
| PB69            | PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN equals 4, | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 24, 25, 98, 99.                                         |
| PB70            | PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN equals 9, | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 16, 22, 24, 98, or 99.                                  |
| PB71            | PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - BICYCLE equals 1,    | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 01, 02, 03, 09, 16, or 22.                              |
| PB72            | PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - BICYCLE equals 2,    | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 10, 11, 13, 14, 16, 20, 21, 22, 23, 24, 25, 28, 98, 99. |
| PB73            | PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - BICYCLE equals 3,    | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 10, 11, 13, 14, 16, 20, 21, 22, 23, 24, 28, 98, 99.     |
| PB74            | PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - BICYCLE equals 4,    | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 24, 25, 98, 99.                                         |
| PB75            | PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - BICYCLE equals 9,    | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 16, 22, 24, 98, or 99.                                  |
| PB76            | PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION equals 1,         | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 03.                                                     |
| PB77            | PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION equals 2,         | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 01, 02, or 10.                                          |
| PB78            | PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION equals 3,         | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 11, 13.                                                 |
| PB79            | PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION equals 4,         | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 14, 16, 20, 98, or 99.                                  |
| PB80            | PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION equals 5,         | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 21, 23, 24, 98, or 99.                                  |
| PB81            | PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION equals 6,         | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 20, 22, 28, 98, or 99.                                  |
| PB82            | PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION equals 7 or 8,    | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 25.                                                     |
| PB83            | PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION equals 9,         | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 09, 20, 22, 28, 98, or 99.                              |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                           | <b>THEN</b>                                                                      |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| PB84            | PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION equals 1,                                                                                                                              | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 03, 09, 11, or 13.             |
| PB85            | PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION equals 2,                                                                                                                              | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 14, 16, or 20.                 |
| PB86            | PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION equals 3,                                                                                                                              | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 01, 02, 10, 21, 23, 98, or 99. |
| PB87            | PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION equals 4,                                                                                                                              | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 24.                            |
| PB88            | PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION equals 5 or 6,                                                                                                                         | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 25.                            |
| PB89            | PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION equals 8,                                                                                                                              | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 20, 22, 28, 98, or 99.         |
| PB90            | PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION equals 9,                                                                                                                              | NON-MOTORIST LOCATION AT TIME OF CRASH must equal 22, 98, or 99.                 |
| PBA8            | NUMBER OF FORMS SUBMITTED FOR PERSONS NOT IN MOTOR VEHICLES equals 1, and the FIRST HARMFUL EVENT equals 08, 09, or 15, and NON-MOTORIST LOCATION AT TIME OF CRASH equals 01 or 02; | RELATION TO JUNCTION (SPECIFIC LOCATION) must equal 3.                           |
| U150            | UNLIKELY: NON-MOTORIST LOCATION AT TIME OF CRASH equals 16, 25.                                                                                                                     | --                                                                               |

## NM11 - Non-Motorist Action/Circumstances

**FORMAT:** 2 numeric. Select All That Apply.

**SAS NAME:** *NMPrior.NMACTION*

**ELEMENT VALUES:**

| Codes | Attributes                                                                             |
|-------|----------------------------------------------------------------------------------------|
| 01    | <a href="#">Going to or from School (K-12)</a>                                         |
| 02    | <a href="#">Waiting to Cross Roadway</a>                                               |
| 03    | <a href="#">Crossing Roadway</a>                                                       |
| 04    | <a href="#">Jogging/Running</a>                                                        |
| 05    | <a href="#">Movement Along Roadway with Traffic (in or Adjacent to Travel Lane)</a>    |
| 06    | <a href="#">Movement Along Roadway Against Traffic (in or Adjacent to Travel Lane)</a> |
| 16    | <a href="#">Movement Along Roadway - Direction Unknown</a>                             |
| 08    | <a href="#">In Roadway - Other (Working, Playing, etc.)</a>                            |
| 09    | <a href="#">Stationary and Adjacent to Roadway (e.g., Shoulder, Median, Sidewalk)</a>  |
| 10    | <a href="#">Working in Trafficway (Incident Response)</a>                              |
| 11    | <a href="#">Entering/Exiting Parked or Stopped Vehicle</a>                             |
| 12    | <a href="#">Disabled Vehicle Related (Working on, Pushing, Leaving/Approaching)</a>    |
| 14    | <a href="#">Other (Specify:)</a>                                                       |
| 98    | <a href="#">Not Reported</a>                                                           |
| 99    | <a href="#">Reported as Unknown</a>                                                    |

**Definition:** This element describes the action(s) of the non-motorist at the time of their involvement in the crash.

**Remarks:** As a “Select All That Apply” element, attributes can be used in combination.

**01 (Going to or from School [K-12])** includes person age 5-18 or an adult supervising people age 5 - 18 going to or from a school for any reason. Examples are going to a school dance, sports practice, or extracurricular activities.

**02 (Waiting to Cross Roadway)** is used when the non-motorist is near the curb or the roadway edge waiting to cross a roadway anywhere along the roadway. If the pedestrian **began to cross the roadway**, stopped, and then was struck select **03 (Crossing the Roadway)**. For people adjacent to the roadway where their **intent to cross is not identified**, use [09 \(Stationary and Adjacent to Roadway \[e.g., Shoulder, Median, Sidewalk\]\)](#).

**03 (Crossing Roadway)** is used when the non-motorist was moving across or in the travel lanes with the goal of crossing the roadway.

**04 (Jogging/Running)** is used when the pedestrian was running or jogging.

**05 (Movement Along Roadway with Traffic [In or Adjacent to Travel Lane])** is used when the non-motorist was moving in the same direction as the flow of traffic, either in the travel lane or adjacent to it (e.g., jogging or walking on shoulder or roadside). This also includes situations where the person's action/intent was traveling along the roadway. For example, a person stopped momentarily when they were struck (e.g., to tie shoes, talk on mobile phone) or someone that moved out into the path of a vehicle to avoid an obstacle along the roadside. This may include the roadway edge, shoulder (paved or unpaved), sidewalk, roadside, median or driveway access, etc. *Note: This excludes At Intersection location where the non-motorist is crossing. See [03 \(Crossing Roadway\)](#).*

**06 (Movement Along Roadway Against Traffic [In or Adjacent to Travel Lane])** is used when the non-motorist was moving in the opposite direction of the flow of traffic (facing oncoming vehicles), either in the travel lane or adjacent to it (e.g., jogging or walking on shoulder or roadside). This also includes situations where the person's action/intent was traveling along the roadway. For example, a person stopped momentarily when they were struck (e.g., to tie shoes, talk on mobile phone) or someone that moved out into the path of a vehicle to avoid an obstacle along the roadside. This may include the roadway edge, shoulder (paved or unpaved), sidewalk, roadside, median, or driveway access, etc. *Note: This excludes At Intersection location where the non-motorist is crossing. See [03 \(Crossing Roadway\)](#).*

**16 (Movement Along Roadway - Direction Unknown)** is used when the non-motorist was moving in or adjacent to a travel lane but their direction with respect to the flow of traffic is unknown (e.g., jogging or walking on shoulder or roadside). This may include the roadway edge, shoulder (paved or unpaved), sidewalk, roadside, median, or driveway access, etc. *Note: This excludes At Intersection location where the non-motorist is crossing. See [03 \(Crossing Roadway\)](#).*

**08 (In Roadway - Other [Working, Playing, etc.])** is used when the non-motorist was in the roadway but not crossing it. Examples include conducting maintenance, playing in the roadway, operating a snow blower or lawn care equipment, or lying in the roadway. For cases involving a non-motorist working within a closed portion of a work zone area, use attribute [14 \(Other \[Specify:\]\)](#).

**09 (Stationary and Adjacent to Roadway [e.g., Shoulder, Median, Sidewalk])** is used when the non-motorist was not moving and not in the roadway but in an area immediately adjacent to the roadway, such as a median, shoulder, sidewalk, pedestrian refuge, traffic island, etc.

**10 (Working in Trafficway [Incident Response])** is used when the non-motorist was in the roadway as part of an official response to an incident, such as a firefighter moving between an emergency vehicle and a crash involved vehicle. Also see [RELATED FACTORS - PERSON \(NOT A MOTOR VEHICLE OCCUPANT\) LEVEL](#) codes [087 \(Police or Law Enforcement Officer\)](#), [094 \(Emergency Medical Services Personnel\)](#), [095 \(Fire Personnel\)](#), [096 \(Tow Operator\)](#), or [097 \(Transportation\)](#) to see if any apply.

**11 (Entering/Exiting Parked/Stopped Vehicle)** is used when a pedestrian was adjacent to a stopped or parked vehicle and in the process of getting into or had just exited that stopped or parked vehicle. This does not include crashes involving pedestrians performing other actions such as crossing the roadway to/from a parked vehicle or other movements that occurred after the pedestrian exited the vehicle.

**12 (Disabled Vehicle Related [Working on, Pushing, Leaving/Approaching])** is used when the pedestrian was outside of a disabled *or inoperative* vehicle for any of a number of reasons, including working on it, pushing it, leaving it, or approaching it. *For vehicles in a previous crash, it is not necessary to know the damage severity.*

**14 (Other [Specify:])** is used when the actions or circumstances stated in the case material does not reflect the listed attributes for this data element. This includes non-motorists working within a closed portion of a work zone area.

**Note:** For attributes with a “Specify:” designation, a fill-in text box will open in **RBIS**. This text box should be used to provide additional detail about the attribute selection. Please include a specific reason for this selection.

**98 (Not Reported)** Check to see if **99 (Reported as Unknown)** is more appropriate for the situation.

If a State’s crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered “**Not Reported**.”

Code **98 (Not Reported)** in these two situations:

1. No field or coding block exists on the State’s crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State’s crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State’s crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

**99 (Reported as Unknown)** is used when the case material states that the action or circumstances of the non-motorist prior to the crash was unknown.

**Consistency Checks** ([See Section 400](#)):

| <b>Error ID</b> | <b>IF</b>                                            | <b>THEN</b>                                                                                                                                 |
|-----------------|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| 1P1G            | PERSON TYPE equals 19,                               | NON-MOTORIST ACTION/CIRCUMSTANCES should not equal 11, 12.                                                                                  |
| 1P3F            | PERSON TYPE (NM7) equals 10,                         | NON-MOTORIST ACTION/CIRCUMSTANCES (NM11) must not equal 01-12, 16, and NON-MOTORIST CONTRIBUTING CIRCUMSTANCES (NM12) must not equal 01-20. |
| 1P4F            | PERSON TYPE equals 04,                               | NON-MOTORIST ACTION/CIRCUMSTANCES must not equal 04, 12.                                                                                    |
| 1P5F            | PERSON TYPE equals 06, <b>07, 11, 12, 13, or</b> 19, | NON-MOTORIST ACTION/CIRCUMSTANCES must not equal 04.                                                                                        |
| 1P7F            | PERSON TYPE equals 04,                               | NON-MOTORIST ACTION/CIRCUMSTANCES should not equal 10, 11.                                                                                  |

| <b>Error ID</b> | <b>IF</b>                                                                                                                          | <b>THEN</b>                                                                                                      |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| 1P8F            | PERSON TYPE equals 06, 07,                                                                                                         | NON-MOTORIST ACTION/CIRCUMSTANCES should not equal 10-12.                                                        |
| 1P9F            | PERSON TYPE equals <b>11, 12, or 13</b> ,                                                                                          | NON-MOTORIST ACTION/CIRCUMSTANCES should not equal 11.                                                           |
| 4X2G            | any NON-MOTORIST ACTION/CIRCUMSTANCES equals 08,                                                                                   | the NON-MOTORIST ACTION/CIRCUMSTANCES must not also equal 03 for this person.                                    |
| <b>4X3G</b>     | <b>any NON-MOTORIST ACTIONS CIRCUMSTANCES equals 03,</b>                                                                           | <b>NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must not equal 04 for this Person (Not a Motor Vehicle Occupant).</b> |
| 4X5F            | NON-MOTORIST ACTION/CIRCUMSTANCES <b>equals 04 and does not also equal 03,</b>                                                     | NON-MOTORIST ACTION/CIRCUMSTANCES <b>should also equal</b> 05, 06, or 16.                                        |
| 4X7F            | any NON-MOTORIST ACTION/CIRCUMSTANCES equals 98 or 99,                                                                             | only that one code and no other must be coded for this person.                                                   |
| PB15            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 910,                                                                       | at least one NON-MOTORIST ACTION/CIRCUMSTANCES must equal 03.                                                    |
| PB19            | NON-MOTORIST ACTION/CIRCUMSTANCES equals 08,                                                                                       | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN must not equal 510, 520, 590, 830, or 890.                      |
| PB20            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 510, 520, or 590,                                                          | at least one NON-MOTORIST ACTION/CIRCUMSTANCES must equal 02.                                                    |
| PB27            | NON-MOTORIST ACTION/CIRCUMSTANCES equals 05, and PERSON TYPE equals 05, <b>11, 12, or 13</b> ,                                     | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN should equal 410 or 420.                                        |
| PB28            | NON-MOTORIST ACTION/CIRCUMSTANCES equals 06, and PERSON TYPE equals 05, <b>11, 12, or 13</b> ,                                     | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN should equal 430 or 440.                                        |
| PB29            | NON-MOTORIST ACTION/CIRCUMSTANCES equals 04, <b>and does not also equal 03</b> , and PERSON TYPE equals 05, <b>11, 12, or 13</b> , | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN should equal 410, 420, 430, 440, or 459.                        |
| PB37            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 311, 312, or 313,                                                          | at least one NON-MOTORIST ACTION/CIRCUMSTANCES must equal 08 or 10.                                              |
| PB38            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 410 or 420,                                                                | at least one NON-MOTORIST ACTION/CIRCUMSTANCES must equal 05.                                                    |

| <b>Error ID</b> | <b>IF</b>                                                                                       | <b>THEN</b>                                                                               |
|-----------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| PB39            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 430 or 440,                             | at least one NON-MOTORIST ACTION/ CIRCUMSTANCES must equal 06.                            |
| PB58            | NON-MOTORIST ACTION/CIRCUMSTANCES must not equal 05, 06, or 16 in combination.                  | --                                                                                        |
| PB59            | NON-MOTORIST ACTION/ CIRCUMSTANCES equals 16, and PERSON TYPE equals 05, <b>11, 12, or 13</b> , | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN should equal 459.                        |
| PB62            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 230,                                    | at least one NON-MOTORIST ACTION/ CIRCUMSTANCES must equal 12.                            |
| PB64            | any NON-MOTORIST ACTION/ CIRCUMSTANCES equals 03 or 09,                                         | the NON-MOTORIST ACTION/ CIRCUMSTANCES must not also equal 05, 06, or 16 for this person. |
| PBB4            | PEDESTRIAN/ BIKE TYPING - CRASH LOCATION -BICYCLE equals 1,                                     | NON-MOTORIST ACTION/CIRCUMSTANCES should not equal 05, 06, or 16.                         |
| PBB5            | PEDESTRIAN/ BIKE TYPING - CRASH LOCATION -PEDESTRIAN equals 1,                                  | NON-MOTORIST ACTION/CIRCUMSTANCES should not equal 05, 06, or 16.                         |
| PBB6            | PEDESTRIAN CRASH GROUP equals 750 or 790                                                        | NM ACTION/CIRCUMSTANCES must not equal 08 (In Roadway – Other [Working, Playing, etc.]).  |
| PBB7            | PEDESTRIAN CRASH GROUP equals 750 or 790                                                        | at least one NM ACTION/CIRCUMSTANCES should equal 03 (Crossing Roadway).                  |



## NM12 - Non-Motorist Contributing Circumstances

**FORMAT:** 2 numeric. Select All That Apply.

**SAS NAME:** *NMCrash.NMCC*

**ELEMENT VALUES:**

| Codes | Attributes                                                                                                            |
|-------|-----------------------------------------------------------------------------------------------------------------------|
| 00    | <a href="#">None Noted</a>                                                                                            |
| 01    | <a href="#">Dart-Out - Visual Obstruction Noted</a>                                                                   |
| 11    | <a href="#">Dash - Run, No Visual Obstruction Noted</a>                                                               |
| 02    | <a href="#">Failure to Yield Right-of-Way</a>                                                                         |
| 03    | <a href="#">Failure to Obey Traffic Signs, Signals, or Officer</a>                                                    |
| 04    | <a href="#">In Roadway Improperly (Standing, Lying, Working, Playing, etc.)</a>                                       |
| 05    | <a href="#">Entering/Exiting Parked or Stopped Vehicle</a>                                                            |
| 06    | <a href="#">Inattentive (Talking, Eating, etc.)</a>                                                                   |
| 07    | <a href="#">Improper Turn/Merge</a>                                                                                   |
| 08    | <a href="#">Improper Passing</a>                                                                                      |
| 09    | <a href="#">Wrong-Way Riding or Walking</a>                                                                           |
| 10    | <a href="#">Riding on Wrong Side of Road</a>                                                                          |
| 12    | <a href="#">Improper Crossing of Roadway or Intersection (Jaywalking)</a>                                             |
| 13    | <a href="#">Failing to Have Lights on When Required</a>                                                               |
| 14    | <a href="#">Operating Without Required Equipment</a>                                                                  |
| 15    | <a href="#">Improper or Erratic Lane Changing</a>                                                                     |
| 16    | <a href="#">Failure to Keep in Proper Lane or Running Off Road</a>                                                    |
| 17    | <a href="#">Making Improper Entry to or Exit from Trafficway</a>                                                      |
| 18    | <a href="#">Operating in Other Erratic, Reckless, Careless, or Negligent Manner</a>                                   |
| 19    | <a href="#">Not Visible (Dark Clothing, No Lighting, etc.)</a>                                                        |
| 20    | <a href="#">Passing with Insufficient Distance or Inadequate Visibility or Failing to Yield to Overtaking Vehicle</a> |
| 21    | <a href="#">Other (Specify:)</a>                                                                                      |
| 99    | <a href="#">Reported as Unknown</a>                                                                                   |

**Definition:** This element describes the action(s) and/or circumstances of the non-motorist that law enforcement indicated may have contributed to the crash.

**Remarks:** As a “Select All That Apply” element, attributes can be used in combination.

**00 (None Noted)** is used when no contributing circumstances or improper actions are noted by the officer for this non-motorist. “Not Reported” is coded here. If this attribute is used no other attribute may be selected.

**01 (Dart-Out - Visual Obstruction Noted)** is used when a person entered the roadway and was involved in a collision with a vehicle where the driver’s view of the person was blocked until an instant before impact. A dart-out can only occur if there is some documented visual obstruction (*i.e., DRIVER’S VISION OBSCURED BY must not equal 00 (No Obstruction Noted), 95 (No Driver Present/Unknown if Driver Present), or 99 (Reported as Unknown) for the driver of the vehicle that struck this Non-Motorist*).

**11 (Dash - Run, No Visual Obstruction Noted)** is used when a person ran into the roadway and was involved in a collision with a vehicle. There is no mention in the case material that the driver’s view of the person was obstructed. The case material should state that the person **ran**.

**Examples of proper use include:**

- A person’s activity prior to the crash is jogging or running, but just prior to the impact the non-motorist darted into the roadway.
- Children seen playing in a front yard, who suddenly run into the road to retrieve an object associated with their play (e.g., a ball).

**02 (Failure to Yield Right-of-Way)** is used when a person fails to yield the right-of-way as indicated in the case material. A citation need not be issued, only that a failure to yield by the person was represented on the police crash report through the crash description, diagram, and or coded boxes. *The officer does not have to make the specific statement “failed to yield.” For example, a person crossing in the path of a vehicle outside of an intersection and not in a crosswalk would be failing to yield.*

**Examples include:**

- Failure to yield when exiting a driveway.
- Mid-block crossings not at a crosswalk.
- Not clearing an intersection before the light turns green for crossing traffic.
- Failure to yield at an intersection not controlled by a stop sign or flashing red lights.
- A bicyclist who stopped at the stop sign but did not realize it was a 2-way stop rather than a 4-way stop control and proceeded into the intersection without yielding to traffic on the through trafficway.

Failure to obey a traffic control device is coded as **03 (Failure to Obey Traffic Signs, Signals, or Officer)**.

**03 (Failure to Obey Traffic Signs, Signals, or Officer)** is used when a person fails to obey a traffic control device as indicated in the case material. Examples include person does not obey traffic signs, traffic control devices (including pedestrian signals), traffic officers, or safety zones; or passes around railroad gates.

**04 (In Roadway Improperly [Standing, Lying, Working, Playing, etc.])** is used when a person was indicated to have been in the roadway improperly other than making an improper crossing as in code **12 (Improper Crossing of Roadway or Intersection [Jaywalking])**.

**Examples include:**

- Playing in the road before the vehicle arrived. The person must not have just run into the roadway after a ball, which would be coded [01 \(Dart-Out - Visual Obstruction Noted\)](#) or [11 \(Dash - Run, No Visual Obstruction Noted\)](#).
- Working in the road other than because of the requirement of his/her job, (e.g., someone walking backwards into the roadway with a snow blower or lawn care equipment).
- In the street voluntarily, such as a civilian directing traffic at the scene of a crash.
- Attempting to hail a cab, flag down assistance, or flag down a transit bus between designated stops.
- Sitting, getting up, asleep/unconscious, kneeling, etc.

**05 (Entering/Exiting Parked or Stopped Vehicle)** is used when a pedestrian was adjacent to a stopped or parked vehicle and in the process of getting into or had just exited that stopped or parked vehicle. This does not include crashes involving pedestrians performing other actions such as crossing the roadway to/from a parked vehicle or other movements that occurred after the pedestrian exited the vehicle.

**06 (Inattentive [Talking, Eating, etc.])** is used when the case material specifically state a person is inattentive, lost in thought or distracted. Examples include using any electronic devices (mobile phone, video game, e-reader), using earbuds on a music player while jogging, chatting with a neighbor, caring for a baby in a stroller, admiring a garden, etc.

**07 (Improper Turn/Merge)** is used when the case material indicate the bicyclist/operator made an improper turn or merge. Examples of an improper turn include too wide right or left turns, making a right turn from the left lane, a left turn from the right lane or unsafe U-turns. An example of an improper merge is when the bicycle lane ends and the bicyclist merges into the path of a vehicle without leaving sufficient space.

**08 (Improper Passing)** is used when the case material indicate the bicyclist/operator made an improper passing maneuver. The bicyclist/operator may be passing a motor vehicle or another bicyclist. Actions include passing on the right, and where prohibited by signs, pavement markings, or a stopped school bus, (i.e., mainly violations as designated by traffic controls). Improper passing that is based on faulty judgment errors such as insufficient distance, or inadequate visibility are captured by [20 \(Passing with Insufficient Distance or Inadequate Visibility or Failing to Yield to Overtaking Vehicle\)](#).

**09 (Wrong-Way Riding or Walking)** is used when a person was identified in the case material to have been traveling the wrong way.

**10 (Riding on Wrong Side of Road)** is used when a bicyclist was identified in the case material to have been traveling on the wrong side of the road.

**12 (Improper Crossing of Roadway or Intersection [Jaywalking])** is used when a person is engaged in crossing a road but is not doing so properly. This includes mid-block crossings outside a crosswalk and crossing at an intersection by cutting on a diagonal through it. The officer's representation of either circumstance on the diagram or in the narrative substantiates the use of this attribute. The person may be engaged in other activities such as the continuation of jogging/running or a "sudden or impulsive" dart, run, etc. This attribute should not be used in conjunction with [04 \(In Roadway Improperly \[Standing, Lying, Working, Playing, etc.\]\)](#).

**13 (Failing to Have Lights on When Required)** is used when the case material indicate the operator of a bicycle, animal-drawn conveyance, or personal conveyance failed to have lights on when required. This also includes not having lights available to turn on and may be used with **14 (Operating Without Required Equipment)**.

**14 (Operating Without Required Equipment)** is used when the case material indicate that the bicycle, animal-drawn conveyance, or person conveyance, was being operated without the proper equipment such as headlights, taillights, etc. Helmet use is captured under [NON-MOTORIST SAFETY EQUIPMENT](#).

**15 (Improper or Erratic Lane Changing)** is used when a bicyclist, operator of horse-drawn vehicle, rollerblader, or skateboard rider was weaving in and out of traffic. This includes maneuvering between vehicles and in-and-out of a bike lane.

**16 (Failure to Keep in Proper Lane or Running Off Road)** is used when a bicyclist/operator fails to stay in the proper lane or runs off the road. For example, a bicyclist fails to keep in bicycle lane or operator of horse-drawn vehicle goes straight in a turn lane. This includes running into a median or drifting into a parking lane.

**17 (Making Improper Entry to or Exit from Trafficway)** is used when a person is engaged in entering or exiting the trafficway but is not doing so properly, or in a manner that would be anticipated by others. This includes entering or exiting the trafficway midblock between driveway accesses, improper use of ramps and turn-bays to enter or exit, and or cutting on a diagonal across a lawn or parking lot to enter a trafficway. This may be used in conjunction with [02 \(Failure to Yield Right-of-Way\)](#), [03 \(Failure to Obey Traffic Signs, Signals, or Officer\)](#), [07 \(Improper Turn/Merge\)](#), and/or [09 \(Wrong-Way Riding or Walking\)](#) if they apply. This code does not apply to [PERSON TYPES 05 \(Pedestrian\)](#) or [10 \(Persons In/On Buildings\)](#).

**18 (Operating in Other Erratic, Reckless, Careless or Negligent Manner)** is used when explicitly stated in the case material. Examples include bicyclists doing wheelies, attempting to grab on to a vehicle for motion (“skitching”), or skateboard racing.

**19 (Not Visible [Dark Clothing, No Lighting, etc.])** is used when the non-motorist was not visible to the motorist because of blocked views, insufficient lighting, or other reasons such as clothing that blends in with the surroundings at any time of the day (camouflage) or dark clothing in the rain at night. The officer must indicate that the non-motorist was not visible.

**20 (Passing with Insufficient Distance or Inadequate Visibility or Failing to Yield to Overtaking Vehicle)** is used when an improper passing maneuver is indicated in the case material for the non-motorist. This indicates passing violations based on faulty judgment. This may be used in conjunction with [08 \(Improper Passing\)](#) if both apply.

**21 (Other, Specify:)** is used when the case material states that an action(s)/circumstance(s) by the non-motorist may have contributed to the crash, but are not listed in these attributes. Examples include being pushed into the roadway, falling from a bicycle, traveling on a prohibited roadway.

**\*Note: For** attributes with a “Specify:” designation, a fill-in text box will open in **RBIS**. This text box should be used to provide additional detail about the attribute selection. Please include a specific reason for this selection.

**99 (Reported as Unknown)** is used when the officer indicated unknown in the case material's contributing circumstances field or the narrative and no other information is available. If this attribute is used no other attribute may be selected.

**Consistency Checks** ([See Section 400](#)):

| <b>Error ID</b> | <b>IF</b>                                                                        | <b>THEN</b>                                                                                                                                 |
|-----------------|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| 0PB1            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 741,                     | at least one NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must equal 11.                                                                         |
| 0PB2            | PEDESTRIAN BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 760,                     | at least one NON-MOTORIST CONTRIBUTING CIRCUMSTANCES should equal 02.                                                                       |
| 1N4F            | NON-MOTORIST SAFETY EQUIPMENT Subfield 5- Non-Motorist Use of Lighting equals 2, | NON-MOTORIST CONTRIBUTING CIRCUMSTANCES should not equal 13.                                                                                |
| 1P0G            | PERSON TYPE equals 05,                                                           | NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must not equal 07, 08, 10, 13-18, 20.                                                               |
| 1P0H            | NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21,                            | NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must not equal 02-04, 07-10, 15, 16, 20.                                                            |
| 1P1H            | NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 22,                            | NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must not equal 01, 02, 04, 07, 08, 11, 15, 20.                                                      |
| 1P2H            | NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 23,                            | NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must not equal 12, 15.                                                                              |
| 1P3F            | PERSON TYPE (NM7) equals 10,                                                     | NON-MOTORIST ACTION/CIRCUMSTANCES (NM11) must not equal 01-12, 16, and NON-MOTORIST CONTRIBUTING CIRCUMSTANCES (NM12) must not equal 01-20. |
| 1P3G            | PERSON TYPE equals 04, 06, 07,                                                   | NON-MOTORIST CONTRIBUTING CIRCUMSTANCES should not equal 04.                                                                                |
| 1P3H            | NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 24,                            | NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must not equal 01, 03, 04, 10, 11.                                                                  |
| 1P4G            | PERSON TYPE equals 04, 06, <b>07, 11, 12, 13</b> , 19,                           | NON-MOTORIST CONTRIBUTING CIRCUMSTANCES should not equal 05.                                                                                |
| 1P4H            | NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 25,                            | NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must not equal 01-04, 10, 11, 12, 15-17, 20.                                                        |

| <b>Error ID</b> | <b>IF</b>                                                                                                         | <b>THEN</b>                                                                                                       |
|-----------------|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| 1P5G            | PERSON TYPE equals <b>11, 12, or 13</b> ,                                                                         | NON-MOTORIST CONTRIBUTING CIRCUMSTANCES should not equal 20.                                                      |
| 1P5H            | NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 28, 98, 99,                                                     | NON-MOTORIST CONTRIBUTING CIRCUMSTANCES should not equal 01, 03, 04, 10, 11, 12, 15, 16, 20.                      |
| 1P6H            | NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 16,                                                             | NON-MOTORIST CONTRIBUTING CIRCUMSTANCES should not equal 04, 16.                                                  |
| 1P7H            | NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21,                                                             | NON-MOTORIST CONTRIBUTING CIRCUMSTANCES should not equal 01, 05, 11, 12, 17.                                      |
| 1P8H            | NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 23,                                                             | NON-MOTORIST CONTRIBUTING CIRCUMSTANCES should not equal 02.                                                      |
| 1P9G            | NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 20,                                                             | NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must not equal 02-04, 15.                                                 |
| 1P9H            | NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 24,                                                             | NON-MOTORIST CONTRIBUTING CIRCUMSTANCES should not equal 02, 05, 12, 15, 16.                                      |
| 1PH0            | NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 25,                                                             | NON-MOTORIST CONTRIBUTING CIRCUMSTANCES should not equal 07-09.                                                   |
| <b>2P1F</b>     | <b>PERSON TYPE equals 04, 06, 07, or 10,</b>                                                                      | <b>NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must not equal 12.</b>                                                 |
| 4W4P            | RELATED FACTORS-PERSON LEVEL (Not a MV Occupant) equals <b>053, 054, 055</b> , and PERSON TYPE does not equal 05, | at least one NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must equal 18.                                               |
| 4W5P            | RELATED FACTORS-PERSON LEVEL (Not a MV Occupant) equals <b>053, 054, 055</b> , and PERSON TYPE equals 05,         | at least one NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must equal 21.                                               |
| 4X2A            | NON-MOTORIST CONTRIBUTING CIRCUMSTANCES equals 19,                                                                | NON-MOTORIST SAFETY EQUIPMENT Subfield 4-Non-Motorist Use of Reflective Clothing/Carried Item should not equal 2. |
| 4X2B            | NON-MOTORIST CONTRIBUTING CIRCUMSTANCES equals 19,                                                                | NON-MOTORIST SAFETY EQUIPMENT Subfield 5- Non-Motorist Use of Lighting should not equal 2.                        |
| 4X2C            | any NON-MOTORIST CONTRIBUTING CIRCUMSTANCES equals 06,                                                            | NON-MOTORIST DISTRACTED BY must not equal 00 or 96 or 99.                                                         |
| 4X3A            | NON-MOTORIST CONTRIBUTING CIRCUMSTANCES equals 11,                                                                | PERSON TYPE must equal 05.                                                                                        |

| <b>Error ID</b> | <b>IF</b>                                                                                                                       | <b>THEN</b>                                                                                                                                                        |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4X3G            | <i>any NON-MOTORIST ACTIONS CIRCUMSTANCES equals 03,</i>                                                                        | <b><i>NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must not equal 04 for this Person (Not a Motor Vehicle Occupant).</i></b>                                            |
| 4X4A            | any NON-MOTORIST DISTRACTED BY equals 00, 96, or 99,                                                                            | none of the NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must equal 06.                                                                                                 |
| 4X5A            | NON-MOTORIST DISTRACTED BY does not equal 00, 96, or 99,                                                                        | at least one NON-MOTORIST CONTRIBUTING CIRCUMSTANCES should equal 06.                                                                                              |
| 4X8F            | any NON-MOTORIST CONTRIBUTING CIRCUMSTANCES equals 00 or 99,                                                                    | only that one code and no other must be coded for this person.                                                                                                     |
| 4X8G            | NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must not equal 01 and 11 for the same person.                                           | --                                                                                                                                                                 |
| 4X8H            | any NON-MOTORIST CONTRIBUTING CIRCUMSTANCES equals 01,                                                                          | DRIVER'S VISION OBSCURED BY must not equal 00, 95, or 99 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST. |
| PB16            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLIST equals 142, 144, 147, 153, 155, 156, 157, 159, 311, 312, 313, 318, 319, or 357, | at least one NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must equal 02.                                                                                                |
| PB18            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 742,                                                                    | at least one NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must equal 01.                                                                                                |
| PB26            | NON-MOTORIST CONTRIBUTING CIRCUMSTANCES equals 02, and PERSON TYPE equals 06 or 07,                                             | PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLIST should equal 142, 144, 147, 153, 155, 156, 157, 159, 311, 312, 313, 318, 319, or 357.                              |
| PBA9            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 741,                                                                    | NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must not equal 01.                                                                                                         |
| PBB1            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 742,                                                                    | NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must not equal 11.                                                                                                         |
| PBC0            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLE equals 250,                                                                       | at least one NON-MOTORIST CONTRIBUTING CIRCUMSTANCES should equal 09.                                                                                              |
| PBC1            | PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 410,                                                                    | at least one NON-MOTORIST CONTRIBUTING CIRCUMSTANCES should equal 09.                                                                                              |

### NM13 - Non-Motorist Distracted By

**FORMAT:** 2 numeric. Select All That Apply.

**SAS NAME:** *Nmdistract.NMDISTRACT*

**ELEMENT VALUES:**

| Codes | Attributes                                                                                     |
|-------|------------------------------------------------------------------------------------------------|
| 00    | <a href="#">Not Distracted</a>                                                                 |
| 02    | <a href="#">By Other Non-Motorist(s)</a>                                                       |
| 03    | <a href="#">By a Driver or Occupant of a Motor Vehicle</a>                                     |
| 12    | <a href="#">Distracted by Animal, Other Object, Event, or Activity</a>                         |
| 05    | <a href="#">While Talking or Listening to Mobile Phone</a>                                     |
| 06    | <a href="#">While Manipulating Mobile Phone</a>                                                |
| 15    | <a href="#">Other Mobile Phone Related</a>                                                     |
| 07    | <a href="#">Adjusting or Listening to Portable Audio Device (Other than on a Mobile Phone)</a> |
| 08    | <a href="#">Adjusting, Talking to, or Manipulating Other Portable Electronic Device</a>        |
| 13    | <a href="#">Eating or Drinking</a>                                                             |
| 14    | <a href="#">Smoking Related</a>                                                                |
| 17    | <a href="#">Distraction/Inattention</a>                                                        |
| 18    | <a href="#">Distraction/Careless</a>                                                           |
| 19    | <a href="#">Careless/Inattentive</a>                                                           |
| 92    | <a href="#">Distraction (Distracted), Details Unknown</a>                                      |
| 93    | <a href="#">Inattention (Inattentive), Details Unknown</a>                                     |
| 97    | <a href="#">Lost in Thought/Day Dreaming</a>                                                   |
| 98    | <a href="#">Other Distraction (Specify:)</a>                                                   |
| 96    | <a href="#">Not Reported</a>                                                                   |
| 99    | <a href="#">Reported as Unknown if Distracted</a>                                              |

**Definition:** This element identifies the attribute(s) that best describe this non-motorist's attention prior to the non-motorist's involvement in this crash. This element reports on the presence of any distractions that may or may not have contributed to the crash. Distraction for a non-motorist occurs when a non-motorist's attention is diverted from the task of navigating in public to some other activity. Also, NHTSA identifies daydreaming or lost in thought as distractions. NHTSA does not identify physical conditions/impairments (fatigue, alcohol, medical condition, etc.) or psychological states (anger, emotional, depressed, etc.) as distractions.

**NOTE:** *"Presence" is not the same as an activity associated with the person or item. The non-motorist needs to be engaged in some activity associated with the thing that is causing a distraction. Just having a mobile phone, sandwich, other non-motorist, etc., nearby isn't a distraction. The*



*distraction is when the non-motorist's attention is diverted from the task of navigating in public to using the phone, eating the sandwich, turning to talk to another non-motorist, etc. It doesn't have to be a contributing factor in the crash, but it does have to be in use, engaged, the person was doing it at the time, etc. for it to have been a distraction.*

**Remarks:** Record the attribute(s) that best describe this non-motorist's attention prior to the non-motorist's involvement in this crash. Intoxication, ill, blackout, asleep, or fatigued are not considered distractions. This information is captured under the data element [CONDITION \(IMPAIRMENT\) AT TIME OF CRASH](#).

NON-MOTORIST DISTRACTED BY is a "Select All That Apply" element. If the element values [00 \(Not Distracted\)](#), [17 \(Distraction/ Inattention\)](#), [18 \(Distraction/Careless\)](#), [19 \(Careless/Inattentive\)](#), [92 \(Distraction \[Distracted\], Details Unknown\)](#), [93 \(Inattention \[Inattentive\], Details Unknown\)](#), [96 \(Not Reported\)](#), or [99 \(Reported as Unknown if Distracted\)](#) are selected, then only that one element value may be used.

### **Witness Statements:**

See clarification on the use of information provided by witnesses in section [103. Data Sources](#).

### **00 (Not Distracted)**

- When the case material indicate that the individual was completely attentive.
- When the case material does not indicate a distraction in an available field, and not reporting a distraction in that field indicates 00 (Not Distracted).
- For omission of information see [96 \(Not Reported\)](#) guidance below.

**02 (By Other Non-Motorist[s])** is used when the non-motorist was distracted by another non-motorist prior to becoming involved. Examples include conversing with, looking at, or otherwise interacting with another Non-Motorist.

**03 (By a Driver or Occupant of a Motor Vehicle)** is used when the non-motorist was distracted by a Driver or Occupant of a Motor Vehicle prior to becoming involved (e.g., conversing with, watching, other interactions).

**12 (Distracted by Animal, Other Object, Event, or Activity)** is used when the non-motorist was distracted by an animal, object, event, or activity prior to becoming involved in the crash. Examples include, distractions related to pet walking, animals on the roadside, a previous crash, non-traffic related signs (advertisements, electronic billboards, etc.) grooming activities, opening an umbrella, flying insects, etc.

**05 (While Talking or Listening to Mobile Phone)** is used when the non-motorist is talking or listening on a mobile phone. This attribute includes talking or listening on a "hands-free" or Bluetooth enabled phone. This attribute also includes listening to audio on a Mobile phone. For distractions related to manipulating the audio on a mobile phone, see [06 \(While Manipulating Mobile Phone\)](#). For distractions related to audio on a device other than a mobile phone, see [07 \(Adjusting or listening to Audio Device \[Other than Mobile Phone\]\)](#).

**06 (While Manipulating Mobile Phone)** is used when the non-motorist is dialing or text messaging (texting) on a mobile phone. Any manual button/control actuation on the phone qualifies. Examples include checking email, using the camera function to take a picture or record a video, manipulating audio, using the internet, GPS navigation, fitness apps, playing a game, etc. on the mobile phone. For

distractions related to listening to audio on a mobile phone, see [05 \(While Talking or Listening to Mobile Phone\)](#).

**15 (Other Mobile Phone Related)** is used when the case material indicates the non-motorist was distracted due to mobile phone involvement, but none of the specified codes are applicable (reaching for mobile phone, etc.). This attribute is also applied when specific details regarding mobile phone distraction/usage are not provided (*e.g., email, nonspecific mobile phone use*).

**07 (Adjusting or Listening to Portable Audio Device [Other than on a Mobile Phone])** is used when the non-motorist was distracted while adjusting, listening to, or using a radio, cassette player, CD player, or MP3 player (not on a mobile phone). For distractions related to audio on a mobile phone, see code [05 \(While Talking or Listening to Mobile Phone\)](#) and [06 \(While Manipulating Mobile Phone\)](#).

**08 (Adjusting, Talking to, or Manipulating Other Portable Electronic Device)** is used when the non-motorist is distracted while adjusting, talking to, or otherwise manipulating a portable electronic device that is not a mobile phone or audio player. Examples include digital camera, bike ride tracker, pedometer, laptop or tablet computer, gaming device, GPS navigation, etc.

**13 (Eating or Drinking)** is used when the non-motorist is eating or drinking or involved in an activity related to these actions (picking up food from a handheld carton, reaching to throw out used food wrapper, etc.).

**14 (Smoking Related)** is used when the non-motorist is smoking or involved in an activity related to smoking, such as lighting a cigarette, putting ashes in an outdoor ash tray, vaping, etc. Any method of lighting the cigarette would be coded **14 (Smoking Related)**. Chewing tobacco related distractions are coded under [98 \(Other Distraction \[Specify:\]\)](#).

**17 (Distraction/Inattention)** is used exclusively when “Distraction/Inattention” or “Inattention/Distraction” are noted in the case material as one combined attribute and it cannot be determined which NON-MOTORIST DISTRACTED BY attribute is intended, [92 \(Distraction \[Distracted\], Details Unknown\)](#) or [93 \(Inattention \[Inattentive\], Details Unknown\)](#).

**18 (Distraction/Careless)** is used exclusively when “Distraction/Careless” or “Careless/Distraction” are noted in the case material as one combined attribute and it cannot be determined which NON-MOTORIST DISTRACTED BY attribute applies.

**19 (Careless/Inattentive)** is used exclusively when “Careless/Inattentive” or “Inattentive/ Careless” are noted in the case material as one combined attribute and it cannot be determined which NON-MOTORIST DISTRACTED BY attribute applies.

**92 (Distraction [Distracted], Details Unknown)** is used when “distraction” or “distracted” are noted in the case material, but specific distraction(s) cannot be identified. For non-specific “inattention” see attribute

**93 (Inattention [Inattentive], Details Unknown).**

**93 (Inattention [Inattentive], Details Unknown)** is used when “inattention” or “inattentive” are noted in the case material, but it cannot be identified if this refers to a distraction(s).

**97 (Lost in Thought/Day Dreaming)** is used when the non-motorist is not completely attentive because he/she is thinking about items other than being aware of their surroundings. For non-specific “distraction” see element value [92 \(Distraction \[Distracted\], Details Unknown\)](#). For non-specific “inattention” see element value [93 \(Inattention \[Inattentive\], Details Unknown\)](#).

**98 (Other Distraction [Specify:])** is used when details regarding this non-motorist’s distraction are known but none of the specified codes are applicable (e.g., chewing tobacco related).

**\*Note: For** attributes with a “Specify:” designation, a fill-in text box will open in **RBIS**. This text box should be used to provide additional detail about the attribute selection. Please include a specific reason for this selection.

**96 (Not Reported)** Check to see if [00 \(Not Distracted\)](#) or [99 \(Reported as Unknown if Distracted\)](#) are more appropriate for the situation.

If a State’s crash report manual instructs to leave blank data blocks that are not applicable, then a blank in those data blocks are NOT considered “Not Reported.”

Code **96 (Not Reported)** in these two situations:

1. No field or coding block exists on the State’s crash report to provide the information to code this element AND no other information is available to code the element (e.g., narrative, diagram, case material).
2. A field or coding block exists on the State’s crash report that would provide the information needed to code this element, but it has been left blank, OR a code has been selected on the State’s crash report that does not map to any FARS/CRSS attribute, AND no other information is available to code the element (e.g., narrative, diagram, case material).

**99 (Reported as Unknown if Distracted)** is used when the case material specifically indicate unknown.

**Consistency Checks** [\(See Section 400\)](#):

| Error ID | IF                                                                        | THEN                                                                                       |
|----------|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| 4W3P     | RELATED FACTORS - PERSON (NOT A MOTOR VEHICLE OCCUPANT) LEVEL equals 091, | NON-MOTORIST DISTRACTED BY should equal 05, 06, 07, 08, or 15.                             |
| 4X0A     | NON-MOTORIST DISTRACTED BY equals 05, 06, 07, 08, or 15,                  | at least one RELATED FACTORS - PERSON (NOT A MOTOR VEHICLE OCCUPANT) LEVEL must equal 091. |
| 4X1A     | any NON-MOTORIST DISTRACTED BY equals 00, 17, 18, 19, 92, 93, 96, or 99,  | only that one code and no other must be used.                                              |
| 4X2C     | any NON-MOTORIST CONTRIBUTING CIRCUMSTANCES equals 06,                    | NON-MOTORIST DISTRACTED BY must not equal 00 or 96 or 99.                                  |
| 4X4A     | any NON-MOTORIST DISTRACTED BY equals 00, 96, or 99,                      | none of the NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must equal 06.                         |

| <b>Error ID</b> | <b>IF</b>                                                   | <b>THEN</b>                                                           |
|-----------------|-------------------------------------------------------------|-----------------------------------------------------------------------|
| 4X5A            | NON-MOTORIST DISTRACTED BY does not equal 00, 96, or 99,    | at least one NON-MOTORIST CONTRIBUTING CIRCUMSTANCES should equal 06. |
| 4X6A            | <i>NON-MOTORIST DISTRACTED BY equals 17,</i>                | <i>STATE should equal GA, MN, MO, NV, NY, or SC.</i>                  |
| U300            | <i>Unlikely NON-MOTORIST DISTRACTED BY equals 18 or 19.</i> | --                                                                    |

## NM14 - Non-Motorist Safety Equipment

**FORMAT:** 6 Sets, 1 numeric.

**SAS NAMES:** Safetyeq.NMHELMET, Safetyeq.NMPROPAD, Safetyeq.NMOTHPRO, Safetyeq.NMREFCLO, Safetyeq.NMLIGHT, Safetyeq.NMOTHPRE

**ELEMENT VALUES:**

### PROTECTIVE Non-Motorist Safety Equipment

#### Subfield 1 - Non-Motorist Helmet Use

| Codes | Attributes                          |
|-------|-------------------------------------|
| 1     | <a href="#">No</a>                  |
| 2     | <a href="#">Yes</a>                 |
| 8     | <a href="#">Not Reported</a>        |
| 9     | <a href="#">Reported as Unknown</a> |

#### Subfield 2-Non-Motorist Use of Protective Pads

| Codes | Attributes                          |
|-------|-------------------------------------|
| 1     | <a href="#">No</a>                  |
| 2     | <a href="#">Yes</a>                 |
| 8     | <a href="#">Not Reported</a>        |
| 9     | <a href="#">Reported as Unknown</a> |

#### Subfield 3- Non-Motorist Use of Other Protective Safety Equipment

| Codes | Attributes                          |
|-------|-------------------------------------|
| 1     | <a href="#">No</a>                  |
| 2     | <a href="#">Yes</a>                 |
| 8     | <a href="#">Not Reported</a>        |
| 9     | <a href="#">Reported as Unknown</a> |

## PREVENTIVE Non-Motorist Safety Equipment

### Subfield 4-Non-Motorist Use of Reflective Clothing/Carried Item

| Codes | Attributes                          |
|-------|-------------------------------------|
| 1     | <a href="#">No</a>                  |
| 2     | <a href="#">Yes</a>                 |
| 8     | <a href="#">Not Reported</a>        |
| 9     | <a href="#">Reported as Unknown</a> |

### Subfield 5-Non-Motorist Use of Lighting

| Codes | Attributes                          |
|-------|-------------------------------------|
| 1     | <a href="#">No</a>                  |
| 2     | <a href="#">Yes</a>                 |
| 8     | <a href="#">Not Reported</a>        |
| 9     | <a href="#">Reported as Unknown</a> |

### Subfield 6-Non-Motorist Use of Other Preventive Safety Equipment

| Codes | Attributes                          |
|-------|-------------------------------------|
| 1     | <a href="#">No</a>                  |
| 2     | <a href="#">Yes</a>                 |
| 8     | <a href="#">Not Reported</a>        |
| 9     | <a href="#">Reported as Unknown</a> |

**Definition:** This element identifies the safety equipment that was used and not used by this non-motorist as reflected in the case material.

**Remarks:** The applicable attribute may be determined using various items in the case material such as a crash report field, the officer narrative, a fatal crash supplement, etc. Each subfield is recorded separately using the same attribute choices ([No](#), [Yes](#), [Not Reported](#), and [Reported as Unknown](#)).

#### **General Guidance:**

1. Review the State police crash report fields, narrative, and diagram for indications of any safety equipment used.
2. The element allows for collecting any safety equipment in use if it can be classified as protective or preventive. Protective equipment is designed to mitigate injury, while preventive equipment is intended to avoid a crash from occurring. Examples of equipment that may be noted, and proper classification, are below.

|                                                                                                                     | Protective Subfields |         |                      | Preventive Subfields |                      |                      |
|---------------------------------------------------------------------------------------------------------------------|----------------------|---------|----------------------|----------------------|----------------------|----------------------|
| Safety Equipment Described                                                                                          | 1-Helmet             | 2-Pads  | 3-Other              | 4-Clothing           | 5-Lighting           | 6-Other              |
| Helmet on a horseback rider                                                                                         | 2 (Yes)              |         |                      |                      |                      |                      |
| Reflective helmet                                                                                                   | 2 (Yes)              |         |                      | 2 (Yes)              |                      |                      |
| Personal inflatable devices                                                                                         |                      |         | 2 (Yes)              |                      |                      |                      |
| Lap belt in use on a wheelchair                                                                                     |                      |         | 2 (Yes)              |                      |                      |                      |
| Child seat used in an Amish buggy                                                                                   |                      |         | 2 (Yes)              |                      |                      |                      |
| 3-Point belt used by toddler in a bicycle trailer                                                                   |                      |         | 2 (Yes)              |                      |                      |                      |
| Bicycle reflectors or flags                                                                                         |                      |         |                      |                      |                      | 2 (Yes)              |
| Safety flags or triangles on a non-motorist conveyance                                                              |                      |         |                      |                      |                      | 2 (Yes)              |
| Day-Glo/Hi-Glo clothing                                                                                             |                      |         |                      |                      |                      | 2 (Yes)              |
| “Mr. Johnson was wearing a Hi-Glo orange hunting vest.”                                                             |                      |         |                      |                      |                      | 2 (Yes)              |
| “The pedestrian was not using any safety equipment.”                                                                | 1 (No)               | 1 (No)  | 1 (No)               | 1 (No)               | 1 (No)               | 1 (No)               |
| The cyclist didn’t use a headlight and was in violation of “Required to Use a Headlight at Night.”                  |                      |         |                      |                      | 8 (N/R) <sup>1</sup> |                      |
| “Other” checked, not specified                                                                                      |                      |         | 8 (N/R) <sup>2</sup> |                      |                      | 8 (N/R) <sup>3</sup> |
| “No Helmet” or “Not wearing a Helmet” is the ONLY indication on a crash report where only one field may be checked. | 1 (No)               | 8 (N/R) | 8 (N/R)              | 8 (N/R)              | 8 (N/R)              | 8 (N/R)              |
| “It’s unknown if the cyclist was using any safety equipment”                                                        | 9 (R/U)              | 9 (R/U) | 9 (R/U)              | 9 (R/U)              | 9 (R/U)              | 9 (R/U)              |
| “Contrasting Clothing”                                                                                              | 8 (N/R)              | 8 (N/R) | 8 (N/R)              | 8 (N/R)              | 8 (N/R)              | 8 (N/R)              |

1. Knowing that a headlight was not in use does not mean that the cyclist was not using any lighting.
2. Unless another piece of protective equipment was checked as “Used” in a crash report field that would translate to a FARS/CRSS “Other” protective, e.g., a field labeled “Eyewear.”
3. Unless another piece of preventive equipment was checked as “Used” in a crash report field that would translate to a FARS/CRSS “Other” preventive, e.g., a field labeled “Rollerblade Stoppers.”
3. N/R: Not Reported
4. R/U: Reported as Unknown

3. Note that when a piece of safety equipment noted is mentioned only as “Other” and is not specified anywhere in the case material, both the Protective and Preventive subfields for “Other” must be coded as **8 (Not Reported)**, unless another piece of equipment is mentioned that qualifies for the FARS/CRSS code “Other.” The reason for this is that there is no analytical value to collecting unknown equipment in use without a minimum classification of Protective or Preventive. See **table notes** two and three above.

4. Complete the Protective and Preventive equipment subfields in **RBIS**, assessing whether each category of safety equipment was used [2 \(Yes\)](#), not used [1 \(No\)](#), there is no information regarding the category [8 \(Not Reported\)](#), or the officer indicated that safety equipment use was unknown [9 \(Reported as Unknown\)](#).

### ***PROTECTIVE Non-Motorist Safety Equipment***

**Subfield 1- Non-Motorist Helmet Use** is used to identify if the case material indicate the non-motorist was wearing a safety helmet. The non-motorist does not have to be riding a bicycle at the time of the crash to code this subfield as [2 \(Yes\)](#).

[2 \(Yes\)](#) includes all helmets (bicycle helmet, motorcycle helmet, racing helmets, etc.). If the non-motorist was wearing a motorcycle helmet, see [RELATED FACTORS - PERSON \(NOT A MOTOR VEHICLE OCCUPANT\) LEVEL](#) attribute [093 \(Non-Motorist Wearing Motorcycle Helmet\)](#). For example, a pedestrian that previously was riding a motorcycle gets struck while still wearing their helmet.

**Subfield 2- Non-Motorist Use of Protective Pads** is used to identify if the case material indicate the non-motorist was wearing padded, shaped attachments to protect specific areas of the body (elbows, knees, shins, etc.) from injury.

**Subfield 3- Non-Motorist Use of Other Protective Safety Equipment** is used to identify if the case material indicate the non-motorist was using protective safety equipment other than a helmet or pads (eye wear/face shields, gloves, wrist guards, etc.). If other safety equipment is noted in the case material and it cannot be determined if it is preventive or protective, use code [8 \(Not Reported\)](#).

### ***PREVENTIVE Non-Motorist Safety Equipment***

**Subfield 4-Non-Motorist Use of Reflective Clothing/Carried Item** is used to identify if the case material indicate the non-motorist was wearing or carrying some type of reflective item (jacket, backpack, vest, etc.). The emphasis is on the reflective property of the clothing or carried item and does not include devices that give off light under their own power (e.g., flashlights). For lighting, use [Subfield 5- Non-Motorist Use of Lighting](#). The reflective item can be reflective tape affixed to regular clothing, special reflective clothing, a reflective device that is worn or a reflective device that is carried. It can be made by the non-motorist and does not have to be specially designed as a safety device.

Do not code bicycle reflectors or clothing that is non-reflective but considered to be safety equipment (hi-glo orange clothing) here, use [Subfield 6- Non-Motorist Use of Other Preventive Safety Equipment](#) instead. Subfield 4 is used only for clothing or equipment that is both reflective and worn or carried.

**Subfield 5- Non-Motorist Use of Lighting** is used to identify if the case material indicate the non-motorist was using a light on his/her person or on a pedalcycle or personal conveyance for safety purposes, to include flashlights.

**Subfield 6- Non-Motorist Use of Other Preventive Safety Equipment** is used to identify if the case material indicate the non-motorist was using preventive safety equipment other than a reflective clothing/carried item or light (bicycle reflectors and flags, reflectors and triangles on a buggy, Hi-Glo orange clothing, rollerblade stoppers, etc.). If other safety equipment is noted in the case material and it cannot be determined if it is preventive or protective, use code [8 \(Not Reported\)](#).



***The following attributes apply to all 6 subfields:***

**1 (No)** is used when the case material identifies this non-motorist did not use this type of safety equipment.

**2 (Yes)** is used when the case material identifies this non-motorist used this type of safety equipment.

**8 (Not Reported)** is used when the case material does not provide sufficient information to identify if this non-motorist did **2(Yes)** or did not **1 (No)** use this type of safety equipment. ***Check to see if 1 (No) or 9 (Reported as Unknown) are more appropriate for the situation.***

**9 (Reported as Unknown)** is used when the case material identifies it is unknown if this non-motorist used this type of safety equipment.

**Consistency Checks [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                                                                        | <b>THEN</b>                                                                                                       |
|-----------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| 1N4F            | NON-MOTORIST SAFETY EQUIPMENT Subfield 5- Non-Motorist Use of Lighting equals 2, | NON-MOTORIST CONTRIBUTING CIRCUMSTANCES should not equal 13.                                                      |
| 4X2A            | NON-MOTORIST CONTRIBUTING CIRCUMSTANCES equals 19,                               | NON-MOTORIST SAFETY EQUIPMENT Subfield 4-Non-Motorist Use of Reflective Clothing/Carried Item should not equal 2. |
| 4X2B            | NON-MOTORIST CONTRIBUTING CIRCUMSTANCES equals 19,                               | NON-MOTORIST SAFETY EQUIPMENT Subfield 5- Non-Motorist Use of Lighting should not equal 2.                        |
| 4W2P            | RELATED FACTORS - PERSON (NOT A MV OCCUPANT) LEVEL equals 093,                   | NON-MOTORIST SAFETY EQUIPMENT Subfield 1 Non-Motorist Helmet Use must equal 2.                                    |
| 8T0F            | NON-MOTORIST SAFETY EQUIPMENT Subfield 1 Non-Motorist Helmet Use equals 2,       | PERSON TYPE should equal 06, <b>07, 11, 12, or 13.</b>                                                            |

## NM15/D23 - Condition (Impairment) at Time of Crash

**FORMAT:** 2 numeric. Select All That Apply.

**SAS NAME:** Nmimpair.NMIMPAIR

### ELEMENT VALUES:

| Codes | Attributes                                                           |
|-------|----------------------------------------------------------------------|
| 00    | <a href="#">None/Apparently Normal</a>                               |
| 01    | <a href="#">Ill, Blackout</a>                                        |
| 02    | <a href="#">Asleep or Fatigued</a>                                   |
| 03    | <a href="#">Walking with a Cane or Crutches, etc.</a>                |
| 04    | <a href="#">Paraplegic or in a Wheelchair</a>                        |
| 05    | <a href="#">Impaired Due to Previous Injury</a>                      |
| 06    | <a href="#">Deaf</a>                                                 |
| 07    | <a href="#">Blind</a>                                                |
| 08    | <a href="#">Emotional (Depressed, Angry, Disturbed, etc.)</a>        |
| 09    | <a href="#">Under the Influence of Alcohol, Drugs, or Medication</a> |
| 10    | <a href="#">Physical Impairment - No Details</a>                     |
| 96    | <a href="#">Other Physical Impairment</a>                            |
| 98    | <a href="#">Not Reported</a>                                         |
| 99    | <a href="#">Reported as Unknown if Impaired</a>                      |

**Definition:** This element attempts to identify any physical impairment to this non-motorist who may have contributed to the cause of the crash.

**Remarks:** Select All That Apply.

This element's values and remarks are identical to the Driver Level element **CONDITION (IMPAIRMENT) AT TIME OF CRASH**. Please see [CONDITION \(IMPAIRMENT\) AT TIME OF CRASH](#) for remarks.

### Consistency Checks [\(See Section 400\)](#):

| Error ID | IF                                                       | THEN                                                                |
|----------|----------------------------------------------------------|---------------------------------------------------------------------|
| 1P6G     | PERSON TYPE equals 04, 06, <b>07, 11, 12, 13, or</b> 19, | CONDITION (IMPAIRMENT) AT TIME OF CRASH must not equal 03.          |
| 1P7G     | PERSON TYPE equals 05-07, 19,                            | CONDITION (IMPAIRMENT) AT TIME OF CRASH should not equal 04.        |
| 1P8G     | PERSON TYPE equals 10,                                   | CONDITION (IMPAIRMENT) AT TIME OF CRASH should not equal 01-10, 96. |

| <b>Error ID</b> | <b>IF</b>                                                              | <b>THEN</b>                                                                                           |
|-----------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| 2P0G            | CONDITION (IMPAIRMENT) AT TIME OF CRASH equals 03,                     | PERSON TYPE must be 05, 10, <b>11, 12, 13</b> , or 19.                                                |
| 4X3F            | any CONDITION (IMPAIRMENT) AT TIME OF CRASH equals 00 or 98 or 99,     | only that one code and no other must be coded for this person.                                        |
| 4X6F            | any CONDITION (IMPAIRMENT) AT TIME OF CRASH equals 09,                 | POLICE REPORTED ALCOHOL INVOLVEMENT or POLICE REPORTED DRUG INVOLVEMENT must equal 1 for this person. |
| U590            | UNLIKELY: any CONDITION (IMPAIRMENT) AT TIME OF CRASH equals 05 or 07. | --                                                                                                    |

## NM16/P16 - Police Reported Alcohol Involvement

**FORMAT:** 1 numeric

**SAS NAME:** Person.DRINKING

**ELEMENT VALUES:**

| Codes | Attributes                                |
|-------|-------------------------------------------|
| 0     | <a href="#">No (Alcohol Not Involved)</a> |
| 1     | <a href="#">Yes (Alcohol Involved)</a>    |
| 8     | <a href="#">Not Reported</a>              |
| 9     | <a href="#">Reported as Unknown</a>       |

**Definition:** This data element reflects only **the judgment of law enforcement** as to whether alcohol was involved or not for this person.

**Remarks:** This element's values and remarks are identical to the Person Level (MV Occupant) Level element POLICE REPORTED ALCOHOL INVOLVEMENT. Please see [POLICE REPORTED ALCOHOL INVOLVEMENT](#) for remarks.

**Consistency Checks** [\(See Section 400\)](#):

| Error ID    | IF                                                                                           | THEN                                                                                                                                   |
|-------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| 4X6F        | any CONDITION (IMPAIRMENT) AT TIME OF CRASH equals 09,                                       | POLICE REPORTED ALCOHOL INVOLVEMENT or POLICE REPORTED DRUG INVOLVEMENT must equal 1 for this person.                                  |
| D090        | VIOLATIONS CHARGED equals 11-19, and PERSON TYPE equals 01, 03,                              | POLICE REPORTED ALCOHOL INVOLVEMENT should equal 1, or POLICE REPORTED DRUG INVOLVEMENT should equal 1.                                |
| P072        | PERSON TYPE equals 02, 03, and INJURY SEVERITY equals 0, and ALCOHOL TEST RESULT equals 996, | POLICE REPORTED ALCOHOL INVOLVEMENT should equal 0, 8.                                                                                 |
| <b>P076</b> | <b>ALCOHOL TEST Subfield 2 - Test Type equals 02, 10, or 11,</b>                             | <b>POLICE REPORTED ALCOHOL INVOLVEMENT should not equal 8 or 9, and METHOD OF ALCOHOL DETERMINATION BY POLICE should equal 1 or 2.</b> |
| P300        | POLICE REPORTED ALCOHOL INVOLVEMENT equals 1, and INJURY SEVERITY equals 4,                  | ALCOHOL TEST STATUS should not equal 0.                                                                                                |

**Consistency Checks (FARS Only) [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                                                | <b>THEN</b>                                               |
|-----------------|----------------------------------------------------------|-----------------------------------------------------------|
| P110            | METHOD OF ALCOHOL DETERMINATION BY POLICE equals 1-5, 8, | POLICE REPORTED ALCOHOL INVOLVEMENT should equal 0, 1.    |
| P200            | POLICE REPORTED ALCOHOL INVOLVEMENT equals 8, 9,         | METHOD OF ALCOHOL DETERMINATION BY POLICE should equal 9. |

## NM17/P17 - Method of Alcohol Determination by Police - FARS Only

**FORMAT:** 1 numeric

**SAS NAME:** Person.ALC\_DET

**ELEMENT VALUES:**

| Codes | Attributes                                             |
|-------|--------------------------------------------------------|
| 1     | <a href="#">Evidential Test (breath, blood, urine)</a> |
| 2     | <a href="#">Preliminary Breath Test (PBT)</a>          |
| 3     | <a href="#">Standard Field Sobriety Test</a>           |
| 4     | <a href="#">Passive Alcohol Sensor (PAS)</a>           |
| 5     | <a href="#">Observed</a>                               |
| 8     | <a href="#">Other (e.g., Saliva test)</a>              |
| 9     | <a href="#">Not Reported</a>                           |

**Definition:** This element describes **the method by which the police made the determination** as to whether alcohol was involved or not for this person.

**Remarks:** This element's values and remarks are identical to the Person Level (MV Occupant) Level element METHOD OF ALCOHOL DETERMINATION BY POLICE. Please see [METHOD OF ALCOHOL DETERMINATION BY POLICE](#) for remarks.

**Consistency Checks** ([See Section 400](#)):

| Error ID | IF                                                            | THEN                                                                                                                            |
|----------|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| P076     | ALCOHOL TEST Subfield 2 - Test Type equals 02, 10, or 11,     | POLICE REPORTED ALCOHOL INVOLVEMENT should not equal 8 or 9, and METHOD OF ALCOHOL DETERMINATION BY POLICE should equal 1 or 2. |
| P110     | METHOD OF ALCOHOL DETERMINATION BY POLICE equals 1-5, 8,      | POLICE REPORTED ALCOHOL INVOLVEMENT should equal 0, 1.                                                                          |
| P200     | POLICE REPORTED ALCOHOL INVOLVEMENT equals 8, 9,              | METHOD OF ALCOHOL DETERMINATION BY POLICE should equal 9.                                                                       |
| P400     | METHOD OF ALCOHOL DETERMINATION BY POLICE equals 1 or 2,      | ALCOHOL TEST Subfield 1-Test Status must be 2.                                                                                  |
| U681     | UNLIKELY: METHOD OF ALCOHOL DETERMINATION BY POLICE equals 8. | --                                                                                                                              |

**NM18/P18 - Alcohol Test****FORMAT:** 3 sets: 1 set, 1 numeric, 1 set, 2 numeric, 1 set, 3 numeric**SAS NAME:** Person.ALC\_STATUS, Person.ATST\_TYP, Person.ALC\_RES**ELEMENT VALUES:****Subfield 1 - Test Status**

| Codes | Attributes                                    |
|-------|-----------------------------------------------|
| 0     | <a href="#">Test Not Given</a>                |
| 2     | <a href="#">Test Given</a>                    |
| 8     | <a href="#">Not Reported</a>                  |
| 9     | <a href="#">Reported as Unknown if Tested</a> |

**Subfield 2 - Test Type**

| Codes | Attributes                                    |
|-------|-----------------------------------------------|
| 00    | Test Not Given                                |
| 01    | <a href="#">Blood</a>                         |
| 02    | <a href="#">Breath Test (AC)</a>              |
| 10    | <a href="#">Preliminary Breath Test (PBT)</a> |
| 11    | <a href="#">Breath Test, Unknown Type</a>     |
| 03    | <a href="#">Urine</a>                         |
| 04*   | Vitreous                                      |
| 05*   | Blood Plasma/Serum                            |
| 06*   | Blood Clot                                    |
| 07*   | Liver                                         |
| 08    | <a href="#">Other Test Type</a>               |
| 98    | <a href="#">Unknown Test Type</a>             |
| 95    | <a href="#">Not Reported</a>                  |
| 99    | <a href="#">Reported as Unknown if Tested</a> |

**\*FARS ONLY ATTRIBUTES**

### Subfield 3 - Test Result

| Codes   | Attributes                                            |
|---------|-------------------------------------------------------|
| 000-939 | <a href="#">Actual Value</a>                          |
| 940     | .94 or Greater                                        |
| 996     | Test Not Given                                        |
| 997     | <a href="#">AC Test Performed, Results Unknown</a>    |
| 998     | <a href="#">Positive Reading with No Actual Value</a> |
| 995     | <a href="#">Not Reported</a>                          |
| 999     | <a href="#">Reported as Unknown if Tested</a>         |

**Definition for Alcohol Test Status:** This element identifies if an alcohol (ethanol) test was given to this person.

**Definition for Alcohol Test Type:** This element identifies the type of the alcohol (ethanol) test that was used for this person.

**Definition for Alcohol Test Result:** This element identifies the alcohol (ethanol) test result for this person.

**Remarks:** This element's values and remarks are identical to the Person Level (MV Occupant) Level element ALCOHOL TEST. Please see [ALCOHOL TEST](#) for remarks.

**Consistency Checks** ([See Section 400](#)):

| Error ID | IF                                                                                     | THEN                                                                                                                         |
|----------|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| 5T7P     | ALCOHOL TEST STATUS equals 0,                                                          | ALCOHOL TEST TYPE must equal 00, and ALCOHOL TEST RESULT must equal 996.                                                     |
| 5T8P     | ALCOHOL TEST STATUS equals 9,                                                          | ALCOHOL TEST TYPE must equal 99, and ALCOHOL TEST RESULT must equal 999.                                                     |
| 5T9P     | ALCOHOL TEST STATUS equals 2,                                                          | ALCOHOL TEST TYPE must equal 01-11, 95, 98, and ALCOHOL TEST RESULT must equal 000-940, 997, 998.                            |
| 5TCP     | ALCOHOL TEST STATUS equals 8,                                                          | ALCOHOL TEST TYPE must equal 95, and ALCOHOL TEST RESULT must equal 995.                                                     |
| P071     | PERSON TYPE equals 02, 04-07, 10, 11, 12, or 13, and INJURY SEVERITY does not equal 4, | ALCOHOL TEST STATUS should not equal 9, ALCOHOL TEST TYPE should not equal 99, and ALCOHOL TEST RESULT should not equal 999. |
| P074     | PERSON TYPE equals 02, 04-07, 10, 11, 12, or 13, and INJURY SEVERITY does not equal 4, | ALCOHOL TEST TYPE must not equal 8, ALCOHOL TEST TYPE must not equal 95, and ALCOHOL TEST RESULT must not equal 995.         |



| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                         | <b>THEN</b>                                                                                                                                   |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>P076</b>     | <b><i>ALCOHOL TEST Subfield 2 - Test Type equals 02, 10, or 11,</i></b>                                                                                                           | <b><i>POLICE REPORTED ALCOHOL INVOLVEMENT should not equal 8 or 9, and METHOD OF ALCOHOL DETERMINATION BY POLICE should equal 1 or 2.</i></b> |
| <b>P077</b>     | <b><i>INJURY SEVERITY equals 4, and DIED AT SCENE/EN ROUTE equals 7 or 8,</i></b>                                                                                                 | <b><i>ALCOHOL TEST Subfield 2 - Test Type should not equal 02, 10, or 11.</i></b>                                                             |
| P300            | POLICE REPORTED ALCOHOL INVOLVEMENT equals 1, and INJURY SEVERITY equals 4,                                                                                                       | ALCOHOL TEST STATUS should not equal 0.                                                                                                       |
| P400            | METHOD OF ALCOHOL DETERMINATION BY POLICE equals 1 or 2,                                                                                                                          | ALCOHOL TEST Subfield 1-Test Status must be 2.                                                                                                |
| U689            | UNLIKELY: ALCOHOL TEST Subfield 3-Test Result equals 001-009.                                                                                                                     | --                                                                                                                                            |
| U691            | UNLIKELY: ALCOHOL TEST Subfield 3-Test Result equals 010-019.                                                                                                                     | --                                                                                                                                            |
| U692            | UNLIKELY: ALCOHOL TEST Subfield 3-Test Result equals 020-029.                                                                                                                     | --                                                                                                                                            |
| U693            | UNLIKELY: ALCOHOL TEST Subfield 3-Test Result equals 030-039.                                                                                                                     | --                                                                                                                                            |
| U696            | UNLIKELY: ALCOHOL TEST TYPE equals 01, 03, 04, 05, 06, 07, or 08, and ALCOHOL TEST RESULTS is greater than 600, and ALCOHOL TEST RESULTS not equal to 995, 996, 997, 998, or 999. | --                                                                                                                                            |
| U697            | UNLIKELY: ALCOHOL TEST TYPE equals 02, 10, or 11, and ALCOHOL TEST RESULTS is greater than 300, and ALCOHOL TEST RESULTS not equal to 995, 996, 997, 998, or 999.                 | --                                                                                                                                            |

**Consistency Checks (CRSS Only) ([See Section 400](#)):**

| <b>Error ID</b> | <b>IF</b>                               | <b>THEN</b>                                                                       |
|-----------------|-----------------------------------------|-----------------------------------------------------------------------------------|
| <b>P078</b>     | <b><i>INJURY SEVERITY equals 4,</i></b> | <b><i>ALCOHOL TEST Subfield 2 - Test Type should not equal 02, 10, or 11.</i></b> |

## NM19/P19 - Police Reported Drug Involvement

**FORMAT:** 1 numeric

**SAS NAME:** Person.DRUGS

**ELEMENT VALUES:**

| Codes | Attributes                              |
|-------|-----------------------------------------|
| 0     | <a href="#">No (Drugs Not Involved)</a> |
| 1     | <a href="#">Yes (Drugs Involved)</a>    |
| 8     | <a href="#">Not Reported</a>            |
| 9     | <a href="#">Reported as Unknown</a>     |

**Definition:** This data element reflects only **the judgment of law enforcement** as to whether drugs were involved or not for this person.

**Remarks:** This element's values and remarks are identical to the Person Level (MV Occupant) Level element POLICE REPORTED DRUG INVOLVEMENT. Please see [POLICE REPORTED DRUG INVOLVEMENT](#) for remarks.

**Consistency Checks** [\(See Section 400\)](#):

| Error ID | IF                                                              | THEN                                                                                                    |
|----------|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| 4X6F     | any CONDITION (IMPAIRMENT) AT TIME OF CRASH equals 09,          | POLICE REPORTED ALCOHOL INVOLVEMENT, or POLICE REPORTED DRUG INVOLVEMENT must equal 1 for this person.  |
| D090     | VIOLATIONS CHARGED equals 11-19, and PERSON TYPE equals 01, 03, | POLICE REPORTED ALCOHOL INVOLVEMENT should equal 1, or POLICE REPORTED DRUG INVOLVEMENT should equal 1. |

**Consistency Checks (FARS Only)** [\(See Section 400\)](#):

| Error ID | IF                                                 | THEN                                                    |
|----------|----------------------------------------------------|---------------------------------------------------------|
| BQ0P     | METHOD OF DRUG DETERMINATION BY POLICE equals 8,   | POLICE REPORTED DRUG INVOLVEMENT must equal 0, 1, 8, 9. |
| BR0P     | METHOD OF DRUG DETERMINATION BY POLICE equals 1-7, | POLICE REPORTED DRUG INVOLVEMENT must equal 0, 1, 8.    |
| P140     | POLICE REPORTED DRUG INVOLVEMENT equals 8, 9,      | METHOD OF DRUG DETERMINATION BY POLICE should equal 8.  |

| <b>Error ID</b> | <b>IF</b>                                                                                       | <b>THEN</b>                                         |
|-----------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| P150            | POLICE REPORTED DRUG INVOLVEMENT equals 1, and METHOD OF DRUG DETERMINATION BY POLICE equals 2, | DRUG TEST STATUS should not equal 0.                |
| P160            | POLICE REPORTED DRUG INVOLVEMENT equals 1, and METHOD OF DRUG DETERMINATION BY POLICE equals 2, | not all DRUG TEST RESULTS should equal 001.         |
| P170            | METHOD OF DRUG DETERMINATION BY POLICE equals 1-7,                                              | POLICE REPORTED DRUG INVOLVEMENT should equal 0, 1. |

## NM20/P20 - Method of Drug Determination by Police - FARS Only

**FORMAT:** 1 numeric

**SAS NAME:** Person.DRUG\_DET

### ELEMENT VALUES

| Codes | Attributes                                                   |
|-------|--------------------------------------------------------------|
| 1     | <a href="#">Evidential Test (Blood, Urine)</a>               |
| 2     | <a href="#">Drug Recognition Expert (or Evaluator) (DRE)</a> |
| 3     | <a href="#">Observed Behavior or SFST</a>                    |
| 7     | <a href="#">Other</a>                                        |
| 8     | <a href="#">Not Reported</a>                                 |

**Definition:** This element identifies **the method by which the police made the determination** as to whether drugs were involved or not for this person.

**Remarks:** This element's values and remarks are identical to the Person Level (MV Occupant) Level element METHOD OF DRUG DETERMINATION BY POLICE. Please see [METHOD OF DRUG DETERMINATION BY POLICE](#) for remarks.

### Consistency Checks [\(See Section 400\)](#):

| Error ID | IF                                                                                              | THEN                                                      |
|----------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| BQ0P     | METHOD OF DRUG DETERMINATION BY POLICE equals 8,                                                | POLICE REPORTED DRUG INVOLVEMENT must equal 0, 1, 8, 9.   |
| BR0P     | METHOD OF DRUG DETERMINATION BY POLICE equals 1-7,                                              | POLICE REPORTED DRUG INVOLVEMENT must equal 0, 1, 8.      |
| P140     | POLICE REPORTED DRUG INVOLVEMENT equals 8, 9,                                                   | METHOD OF DRUG DETERMINATION BY POLICE should equal 8.    |
| P150     | POLICE REPORTED DRUG INVOLVEMENT equals 1 and METHOD OF DRUG DETERMINATION BY POLICE equals 2,  | DRUG TEST STATUS should not equal 0.                      |
| P160     | POLICE REPORTED DRUG INVOLVEMENT equals 1, and METHOD OF DRUG DETERMINATION BY POLICE equals 2, | not all DRUG TEST RESULTS should equal 001.               |
| P170     | METHOD OF DRUG DETERMINATION BY POLICE equals 1-7,                                              | POLICE REPORTED DRUG INVOLVEMENT should equal 0, 1.       |
| P401     | METHOD OF DRUG DETERMINATION BY POLICE equals 1,                                                | DRUG TOXICOLOGY RESULTS Subfield 1-Test Status must be 2. |

## NM21/P21 - Drug Toxicology Results - FARS Only

**FORMAT:** 1 set 1 numeric; Unlimited, 2 numeric; Unlimited, 3 numeric

**SAS NAME:** Person.DSTATUS, Drugs.DRUGSPEC, Drugs.DRUGRES

### ELEMENT VALUES:

#### Subfield 1 - Drug Test Status

| FARS Codes | Attributes                                    |
|------------|-----------------------------------------------|
| 0          | <a href="#">Test Not Given</a>                |
| 2          | <a href="#">Test Given</a>                    |
| 8          | <a href="#">Not Reported</a>                  |
| 9          | <a href="#">Reported as Unknown if Tested</a> |

#### Subfield 2 - Drug Specimen

| FARS Codes | Attributes                                    |
|------------|-----------------------------------------------|
| 00         | Test Not Given                                |
| 01         | <a href="#">Whole Blood</a>                   |
| 02         | <a href="#">Urine</a>                         |
| 11         | <a href="#">Blood Plasma/Serum</a>            |
| 12         | <a href="#">Blood Clot</a>                    |
| 13         | <a href="#">Oral Fluids</a>                   |
| 14         | <a href="#">Vitreous</a>                      |
| 15         | <a href="#">Liver</a>                         |
| 97         | <a href="#">Unknown Specimen</a>              |
| 98         | <a href="#">Other Specimen</a>                |
| 96         | <a href="#">Not Reported</a>                  |
| 99         | <a href="#">Reported as Unknown if Tested</a> |

#### Subfield 3 - Drug Test Result\*\*

| FARS Codes | Attributes                                      |
|------------|-------------------------------------------------|
| 000        | <a href="#">Test Not Given</a>                  |
| 001        | <a href="#">Tested, No Drugs Found/Negative</a> |
| 100-295    | <a href="#">Narcotic*</a>                       |

| FARS Codes | Attributes                                                           |
|------------|----------------------------------------------------------------------|
| 300-399    | <a href="#">Depressant*</a>                                          |
| 400-495    | <a href="#">Stimulant*</a>                                           |
| 500-595    | <a href="#">Hallucinogen*</a>                                        |
| 600-695    | <a href="#">Cannabinoid*</a>                                         |
| 700-795    | <a href="#">Phencyclidine (PCP)*</a>                                 |
| 800-895    | <a href="#">Anabolic Steroid*</a>                                    |
| 900-995    | <a href="#">Inhalant*</a>                                            |
| 996        | <a href="#">Other Drug</a>                                           |
| 997        | <a href="#">Tested for Drugs, Results Unknown</a>                    |
| 998        | <a href="#">Tested for Drugs, Drugs Found, Type Unknown/Positive</a> |
| 095        | <a href="#">Not Reported</a>                                         |
| 999        | <a href="#">Reported as Unknown If Tested for Drugs</a>              |

[\\* See Specific Drug Listings](#)

**\*\* Test Result does not include aspirin, nicotine, or ethanol. Alcohols reported other than ethanol would be classified under [996 \(Other Drug\)](#).**

**Definition for Drug Test Status:** This element identifies if a chemical test for the presence of drugs was given to this person.

**Definition for Drug Specimen:** This element identifies the bodily tissue or fluid used to perform a chemical test for the presence of drugs in this person.

**Definition for Drug Test Result:** This element records the result of a chemical test for the presence of drugs in this person.

**Remarks:** This element's values and remarks are identical to the Person Level (MV Occupant) Level element DRUG TOXICOLOGY RESULTS. Please see [DRUG TOXICOLOGY RESULTS](#) for remarks.

See [Alphabetical Drug Index](#) and [Drugs by Category](#) under element DRUG TOXICOLOGY RESULTS. Also reference "[Examples for Interpreting Drug Tests](#)" under element DRUG TOXICOLOGY RESULTS.

**Consistency Checks ([See Section 400](#)):**

| Error ID | IF                                                                                                          | THEN                                                                                                                  |
|----------|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| 7M1F     | PERSON TYPE equals 03, and SEATING POSITION is not equal to 11 or 13, and INJURY SEVERITY does not equal 4, | DRUG TEST STATUS must not equal 8, any DRUG SPECIMEN must not equal 96, and any DRUG TEST RESULTS must not equal 095. |
| BT0P     | DRUG TEST STATUS equals 2,                                                                                  | any DRUG SPECIMEN must not equal 00 or 99 and any DRUG TEST RESULT must not equal 000 or 999.                         |

| <b>Error ID</b> | <b>IF</b>                                                                                                                   | <b>THEN</b>                                                                                                                                                                                                   |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BT1P            | DRUG TEST STATUS equals 0,                                                                                                  | there must exist only one DRUG SPECIMEN equal to 00 and one DRUG TEST RESULT equal to 000 for this person.                                                                                                    |
| BT2P            | DRUG TEST STATUS equals 8,                                                                                                  | there must exist only one DRUG SPECIMEN equal to 96 and one DRUG TEST RESULT equal to 095 for this person.                                                                                                    |
| BT3P            | DRUG TEST STATUS equals 2,                                                                                                  | at least one DRUG SPECIMEN must equal 01, 02, 11-15, 96, 97, 98, and one corresponding DRUG TEST RESULT must equal 001, 095, 100-295, 300-395, 400-495, 500-595, 600-695, 700-795, 800-895, 900-995, 996-998. |
| BT6P            | DRUG TEST STATUS equals 9,                                                                                                  | there must exist only one DRUG SPECIMEN equal to 99 and one DRUG TEST RESULT equal to 999 for this person.                                                                                                    |
| BT8P            | DRUG TEST RESULT does not equal 996,                                                                                        | only one record with the same DRUG SPECIMEN and DRUG TEST RESULT must exist.                                                                                                                                  |
| P073            | PERSON TYPE equals 02, 04- <b>07</b> , 10, <b>11</b> , <b>12</b> , <b>or 13</b> , and INJURY SEVERITY does not equal 4,     | DRUG TEST STATUS should not equal 9, and any DRUG SPECIMEN should not equal 99, and any DRUG TEST RESULTS should not equal 999.                                                                               |
| P075            | PERSON TYPE equals 02, 04- <b>07</b> , 10, <b>11</b> , <b>12</b> , <b>13</b> , or 19, and INJURY SEVERITY does not equal 4, | DRUG TEST STATUS must not equal 8, any DRUG SPECIMEN must not equal 96, and any DRUG TEST RESULTS must not equal 095.                                                                                         |
| P150            | POLICE REPORTED DRUG INVOLVEMENT equals 1 and METHOD OF DRUG DETERMINATION BY POLICE equals 2,                              | DRUG TEST STATUS should not equal 0.                                                                                                                                                                          |
| P160            | POLICE REPORTED DRUG INVOLVEMENT equals 1, and METHOD OF DRUG DETERMINATION BY POLICE equals 2,                             | not all DRUG TEST RESULTS should equal 001.                                                                                                                                                                   |
| P401            | METHOD OF DRUG DETERMINATION BY POLICE equals 1,                                                                            | DRUG TOXICOLOGY RESULTS Subfield 1-Test Status must be 2.                                                                                                                                                     |

## NM22/P22 - Transported to First Medical Facility By

**FORMAT:** 1 numeric

**SAS NAME:** Person.HOSPITAL

**ELEMENT VALUES:**

| Codes | Attributes                                           |
|-------|------------------------------------------------------|
| 0     | <a href="#">Not Transported <i>for Treatment</i></a> |
| 1     | <a href="#">EMS Air</a>                              |
| 5     | <a href="#">EMS Ground</a>                           |
| 3     | <a href="#">EMS Unknown Mode</a>                     |
| 2     | <a href="#">Law Enforcement</a>                      |
| 4     | <a href="#">Transported Unknown Source</a>           |
| 6     | <a href="#">Other</a>                                |
| 8     | <a href="#">Not Reported</a>                         |
| 9     | <a href="#">Reported as Unknown</a>                  |

**Definition:** This element identifies the method of transportation this person was provided to receive treatment at the first hospital or medical facility.

**Remarks:** This element's values and remarks are identical to the Person Level (MV Occupant) Level element TRANSPORTED TO FIRST MEDICAL FACILITY BY. Please see [TRANSPORTED TO FIRST MEDICAL FACILITY BY](#) for remarks.

**Consistency Checks** ([See Section 400](#)):

| Error ID | IF                        | THEN                                                         |
|----------|---------------------------|--------------------------------------------------------------|
| 2U3F     | INJURY SEVERITY equals 3, | TRANSPORTED TO FIRST MEDICAL FACILITY BY should not equal 0. |
| P090     | INJURY SEVERITY equals 0, | TRANSPORTED TO FIRST MEDICAL FACILITY BY must equal 0.       |

**Consistency Checks (FARS Only)** ([See Section 400](#)):

| Error ID | IF                                                       | THEN                                                                              |
|----------|----------------------------------------------------------|-----------------------------------------------------------------------------------|
| A551     | EMS TIME AT HOSPITAL equals 8888, 9997, 9998,            | TRANSPORTED TO FIRST MEDICAL FACILITY BY should not equal 1, 3, 5 for any person. |
| P091     | TRANSPORTED TO FIRST MEDICAL FACILITY BY equals 1, 3, 5, | EMS TIME AT HOSPITAL should not equal 8888, 9997, 9998.                           |



| <b>Error ID</b> | <b>IF</b>                                                                           | <b>THEN</b>                                                                                        |
|-----------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| P093            | all persons TRANSPORTED TO FIRST MEDICAL FACILITY BY equals 2, <b>or 6</b> ,        | NOTIFICATION TIME EMS, ARRIVAL TIME EMS, EMS TIME AT HOSPITAL must equal 8888.                     |
| P095            | TRANSPORTED TO FIRST MEDICAL FACILITY BY equals 0 for every person in the case,     | EMS TIME AT HOSPITAL must not equal 0000-2399, 9999.                                               |
| P520            | CRASH DATE and DEATH DATE are the same, and CRASH TIME AND DEATH TIME are the same, | TRANSPORTED TO FIRST MEDICAL FACILITY BY should equal 0 and DIED AT SCENE/EN ROUTE should equal 7. |
| P50P            | DIED AT SCENE/EN ROUTE equals 7,                                                    | TRANSPORTED TO FIRST MEDICAL FACILITY BY must equal 0.                                             |
| P51P            | DIED AT SCENE/EN ROUTE equals 8,                                                    | TRANSPORTED TO FIRST MEDICAL FACILITY BY must equal 1-6.                                           |
| P52P            | DIED AT SCENE/EN ROUTE equals 9,                                                    | TRANSPORTED TO FIRST MEDICAL FACILITY BY must equal 8 or 9.                                        |
| P55P            | TRANSPORTED TO FIRST MEDICAL FACILITY BY equals 9,                                  | DIED AT SCENE/EN ROUTE must equal 0, 9.                                                            |

**NM23/P23 - Died at Scene/En Route - FARS Only****FORMAT:** 1 numeric**SAS NAME:** Person.DOA**ELEMENT VALUES:**

| Codes | Attributes                     |
|-------|--------------------------------|
| 0     | <a href="#">Not Applicable</a> |
| 7     | <a href="#">Died at Scene</a>  |
| 8     | <a href="#">Died En Route</a>  |
| 9     | <a href="#">Unknown</a>        |

**Definition:** This element identifies if this person died at the scene of the crash or en route to a hospital or treatment facility.

**Remarks:** This element's values and remarks are identical to the Person Level (MV Occupant) Level element DIED AT SCENE/EN ROUTE. Please see [DIED AT SCENE/EN ROUTE](#) for remarks.

**Consistency Checks** ([See Section 400](#)):

| Error ID | IF                                                                                  | THEN                                                                                               |
|----------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| 1R1P     | If DIED AT SCENE/EN ROUTE equals 7, 8,                                              | INJURY SEVERITY must equal 4.                                                                      |
| P077     | <i>INJURY SEVERITY equals 4, and DIED AT SCENE/EN ROUTE equals 7 or 8,</i>          | <i>ALCOHOL TEST Subfield 2 - Test Type should not equal 02, 10, or 11.</i>                         |
| P50P     | DIED AT SCENE/EN ROUTE equals 7,                                                    | TRANSPORTED TO FIRST MEDICAL FACILITY BY must equal 0.                                             |
| P510     | EMS TIME AT HOSPITAL equals 8888, 9997, 9998,                                       | DIED AT SCENE/EN ROUTE should not equal 8 for any PERSON.                                          |
| P51P     | DIED AT SCENE/EN ROUTE equals 8,                                                    | TRANSPORTED TO FIRST MEDICAL FACILITY BY must equal 1-6.                                           |
| P520     | CRASH DATE and DEATH DATE are the same, and CRASH TIME AND DEATH TIME are the same, | TRANSPORTED TO FIRST MEDICAL FACILITY BY should equal 0 and DIED AT SCENE/EN ROUTE should equal 7. |
| P52P     | DIED AT SCENE/EN ROUTE equals 9,                                                    | TRANSPORTED TO FIRST MEDICAL FACILITY BY must equal 8 or 9.                                        |
| P530     | EMS TIME AT HOSPITAL equals 9996,                                                   | DIED AT SCENE/EN ROUTE must equal 8 for at least one person.                                       |
| P53P     | INJURY SEVERITY equals 0-3, 5, 6,                                                   | DIED AT SCENE/EN ROUTE must equal 0.                                                               |
| P54P     | DIED AT SCENE/EN ROUTE equals 8,                                                    | EMS TIME AT HOSPITAL should not equal 8888, 9997, 9998.                                            |

| <b>Error ID</b> | <b>IF</b>                                          | <b>THEN</b>                                               |
|-----------------|----------------------------------------------------|-----------------------------------------------------------|
| P55P            | TRANSPORTED TO FIRST MEDICAL FACILITY BY equals 9, | DIED AT SCENE/EN ROUTE must equal 0, 9.                   |
| P56P            | DIED AT SCENE/EN ROUTE equals 7,                   | DEATH TIME should be within 30 minutes of the CRASH TIME. |

**NM24/P24 - Death Date - FARS Only****FORMAT:** 2 sets of 2 numeric, 1 set of 4 numeric**SAS NAME:** Person.DEATH\_DA, Person.DEATH\_MO, Person.DEATH\_YR**ELEMENT VALUES:****Month:**

| Codes | Attributes                 |
|-------|----------------------------|
| 88    | Not Applicable (Non-fatal) |
| 01-12 | Month of the Year          |
| 99    | Unknown                    |

**Day:**

| Codes | Attributes                 |
|-------|----------------------------|
| 88    | Not Applicable (Non-fatal) |
| 01-31 | Day of the Month           |
| 99    | Unknown                    |

**Year:**

| Codes | Attributes                 |
|-------|----------------------------|
| 8888  | Not Applicable (Non-fatal) |
| --    | Actual Year of Death       |
| 9999  | Unknown                    |

**Definition:** This element records the month, day, and year of this person's death.**Remarks:** This element's values and remarks are identical to the Person Level (MV Occupant) Level element DEATH DATE. Please see [DEATH DATE](#) for remarks.**Consistency Checks ([See Section 400](#)):**

| Error ID | IF                                                       | THEN                                           |
|----------|----------------------------------------------------------|------------------------------------------------|
| 1U1F     | INJURY SEVERITY equals 4,                                | DEATH DATE must not equal 88888888.            |
| 1V0P     | DEATH MONTH or DAY equals 88, or DEATH YEAR equals 8888, | all must equal 8s.                             |
| 2U1F     | INJURY SEVERITY is not equal to 4,                       | DEATH DATE must equal 88888888.                |
| 2V0P     | DEATH DAY is 01-31, and DEATH MONTH is 01-12,            | DEATH DAY must be a valid day for DEATH MONTH. |

| <b>Error ID</b> | <b>IF</b>                                                                                           | <b>THEN</b>                                                                                          |
|-----------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| 3U1P            | DEATH DATE equals CRASH DATE, and CRASH HOUR is not equal to 99,                                    | DEATH HOUR must not be less than CRASH HOUR.                                                         |
| 3U2P            | DEATH DATE equals CRASH DATE, and DEATH HOUR equals CRASH HOUR and CRASH MINUTE is not equal to 99, | DEATH MINUTE must not be less than CRASH MINUTE.                                                     |
| 4V1F            | INJURY SEVERITY equals 4,                                                                           | DEATH DATE and DEATH TIME for this person must be within 720 hours of the CRASH DATE and CRASH TIME. |
| 4V2F            | CRASH MONTH equals 12, and DEATH MONTH equals 01,                                                   | DEATH YEAR must equal CRASH YEAR plus 1.                                                             |
| 4V3F            | CRASH MONTH equals 12,                                                                              | DEATH MONTH must equal 01, 12, 88, 99.                                                               |
| 4V4F            | CRASH MONTH equals 02-11, and DEATH MONTH is not equal to 88 or 99,                                 | DEATH MONTH must equal CRASH MONTH or CRASH MONTH plus 1.                                            |
| 4V5F            | CRASH MONTH equals 01, and DEATH MONTH is not equal to 88 or 99,                                    | DEATH MONTH must equal CRASH MONTH or CRASH MONTH plus 1 or CRASH MONTH plus 2.                      |
| 4V6P            | DEATH MONTH is not equal to blanks,                                                                 | DEATH DAY and DEATH YEAR must not equal blanks.                                                      |
| 4V7P            | DEATH DAY is not equal to blanks,                                                                   | DEATH MONTH and DEATH YEAR must not equal blanks.                                                    |
| 4V8P            | DEATH YEAR is not equal to blanks,                                                                  | DEATH MONTH and DEATH DAY must not equal blanks.                                                     |
| 6V0P            | DEATH DATE must not be less than CRASH DATE.                                                        | --                                                                                                   |
| 7V0F            | DEATH YEAR equals 9999,                                                                             | CRASH MONTH must not be 01-11.                                                                       |
| 8V0P            | DEATH YEAR equals 9999,                                                                             | DEATH MONTH and DEATH DAY must equal 99.                                                             |
| 9V0P            | DEATH MONTH equals 99,                                                                              | DEATH DAY must equal 99.                                                                             |
| P520            | CRASH DATE and DEATH DATE are the same, and CRASH TIME and DEATH TIME are the same,                 | TRANSPORTED TO FIRST MEDICAL FACILITY BY should equal 0 and DIED AT SCENE/EN ROUTE should equal 7.   |
| P56P            | DIED AT SCENE/EN ROUTE equals 7,                                                                    | DEATH TIME should be within 30 minutes of the CRASH TIME.                                            |

## NM25/P25 - Death Time - FARS Only

**FORMAT:** 4 numeric

**SAS NAME:** Person.DEATH\_HR, Person.DEATH\_MN, Person.DEATH\_TM

### ELEMENT VALUES:

| Codes     | Attributes                                     |
|-----------|------------------------------------------------|
| 8888      | Not Applicable (Non-fatal)                     |
| 0000-2359 | Valid Military Time                            |
| 0099-2399 | <a href="#">Known Hour but Unknown Minutes</a> |
| 9999      | <a href="#">Unknown</a>                        |

**Definition:** This element identifies the hour and minute of this person's death using the 24-hour clock format.

**Remarks:** This element's values and remarks are identical to the Person Level (MV Occupant) Level element DEATH TIME. Please see [DEATH TIME](#) for remarks.

**See the [Coding Guide: TIME: Crash Times, EMS Times, Death Times](#) for helpful information.**

### Consistency Checks ([See Section 400](#)):

| Error ID | IF                                                                                                  | THEN                                                                                                 |
|----------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| 1U2F     | INJURY SEVERITY equals 4,                                                                           | DEATH TIME must not equal 8888.                                                                      |
| 2U2F     | INJURY SEVERITY is not equal to 4,                                                                  | DEATH TIME must equal 8888.                                                                          |
| 3U1P     | DEATH DATE equals CRASH DATE, and CRASH HOUR is not equal to 99,                                    | DEATH HOUR must not be less than CRASH HOUR.                                                         |
| 3U2P     | DEATH DATE equals CRASH DATE, and DEATH HOUR equals CRASH HOUR and CRASH MINUTE is not equal to 99, | DEATH MINUTE must not be less than CRASH MINUTE.                                                     |
| 4V1F     | INJURY SEVERITY equals 4,                                                                           | DEATH DATE and DEATH TIME for this person must be within 720 hours of the CRASH DATE and CRASH TIME. |
| P520     | CRASH DATE and DEATH DATE are the same, and CRASH TIME AND DEATH TIME are the same,                 | TRANSPORTED TO FIRST MEDICAL FACILITY BY should equal 0 and DIED AT SCENE/EN ROUTE should equal 7.   |
| P56P     | DIED AT SCENE/EN ROUTE equals 7,                                                                    | DEATH TIME should be within 30 minutes of the CRASH TIME.                                            |

**NM26 - Related Factors - Person (Not A Motor Vehicle Occupant) Level**

**FORMAT:** 3 numeric. *Select All That Apply.*

**SAS NAME:** *PersonRF.PERSONRF*

**ELEMENT VALUES:**

| Codes | Attributes                                                                                                         |
|-------|--------------------------------------------------------------------------------------------------------------------|
| 000   | <a href="#">None</a>                                                                                               |
| *008  | <a href="#">Mentally Challenged</a>                                                                                |
| 009   | <a href="#">Construction/Maintenance/Utility Worker</a>                                                            |
| 010   | <a href="#">Alcohol and/or Drug Test Refused</a>                                                                   |
| 013   | <a href="#">Motorized Wheelchair Rider</a>                                                                         |
| *018  | <a href="#">Mother of Dead Fetus/ Mother of Infant Born Post Crash</a>                                             |
| *021  | <a href="#">Overloading or Improper Loading of Vehicle with Passengers or Cargo</a>                                |
| *026  | <a href="#">Following Improperly</a>                                                                               |
| *037  | <a href="#">Traveling on Prohibited Trafficways</a>                                                                |
| *040  | <a href="#">Passing Through or Around Barrier</a>                                                                  |
| *041  | <a href="#">Failure to Observe Warnings or Instructions on Vehicles Displaying Them</a>                            |
| *042  | <a href="#">Failure to Signal Intentions</a>                                                                       |
| *051  | <a href="#">Operator Inexperience</a>                                                                              |
| *052  | <a href="#">Unfamiliar with Roadway</a>                                                                            |
| 053   | <a href="#">Non-Motorist Previously Used a Motor Vehicle for Motion</a>                                            |
| 054   | <a href="#">Non-Motorist Attempting to Use a Motor Vehicle for Motion</a>                                          |
| 055   | <a href="#">Non-Motorist Attempting to Use or Previously Used a Motor Vehicle for Motion, Details Not Reported</a> |
| 056   | <a href="#">Non-Driver Flees Scene</a>                                                                             |
| *057  | <a href="#">Improper Tire Pressure</a>                                                                             |
| 100   | <a href="#">Using a Shared Micromobility Device</a>                                                                |

**Vision Obscured By:**

| Codes | Attributes                                                                                  |
|-------|---------------------------------------------------------------------------------------------|
| *060  | <a href="#">Rain, Snow, Fog, Smoke, Sand, Dust</a>                                          |
| *061  | <a href="#">Reflected Glare, Bright Sunlight, Headlights</a>                                |
| *062  | <a href="#">Curve, Hill, or Other Design Features (including traffic signs, embankment)</a> |
| *063  | <a href="#">Building, Billboard, Other Structures</a>                                       |

| <b>Codes</b> | <b>Attributes</b>                                  |
|--------------|----------------------------------------------------|
| *064         | <a href="#">Trees, Crops, Vegetation</a>           |
| *065         | <a href="#">Motor Vehicle (including load)</a>     |
| *066         | <a href="#">Parked Vehicle</a>                     |
| *067         | <a href="#">Splash or Spray of Passing Vehicle</a> |
| *068         | <a href="#">Inadequate Lighting System</a>         |
| *069         | <a href="#">Obstructing Angles on Vehicle</a>      |
| *070         | <a href="#">Mirrors</a>                            |
| *072         | <a href="#">Other Visual Obstruction</a>           |

### **Skidding, Swerving, Sliding Due To:**

| <b>Codes</b> | <b>Attributes</b>                                                            |
|--------------|------------------------------------------------------------------------------|
| *073         | <a href="#">Severe Crosswind</a>                                             |
| *074         | <a href="#">Wind from Passing Truck</a>                                      |
| *075         | <a href="#">Slippery or Loose Surface</a>                                    |
| *076         | <a href="#">Tire Blowout or Flat</a>                                         |
| *077         | <a href="#">Debris or Objects in Road</a>                                    |
| *078         | <a href="#">Ruts, Holes, Bumps in Road</a>                                   |
| *080         | <a href="#">Vehicle in Road</a>                                              |
| *081         | <a href="#">Phantom Vehicle</a>                                              |
| *082         | <a href="#">Pedestrian, Pedal Cyclists, or Other Non-Motorist</a>            |
| *083         | <a href="#">Ice, Snow, Slush, Water, Sand, Dirt, Oil, Wet Leaves on Road</a> |

### **Other Non-Motorist Factors:**

| <b>Codes</b> | <b>Attributes</b>                                                                                 |
|--------------|---------------------------------------------------------------------------------------------------|
| 087          | <a href="#">Police or Law Enforcement Officer</a>                                                 |
| 094          | <a href="#">Emergency Medical Services Personnel</a>                                              |
| 095          | <a href="#">Fire Personnel</a>                                                                    |
| 096          | <a href="#">Tow Operator</a>                                                                      |
| 097          | <a href="#">Transportation (i.e., maintenance workers, safety service patrol operators, etc.)</a> |
| 090          | <a href="#">Non-Motorist Pushing a Vehicle</a>                                                    |
| 091          | <a href="#">Portable Electronic Devices</a>                                                       |
| 093          | <a href="#">Non-Motorist Wearing Motorcycle Helmet</a>                                            |



| Codes | Attributes                                              |
|-------|---------------------------------------------------------|
| 031   | <a href="#">Default Code Used for Vehicle Numbering</a> |
| 101   | <a href="#">Obstructed Sidewalk (for this Person)</a>   |
| 999   | <a href="#">Reported as Unknown</a>                     |

**\*FARS ONLY ATTRIBUTES**

**Definition:** This element identifies factors related to people not in a motor vehicle expressed in the case material.

**Remarks:** Code information provided in the case material associated with this person.

The following lists those related factors that may be used for each [PERSON TYPE](#):

| Person Type                                                                               | Valid Related Factors                                                                                                        |
|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">04 (Occupant of a Non-Motor Vehicle Transport Device)</a>                     | 000, 008, 009, 010, 018, 021, 026, 031, 037, 040-042, 051, 052, 056, 057, 060-070, 072-078, 080-083, 087, 091, 093, 097, 999 |
| <a href="#">05 (Pedestrian)</a>                                                           | 000, 008, 009, 010, 018, 031, 037, 041, 053-056, 060-067, 072, 087, 090, 091, 093-097, 101, 999                              |
| <a href="#">06 (Bicyclist)</a>                                                            | 000, 008, 010, 018, 021, 026, 031, 037, 040-042, 051-057, 060-068, 072-078, 080-083, 087, 091, 093-097, 100, 101, 999        |
| <a href="#">07 (Other Cyclist)</a>                                                        | 000, 008, 010, 018, 021, 026, 031, 037, 040-042, 051-057, 060-068, 072-078, 080-083, 091, 093, 101, 999                      |
| <a href="#">10 (Persons In/On Buildings)</a>                                              | 000, 008, 010, 013, 018, 026, 031, 087, 093, 999                                                                             |
| <a href="#">11 (Person on Motorized Personal Conveyance)</a>                              | 000, 008, 010, 013, 018, 021, 026, 031, 037, 040-042, 051-057, 060-070, 072-078, 080-083, 087, 091, 093, 100, 101, 999       |
| <a href="#">12 (Person on Non-Motorized Personal Conveyance)</a>                          | 000, 008, 010, 018, 021, 026, 031, 037, 040-042, 051-057, 060-070, 072-078, 080-083, 087, 091, 093, 100, 101, 999            |
| <a href="#">13 (Person on Personal Conveyance, Unknown if Motorized or Non-Motorized)</a> | 000, 008, 010, 018, 021, 026, 031, 037, 040-042, 051-057, 060-070, 072-078, 080-083, 087, 091, 093, 100, 101, 999            |
| <a href="#">09 (Unknown Type of Non-Motorist)</a>                                         | 000, 008, 009, 010, 018, 021, 026, 031, 037, 040-042, 051-057, 060-068, 072-078, 080-083, 086, 087, 091, 093-097, 101, 999   |

**000 (None)** is used when no applicable related factors are noted in the crash report *for this person*.

**\*008 (Mentally Challenged)** is used when the case material identifies *this person has an intellectual, cognitive, or developmental disability*.

**009 (Construction/Maintenance/Utility Worker)** is used when the case material identifies that this was a non-motorist working with the highway department, a contractor, or a utility company at the time of the crash.

**010 (Alcohol and/or Drug Test Refused)** is used when the officer notes that this person refused to take an alcohol and/or a drug test. Refusing a test does not necessarily mean that a test was not given. It is possible that after a refusal, the officer may have obtained a warrant or some other authorization to

administer a test post-refusal. This includes when the person initially refuses and later consents. Because of this, it is possible to code **010 (Alcohol and/or Drug Test Refused)** and also code an actual test with results for the same person.

**013 (Motorized Wheelchair Rider)** is used when the case material identifies the non-motorist is in a motorized wheelchair (personal conveyance). *The PERSON TYPE for this person must be [11 \(Person on Motorized Personal Conveyance\)](#).*

**\*018 (Mother of Dead Fetus/Mother of Infant Born Post Crash)** is used when the case material identifies that this non-motorist is the mother of a fetus that died in or as a result of this crash or it is identified that this non-motorist gave birth after the crash whether the child survives or not. Note that for crash classification purposes, a fetus is considered to be part of a pregnant woman rather than a separate individual and, thus, is not counted as a separate person in the crash.

**\*021 (Overloading or Improper Loading of Vehicle with Passengers or Cargo)** is used when the case material describe more than one non-motorist is occupying one seating position at the time of the crash. For example, overloading a bicycle with a passenger riding on the handlebars.

**\*026 (Following Improperly)** is used when the case material identifies that this non-motorist was following a bicyclist, motor vehicle, non-motor vehicle transport device, or person on a personal conveyance too closely as to create a dangerous situation.

**Examples include:**

- A non-motorist (bicyclist, skateboard rider, rollerblader, etc.) who attempts to grab on to a motor vehicle that is in-transport.
- A bicyclist is following a vehicle so closely that as it passes or takes an avoidance maneuver around one vehicle going in the same direction as the bicyclist, the bicyclist strikes the rear of the vehicle it was attempting to pass or the rear of another vehicle in the adjacent lane also going the same direction.

**\*037 (Traveling on Prohibited Trafficways)** is used when the case material identifies that this non-motorist was traveling on an open trafficway that prohibited travel for their mode of transportation. This applies to all forms of pedestrian travel (skateboard riders, rollerbladers, etc.), as well as horseback riders, carriages, bicyclists, etc.

**\*040 (Passing Through or Around Barrier)** is used when the case material identifies this non-motorist was traveling through or around a “demarcated” area to be in a prohibited area (street closed for a parade, construction, sidewalk closed, etc.).

**\*041 (Failure to Observe Warnings or Instructions on Vehicles Displaying Them)** is used when the case material identifies this non-motorist failed to heed warnings or follow instructions displayed on other vehicles.

**Examples include:**

- A non-motorist failed to follow construction instructions (e.g., arrows directing traffic mounted on a vehicle) or instructions on emergency vehicles (ambulances, fire trucks, police cars).
- A non-motorist failed to observe right-turn warning on a truck or buses.
- A bicyclist failed to heed hazard lights on a disabled vehicle.

- A child failed to walk around the school bus arm that was extended into the travel lane that permitted the bus driver to see the child in the roadway.

**\*042 (Failure to Signal Intentions)** is used when the case material identifies this non-motorist failed to signal their intentions as required. This attribute includes a failure to signal by either lamp turn signal or hand.

**\*051 (Operator Inexperience)** is used when the case material identifies this non-motorist's (horseback rider, skate boarder, bicyclist without training wheels, etc.) lack of experience contributed to their involvement. Should be expressed by officer and not presumed based on age.

**\*052 (Unfamiliar with Roadway)** is used when the case material identifies this non-motorist's (horseback rider, skate boarder, bicyclist without training wheels, etc.) lack of familiarity with the area/location where the crash occurred contributed to their involvement. Should be expressed by officer and not presumed based on age.

**053 (NM Previously Used a Motor Vehicle for Motion)** is used when the case material identifies this Non-Motorist was known to have been using a motor vehicle in-transport for the purpose of motion just prior to the onset of the unstabilized situation (e.g., "skitching"). This person may have been connected to the motor vehicle in-transport by any means (hand grasp, tow rope, etc.) and could be or could have been using a non-motorist device (bicycle, skateboard, hoverboard, sled, etc.) while connected. It must be clear that the person was no longer connected at the onset of the unstabilized situation. Also see NON-MOTORIST CONTRIBUTING CIRCUMSTANCES code [18 \(Operating in Other Erratic, Reckless, Careless, or Negligent Manner\)](#) to see if it applies. Unintentionally losing connection to a motor vehicle must not be the onset of the unstabilized situation (see SEATING POSITION [56 \[Appended to a Motor Vehicle for Motion\]](#)).

**054 (NM Attempting to Use a Motor Vehicle for Motion)** is used when the case material identifies this Non-Motorist was known to have been attempting to use a motor vehicle for the purpose of motion prior to the onset of the unstabilized situation (e.g., "skitching"). This person could have been attempting to connect to the motor vehicle in-transport by any means (hand grasp, tow rope, etc.) and could be or could have been using a non-motorist device (bicycle, skateboard, hoverboard, sled, etc.) while attempting to make connection. It must be clear that the non-motorist was attempting to connect and not already connected or previously connected at the onset of the unstabilized situation. Also see NON-MOTORIST CONTRIBUTING CIRCUMSTANCES code [18 \(Operating in Other Erratic, Reckless, Careless, or Negligent Manner\)](#) to see if it applies.

**055 (NM Attempting to Use or Previously Used a Motor Vehicle for Motion, Details Not Reported)** is used when the case material identifies this Non-Motorist was known to have been either previously using or attempting to use a motor vehicle in-transport for the purpose of motion prior to the onset of the unstabilized situation ([Code 053](#) or [Code 054](#)); however, the case material does not provide enough information to specify one code or the other. It must be clear that the person was not connected to a motor vehicle in-transport at the onset of the unstabilized situation. (See SEATING POSITION [56 \[Appended to a Motor Vehicle for Motion\]](#).) Also see NON-MOTORIST CONTRIBUTING CIRCUMSTANCES code [18 \(Operating in Other Erratic, Reckless, Careless, or Negligent Manner\)](#) to see if it applies.

**056 (Non-Driver Flees Scene)** is used when the case material identifies this non-motorist left the scene of a hit-and-run crash.

**Examples Include:**

- A bicyclist clipped by a vehicle that runs off the road and overturns, leaves the scene on their bike.
- A pedestrian is pushing an occupied wheelchair, which is struck by a motor vehicle. The pedestrian panics and flees the scene.

**\*057 (Improper Tire Pressure)** is used when the case material identifies that improper tire pressure was present on one or more tires of a bicycle, non-motor vehicle transport device, or personal conveyance in use by this non-motorist. It signifies that improper tire pressure is not a defect, but rather the irresponsibility of this person.

**100 (Using a Shared Micromobility Device)** is used when this non-motorist was riding a device (non-motorized bicycle, e-scooter, etc.) that was part of a micromobility ride-share, transportation network company (TNC), mobility service provider (MSP), or similar, which connects paying customers seeking transportation with personal conveyances or non-motorized bicycles via websites and mobile apps.

**NOTE:** Motorized bicycles and e-bikes are considered motor vehicles. See NCSA BODY TYPE [81 \(Moped or Motorized Bicycle\)](#). Likewise, a person riding an e-bike would be considered a Motor Vehicle Occupant.

**Vision Obscured By:**

The following set of attributes identifies visual obstructions noted in the case material applicable to this non-motorist.

**\*060 (Rain, Snow, Fog, Smoke, Sand, Dust)**

**\*061 (Reflected Glare, Bright Sunlight or Headlights)**

**\*062 (Curve, Hill, or Other Design Features [including traffic signs, embankment])**

**\*063 (Building, Billboard or Other Structures)**

**\*064 (Trees, Crops or Vegetation)**

**\*065 (Motor Vehicle [including load])**

**Examples include:**

- A car stopped on the roadway.
- A tractor-trailer in-transport on the road.
- A school bus stopped for the purpose of loading and/or unloading children.

**\*066 (Parked Vehicle)**

**\*067 (Splash or Spray of a Passing Vehicle)**

**\*068 (Inadequate Lighting System)**

**\*069 (Obstructing Angles on the Vehicle)** is used when the case material identifies obstructing angles on this person's vehicle. This attribute should not be confused with visual obstructions from other vehicles. (See **065 (Motor Vehicle [including load])** and **066 (Parked Vehicle)**).

**\*070 (Mirrors)** is used when the case material identifies that this non-motorist's vision was obscured by any type of mirror.

**\*072 (Other Visual Obstruction)** is used when the case material identifies that this non-motorist's vision was obscured by something other than previously listed. For example, a trailer that has been left parked on the side of the road by a truck or vehicle.

### ***Skidding, Swerving, Sliding Due To:***

***This set of attributes is applicable to a non-motorist that attempted to avoid and/or lost control due to one of the following—and resulted in that non-motorist's skidding, swerving, or sliding.***

**\*073 (Severe Crosswind)** is used when the case material identifies this non-motorist's control loss was related to severe crosswinds.

**\*074 (Wind from Passing Truck)** is used when the case material identifies this non-motorist's control loss was related to winds produced by a passing truck.

**\*075 (Slippery or Loose Surface)** is used when the case material identifies this non-motorist's control loss was related to the surface composition of the roadway and/or the condition of that composition. Not to be used when the surface is slippery due to environment conditions such as rain, ice or snow (see [083 \(Ice, Snow, Slush, Water, Sand, Dirt, Oil, Wet Leaves on Road\)](#)).

#### **Examples include:**

- A slippery surface that is old or worn resulting in loose gravel on the roadway.
- Blacktop that is slick as a newly paved surface.

**\*076 (Tire Blowout or Flat)** is used when the case material identifies this non-motorist's control loss was related to a tire blowout or flat.

**\*077 (Debris or Objects in Road)** is used when the case material identifies this non-motorist attempted to avoid or lost control as a result of debris in the road. Examples would include nails, glass, trash cans, tire retread, trash, dead animals, pile of sand, barricades, etc.

**\*078 (Ruts, Holes, Bumps in Road)** is used when the case material identifies this non-motorist attempted to avoid or lost control as a result of a road surface anomalies such as ruts, holes, dips, or bumps.

**\*080 (Vehicle in Road)** is used when the case material identifies this non-motorist attempted to avoid or lost control as a result of another vehicle in the road. This includes both contact and non-contact vehicles that remain at the scene.

**\*081 (Phantom Vehicle)** is used when the case material identifies this non-motorist attempted to avoid or lost control as a result of a non-contact vehicle that left the scene as described by the police officer.

**\*082 (Pedestrian, Pedal Cyclist, or Other Non-Motorist)** is used when the case material identifies this non-motorist attempted to avoid or lost control as a result of a pedestrian, a pedalcyclist, or other type of non-motorist.

**\*083 (Ice, Snow, Slush, Water, Sand, Dirt, Oil, Wet Leaves on Road)** is used when the case material identifies this non-motorist's control loss was related to a substance on the roadway that caused the roadway to be slick, which may interfere with the traction of the vehicle. This attribute does not include part of the roadway composition. For cases involving roadway composition issues, see [075 \(Slippery or Loose Surface\)](#).

***Other Non-Motorist Factors:***

**087 (Police or Law Enforcement Officer)** is used when the case material identifies that this non-motorist was a police or law enforcement officer **working** at the time of the crash. The officer may be affiliated at the Federal, State, or local law enforcement level. This would also include military and park police, border patrol officers, and all other sworn law enforcement officers.

**094 (Emergency Medical Services Personnel)** is used when the case material identifies that this person was described as emergency medical services (EMS) personnel.

**095 (Fire Personnel)** is used when the case material identifies that this person was fire personnel.

**096 (Tow Operator)** is used when the case material identifies that this person was an operator of a tow truck.

**097 (Transportation (i.e., maintenance workers, safety service patrol operators, etc.))** is used when the case material indicate this person was working to assist with detouring traffic, maintaining roadway damage, or a safety service patrol operator, etc.

**090 (Non-Motorist Pushing a Vehicle)** is used when the case material identifies the non-motorist was pushing a vehicle.

**091 (Portable Electronic Devices)** is used when the case material identifies that this non-motorist was using an electronic device (mobile phone, MP3 player, PDA, etc.) that was somehow related to the crash occurrence.

**093 (Non-Motorist Wearing Motorcycle Helmet)** is used when the materials identify that this non-motorist was wearing a motorcycle helmet. This can apply to a pedestrian, bicyclist, or other non-motorist. For example, a pedestrian that previously was riding a motorcycle gets struck while still wearing their helmet.

**031 (Default Code Used for Vehicle Numbering)** is used when it cannot be determined from the case material which vehicle hit the non-motorist. See guidance under [VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST](#).

**101 (Obstructed Sidewalk (for this Person))** is used when the case material indicate that a sidewalk was in the vicinity of the crash but was not available for use for this person because it was somehow obstructed. For example, the obstruction could be due to construction, snow or ice, people, or other objects preventing the use of the sidewalk.

**999 (Reported as Unknown)** is used when the circumstances surrounding the crash are unknown and reported as "unknown" by the investigating officer.

Consistency Checks [\(See Section 400\)](#):

| Error ID | IF                                                                                                        | THEN                                                                                                                                                                         |
|----------|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1M1F     | RELATED FACTORS-PERSON LEVEL (Not a MV Occupant) equals 013,                                              | PERSON TYPE should equal 11.                                                                                                                                                 |
| 1M2F     | <i>at least one RELATED FACTORS - PERSON (NOT A MOTOR VEHICLE OCCUPANT) LEVEL equals 101,</i>             | <i>PERSON TYPE must not equal 04 or 10.</i>                                                                                                                                  |
| 1M3F     | <i>at least one RELATED FACTORS - PERSON (NOT A MOTOR VEHICLE OCCUPANT) LEVEL equals 100,</i>             | <i>PERSON TYPE should equal 06, 11, 12, or 13.</i>                                                                                                                           |
| 1N0F     | PERSON TYPE equals 06,                                                                                    | RELATED FACTORS-PERSON (NOT A MV OCCUPANT) LEVEL must not equal 009, 013, 069, 070, 090, 094-097.                                                                            |
| 1N1F     | PERSON TYPE equals 10,                                                                                    | RELATED FACTORS-PERSON LEVEL (NOT A MV OCCUPANT) must not equal 009, 021, 037, 040-042, 051, 052, 053, 054, 055, 056, 057, 060-070, 072-078, 080-083, 090, 091, 100, or 101. |
| 1W0P     | any RELATED FACTORS-PERSON LEVEL equals 000 or 999,                                                       | <i>only that one code and no other must be coded.</i>                                                                                                                        |
| 4W1P     | Any RELATED FACTORS-PERSON (NOT A MV OCCUPANT) LEVEL can be used only once per person form.               | --                                                                                                                                                                           |
| 4W2P     | RELATED FACTORS - PERSON (NOT A MV OCCUPANT) LEVEL equals 093,                                            | NON-MOTORIST SAFETY EQUIPMENT Subfield 1 Non-Motorist Helmet Use must equal 2.                                                                                               |
| 4W3P     | RELATED FACTORS - PERSON (NOT A MOTOR VEHICLE OCCUPANT) LEVEL equals 091,                                 | NON-MOTORIST DISTRACTED BY should equal 05, 06, 07, 08, or 15.                                                                                                               |
| 4W4P     | RELATED FACTORS-PERSON LEVEL (Not a MV Occupant) equals 053, 054, 055, and PERSON TYPE does not equal 05, | at least one NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must equal 18.                                                                                                          |
| 4W5P     | RELATED FACTORS-PERSON LEVEL (Not a MV Occupant) equals 053, 054, 055, and PERSON TYPE equals 05,         | at least one NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must equal 21.                                                                                                          |
| 4X0A     | NON-MOTORIST DISTRACTED BY equals 05, 06, 07, 08, or 15,                                                  | at least one RELATED FACTORS - PERSON (NOT A MOTOR VEHICLE OCCUPANT) LEVEL must equal 091.                                                                                   |
| 5M2G     | <i>SPECIAL USE equals 06, and PERSON TYPE equals 02, and SEATING POSITION equals 51,</i>                  | <i>at least one RELATED FACTORS - PERSON LEVEL should equal 092 or 094.</i>                                                                                                  |



| <b>Error ID</b> | <b>IF</b>                                                                                                | <b>THEN</b>                                                                                                                                  |
|-----------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>5M3G</b>     | <b><i>SPECIAL USE equals 06, and PERSON TYPE equals 01 or 02, and SEATING POSITION equals 11-19,</i></b> | <b><i>at least one RELATED FACTORS - PERSON LEVEL should equal 094, or at least one RELATED FACTORS - DRIVER LEVEL should equal 094.</i></b> |
| 8M0F            | PERSON TYPE equals 04,                                                                                   | RELATED FACTORS-PERSON (NOT A MV OCCUPANT) LEVEL must not equal <b>013, 053, 054, 055, 090, 094-097, or 101.</b>                             |
| 8Q0F            | PERSON TYPE equals <b>11, 12, or 13</b>                                                                  | RELATED FACTORS-PERSON (NOT A MV OCCUPANT) LEVEL must not equal <b>009, 090, or 094-097.</b>                                                 |
| 9M0F            | PERSON TYPE equals 05,                                                                                   | RELATED FACTORS-PERSON (NOT A MV OCCUPANT) LEVEL must not equal <b>013, 021, 026, 040, 042, 051, 052, 057, 068-070, 073-083, or 100.</b>     |
| CK0P            | PERSON TYPE equals 07,                                                                                   | RELATED FACTORS-PERSON (NOT A MV OCCUPANT) LEVEL must not equal <b>009, 013, 069, 070, 087, 090, 094-097.</b>                                |
| CM0P            | PERSON TYPE equals 19,                                                                                   | RELATED FACTORS-PERSON LEVEL (NOT A MV OCCUPANT) LEVEL must not equal <b>013, 069, 070, 090.</b>                                             |

**Consistency Check (FARS Only) [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                                                           | <b>THEN</b>                                         |
|-----------------|---------------------------------------------------------------------|-----------------------------------------------------|
| 5W0P            | RELATED FACTORS-PERSON (NOT A MV OCCUPANT) LEVEL equals <b>018,</b> | SEX must equal 2, and AGE must be greater than 012. |



## **Supplemental Data Elements - FARS Only**

**Person Level Elements** - Including Coding Instructions.

- [SP1 - Death Certificate Number](#)
- [SP2 - Fatal Injury at Work](#)
- [SP3 - Race/Hispanic Origin](#)

## SP1 - Death Certificate Number - FARS Only

**FORMAT:** Element Completed in *RBIS*

**SAS NAME:** Person.CERT\_NO

### ELEMENT VALUES:

| Codes | Attributes                      |
|-------|---------------------------------|
| 0s    | Not Applicable (not a fatality) |
| --    | Any Numeric Characters          |
| 9s    | Unknown                         |

**Definition:** This element identifies the four-digit GSA code for the city where the death occurred, the two-digit State number, and the six-digit sequence number from the death certificate as assigned by the State Vital Statistics or Vital Records Department.

**Remarks:** Code the sequence number from the death certificate as assigned by your State Vital Statistics Department. The sequence number is six digits in length and is part of the State File Number.

The format for coding the numbers is as follows:

- First four digits \_\_\_\_ City (where death occurred)
- Next two digits \_\_ State (where death occurred)
- Last six digits \_\_\_\_\_ Sequence Number (as assigned by State Vital Statistics Department)

If this person is not a fatality, zero-fill this element.

Use GSA codes for the city and State where the death occurred according to the death certificate. These are the same GSA codes used for the [City variables in the Crash Level Form](#):

- 0000 - Not a fatality or death not within city limits and no location code is available.
- 0001-9996 - GSA Geographical Location Codes.
- 9997 - Other (Death within city limits, but no GSA code available for this city).
- 9999 - Unknown (City where death occurred cannot be found on death certificate).

The State codes are the same as those used for variables [C1, V1, D1, PC1, P1, and NM1 State Number](#).

If the fatal crash occurred in your State, but the death occurred in a hospital of another State, please attempt to obtain the death certificate from that State and code the city and State where the death occurred.

If a person dies at the crash scene, code the appropriate city code or location code for the crash location. Code "0000" if the location is not within a city, and no geographical location code is available.

If the location is not within a city, but a geographical location code is available, use the location code.

If a person is transported by EMS and dies en route or at the hospital, use the city code for the hospital's location.

Code the exact sequence number as indicated on the death certificate. If the sequence number is less than six-digits long (e.g., the sequence number is “12345” (five digits)) right-justify your coded number and zero-fill the first (and/or second digit) (e.g., 012345).

Note that if you receive a copy of the death certificate from the medical examiner or coroner, it may not contain the sequence number. The sequence number needed is the one assigned by your State Vital Statistics or Vital Records Department, which is subsequently sent to the National Center for Health Statistics. In those instances, leave the sequence number blank until you are able to obtain it in a follow-up effort with your Vital Statistics Department.

If the sequence number contains a letter in it (e.g., N12345), simply ignore the letter and code the numbers only (right justified), (e.g., 012345).

If the death certificate number cannot be obtained, 9-fill this element.

If the death certificate number can be obtained, but is not yet received, leave this element blank until the number is available.

**Consistency Checks [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                                                | <b>THEN</b>                                             |
|-----------------|----------------------------------------------------------|---------------------------------------------------------|
| 7E0P            | INJURY SEVERITY equals 4,                                | DEATH CERTIFICATE NUMBER must NOT equal 0000-00-000000. |
| 7F0P            | DEATH CERTIFICATE NUMBER is not blank or 0000-00-000000, | INJURY SEVERITY must equal 4.                           |

## SP2 - Fatal Injury At Work - FARS Only

**FORMAT:** 1 numeric

**SAS NAME:** Person.WORK\_INJ

**ELEMENT VALUES:**

| Codes | Attributes                                      |
|-------|-------------------------------------------------|
| 0     | <a href="#">No</a>                              |
| 1     | <a href="#">Yes</a>                             |
| 8     | <a href="#">Not Applicable (not a fatality)</a> |
| 9     | <a href="#">Unknown</a>                         |

**Definition:** This element indicates if the death certificate identified this person as being “at work” at the time of the crash.

**Remarks:** THE DEATH CERTIFICATE INDICATES WHETHER THE VICTIM WAS ON-THE-JOB AT THE TIME OF FATAL INJURY.

**0 (No)** is used if the injury **was not** at work.

**1 (Yes)** is used if the injury **was** on the job.

**8 (Not Applicable (not a fatality))** is used if the victim was not a fatality.

**9 (Unknown)** is used if the death certificate does not indicate whether the injury was at work or if you do not have access to death certificate information.

**FATAL INJURY AT WORK SHOULD ONLY BE DETERMINED FROM THE DEATH CERTIFICATE, NOT FROM ANY OTHER SOURCE. HOWEVER, IT IS NOT NECESSARY TO HAVE A COPY OF THE DEATH CERTIFICATE.**

**Consistency Checks** [\(See Section 400\)](#):

| Error ID | IF                                                  | THEN                                 |
|----------|-----------------------------------------------------|--------------------------------------|
| 7R0P     | FATAL INJURY AT WORK equals 0, 1, 9,                | INJURY SEVERITY must equal 4.        |
| 7W0P     | FATAL INJURY AT WORK equals 8,                      | INJURY SEVERITY must not equal 4.    |
| P1A0     | AGE is less than 012, and INJURY SEVERITY equals 4, | FATAL INJURY AT WORK should equal 0. |

| <b>Error ID</b> | <b>IF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>THEN</b>                          |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| P130            | <b><i>vPIC BODY CLASS equals 011 (Truck), 016 (Bus), 068 (Streetcar / Trolley), 73 (Bus-School Bus), 066 (Truck-Tractor), 095 (Cargo Van), 111 (Step Van / Walk-in Van), 117 (Limousine), 126 (Off-road Vehicle - Farm Equipment), 127 (Off-road Vehicle - Construction Equipment), or FINAL STAGE BODY CLASS equals 011 (Truck), 016 (Bus), 068 (Streetcar / Trolley), 73 (Bus-School Bus), 066 (Truck-Tractor), 095 (Cargo Van), 111 (Step Van / Walk-in Van), or 117 (Limousine), and POWER UNIT GVWR_from and GVWR_to equals 13, 14, 15, 16, 17, or 18, and PERSON TYPE equals 01 or 03, and INJURY SEVERITY equals 4,</i></b> | FATAL INJURY AT WORK should equal 1. |

### SP3 - Race/Hispanic Origin - FARS Only

**FORMAT:** 1 set, 3 numeric; 1 set, 2 numeric

**SAS NAME:** Race.ORDER, Race.MULTRACE, RACE.RACE

#### ELEMENT VALUES:

##### Single Race:

| Codes | Attributes                                                                                                            |
|-------|-----------------------------------------------------------------------------------------------------------------------|
| 000   | Not a Fatality (not applicable)                                                                                       |
| 001   | <a href="#">White</a>                                                                                                 |
| 002   | <a href="#">Black or African American</a>                                                                             |
| 003   | <a href="#">North American Indian or Alaska Native</a>                                                                |
| 004   | <a href="#">Chinese</a>                                                                                               |
| 005   | <a href="#">Japanese</a>                                                                                              |
| 006   | <a href="#">Native Hawaiian</a>                                                                                       |
| 007   | <a href="#">Filipino</a>                                                                                              |
| 018   | <a href="#">Asian Indian</a>                                                                                          |
| 019   | <a href="#">Other Indian</a> (includes South and Central America, any others, except North American or Asian Indians) |
| 028   | <a href="#">Korean</a>                                                                                                |
| 038   | <a href="#">Samoan</a>                                                                                                |
| 048   | <a href="#">Vietnamese</a>                                                                                            |
| 058   | <a href="#">Guamanian or Chamorro</a>                                                                                 |
| 068   | <a href="#">Other Asian or Pacific Islander</a>                                                                       |
| 078   | <a href="#">Asian or Pacific Islander, No Specific (individual) Race</a>                                              |
| 097   | <a href="#">Multiple Races Unspecified</a>                                                                            |
| 098   | <a href="#">Other Race</a>                                                                                            |
| 099   | Unknown                                                                                                               |

##### Multiple Races

| Codes | Attributes                                                             |
|-------|------------------------------------------------------------------------|
| 201   | <a href="#">Multiple Race - White</a>                                  |
| 202   | <a href="#">Multiple Race - Black or African American</a>              |
| 203   | <a href="#">Multiple Race - North American Indian or Alaska Native</a> |
| 204   | <a href="#">Multiple Race - Chinese</a>                                |

| Codes | Attributes                                                                                                                            |
|-------|---------------------------------------------------------------------------------------------------------------------------------------|
| 205   | <a href="#">Multiple Race - Japanese</a>                                                                                              |
| 206   | <a href="#">Multiple Race - Native Hawaiian</a>                                                                                       |
| 207   | <a href="#">Multiple Race - Filipino</a>                                                                                              |
| 218   | <a href="#">Multiple Race - Asian Indian</a>                                                                                          |
| 219   | <a href="#">Multiple Race - Other Indian</a> (includes South and Central America, any others, except North American or Asian Indians) |
| 228   | <a href="#">Multiple Race - Korean</a>                                                                                                |
| 238   | <a href="#">Multiple Race - Samoan</a>                                                                                                |
| 248   | <a href="#">Multiple Race - Vietnamese</a>                                                                                            |
| 258   | <a href="#">Multiple Race - Guamanian or Chamorro</a>                                                                                 |
| 268   | <a href="#">Multiple Race - Other Asian or Pacific Islander</a>                                                                       |
| 278   | <a href="#">Multiple Race - Asian or Pacific Islander, No Specific (individual) Race</a>                                              |
| 298   | <a href="#">Multiple Race - Other Races</a>                                                                                           |

#### Hispanic Origin:

| Codes | Attributes                                                     |
|-------|----------------------------------------------------------------|
| 00    | Not a Fatality (not applicable)                                |
| 01    | Mexican                                                        |
| 02    | Puerto Rican                                                   |
| 03    | Cuban                                                          |
| 04    | Central or South American                                      |
| 05    | European Spanish                                               |
| 06    | <a href="#">Hispanic, Origin not Specified or Other Origin</a> |
| 07    | Non-Hispanic                                                   |
| 99    | <a href="#">Unknown</a>                                        |

**Definition:** This element indicates the Race and Hispanic origin of this person from the death certificate.

**Remarks:** Race and Hispanic Origin should be obtained from **the death certificate only**.

Both RACE and HISPANIC ORIGIN are coded for fatal victims only ([INJURY SEVERITY](#) on this person must be [Fatal Injury](#)). If INJURY SEVERITY is coded other than **Fatal Injury** on the Person Level, the **RBIS** will automatically enter “0s” in both the RACE and HISPANIC ORIGIN fields.

## **Single Race**

If the death certificate lists only one race, select from the following list. If more than one race is listed on the death certificate for this person, see the guidance for [Multiple Races](#) below.

**001 (White)** should be coded for people listed as White, Mexican, Puerto Rican, Cuban, Caucasian, or similar for race.

**002 (Black or African American)** should be coded for people listed as Black, African American, or similar for race.

**003 (North American Indian or Alaska Native)** should be coded for people listed as Canadian Indian, Mexican Indian, American Indian, Native American, Alaska Native, or similar for race. See [18 \(Asian Indian\)](#) for people listed as Indian (from India) and Pakistani and [19 \(Other Indian\)](#) for South and Central American Indians and any other Indians.

**004 (Chinese)** should be coded for people listed as Chinese for race.

**005 (Japanese)** should be coded for people listed as Japanese for race.

**006 (Native Hawaiian)** should be coded for people listed as Hawaiian or Native Hawaiian for race.

**007 (Filipino)** should be coded for people listed as Filipino for race.

**018 (Asian Indian)** should be coded for people listed as Asian Indian, Indian (from India), Pakistani, or similar for race.

**019 (Other Indian)** includes South and Central America and any other Indians, except North American or Asian Indians. See [03 \(North American Indian or Alaska Native\)](#) and [18 \(Asian Indian\)](#).

**028 (Korean)** should be coded for people listed as Korean for race.

**038 (Samoan)** should be coded for people listed as Samoan for race.

**048 (Vietnamese)** should be coded for people listed as Vietnamese for race.

**058 (Guamanian or Chamorro)** should be coded for people listed as Guamanian or Chamorro for race.

**068 (Other Asian or Pacific Islander)** is used when a specific “Other Asian” or “Pacific Island” race is listed, and it is other than [04 \(Chinese\)](#), [05 \(Japanese\)](#), [06 \(Native Hawaiian\)](#), [07 \(Filipino\)](#), [18 \(Asian Indian\)](#), [28 \(Korean\)](#), [38 \(Samoan\)](#), [48 \(Vietnamese\)](#), or [58 \(Guamanian or Chamorro\)](#). This attribute should be coded for people listed as Bangladeshi, Burmese (also Myanmar), Cambodian, Fijian, Indonesian, Laotian, Malaysian, Micronesian, Mongolian, Polynesian, Thai, Tibetan, Tongan, or similar for race.

**078 (Asian or Pacific Islander, No Specific [individual] Race)** should be coded for people listed as Asian, Cantonese, Eurasian, Pacific Islander, or similar for race.

**097 (Multiple Races, Unspecified)** is used when the death certificate indicates more than one race without specifying the individual races (“mixed,” “multiple races,” “multiracial,” etc.).

**098 (Other Race)** is used if an individual race listed on the death certificate or report is not one of the other attributes.



## **Multiple Races**

If the death certificate lists more than one race, select from the following list. If only one race is listed on the death certificate for this person, see the guidance for [Single Race](#) above. Codes selected from the Multiple Race table in **RBIS** must be accompanied by at least one other code in the table. The exceptions are **219 (Multiple Race - Other Indian)**, **268 (Multiple Race - Other Asian or Pacific Islander)**, and **298 (Multiple Race - Other Races)** that can be used on their own or coded along with another code. Select all codes that apply to this person. Order your selections by the order they are presented on the death certificate.

**201 (Multiple Race - White)** should be coded for people listed as White, Mexican, Puerto Rican, Cuban, Caucasian, or similar for race.

**202 (Multiple Race - Black or African American)** should be coded for people listed as Black, African American, or similar for race.

**203 (Multiple Race - North American Indian or Alaska Native)** should be coded for people listed as Canadian Indian, Mexican Indian, American Indian, Native American, Alaska Native, or similar for race. See [218 \(Multiple Race - Asian Indian\)](#) for people listed as Indian (from India) and Pakistani and [219 \(Multiple Race - Other Indian\)](#) for South and Central American Indians and any other Indians.

**204 (Multiple Race - Chinese)** should be coded for people listed as Chinese for race.

**205 (Multiple Race - Japanese)** should be coded for people listed as Japanese for race.

**206 (Multiple Race - Native Hawaiian)** should be coded for people listed as Hawaiian or Native Hawaiian for race.

**207 (Multiple Race - Filipino)** should be coded for people listed as Filipino for race.

**218 (Multiple Race - Asian Indian)** should be coded for people listed as Asian Indian, Indian (from India), Pakistani, or similar for race.

**219 (Multiple Race - Other Indian)** includes South and Central America, any others, except North American or Asian Indians. See [203 \(Multiple Race - North American Indian or Alaska Native\)](#) and **218 (Multiple Race - Asian Indian)**.

**228 (Multiple Race - Korean)** should be coded for people listed as Korean for race.

**238 (Multiple Race - Samoan)** should be coded for people listed as Samoan for race.

**248 (Multiple Race - Vietnamese)** should be coded for people listed as Vietnamese for race.

**258 (Multiple Race - Guamanian or Chamorro)** should be coded for people listed as Guamanian or Chamorro for race.

**268 (Multiple Race - Other Asian or Pacific Islander)** is used when a specific “Other Asian” or “Pacific Island” race is listed, and it is other than [204 \(Multiple Race - Chinese\)](#), [205 \(Multiple Race - Japanese\)](#), [206 \(Multiple Race - Native Hawaiian\)](#), [207 \(Multiple Race - Filipino\)](#), [218 \(Multiple Race - Asian Indian\)](#), [228 \(Multiple Race - Korean\)](#), [238 \(Multiple Race - Samoan\)](#), [248 \(Multiple Race - Vietnamese\)](#), or [258 \(Multiple Race - Guamanian or Chamorro\)](#). This attribute should be coded for people listed as Bangladeshi, Burmese (also Myanmar), Cambodian, Fijian, Indonesian, Laotian, Malaysian, Micronesian, Mongolian, Polynesian, Thai, Tibetan, Tongan, or similar for race.

**278 (Multiple Race - Asian or Pacific Islander, No Specific [individual] Race)** should be coded for people listed as Asian, Cantonese, Eurasian, Pacific Islander, or similar for race.

**298 (Multiple Race - Other Races)** is used if an individual race listed on the death certificate or report is not one of the other attributes.

Below is guidance for mapping RACE using the Centers for Disease Control and Prevention (CDC) Standard Death Certificate Race selections to FARS attributes.

| FARS Single Race                                                                                                           | FARS Multiple Races                                                                                                                                        | CDC Death Certificate RACE       |
|----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| 01 White                                                                                                                   | 201 Multiple Race - White                                                                                                                                  | White                            |
| 02 Black or African American                                                                                               | 202 Multiple Race - Black or African American                                                                                                              | Black or African American        |
| <ul style="list-style-type: none"> <li>• 03 North American Indian or Alaska Native</li> <li>• 19 (Other Indian)</li> </ul> | <ul style="list-style-type: none"> <li>• 203 Multiple Race - North American Indian or Alaska Native</li> <li>• 219 Multiple Race - Other Indian</li> </ul> | American Indian or Alaska Native |
| 18 Asian Indian                                                                                                            | 218 Multiple Race - Asian Indian                                                                                                                           | Asian Indian                     |
| 04 Chinese                                                                                                                 | 204 Multiple Race - Chinese                                                                                                                                | Chinese                          |
| 07 Filipino                                                                                                                | 207 Multiple Race - Filipino                                                                                                                               | Filipino                         |
| 05 Japanese                                                                                                                | 205 Multiple Race - Japanese                                                                                                                               | Japanese                         |
| 28 Korean                                                                                                                  | 228 Multiple Race - Korean                                                                                                                                 | Korean                           |
| 48 Vietnamese                                                                                                              | 248 Multiple Race - Vietnamese                                                                                                                             | Vietnamese                       |
| 68 Other Asian or Pacific Islander                                                                                         | 268 Multiple Race - Other Asian or Pacific Islander                                                                                                        | Other Asian                      |
| 06 Native Hawaiian                                                                                                         | 206 Multiple Race - Native Hawaiian                                                                                                                        | Native Hawaiian                  |
| 58 Guamanian or Chamorro                                                                                                   | 258 Multiple Race - Guamanian or Chamorro                                                                                                                  | Guamanian or Chamorro            |
| 38 Samoan                                                                                                                  | 238 Multiple Race - Samoan                                                                                                                                 | Samoan                           |
| 68 Other Asian or Pacific Islander                                                                                         | 268 Multiple Race - Other Asian or Pacific Islander                                                                                                        | Other Pacific Islander           |
| 98 Other Race                                                                                                              | 298 Multiple Race - Other Races                                                                                                                            | Other                            |

### ***Hispanic Origin***

**06 (Hispanic Origin Not Specified, or Other Origin)** This includes when you know they are Hispanic, but the specific origin is not specified (e.g., Hispanic, Latino, Latin American, South American).

**99 (Unknown)** This person could be Hispanic, or not. You don't have enough information to determine whether they are Hispanic (e.g., all you know is that Race is "White," "Black," "European," or "Indian," and no other information is provided) or not.

If you receive a listing from the Vital Statistics Department, be sure you request a translation table for the code structure.

Below is guidance for mapping Hispanic Origin using the CDC's Standard Death Certificate Hispanic Origin selections to FARS attributes.

| <b>CDC Death Certificate HISPANIC ORIGIN</b> | <b>Map to FARS HISPANIC ORIGIN</b>                 |
|----------------------------------------------|----------------------------------------------------|
| No, not Spanish/Hispanic/Latino              | 07 Non-Hispanic                                    |
| Yes, Mexican, Mexican American, Chicano      | 01 Mexican                                         |
| Yes, Puerto Rican                            | 02 Puerto Rican                                    |
| Yes, Cuban                                   | 03 Cuban                                           |
| Yes, Other Spanish/Hispanic/Latino           | 06 Hispanic, Origin not Specified, or Other Origin |

**Consistency Checks [\(See Section 400\)](#):**

| <b>Error ID</b> | <b>IF</b>                                                        | <b>THEN</b>                                           |
|-----------------|------------------------------------------------------------------|-------------------------------------------------------|
| 7E1P            | INJURY SEVERITY equals 4,                                        | RACE must not equal 00.                               |
| 7E2P            | INJURY SEVERITY equals 4,                                        | HISPANIC ORIGIN must not equal 00.                    |
| 7E3P            | INJURY SEVERITY is not equal to 4,                               | RACE must equal 00 AND HISPANIC ORIGIN must equal 00. |
| 7F1P            | RACE equals 00,                                                  | INJURY SEVERITY must not equal 4.                     |
| 7F2P            | HISPANIC ORIGIN equals 00,                                       | INJURY SEVERITY must not equal 4.                     |
| 7F3P            | RACE is not equal to 00, and HISPANIC ORIGIN is not equal to 00, | INJURY SEVERITY must equal 4.                         |

## **Appendix A: 2020 Coding Guides**

[\*How to Create a Coding Question in the CDAN Helpdesk\*](#)

[\*How to Create a Coding Question Ticket in RBIS\*](#)

[\*TIME: Crash Times, EMS Times, Death Time\*](#)

[\*Crash Events Table, Vehicle Placement\*](#)

[\*Critical Crash Envelope Timeline\*](#)

[\*Preocrash Critical Event Category Flowchart\*](#)

[\*Interchanges\*](#)

[\*Intersections\*](#)

[\*Involved Vehicles and Contact Vehicles\*](#)

[\*Qualifying Vehicles for Elements V23-V25\*](#)

[\*Total Lanes in Roadway\*](#)

[\*Trafficway Components\*](#)

[\*Vehicle Components and Areas of Impact\*](#)

## How to Create a Coding Question Ticket in the CDAN Helpdesk

2020 FARS/CRSS Coding Guide – How to Create a Coding Question Ticket in the CDAN Helpdesk

STEP 1: Go to your Single Sign-on page. Click on the CDAN Helpdesk button in the right column.

STEP 2: Hover your mouse over the “Tickets” tab at the top left, then select “Create Ticket” from the dropdown menu.

STEP 3: Your “Study” is **CRSS** or **FARS**. The Category is **Case Coding**. The Requestor is **Your Name**. Select the priority of your question (Low → Critical). The Unit is your **CRSS Assignment** or **FARS state**. The Sub Category is **Coding Question**. Assign the question to **Caitlin Elicker**. Enter in any email addresses if you wish to have other people cc-ed.

Select the ticket type (Issue or Request).

If you have a due date for the question, select the date.

STEP 4: Upload files, enter your issue, click on Save Ticket. **DO NOT REPLY TO THE SYSTEM-GENERATED EMAIL.** System-generated emails are notifications ONLY.

Create: Ticket

Study

FARS

Unit

CRSS Assignment or FARS State

Ticket Date

01/24/2017 2:33 PM

Category

Case Coding

Sub Category

Coding Question

CC ( Separate Emails by comma )

Enter email

Requestor

Your name

Assigned To

Caitlin Elicker

Ticket Type

Issue

Priority

Medium

Status

Open

Ticket Due Date

Due Date:

Upload File(s) ( Hold shift and click on file to select multiple files. File name length should not be more than 250 characters. All attachments size should not exceed to 1.0B. )

Request / Issue Description

Enter your issue here. Be as specific as possible. For your own reference, note your case number in your description.

Resolution (Resolution will be sent to emails listed in "CC" box when "Close Ticket" button is clicked)

Back to List

Save Ticket

Close Ticket

2020

DO NOT REPLY TO THE SYSTEM-GENERATED EMAILS

FARS/CRSS

A-2

## 2020 FARS/CRSS Coding Guide – How to Create a Coding Question Ticket in the CDAN Helpdesk

**STEP 5:** Go to your Single Sign-on page. Click on the CDAN Helpdesk button in the right column. Check on your ticket by hovering your mouse over the “Tickets” tab then select “My Tickets” from the dropdown menu.

**STEP 6:** Open tickets will show under “Tickets Requested by Me.” Find the ticket you want and click on the blue Ticket #.

**STEP 7:** If you have received a response, it will show under the ticket’s details (e.g., Study, Ticket Created By, etc.). If the responder asks a question or for additional information, you will need to Update your ticket. Click on the “Update Ticket” button in the upper left to respond.

**STEP 8:** Upload files, type your response, check the “Email the comment” box, click on the “Save” button. **DO NOT REPLY TO THE SYSTEM-GENERATED EMAILS.** System-generated emails are notifications ONLY.

Hint

### Need to Reopen your ticket?

If your ticket is closed, you can reopen it if you need more guidance. Search for the ticket number in the search field at the top of the Helpdesk page. Change the Status to “Open,” type your comments in the “Comments” field, check the “Email the comment” box, then click “Save.”

### Reminders:

- Do not send emails for Coding Assistance
- Never send confidential information or documents through emails.
- Check on open tickets in the CDAN Helpdesk regularly, just in case you didn’t receive an email notification.
- **DO NOT REPLY** to the system-generated emails. System-generated emails are notifications ONLY.

Request: [dropdown] Session: [dropdown]

Ticket Due Date: [calendar icon] Duplicate Ticket? [checkbox]

Assigned To: Joanna Reed Status: Open

Upload File(s) ( Hold shift and click on file to select multiple files. File name length should not be more than 250 characters. All attachments size should not exceed to 1 GB. ) [Browse...]

Comments

Type your comments here. Be as specific as possible.

Resolution (Resolution will be sent to email listed in "CC" box when "Close Ticket" button is clicked)

(Email the comment (if this box is checked, comments will also be sent to email in "CC" box, if "Close Ticket" or "Save" button is clicked))

Back to Details [Save] [Close Ticket]

7/29/2016 1:22:31 PM by Joanna Reed - Assigned To Joanna Reed

Hi [redacted]  
Can you please upload the PAR to this ticket so I may have a look? Thank you!  
Joanna Reed

2020

**DO NOT REPLY TO THE SYSTEM-GENERATED EMAILS**

FARS/CRSS

## How to Create a Coding Question Ticket in RBIS

With the new release of the Records-Based Information Solution (RBIS), you can ask a coding question while coding a case. It is important that you continue to upload any pertinent case material to the question you are submitting using the “Case Documents” section. In addition, it is important to note that the person answering the question you submitted may not have access to see your coding of the case.

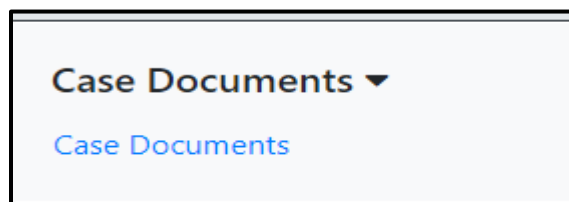
You can still create a coding question through the CDAN Helpdesk. This process has not changed but it is important to remember to continue uploading your case material to better assist.



**Step 1:** When you are in RBIS, select “Ask a Coding Question” from the task bar on the right side of the RBIS case data entry screen and enter your question. You can copy other people on your question in the “CC” field.

A screenshot of the 'Ask a Coding Question' form. At the top, it says 'Ask a Coding Question'. Below that is a field for 'CC (Please enter email addresses separated by comma)' with a text input box. To the right of this field are 'Submit' and 'Cancel' buttons. Below the CC field is a large text area for the 'Request / Issue Description'. A note below the text area says: 'Note: Please upload any supporting case materials associated with your request into the "Case Documents" section after submitting your question using the link on the left side of your case data entry screen. Any screenshots of RBIS etc., can be uploaded here.' At the bottom, there is a section for uploading files with instructions: 'Click on Browse Files and pick the file you would like to upload. When you have selected the file, click Open in the browser window. To drag and drop files from your computer, select files, drag them to into this location, and drop them. Only files with the following extensions are allowed: bmp, csv, doc, docx, gif, jpg, pdf, png, tiff, txt, xls, xlsx.' A 'Browse Files' button is located to the right of these instructions.

**Step 2:** After submitting your question, be sure to upload all case material that are relevant. You must upload case material via the “Case Documents” button on the left side of the RBIS case data entry screen.



In order for the ticket to be answered in a timely manner, make sure all the information needed to answer the question is uploaded. The ticket is automatically assigned to Caitlin Elicker who will then reassign the ticket to the appropriate person.

**Step 3:** Be sure to check your ticket's status in the CDAN Helpdesk frequently. The assignee may need additional information or have questions which may need a response from the ticket creator before the ticket can be resolved.

Remember not to reply to the automated emails that are generated when you create a ticket. Any updates to your question must be completed directly in the CDAN Helpdesk ticket.



## TIME: Crash Times, EMS Times, Death Times

### 2020 FARS/CRSS Coding Guide – TIME: Crash Time, EMS Times, Death Time

It is important to get the data elements that report Time from the correct source. Refer to the FARS/CRSS Coding and Validation Manual for detailed information. Below are general guidelines for all Time-related data elements.

**Format:** Code all official times in military times as received (00:00-23:59). All time formats are in hours and minutes. If you receive a time that includes the seconds' position, truncate to the reported minutes. Example: 10:51:35 would be 10:51.

#### **How to Code Midnight:**

In general, code midnight as 0000 in military time. Midnight is considered to be the beginning of a new day rather than the end of a day. One minute after midnight is 12:01 and is coded as 0001. However, there may be confusion over which day the source is referring to when "midnight" is cited or referred to without explanation. Our practice may not be the practice followed in your sources; therefore, you must determine which part of the day is being considered in your sources. The following are examples of midnight time references which do not easily translate to FARS and CRSS times.

- "midnight"
- 12:00-midnight
- 24:00

#### **End of Day:**

If your data sources give you a CRASH DATE and are consistent in talking about the end of that day, when they give a non-translatable "midnight" time reference of the crash, then you should code Crash Time as 2359.

#### **Beginning of Day:**

If your sources give a CRASH DATE and are consistent in referring to the beginning or early moments of that day when they give a non-translatable "midnight" crash time, code "midnight" as 0000.

**AM** - Starts at 00:00 Midnight

**PM** - Starts at 12:00 Noon

#### **Crash Time**



**Definition:** This element identifies the time at which the crash occurred.

Enter the time at which the crash occurred as shown on the Police Crash Report. This is the preferred time in all cases. If the crash time is not reported, unknown, or known to be in error, then all available information in the case materials should be used to determine Crash Time. If the hour cannot be determined, then enter **9999 (Unknown)**.

If the Police Crash Report indicates the crash occurred during some time interval of greater than one hour (e.g., 8:00 PM to 6:00 AM, or 8:00 AM to 5:00 PM), enter **9999 (Unknown)**. However, if the interval is one hour or less, code the midpoint of the interval.

#### **Examples:**

- 8:00 PM to 9:00 PM, enter **2030**
- 8:30 PM to 9:30 PM, enter **2100**
- 8:50 PM to 9:30 PM, enter **2110**

When the time is available, but AM versus PM is not shown on the Police Crash Report, base the time on the element LIGHT CONDITION (e.g., time is 10:00, LIGHT CONDITION is **2 (Dark - Not Lighted)**; code as **2200**).

## 2020 FARS/CRSS Coding Guide – TIME: Crash Time, EMS Times, Death Time

### Notification Time EMS – FARS Only



**Definition:** NOTIFICATION TIME EMS is the time Emergency Medical Service was notified.

Code NOTIFICATION TIME EMS and ARRIVAL TIME EMS no matter how much time has elapsed since the CRASH TIME. **Do not alter the times because of discrepancies with the CRASH TIME.** Code Notification Time of the **FIRST EMS** unit to arrive on the scene. If unknown minutes, code the actual hour and “99” for the minutes.

If the day of the crash and the day of EMS Notification have different dates, then be sure to see code **18 (Date of Crash and Date of EMS Notification Were Not the Same Day)** in RELATED FACTORS-CRASH LEVEL in the Coding Manual to see if it applies.

### Arrival Time EMS – FARS Only



**Definition:** ARRIVAL TIME EMS is the time Emergency Medical Service arrived on the crash scene.

Code NOTIFICATION TIME EMS and ARRIVAL TIME EMS no matter how much time has elapsed since the CRASH TIME. **Do not alter the times because of discrepancies with the CRASH TIME.** Code the arrival time of the **FIRST EMS** unit to arrive on the scene. If unknown minutes, code the actual hour and “99” for the minutes.

### EMS Time at Hospital – FARS Only



**Definition:** EMS TIME AT HOSPITAL is the time Emergency Medical Service arrived at the treatment facility (hospital, clinic, trauma center, etc.) to which it was transporting victims of the crash.

Code the EMS time at hospital of the unit **transporting the most severely injured victim.** The most severely injured victim includes (and usually is) the victim who dies en route to the treatment facility or later, but not the one who dies on-scene. **Do not alter the times because of discrepancies with the CRASH TIME.** If unknown minutes, code the actual hour and “99” for the minutes.

### Death Time – FARS Only



**Definition:** This element identifies the hour and minute of this person’s death utilizing the 24-hour clock format.

If minutes are unknown, code the actual hour and “99” for the minutes.

Normally, the medical examiner or coroner is the source of data for death time. If there are no data inconsistencies or errors, use the official death time as recorded on the Death Certificate. **Do not change the official death time without good cause.**

If it is known that the person died at the scene and the official death time or “pronounced death time” (on the Death Certificate) is known to be in error or is greater than 30 minutes after the crash time, then CRASH TIME is the appropriate DEATH TIME to be used. If it is known the person died at the scene, and the Time of Death is pronounced at the scene by a paramedic or firefighter, and this pronounced time does not contradict other case information, use this time.

**9999 (Unknown)** If the Death Certificate indicates the hour of death is unknown or provides a range greater than an hour, enter 9999 (Unknown).

## Crash Events Table, Vehicle Placement

### 2020 FARS/CRSS Coding Guide – Crash Events Table, Vehicle Placement

The **Crash Events Table** is filled out from the point of view of the **In-Transport Motor Vehicles** (Unit Type 1). Not In-Transport Motor Vehicles (Unit Types 2,3,4) are included in the table when they are contacted by an In-Transport Motor Vehicle or by something set-in-motion by an In-Transport Motor Vehicle.

MVITs can go in both sides of the table.

Each row must start with a MVIT.

| Event # | V# (This) | AOI (This) | SOE                                         | V# (Other) | AOI (Other) |
|---------|-----------|------------|---------------------------------------------|------------|-------------|
| 1       | MVIT      |            | 12 (MVIT)                                   | MVIT       |             |
| 2       | MVIT      |            | 14 (Parked MV)                              | Parked MV  |             |
| 3       | MVIT      |            | 45 (Working MV)                             | Working MV |             |
| 4       | MVIT      |            | 54 (Something Set-in-Motion by/from a MVIT) | MVIT       |             |
| 5       | MVIT      |            | 55 (MV in motion Outside the Trafficway)    | MVIT       |             |

Not In-Transport MVs can **ONLY** go in the Right side of the table.

#### Reminders:

- Coding of the Crash Events Table ends at the last Harmful Event in the crash.
- Not In-Transport Motor Vehicles cannot have Non-Harmful Events (e.g., Run off Roadway, Cross Centerline, etc.) in the Crash Events Table.
- SOE code **54** is **ONLY** for **two** Motor Vehicles In-Transport when one sets something into motion that strikes or is struck by the other.
- AOI code **18** is for cargo or vehicle parts set in motion, AOI code **19** is for something other than Cargo or vehicle parts (including people), and AOI code **20** is if you don't have enough information to tell if the thing(s) set-in-motion is/are 18 or 19.
- SOE is coded for vehicles, not their loads. For example, if the load of a vehicle (e.g., cargo, trailer, person, garbage can) crosses the centerline or goes off the roadway, it does not get coded in the Crash Events Table.
- Code 65 (Cross Median) is only used if the vehicle completely crosses the median and enters the opposing road.
- Code 69 (Re-entering Roadway) is only used if the vehicle departs its original roadway and then returns to that **same** roadway.

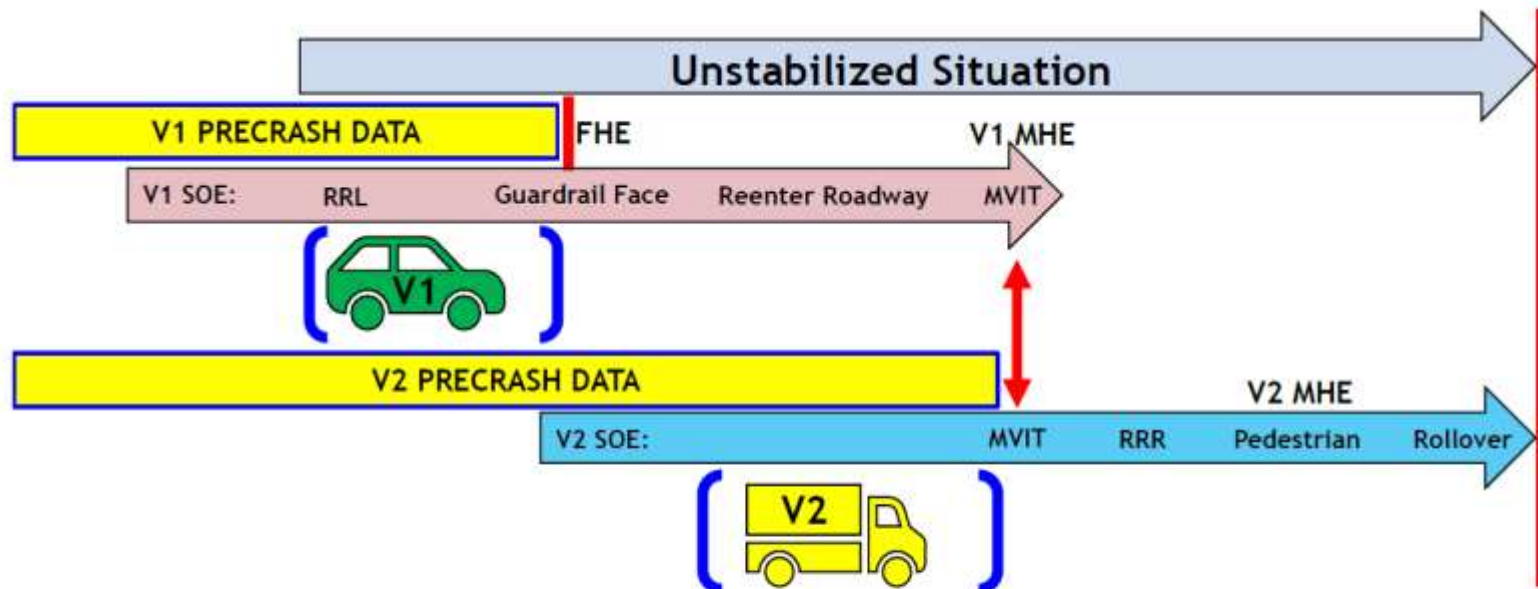
## Critical Crash Envelope Timeline

### 2020 FARS/CRSS Coding Guide - Critical Crash Envelope Timeline

**Narrative:** V1 went out of control on a wet roadway and struck the median guardrail with the front left side. The vehicle was redirected by the guardrail and re-entered the roadway, where it struck V2 on the driver side door with its front. V1 spun to a stop in the roadway. V2, out-of-control, ran off the right side of the roadway, struck and killed a pedestrian with its front, and then rolled over.

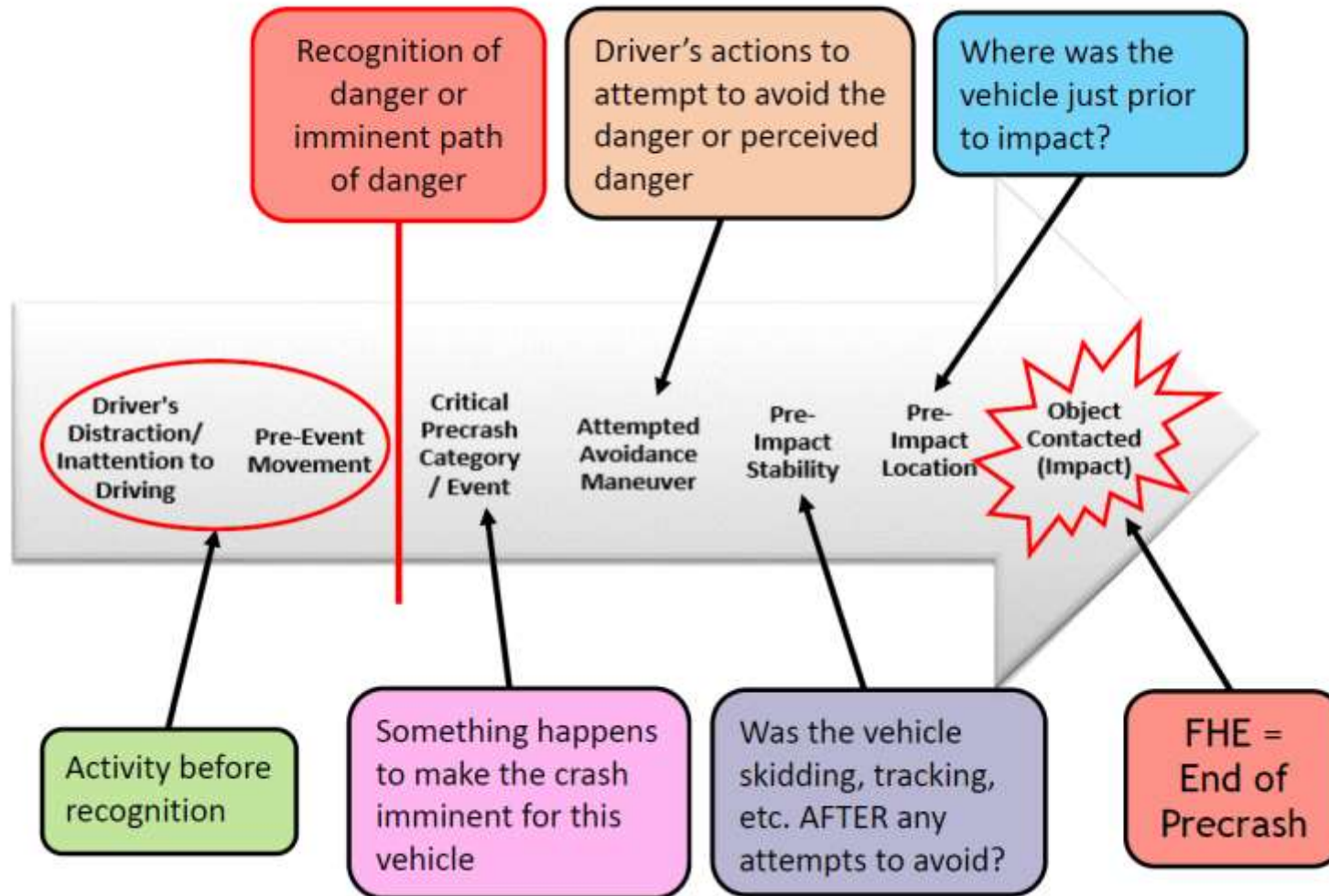
The Blue Brackets represent the beginning and ending of each vehicle's Critical Crash Envelope.

The coding for FARS/CRSS events ends at the LAST Harmful Event in the Crash.





## 2020 FARS/CRSS Coding Guide - Critical Crash Envelope Timeline

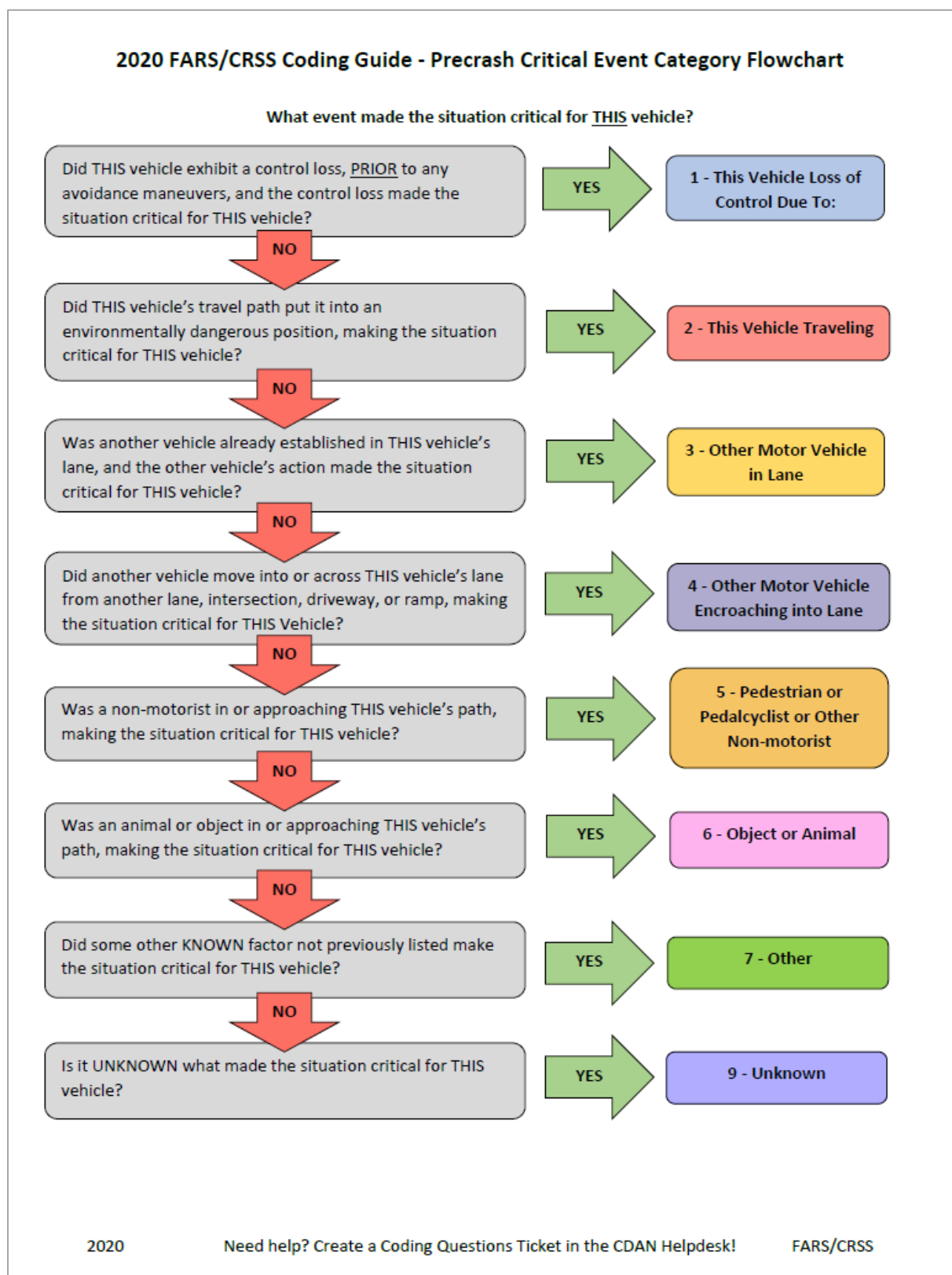


2020

Need help? Create a Coding Questions Ticket in the CDAN Helpdesk!

FARS/CRSS

## Precrash Critical Event Category Flowchart

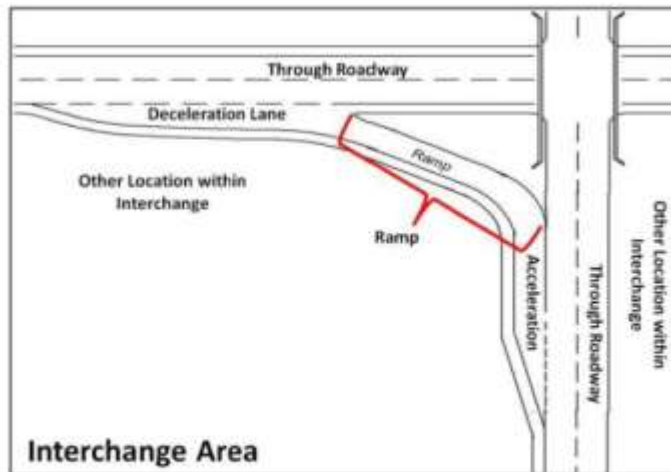


## Interchanges

2020 FARS/CRSS Coding Guide - Interchanges



Photo by Joanna S. Reed



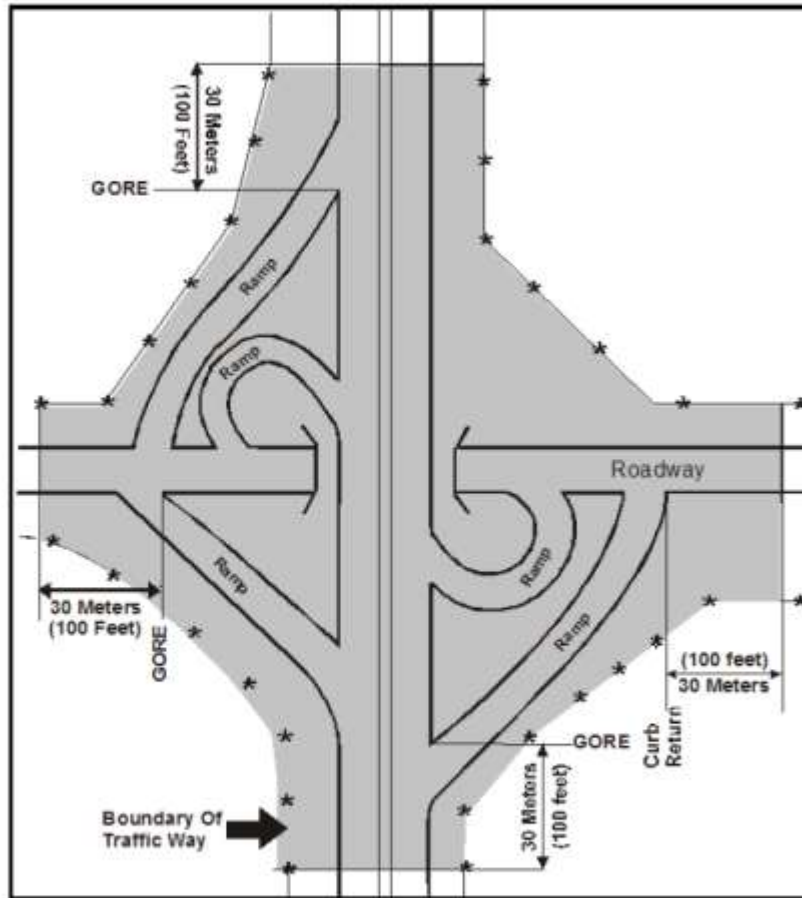
Interchange Area: ANSI D16.1 - 2007, 7<sup>th</sup> ed.

**2.5.14 grade separation:** A grade separation is a crossing at **different levels** of two trafficways, or a trafficway and a railway.

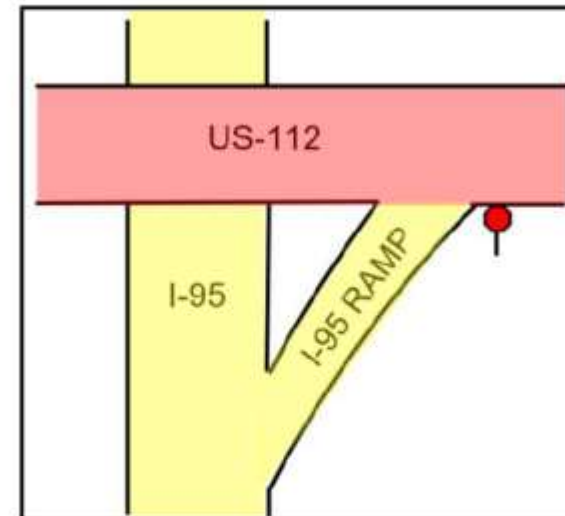
**2.5.16 interchange:** An interchange is a system of interconnecting roadways in conjunction with one or more **grade separations**, providing for the movement of traffic between two or more roadways on **different levels**.

**2.5.17 ramp, exit/entrance:** An exit/entrance ramp is an auxiliary roadway used for entering or leaving through-traffic lanes.

ANSI D16.1 - 2017, 8<sup>th</sup> ed.



Interchange: ANSI D16.1 2017, 8th ed.



A ramp or connecting road at an intersection or interchange is presumed to be **part of the highest class** of trafficway with which it connects.



## Intersections

### 2020 FARS/CRSS Coding Guide - Intersections

#### C21b RELATION TO JUNCTION

##### 02 (Intersection)



02 (Intersection) is used when the **FIRST HARMFUL EVENT** occurs in an area which:

- (1) contains a crossing or connection of two or more roadways not classified as a driveway access, and
- (2) is embraced within the prolongation of the lateral curb lines or, if none, the lateral boundary lines of the roadways.

##### 03 (Intersection-Related)



03 (Intersection-Related) means that the **FIRST HARMFUL EVENT**:

- (1) occurs on an approach to or exit from an intersection and
- (2) results from an activity, behavior, or control related to the movement of traffic units through the intersection.

#### NM10 NON-MOTORIST LOCATION AT TIME OF CRASH

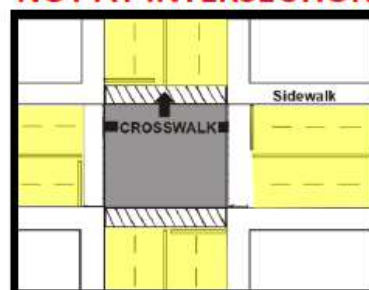
##### AT INTERSECTION



“At intersection” means: The **person** is on a roadway (travel lanes) either:

- (1) in the intersection,
- (2) in an area between a crosswalk and the perimeter of the intersection, or
- (3) in a crosswalk (whether marked or unmarked) adjacent to an intersection. If there are no crosswalks, “at intersection” means only the intersection, which is the area embraced within the prolongation of the lateral curb lines or, if none, the lateral boundary lines of the roadways.

##### NOT AT INTERSECTION



The **person** is on a roadway (travel lanes), but not “At Intersection.”

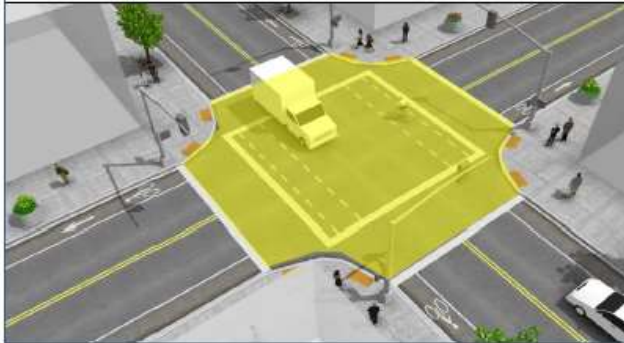
## 2020 FARS/CRSS Coding Guide - Intersections



### PB31/PB31b Pedestrian/Bicycle Crash Location



#### AT INTERSECTION



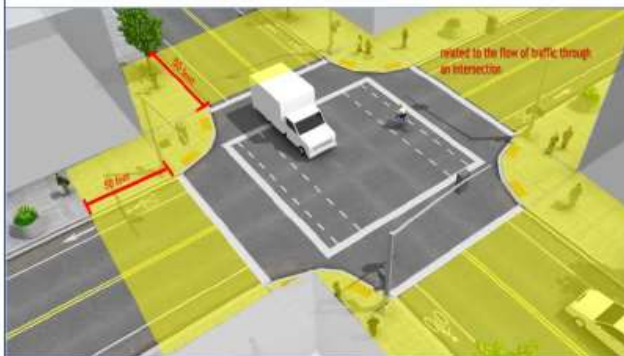
1 (At Intersection) is used when a **person** is on a roadway (travel lanes):

- (1) in the intersection,
- (2) in an area between a crosswalk and the perimeter of the intersection,

OR

- (3) in a crosswalk (whether marked or unmarked) adjacent to an intersection.

#### INTERSECTION RELATED



2 (Intersection-Related) is used when a **person** is:

- within the trafficway 50 feet out from the perimeter of an "At intersection" area including the entire cross section of the trafficway (e.g., medians, turn lanes, bike lanes, parking lanes, shoulders, sidewalks, etc.)

OR

- the crash is related to the flow of traffic through an intersection (e.g., the result of queuing traffic).

#### NOT AT INTERSECTION



3 (Not At Intersection) is used when a **person** is:

- within the trafficway more than 50 feet out from the perimeter of an "At Intersection" area
- AND
- the crash is not identified as related to the movement of the traffic units through an intersection.

This includes the entire cross section of the trafficway (e.g., medians, turn lanes, bike lanes, parking lanes, shoulders, sidewalks, etc.).

This attribute is the default when the case materials give no indication that the crash is within 50 feet of an intersection.

## Involved Vehicles and Contact Vehicles

### 2020 FARS/CRSS Coding Guide - Involved Vehicles and Contact Vehicles

Throughout the Coding and Validation manual, training, and other materials, the phrases “involved vehicle,” “involved motor vehicle in-transport,” “contact vehicle,” etc. are frequently used. These do not mean the same as “contributed to the crash,” but relate to whether this vehicle had a noncollision event or contact with something else during the crash producing or incurring harm. These contact vehicles will therefore have information collected for them in FARS, CRSS, and NTS. Note that this contact may be through:

2.4.7: “A **contact vehicle** is any road vehicle which comes in contact with one or more road vehicles, non-motorists or property in a collision crash, or has a noncollision crash. A contact vehicle is directly involved in a crash.”

ANSI D16 8<sup>th</sup> Edition

-  • directly touching another vehicle, non-motorist, or property (collision event);
-  • striking or being struck by cargo, persons, or objects set in-motion by another motor vehicle;
-  • setting cargo, persons, or objects into motion which strikes or is struck by another motor vehicle (collision event/set-in-motion); or
-  • by having a noncollision harmful event (e.g., fire, immersion, person falling out of vehicle, etc.).

**Note on identifying contact vehicles:** When the vehicle information section is not completed on the Police Crash Report for a vehicle noted to be involved in a minor harmful event in the diagram or narrative, the vehicle may still be a contact vehicle in the crash. This contact vehicle should be included, even if the amount of damage sustained is below the state threshold and there are no injuries in the vehicle.

Consider the following examples:

- **Example 1:** V1 crosses over the centerline and collides with V2. This crash involves **two** contact vehicles.
- **Example 2:** V1 strikes a Pedestrian crossing the road. This crash involves **one** contact vehicle.
- **Example 3:** V1 swerves across the centerline to avoid a vehicle stopped in its lane, and collides with V2. This crash involves **two** contact vehicles. The vehicle stopped in V1’s lane was indirectly involved but was *not a contact vehicle* because it did not:
  - sustain any injury or damage,
  - strike any vehicle, cargo, or persons, or set objects in-motion striking another motor vehicle,
  - get struck by a vehicle, cargo, or persons, or objects set in-motion by another motor vehicle.
- **Example 4:** Crash report sections are completed for a vehicle which rear-ends a school bus stopped at a light; however, the narrative reports that crash debris scratched an additional vehicle stopped in the adjacent lane. This crash involves **three** contact vehicles.
- **Example 5:** V1, a tractor-trailer, drifts into lane 2. V2, a passenger car traveling in lane 2, swerves left to avoid V1, but in doing so crashes into the center guardrail. V1 continues traveling on down the road. This crash involves **one** contact vehicle. The tractor-trailer was indirectly involved but was *not a contact vehicle* because it did not:
  - sustain any injury or damage,
  - strike any vehicle, cargo, or persons, or set objects in-motion striking another motor vehicle,
  - get struck by a vehicle, cargo, or persons, or objects set in-motion by another motor vehicle.



### 2020 FARS/CRSS Coding Guide - Involved Vehicles and Contact Vehicles

- **Example 6:** V1, a truck with a flatbed trailer hauling cargo, is traveling in lane 2. V2, a passenger car, is traveling in lane 1. A large piece of cargo falls off the flatbed of V1 and into the path of V2. V2 immediately strikes the piece of cargo which fell into its lane. V1 continues traveling on down the road. This crash involves **two** contact vehicles.
  - V1 is a contact vehicle because it set something into motion which struck or was struck by another motor vehicle in-transport.
  - V2 is a contact vehicle because it struck or was struck by something set in motion by another motor vehicle in-transport.
- **Example 7:** V1 is driving down the road when it bursts into flames. Even though the vehicle does not touch another motor vehicle, object, or persons, or anything set in motion by another vehicle, it did have a harmful event (fire). This crash involves **one** contact vehicle.
- **Example 8:** V1 runs off the road, into a river, immediately sinking and drowning the occupants. Even though the vehicle does not touch another motor vehicle, object, or persons, or anything set in motion by another vehicle, it did have a harmful event (immersion). This crash involves **one** contact vehicle.
- **Example 9:** V1, a pickup, is driving down the road when a person standing in the back bed of the truck loses his balance, falls out, and strikes his head on the pavement. The person receives serious injuries. Even though the vehicle does not touch another motor vehicle, object, or persons, or anything set in motion by another vehicle, it did have a harmful event (the occupant falling out of the vehicle). This crash involves **one** contact vehicle.
- **Example 10:** V1 drifts onto the right shoulder and strikes a parked vehicle. This crash involves **two** contact vehicles.
- **Example 11:** V1 drifts onto the right shoulder and strikes a parked vehicle. The parked vehicle is pushed forward into another parked vehicle. V1 and both parked vehicles sustain damage. This crash involves **three** contact vehicles.
- **Example 12:** V1 drifts off the right side of the roadway and strikes the guardrail face. The impact was strong enough to send debris flying over the guardrail and into an adjacent car dealership parking lot. The debris struck five vehicles parked in the lot, causing damage to all five. This crash involves **six** contact vehicles.
- **Example 13:** V2 is approaching an intersection, traveling east. V3 is following V1 approaching the intersection, traveling north. As V2 collides with V1 in the intersection, V3 immediately swerves to avoid the crash. V3, departs the road and into a traffic signal pole. Even though V3 did not make physical contact with V1 or V2, its harmful event occurred as part of the same unstabilized situation. This crash involves **three** contact vehicles.
- **Example 14:** V1 and V2, both motorcycles, are traveling north at high speeds. V1 loses control on uneven pavement and begins to slide sideways launching the driver off the motorcycle and across the pavement. The driver of V2 immediately swerves to the right to avoid striking V1, loses control, runs off the road, and into a ditch where the driver flies off and impacts an embankment. Even though the two motorcycles did not make physical contact with each other, both vehicles had harmful events as part of the same unstabilized situation. The crash involves **two** contact vehicles.
- **Example 15:** V1 traveling on the roadway, slams on the brakes to avoid rear-ending another vehicle. The unbelted passenger in the back seat is thrown forward, striking their head on the front seat back and receives an "A" injury. There was no contact between the two vehicles, but there is an unstabilized situation where an injury occurred involving a motor vehicle in-transport on a trafficway. This crash involves **one** contact vehicle.

## Qualifying Vehicles for Elements V23-V25

### 2020 FARS/CRSS Coding Guide – Qualifying Vehicles for Elements V23-V25

#### Qualifying Vehicles for Data Elements V23-V25 are:

1. A vehicle pulling a trailer with Gross Combination Weight Rating (GCWR) greater than 10,000 lbs.
2. A single vehicle with a GVWR greater than 10,000 lbs.
3. A vehicle with 9 or more seats (including the driver).
4. A vehicle displaying a hazardous materials placard.

#### Notes about GVWR/GCWR:

Gross Vehicle Weight Rating (GVWR) is for a SINGLE vehicle or trailer.  
Gross Combination Weight Rating (GCWR) is for a COMBINATION vehicle.  
GCWR is the sum of the Gross Vehicle Weight Ratings of all units.



GVWR is available by decoding the VIN.



Single

Combination

#### V23 MOTOR CARRIER ID# - 0s, 8s, 7s, 9s

| Is the vehicle one of the above Qualifying Vehicles? | Applicability                                                                                                                                                                                                                                                                                                                                                                                | V23 Code/Attribute     |
|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| NO                                                   | The vehicle is <b>NOT</b> a Qualifying Vehicle                                                                                                                                                                                                                                                                                                                                               | 00/0s (Not Applicable) |
| YES                                                  | The vehicle <b>IS</b> a Qualifying Vehicle, <b>BUT</b> it is identifiable as: <ul style="list-style-type: none"> <li>• Not properly marked, or</li> <li>• Exempt because of the activity and/or state statute (e.g., personal use vehicles, construction equipment, farm equipment, non-regulated intrastate-only, government owned/operated)</li> </ul>                                     | 88/8s (None)           |
| YES                                                  | The vehicle <b>IS</b> a Qualifying Vehicle, <b>BUT</b> the carrier info is blank and no further info is given (i.e., absence of info)                                                                                                                                                                                                                                                        | 77/7s (Not Reported)   |
| YES or UNKNOWN                                       | <ul style="list-style-type: none"> <li>• The vehicle <b>IS</b> a Qualifying Vehicle, <b>BUT</b> the officer reports the MC ID# is "Unknown"</li> <li>• The NCSA BODY TYPE of the vehicle is unknown or not reported</li> <li>• It cannot be determined if the vehicle qualifies for this data element (e.g., a light pickup truck pulling a trailer where the GCWR is not known).</li> </ul> | 99/9s (Unknown)        |

#### V24 VEHICLE CONFIGURATION

##### 01 (Single-Unit Truck [2-axle and GVWR more than 10,000 lbs.])

This code includes personally owned **Qualifying Vehicles** (not towing anything).



##### 05 (Truck Tractor [Bobtail])



##### 02 (Single-Unit Truck [3 or more axles])



##### 04 (Truck Pulling Trailer[s])

This code includes personally owned vehicles towing a trailer that are **Qualifying Vehicles**.



##### 06 (Truck Tractor with a Semi-Trailer)



2020

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# 2020 FARS/CRSS Coding Guide – Qualifying Vehicles for Elements V23-V25

## V25 CARGO BODY TYPE

### 01 (Van/Enclosed Box)\*



**11 (Intermodal Container Chassis)** The chassis is specifically designed to have a rail or shipping container mounted directly on it. Intermodal means the container can be used across different forms (or modes) of transport (i.e., rail, ship, truck). If the container is being carried on a flatbed trailer instead of this specially designed chassis, use the code **03 Flatbed**. Don't confuse with a Truck Tractor hauling a semi-trailer which would be coded **01 Van/Enclosed Box**.



### 96 (No Cargo Body Type)\*



### 97 (Other)\*\*



**\*NOTE:** For truck/trailer vehicle configurations where the power unit and trailer have different cargo body types, code the cargo body type of the power unit. For example, a dump truck pulling a flatbed trailer should be coded as **04 (Dump)**.

**EXCEPTION:** truck/trailer vehicle configurations where the power unit's Cargo Body Type would be coded **96 (No Cargo Body Type)** or **97 (Other)**, code the cargo body of the trailer. For example: a dual-rear-wheel pickup truck pulling a flatbed trailer should be coded as **03 (Flatbed)**.

**\*\*97 (Other)** is used when the CARGO BODY TYPE is other than the types listed in the other attributes. This includes pickups greater than 10,000 lbs. without a trailer. If a pickup is pulling a trailer, code the CARGO BODY TYPE of the attached trailer instead of the CARGO BODY TYPE of the pickup. This attribute would also include motor homes.

## CODING EXAMPLES

### Example 1:

Chevrolet Silverado, GVWR: 8,900 lbs.  
Personally owned, not commercial  
Pulling a boat trailer, Trailer GVWR: 3,943 lbs.  
 $G_{CWR} = 8,900 + 3,943 = 12,843$  lbs. which IS Qualifying  
V16 NCSA Body Type: 34 (Light Pickup)  
V23 Motor Carrier ID #: 88/8s (None)  
V24 Vehicle Configuration: 04 (Truck Pulling Trailer[s])  
V25 Cargo Body Type: 97 (Other)  
If you get Edit Checks V507, V640, and V660, recheck to be sure your coding is correct before overriding.

### Example 2:

Ford Super Duty, Full-size Pickup, GVWR: 14,000 lbs.  
Identifiable as commercial, but no carrier information.  
Not pulling a trailer or anything else  
V16 NCSA Body Type: 67 (M/H Pickup [greater than 10,000 lbs. GVWR])  
V23 Motor Carrier ID #: 77/7s (Not Reported)  
V24 Vehicle Configuration: 01 (Single-Unit Truck [2-axle and GVWR more than 10,000 lbs.])  
V25 Cargo Body Type: 97 (Other)

### Example 3:

Toyota Tacoma, GVWR: 5,500 lbs.  
Personally owned, not commercial  
Pulling a trailer, Trailer GVWR not reported  
 $G_{CWR} = 5,500 + ? = \text{Unknown}$  if a Qualifying Vehicle  
V16 NCSA Body Type: 34 (Light Pickup)  
V23 Motor Carrier ID #: 99/9s (Unknown)  
V24 Vehicle Configuration: 99 (Unknown)  
V25 Cargo Body Type: 99 (Unknown)

### Example 4:

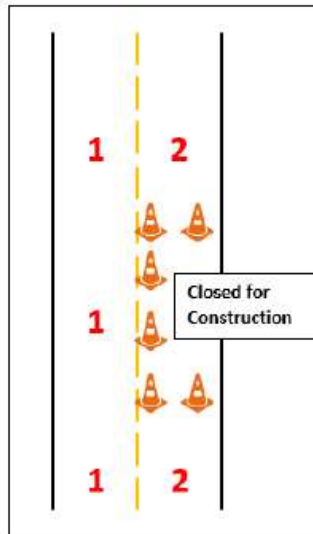
Peterbilt Truck Tractor, GVWR 26,001 lbs. or more  
Commercial operation, hauling unknown type of trailer  
Trailer GVWR not reported  
V16 NCSA Body Type: 66 (Truck-Tractor)  
V23 Motor Carrier ID #: enter the number provided or if missing use 77/7s (Not Reported)  
V24 Vehicle Configuration: 06 (Truck Tractor/Semi-Trailer)  
V25 Cargo Body Type: 98 (Unknown Cargo Body Type)

## Total Lanes in Roadway

### 2020 FARS/CRSS Coding Guide - Total Lanes in Roadway

#### REMINDERS:

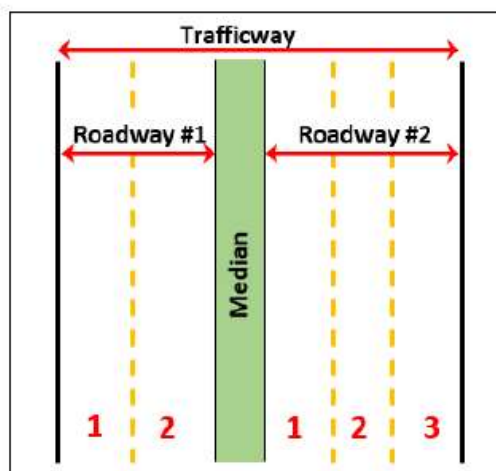
- The number of lanes counted does not include any of which are rendered unusable by restriction of the right-of-way (e.g., closed due to construction).
- Trafficways are not physically divided unless the divider is a median, barrier, or other constructed device.
- Painted markings on the roadway less than 4 feet wide are not medians.



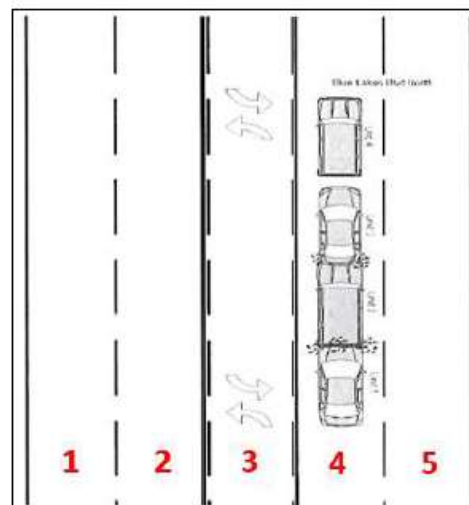
If Trafficway Description is **1 (Two Way- Not Divided)**, all open lanes are counted.

In this diagram, before the closed portion, count both lanes. Next to the closed portion, count only the one lane that is open. After the closed portion, count both lanes.

If Trafficway Description is **2 (Two Way, Divided, Unprotected Median)** or **3 (Two-way, Divided, Positive Median Barrier)**, only the open lanes on the Roadway that THIS vehicle was originally traveling on are counted.

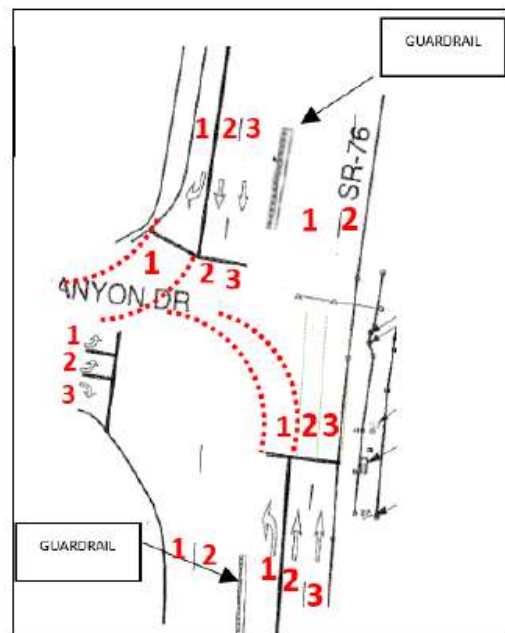
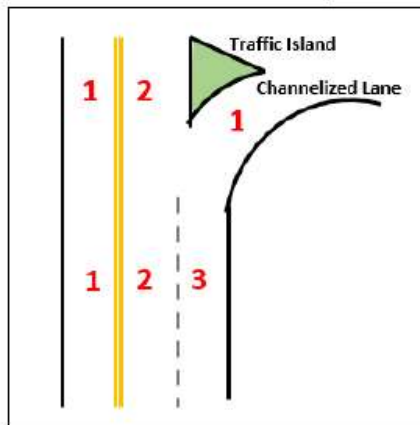
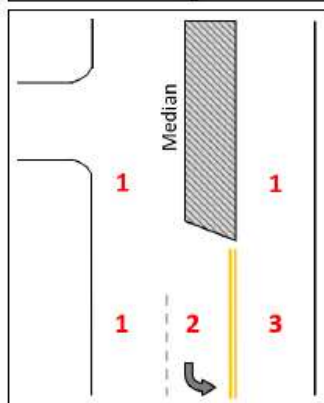
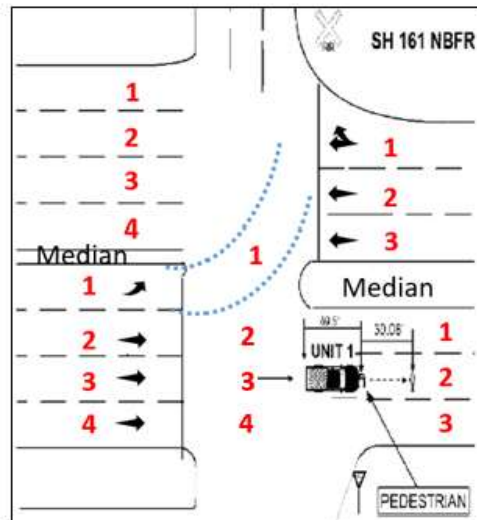
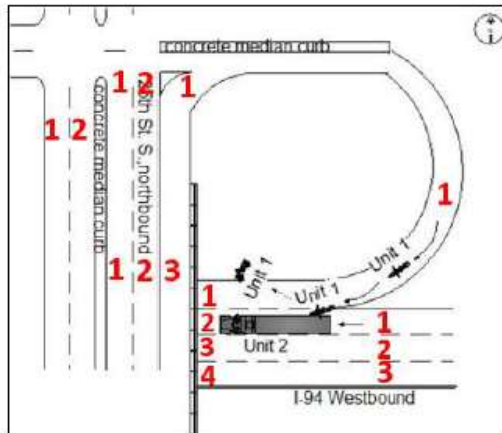


If Trafficway Description is **5 (Two-Way, Not Divided with a Continuous Left-Turn Lane)**: All open lanes are counted. Continuous Left Turn Lanes are NOT medians.



## 2020 FARS/CRSS Coding Guide - Total Lanes in Roadway

- Be mindful of turn lanes before the intersection and in the intersection.
- Watch out for channelized lanes and turn bays.
- Take care when coding ramps.



2020

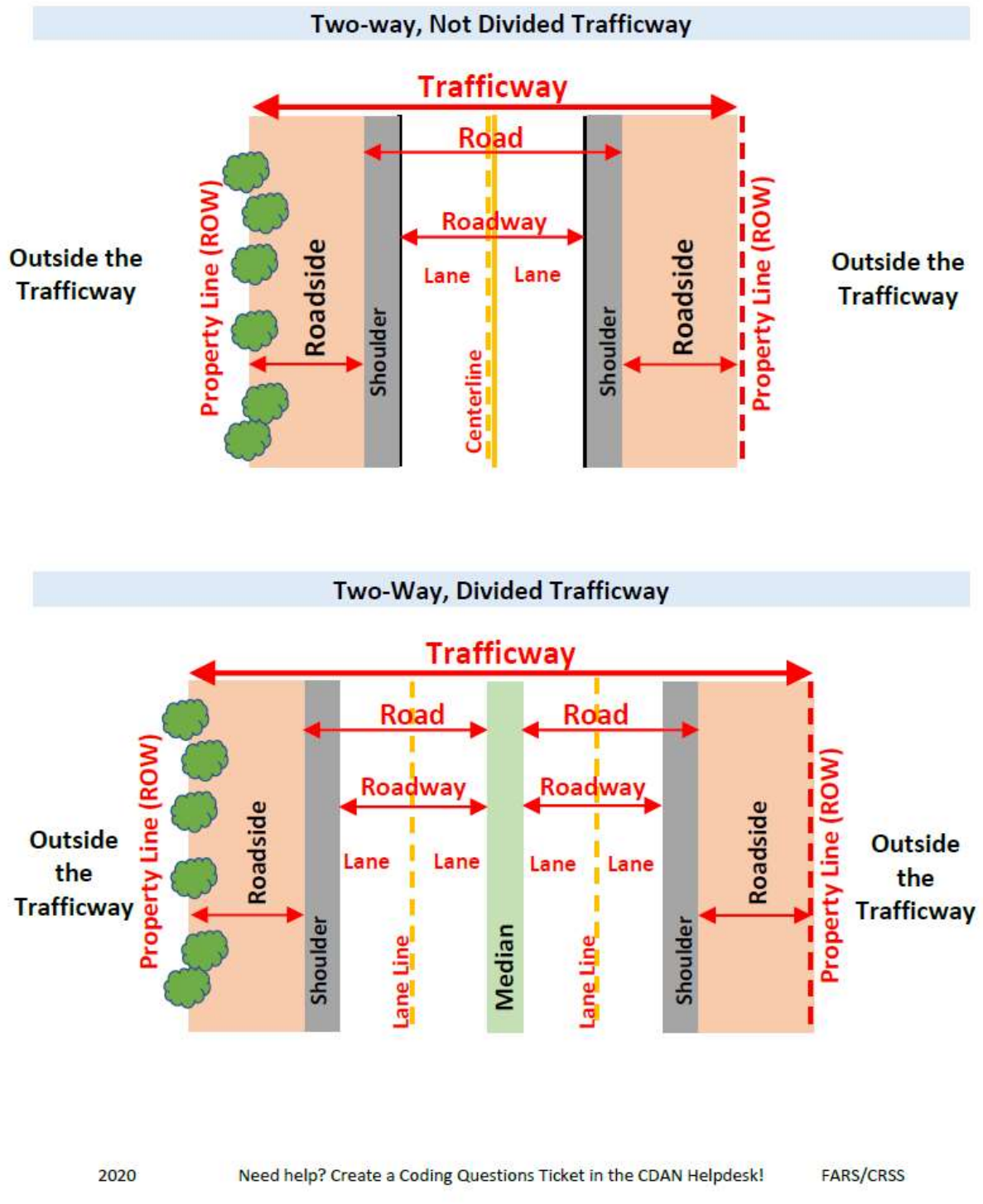
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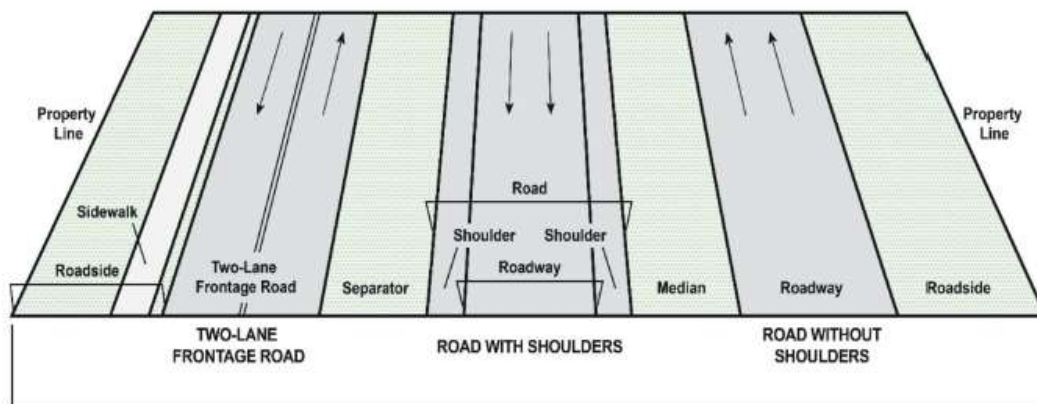


## Trafficway Components

### 2020 FARS/CRSS Coding Guide – Trafficway Components

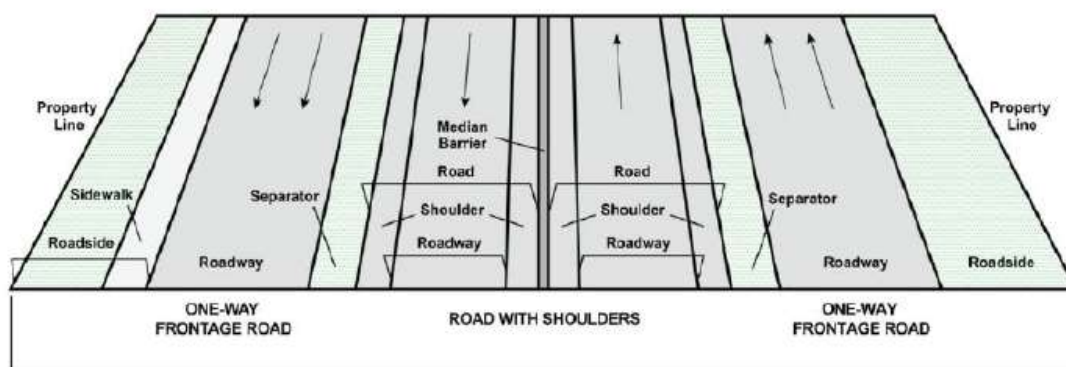


## 2020 FARS/CRSS Coding Guide – Trafficway Components



TRAFFICWAY

ANSI D.16.1 8th Ed., 2017



TRAFFICWAY

ANSI D.16.1 8th Ed., 2017

### Reminders:

- The Roadway is the traveled portion of the Trafficway (Travel Lanes).
- Travel lanes can be either through travel lanes or turn lanes (regular left turn or continuous left turn lanes).
- Continuous Left Turn Lanes are NOT Medians.
- An undivided Trafficway has one Roadway.
- A divided Trafficway has more than one Roadway.
- The Shoulder is not part of the Roadway.
- The Shoulder and the Roadway combine to make up the ROAD.
- The property beyond the Shoulder, but within the Trafficway, is the Roadside.
- The Trafficway extends from the Property Line (or Right-of-Way Line) on one side to the Property Line (or Right-of-Way Line) on the other side and includes all the components within.

## Vehicle Components and Areas of Impact

### 2020 FARS/CRSS Coding Guide – Vehicle Components

Officers may refer to vehicle components associated with impacts in a crash. For example, “V1 struck V2 at the A-pillar.”

**Pillars** – The vertical or near vertical supports of a car’s window area or greenhouse designated respectively as the A, B, C, or (in larger cars) D-pillar, moving from the front to rear, in profile view. They are important for holding glass in place and adding structural integrity to a vehicle, primarily the roof. Not all vehicles have the same number of pillars.

**Greenhouse** – Also referred to as “glasshouse” includes the car’s roof, windshield, rear and side windows, and the pillars separating them, starting from the car’s front (i.e., A- pillar, B-pillar).

**A-pillar** – The front pillar on a car’s greenhouse that holds the windshield in place.

**B-pillar** – The second pillar of a car’s greenhouse, usually separating the front and rear door on a standard 4-door style sedan. It starts at the end of the first door. It is the main support for the mid-section of the vehicle. B-pillar is also responsible for where a door’s latch connects to the body. Can sometimes be referred to as “posts.”

**C-pillar** – The third of a car’s greenhouse, located behind the rear seat. It is the final pillar when it comes to sedans, hatchbacks, and small SUVs.

**D-pillar** – The pillar located behind the third row of seating in vehicles like minivans or large SUVs.

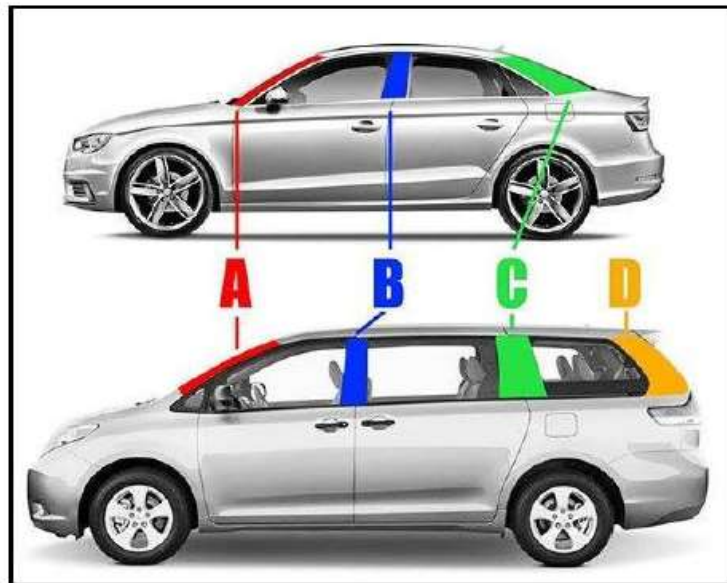
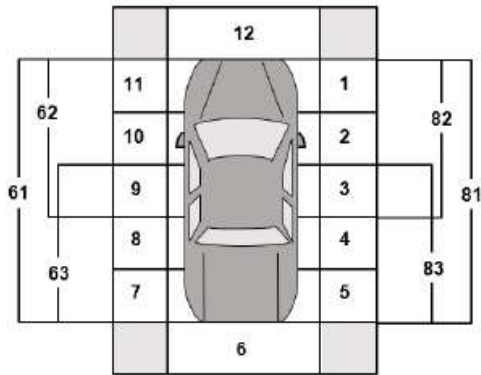


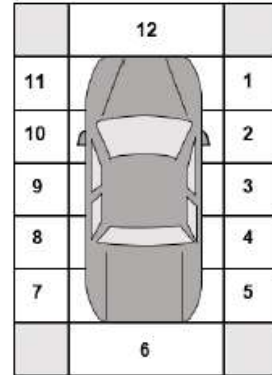
Image source: <https://www.wheelswisdom.com/blogs/car-driving/your-cars-pillars-of-support/>

## 2020 FARS/CRSS Coding Guide – Areas of Impact

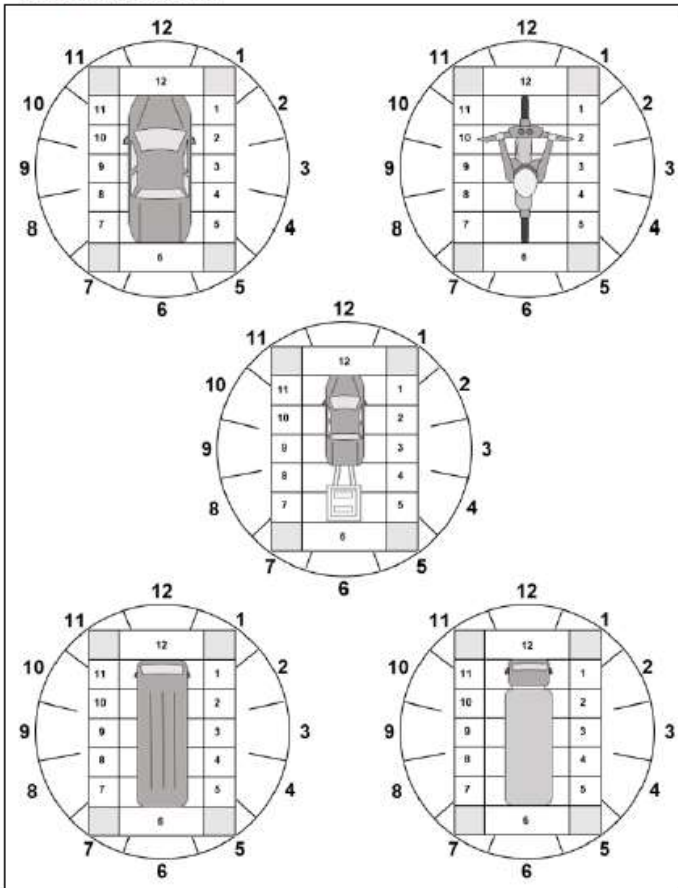
**AOI-Initial Contact Point, Element Values Diagram**



**AOI-Damaged Areas, Element Values Diagram**



**Clockpoint Diagram**



### Guideline for Resolving Ambiguous Information

If the language in the narrative is ambiguous **AND** the diagram or other case information don't provide resolution, use the area indicated **first in the narrative wording** to select the Area of Impact to code.

See examples table below.

### Examples:

| Narrative Description | Coding |
|-----------------------|--------|
| Front, left           | 12     |
| Left, front           | 62     |
| Front, corner         | 12     |
| Right, rear           | 83     |
| Back, right side      | 06     |

## **Appendix B: 2020 Consistency Checks**

[0 Series](#)

[1 Series](#)

[2 Series](#)

[3 Series](#)

[4 Series](#)

[5 Series](#)

[6 Series](#)

[7 Series](#)

[8 Series](#)

[9 Series](#)

[A Series](#)

[B Series](#)

[C Series](#)

[D Series](#)

[E Series](#)

[F Series](#)

[G Series](#)

[P Series](#)

[U Series](#)

[V Series](#)



The following pages contain Consistency Checks arranged in alpha/numeric order. ***For help with consistency checks, see section [400. Understanding and Managing Consistency Checks](#).***

All questions concerning the FARS/CRSS Coding Manual and coding issues should be directed through the CDAN Helpdesk, to Coding Questions. ***See the [Coding Guide: How to Create a Coding Question Ticket in the CDAN Helpdesk](#) for helpful information.***

## 0 Series

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                     |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 050P            | If PERSON TYPE equals 04-07, 10-19, and NUMBER OF VEHICLE FORMS SUBMITTED equals 001, then VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST must equal 001.                                                         |
| 060P            | If VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is not equal to 000, then the VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST must equal some VEHICLE NUMBER in the case, and the UNIT TYPE must equal 1. |
| 0PB1            | If PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 741, then at least one NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must equal 11.                                                                                 |
| 0PB2            | If PEDESTRIAN BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 760, then at least one NON-MOTORIST CONTRIBUTING CIRCUMSTANCES should equal 02.                                                                               |

## 1 Series

| <b>Error ID</b> | <b>Error Message</b>                                                                                                              |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------|
| 170F            | If CRASH MONTH equals current month, then CRASH DAY should be at least 2 days prior to current day or 99.                         |
| 1A0P            | If RELATED FACTORS-CRASH LEVEL equals 014, then NUMBER OF VEHICLE FORMS SUBMITTED must be greater than 001.                       |
| 1A1P            | If RELATED FACTORS-CRASH LEVEL equals 005, then ROADWAY SURFACE CONDITIONS must equal 06 for at least one vehicle.                |
| 1C0P            | If the VEHICLE MODEL YEAR is not equal to 9998 or 9999, then the VEHICLE MODEL YEAR must not be greater than CRASH YEAR plus ONE. |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1C1P            | If <i>[[VEHICLE MODEL YEAR is greater than or equal to 2000 and vPIC BODY CLASS does not equal 004 (Low Speed Vehicle (LSV) / Neighborhood Electric Vehicle (NEV)), 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring / Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-Road Vehicle - Dirt Bike / Off-Road), 085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small / Minibike), 088 (Off-road Vehicle - Go Kart), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 097 (Off-road Vehicle - Snowmobile), 098 (Motorcycle - Street), 100 (Motorcycle - Enclosed Three Wheeled / Enclosed Autocycle), 103 (Motorcycle - Unenclosed Three Wheeled / Open Autocycle), 104 (Motorcycle - Moped), 105 (Off-road Vehicle - Recreational Off-Road Vehicle (ROV)), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 124 (Off-road Vehicle - Golf Cart), 125 (Motorcycle - Unknown Body Type), 126 (Off-road Vehicle - Farm Equipment), 127 (Off-road Vehicle - Construction Equipment), 996 (Motorized Bicycle), or 997 (Other)], or [vPIC BODY CLASS equals 006 (Motorcycle - Standard), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 109 (Motorcycle - Cross Country), or 125 (Motorcycle - Unknown Body Type), and VEHICLE MODEL YEAR is greater than 2020]], and STATE NUMBER does not equal 8 (CO), 17 (IL), 23 (ME), 26 (MI), or 28 (MS), then MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S) Subfield 1 should not equal 00 or 99.</i> |
| 1D0P            | If SPECIAL USE equals 01 or 20, then vPIC Body Class should equal 002 (Minivan), 003 (Coupe), 005 (Hatchback/Liftback/Notchback), 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 008 (Crossover Utility Vehicle (CUV)), 09 (Van), 013 (Sedan/Saloon), 015 (Wagon), 060 (Pickup), or 119 (Sport Utility Truck (SUT)).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 1D0Q            | If SPECIAL USE equals 00-03, 19, 20-24, then EMERGENCY MOTOR VEHICLE USE must equal 0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 1D0R            | If SPECIAL USE equals 23, then REGISTERED VEHICLE OWNER should equal 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 1D0S            | If SPECIAL USE equals 10, 11, 12, 21, 22, or 24, then REGISTERED VEHICLE OWNER should equal 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>1D0T</b>     | <b>If SPECIAL USE equals 19, then REGISTERED VEHICLE OWNER must not equal 1.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 1D1P            | If SPECIAL USE equals 24, then UNIT TYPE must equal 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 1D2P            | If SPECIAL USE equals 12 or 21, then at least one RELATED FACTORS - VEHICLE LEVEL must equal 042.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>1E0P</b>     | <b>If SPECIAL USE equals 19, then vPIC Body Class must not equal a 011 (Truck), 016 (Bus), 066 (Truck-Tractor), 068 (Streetcar / Trolley), 073 (Bus - School Bus), 095 (Cargo Van), 111 (Step Van / Walk-in Van), 117 (Limousine), 126 (Off-road Vehicle - Farm Equipment), or 127 (Off-road Vehicle - Construction Equipment), and FINAL STAGE BODY CLASS must not equal 011 (Truck), 016 (Bus), 066 (Truck-Tractor), 068 (Streetcar / Trolley), 073 (Bus - School Bus), 095 (Cargo Van), 111 (Step Van / Walk-in Van), or 117 (Limousine).</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 1F1P            | If RELATION TO JUNCTION (b) does not equal 02, 03, then the second TRAFFICWAY IDENTIFIER should be blank.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                      |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1G0P            | If <i>any</i> RELATED FACTORS-VEHICLE LEVEL equals <b>000 or 999</b> , then <b><i>only that one code and no other must be coded.</i></b>                  |
| 1H0F            | If DRIVER PRESENCE equals 0, 9, then PREVIOUS SPEEDING CONVICTIONS must be blank.                                                                         |
| 1H1F            | If DRIVER PRESENCE equals 0, 9, then DRIVER'S LICENSE STATE must be blank.                                                                                |
| 1H2F            | If DRIVER PRESENCE equals 0, 9, then LICENSE COMPLIANCE WITH CLASS OF VEHICLE must be blank.                                                              |
| 1H3F            | If DRIVER PRESENCE equals 0, 9, then NON-CDL LICENSE STATUS and COMMERCIAL MOTOR VEHICLE LICENSE STATUS must be blank.                                    |
| 1H4F            | If DRIVER PRESENCE equals 0, 9, then COMPLIANCE WITH LICENSE RESTRICTIONS must be blank.                                                                  |
| 1H6F            | If DRIVER PRESENCE equals 0, 9, then VIOLATIONS CHARGED must be blank.                                                                                    |
| 1H7F            | If DRIVER PRESENCE equals 0, 9, then PREVIOUS RECORDED CRASHES must be blank.                                                                             |
| 1H8F            | If DRIVER PRESENCE equals 0, 9, then all three Subfields of PREVIOUS RECORDED SUSPENSIONS AND REVOCATIONS must be blank.                                  |
| 1H9F            | If DRIVER PRESENCE equals 0, 9, then PREVIOUS DWI CONVICTIONS must be blank.                                                                              |
| 1HAF            | If DRIVER PRESENCE equals 0, 9, then PREVIOUS OTHER MOVING VIOLATION CONVICTIONS must be blank.                                                           |
| 1HBF            | If DRIVER PRESENCE equals 0, 9, then DATE OF <b><i>MOST RECENT</i></b> CRASH, SUSPENSION, CONVICTION must be blank.                                       |
| 1HCF            | If DRIVER PRESENCE equals 0, 9, then DATE OF <b><i>OLDEST</i></b> CRASH, SUSPENSION, CONVICTION must be blank.                                            |
| 1HDF            | If DRIVER PRESENCE equals 0, 9, then DRIVER HEIGHT (feet and inches) must equal blank.                                                                    |
| 1HEF            | If DRIVER PRESENCE equals 0, 9, then DRIVER WEIGHT must equal blank.                                                                                      |
| 1HFF            | If DRIVER PRESENCE equals 0, 9, then SPEEDING RELATED must be blank.                                                                                      |
| 1HJF            | If DRIVER'S VISION OBSCURED BY equals 95, then DRIVER PRESENCE must equal 0 or 9.                                                                         |
| 1I0P            | If DRIVER'S LICENSE STATE equals 99, then NON-CDL LICENSE STATUS must not equal 0-4, 6, and COMMERCIAL MOTOR VEHICLE LICENSE STATUS must not equal 00-08. |
| 1K0P            | If DRIVER'S LICENSE STATE equals 99, then LICENSE COMPLIANCE WITH CLASS OF VEHICLE must not equal 0-3.                                                    |
| <b>1L1P</b>     | <b><i>If any RELATED FACTORS - DRIVER LEVEL equals 028, then there must not be any RELATED FACTORS - DRIVER LEVEL equal to 033 or 051.</i></b>            |
| 1L2P            | If any DRIVER'S VISION OBSCURED BY equals 00 or 95 or 99, then only that one code and no other must be coded for this vehicle.                            |
| 1L4P            | If any DRIVER'S VISION OBSCURED BY equals 09, then at least one CONTRIBUTING CIRCUMSTANCES, MOTOR VEHICLE must equal 97.                                  |
| 1L5P            | If any DRIVER'S VISION OBSCURED BY equals 10, then at least one CONTRIBUTING CIRCUMSTANCES, MOTOR VEHICLE must equal 07 or 08 or 09.                      |



| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                    |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1L6P            | If RELATED FACTORS-DRIVER equals 33, then SCHOOL BUS RELATED should equal 1.                                                                                                            |
| 1M1F            | If RELATED FACTORS-PERSON LEVEL (Not a MV Occupant) equals 013, then PERSON TYPE should equal 11.                                                                                       |
| <b>1M2F</b>     | <b>If at least one RELATED FACTORS - PERSON (NOT A MOTOR VEHICLE OCCUPANT) LEVEL equals 101, then PERSON TYPE must not equal 04 or 10.</b>                                              |
| <b>1M3F</b>     | <b>If at least one RELATED FACTORS - PERSON (NOT A MOTOR VEHICLE OCCUPANT) LEVEL equals 100, THEN PERSON TYPE should equal 06, 11, 12, or 13.</b>                                       |
| 1N0F            | If PERSON TYPE equals 06, then RELATED FACTORS-PERSON (Not a MV Occupant) LEVEL must not equal 009, 013, 069, 070, 090, 094-097.                                                        |
| 1N1F            | If PERSON TYPE equals 10, then RELATED FACTORS-PERSON LEVEL must not equal 009, 021, 037, 040-042, 051, 052, 053, 054, 055, 056, 057, 060-070, 072-078, 080-083, 090, 091, 100, or 101. |
| 1N4F            | If NON-MOTORIST SAFETY EQUIPMENT Subfield 5- Non-Motorist Use of Lighting equals 2, then NON-MOTORIST CONTRIBUTING CIRCUMSTANCES should not equal 13.                                   |
| 1P0G            | If PERSON TYPE equals 05, then NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must not equal 07, 08, 10, 13-18, 20.                                                                            |
| 1P0H            | If NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, then NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must not equal 02-04, 07-10, 15, 16, 20.                                          |
| 1P1F            | If PERSON TYPE equals 04, 05, 10, 11, 12, 13, or 19, then NON-MOTORIST LOCATION AT TIME OF CRASH should not equal 16 for this person.                                                   |
| 1P1G            | If PERSON TYPE equals 19, then NON-MOTORIST ACTION/ CIRCUMSTANCES should not equal 11, 12.                                                                                              |
| 1P1H            | If NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 22, then NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must not equal 01, 02, 04, 07, 08, 11,15, 20.                                     |
| 1P2F            | If PERSON TYPE equals 10, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 25.                                                                                                    |
| 1P2H            | If NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 23, then NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must not equal 12, 15.                                                            |
| 1P3F            | If PERSON TYPE (NM7) equals 10, then NON-MOTORIST ACTION/CIRCUMSTANCES (NM11) must not equal 01-12, 16, and NON-MOTORIST CONTRIBUTING CIRCUMSTANCES (NM12) must not equal 01-20.        |
| 1P3G            | If PERSON TYPE equals 04, 06, 07, then NON-MOTORIST CONTRIBUTING CIRCUMSTANCES should not equal 04.                                                                                     |
| 1P3H            | If NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 24, then NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must not equal 01, 03, 04, 10, 11.                                                |
| 1P4F            | If PERSON TYPE equals 04, then NON-MOTORIST ACTION/ CIRCUMSTANCES must not equal 04, 12.                                                                                                |
| 1P4G            | If PERSON TYPE equals 04, 06, 07, 11, 12, 13, 19, then NON-MOTORIST CONTRIBUTING CIRCUMSTANCES should not equal 05.                                                                     |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                               |
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| 1P4H            | If NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 25, then NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must not equal 01-04, 10, 11, 12, 15-17, 20.                 |
| 1P5F            | If PERSON TYPE equals 06, <b>07, 11, 12, 13, or</b> 19, then NON-MOTORIST ACTION/CIRCUMSTANCES must not equal 04.                                                  |
| 1P5G            | If PERSON TYPE equals <b>11, 12, or 13</b> , then NON-MOTORIST CONTRIBUTING CIRCUMSTANCES should not equal 20.                                                     |
| 1P5H            | If NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 28, 98, 99, then NON-MOTORIST CONTRIBUTING CIRCUMSTANCES should not equal 01, 03, 04, 10, 11, 12, 15, 16, 20. |
| 1P6G            | If PERSON TYPE equals 04, 06, <b>07, 11, 12, 13, or</b> 19, then CONDITION (IMPAIRMENT) AT TIME OF CRASH must not equal 03.                                        |
| 1P6H            | If NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 16, then NON-MOTORIST CONTRIBUTING CIRCUMSTANCES should not equal 04, 16.                                     |
| 1P7F            | If PERSON TYPE equals 04, then NON-MOTORIST ACTION/ CIRCUMSTANCES should not equal 10, 11.                                                                         |
| 1P7G            | If PERSON TYPE equals 05-07, 19, then CONDITION (IMPAIRMENT) AT TIME OF CRASH should not equal 04.                                                                 |
| 1P7H            | If NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, then NON-MOTORIST CONTRIBUTING CIRCUMSTANCES should not equal 01, 05, 11, 12, 17.                         |
| 1P8F            | If PERSON TYPE equals 06, 07, then NON-MOTORIST ACTION/CIRCUMSTANCES should not equal 10-12.                                                                       |
| 1P8G            | If PERSON TYPE equals 10, then CONDITION (IMPAIRMENT) AT TIME OF CRASH should not equal 01-10, 96.                                                                 |
| 1P8H            | If NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 23, then NON-MOTORIST CONTRIBUTING CIRCUMSTANCES should not equal 02.                                         |
| 1P9F            | If PERSON TYPE equals <b>11, 12, or 13</b> , then NON-MOTORIST ACTION/ CIRCUMSTANCES should not equal 11.                                                          |
| 1P9G            | If NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 20, then NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must not equal 02-04, 15.                                    |
| 1P9H            | If NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 24, then NON-MOTORIST CONTRIBUTING CIRCUMSTANCES should not equal 02, 05, 12, 15, 16.                         |
| 1PH0            | If NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 25, then NON-MOTORIST CONTRIBUTING CIRCUMSTANCES should not equal 07-09.                                      |
| 1PJ1            | If NON-MOTORIST LOCATION AT TIME OF CRASH equals 16, then the PERSON TYPE for this person should equal 06 or 07.                                                   |
| 1PK2            | If NON-MOTORIST LOCATION AT TIME OF CRASH equals 21, then SIDEWALK PRESENT must equal 1.                                                                           |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| 1PK3            | If NON-MOTORIST LOCATION AT TIME OF CRASH equals 01 or 10, then MARKED CROSSWALK PRESENT must equal 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 1Q0F            | If PERSON TYPE equals 01, and <b>vPIC BODY CLASS equals 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 69 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport/Adventure/Supermoto/On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 90 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 104 (Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle)</b> , then SEATING POSITION must not equal 12-56, 99. |
| 1R0P            | If SEATING POSITION equals 51, and <b>vPIC BODY CLASS equals 016 (Bus), 068 (Streetcar / Trolley), or 73 (Bus-School Bus), or FINAL STAGE BODY CLASS equals 016 (Bus), 068 (Streetcar / Trolley), or 73 (Bus-School Bus)</b> , then INJURY SEVERITY must not equal 0, 9.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 1R1P            | If DIED AT SCENE/EN ROUTE equals 7, 8, then INJURY SEVERITY must equal 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 1T0P            | If SPEED LIMIT for every vehicle is greater than 55, and not equal to 98 or 99, then LAND USE AND FUNCTIONAL SYSTEM (a) should not equal 2 or 6, and LAND USE AND FUNCTIONAL SYSTEM (b) should not equal 06, 07, or 96.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 1U1F            | If INJURY SEVERITY equals 4, then DEATH DATE must not equal 88888888.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 1U2F            | If INJURY SEVERITY equals 4, then DEATH TIME must not equal 8888.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 1V0P            | If DEATH MONTH or DAY equals 88, or DEATH YEAR equals 8888, then all must equal 8s.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 1W0P            | If any RELATED FACTORS-PERSON LEVEL equals <b>000 or 999</b> , then <b>only that one code and no other must be coded</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 1Y0P            | If RELATION TO JUNCTION (b) equals 06, then RAIL GRADE CROSSING IDENTIFIER must not equal 0000000.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 1Z0N            | SEQUENCE OF EVENTS for this vehicle should not include more than one occurrence of 01. Please see SEQUENCE OF EVENTS remarks for <a href="#">01 (Rollover/Overturn)</a> to confirm coding.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 1Z1N            | SEQUENCE OF EVENTS for this vehicle should not equal 01, 67 consecutively or 67, 01 consecutively.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 1Z1P            | If any SEQUENCE OF EVENTS equals 66, then ROADWAY GRADE should equal 6 for this vehicle.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| 1Z2P            | If any SEQUENCE OF EVENTS equals 01 <i>and</i> vPIC BODY CLASS does not equal 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 104 (Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle), or any RELATED FACTORS-VEHICLE LEVEL equals 030, then ROLLOVER must equal 1, 2, or 9. |

## 2 Series

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                    |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 200P            | If CITY is greater than 0000 and less than 9997, and COUNTY is greater than 000 and less than 997, then COUNTY and CITY must be valid codes for the STATE.                                                              |
| 210P            | If CITY is greater than 0000 and less than 9997, then COUNTY must not equal 999.                                                                                                                                        |
| 220P            | If LIGHT CONDITION equals 4, and STATE is not equal to 02, then CRASH TIME must equal 0300-0900, 9999.                                                                                                                  |
| 2300            | If LIGHT CONDITION equals 5, and STATE is not equal to 02, then CRASH TIME should equal 1600-2200, 9999.                                                                                                                |
| 250P            | If RELATION TO JUNCTION (b) equals 01, 02, 04, 06, 07, 16-19, 98, 99, and RELATION TO TRAFFICWAY equals 03, then TRAFFICWAY DESCRIPTION should equal 2, 3 for at least one vehicle involved in the first harmful event. |
| 251P            | If RELATION TO TRAFFICWAY equals 98, 99, then TYPE OF INTERSECTION should equal 98, 99.                                                                                                                                 |
| 252P            | If RELATION TO TRAFFICWAY equals 01, 02, 03, 04, 07, 08, 10, 11, 12, 98, or 99, then UNIT TYPE for VEHICLE NUMBER (OTHER VEHICLE) involved in the FIRST HARMFUL EVENT must not equal 3.                                 |
| 253P            | If RELATION TO TRAFFICWAY equals 03, then CRASH TYPE should equal 06-10, 98 or 99 for the in-transport vehicles involved in the FIRST HARMFUL EVENT.                                                                    |
| 254P            | If RELATION TO TRAFFICWAY equals 01, and RELATION TO JUNCTION (b) equals 20, then TRAFFICWAY DESCRIPTION must equal 6 for at least one vehicle involved in the FIRST HARMFUL EVENT.                                     |
| 255P            | If RELATION TO TRAFFICWAY equals 01 or 11, then UNIT TYPE for VEHICLE NUMBER (THIS VEHICLE) involved in the FIRST HARMFUL EVENT must equal 1.                                                                           |
| 256P            | If RELATION TO TRAFFICWAY equals 01 or 11, then UNIT TYPE for VEHICLE NUMBER (OTHER VEHICLE) involved in the FIRST HARMFUL EVENT should equal 1 or 4.                                                                   |
| 257P            | If RELATION TO TRAFFICWAY equals 05, then UNIT TYPE for VEHICLE NUMBER (OTHER VEHICLE) involved in the FIRST HARMFUL EVENT must equal 1, 3 or 4.                                                                        |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| 258P            | If RELATION TO JUNCTION (b) is 05 or 20, then TRAFFICWAY DESCRIPTION should equal 6 for <b>at least one</b> vehicle involved in the FIRST HARMFUL EVENT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 260P            | If ROUTE SIGNING equals 1, then NATIONAL HIGHWAY SYSTEM must equal 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 2B0P            | If JACKKNIFE equals 1-3, then VEHICLE TRAILING must not equal 0, 9.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 2D0P            | If SPECIAL USE equals 02, then <b>vPIC Body Class</b> should equal <b>002 (Minivan), 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 008 (Crossover Utility Vehicle (CUV)), 009 (Van), 016 (Bus), 073 (Bus - School Bus), or 119 (Sport Utility Truck (SUT)), or FINAL STAGE BODY CLASS should equal 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 008 (Crossover Utility Vehicle (CUV)), 009 (Van), 016 (Bus), or 073 (Bus - School Bus).</b>                                                                                                                                                     |
| 2F0F            | If NUMBER OF OCCUPANTS equals 00, then DRIVER PRESENCE must equal 0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 2H0F            | If DRIVER PRESENCE equals 0, 9, then RELATED FACTORS-DRIVER LEVEL must not equal <b>004, 008, 010, 012, 013, 015, 016, 019, 052, 053, 058, 059, 073, 074, 077-088, 094-097.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 2H1F            | If UNIT TYPE equals 1 and DRIVER PRESENCE equals 0 or 9, then DRIVER'S VISION OBSCURED BY must equal 95.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 2I0P            | If DRIVER'S LICENSE STATE equals 99, then COMPLIANCE WITH LICENSE RESTRICTIONS must not equal 0-3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 2J0P            | If all counters are not blanks and PREVIOUS RECORDED CRASHES is not equal to 98 and any counters are not equal to 00, 99, then DATE OF <b>MOST RECENT</b> CRASH, SUSPENSION, CONVICTION must not equal 000000, 999999.                                                                                                                                                                                                                                                                                                                                                                                                             |
| 2J1P            | If all counters are not blanks and PREVIOUS RECORDED CRASHES is not equal to 98, and any counters are not equal to 00, 99, then DATE OF <b>OLDEST</b> CRASH, SUSPENSION, CONVICTION must not equal 000000, 999999.                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 2K0P            | DATE OF <b>OLDEST</b> CRASH, SUSPENSION, CONVICTION must be less than or equal to DATE OF <b>MOST RECENT</b> CRASH, SUSPENSION, CONVICTION.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 2L0P            | If any RELATED FACTORS-DRIVER LEVEL equal <b>000 or 999, only that one code and no other must be coded.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 2M0F            | If PERSON TYPE equals 01, then SEATING POSITION must not equal 21-56, <b>98, or 99.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 2P0G            | If CONDITION (IMPAIRMENT) AT TIME OF CRASH equals 03, then PERSON TYPE must be 05, 10, <b>11, 12, 13,</b> or 19.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>2P1F</b>     | <b>If PERSON TYPE equals 04, 06, 07, or 10, then NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must not equal 12.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 2Q0F            | If PERSON TYPE equals 02 <b>or</b> 03, and <b>vPIC BODY CLASS equals 001 (Convertible/Cabriolet), 003 (Coupe), 005 (Hatchback/Liftback/Notchback), 010 (Roadster), 013 (Sedan/Saloon), 060 (Pickup), 095 (Cargo Van), 105 (Off-road Vehicle - Recreational Off-Road Vehicle (ROV)), 108 (Motorhome), 111 (Step Van / Walk-in Van), 117 (Limousine), 126 (Off-road Vehicle - Farm Equipment), or 127 (Off-road Vehicle - Construction Equipment), or FINAL STAGE BODY CLASS equals 060 (Pickup) 095 (Cargo Van), 108 (Motorhome), 111 (Step Van / Walk-in Van), or 117 (Limousine),</b> then SEATING POSITION must not equal 31-50. |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| 2R0P            | If RESTRAINT SYSTEM USE Subfield 1 Type of Restraint System in Use equals 01-06 <b>or</b> 08-12, then <b>vPIC BODY CLASS must not equal 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport/Adventure/Supermoto/On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 097 (Off-road Vehicle - Snowmobile), 098 (Motorcycle - Street), 104 (Motorcycle - Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle).</b> |
| 2R1P            | If RESTRAINT SYSTEM USE Subfield 2 Any Indication of Mis-Use equals 1, then RESTRAINT SYSTEM USE Subfield 1 Type of Restraint System in Use must equal 01-06, 08-12, 97.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 2R3P            | If RESTRAINT SYSTEM USE Subfield 1-Type of Restraint System in Use equals 1-4, 6, 8, 10-12, or 97; then RESTRAINT SYSTEM USE Subfield 2 - Any Indication of Mis-Use must equal 0 or 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 2S0P            | If HELMET USE Subfield 1 Helmet Use equals 05, 16, 17, 19, or 99, then AIR BAG DEPLOYED should equal 20, 98.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 2S1P            | If HELMET USE Subfield 1 Helmet Use equals 17, 98, or 99, then HELMET USE Subfield 2 Any Indication of Mis-Use must equal 7.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 2S2P            | If HELMET USE Subfield 2-Any Indication of Mis-Use equals 1, then HELMET USE Subfield 1 - Helmet Use must equal 05, 16, or 19.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 2S3P            | If RESTRAINT SYSTEM USE Subfield 1-Type of Restraint System in Use equals 20, 98, or 99, then RESTRAINT SYSTEM USE Subfield 2 - Any Indication of Mis-Use must equal 7.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 2S4P            | If AGE equals 0-4 and RESTRAINT SYSTEM USE Subfield 1-Type of Restraint System in Use does not equal 04, 10, 11, 12, 20, 98, or 99, then RESTRAINT SYSTEM USE Subfield 2 - Any Indication of Mis-Use must equal 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 2S5P            | If AGE equals 5-7 and RESTRAINT SYSTEM USE Subfield 1-Type of Restraint System in Use does not equal 04, 10, 12, 20, 98, or 99, then RESTRAINT SYSTEM USE Subfield 2 - Any Indication of Mis-Use must equal 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 2S6P            | If HELMET USE Subfield 1 Helmet Use equals 5, 16, or 19, then HELMET USE Subfield 2 Any Indication of Mis-Use must equal 0 or 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| 2U0P            | If <b>vPIC BODY CLASS</b> equals 004 ( <i>Low Speed Vehicle (LSV)/Neighborhood Electric Vehicle (NEV)</i> ), 006 ( <i>Motorcycle - Standard</i> ), 012 ( <i>Motorcycle - Scooter</i> ), 069 ( <i>Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)</i> ), 080 ( <i>Motorcycle - Sport</i> ), 081 ( <i>Motorcycle - Touring/Sport Touring</i> ), 082 ( <i>Motorcycle - Cruiser</i> ), 083 ( <i>Motorcycle - Trike</i> ), 084 ( <i>Off-Road Vehicle - Dirt Bike/Off-Road</i> ), 085 ( <i>Motorcycle - Dual Sport/Adventure/Supermoto/On/Off-Road</i> ), 086 ( <i>Off-Road Vehicle - Enduro (Off-road long-distance racing)</i> ), 087 ( <i>Motorcycle - Small/Minibike</i> ), 088 ( <i>Off-road Vehicle - Go Kart</i> ), 090 ( <i>Motorcycle - Side Car</i> ), 094 ( <i>Motorcycle - Custom</i> ), 097 ( <i>Off-road Vehicle - Snowmobile</i> ), 098 ( <i>Motorcycle - Street</i> ), 100 ( <i>Motorcycle - Enclosed Three Wheeled / Enclosed Autocycle</i> ), 103 ( <i>Motorcycle - Unenclosed Three Wheeled / Open Autocycle</i> ), 104 ( <i>Motorcycle - Moped</i> ), 105 ( <i>Off-road Vehicle - Recreational Off-Road Vehicle (ROV)</i> ), 109 ( <i>Motorcycle - Cross Country</i> ), 110 ( <i>Motorcycle - Underbone</i> ), 113 ( <i>Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)</i> ), 114 ( <i>Motorcycle - Competition</i> ), 124 ( <i>Off-road Vehicle - Golf Cart</i> ), 125 ( <i>Motorcycle - Unknown Body Type</i> ), 126 ( <i>Off-road Vehicle - Farm Equipment</i> ), 127 ( <i>Off-road Vehicle - Construction Equipment</i> ), 996 ( <i>Motorized Bicycle</i> ), or 997 ( <i>Other</i> ), or <b>FINAL STAGE BODY CLASS</b> equals 004 ( <i>Low Speed Vehicle (LSV)/Neighborhood Electric Vehicle (NEV)</i> ), then <b>AIR BAG DEPLOYED</b> should equal 20 or 98. |
| 2U0Q            | If <b>vPIC BODY CLASS</b> equals 006 ( <i>Motorcycle - Standard</i> ), 012 ( <i>Motorcycle - Scooter</i> ), 080 ( <i>Motorcycle - Sport</i> ), 081 ( <i>Motorcycle - Touring/Sport Touring</i> ), 082 ( <i>Motorcycle - Cruiser</i> ), 083 ( <i>Motorcycle - Trike</i> ), 084 ( <i>Off-Road Vehicle - Dirt Bike/Off-Road</i> ), 085 ( <i>Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road</i> ), 086 ( <i>Off-Road Vehicle - Enduro (Off-road long-distance racing)</i> ), 087 ( <i>Motorcycle - Small / Minibike</i> ), 090 ( <i>Motorcycle - Side Car</i> ), 094 ( <i>Motorcycle - Custom</i> ), 098 ( <i>Motorcycle - Street</i> ), 104 ( <i>Moped</i> ), 109 ( <i>Motorcycle - Cross Country</i> ), 110 ( <i>Motorcycle - Underbone</i> ), 113 ( <i>Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)</i> ), 114 ( <i>Motorcycle - Competition</i> ), 125 ( <i>Motorcycle - Unknown Body Type</i> ), or 996 ( <i>Motorized Bicycle</i> ), then <b>AREAS OF IMPACT - INITIAL CONTACT POINT</b> should not equal 14.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 2U1F            | If <b>INJURY SEVERITY</b> is not equal to 4, then <b>DEATH DATE</b> must equal 88888888.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 2U2F            | If <b>INJURY SEVERITY</b> is not equal to 4, then <b>DEATH TIME</b> must equal 8888.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 2U3F            | If <b>INJURY SEVERITY</b> equals 3, then <b>TRANSPORTED TO FIRST MEDICAL FACILITY BY</b> should not equal 0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 2V0P            | If <b>DEATH DAY</b> is 01-31, and <b>DEATH MONTH</b> is 01-12, then <b>DEATH DAY</b> must be a valid day for <b>DEATH MONTH</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 2Z0F            | If any <b>SEQUENCE OF EVENTS</b> equals 12, 14, 45, 54, 55, then <b>NUMBER OF VEHICLE FORMS SUBMITTED</b> must be greater than 001.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

### 3 Series

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                       |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 300P            | If NATIONAL HIGHWAY SYSTEM equals 0, 9, then LAND USE AND FUNCTIONAL SYSTEM (b) must not equal 01.                                                                         |
| 320P            | If LAND USE AND FUNCTIONAL SYSTEM (b) equals 01, and ROUTE SIGNING does not equal 7, then NATIONAL HIGHWAY SYSTEM must equal 1.                                            |
| 330P            | If NATIONAL HIGHWAY SYSTEM equals 0, 9, then ROUTE SIGNING must not equal 1.                                                                                               |
| 340P            | If ROUTE SIGNING equals 1, then the first position of TRAFFICWAY IDENTIFIER #1 must be "I" and the second position must be "-".                                            |
| 341P            | If the first position of TRAFFICWAY IDENTIFIER No. 1 equals "I" and the second position equals "-", then ROUTE SIGNING must equal 1 or 7.                                  |
| 350P            | If ROUTE SIGNING is 2, then the first two positions of TRAFFICWAY IDENTIFIER No. 1 must be "US" and the third position must be "-".                                        |
| 351P            | If the first two positions of TRAFFICWAY IDENTIFIER #1 equals "US" and third position equals "-", then ROUTE SIGNING must equal 2 or 7.                                    |
| 360P            | If ROUTE SIGNING equals 3, then the first two positions of TRAFFICWAY IDENTIFIER No. 1 must be "SR" and the third position must be "-".                                    |
| 361P            | If the first two positions of TRAFFICWAY IDENTIFIER #1 equals "SR" and third position equals "-", then ROUTE SIGNING must equal 3 or 7.                                    |
| 362P            | If ROUTE SIGNING equals 4, then the first two positions of TRAFFICWAY IDENTIFIER #1 must be "CR" and the third position must be "-".                                       |
| 39IP            | If TRAVEL SPEED is equal to 000 and ATTEMPTED AVOIDANCE MANEUVER equals 01, then PRE-IMPACT STABILITY must equal 1.                                                        |
| 3A0P            | If SPECIAL USE equals 07, then <b>vPIC BODY CLASS must equal 011 (Truck), or FINAL STAGE BODY CLASS must equal 997 (Other (Specify:)).</b>                                 |
| 3B0P            | If JACKKNIFE equals 2, 3, then TRAVEL SPEED must not equal 000.                                                                                                            |
| 3B1P            | If CRASH TYPE equals 21-23, then TRAVEL SPEED must equal 000 for this vehicle.                                                                                             |
| 3B1Q            | If CRITICAL EVENT - PRECRASH (EVENT) equals 81 or 82, then at least one PERSON TYPE should equal 05.                                                                       |
| 3B2P            | If CRASH TYPE equals 20, 24, 28, 34, 36, 38, 40, 50-54, 56, 58 or 60, then AREA OF IMPACT-INITIAL CONTACT POINT must equal 12 for this vehicle.                            |
| 3B2Q            | If CRITICAL EVENT - PRECRASH (EVENT) equals 83 and PRE-IMPACT LOCATION does not equal 4, then at least one PERSON TYPE should equal 04, 06, 07, <b>11, 12, 13</b> , or 19. |
| 3B3P            | If CRASH TYPE equals 21-23, 25-27, 29-31, 35, 37, 39 or 41, then AREAS OF IMPACT-INITIAL CONTACT POINT must equal 6 for this vehicle.                                      |
| 3B3Q            | If CRITICAL EVENT - PRECRASH (EVENT) equals 84 or 85, then at least one PERSON TYPE should equal 04, 06, 07, <b>11, 12, 13</b> , or 19.                                    |
| 3B4P            | If PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 10, then CRASH TYPE must not equal 44-69, 71-73, 76, 77, 79, 81-83, 86-92.                           |



| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                     |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3B5P            | If PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 11, then CRASH TYPE must not equal 44-67, 69-71, 73, 77-81, 83, 86-92.                                             |
| 3B6P            | If CRASH TYPE equals 87, then AREAS OF IMPACT-INITIAL CONTACT POINT must equal 01-05, 81-83 for this vehicle.                                                                            |
| 3B7P            | If CRASH TYPE equals 89, then AREAS OF IMPACT-INITIAL CONTACT POINT must equal 07-11, 61-63 for this vehicle.                                                                            |
| 3B8P            | If CRITICAL EVENT - PRECRASH (EVENT) equals 20, then CRASH TYPE for this vehicle should equal 92.                                                                                        |
| 3BAP            | If UNIT TYPE equals 1, and DRIVER PRESENCE equals 0, then CRASH TYPE must equal 00, 04, 09, 15, 32, 42, 48, 52, 62, 66, 74, 84, 90, 93 or 98.                                            |
| 3BCP            | If CRASH TYPE equals 34, 36, 38, 40, 54, 56, 58 or 60, then DRIVER MANEUVERED TO AVOID must not equal 00.                                                                                |
| 3BDP            | If CRASH TYPE equals 46, 47, and ATTEMPTED AVOIDANCE MANEUVER equals 01 or 99, then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must not equal 01.                       |
| 3BEP            | If CRASH TYPE equals 01 or 06, and ATTEMPTED AVOIDANCE MANEUVER equals 01, then PRE-IMPACT STABILITY should not equal 2-5 or 7.                                                          |
| 3BFP            | If PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 08 or 09, then CRASH TYPE must not equal 46 or 47.                                                                 |
| 3BGP            | If PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 00, then DRIVER PRESENCE must equal 0 or 9.                                                                        |
| 3BHP            | If ATTEMPTED AVOIDANCE MANEUVER does not equal 05-12, 15, 16, 98, then PRE - IMPACT STABILITY must not equal 7.                                                                          |
| 3C00            | If CRASH TYPE equals 68, 72, 76 or 82, then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 11 or 98.                                                           |
| 3C10            | If CRASH TYPE equals 70, 78 or 80, then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 10 or 98.                                                               |
| 3C1Q            | If EXTENT OF DAMAGE equals 0, 2, 4, then VEHICLE REMOVAL must equal 3, 5, 8, or 9.                                                                                                       |
| 3C20            | If this vehicle is involved in the FIRST HARMFUL EVENT and its CRASH TYPE equals 29-31, then this vehicle's PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 02. |
| 3C2Q            | If EXTENT OF DAMAGE equals 8, 9, then VEHICLE REMOVAL should equal 5, 7, 8, 9.                                                                                                           |
| 3C30            | If PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 12, then CRASH TYPE should equal 98.                                                                               |
| 3C3P            | If EXTENT OF DAMAGE equals 6, then VEHICLE REMOVAL must equal 2, 5, 8, or 9.                                                                                                             |
| 3C40            | If CRASH TYPE equals 46, then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 06, 15, 16, or ATTEMPTED AVOIDANCE MANEUVER should equal 07, 09, or 12.           |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3C50            | If CRASH TYPE equals 92, then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 08, 09, 13, 99.                                                                                                                                                                                                                                                                 |
| 3C60            | If CRASH TYPE equals 25-27, 29-31, then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should not equal 05 or 07.                                                                                                                                                                                                                                                       |
| 3C70            | If PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 13, then CRASH TYPE should equal 92 or 98.                                                                                                                                                                                                                                                                     |
| 3C80            | If CRASH TYPE equals 47, then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 06, 15, 16, or ATTEMPTED AVOIDANCE MANEUVER should equal 06, 08 or 11.                                                                                                                                                                                                        |
| 3CA0            | If EXTENT OF DAMAGE for this vehicle equals 0, then DAMAGED AREAS must equal only 15.                                                                                                                                                                                                                                                                                                |
| 3D00            | If CRASH TYPE equals 20-49, and ATTEMPTED AVOIDANCE MANEUVER equals 00, 01, then CRITICAL EVENT - PRECRASH (EVENT) should not equal 12-14, 54, <b>62, 63</b> , 66-68, 71-73 or 80-85.                                                                                                                                                                                                |
| 3D0P            | If SPECIAL USE for any vehicle equals 02, then SCHOOL BUS RELATED must equal 1.                                                                                                                                                                                                                                                                                                      |
| 3D10            | If CRASH TYPE equals 50-67, and ATTEMPTED AVOIDANCE MANEUVER equals 00-01, then CRITICAL EVENT - PRECRASH (EVENT) should not equal 12-14, 51-53, 60, 61, 65, 66, 70, 71, 80-85 or 87-92.                                                                                                                                                                                             |
| 3D20            | If CRASH TYPE equals 14 and ATTEMPTED AVOIDANCE MANEUVER equals 01, then CRITICAL EVENT PRECRASH (EVENT) should equal 14.                                                                                                                                                                                                                                                            |
| 3D50            | If PRE-IMPACT STABILITY equals 1, then CRASH TYPE should not equal 02, 07, 34, 36, 54 or 56.                                                                                                                                                                                                                                                                                         |
| 3D60            | If CRASH TYPE equals 46 or 47, then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should not equal 01.                                                                                                                                                                                                                                                                 |
| 3D70            | If CRITICAL EVENT - PRECRASH (EVENT) equals 01-04, then CONTRIBUTING CIRCUMSTANCES, MOTOR VEHICLE must not equal 00.                                                                                                                                                                                                                                                                 |
| <b>3D80</b>     | <b><i>If CRITICAL EVENT: PRECRASH (EVENT) equals 08 for this vehicle, and CONDITION (IMPAIRMENT) AT TIME OF CRASH equals 09 for this vehicle's driver, and RELATED FACTORS - PERSON (MV OCCUPANT) LEVEL for this vehicle is not equal 005 for any occupants of this vehicle, then another CONDITION (IMPAIRMENT) AT TIME OF CRASH for this vehicle's driver should equal 01.</i></b> |
| <b>3D90</b>     | <b><i>If CRASH TYPE equals 68-75, then CRITICAL EVENT – PRECRASH (EVENT) must not equal 65-68.</i></b>                                                                                                                                                                                                                                                                               |
| 3DB0            | If any CONTRIBUTING CIRCUMSTANCES, MOTOR VEHICLE equal 00 or 99, then only that one code and no other must be coded for this vehicle.                                                                                                                                                                                                                                                |
| 3E00            | If CRITICAL EVENT - PRECRASH (EVENT) equals 65-68 or 70-73 for a vehicle involved in the FIRST HARMFUL EVENT, then RELATION TO JUNCTION (b) should not equal 01 or 18.                                                                                                                                                                                                               |
| <b>3E10</b>     | <b><i>If CRITICAL EVENT - PRECRASH (EVENT) equals 15 or 16, then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should not equal 01.</i></b>                                                                                                                                                                                                                            |
| <b>3E11</b>     | <b><i>If PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 01, then CRITICAL EVENT - PRECRASH (EVENT) should not equal 15 or 16.</i></b>                                                                                                                                                                                                                            |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                      |
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| <b>3F00</b>     | <b><i>If CRASH TYPE equals 76-85, then CRITICAL EVENT – PRECRASH (EVENT) must not equal 60-64.</i></b>                                                                                                                                                                                                    |
| 3H0F            | If DRIVER PRESENCE equals 1, then there must be one and only one Person Level form for that vehicle with PERSON TYPE equal to 01, or there must be no Person Level form for that vehicle with PERSON TYPE equal to 01, and at least two Person Level forms for that vehicle with PERSON TYPE equal to 09. |
| 3I2P            | If DRIVER'S LICENSE STATE equals 98, 99, then all driver history counters must equal 99.                                                                                                                                                                                                                  |
| 3J0P            | If all counters equal 00, then DATE OF <b>MOST RECENT</b> CRASH, SUSPENSION, CONVICTION must equal 000000.                                                                                                                                                                                                |
| 3J1P            | If all counters equal 00, then DATE OF <b>OLDEST</b> CRASH, SUSPENSION, CONVICTION must equal 000000.                                                                                                                                                                                                     |
| 3K0P            | If DATE OF <b>MOST RECENT</b> CRASH [Year], SUSPENSION, CONVICTION is not equal to 9999 and DATE OF <b>MOST RECENT</b> CRASH [Month], SUSPENSION, CONVICTION is not equal to 99; then DATE OF <b>MOST RECENT</b> CRASH, SUSPENSION, CONVICTION must be less than or equal to CRASH DATE.                  |
| 3M0F            | If PERSON TYPE equals 01, then RESTRAINT SYSTEM USE Subfield 1 Type of Restraint System in Use must not equal 04, 10-12.                                                                                                                                                                                  |
| 3P0F            | If PERSON TYPE equals 03-07, 10, <b>11, 12, 13, or</b> 19, then INJURY SEVERITY should not equal 6.                                                                                                                                                                                                       |
| 3Q0F            | <b><i>If SEATING POSITION equals 50 (Sleeper Section of Cab [Truck]), then vPIC BODY CLASS should equal 011 (Truck) or 066 (Truck-Tractor), or FINAL STAGE BODY CLASS should equal 011 (Truck) or 066 (Truck-Tractor), and POWER UNIT GVWR_FROM and POWER UNIT GVWR_To should equal 13-18.</i></b>        |
| 3R0P            | If AIR BAG DEPLOYED does not equal 20, 98, or 99, then SEATING POSITION should not equal 12, 22, 32, 41-56.                                                                                                                                                                                               |
| 3S0P            | If SEATING POSITION equals 55, 56, then EJECTION must equal 8.                                                                                                                                                                                                                                            |
| 3U1P            | If DEATH DATE equals CRASH DATE, and CRASH HOUR is not equal to 99, then DEATH HOUR must not be less than CRASH HOUR.                                                                                                                                                                                     |
| 3U2P            | If DEATH DATE equals CRASH DATE, and DEATH HOUR equals CRASH HOUR and CRASH MINUTE is not equal to 99, then DEATH MINUTE must not be less than CRASH MINUTE.                                                                                                                                              |

#### 4 Series

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                                         |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 40IP            | If TRAVEL SPEED is equal to 000, then ATTEMPTED AVOIDANCE MANEUVER should equal <b>00 or 01</b> .                                                                                                                                                                                                                            |
| 41IP            | If TRAVEL SPEED is equal to 000, then DRIVER MANEUVERED TO AVOID should equal <b>00 or 95</b> .                                                                                                                                                                                                                              |
| 420P            | If MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 07, 08, then there must be at least two vehicle forms with AREAS OF IMPACT-INITIAL CONTACT POINT equal to 01-05, 07-11, 61-63, 81-83, 98, 99.                                                                                                                       |
| 421P            | If MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 01, then AREAS OF IMPACT-INITIAL CONTACT POINT for one vehicle in the first harmful event must equal 12, and AREAS OF IMPACT- INITIAL CONTACT POINT for the other vehicle in the first harmful event must equal 06.                                                 |
| 422P            | If MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 02, then AREAS OF IMPACT-INITIAL CONTACT POINT for one vehicle in the first harmful event must equal 12, and AREAS OF IMPACT- INITIAL CONTACT POINT for the other vehicle in the first harmful event must equal 12.                                                 |
| 423P            | If MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 06, then AREAS OF IMPACT-INITIAL CONTACT POINT for one vehicle in the first harmful event must equal 01, 11, 12, 98, 99, and AREAS OF IMPACT- INITIAL CONTACT POINT for the other vehicle in the first harmful event must equal 01-05, 07-11, 61-63, 81-83, 98, 99. |
| 424P            | If MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 09, then AREAS OF IMPACT- CONTACT POINT for one vehicle in the first harmful event must equal 06, and AREAS OF IMPACT- INITIAL CONTACT POINT for the other vehicle in the first harmful event must equal 01-05, 07-11, 61-63, 98, 99.                               |
| 425P            | If MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 10, then AREAS OF IMPACT-INITIAL CONTACT POINT for one vehicle in the first harmful event must equal 06, and AREAS OF IMPACT- INITIAL CONTACT POINT for the other vehicle in the first harmful event must equal 06, 98, 99.                                         |
| 426P            | If MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 02, then CRASH TYPE must not equal 64-67 for the vehicles involved in the FIRST HARMFUL EVENT.                                                                                                                                                                      |
| 427P            | If MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 06, then CRASH TYPE must not equal 20-43 or 50-53 for the vehicles involved in the FIRST HARMFUL EVENT.                                                                                                                                                             |
| 428P            | If CRASH TYPE equals 20-91, then NUMBER OF VEHICLE FORMS SUBMITTED must be greater than 001.                                                                                                                                                                                                                                 |
| 429P            | If NUMBER OF VEHICLE FORMS SUBMITTED equals 001, then CRASH TYPE must equal 00, 01-16, 92, 98, 99.                                                                                                                                                                                                                           |
| 42AP            | If NUMBER OF MOTOR VEHICLES FORMS SUBMITTED equals 001, and RELATION TO TRAFFICWAY equals 02, 04, 06-08, 12, and ATTEMPTED AVOIDANCE MANEUVER equals 00 or 01, then CRITICAL EVENT - PRECRASH (EVENT) should equal 01-06, 08-14 or 19.                                                                                       |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 42BP            | If there is only one vehicle involved in the First Harmful Event where UNIT TYPE equals 1, then the number of vehicles where CRASH TYPE is coded 00, 1-16, 92, 93 or 99 (excluding from the vehicles being counted, those where CRASH TYPE equals 98) must not equal 0 or be greater than 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 42CP            | If there are two vehicles involved in the FIRST HARMFUL EVENT, then those two vehicles' CRASH TYPES must belong to the same CRASH TYPE Configuration.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>42IP</b>     | <b><i>If TRAVEL SPEED equals 000, then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 00, 05, 07, 17, 98, or 99.</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 431P            | If NUMBER OF VEHICLE FORMS SUBMITTED equals 002 and UNDERRIDE/OVERRIDE equals 1-8, 9 for one vehicle, then UNDERRIDE/OVERRIDE for the other vehicle must equal 0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 432P            | If NUMBER OF VEHICLE FORMS SUBMITTED equals 001, then UNDERRIDE/OVERRIDE must equal 0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 440F            | If FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 01, then there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 01-03, 09-11, 13, 16, 23, 98 or 99.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 440P            | If VEHICLE UNDERRIDE/OVERRIDE equals 7, <b><i>then VEHICLE SEQUENCE OF EVENTS must not equal 12, 14, 45, or 55, or CRASH EVENTS equals 12, 14, 45, or 55 for that vehicle, AND the vPIC BODY CLASS for at least one of the corresponding vehicles (THIS VEHICLE or OTHER VEHICLE) in that row equals 006 (Motorcycle – Standard), 012 (Motorcycle – Scooter), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring / Sport Touring ), 082 (Motorcycle - Cruiser ), 083 (Motorcycle – Trike), 084 (Off-road Vehicle - Dirt Bike / Off-Road), 085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road), 086 (Off-road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small / Minibike), 088 (Off-road Vehicle - Go Kart), 090 (Motorcycle - Side Car), 094 (Motorcycle – Custom), 097 (Off-road Vehicle – Snowmobile), 098 (Motorcycle – Street), 104 (Motorcycle – Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle – Underbone), 113 (Off-road Vehicle - Motocross (Off-road short distance, closed track racing)), 114 (Motorcycle – Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle).</i></b> |
| 450F            | If FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 07, then there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 14.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 460F            | If FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 02, then there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 02, 20.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 470F            | If FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 03, 08, 10, 12, then there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 20, 22, 28, 98, 99.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 480F            | If FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 04, 06, then there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 09, 16, 20, 21, 24, 25, 28, 98, 99.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 490F            | If FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 05, then there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 24, 25.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4A0F            | If FIRST HARMFUL EVENT is 08, 09, 15, or 49 and RELATION TO TRAFFICWAY is 12, then at least one NON-MOTORIST LOCATION AT TIME OF CRASH must equal 22 or 28.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 4A0P            | If <b>vPIC BODY CLASS</b> equals 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 097 (Off-road Vehicle - Snowmobile), 098 (Motorcycle - Street), 100 (Motorcycle - Enclosed Three Wheeled / Enclosed Autocycle), 103 (Motorcycle - Unenclosed Three Wheeled / Open Autocycle), 104 (Moped), 105 (Off-road Vehicle - Recreational Off-Road Vehicle (ROV)), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 124 (Off-road Vehicle - Golf Cart), 125 (Motorcycle - Unknown Body Type), 126 (Off-road Vehicle - Farm Equipment), 127 (Off-road Vehicle - Construction Equipment), or 996 (Motorized Bicycle), then SPECIAL USE must not equal 01-03, 06, 07, 12, or 20-24. |
| 4D0P            | If SPECIAL USE equals 03, <b>then vPIC BODY CLASS must equal 009 (Van), 016 (Bus), 068 (Streetcar / Trolley), 073 (Bus-School Bus), or 117 (Limousine), or FINAL STAGE BODY CLASS must equal 009 (Van), 016 (Bus), 068 (Streetcar / Trolley), 073 (Bus-School Bus), or 117 (Limousine).</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 4E1P            | If VEHICLE TRAILING equals 4, then TRAILER VEHICLE IDENTIFICATION NUMBER must not equal 7s for any of the three sets.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 4F3P            | If NUMBER OF OCCUPANTS is 01-98, and <b>vPIC BODY CLASS</b> equals <b>117 (Limousine)</b> , then NUMBER OF OCCUPANTS <b>should</b> not be greater than <b>16</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 4G0P            | A RELATED FACTORS-VEHICLE LEVEL between 030 and 045 can be used only once per vehicle form.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 4H0F            | If DRIVER PRESENCE equals 0, 9, then there must not be a Person Level form for that vehicle with PERSON TYPE equal to 01.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 4H1P            | If DRIVER HEIGHT/INCHES is less than 12, then DRIVER HEIGHT/FEET must not be blank nor equal to 0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 4H2P            | If DRIVER HEIGHT/INCHES is greater than 11, then DRIVER HEIGHT/FEET must equal 0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 4H3P            | If DRIVER HEIGHT/FEET is 2-8, then DRIVER HEIGHT/ INCHES must equal 00-11.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 4H4P            | If DRIVER HEIGHT/FEET equals 9, then DRIVER HEIGHT/ INCHES must equal 99.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 4H5P            | If DRIVER HEIGHT/INCHES equals 99, then DRIVER HEIGHT/ FEET must equal 9.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 4H6P            | If DRIVER HEIGHT/INCHES equals 98, then DRIVER HEIGHT/FEET must equal 0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 4H7P            | If DRIVER HEIGHT/FEET is 0, then DRIVER HEIGHT/INCHES must equal 24-96, 98.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 4J0P            | If all counters are not blanks, and the sum of all counters less than 98 is equal to 1, then DATE OF <b>MOST RECENT</b> CRASH, SUSPENSION, CONVICTION must equal DATE OF <b>OLDEST</b> CRASH, SUSPENSION, CONVICTION.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 4K0P            | If Month of DATE OF <b>MOST RECENT</b> CRASH, SUSPENSION, CONVICTION equals 00, then Year (of same) must equal 0000.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                      |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4K1P            | If Year of DATE OF <b>MOST RECENT</b> CRASH, SUSPENSION, CONVICTION equals 0000, then Month (of same) must equal 00.                                                                                                                                                                                      |
| 4K2P            | If Month of DATE OF <b>OLDEST</b> CRASH, SUSPENSION, CONVICTION equals 00, then Year (of same) must equal 0000.                                                                                                                                                                                           |
| 4K3P            | If Year of DATE OF <b>OLDEST</b> CRASH, SUSPENSION, CONVICTION equals 0000, then Month (of same) must equal 00.                                                                                                                                                                                           |
| 4L0P            | If any RELATED FACTORS-DRIVER LEVEL equals 039 for this vehicle, then TRAFFIC CONTROL DEVICE should not equal 00 for this vehicle.                                                                                                                                                                        |
| 4N1P            | If VEHICLE CONFIGURATION does not equal 00, then MOTOR CARRIER IDENTIFICATION NUMBER must not equal 00-000000000.                                                                                                                                                                                         |
| 4N2P            | If MOTOR CARRIER IDENTIFICATION NUMBER equals 00-000000000, then VEHICLE CONFIGURATION must equal 00.                                                                                                                                                                                                     |
| 4N3P            | If MOTOR CARRIER IDENTIFICATION NUMBER (Identification Number) equals 000000000, then MOTOR CARRIER IDENTIFICATION NUMBER (Issuing Authority) must equal 00.                                                                                                                                              |
| 4N4P            | If MOTOR CARRIER IDENTIFICATION NUMBER does not equal 00-000000000 or 99-999999999, then <b>POWER UNIT GVWR_From and POWER UNIT GVWR_To must equal 13-18, or VEHICLE TRAILING must equal 1-6, or CARGO BODY TYPE must equal 22, or HM2 must equal 2.</b>                                                  |
| 4N5P            | If <b>POWER UNIT GVWR_From and POWER UNIT GVWR_To do not equal 13-18, and VEHICLE TRAILING does not equal 1-6, and CARGO BODY TYPE does not equal 22, and HM2 does not equal 2</b> , then MOTOR CARRIER IDENTIFICATION NUMBER must equal 00-000000000, 99-999999999.                                      |
| 4N7P            | If MOTOR CARRIER IDENTIFICATION NUMBER (Identification Number) equals 888888888 or 777777777 or 999999999, then MOTOR CARRIER IDENTIFICATION NUMBER (Issuing Authority) should be filled respectively as 88 or 77 or 99.                                                                                  |
| 4N8P            | <b>If any one of the fields MOTOR CARRIER IDENTIFICATION NUMBER, VEHICLE CONFIGURATION, and CARGO BODY TYPE equals Unknown [MOTOR CARRIER IDENTIFICATION NUMBER (99-999999999), VEHICLE CONFIGURATION (99), CARGO BODY TYPE (99)], then the other two should also equal Unknown and HM1 must equal 1.</b> |
| 4NAP            | If MOTOR CARRIER IDENTIFICATION NUMBER (Issuing Authority) equals 01-58, 95, 96, then MOTOR CARRIER IDENTIFICATION NUMBER (Identification Number) should not equal 888888888, 777777777, 999999997, 999999999.                                                                                            |
| 4NBP            | If MOTOR CARRIER IDENTIFICATION NUMBER (Issuing Authority) 01-58, 95, 96, then MOTOR CARRIER IDENTIFICATION NUMBER (Identification Number) must not equal 000000000.                                                                                                                                      |
| 4NCP            | If MOTOR CARRIER IDENTIFICATION NUMBER (Issuing Authority) is 00 or 77 or 88 or 99, then MOTOR CARRIER IDENTIFICATION NUMBER (Identification Number) must be filled respectively as 000000000 or 777777777 or 888888888 or 999999999.                                                                     |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| 4Q0F            | If PERSON TYPE equals 02, and vPIC BODY CLASS equals 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport/Adventure/Supermoto/On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 90 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 100 (Motorcycle - Enclosed Three Wheeled / Enclosed Autocycle), 103 (Motorcycle - Unenclosed Three Wheeled / Open Autocycle), 104 (Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle), then SEATING POSITION should equal 13, 21, 54, 55, or 56.                                                             |
| 4R0P            | If SEATING POSITION equals 54, then VEHICLE TRAILING must not equal 0 or 9.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 4S0P            | If vPIC BODY CLASS equals 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport/Adventure/Supermoto/On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 104 (Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle), then EJECTION must equal 8.                                                                                                                                                                                                                                                   |
| 4S1P            | If vPIC BODY CLASS does equal 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport/Adventure/Supermoto/On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 100 (Motorcycle - Enclosed Three Wheeled / Enclosed Autocycle), 103 (Motorcycle - Unenclosed Three Wheeled / Open Autocycle), 104 (Moped), 105 (Off-road Vehicle - Recreational Off-Road Vehicle (ROV)), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle), and HM1 does not equal 1, then COMPLIANCE WITH CDL ENDORSEMENTS MUST equal 0. |
| 4U0F            | Each original submission must have at least one Person Level form with INJURY SEVERITY coded 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 4U2F            | At least one INJURY SEVERITY should equal 1, 2, 3, 4, 5, or 9, or at least one EXTENT OF DAMAGE should equal 2, 4, 6, 8, or 9.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 4V1F            | If INJURY SEVERITY equals 4, then DEATH DATE and DEATH TIME for this person must be within 720 hours of the CRASH DATE and CRASH TIME.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 4V2F            | If CRASH MONTH equals 12, and DEATH MONTH equals 01, then DEATH YEAR must equal CRASH YEAR plus 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 4V3F            | If CRASH MONTH equals 12, then DEATH MONTH must equal 01, 12, 88, 99.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |



| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                  |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4V4F            | If CRASH MONTH equals 02-11, and DEATH MONTH is not equal to 88 or 99, then DEATH MONTH must equal CRASH MONTH or CRASH MONTH plus 1.                                                 |
| 4V5F            | If CRASH MONTH equals 01, and DEATH MONTH is not equal to 88, or 99, then DEATH MONTH must equal CRASH MONTH or CRASH MONTH plus 1 or CRASH MONTH plus 2.                             |
| 4V6P            | If DEATH MONTH is not equal to blanks, then DEATH DAY and DEATH YEAR must not equal blanks.                                                                                           |
| 4V7P            | If DEATH DAY is not equal to blanks, then DEATH MONTH and DEATH YEAR must not equal blanks.                                                                                           |
| 4V8P            | If DEATH YEAR is not equal to blanks, then DEATH MONTH and DEATH DAY must not equal blanks.                                                                                           |
| 4W0P            | <b>Any</b> RELATED FACTORS-PERSON (MV Occupant) LEVEL can be used only once per person form.                                                                                          |
| 4W1P            | <b>Any</b> RELATED FACTORS-PERSON (NOT A MV OCCUPANT) LEVEL can be used only once per person form.                                                                                    |
| 4W2P            | If RELATED FACTORS - PERSON (NOT A MV OCCUPANT) LEVEL equals 093, then NON-MOTORIST SAFETY EQUIPMENT Subfield 1 Non-Motorist Helmet Use must equal 2.                                 |
| 4W3P            | If RELATED FACTORS - PERSON (NOT A MOTOR VEHICLE OCCUPANT) LEVEL equals 091, then NON-MOTORIST DISTRACTED BY should equal 05, 06, 07, 08, or 15.                                      |
| 4W4P            | If RELATED FACTORS-PERSON LEVEL (Not a MV Occupant) equals 053, 054, 055, and PERSON TYPE does not equal 05, then at least one NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must equal 18. |
| 4W5P            | If RELATED FACTORS-PERSON LEVEL (Not a MV Occupant) equals 053, 054, 055, and PERSON TYPE equals 05, then at least one NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must equal 21.         |
| 4W6P            | If any RELATED FACTORS-PERSON LEVEL (MV Occupant) equals 021 or 089, then PERSON TYPE must equal 3, SEATING POSITION must equal 11, and UNIT TYPE must equal 2, 3, or 4.              |
| 4X0A            | If NON-MOTORIST DISTRACTED BY equals 05, 06, 07, 08, or 15, then at least one RELATED FACTORS - PERSON (NOT A MOTOR VEHICLE OCCUPANT) LEVEL must equal 091.                           |
| 4X1A            | If any NON-MOTORIST DISTRACTED BY equals 00, 17, 18, 19, 92, 93, 96, or 99, then only that one code and no other must be used.                                                        |
| 4X2A            | If NON-MOTORIST CONTRIBUTING CIRCUMSTANCES equals 19, then NON-MOTORIST SAFETY EQUIPMENT Subfield 4-Non-Motorist Use of Reflective Clothing/Carried Item should not equal 2.          |
| 4X2B            | If NON-MOTORIST CONTRIBUTING CIRCUMSTANCES equals 19, then NON-MOTORIST SAFETY EQUIPMENT Subfield 5- Non-Motorist Use of Lighting should not equal 2.                                 |
| 4X2C            | If any NON-MOTORIST CONTRIBUTING CIRCUMSTANCES equals 06, then NON-MOTORIST DISTRACTED BY must not equal 00 or 96 or 99.                                                              |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                              |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4X2F            | If any CONDITION (IMPAIRMENT) AT TIME OF CRASH (D23) equals 00 or 98 or 99, then only that one code and no other must be coded for this driver.                                                                                   |
| 4X2G            | If any NON-MOTORIST ACTION/CIRCUMSTANCES equals 08, then the NON-MOTORIST ACTION/CIRCUMSTANCES must not also equal 03 for this person.                                                                                            |
| 4X3A            | If NON-MOTORIST CONTRIBUTING CIRCUMSTANCES equals 11, then PERSON TYPE must equal 05.                                                                                                                                             |
| 4X3F            | If any CONDITION (IMPAIRMENT) AT TIME OF CRASH equals 00 or 98 or 99, then only that one code and no other must be coded for this person.                                                                                         |
| <b>4X3G</b>     | <b><i>If any NON-MOTORIST ACTIONS CIRCUMSTANCES equals 03, then NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must not equal 04 for this Person (Not a Motor Vehicle Occupant).</i></b>                                                 |
| 4X4A            | If any NON-MOTORIST DISTRACTED BY equals 00, 96, or 99, then none of the NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must equal 06.                                                                                                   |
| 4X4F            | If any CONDITION (IMPAIRMENT) AT TIME OF CRASH (D23) equals 09, then POLICE REPORTED ALCOHOL INVOLVEMENT (P16) or POLICE REPORTED DRUG INVOLVEMENT (P19) should equal 1 for this person.                                          |
| 4X5A            | If NON-MOTORIST DISTRACTED BY does not equal 00, 96, or 99, then at least one NON-MOTORIST CONTRIBUTING CIRCUMSTANCES should equal 06.                                                                                            |
| 4X5F            | If NON-MOTORIST ACTION/CIRCUMSTANCES <b><i>equals 04 and does not also equal 03</i></b> , then NON-MOTORIST ACTION/CIRCUMSTANCES <b><i>should also equal 05 or 06 or 16</i></b> .                                                 |
| <b>4X6A</b>     | <b><i>If NON-MOTORIST DISTRACTED BY equals 17, then STATE should equal GA, MN, MO, NV, NY, or SC.</i></b>                                                                                                                         |
| 4X6F            | If any CONDITION (IMPAIRMENT) AT TIME OF CRASH equals 09, then POLICE REPORTED ALCOHOL INVOLVEMENT or POLICE REPORTED DRUG INVOLVEMENT should equal 1 for this person.                                                            |
| 4X7F            | If any NON-MOTORIST ACTION/CIRCUMSTANCES equals 98 or 99, then only that one code and no other must be coded for this person.                                                                                                     |
| 4X8F            | If any NON-MOTORIST CONTRIBUTING CIRCUMSTANCES equals 00 or 99, then only that one code and no other must be coded for this person.                                                                                               |
| 4X8G            | NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must not equal 01 and 11 for the same person.                                                                                                                                             |
| 4X8H            | If any NON-MOTORIST CONTRIBUTING CIRCUMSTANCES equals 01, then DRIVER'S VISION OBSCURED BY must not equal 00, 95, or 99 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST. |
| 4Z0P            | If SEQUENCE OF EVENTS equals 02, then FIRE OCCURRENCE for this vehicle must equal 1.                                                                                                                                              |
| 4Z1P            | If UNIT TYPE equals 1 and FIRE OCCURRENCE equals 1, then at least one SEQUENCE OF EVENTS must equal 02.                                                                                                                           |
| 4Z2P            | If UNIT TYPE equals 4, then there must be at least one record in CRASH EVENTS TABLE with SEQUENCE OF EVENT equal to 45 for that vehicle VEHICLE NUMBER (OTHER VEHICLE).                                                           |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                         |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4Z3P            | If UNIT TYPE equals 2 or 3, then there must be at least one record in CRASH EVENTS TABLE with SEQUENCE OF EVENT equal to 14 for that vehicle VEHICLE NUMBER (OTHER VEHICLE). |

## 5 Series

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                             |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 500F            | If FIRST HARMFUL EVENT equals 01-11, 14-21, 23-26, 30-35, 44-53, 57-59, 72, 73, or 98 then MANNER OF COLLISION OF THE FIRST HARMFUL EVENT must not equal 01, 02, 06-11, 98, 99.                                                                                  |
| 510F            | If FIRST HARMFUL EVENT equals 12, 54, 55, then MANNER OF COLLISION OF THE FIRST HARMFUL EVENT must not equal 00.                                                                                                                                                 |
| 520F            | If FIRST HARMFUL EVENT equals 10, then TRAFFIC CONTROL DEVICE <b>should</b> not equal 01-04, 07-09, 20, 21, 23, 28, 29, 50, 98 for the vehicle involved in the FIRST HARMFUL EVENT.                                                                              |
| 530F            | If FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 99, then there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 09, 98, 99.                                           |
| 531F            | If FIRST HARMFUL EVENT equals 08, 09, 15, and RELATION TO TRAFFICWAY equals 11, then there must be at least one Person Level (Not a MV Occupant) form with NON-MOTORIST LOCATION AT TIME OF CRASH equal to 11.                                                   |
| <b>532F</b>     | <b><i>If FIRST HARMFUL EVENT equals 14, and RELATION TO TRAFFICWAY equals 07, then at least one previous CRASH EVENTS-SEQUENCE OF EVENTS should equal 63, 64, 71, or 79 for the motor vehicle in transport involved in the FIRST HARMFUL EVENT.</i></b>          |
| 540F            | If FIRST HARMFUL EVENT equals 02, then the vehicle involved in the FIRST HARMFUL EVENT must have FIRE OCCURRENCE equal to 1.                                                                                                                                     |
| 550F            | If FIRST HARMFUL EVENT equals 08, then at least one person must have PERSON TYPE equal 05, 10.                                                                                                                                                                   |
| 560F            | If FIRST HARMFUL EVENT equals 09, then at least one person must have PERSON TYPE equal to 06, 07.                                                                                                                                                                |
| 570F            | If FIRST HARMFUL EVENT equals 05, 06, then at least one PERSON TYPE equal to 01-03, 09 must have INJURY SEVERITY equal to 1-5, or blank.                                                                                                                         |
| 580F            | If FIRST HARMFUL EVENT equals 14, and RELATED FACTORS - PERSON (MV OCCUPANT) LEVEL does not equal 032, 089 for at least one occupant in the not in-transport motor vehicle involved in the FIRST HARMFUL EVENT, then RELATION TO TRAFFICWAY should not equal 01. |
| 590F            | If FIRST HARMFUL EVENT equals 15, then at least one Person Level form must have a PERSON TYPE code of <b>11, 12, or 13</b> .                                                                                                                                     |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5A0P            | If <b>vPIC BODY CLASS</b> equals 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 104 (Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle), and any RELATED FACTORS - VEHICLE LEVEL does not equal 030, then ROLLOVER must equal 0. |
| 5AAP            | The Final STRATUM should equal the Original STRATUM.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 5B0Q            | If JACKKNIFE equals 0, then VEHICLE TRAILING must equal 0, 5, 6, or 9.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 5D0P            | If SPECIAL USE equals 04, then <b>vPIC BODY CLASS</b> should equal 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 009 (Van), 011 (Truck), 016 (Bus), 060 (Pickup), 066 (Truck-Tractor), 095 (Cargo Van), 119 (Sport Utility Truck (SUT)), 997 (Other (Specify:)), or 999 (Unknown), or FINAL STAGE BODY CLASS should equal 009 (Van), 011 (Truck), 016 (Bus), 060 (Pickup), 066 (Truck-Tractor), 095 (Cargo Van), 119 (Sport Utility Truck (SUT)), 997 (Other (Specify:)), or 999 (Unknown).                                                                                                                                                                                                                                                                                                                                                  |
| 5F0F            | If NUMBER OF OCCUPANTS equals 00-98, and <b>vPIC BODY CLASS</b> does not equal 016 (Bus), 068 (Streetcar / Trolley), or 73 (Bus-School Bus), and FINAL STAGE BODY CLASS does not equal 016 (Bus), 068 (Streetcar / Trolley), or 73 (Bus-School Bus), then the number of Person Level forms for that vehicle must be equal to the NUMBER OF OCCUPANTS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 5I0P            | If NON-CDL LICENSE STATUS equals 0, then COMPLIANCE WITH LICENSE RESTRICTIONS must not equal 1-3, 9.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 5I1P            | If NON-CDL LICENSE STATUS for this person equals 9, then COMMERCIAL MOTOR VEHICLE LICENSE STATUS should equal 99.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 5J0P            | If the sum of all counters less than 98 is greater than fifteen, then DATE OF <b>MOST RECENT</b> CRASH, SUSPENSION, CONVICTION must not equal DATE OF <b>OLDEST</b> CRASH, SUSPENSION, CONVICTION.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 5K0P            | The Year of DATE OF <b>OLDEST</b> CRASH, SUSPENSION, CONVICTION must be within five years of the Year of CRASH DATE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 5L0F            | If RELATED FACTORS-DRIVER LEVEL equals 020, then DRIVER PRESENCE must not equal 1, 9.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>5L0P</b>     | <b>If any RELATED FACTORS-DRIVER LEVEL equals 010, then DRIVER DISTRACTED BY must equal 00.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 5L1F            | If RELATED FACTORS-DRIVER LEVEL equals 004, 008, 010, 012, 013, 015, 016, 019, 052, 053, 058, 059, 073, 074, 077-088, 094-097, then DRIVER PRESENCE must not equal 0 or 9.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 5M0F            | If PERSON TYPE equals 01, then RELATED FACTORS-PERSON LEVEL (MV Occupant) must equal 000.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 5M0G            | If SPECIAL USE equals 06, and PERSON TYPE equals 02 or 09, then RELATED FACTORS - PERSON (MV OCCUPANT) LEVEL should equal 092, 094, or 095.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 5M1G            | If SPECIAL USE equals 21 and PERSON TYPE equals 01, then SEATING POSITION should equal 13.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5M2G            | <i>If SPECIAL USE equals 06, and PERSON TYPE equals 02, and SEATING POSITION equals 51, then at least one RELATED FACTORS - PERSON LEVEL should equal 092 or 094.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 5M3G            | <i>If SPECIAL USE equals 06, and PERSON TYPE equals 01 or 02, and SEATING POSITION equals 11-19, then at least one RELATED FACTORS - PERSON LEVEL should equal 094, or at least one RELATED FACTORS - DRIVER LEVEL should equal 094.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 5N0F            | If PERSON TYPE equals 02, then any RELATED FACTORS-PERSON LEVEL (MV Occupant) must not equal 021, 026, 028, 029, 033, 037, 040-042, 044, 045, 047, 051, 052, 057-070, 072-078, or 080-083.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 5Q0F            | If PERSON TYPE equals 02, and vPIC BODY CLASS equals 016 (Bus), 068 (Streetcar / Trolley), or 73 (Bus-School Bus), or FINAL STAGE BODY CLASS equals 016 (Bus), 068 (Streetcar / Trolley), or 73 (Bus-School Bus), then SEATING POSITION must equal 12-18, 51, 52, 54, 55, 56, 98, or 99.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 5S0P            | If vPIC BODY CLASS equals 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport/Adventure/Supermoto/On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 104 (Motorcycle - Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle), then EXTRICATION must equal 0. |
| 5T7P            | If ALCOHOL TEST STATUS equals 0, then ALCOHOL TEST TYPE must equal 00, and ALCOHOL TEST RESULT must equal 996.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 5T8P            | If ALCOHOL TEST STATUS equals 9, then ALCOHOL TEST TYPE and ALCOHOL TEST RESULT must equal 999.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 5T9P            | If ALCOHOL TEST STATUS equals 2, then ALCOHOL TEST TYPE must equal 01-11, 95, 98, and ALCOHOL TEST RESULT must equal 000-940, 997, 998.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 5TCP            | If ALCOHOL TEST STATUS equals 8, then ALCOHOL TEST TYPE must equal 95 and ALCOHOL TEST RESULT must equal 995.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 5W0P            | If RELATED FACTORS-PERSON LEVEL equals 018, then SEX must equal 2, and AGE must be greater than 012.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 5Y0F            | If FIRST HARMFUL EVENT equals 08, 09, 15, then NUMBER OF FORMS SUBMITTED FOR PERSONS NOT IN MOTOR VEHICLES must not equal 00.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 5Z0F            | If SEQUENCE OF EVENTS equals 08, then at least one person must have PERSON TYPE equal to 05, 10.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

## 6 Series

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 610P            | If TRAFFIC CONTROL DEVICE equals 00, then DEVICE FUNCTIONING must equal 0.                                                                                                                                                                                                                                                                                                                                                                                              |
| 622P            | If HIT-AND-RUN equals 1, then it is unlikely that NUMBER OF OCCUPANTS equals 0-98.                                                                                                                                                                                                                                                                                                                                                                                      |
| 640F            | If TRAFFIC CONTROL DEVICE equals 23 for any vehicle, then RELATED FACTORS-CRASH LEVEL should equal 021.                                                                                                                                                                                                                                                                                                                                                                 |
| 641F            | If RELATED FACTORS-CRASH LEVEL equals 021, then TRAFFIC CONTROL DEVICE should not equal 00 for every vehicle.                                                                                                                                                                                                                                                                                                                                                           |
| 642F            | If TRAFFIC CONTROL DEVICE equals 00 for every vehicle, then RELATED FACTORS-CRASH LEVEL should not equal 021.                                                                                                                                                                                                                                                                                                                                                           |
| 650P            | If TRAFFIC CONTROL DEVICE equals 65 for any vehicle, then RAIL GRADE CROSSING IDENTIFIER must not equal 0000000.                                                                                                                                                                                                                                                                                                                                                        |
| 651P            | RAIL GRADE CROSSING IDENTIFIER must equal BLANKS, 0000000, 9999999, or nnnnnnA; where n is a numeric character and A is an uppercase alphabetic character.                                                                                                                                                                                                                                                                                                              |
| 660P            | If TRAFFIC CONTROL DEVICE is not equal to 00, then DEVICE FUNCTIONING must not equal 0.                                                                                                                                                                                                                                                                                                                                                                                 |
| 660Q            | If TRAFFIC CONTROL DEVICE does not equal 97, then it is unlikely that DEVICE FUNCTIONING equals 8.                                                                                                                                                                                                                                                                                                                                                                      |
| 661P            | If TRAFFIC CONTROL DEVICE equals 97, then DEVICE FUNCTIONING must equal 8.                                                                                                                                                                                                                                                                                                                                                                                              |
| 662P            | If TRAFFIC CONTROL DEVICE is not equal to 00 and CRASH TYPE is 14, then at least one RELATED FACTORS - DRIVER LEVEL should equal 039.                                                                                                                                                                                                                                                                                                                                   |
| 670F            | If FIRST HARMFUL EVENT equals 12, 14, 45, 54, 55, then NUMBER OF VEHICLE FORMS SUBMITTED must be greater than 001.                                                                                                                                                                                                                                                                                                                                                      |
| 671F            | If the only harmful event in SEQUENCE OF EVENTS for this vehicle equals 02 or 04, then CRITICAL EVENT - PRECRASH (EVENT) must equal 98.                                                                                                                                                                                                                                                                                                                                 |
| 6A1P            | If UNDERRIDE/OVERRIDE equals 1-8, then NCSA BODY TYPE must not equal 80-84, 88-91.                                                                                                                                                                                                                                                                                                                                                                                      |
| 6D0P            | If SPECIAL USE equals 05, then <b>vPIC BODY CLASS should equal 006 (Motorcycle - Standard), 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 008 (Crossover Utility Vehicle (CUV)), 009 (Van), 013 (Sedan/Saloon), 015 (Wagon), 060 (Pickup), 081 (Motorcycle - Touring / Sport Touring), 082 (Motorcycle - Cruiser), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 119 (Sport Utility Truck (SUT)), or 125 (Motorcycle - Unknown Body Type).</b> |
| 6G0P            | If RELATED FACTORS-VEHICLE LEVEL equals 032, then REGISTRATION STATE must not equal 00, 92.                                                                                                                                                                                                                                                                                                                                                                             |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6G0Q            | If any RELATED FACTORS - VEHICLE LEVEL equals 030, then <b>vPIC BODY CLASS</b> must equal <b>006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 104 (Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle)</b> for this vehicle. |
| 6H0P            | If DRIVER PRESENCE equals 0, 9, then DRIVER'S ZIP CODE must be blank.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 6H1P            | If DRIVER PRESENCE equals 0, 9, then CONDITION (IMPAIRMENT) AT TIME OF CRASH (D23) must be blank.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 6I0P            | If NON-CDL LICENSE STATUS equals 9, and COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 00, then COMPLIANCE WITH LICENSE RESTRICTIONS must not equal 1-3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 6K0P            | If VIOLATION CHARGED equals 71, then RELATED FACTORS-DRIVER LEVEL must not equal 019.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 6L0P            | If COMPLIANCE WITH LICENSE RESTRICTIONS equals 1, and RELATED FACTORS-DRIVER LEVEL equals 019, then LICENSE COMPLIANCE WITH CLASS OF VEHICLE must equal 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 6Q0F            | If PERSON TYPE equals 02 <b>or</b> 03, and <b>vPIC BODY CLASS equals 011 (Truck) or 066 (Truck-Tractor), or FINAL STAGE BODY CLASS equals 011 (Truck) or 066 (Truck-Tractor)</b> , then SEATING POSITION must not equal 31-49.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 6S0P            | If EJECTION equals 1, then EXTRICATION must not equal 1, 9.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 6V0P            | DEATH DATE must not be less than CRASH DATE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 6Z0F            | If SEQUENCE OF EVENTS equals 09, then at least one person must have PERSON TYPE equal to 06, 07.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## 7 Series

| <b>Error ID</b> | <b>Error Message</b>                                                                                         |
|-----------------|--------------------------------------------------------------------------------------------------------------|
| 740P            | If RELATION TO JUNCTION (b) equals 07, then TRAFFICWAY DESCRIPTION must equal 2, 3 for at least one vehicle. |
| 750P            | If RELATION TO JUNCTION (b) equals 07, then RAIL GRADE CROSSING IDENTIFIER must equal 0000000.               |
| 770P            | If RELATION TO TRAFFICWAY equals 07, then RELATION TO JUNCTION (b) must equal 01, 03, 08, 19, 98, 99.        |
| 772P            | If RELATION TO TRAFFICWAY equals 07, then RELATION TO JUNCTION (a) must not equal 1.                         |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                       |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| 773P            | If RELATION TO JUNCTION (b) equals 01, then RELATION TO JUNCTION (a) must equal 0.                                                         |
| 773Q            | If RELATION TO JUNCTION(b) equals 04, 06, 07, or 16, then RELATION TO JUNCTION (a) should not equal 1.                                     |
| 775P            | If RELATION TO JUNCTION (b) equals 17 or 18 or 19, then RELATION TO JUNCTION (a) must equal 1.                                             |
| 778P            | If RELATION TO JUNCTION (b) equals 01, 04-08, 16-20, then TYPE OF INTERSECTION must equal 01.                                              |
| 77AP            | If CRASH TYPE equals 14, then RELATION TO JUNCTION (b) must not equal 02.                                                                  |
| 77BP            | If CRASH TYPE equals 68-91, then RELATION TO JUNCTION (b) should not equal 01.                                                             |
| 77CP            | If CRASH TYPE equals 14, then RELATION TO JUNCTION (b) should equal 01, 03, 19.                                                            |
| 77DP            | If RELATION TO TRAFFICWAY equals 07, and RELATION TO JUNCTION (a) equals 1, then RELATION TO JUNCTION (b) should not equal 03, 08.         |
| 780P            | If RELATION TO TRAFFICWAY equals 10, then RELATION TO JUNCTION (b) must not equal 02, 04, 08.                                              |
| 781P            | If TYPE OF INTERSECTION equals 02-07, 10, <b>or 11</b> , then TRAFFICWAY IDENTIFIER (b) should not be blank.                               |
| 782P            | If TYPE OF INTERSECTION equals 02-07, 10, <b>or 11</b> , then RELATION TO JUNCTION (b) must equal 02, 03.                                  |
| 783P            | If RELATION TO JUNCTION (b) equals 98, 99, then TYPE OF INTERSECTION should equal 01, 98, 99.                                              |
| 784P            | If TYPE OF INTERSECTION equals 01, then RELATION TO JUNCTION (b) must not equal 02, 03.                                                    |
| 7B0F            | If JACKKNIFE equals 2, 3, then DRIVER PRESENCE must equal 1.                                                                               |
| 7D0P            | If SPECIAL USE equals 06, then <b>NCSA</b> BODY TYPE must equal 11, 14-17, 19, 21, 22, 28, 29, 40, 41, 45, 48, 49, 61, 62, 64, 79, 97, 99. |
| 7E0P            | If INJURY SEVERITY equals 4, then DEATH CERTIFICATE NUMBER must NOT equal 0000-00-000000.                                                  |
| 7E1P            | If INJURY SEVERITY equals 4, then RACE must not equal 00.                                                                                  |
| 7E2P            | If INJURY SEVERITY equals 4, then HISPANIC ORIGIN must not equal 00.                                                                       |
| 7E3P            | If INJURY SEVERITY is not equal to 4, then RACE must equal 00 AND HISPANIC ORIGIN must equal 00.                                           |
| 7F0P            | If DEATH CERTIFICATE NUMBER is not blank or 0000-00-000000, then INJURY SEVERITY must equal 4.                                             |
| 7F1P            | If RACE equals 00, then INJURY SEVERITY must not equal 4.                                                                                  |
| 7F2P            | If HISPANIC ORIGIN equals 00, then INJURY SEVERITY must not equal 4.                                                                       |



| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                          |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7F3P            | If RACE is not equal to 00, and HISPANIC ORIGIN is not equal to 00, then INJURY SEVERITY must equal 4.                                                                                                                                        |
| 7I0P            | If COMPLIANCE WITH LICENSE RESTRICTIONS equals 1, and RELATED FACTORS-DRIVER LEVEL equals 019, then NON-CDL LICENSE STATUS must equal 6.                                                                                                      |
| 7K0P            | If any VIOLATIONS CHARGED equals 71, then NON-CDL LICENSE STATUS must equal 0, 1, 2, or COMMERCIAL MOTOR VEHICLE LICENSE STATUS must equal 01, 02, 05.                                                                                        |
| 7K1P            | VIOLATIONS CHARGED code 99 must not be used more than once per driver.                                                                                                                                                                        |
| 7L0P            | Any RELATED FACTORS-DRIVER LEVEL can be used only once per driver form.                                                                                                                                                                       |
| 7M0F            | If any RELATED FACTORS-PERSON LEVEL (MV Occupant) equals 026, 028, 029, 033, 037, 040-042, 044, 045, 047, 051, 052, 057-070, 072-078, or 080-083, then PERSON TYPE must equal 03, SEATING POSITION must equal 11, and UNIT TYPE must equal 4. |
| 7M1F            | If PERSON TYPE equals 03, and SEATING POSITION is not equal to 11 or 13, and INJURY SEVERITY does not equal 4, then DRUG TEST STATUS must not equal 8, any DRUG SPECIMEN must not equal 96, and any DRUG TEST RESULTS must not equal 095.     |
| 7P0F            | If PERSON TYPE equals 01, then AGE must not be less than 002.                                                                                                                                                                                 |
| 7Q0F            | If PERSON TYPE equals 09, then SEATING POSITION <b>must equal 19, 98, or 99.</b>                                                                                                                                                              |
| 7R0P            | If FATAL INJURY AT WORK equals 0, 1, 9, then INJURY SEVERITY must equal 4.                                                                                                                                                                    |
| 7V0F            | If DEATH YEAR equals 9999, then CRASH MONTH must not be 01-11.                                                                                                                                                                                |
| 7W0P            | If FATAL INJURY AT WORK equals 8, then INJURY SEVERITY must not equal 4.                                                                                                                                                                      |
| 7Z0F            | If any SEQUENCE OF EVENTS equals 05, 06, then at least one occupant of this vehicle (PERSON TYPES 01, 02, 09) must have INJURY SEVERITY equal to 1-5, or blank.                                                                               |

## 8 Series

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                      |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 840P            | If any RELATED FACTORS-CRASH LEVEL equals 000 or 999, then <b>only that one code and no other must be coded.</b>                                          |
| 870P            | A RELATED FACTORS-CRASH LEVEL 001-007, 012-028 can be used only once per crash.                                                                           |
| 880F            | If RELATED FACTORS-CRASH LEVEL equals 016, then there must be a Person Level (Not a MV Occupant) form with PERSON TYPE equal to 04-07, 11, 12, 13, or 19. |
| 881P            | If RELATED FACTOR - CRASH LEVEL equals 024, then RELATION TO TRAFFICWAY must not equal 01 or 11.                                                          |
| 890F            | If RELATED FACTORS-CRASH LEVEL equals 015, then there must be a Person Level (Not a MV Occupant) form with PERSON TYPE equal to 04-07, 10-13, or 19.      |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8D0P            | If SPECIAL USE equals 08, then <b>vPIC BODY CLASS should equal 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 011 (Truck), 060 (Pickup), or 119 (Sport Utility Truck (SUT)), or FINAL STAGE BODY CLASS should equal vPIC BODY CLASS should equal 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 011 (Truck), 060 (Pickup), or 119 (Sport Utility Truck (SUT)), and POWER UNIT GVWR_FROM and POWER UNIT GVWR_TO should be in 11-12.</b> |
| 8I0P            | If NON-CDL LICENSE STATUS equals 0-4, 9, then RELATED FACTORS-DRIVER LEVEL must not equal 019.                                                                                                                                                                                                                                                                                                                                                                         |
| 8J0P            | If NON-CDL LICENSE TYPE equals 0, then NON-CDL LICENSE STATUS must equal 0.                                                                                                                                                                                                                                                                                                                                                                                            |
| 8J1P            | If NON-CDL LICENSE STATUS equals 0, then NON-CDL LICENSE TYPE must equal 0.                                                                                                                                                                                                                                                                                                                                                                                            |
| 8J2P            | If RELATED FACTORS-DRIVER LEVEL equals 073, 074, then COMPLIANCE WITH LICENSE RESTRICTIONS must equal 2.                                                                                                                                                                                                                                                                                                                                                               |
| 8K0P            | If VIOLATIONS CHARGED equals 07, 08, then HIT-AND-RUN must not equal 0.                                                                                                                                                                                                                                                                                                                                                                                                |
| 8L0P            | If LICENSE COMPLIANCE WITH CLASS OF VEHICLE equals 0-2, 9, then RELATED FACTORS-DRIVER LEVEL must not equal 019.                                                                                                                                                                                                                                                                                                                                                       |
| 8L8Q            | If AREAS OF IMPACT (THIS VEHICLE) equals 18, 19, or 20 in the CRASH EVENTS, then the corresponding event in that row must not equal 12 or 55.                                                                                                                                                                                                                                                                                                                          |
| 8L8R            | If the CRASH EVENTS event equals 54, then AREAS OF IMPACT (THIS VEHICLE) must equal 18, 19, or 20 in that row.                                                                                                                                                                                                                                                                                                                                                         |
| 8L8S            | If AREAS OF IMPACT (THIS VEHICLE) equals 18, 19, or 20 in the CRASH EVENTS and the corresponding event in that row equals 14, 45 or 54, then RELATED FACTORS-CRASH LEVEL must equal 014.                                                                                                                                                                                                                                                                               |
| 8L8T            | If RELATED FACTORS-CRASH LEVEL equals 014, then there must exist at least one event in the CRASH EVENTS where AREAS OF IMPACT (THIS VEHICLE or OTHER VEHICLE) equals 18, 19, or 20 and the corresponding event in that row equals 14, 45 or 54.                                                                                                                                                                                                                        |
| 8L8U            | If AREAS OF IMPACT (THIS VEHICLE) equals 18, 19, or 20 in the CRASH EVENTS and the corresponding event in that row equals 08, 09, 15, 49, then RELATED FACTORS-CRASH LEVEL must equal 015.                                                                                                                                                                                                                                                                             |
| 8L8V            | If RELATED FACTORS-CRASH LEVEL equals 015, then there must exist at least one event in the CRASH EVENTS where AREAS OF IMPACT (THIS VEHICLE) equals 18, 19, or 20, and the corresponding event in that row equals 08-10, 15, 18, 49, or 91.                                                                                                                                                                                                                            |
| 8L8W            | If SEQUENCE OF EVENTS is not equal to 45, then AREAS OF IMPACT (OTHER VEHICLE) should not equal 18 or 19.                                                                                                                                                                                                                                                                                                                                                              |
| 8L8X            | If AREAS OF IMPACT (THIS VEHICLE) equals 18, then there should be a previous event involving that vehicle where the CRASH EVENTS event equals 60, 61, 62, or 72.                                                                                                                                                                                                                                                                                                       |
| 8L8Y            | If SEQUENCE OF EVENTS is equal to 45 (Working Motor Vehicle), then AREAS OF IMPACT (THIS VEHICLE) and AREAS OF IMPACT (OTHER VEHICLE) should not both equal 18 or 19 in that same event row.                                                                                                                                                                                                                                                                           |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8L9P            | If <b>vPIC BODY CLASS</b> does not equal <b>006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring / Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 Off-road Vehicle - Dirt Bike / Off-Road), 085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road), 086 (Off-road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small / Minibike), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 097 (Off-road Vehicle - Snowmobile), 098 (Motorcycle - Street), 104 (Motorcycle - Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motocross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle)</b> , and the CRASH EVENTS event equals 54, and the corresponding AREAS OF IMPACT (THIS VEHICLE) equals 19 or 20 in that row, then there should be a previous event with CRASH EVENTS event equal to 18, 73, 91, or 98 involving that vehicle. |
| 8M0F            | If PERSON TYPE equals 04, then RELATED FACTORS-PERSON LEVEL (NOT A MV OCCUPANT) must not equal <b>013, 053, 054, 055, 090, 094-097, or 101</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 8P0P            | If PERSON TYPE equals 01, and AGE is less than 008, then <b>vPIC BODY CLASS</b> must equal <b>4 (Low Speed Vehicle (LSV) / Neighborhood Electric Vehicle (NEV)), 12 (Motorcycle - Scooter), 87 (Motorcycle - Small / Minibike), 88 (Off-road Vehicle - Go Kart), 97 (Off-road Vehicle - Snowmobile), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)) and 105 (Off-road Vehicle - Recreational Off-Road Vehicle (ROV)) , 124 (Off-road Vehicle - Golf Cart), 125 (Motorcycle - Unknown Body Type), 997 (Other), 998 (Not Reported), or 999 (Unknown)</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 8Q0F            | If PERSON TYPE equals <b>11, 12, or 13</b> then RELATED FACTORS-PERSON (NOT A MV OCCUPANT) LEVEL must not equal <b>009, 090, or 094-097</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 8T0F            | If NON-MOTORIST SAFETY EQUIPMENT Subfield 1 Non-Motorist Helmet Use equals 2, then PERSON TYPE should equal 06, <b>07, 11, 12, or 13</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 8V0P            | If DEATH YEAR equals 9999, then DEATH MONTH and DEATH DAY must equal 99.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 8Z0F            | If any SEQUENCE OF EVENTS equals 15, then at least one Person Level (Not a MV Occupant) form must have a PERSON TYPE code of <b>11, 12, or 13</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

## 9 Series

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 900P            | If VEHICLE IDENTIFICATION NUMBER (VIN) does not equal 0s, 8s or 9s, and VEHICLE MODEL YEAR is a valid year and greater than or equal to 1980 and VEHICLE MODEL YEAR equals _____, then the 10th digit of the valid VEHICLE IDENTIFICATION NUMBER (VIN) should equal _____ (contact NHTSA Headquarters for VIN Assistance).                                                                                                                                                               |
| 902P            | If VEHICLE MODEL YEAR > 1980, VEHICLE MODEL YEAR is not equal to 9998 or 9999, and VEHICLE IDENTIFICATION NUMBER is not equal to all 0s, 8s, or 9s; then VEHICLE IDENTIFICATION NUMBER positions 1-8, 11-14 should equal A-H, J-N, P, R-Z, 0-9, or, *; VEHICLE IDENTIFICATION NUMBER position 9 should equal 0-9, X, or *; VEHICLE IDENTIFICATION NUMBER position 10 should equal A-H, J-N, P, R-T, V-Y, 1-9, or *; VEHICLE IDENTIFICATION NUMBER positions 15-17 should equal 0-9 or *. |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 903P            | If VEHICLE MODEL YEAR > 1980, VEHICLE MODEL YEAR is not equal to 9998 or 9999, and VEHICLE IDENTIFICATION NUMBER is not equal to all 0s, 8s, or 9s, then VEHICLE IDENTIFICATION NUMBER positions 1-8, 11 should equal A-H, J-N, P, R-Z, or 0-9; VEHICLE IDENTIFICATION NUMBER position 9 should equal 0-9, or X; VEHICLE IDENTIFICATION NUMBER position 10 should equal A-H, J-N, P, R-T, V-Y, or 1-9; VEHICLE IDENTIFICATION NUMBER positions 12-14 should equal A-H, J-N, P, R-Z, 0-9 or *; VEHICLE IDENTIFICATION NUMBER positions 15-17 should equal 0-9 or *. |
| 904P            | If TRAILER VEHICLE IDENTIFICATION NUMBER is not equal to all 0s, 7s, 8s, or 9s, then TRAILER VEHICLE IDENTIFICATION NUMBER positions 1-8, 11-14 should equal A-H, J-N, P, R-Z, 0-9, or, *; TRAILER VEHICLE IDENTIFICATION NUMBER position 9 should equal 0-9, X, or *; TRAILER VEHICLE IDENTIFICATION NUMBER position 10 should equal A-H, J-N, P, R-T, V-Y, 1-9, or *; TRAILER VEHICLE IDENTIFICATION NUMBER positions 15-17 should equal 0-9 or *.                                                                                                               |
| 905P            | If TRAILER VEHICLE IDENTIFICATION NUMBER is not equal to all 0s, 7s, 8s, or 9s, then TRAILER VEHICLE IDENTIFICATION NUMBER positions 1-8, 11 should equal A-H, J-N, P, R-Z, 0-9, or *; TRAILER VEHICLE IDENTIFICATION NUMBER position 9 should equal 0-9, X, or *; TRAILER VEHICLE IDENTIFICATION NUMBER position 10 should equal A-H, J-N, P, R-T, V-Y, 1-9, or *; TRAILER VEHICLE IDENTIFICATION NUMBER positions 12-14 should equal A-H, J-N, P, R-Z, 0-9, or *; TRAILER VEHICLE IDENTIFICATION NUMBER positions 15-17 should equal 0-9 or *.                   |
| 907P            | If VEHICLE IDENTIFICATION NUMBER (VIN) does not equal 0s, 8s, or 9s, then vPIC Body Class must not equal "Trailer" or "Incomplete - Trailer Chassis."                                                                                                                                                                                                                                                                                                                                                                                                              |
| 908P            | If TRAILER VEHICLE IDENTIFICATION NUMBER (VIN) does not equal 0s, 7s, 8s, or 9s, then <b>the trailer VIN decode</b> VPIC Body Class must equal "Trailer" or "Incomplete - Trailer Chassis."                                                                                                                                                                                                                                                                                                                                                                        |
| 909P            | <b>If STATE or PSU_STATE is equal to GA, and any VEHICLE IDENTIFICATION NUMBER (VIN) does not equal 0s, 8s, or 9s, then VEHICLE IDENTIFICATION NUMBER (VIN) should be unique within a crash.</b>                                                                                                                                                                                                                                                                                                                                                                   |
| 920P            | If any one of the fields NCSA MAKE, NCSA MODEL, NCSA BODY TYPE, and <b>VEHICLE</b> MODEL YEAR, equals Not Reported [NCSA MAKE (97), NCSA MODEL (997), NCSA BODY TYPE (98), and <b>VEHICLE</b> MODEL YEAR (9998)], then the other three must also equal Not Reported.                                                                                                                                                                                                                                                                                               |
| 921P            | If NCSA MAKE is not 97, 98, 99, and equals ___, and NCSA MODEL equals ___, then <b>VEHICLE</b> MODEL YEAR must equal ___, or CRASH YEAR plus 1.                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 930P            | If any one of the fields NCSA MAKE, NCSA MODEL, NCSA BODY TYPE, and <b>VEHICLE</b> MODEL YEAR, does not equal Not Reported [NCSA MAKE (97), NCSA MODEL (997), NCSA BODY TYPE (98), and <b>VEHICLE</b> MODEL YEAR (9998)], then the other three must also not be coded as Not Reported.                                                                                                                                                                                                                                                                             |
| 960P            | If NCSA MAKE is not 98, 99, and equals ___, and NCSA MODEL equals ___, then NCSA BODY TYPE must equal ___ (NCSA MAKE, NCSA MODEL, and NCSA BODY TYPE must be valid according to Vehicle Tables).                                                                                                                                                                                                                                                                                                                                                                   |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 981P            | If <b>vPIC BODY CLASS</b> equals 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport/Adventure/Supermoto/On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 097 (Off-road Vehicle - Snowmobile), 098 (Motorcycle - Street), 104 (Moped), 105 (Off-road Vehicle - Recreational Off-Road Vehicle (ROV)), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle), then HELMET USE Subfield 1 Helmet Use must equal 05, 16, 17, 19, 98, or 99.                                                                                                                                                                                                                   |
| 982P            | If <b>vPIC BODY CLASS</b> does not equal 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport/Adventure/Supermoto/On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 097 (Off-road Vehicle - Snowmobile), 098 (Motorcycle - Street), 100 (Motorcycle - Enclosed Three Wheeled / Enclosed Autocycle), 103 (Motorcycle - Unenclosed Three Wheeled / Open Autocycle), 104 (Moped), 105 (Off-road Vehicle - Recreational Off-Road Vehicle (ROV)), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 124 (Off-road Vehicle - Go Kart), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle), then HELMET USE Subfield 1 Helmet Use must equal 20 and HELMET USE Subfield 2 Any Indication of Mis-Use must equal 7. |
| 990P            | If any counter equals 99, then all counters must equal 99 and DATE OF <b>MOST RECENT</b> CRASH, SUSPENSION, CONVICTION and DATE OF <b>OLDEST</b> CRASH, SUSPENSION, CONVICTION must equal 9999 [year]/99 [month].                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 9A2P            | If UNIT TYPE equals 2, 3, then REGISTERED VEHICLE OWNER must equal 6.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 9A3P            | If UNIT TYPE equals 2-4, then DRIVER PRESENCE must equal 0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 9A5P            | If PERSON TYPE equals 03, then UNIT TYPE must equal 2-4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 9B3P            | If UNDERRIDE/OVERRIDE equals 7, then there must be at least one vehicle with UNIT TYPE equal to 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 9B4P            | If UNDERRIDE/OVERRIDE equals 8, then there must at least one vehicle with UNIT TYPE equal 2-4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 9B5P            | If UNIT TYPE equals 2, 3, then UNDERRIDE/OVERRIDE must equal 0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 9B7P            | If UNIT TYPE equals 2-4, then PERSON TYPE of all occupants of this vehicle must equal 03.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 9B9P            | If any SEQUENCE OF EVENTS equals 55, then there must be at least one other vehicle with UNIT TYPE equal to 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                               |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9BAP            | If MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 07, and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 10 or 11 for neither one of the vehicles involved in the FIRST HARMFUL EVENT, then CRASH TYPE should equal 44-49, 98, 99 for the vehicles involved in the FIRST HARMFUL EVENT. |
| 9BCP            | If MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 08, and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 10 or 11 for neither one of the vehicles involved in the FIRST HARMFUL EVENT, then CRASH TYPE should equal 64-67, 98, 99 for the vehicles involved in the FIRST HARMFUL EVENT. |
| 9BDP            | If MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 01, then CRASH TYPE should not equal 44-49 for the vehicles involved in the FIRST HARMFUL EVENT.                                                                                                                                                          |
| 9C0P            | If FIRST HARMFUL EVENT equals 55, then there must be at least one vehicle with UNIT TYPE equal to 1.                                                                                                                                                                                                               |
| 9C1P            | If UNIT TYPE equals 4, then RELATED FACTORS-VEHICLE LEVEL must not equal 039.                                                                                                                                                                                                                                      |
| 9C4P            | If UNIT TYPE equals 1, and DRIVER PRESENCE equals 0 or 9, then DRIVER MANEUVERED TO AVOID must only equal 95.                                                                                                                                                                                                      |
| 9C5P            | If DRIVER MANEUVERED TO AVOID equals 95, then DRIVER PRESENCE must equal 0 or 9.                                                                                                                                                                                                                                   |
| 9C6P            | If UNIT TYPE equals 2-4, then RELATED FACTORS-DRIVER LEVEL must equal 000.                                                                                                                                                                                                                                         |
| 9J0P            | If LICENSE COMPLIANCE WITH CLASS OF VEHICLE equals 0-1, then COMPLIANCE WITH LICENSE RESTRICTIONS must not equal 1-3, 9.                                                                                                                                                                                           |
| 9K0P            | If HM2 equals 2, then REGISTRATION STATE must not equal 00.                                                                                                                                                                                                                                                        |
| 9L0F            | If PERSON TYPE equals 01, and RELATED FACTORS-DRIVER LEVEL equals 012, then SEX must equal 2, and AGE must be greater than 012.                                                                                                                                                                                    |
| <b>9L0P</b>     | <b><i>If any RELATED FACTORS-DRIVER LEVEL equals 010, then ATTEMPTED AVOIDANCE MANEUVER must equal 01.</i></b>                                                                                                                                                                                                     |
| 9M0F            | If PERSON TYPE equals 05, then RELATED FACTORS-PERSON LEVEL (Not a MV Occupant) must not equal 013, 021, 026, 040, 042, 051, 052, 057, 068-070, 073-083, or 100.                                                                                                                                                   |
| 9V0P            | If DEATH MONTH equals 99, then DEATH DAY must equal 99.                                                                                                                                                                                                                                                            |

## A Series

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                 |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A010            | If STATE equals 02, and LIGHT CONDITION equals 4, then CRASH TIME should equal 0300-1000, 9999.                                                                                                                                                                                      |
| A020            | If STATE equals 02, and LIGHT CONDITION equals 5, then CRASH TIME should equal 1500-2359, 9999.                                                                                                                                                                                      |
| A030            | If CRASH MONTH equals 05-09, then ATMOSPHERIC CONDITIONS should not equal 03, 04, 11, 12.                                                                                                                                                                                            |
| A040            | If CRASH MONTH equals 05-09, then ROADWAY SURFACE CONDITIONS should not equal 03, 04, 10.                                                                                                                                                                                            |
| A041            | If CRASH MONTH equals 05-09, then SEQUENCE OF EVENTS, FIRST HARMFUL EVENT, MOST HARMFUL EVENT should not equal 48.                                                                                                                                                                   |
| A042            | If CRASH EVENTS-SEQUENCE OF EVENTS equals <b>14</b> , 17, 19-21, 23-26, 30-35, 38-43, <b>46</b> , 52, 53, 57- <b>59</b> , <b>65</b> , <b>or</b> 93 for a vehicle, then at least one previous CRASH EVENTS-SEQUENCE OF EVENTS should equal 63, 64, 71, or 79 for <b>this</b> vehicle. |
| A043            | SEQUENCE OF EVENTS for the last event in the CRASH EVENTS TABLE must not equal 60-71, 79.                                                                                                                                                                                            |
| A044            | If CRASH EVENTS TABLE - SEQUENCE OF EVENT equals 45, then the UNIT TYPE for VEHICLE NUMBER (OTHER VEHICLE) must equal 4.                                                                                                                                                             |
| A045            | If CRASH EVENTS TABLE - SEQUENCE OF EVENT equals 14, then the UNIT TYPE for VEHICLE NUMBER (OTHER VEHICLE) must equal 2 or 3.                                                                                                                                                        |
| A046            | The UNIT TYPE for VEHICLE NUMBER (THIS VEHICLE) in the CRASH EVENTS must equal 1.                                                                                                                                                                                                    |
| A047            | If CRASH EVENTS TABLE - VEHICLE NUMBER (OTHER VEHICLE) UNIT TYPE is 1, then SEQUENCE OF EVENT must equal 12, 54, or 55 for that row.                                                                                                                                                 |
| A050            | If CRASH TIME equals 0900-1600, then LIGHT CONDITION should not equal 2-6.                                                                                                                                                                                                           |
| A060            | If CRASH TIME equals 2300-0400, then LIGHT CONDITION should not equal 1, 4, 5, 9.                                                                                                                                                                                                    |
| A070            | If NOTIFICATION TIME EMS is not 8888, 9998, or 9999, then NOTIFICATION TIME EMS should not be more than 120 minutes later than CRASH TIME.                                                                                                                                           |
| A080            | If DRIVER PRESENCE equals 0, and FIRST HARMFUL EVENT equals 12, and NUMBER OF VEHICLE FORMS SUBMITTED equals 002, then one RELATED FACTORS-DRIVER LEVEL should equal <b>020</b> or <b>054</b> .                                                                                      |
| A090            | If NUMBER OF VEHICLE FORMS SUBMITTED is greater than 001, then there should be at least one vehicle with TRAVEL SPEED of 001-151, 997-999, or blanks.                                                                                                                                |
| <b>A091</b>     | <b>If NUMBER OF VEHICLE FORMS SUBMITTED is greater than one, and CRITICAL EVENT – PRECRASH (EVENT) equals 70-73, then TRAFFICWAY DESCRIPTION should equal 0 for at least one other vehicle in the crash.</b>                                                                         |
| A100            | If FIRST HARMFUL EVENT is not equal to 02, 04, 05, 10, 16, then there should be one vehicle with TRAVEL SPEED of 001-151, 997-999, or blanks.                                                                                                                                        |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                          |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A110            | If FIRST HARMFUL EVENT equals 10, then LAND USE AND FUNCTIONAL SYSTEM (b) should not equal 01-03.                                                                             |
| A11A            | If FUNCTIONAL SYSTEM (b) equals 01, then OWNERSHIP must equal 01 or 31.                                                                                                       |
| A12A            | If either FUNCTIONAL SYSTEM (b) or OWNERSHIP equals 96, then both must equal 96.                                                                                              |
| A131            | If RELATION TO JUNCTION (b) equals 02, 04, 06, 16, 17, or 20, then RELATION TO TRAFFICWAY must equal 01.                                                                      |
| A13A            | If LAND USE (a) equals 6, then FUNCTIONAL SYSTEM (b) must equal 96.                                                                                                           |
| A141            | If RELATION TO JUNCTION (b) equals 18, then RELATION TO TRAFFICWAY must equal 01 or 11.                                                                                       |
| A14A            | If FUNCTIONAL SYSTEM (b) equals 96, then LAND USE a must equal 6.                                                                                                             |
| A150            | If LAND USE AND FUNCTIONAL SYSTEM (b) equals 01, 02, and RELATION TO JUNCTION (a) equals 0, then RELATION TO JUNCTION should not equal 02-04, 06, 08.                         |
| A15A            | If FUNCTIONAL SYSTEM (b) equals 99, then LAND USE (a) should equal 9, OWNERSHIP should equal 99, and NATIONAL HIGHWAY SYSTEM should equal 9.                                  |
| A160            | If LAND USE AND FUNCTIONAL SYSTEM (b) equals 01-06, then ROADWAY SURFACE TYPE should equal 1, 2, 8 or 9 for at least one vehicle.                                             |
| <b>A16A</b>     | <b><i>If FUNCTIONAL SYSTEM equals 1, and STATE does not equal 02, and RELATION TO JUNCTION equals 01, 07, 18, or 19, then TRAFFICWAY DESCRIPTION should equal 2 or 3.</i></b> |
| A170            | If ROADWAY SURFACE TYPE equals 3-5 for every vehicle, then LAND USE AND FUNCTIONAL SYSTEM (b) should not equal 01-06.                                                         |
| A180            | If LAND USE AND FUNCTIONAL SYSTEM (b) equals 01, then SPECIAL JURISDICTION should not equal 1-5, 8, 9.                                                                        |
| A190            | If LAND USE AND FUNCTIONAL SYSTEM (b) equals 02, then SPECIAL JURISDICTION should not equal 4.                                                                                |
| A1A0            | If ROADWAY SURFACE CONDITIONS equals 01 for a vehicle involved in the FIRST HARMFUL EVENT, then ATMOSPHERIC CONDITIONS should not equal 02-04, 11, 12.                        |
| A1B0            | If TRAFFIC CONTROL DEVICE equals 20, 21 for a vehicle involved in the FIRST HARMFUL EVENT, then RELATION TO JUNCTION (b) should not equal 01, 18.                             |
| A1C0            | If ROADWAY SURFACE CONDITIONS equals 01, then DRIVER'S VISION OBSCURED BY should not equal 08.                                                                                |
| A1E0            | If RELATION TO JUNCTION (b) equals 19, then RELATION TO TRAFFICWAY must not equal 01, 11, 98, <b>or</b> 99.                                                                   |
| A200            | If RELATION TO JUNCTION (b) equals 07, then LAND USE AND FUNCTIONAL SYSTEM (b) should not equal 06, 07 or 96.                                                                 |
| A210            | If LAND USE AND FUNCTIONAL SYSTEM (b) equals 01, 02, and RELATION TO JUNCTION (a) equals 0, then TRAFFIC CONTROL DEVICE should not equal 01-04, 07, 20, 23, 40, 50, 65.       |
| A220            | If LAND USE AND FUNCTIONAL SYSTEM (b) equals 01, 02, and RELATION TO JUNCTION (a) equals 0, then SPEED LIMIT should not equal 05-40 for any vehicle.                          |



| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                    |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A230            | If SEQUENCE OF EVENTS equals 10, then LAND USE AND FUNCTIONAL SYSTEM (b) should not equal 01-03.                                                                                                                                                        |
| A240            | If LAND USE AND FUNCTIONAL SYSTEM (b) equals 01, and RELATION TO JUNCTION (a) equals 0, then TRAVEL SPEED should not equal 005-040 for any vehicle.                                                                                                     |
| A250            | If LAND USE AND FUNCTIONAL SYSTEM (b) equals 01-03, and RELATION TO JUNCTION (a) equals 1, and RELATION TO JUNCTION (b) does not equal 03, 05, 20, then TOTAL LANES IN ROADWAY should not equal 1 for the vehicles involved in the FIRST HARMFUL EVENT. |
| A270            | If any VIOLATIONS CHARGED equals 31 <b>or</b> 33, then TRAFFIC CONTROL DEVICE should equal 01-03 <b>for this vehicle</b> .                                                                                                                              |
| A271            | <b><i>If VIOLATIONS CHARGED equals 32 or 34, then TRAFFIC CONTROL DEVICE should equal 04, for this vehicle.</i></b>                                                                                                                                     |
| A272            | <b><i>If VIOLATIONS CHARGED equals 35, then TRAFFIC CONTROL DEVICE should equal 01-09, for this vehicle.</i></b>                                                                                                                                        |
| A273            | <b><i>If VIOLATIONS CHARGED equals 36, then TRAFFIC CONTROL DEVICE should equal 65, for this vehicle.</i></b>                                                                                                                                           |
| A274            | <b><i>If VIOLATIONS CHARGED equals 37, then TRAFFIC CONTROL DEVICE should equal 20, for this vehicle.</i></b>                                                                                                                                           |
| A275            | <b><i>If VIOLATIONS CHARGED equals 38, then TRAFFIC CONTROL DEVICE should equal 21, for this vehicle.</i></b>                                                                                                                                           |
| A276            | <b><i>If VIOLATIONS CHARGED equals 39, then TRAFFIC CONTROL DEVICE must not equal 00, for this vehicle.</i></b>                                                                                                                                         |
| A280            | If ROUTE SIGNING equals 1, then SPECIAL JURISDICTION should not equal 1-5, 8, 9.                                                                                                                                                                        |
| A290            | If ROUTE SIGNING equals 1 and RELATION TO JUNCTION (a) equals 0, then RELATION TO JUNCTION (b) should not equal 02-04, 06, 08, 16.                                                                                                                      |
| A291            | If RELATION TO JUNCTION (b) equals 07, then ROUTE SIGNING should not equal 5, 6.                                                                                                                                                                        |
| A292            | If any TRAFFICWAY DESCRIPTION, TOTAL LANES IN ROADWAY, ROADWAY ALIGNMENT, ROADWAY GRADE, ROADWAY SURFACE TYPE, or ROADWAY SURFACE CONDITIONS equals 0, 00, then all must equal 0, 00, and SPEED LIMIT must equal 00 for this vehicle.                   |
| A293            | If WORK ZONE equals 1-3, and RELATION TO JUNCTION (b) equals 02, 03, then TRAFFIC CONTROL DEVICE should equal 01-03, 20, 40, 97 or 98 for the vehicle(s) involved in the FIRST HARMFUL EVENT.                                                           |
| A294            | If WORK ZONE equals 1-3, and RELATION TO JUNCTION (b) equals 01, 04, 05, 08, 17-19, then TRAFFIC CONTROL DEVICE should equal 00, 21, 28, 40, 50, 97 or 98 for the vehicle(s) involved in the FIRST HARMFUL EVENT.                                       |
| A300            | If ROUTE SIGNING equals 1, then TRAFFICWAY DESCRIPTION should equal 2, 3, 6 for at least one vehicle.                                                                                                                                                   |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| A310            | If ROUTE SIGNING equals 1, and RELATION TO JUNCTION (a) equals 0, then TOTAL LANES IN ROADWAY should not equal 1 for any vehicle.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| A320            | If ROUTE SIGNING equals 1 and RELATION TO JUNCTION (a) equals 0, then SPEED LIMIT should not equal 05-40 for any vehicle.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| A330            | If ROUTE SIGNING equals 1, 2, then ROADWAY SURFACE TYPE should equal 1, 2, 8 for at least one vehicle.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| A350            | If ROUTE SIGNING equals 1, then FIRST HARMFUL EVENT should not equal 10.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| A360            | If RELATION TO JUNCTION (b) equals 07, then ROUTE SIGNING should not equal 4-8.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| A370            | If FIRST HARMFUL EVENT equals 99, then MANNER OF COLLISION OF THE FIRST HARMFUL EVENT should not equal 00, 01-11.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| A380            | If FIRST HARMFUL EVENT equals 01 and this vehicle is involved in the FIRST HARMFUL EVENT and <b>vPIC BODY CLASS does not equal 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring / Sport Touring), 082 (Motorcycle - Cruiser), 084 Off-road Vehicle - Dirt Bike / Off-Road), 085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road), 086 (Off-road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small / Minibike), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 104 (Motorcycle - Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motocross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle),</b> for this vehicle, and RELATION TO TRAFFICWAY equals _____, then LOCATION OF ROLLOVER should equal _____ respectively. |
| A390            | If FIRST HARMFUL EVENT equals 17, 19-21, 23-26, 30-35, 38-43, 52, 53, 57, <b>58</b> , 93, then RELATION TO TRAFFICWAY should not equal 01, 02, 07, 11.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| A3C0            | If FIRST HARMFUL EVENT equals 02-07, 16, 44, 51, 72, then CRASH TYPE must equal 00 for the vehicle involved in the FIRST HARMFUL EVENT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| A3D0            | If FIRST HARMFUL EVENT equals 01-07, 16, 44, 51, 72, then CRASH TYPE must not equal 20-91.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| A3E0            | If CRASH TYPE equals 13, then FIRST HARMFUL EVENT must equal 08, 09, 11, 15 or 49.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| A3G0            | If INTERSTATE HIGHWAY equals 1, RELATION TO JUNCTION (a) equals 1, and RELATION TO JUNCTION (b) is not equal to 03 or 05 or 20, then TOTAL LANES IN ROADWAY should not equal 1 for at least one vehicle involved in the FIRST HARMFUL EVENT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| A3H0            | If INTERSTATE HIGHWAY equals 1, RELATION TO JUNCTION (a) equals 1, and RELATION TO JUNCTION (b) is not equal to 03 or 05 or 20, then TRAFFICWAY DESCRIPTION should not equal 4 for at least one vehicle involved in the FIRST HARMFUL EVENT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| A3I0            | If INTERSTATE HIGHWAY equals 1, then RELATION TO JUNCTION (b) should not equal 02, 04, 06, 08, or 16.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                  |
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| A3J0            | If INTERSTATE HIGHWAY equals 1, RELATION TO JUNCTION (a) equals 1, and RELATION TO JUNCTION (b) is not equal to 03 or 05 or 20, then SPEED LIMIT should not equal 01-40 for at least one vehicle involved in the FIRST HARMFUL EVENT. |
| A3K0            | If FIRST HARMFUL EVENT equals 10, then INTERSTATE HIGHWAY should not equal 1.                                                                                                                                                         |
| A41A            | If FIRST HARMFUL EVENT equals 02, 04, 07, 16, 44 or 54, then CRITICAL EVENT - PRECRASH (EVENT) should equal 98 for the vehicles involved in the FIRST HARMFUL EVENT.                                                                  |
| A420            | If FIRST HARMFUL EVENT equals 10, then RELATION TO JUNCTION (b) should equal 06.                                                                                                                                                      |
| A421            | If FIRST HARMFUL EVENT equals <b>20, 21, 23</b> , 24, 25, <b>26</b> , 30, <b>32</b> , 33, 34, 35, 40, 46, 52, <b>53</b> , 57, 59, then RELATION TO TRAFFICWAY should equal 03, 04, 08, 10, or 12.                                     |
| A430            | If PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 10-11 for a vehicle involved in the FIRST HARMFUL EVENT, then RELATION TO JUNCTION (b) should not equal 01, 18.                                                 |
| A440            | If RELATION TO JUNCTION (b) equals 06, then TRAFFIC CONTROL DEVICE should equal 65 for any vehicle involved in the FIRST HARMFUL EVENT.                                                                                               |
| A470            | If WORK ZONE equals 0, and TRAFFICWAY DESCRIPTION equals 1-3, 5, then TOTAL LANES IN ROADWAY should not equal 1.                                                                                                                      |
| A480            | If CRASH TYPE equals 00, then FIRST HARMFUL EVENT must equal 02-07, 16, 44, 51, 72.                                                                                                                                                   |
| A481            | If TRAFFICWAY DESCRIPTION equals 6, and RELATION TO JUNCTION (b) does not equal 02, 03, then TOTAL LANES IN ROADWAY should equal 1, 2, 8, 9.                                                                                          |
| A482            | If TRAFFICWAY DESCRIPTION equals 4 or 6, then TOTAL LANES IN ROADWAY should not equal 5-7.                                                                                                                                            |
| A490            | If TRAFFICWAY DESCRIPTION equals 2, 3, 5, then ROADWAY SURFACE TYPE should not equal 4, 5, 7.                                                                                                                                         |
| A491            | If TRAFFICWAY DESCRIPTION equals 2 or 3, then TOTAL LANES IN ROADWAY should not equal 7.                                                                                                                                              |
| A492            | If TRAFFICWAY DESCRIPTION equals 2, 3, 5, 6, then SPEED LIMIT must not equal 00.                                                                                                                                                      |
| A493            | If TRAFFICWAY DESCRIPTION equals 2, 3, 5, then SPEED LIMIT should be greater than 15.                                                                                                                                                 |
| A494            | If TRAFFICWAY DESCRIPTION equals 6, then ROADWAY GRADE should not equal 3, 4.                                                                                                                                                         |
| A495            | If TRAFFICWAY DESCRIPTION equals 0, then the first event in SEQUENCE OF EVENTS for this vehicle should not equal 63, 64, 69 or 71.                                                                                                    |
| A496            | If <b>RELATION TO JUNCTION (b) does not equal 02 or 03, and</b> TRAFFICWAY DESCRIPTION equals 5, then TOTAL LANES IN ROADWAY should not equal 1, 2, <b>4</b> , or <b>6</b> .                                                          |
| A4A0            | If CRASH TYPE equals 01-16, then FIRST HARMFUL EVENT must not equal 12.                                                                                                                                                               |
| A4B0            | If CRASH TYPE equals 01-10 or 14, then RELATION TO TRAFFICWAY must not equal 01, 02, 07 or 11. If the FHE occurs on a different road than the road it departed, see <a href="#">98 (Other Crash Type)</a> .                           |
| A4B2            | If CRASH TYPE equals 11, then RELATION TO TRAFFICWAY must not equal 01, 03, 04, 05, 08, 10, 11, or 12.                                                                                                                                |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                          |
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| A4B3            | If CRASH TYPE equals 12 or 13, then RELATION TO TRAFFICWAY must not equal 03, 05, 08, 10, or 12.                                                                                                              |
| A4B4            | If CRASH TYPE equals 12 (Stationary Object on Road) or 13 (Pedestrian/Animal on Road), then RELATION TO TRAFFICWAY should not equal 04 (On Roadside) unless the FIRST HARMFUL EVENT occurs in a bicycle lane. |
| A4BP            | If FIRST HARMFUL EVENT equals 54 or 55, then CRASH TYPE must equal 98 for the vehicles involved in the FIRST HARMFUL EVENT.                                                                                   |
| A4C0            | If RELATION TO JUNCTION (b) equals 04, then at least one PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) for the vehicles involved in the FIRST HARMFUL EVENT should equal 10, 11, 13 or 98.      |
| A4D0            | If PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 14, then ROADWAY ALIGNMENT must equal 2-4.                                                                                              |
| A4D1            | If PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 01, then ROADWAY ALIGNMENT should not equal 2-4.                                                                                        |
| A4DP            | If CRASH TYPE equals 20-91, then FIRST HARMFUL EVENT must equal 12.                                                                                                                                           |
| A4EP            | If CRASH TYPE equals 11, then FIRST HARMFUL EVENT must equal 14.                                                                                                                                              |
| A500            | If TOTAL LANES IN ROADWAY equals 3-7, then ROADWAY SURFACE TYPE should not equal 4, 5, 7.                                                                                                                     |
| A510            | If any ATMOSPHERIC CONDITIONS equals 02-04, 11, 12, then ROADWAY SURFACE CONDITIONS should not equal 01, 07, 08, 99 for any vehicle.                                                                          |
| A520            | If SEQUENCE OF EVENTS equals 10, then TRAFFIC CONTROL DEVICE should not equal 01-09, 20-29, 40-50, 98.                                                                                                        |
| A521            | If any SEQUENCE OF EVENTS equals 46, then SPEED LIMIT should equal 05-55, 98, or 99 for this vehicle.                                                                                                         |
| A540            | If NOTIFICATION TIME EMS is not 8888, 9998, or 9999, and ARRIVAL TIME EMS is not 8888, 9997, 9998, 9999, then ARRIVAL TIME EMS should not be more than 120 minutes later than NOTIFICATION TIME EMS.          |
| A550            | If ARRIVAL TIME EMS is not 8888, 9997, 9998, or 9999, and EMS TIME AT HOSPITAL is not 8888, 9997, 9998, 9999, then EMS TIME AT HOSPITAL should not be more than 60 minutes later than ARRIVAL TIME EMS.       |
| A551            | If EMS TIME AT HOSPITAL equals 8888, 9997, 9998, then TRANSPORTED TO FIRST MEDICAL FACILITY BY should not equal 1, 3, 5 for any person.                                                                       |
| A560            | If NOTIFICATION TIME EMS is not 8888, 9998, or 9999, and EMS TIME AT HOSPITAL is not 8888, 9997, 9998, 9999, then EMS TIME AT HOSPITAL should not be more than 180 minutes later than NOTIFICATION TIME EMS.  |
| A60F            | If FIRST HARMFUL EVENT equals 14, then CRASH TYPE should equal 01-11, 14, 15, 92, 98, 99.                                                                                                                     |
| A610            | If RELATION TO TRAFFICWAY equals 01, and RELATION TO JUNCTION (b) equals 05, then TRAFFICWAY DESCRIPTION should equal 6 for at least one vehicle involved in the FIRST HARMFUL EVENT.                         |
| A611            | If TRAFFICWAY DESCRIPTION equals 6 for at least one vehicle involved in the FIRST HARMFUL EVENT, then RELATION TO JUNCTION (b) should equal 02, 03, 05, 17-20.                                                |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                                                 |
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| A612            | If PERSON TYPE equals 04, and VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST equals____, then at least one SEQUENCE OF EVENTS must equal 10, 49, or 74 for that vehicle number in the CRASH EVENTS table.                                                                                                                     |
| A613            | If PERSON TYPE equals 05, and VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST equals____, then at least one SEQUENCE OF EVENTS must equal 08 for that vehicle number in the CRASH EVENTS table.                                                                                                                                |
| A614            | If PERSON TYPE equals 06, and VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST equals____, then at least one SEQUENCE OF EVENTS must equal 09 for that vehicle number in the CRASH EVENTS table.                                                                                                                                |
| A615            | If PERSON TYPE equals 07, and VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST equals____, then at least one SEQUENCE OF EVENTS must equal 09 for that vehicle number in the CRASH EVENTS table.                                                                                                                                |
| A616            | If PERSON TYPE equals <b>11, 12, or 13</b> , and VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST equals____, then at least one SEQUENCE OF EVENTS must equal 15 for that vehicle number in the CRASH EVENTS table.                                                                                                             |
| A617            | If PERSON TYPE equals 10, and VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST equals____, then at least one SEQUENCE OF EVENTS must equal 08 for that vehicle number in the CRASH EVENTS table.                                                                                                                                |
| A618            | If PERSON TYPE equals 19, and VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST equals____, then at least one SEQUENCE OF EVENTS must equal 99 for that vehicle number in the CRASH EVENTS table.                                                                                                                                |
| A619            | If the total count of persons with PERSON TYPE equal to 05 that have the same VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is ____, then the number of events equal to 08 for that vehicle in the CRASH EVENTS table should equal ____.                                                                                     |
| A61A            | If the total count of PERSON TYPE is equal to <b>11, 12, or 13</b> for the vehicle in VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is ____, then the number of events equal to 15 in the CRASH EVENTS table should equal ____ for that vehicle.                                                                             |
| A61B            | If the total count of PERSON TYPE is equal to 10 for the vehicle in VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is ____, then the number of events equal to 08 in the CRASH EVENTS table should equal ____ for that vehicle.                                                                                               |
| A61F            | If FIRST HARMFUL EVENT equals 08, 09, 11, 15, 49, and RELATION TO TRAFFICWAY equals 01, 02, 07, 11, and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) is not equal to 00, 13 for the vehicle involved in the FIRST HARMFUL EVENT, then CRASH TYPE should equal 13 for the vehicle involved in the FIRST HARMFUL EVENT. |
| A61G            | If the FIRST HARMFUL EVENT equals 08, and PERSON TYPE equals 05, and NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, 22, 24, 25, 28, and the VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is involved in the FIRST HARMFUL EVENT, then CRASH TYPE should not equal 13 for this vehicle.                               |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                                      |
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| A61H            | If the FIRST HARMFUL EVENT equals 09, and PERSON TYPE equals 06, 07, and NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, 22, 24, 25, 28, and the VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is involved in the FIRST HARMFUL EVENT, then CRASH TYPE should not equal 13 for this vehicle.                |
| A61J            | If the FIRST HARMFUL EVENT equals 15, and PERSON TYPE equals <b>11, 12, or 13</b> , and NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, 22, 24, 25, 28, and the VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is involved in the FIRST HARMFUL EVENT, then CRASH TYPE should not equal 13 for this vehicle. |
| A61K            | If the FIRST HARMFUL EVENT equals 49, and PERSON TYPE equals 04, and NON-MOTORIST LOCATION AT THE TIME OF CRASH equals 21, 22, 24, 25, 28, and the VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST is involved in the FIRST HARMFUL EVENT, then CRASH TYPE should not equal 13 for this vehicle.                    |
| A620            | If CRASH TYPE equals 06-10, and TRAFFICWAY DESCRIPTION equals 3, then RELATION TO TRAFFICWAY should equal 03 or 12.                                                                                                                                                                                                       |
| A62F            | If FIRST HARMFUL EVENT equals 18, 43, 73, 91, or 93, and RELATION TO TRAFFICWAY equals 01, 02, or 11, then CRASH TYPE should equal 12 or 15 for the vehicle involved in the FIRST HARMFUL EVENT.                                                                                                                          |
| A62G            | If FIRST HARMFUL EVENT equals 98 and RELATION TO TRAFFICWAY equals 01, 02, or 11, then CRASH TYPE must equal 16 for the vehicle involved in the FIRST HARMFUL EVENT.                                                                                                                                                      |
| A63F            | If FIRST HARMFUL EVENT equals 01, then CRASH TYPE should equal 01-10, 98, 99 for the vehicle involved in the FIRST HARMFUL EVENT.                                                                                                                                                                                         |
| A65F            | If FIRST HARMFUL EVENT equals 14, and RELATED FACTORS - PERSON (MV OCCUPANT) LEVEL equals <b>032</b> or <b>089</b> for an occupant of the parked vehicle involved in the FIRST HARMFUL EVENT, then CRASH TYPE should equal 15, 92 or 98 for the in-transport vehicle involved in the FIRST HARMFUL EVENT.                 |
| A66F            | If FIRST HARMFUL EVENT equals 14 and CRASH TYPE equals 01-10 or 14, then RELATED FACTORS - PERSON (MV OCCUPANT) LEVEL must not equal <b>032</b> or <b>089</b> for any occupant of the parked vehicle involved in the FIRST HARMFUL EVENT.                                                                                 |
| A700            | If SPEED LIMIT is greater than 65 for every vehicle and STATE NUMBER does not equal 48, then ROUTE SIGNING should equal 1-4.                                                                                                                                                                                              |
| A720            | If LAND USE AND FUNCTIONAL SYSTEM (b) equals 01, 02, then TRAFFICWAY DESCRIPTION should equal 2, 3, 6 for at least one vehicle.                                                                                                                                                                                           |
| A770            | If FIRST HARMFUL EVENT equals 46, then TRAFFIC CONTROL DEVICE should equal 01-04, <b>65</b> for the vehicle involved in the FIRST HARMFUL EVENT.                                                                                                                                                                          |
| A780            | If FIRST HARMFUL EVENT equals 46, then TRAFFIC CONTROL DEVICE should not equal 00 for the vehicle involved in the FIRST HARMFUL EVENT.                                                                                                                                                                                    |
| A790            | If FIRST HARMFUL EVENT equals 46, then RELATION TO JUNCTION (b) should not equal 01, 07.                                                                                                                                                                                                                                  |
| A800            | If FIRST HARMFUL EVENT equals 46, then RELATION TO TRAFFICWAY should not equal 01, 02, 05, 07, 11.                                                                                                                                                                                                                        |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                              |
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| A801            | If FIRST HARMFUL EVENT equals 12, then RELATION TO TRAFFICWAY must not equal 5.                                                                                                                                                                                   |
| A810            | If FIRST HARMFUL EVENT equals 46, and RELATION TO JUNCTION (a) equals 1, and RELATION TO JUNCTION (b) does not equal 02, 03, 05, then LAND USE AND FUNCTIONAL SYSTEM (b) should not equal 01.                                                                     |
| A820            | If FIRST HARMFUL EVENT equals 46, and RELATION TO JUNCTION (a) equals 1 and RELATION TO JUNCTION (b) does not equal 02, 03, 05, then ROUTE SIGNING should not equal 1.                                                                                            |
| A840            | If ROUTE SIGNING equals 7, then LAND USE AND FUNCTIONAL SYSTEM (b) should equal 01-03.                                                                                                                                                                            |
| A850            | If LAND USE AND FUNCTIONAL SYSTEM (b) equals 02, and ROUTE SIGNING equals 2, then NATIONAL HIGHWAY SYSTEM should equal 1.                                                                                                                                         |
| A860            | If NATIONAL HIGHWAY SYSTEM equals 1, then LAND USE AND FUNCTIONAL SYSTEM (b) should equal 01-03.                                                                                                                                                                  |
| A881            | If RELATION TO TRAFFICWAY equals 11, then TRAFFICWAY DESCRIPTION should equal 5 for at least one vehicle.                                                                                                                                                         |
| A882            | If RELATION TO TRAFFICWAY equals 07, then ROUTE SIGNING should not equal 1.                                                                                                                                                                                       |
| A883            | If RELATION TO TRAFFICWAY equals 07, then LAND USE AND FUNCTIONAL SYSTEM (b) should not equal 01.                                                                                                                                                                 |
| A890            | If RELATION TO JUNCTION (b) equals 01, then TRAFFIC CONTROL DEVICE should not equal 01- <b>04, 20, or 21</b> for any vehicle involved in the FIRST HARMFUL EVENT.                                                                                                 |
| A891            | If RELATION TO JUNCTION (b) equals 98 or 99, then TRAFFIC CONTROL DEVICE should not equal 01, 02, 03, 20, 21, or 65 for a vehicle involved in the FIRST HARMFUL EVENT.                                                                                            |
| A900            | If SPEED LIMIT equals 60 <b>or</b> 65 for every vehicle and STATE NUMBER does not equal <b>20 or 48</b> , then LAND USE AND FUNCTIONAL SYSTEM (b) should not equal 04-07 or 96.                                                                                   |
| A910            | If LAND USE AND FUNCTION SYSTEM (b) equals 04-07 or 96, then NATIONAL HIGHWAY SYSTEM should equal 0, 9.                                                                                                                                                           |
| A920            | If NATIONAL HIGHWAY SYSTEM equals 0, 9, then LAND USE AND FUNCTIONAL SYSTEM (b) should not equal 02, and ROUTE SIGNING should not equal 2.                                                                                                                        |
| A930            | If INTERSTATE HIGHWAY equals 1, and RELATION TO JUNCTION (a) equals 1, and RELATION TO JUNCTION (b) is not equal to 03, 05, or 20, then TRAFFIC CONTROL DEVICE should not equal 01-03, 20, 23 or 65 for at least one vehicle involved in the FIRST HARMFUL EVENT. |
| A940            | If STATE NUMBER equals 11, then maximum SPEED LIMIT (not including 98 or 99) should equal 55.                                                                                                                                                                     |
| A945            | If STATE NUMBER equals 15, then maximum SPEED LIMIT (not including 98 or 99) should equal 60.                                                                                                                                                                     |
| A950            | If STATE NUMBER equals 02, 09, 10, 25, 34, 36, 41, 43, 44, 50, then maximum SPEED LIMIT (not including 98 or 99) should equal 65.                                                                                                                                 |
| A955            | If STATE NUMBER equals 01, 05, 06, 12, 13, 17, 18, 19, 21, 24, 26, 27, 28, 29, 33, 37, 39, 42, 45, 47, 51, 53, 54, 55, then maximum SPEED LIMIT (not including 98 or 99) should equal 70.                                                                         |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| A960            | If STATE NUMBER equals 04, 08, 20, 22, 23, 31, 35, <b>or</b> 38, then maximum SPEED LIMIT (not including 98 or 99) should equal 75.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| A961            | If STATE NUMBER equals 16, 30, 32, <b>40</b> , 46, 49, 56, then maximum SPEED LIMIT (not including 98 or 99) should equal 80.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| A962            | If STATE NUMBER equals 48, then maximum SPEED LIMIT (not including 98 or 99) should equal 85.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| A965            | If PSU equals MA, VT, NY, NJ, OR, then maximum SPEED LIMIT (not including 98 or 99) should equal 65.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| A970            | If PSU equals AL, CA, FL, GA, IA, IL, KY, MD, MI, MN, NC, OH, PA, SC, TN, VA, WA, WI, then maximum SPEED LIMIT (not including 98 or 99) should equal 70.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| A975            | If PSU equals AZ, CO, LA, ME, OK, UT, then maximum SPEED LIMIT (not including 98 or 99) should equal 75.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| A980            | If PSU equals SD, then maximum SPEED LIMIT (not including 98 or 99) should equal 80.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| A985            | If PSU equals TX, then maximum SPEED LIMIT (not including 98 or 99) should equal 85.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| AB1P            | If VEHICLE CONFIGURATION equals 01, then CARGO BODY TYPE must NOT equal 22.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| AC0A            | If RELATION TO JUNCTION (b) equals 02, 03, then the second TRAFFICWAY IDENTIFIER should not be all blank.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| AC1A            | If FIRST HARMFUL EVENT equals 54, then MANNER OF COLLISION OF THE FIRST HARMFUL EVENT should equal 11.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| AD0P            | If VEHICLE CONFIGURATION equals 04, 06-08, then VEHICLE TRAILING must not equal 0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| AE0P            | If VEHICLE CONFIGURATION equals 05 and CARGO BODY TYPE does not equal 12, then VEHICLE TRAILING must equal 0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| AE1P            | If VEHICLE CONFIGURATION equals 05-08, then <b>vPIC BODY CLASS must equal 066 (Truck-Tractor), or FINAL STAGE BODY CLASS must equal 066 (Truck-Tractor).</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| AF1P            | If VEHICLE CONFIGURATION equals 20, 21, then CARGO BODY TYPE must equal 22.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| AF2P            | If VEHICLE CONFIGURATION equals 20, 21, <b>then vPIC BODY CLASS must equal 009 (Van), 016 (Bus), 068 (Streetcar / Trolley), 073 (Bus-School Bus), 117 (Limousine), or FINAL STAGE BODY CLASS must equal 009 (Van), 016 (Bus), 068 (Streetcar / Trolley), 073 (Bus-School Bus), or 117 (Limousine).</b>                                                                                                                                                                                                                                                                                                                                                                                               |
| AH0P            | If VEHICLE CONFIGURATION does not equal 00 <b>or</b> 99, then <b>vPIC BODY CLASS should equal 009 (Van), 011 (Truck), 016 (Bus), 060 (Pickup), 066 (Truck-Tractor), 068 (Streetcar / Trolley), 073 (Bus - School Bus), 095 (Cargo Van), 108 (Motorhome), 111 (Step Van / Walk-in Van), 117 (Limousine), 126 (Off-road Vehicle - Farm Equipment), 127 (Off-road Vehicle - Construction Equipment), or FINAL STAGE BODY CLASS should equal 009 (Van), 011 (Truck), 016 (Bus), 060 (Pickup), 066 (Truck-Tractor), 068 (Streetcar / Trolley), 073 (Bus-School Bus), 095 (Cargo Van), 108 (Motorhome), 111 (Step Van / Walk-in Van), 117 (Limousine), or 997 Other (Specify:), or HM2 should equal 2.</b> |



| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AH1P            | If BUS USE equals 08, then <b>vPIC BODY CLASS</b> must equal <b>009 (Van), 016 (Bus), or 073 (Bus - School Bus), or FINAL STAGE BODY CLASS must equal 009 (Van), 016 (Bus), 073 (Bus - School Bus), 108 (Motorhome), or 997 Other (Specify:).</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| AH2P            | If BUS USE equals 06, then <b>vPIC BODY CLASS</b> should equal <b>009 (Van) or 016 (Bus), or FINAL STAGE BODY CLASS should equal 009 (Van) or 016 (Bus).</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| AK00            | If CARGO BODY TYPE equals 22, 96, then JACKKNIFE should equal 0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| AL0P            | If CARGO BODY TYPE equals 22, <b>then vPIC BODY CLASS must equal 009 (Van), 016 (Bus), 068 (Streetcar / Trolley), 073 (Bus-School Bus), or 117 (Limousine), or FINAL STAGE BODY CLASS must equal 009 (Van), 016 (Bus), 068 (Streetcar / Trolley), 073 (Bus-School Bus), or 117 (Limousine).</b>                                                                                                                                                                                                                                                                                                                                                                                                   |
| AL1P            | If SEQUENCE OF EVENTS equals 51, 62, 70, then VEHICLE TRAILING must not equal 0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| AL2P            | If SEQUENCE OF EVENTS equals 45, then WORK ZONE should equal 1-4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| AL3P            | If UNIT TYPE equals 2-4, then MOST HARMFUL EVENT must not equal 54 for this vehicle.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| AL5P            | If UNIT TYPE equals 1, then at least one event in the SEQUENCE OF EVENTS must equal the MOST HARMFUL EVENT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| AL7P            | If UNIT TYPE equals 2-4, then MOST HARMFUL EVENT should not equal 04-07, 16, 51, 72.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| AL8P            | If SEQUENCE OF EVENTS equals 51, 70, then JACKKNIFE must equal 2, 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| AL9P            | If there is one and only one parked vehicle (UNIT TYPE equals 2 or 3) in the crash, then MOST HARMFUL EVENT for the parked vehicle must not equal 14.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| AM0P            | If CARGO BODY TYPE does not equal 00 <b>or</b> 99, then <b>vPIC BODY CLASS should equal 009 (Van), 011 (Truck), 016 (Bus), 060 (Pickup), 066 (Truck-Tractor), 068 (Streetcar / Trolley), 073 (Bus - School Bus), 095 (Cargo Van), 108 (Motorhome), 111 (Step Van / Walk-in Van), 117 (Limousine), 126 (Off-road Vehicle - Farm Equipment), 127 (Off-road Vehicle - Construction Equipment), or FINAL STAGE BODY CLASS should equal 009 (Van), 011 (Truck), 016 (Bus), 060 (Pickup), 066 (Truck-Tractor), 068 (Streetcar / Trolley), 073 (Bus-School Bus), 095 (Cargo Van), 108 (Motorhome), 111 (Step Van / Walk-in Van), or 117 (Limousine), or 997 Other (Specify:), or HM2 should equal 2.</b> |
| AM1P            | If FIRST HARMFUL EVENT equals 54, or SEQUENCE OF EVENTS equals 54 for any vehicle, then one RELATED FACTORS-CRASH LEVEL must equal 014.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| AM2P            | If any SEQUENCE OF EVENTS equals 25 or 57, then TRAFFICWAY DESCRIPTION should equal 3, 6.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| AQ0P            | If REGISTRATION STATE equals 00, 92, then REGISTERED VEHICLE OWNER must equal 0, 5, 6.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| AR0P            | If SPECIAL USE equals 04, then REGISTERED VEHICLE OWNER must not equal 0, 1, 2, 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| AS0P            | If RELATED FACTORS-VEHICLE LEVEL equals 032, then REGISTERED VEHICLE OWNER must not equal 0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| AT00            | Any ATMOSPHERIC CONDITIONS 01-08, 10-12, 98, 99 can be used only once per crash.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>AT01</b>     | <b>Any ATMOSPHERIC CONDITIONS can be used only once per crash.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| AT20            | If <b>any</b> ATMOSPHERIC CONDITIONS equals 01-08, 10-12, then ATMOSPHERIC CONDITIONS must not <b>also</b> equal 99.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                          |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AT40            | If <i>any</i> ATMOSPHERIC CONDITIONS equals 01, <b>98, or 99</b> , then <b><i>only that one code and no other must be coded.</i></b>                                                                                                                          |
| AV0P            | If REGISTERED VEHICLE OWNER equals 3, 4, then REGISTRATION STATE must not equal 99.                                                                                                                                                                           |
| AZ20            | If UNIT TYPE equals 1, and DRIVER PRESENCE equals 0 or 9, then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 00.                                                                                                                     |
| AZ2P            | If FIRST HARMFUL EVENT does not equal 02-07, 16, 44, 51, 72, and CRITICAL EVENT-PRECRASH (EVENT) equals 14, and ATTEMPTED AVOIDANCE MANEUVER equals 01, then CRASH TYPE must equal 14 for the vehicle involved in the first harmful event.                    |
| AZ30            | If PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 00, then ATTEMPTED AVOIDANCE MANEUVER must equal 00.                                                                                                                                    |
| AZ50            | If PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 00, then PRE-IMPACT STABILITY must equal 0.                                                                                                                                             |
| AZ5P            | If CRITICAL EVENT-PRECRASH (EVENT) equals 70-73 for a vehicle involved in the FIRST HARMFUL EVENT, then RELATION TO JUNCTION (b) should equal 04 or 08.                                                                                                       |
| AZ60            | If PRE-IMPACT STABILITY equals 0, then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 00.                                                                                                                                             |
| AZ6P            | If any DRIVER MANEUVERED TO AVOID equals 00, then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must not equal 17.                                                                                                                              |
| AZ70            | If PRE-IMPACT LOCATION equals 0, then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 00.                                                                                                                                              |
| AZ7P            | If any DRIVER MANEUVERED TO AVOID equals 00 or 95 or 98 or 99, then only that one code and no other must be coded for this vehicle.                                                                                                                           |
| AZ80            | If PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 00, then PRE-IMPACT LOCATION must equal 0.                                                                                                                                              |
| <b>AZ81</b>     | <b><i>If PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 15, or CRITICAL EVENT - PRECRASH (EVENT) equals 10 or 11 for this vehicle, then PRE-IMPACT LOCATION should not equal 1 (Stayed in Original Travel Lane) for this vehicle.</i></b> |
| AZA0            | If PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 05 or 07, then TRAVEL SPEED must equal 000 for this vehicle.                                                                                                                            |
| AZA2            | If PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) does not equal 10, 11, or 12, then RELATED FACTORS - DRIVER LEVEL should not equal <b>048</b> .                                                                                                |
| AZA3            | If RELATED FACTORS - DRIVER LEVEL equals <b>048</b> , then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 10, 11, or 12.                                                                                                            |
| AZBP            | If any DRIVER MANEUVERED TO AVOID equals 03, then CRITICAL EVENT - PRECRASH (EVENT) should equal 87-89.                                                                                                                                                       |
| AZCP            | If any DRIVER MANEUVERED TO AVOID equals 05, then CRITICAL EVENT - PRECRASH (EVENT) should equal 80-85.                                                                                                                                                       |
| AZDQ            | If DRIVER MANEUVERED TO AVOID equals 04, then NUMBER OF VEHICLE FORMS SUBMITTED must be greater than 001.                                                                                                                                                     |

| <b>Error ID</b> | <b>Error Message</b>                                                                                    |
|-----------------|---------------------------------------------------------------------------------------------------------|
| AZEP            | If any DRIVER MANEUVERED TO AVOID equals 01, then CRITICAL EVENT - PRECRASH (EVENT) should equal 90-92. |

## B Series

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                     |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B10P            | If PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) does not equal 17, and ATTEMPTED AVOIDANCE MANEUVER equals 01, then DRIVER MANEUVERED TO AVOID should equal 00.           |
| B15P            | If CRITICAL EVENT-PRECRASH (EVENT) equals 91, and ATTEMPTED AVOIDANCE MANEUVER equals 00, 01, and the vehicle is involved in the FIRST HARMFUL EVENT, then CRASH TYPE should equal 15.   |
| B16P            | If CRITICAL EVENT-PRECRASH (EVENT) equals 90, and ATTEMPTED AVOIDANCE MANEUVER equals 01, and the vehicle is involved in the FIRST HARMFUL EVENT, then CRASH TYPE should equal 12 or 15. |
| B17P            | If CONDITION (IMPAIRMENT) AT TIME OF CRASH (D23) equals 09 for this driver, then CRITICAL EVENT: PRECRASH (EVENT) should not equal 08 for this driver's vehicle.                         |
| <b>B18P</b>     | <b><i>If CRITICAL EVENT – PRECRASH (EVENT) equals 70-73, then TRAFFICWAY DESCRIPTION must not equal 0 for this vehicle.</i></b>                                                          |
| BA0P            | If EJECTION equals 0, 7, 8, or 9, then EJECTION PATH must equal 0.                                                                                                                       |
| BB0P            | If EJECTION equals 1-3, then EJECTION PATH must equal 1-9.                                                                                                                               |
| BI0P            | If DRIVER'S LICENSE STATE equals 99, then COMPLIANCE WITH CDL ENDORSEMENTS must not equal 1, 2.                                                                                          |
| BJ0P            | If DRIVER PRESENCE equals 0, 9, then COMPLIANCE WITH CDL ENDORSEMENTS must be blank.                                                                                                     |
| BJ1P            | If UNIT TYPE equals 1, and DRIVER PRESENCE equals 0 or 9, then DRIVER DISTRACTED BY must equal 16.                                                                                       |
| BJ2P            | If UNIT TYPE equals 1, and DRIVER PRESENCE equals 1, then DRIVER DISTRACTED BY must not equal 16 or blank.                                                                               |
| BJ3P            | If UNIT TYPE equals 1, and DRIVER DISTRACTED BY equals 16, then DRIVER PRESENCE must equal 0 or 9.                                                                                       |
| BJ4P            | If any DRIVER DISTRACTED BY equals 03, then NUMBER OF OCCUPANTS must be greater than 01.                                                                                                 |
| BJ5P            | If UNIT TYPE equals 1 and HIT AND RUN equals 1, then DRIVER PRESENCE should not equal 0.                                                                                                 |
| BJ7P            | If any DRIVER DISTRACTED BY equals 00 or 16 or 17 or 18 or 19 or 92 or 93 or 96 or 99, then only that one code and no other must be used.                                                |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                             |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>BJ8P</b>     | <b><i>If DRIVER DISTRACTED BY equals 17, then STATE should equal GA, MN, MO, NV, NY, or SC.</i></b>                                                                                                                                              |
| BK0P            | If LICENSE COMPLIANCE WITH CLASS OF VEHICLE equals 1, then COMPLIANCE WITH CDL ENDORSEMENTS must not equal 1-3, 9.                                                                                                                               |
| BL0P            | If COMPLIANCE WITH CDL ENDORSEMENTS equals 1, and any RELATED FACTORS-DRIVER LEVEL equals 019, then LICENSE COMPLIANCE WITH CLASS OF VEHICLE must equal 3.                                                                                       |
| BN0P            | If DRIVER PRESENCE equals 0, 9, then COMMERCIAL MOTOR VEHICLE LICENSE STATUS must be blank.                                                                                                                                                      |
| BQ0P            | If METHOD OF DRUG DETERMINATION BY POLICE equals 8, then POLICE-REPORTED DRUG INVOLVEMENT must equal 0, 1, 8, 9.                                                                                                                                 |
| BR0P            | If METHOD OF DRUG DETERMINATION BY POLICE equals 1-7, then POLICE-REPORTED DRUG INVOLVEMENT must equal 0, 1, 8.                                                                                                                                  |
| BT0P            | If DRUG TEST STATUS equals 2, then any DRUG SPECIMEN must not equal 00 or 99 and any DRUG TEST RESULT must not equal 000 or 999.                                                                                                                 |
| BT1P            | If DRUG TEST STATUS equals 0, then there must exist only one DRUG SPECIMEN equal to 00 and one DRUG TEST RESULT equal to 000 for this person.                                                                                                    |
| BT2P            | If DRUG TEST STATUS equals 8, then there must exist only one DRUG SPECIMEN equal to 96 and one DRUG TEST RESULT equal to 095 for this person.                                                                                                    |
| BT3P            | If DRUG TEST STATUS equals 2, then at least one DRUG SPECIMEN must equal 01, 02, 11-15, 96, 97, 98, and one corresponding DRUG TEST RESULT must equal 001, 095, 100-295, 300-395, 400-495, 500-595, 600-695, 700-795, 800-895, 900-995, 996-998. |
| BT6P            | If DRUG TEST STATUS equals 9, then there must exist only one DRUG SPECIMEN equal to 99 and one DRUG TEST RESULT equal to 999 for this person.                                                                                                    |
| BT8P            | If DRUG TEST RESULT does not equal 996, then only one record with the same DRUG SPECIMEN and DRUG TEST RESULT must exist.                                                                                                                        |
| BY0P            | DRIVER'S ZIP CODE must be a valid code, blanks, 00000, <b>99998</b> , or 99999.                                                                                                                                                                  |
| BZ10            | If CRITICAL EVENT- PRECRASH (EVENT) equals 53, then AREAS OF IMPACT-INITIAL CONTACT POINT should not equal 12 for this vehicle.                                                                                                                  |
| BZ20            | If CRITICAL EVENT - PRECRASH (EVENT) equals 51, 52, then AREAS OF IMPACT-INITIAL CONTACT POINT should not equal 06 for this vehicle.                                                                                                             |
| BZ40            | If CRITICAL EVENT - PRECRASH (EVENT) equals 01, then at least one SEQUENCE OF EVENTS must equal 61 for this vehicle.                                                                                                                             |
| BZ50            | If CRITICAL EVENT - PRECRASH (EVENT) equals 12, and PRE-IMPACT LOCATION is not equal to 5, then at least one SEQUENCE OF EVENTS must equal 64 for this vehicle.                                                                                  |
| BZ51            | If CRITICAL EVENT - PRECRASH (EVENT) equals 80 and PRE-IMPACT LOCATION does not equal 4, then at least one PERSON TYPE should equal 5.                                                                                                           |
| BZ60            | If CRITICAL EVENT - PRECRASH (EVENT) equals 13, and PRE-IMPACT LOCATION is not equal to 5, then at least one SEQUENCE OF EVENTS must equal 63 for this vehicle.                                                                                  |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                             |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BZ70            | If CRITICAL EVENT - PRECRASH (EVENT) equals 14, then at least one SEQUENCE OF EVENTS must equal 71 for this vehicle.                                             |
| BZ80            | If MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 00, then CRASH TYPE must equal 00, 01-16, 92, 98, 99 for the vehicle in the FIRST HARMFUL EVENT.        |
| BZ90            | If CRASH TYPE equals 01-05, and PRE-IMPACT LOCATION is not equal to 0 or 5, then at least one SEQUENCE OF EVENTS prior to the FIRST HARMFUL EVENT must equal 63. |
| BZ91            | If CRASH TYPE equals 06-10, and PRE-IMPACT LOCATION is not equal to 0 or 5, then at least one SEQUENCE OF EVENTS prior to the FIRST HARMFUL EVENT must equal 64. |
| BZ92            | If CRASH TYPE equals 14, then at least one CRASH EVENTS-SEQUENCE OF EVENTS must equal 71 for this vehicle.                                                       |
| <b>BZ93</b>     | <b><i>If PRE-IMPACT LOCATION equals 4, then at least one SEQUENCE OF EVENTS for this vehicle must equal 63, 64, 71, or 79.</i></b>                               |

## C Series

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                    |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CB0P            | If REGISTERED VEHICLE OWNER equals 6, then DRIVER PRESENCE must equal 0.                                                                                                                |
| CC0P            | If COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 00, 99, then COMPLIANCE WITH CDL ENDORSEMENTS must not equal 1.                                                                       |
| CG0P            | If LICENSE COMPLIANCE WITH CLASS OF VEHICLE equals 0, then COMPLIANCE WITH CDL ENDORSEMENTS must not equal 1, 3.                                                                        |
| CI0P            | If VEHICLE TRAILING equals 1-4, then JACKKNIFE must not equal 0.                                                                                                                        |
| CJ00            | If PREVIOUS RECORDED CRASHES equals 98, then DRIVER'S LICENSE STATE should equal 09, 13, 28, 30, 35, 49.                                                                                |
| CJ01            | If any driver history counter is not equal to 99, then DRIVER'S LICENSE STATE must not be 96, 97, 98, or 99.                                                                            |
| CK0P            | If PERSON TYPE equals 07, then RELATED FACTORS-PERSON (NOT A MV OCCUPANT) LEVEL must not equal 009, 013, 069, 070, 087, 090, 094-097.                                                   |
| CL0P            | If PERSON TYPE equals 09, then any RELATED FACTORS-PERSON LEVEL (MV OCCUPANT) must not equal 021, 026, 028, 029, 033, 037, 040-042, 044, 045, 047, 051, 052, 056-070, 072-078, 080-083. |
| CM0P            | If PERSON TYPE equals 19, then RELATED FACTORS-PERSON LEVEL (NOT A MV OCCUPANT) must not equal 013, 069, 070, 090.                                                                      |

## D Series

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                    |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| D010            | If DRIVER'S LICENSE STATE equals 96, 97, then PREVIOUS RECORDED CRASHES should equal 99.                                                                                                                                |
| D020            | If DRIVER'S LICENSE STATE equals 96, 97, then all three Subfields of PREVIOUS RECORDED SUSPENSIONS AND REVOCATIONS should equal 99.                                                                                     |
| D030            | If DRIVER'S LICENSE STATE equals 96, 97, then PREVIOUS DWI CONVICTIONS should equal 99.                                                                                                                                 |
| D040            | If DRIVER'S LICENSE STATE equals 96, 97, then PREVIOUS SPEEDING CONVICTIONS should equal 99.                                                                                                                            |
| D050            | If DRIVER'S LICENSE STATE equals 96, 97, then PREVIOUS OTHER MOVING VIOLATION CONVICTIONS should equal 99.                                                                                                              |
| D060            | If NON-CDL LICENSE STATUS equals 1-4, 6, or COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 1-8, and PERSON TYPE equals 01, then AGE should not be less than 015.                                                        |
| D080            | If VIOLATION CHARGED equals 01-06, 09, 31-69, 81-91, 98, then RELATED FACTORS-DRIVER LEVEL should not equal <b>000 or 999</b> .                                                                                         |
| <b>D081</b>     | <b>If VIOLATIONS CHARGED equals 01-04, 09, 51, 52, 67, 81, 82, 84, 89, or 98, then RELATED FACTORS-DRIVER LEVEL should not equal 000 or 999.</b>                                                                        |
| D090            | If VIOLATIONS CHARGED equals 11-19, and PERSON TYPE equals 01, 03, then POLICE-REPORTED ALCOHOL INVOLVEMENT should equal 1, or POLICE-REPORTED DRUG INVOLVEMENT should equal 1.                                         |
| D093            | If any VEHICLE LICENSE PLATE NUMBER that does not equal 0000000000, 9999999999, or 9999999998, then VEHICLE LICENSE PLATE NUMBER must be unique within a crash.                                                         |
| D100            | If NON-CDL LICENSE STATUS equals 9, then all driver history counters PREVIOUS RECORDED CRASHES should equal 99.                                                                                                         |
| D110            | If NON-CDL LICENSE STATUS equals 9, then all driver history counters should equal 99.                                                                                                                                   |
| D120            | If NON-CDL LICENSE STATUS equals 9, then all driver history counters PREVIOUS DWI CONVICTIONS should equal 99.                                                                                                          |
| D130            | If NON-CDL LICENSE STATUS equals 9, then all driver history counters PREVIOUS SPEEDING CONVICTIONS should equal 99.                                                                                                     |
| D140            | If NON-CDL LICENSE STATUS equals 9, then all driver history counters PREVIOUS OTHER MOVING VIOLATION CONVICTIONS should equal 99.                                                                                       |
| D150            | If the sum of all counters less than 98 is greater than five but less than fifteen, then DATE OF <b>MOST RECENT</b> CRASH, SUSPENSION, CONVICTION should not equal DATE OF <b>OLDEST</b> CRASH, SUSPENSION, CONVICTION. |
| D160            | If NON-CDL LICENSE STATUS does not equal 9, or COMMERCIAL MOTOR VEHICLE LICENSE STATUS does not equal 99, then DRIVER'S ZIP CODE should not equal <b>99998 or 99999</b> .                                               |
| D170            | If DRIVER'S LICENSE STATE does not equal 93-99, Then DRIVER'S ZIP CODE should not equal <b>99998 or 99999</b> .                                                                                                         |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                         |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| D180            | If DRIVER LICENSE STATE equals 95-97, then DRIVER ZIP CODE should equal <b>00000</b> .                                                                                                                       |
| D260            | If NON-CDL LICENSE STATUS equals 9, or COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 99, then COMPLIANCE WITH LICENSE RESTRICTIONS should not equal 0.                                                      |
| D270            | If <b>POWER UNIT GVWR_From and POWER UNIT GVWR_To equals 17-18, or VEHICLE CONFIGURATION equals 21, or HM2 equals 2, then COMMERCIAL MOTOR VEHICLE LICENSE STATUS should not equal 00.</b>                   |
| D280            | If VEHICLE CONFIGURATION equals 05-08, 21, or HM1 equals 2, then COMMERCIAL MOTOR VEHICLE LICENSE STATUS should not equal 00.                                                                                |
| D300            | If HM2 equals 2, then COMMERCIAL MOTOR VEHICLE LICENSE STATUS should not equal 00 or 99.                                                                                                                     |
| D310            | If HM2 equals 2, then COMPLIANCE WITH CDL ENDORSEMENTS should equal 1-3.                                                                                                                                     |
| D320            | If DRIVER'S LICENSE STATE does not equal 93-99, then DRIVER'S ZIP CODE should equal <b>99998</b> , 99999, or be a valid ZIP code for DRIVER'S LICENSE STATE.                                                 |
| D330            | If DRIVER PRESENCE equals 0, and REGISTRATION STATE is not equal to 00, 92, 99, then REGISTERED VEHICLE OWNER should equal 3-6.                                                                              |
| D340            | If NON-CDL LICENSE STATUS equals 1-4, 6, 9, or COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 01-08, 99, then LICENSE COMPLIANCE WITH CLASS OF VEHICLE should not equal 0.                                   |
| D350            | If VIOLATIONS CHARGED equals 71, then NON-CDL LICENSE STATUS should not equal 0, 3, 6, 9.                                                                                                                    |
| D380            | If NON-CDL LICENSE STATUS equals 9, then LICENSE COMPLIANCE WITH CLASS OF VEHICLE should equal 1 or 9.                                                                                                       |
| D390            | If NON-CDL LICENSE STATUS equals 0, then LICENSE COMPLIANCE WITH CLASS OF VEHICLE should not equal 2, 3, 8, 9.                                                                                               |
| D400            | If NON-CDL LICENSE STATUS equals 0-4, then LICENSE COMPLIANCE WITH CLASS OF VEHICLE should not equal 3, 8, 9.                                                                                                |
| D410            | If LICENSE COMPLIANCE WITH CLASS OF VEHICLE equals 0, then COMPLIANCE WITH CDL ENDORSEMENTS should not equal 1-3, 9.                                                                                         |
| D420            | If COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 00, then COMPLIANCE WITH CDL ENDORSEMENTS should not equal 1-3.                                                                                            |
| D430            | If COMPLIANCE WITH CDL ENDORSEMENTS equals 1-3, then COMMERCIAL MOTOR VEHICLE LICENSE STATUS should not equal 00.                                                                                            |
| D440            | If COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 00, then <b>POWER UNIT GVWR_From and POWER UNIT GVWR_To should not be in 17-18, VEHICLE CONFIGURATION should not equal 21,</b> and HM2 should not equal 2. |
| D450            | If COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 00, then VEHICLE CONFIGURATION should not equal 05-08, 21, and HM2 should not equal 2.                                                                     |
| D460            | If COMMERCIAL MOTOR VEHICLE LICENSE STATUS equals 99, then COMPLIANCE WITH CDL ENDORSEMENTS should equal 0, 3, 9.                                                                                            |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| D470            | If any RELATED FACTORS-DRIVER LEVEL equals 037, then at least one RELATED FACTORS-CRASH LEVEL should equal 020.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| D480            | If DRIVER'S LICENSE STATE equals 09, 28, 30, 35, 49, then PREVIOUS RECORDED CRASHES should equal 98.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| D500            | If VIOLATIONS CHARGED equals 05, then at least one RELATED FACTORS-CRASH LEVEL should equal 020.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| D501            | If at least one VIOLATIONS CHARGED equals 04, then at least one RELATED FACTORS - DRIVER LEVEL must equal 006 <b>or</b> 036.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| D530            | If any VIOLATIONS CHARGED equal 36 for a vehicle involved in the FIRST HARMFUL EVENT, then RELATION TO JUNCTION (b) should equal 06.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| D560            | If VIOLATIONS CHARGED equals 66, then <b>vPIC BODY CLASS should equal 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport/Adventure/Supermoto/On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 104 (Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle).</b> |
| D570            | If any VIOLATIONS CHARGED equal 83, then not all occupants of this vehicle should have RESTRAINT SYSTEM USE Subfield 1-Type of Restraint System in Use equal to 01-06, 08, 10-12.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| D580            | If VIOLATIONS CHARGED equals 85, then HM1 should equal 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| D5A0            | If VIOLATIONS CHARGED equals 21-25, 29, then SPEEDING RELATED must equal 2-5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| D5B0            | If any VIOLATIONS CHARGED equal 11-13, 18, 19, then at least one CONDITION (IMPAIRMENT) AT TIME OF CRASH (D23) should equal 09.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| D5E0            | If any VIOLATIONS CHARGED equal 00 or 97, then only that one code and no other must be coded for this driver.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| D600            | If DRIVER HEIGHT/INCHES is greater than 11, then DRIVER HEIGHT/INCHES should not be less than 48.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| D610            | If DRIVER HEIGHT/FEET is not blank and not equal to 0, then DRIVER HEIGHT/FEET should not be less than 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| D620            | If NON-CDL LICENSE TYPE equals 7, then AGE (for the driver) should equal 014-016.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| D630            | If NON-CDL LICENSE TYPE equals 2, then AGE (for the driver) should equal 015-017.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| D640            | If AGE equals 014-017, and PERSON TYPE equals 01, then NON-CDL LICENSE TYPE should equal 2, 7.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| D650            | If AGE equals 018-120, and PERSON TYPE equals 01, then NON-CDL LICENSE TYPE should equal 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| D660            | If VIOLATIONS equals 55, then SCHOOL BUS RELATED must equal 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |



| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                              |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| D680            | If NON-CDL LICENSE TYPE does not equal 0, 9, then NON-CDL LICENSE STATUS should not equal 0, 9.                                                                                   |
| D690            | If NON-CDL LICENSE TYPE equals 2, 7, and COMPLIANCE WITH LICENSE RESTRICTIONS equals 2, then RELATED FACTORS-DRIVER LEVEL should equal 073, 074.                                  |
| D700            | If NON-CDL LICENSE TYPE equals 1, and COMPLIANCE WITH LICENSE RESTRICTIONS equals 2, then RELATED FACTORS-DRIVER LEVEL should equal 074.                                          |
| D710            | If DRIVER'S LICENSE STATE equals 02, 04, 09, 15, 20, 30, 38, 40, then NON-CDL LICENSE TYPE should not equal 2.                                                                    |
| D730            | If RELATED FACTORS-DRIVER LEVEL equals 073, then COMPLIANCE WITH LICENSE RESTRICTIONS should equal 2, and NON-CDL LICENSE TYPE should equal 2, 7.                                 |
| D733            | If at least one RELATED FACTORS - DRIVER LEVEL equals 060 and PERSON TYPE equals 01, then ALCOHOL TEST RESULT should equal 995 or at least one DRUG TEST RESULT should equal 095. |

## E Series

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                    |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| E01P            | If NOTIFICATION TIME EMS equals 9998, then ARRIVAL TIME EMS must equal 9998, and EMS TIME AT HOSPITAL must equal 8888 or 9998.                                                                          |
| E02P            | If ARRIVAL TIME EMS equals 9998, then EMS TIME AT HOSPITAL must equal 8888 or 9998.                                                                                                                     |
| E03P            | If ARRIVAL TIME EMS equals 8888, then NOTIFICATION TIME EMS and EMS TIME AT HOSPITAL must equal 8888.                                                                                                   |
| E04P            | If NOTIFICATION TIME EMS equals 8888, then ARRIVAL TIME EMS and EMS TIME AT HOSPITAL must equal 8888.                                                                                                   |
| E05P            | If EMS TIME AT HOSPITAL equals 9997, then ARRIVAL TIME EMS must equal 9997.                                                                                                                             |
| E06P            | If ARRIVAL TIME EMS equals 9997, then EMS TIME AT HOSPITAL must equal 9997.                                                                                                                             |
| E07P            | If ARRIVAL TIME EMS equals 9997, then NOTIFICATION TIME EMS must not equal 8888, 9998.                                                                                                                  |
| E08P            | If NOTIFICATION TIME EMS is not 8888, 9998, and EMS TIME AT HOSPITAL is not 8888, 9996, 9997, 9998, then ARRIVAL TIME EMS must not equal 9997 or 9998.                                                  |
| E09P            | If ARRIVAL TIME EMS equals 0000-2359, CRASH TIME-hour equals ARRIVAL TIME EMS-hour, and ARRIVAL TIME EMS-minute is greater than CRASH TIME-minute; then NOTIFICATION TIME EMS-hour should not equal 99. |

## F Series

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                     |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------|
| FA0F            | If FIRST HARMFUL EVENT equals blank, then case status is flawed.                                                                         |
| FA1F            | CRASH TYPE for all in-transport vehicles not involved in the FIRST HARMFUL EVENT must equal 98.                                          |
| FD0F            | If DRIVER PRESENCE is blank, then case status is flawed.                                                                                 |
| FP0F            | If PERSON TYPE is blank, then case status is flawed.                                                                                     |
| FP1F            | If AREAS OF IMPACT - INITIAL CONTACT POINT equals blank, then case status is flawed.                                                     |
| FP2F            | If UNIT TYPE equals 1, and CRASH TYPE equals blank, then case status is flawed.                                                          |
| FP3F            | If UNIT TYPE is blank, then case status is flawed.                                                                                       |
| FP4F            | If CRASH DATE is blank, then case status is flawed.                                                                                      |
| FP5F            | If CRASH TIME is blank, then case status is flawed.                                                                                      |
| FP6F            | If UNIT TYPE equals 1, and CRITICAL EVENT - PRECRASH (CATEGORY) equals blank, then case status is flawed.                                |
| FP7F            | If UNIT TYPE equals 1, and CRITICAL EVENT - PRECRASH (EVENT) equals blank, then case status is flawed.                                   |
| FP8F            | If INJURY SEVERITY is blank, then case status is flawed.                                                                                 |
| FP9F            | If PERSON TYPE equals 05, 06, 07, <b>11, 12, or 13</b> , and the PEDESTRIAN/ BIKE - CRASH TYPE equals blank, then case status is flawed. |

## G Series

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| G01P            | If STATE is ____ and GLOBAL POSITION - LATITUDE (degrees) is not equal to 77, 88, 99, then LATITUDE (degrees) must be equal to, or greater than ( <u>1d</u> ) and LATITUDE (degrees) must not be greater than ( <u>2d</u> ).        |
| G02P            | If STATE is ____ and GLOBAL POSITION - LATITUDE (degrees) equals ( <u>1d</u> ), then LATITUDE (minutes) must be equal to, or greater than ( <u>1s</u> ).                                                                            |
| G03P            | If STATE is ____ and GLOBAL POSITION - LATITUDE (degrees) equals ( <u>2d</u> ), then LATITUDE (minutes) must not be greater than ( <u>2s</u> ).                                                                                     |
| G04P            | If STATE is ____ and GLOBAL POSITION - LONGITUDE (degrees) is not equal to 777, 888, 999, then LONGITUDE (degrees) must be equal to, or greater than, ( <u>3d</u> ) and LONGITUDE (degrees) must not be greater than ( <u>4d</u> ). |
| G05P            | If STATE is ____ and GLOBAL POSITION - LONGITUDE (degrees) equals ( <u>3d</u> ), then LONGITUDE (minutes) must be equal to, or greater than ( <u>3s</u> ).                                                                          |
| G06P            | If STATE is ____ and GLOBAL POSITION - LONGITUDE (degrees) equals ( <u>4d</u> ), then LONGITUDE (minutes) must not be greater than ( <u>4s</u> ).                                                                                   |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                             |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------|
| G07P            | If any part of GLOBAL POSITION - LATITUDE (degrees, minutes, or seconds) is all 8s, then all parts of LATITUDE must be all 8s.   |
| G08P            | If any part of GLOBAL POSITION - LONGITUDE (degrees, minutes, or seconds) is all 8s, then all parts of LONGITUDE must be all 8s. |
| G09P            | If any part of GLOBAL POSITION - LATITUDE (degrees, minutes, or seconds) is all 9s, then all parts of LATITUDE must be all 9s.   |
| G0AP            | If any part of GLOBAL POSITION - LONGITUDE (degrees, minutes, or seconds) is all 7s, then all parts of LONGITUDE must be all 7s. |
| G0BP            | If any part of GLOBAL POSITION - LATITUDE (degrees, minutes, or seconds) is all 7s, then all parts of LATITUDE must be all 7s.   |
| G10P            | If any part of GLOBAL POSITION - LONGITUDE (degrees, minutes, or seconds) is all 9s, then all parts of LONGITUDE must be all 9s. |
| G11P            | If any part of GLOBAL POSITION - LATITUDE (degrees, minutes, or seconds) is blank, then all parts of LATITUDE must be blank.     |
| G12P            | If any part of GLOBAL POSITION - LONGITUDE (degrees, minutes, or seconds) is blank, then all parts of LONGITUDE must be blank.   |

## P Series

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                              |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P010            | If PERSON TYPE equals 01, then AGE should not be less than 012.                                                                                                                   |
| P01F            | If RESTRAINT SYSTEM USE Subfield-1 Type of Restraint System in Use equals 01-06, 08, <b>or</b> 10-12, then EJECTION should equal 0 or 7.                                          |
| P020            | If PERSON TYPE equals 02, 03, 09, and RESTRAINT SYSTEM USE Subfield-1 Type of Restraint System in Use equals 04, 10-12, then AGE should be less than 010, or equal to 998 or 999. |
| P030            | If SPECIAL USE is not equal to 21 and PERSON TYPE equals 01, then SEATING POSITION should not equal 12-19.                                                                        |
| P040            | If PERSON TYPE equals 02, 09, then SEATING POSITION should not equal 11.                                                                                                          |
| P050            | If EJECTION equals 1, then RESTRAINT SYSTEM USE Subfield-1 Type of Restraint System in Use should not equal 01-06, 08, 10-12.                                                     |
| P060            | If SEATING POSITION equals 18, 28, 38, 48, 50-54, then RESTRAINT SYSTEM USE Subfield-1 Type of Restraint System in Use should not equal 01, 03.                                   |
| P061            | If SEATING POSITION equals 55 or 56, then RESTRAINT SYSTEM USE Subfield 1-Type of Restraint System in Use must equal 20.                                                          |
| P062            | If SEATING POSITION equals 56, then PERSON TYPE must equal 02.                                                                                                                    |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P071            | If PERSON TYPE equals 02, 04-07, 10, <b>11, 12, or 13</b> , and INJURY SEVERITY does not equal 4, then ALCOHOL TEST STATUS should not equal 9, and ALCOHOL TEST TYPE should not equal 99, and ALCOHOL TEST RESULT should not equal 999.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| P072            | If PERSON TYPE equals 02, 03, and INJURY SEVERITY equals 0, and ALCOHOL TEST RESULT equals 996, then POLICE-REPORTED ALCOHOL INVOLVEMENT should equal 0, 8.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| P073            | If PERSON TYPE equals 02, 04-07, 10, <b>11, 12, or 13</b> , and INJURY SEVERITY does not equal 4, then DRUG TEST STATUS should not equal 9, and any DRUG SPECIMEN should not equal 99, and any DRUG TEST RESULTS should not equal 999.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| P074            | If PERSON TYPE equals 02, 04-07, 10, <b>11, 12, or 13</b> , and INJURY SEVERITY does not equal 4, then ALCOHOL TEST STATUS must not equal 8, ALCOHOL TEST TYPE must not equal 95, and ALCOHOL TEST RESULT must not equal 995.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| P075            | If PERSON TYPE equals 02, 04-07, 10, <b>11, 12, 13</b> , or 19, and INJURY SEVERITY does not equal 4, then DRUG TEST STATUS must not equal 8, any DRUG SPECIMEN must not equal 96, and any DRUG TEST RESULTS must not equal 095.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>P076</b>     | <b>If ALCOHOL TEST Subfield 2 - Test Type equals 02, 10, or 11, then POLICE REPORTED ALCOHOL INVOLVEMENT should not equal 8 or 9, and METHOD OF ALCOHOL DETERMINATION BY POLICE should equal 1 or 2.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>P077</b>     | <b>If INJURY SEVERITY equals 4, and DIED AT SCENE/EN ROUTE equals 7 or 8, then ALCOHOL TEST Subfield 2 - Test Type should not equal 02, 10, or 11.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>P078</b>     | <b>If INJURY SEVERITY equals 4, then ALCOHOL TEST Subfield 2 - Test Type should not equal 02, 10, or 11.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| P090            | If INJURY SEVERITY equals 0, then TRANSPORTED TO FIRST MEDICAL FACILITY BY must equal 0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| P091            | If TRANSPORTED TO FIRST MEDICAL FACILITY BY equals 1, 3, 5, then EMS TIME AT HOSPITAL should not equal 8888, 9997, 9998.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| P093            | If all persons TRANSPORTED TO FIRST MEDICAL FACILITY BY equals 2, <b>or 6</b> , then NOTIFICATION TIME EMS, ARRIVAL TIME EMS, EMS TIME AT HOSPITAL must equal 8888.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| P094            | If EJECTION equals 8, then SEATING POSITION must equal 55 or 56, or <b>vPIC BODY CLASS must equal 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport/Adventure/Supermoto/On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 104 (Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle).</b> |
| P095            | If TRANSPORTED TO FIRST MEDICAL FACILITY BY equals 0 for every person in the case, then EMS TIME AT HOSPITAL must not equal 0000-2399, 9999.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P110            | If METHOD OF ALCOHOL DETERMINATION BY POLICE equals 1-5, 8, then POLICE-REPORTED ALCOHOL INVOLVEMENT should equal 0, 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| P130            | If <b>vPIC BODY CLASS equals 011 (Truck), 016 (Bus), 068 (Streetcar / Trolley), 73 (Bus-School Bus), 066 (Truck-Tractor), 095 (Cargo Van), 111 (Step Van / Walk-in Van), 117 (Limousine), 126 (Off-road Vehicle - Farm Equipment), 127 (Off-road Vehicle - Construction Equipment), or FINAL STAGE BODY CLASS equals 011 (Truck), 016 (Bus), 068 (Streetcar / Trolley), 73 (Bus-School Bus), 066 (Truck-Tractor), 095 (Cargo Van), 111 (Step Van / Walk-in Van), or 117 (Limousine), and POWER UNIT GVWR_from and GVWR_to equals 13, 14, 15, 16, 17, or 18, and PERSON TYPE equals 01 or 03, and INJURY SEVERITY equals 4, then FATAL INJURY AT WORK should equal 1.</b>                                                                                                         |
| P140            | If POLICE-REPORTED DRUG INVOLVEMENT equals 8, 9, then METHOD OF DRUG DETERMINATION BY POLICE should equal 8.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| P150            | If POLICE-REPORTED DRUG INVOLVEMENT equals 1, and METHOD OF DRUG DETERMINATION BY POLICE equals 2, then DRUG TEST STATUS should not equal 0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| P160            | If POLICE-REPORTED DRUG INVOLVEMENT equals 1, and METHOD OF DRUG DETERMINATION BY POLICE equals 2, then not all DRUG TEST RESULTS should equal 001.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| P170            | If METHOD OF DRUG DETERMINATION BY POLICE equals 1-7, then POLICE-REPORTED DRUG INVOLVEMENT should equal 0, 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| P1A0            | If AGE is less than 012, and INJURY SEVERITY equals 4, then FATAL INJURY AT WORK should equal 0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| P200            | If POLICE-REPORTED ALCOHOL INVOLVEMENT equals 8, 9, then METHOD OF ALCOHOL DETERMINATION BY POLICE should equal 9.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| P260            | If SEATING POSITION equals 18, 19, or 99, then AIR BAG DEPLOYED should equal 20, 98, 99.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>P270</b>     | <b>If SEATING POSITION equals 21-23, 28, 29, 31-33, 38, 39, 41-43, 48, 49, 50, 54-56, 98, or 99, then AIR BAG DEPLOYED must not equal 01.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>P280</b>     | <b>If AIR BAG DEPLOYED equals 01, then SEATING POSITION must equal 11-19.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| P290            | If AIR BAG DEPLOYED equals 01-03, 07-09, and <b>vPIC BODY CLASS equals 001 (Convertible/Cabriolet), 002 (Minivan), 003 (Coupe), 005 (Hatchback/Liftback/Notchback), 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 008 (Crossover Utility Vehicle (CUV)), 009 (Van), 010 (Roadster), 011 (Truck), 013 (Sedan/Saloon), 015 (Wagon), 060 (Pickup), 117 (Limousine), 119 (Sport Utility Truck (SUT)), or FINAL STAGE BODY CLASS equals 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 008 (Crossover Utility Vehicle (CUV)), 009 (Van), 011 (Truck), 015 (Wagon), 060 (Pickup), 117 (Limousine), or 119 (Sport Utility Truck (SUT)), and VEHICLE MODEL YEAR equals 1998 or newer, then SEATING POSITION should equal 11, 13, 21, 23, 31, or 33.</b> |
| P300            | If POLICE-REPORTED ALCOHOL INVOLVEMENT equals 1, and INJURY SEVERITY equals 4, then ALCOHOL TEST STATUS should not equal 0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| P340            | If SEATING POSITION equals 50, 52-54, then RESTRAINT SYSTEM USE Subfield-1 Type of Restraint System in Use should equal 20.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                           |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P400            | If METHOD OF ALCOHOL DETERMINATION BY POLICE equals 1 or 2, then ALCOHOL TEST Subfield 1-Test Status must be 2.                                                                                                                                                                                                |
| P401            | If METHOD OF DRUG DETERMINATION BY POLICE equals 1, then DRUG TOXICOLOGY RESULTS Subfield 1-Test Status must be 2.                                                                                                                                                                                             |
| P50P            | If DIED AT SCENE/EN ROUTE equals 7, then TRANSPORTED TO FIRST MEDICAL FACILITY BY must equal 0.                                                                                                                                                                                                                |
| P510            | If EMS TIME AT HOSPITAL equals 8888, 9997, 9998, then DIED AT SCENE/EN ROUTE should not equal 8 for any PERSON.                                                                                                                                                                                                |
| P51P            | If DIED AT SCENE/EN ROUTE equals 8, then TRANSPORTED TO FIRST MEDICAL FACILITY BY must equal 1-6.                                                                                                                                                                                                              |
| P520            | If CRASH DATE and DEATH DATE are the same, and CRASH TIME and DEATH TIME are the same, then TRANSPORTED TO FIRST MEDICAL FACILITY BY should equal 0 and DIED AT SCENE/EN ROUTE should equal 7.                                                                                                                 |
| P52P            | If DIED AT SCENE/EN ROUTE equals 9, then TRANSPORTED TO FIRST MEDICAL FACILITY BY must equal 8 or 9.                                                                                                                                                                                                           |
| P530            | If EMS TIME AT HOSPITAL equals 9996, then DIED AT SCENE/EN ROUTE must equal 8 for at least one person.                                                                                                                                                                                                         |
| P53P            | If INJURY SEVERITY equals 0-3, 5, 6, then DIED AT SCENE/EN ROUTE must equal 0.                                                                                                                                                                                                                                 |
| P54P            | If DIED AT SCENE/EN ROUTE equals 8, then EMS TIME AT HOSPITAL should not equal 8888, 9997, 9998.                                                                                                                                                                                                               |
| P55P            | If TRANSPORTED TO FIRST MEDICAL FACILITY BY equals 9, then DIED AT SCENE/EN ROUTE must equal 0, 9.                                                                                                                                                                                                             |
| P56P            | If DIED AT SCENE/EN ROUTE equals 7, then DEATH TIME should be within 30 minutes of the CRASH TIME.                                                                                                                                                                                                             |
| PB00            | If PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 110-910, then at least one SEQUENCE OF EVENTS for the striking vehicle must equal 08 or 15.                                                                                                                                                         |
| PB02            | If PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLE equals 111-980, then at least one SEQUENCE OF EVENTS for the striking vehicle must equal 09.                                                                                                                                                                  |
| PB04            | If PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN for a person involved in the first harmful event equals 211, 212, 461, 465, 680, 830, 890, 900 or 910, then RELATION TO JUNCTION (b) must not equal 02. Note: this edit is restricted to vehicles which are involved in only one event with pedestrian(s). |
| PB05            | If PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN for a person involved in the first harmful event equals 311, 312 or 313, then RELATION TO TRAFFICWAY must equal 01 or 11. Note: this edit is restricted to vehicles which are involved in only one event with pedestrian(s).                               |
| PB06            | If PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 730, then TRAFFIC CONTROL DEVICE for the striking vehicle must equal 01-03.                                                                                                                                                                         |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                                          |
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| PB07            | If PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLE for a person involved in the first harmful event equals 311, 312, 313, 321, 322, or 323, then RELATION TO JUNCTION (b) must equal 04 or 08. Note: this edit is restricted to vehicles which are involved in only one event with bicyclist(s).                                |
| PB08            | If PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLE for a person involved in the first harmful event equals 141-144, 147, 151-157 or 159, then RELATION TO JUNCTION (b) must equal 02 or 03. Note: this edit is restricted to vehicles which are involved in only one event with bicyclist(s).                                   |
| PB09            | If PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLE equals 141, 143, 151-158, 217 or 218, then TRAFFIC CONTROL DEVICE for the striking vehicle must not equal 00.                                                                                                                                                                |
| PB10            | If PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLE equals 151, 156, 157, 217 or 218, then TRAFFIC CONTROL DEVICE for the striking vehicle must equal 01- <b>03</b> .                                                                                                                                                            |
| PB11            | If PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLE equals 154, then TRAFFIC CONTROL DEVICE for the striking vehicle must equal 01-04, 08.                                                                                                                                                                                       |
| PB12            | If PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN for a person involved in the first harmful event equals 510, 520 or 590, then RELATION TO TRAFFICWAY must not equal 01 or 11. Note: this edit is restricted to vehicles which are involved in only one event with pedestrian(s).                                          |
| PB15            | If PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 910, then at least one NON-MOTORIST ACTION/CIRCUMSTANCES must equal 03.                                                                                                                                                                                            |
| PB16            | If PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLIST equals 142, 144, 147, 153, 155, 156, 157, 159, 311, 312, 313, 318, 319, or 357, then at least one NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must equal 02.                                                                                                                   |
| PB17            | If PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN for a person involved in the first harmful event equals 211-214, or 219, then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 08, 09, 13 or 98. Note: this edit is restricted to vehicles which are involved in only one event with pedestrian(s). |
| PB18            | If PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 742, then at least one NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must equal 01.                                                                                                                                                                                      |
| PB19            | If NON-MOTORIST ACTION/CIRCUMSTANCES equals 08, then PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN must not equal 510, 520, 590, 830, or 890.                                                                                                                                                                              |
| PB20            | If PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 510, 520, or 590, then at least one NON-MOTORIST ACTION/CIRCUMSTANCES must equal 02.                                                                                                                                                                               |
| PB21            | If PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLE equals 160, then TRAFFIC CONTROL DEVICE for the striking vehicle should equal 00.                                                                                                                                                                                            |
| PB22            | If SCHOOL BUS RELATED equals 1, and PERSON TYPE equals 05, <b>11, 12, or 13</b> , then PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN should equal 342.                                                                                                                                                                     |
| PB23            | If PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 342, and PERSON TYPE equals 05, <b>11, 12, or 13</b> , then SCHOOL BUS RELATED should equal 1.                                                                                                                                                                     |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                     |
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| PB24            | If PERSON TYPE equals 05, <b>11, 12, or 13</b> , and NON-MOTORIST LOCATION AT TIME OF CRASH equals 14, 16, 20, 21, 22, 24, or 25, then PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN should equal 230, 320, 330, 410, 420, 430, 440, 459, 510, 520, 590, 830, or 890. |
| PB25            | If PERSON TYPE equals 05, <b>11, 12, or 13</b> , and NON-MOTORIST LOCATION AT TIME OF CRASH equals 01-03 or 09, then PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN should equal 690, 710, 730, 741, 742, 760, 770, 781, 782, 791, 792, 794, 795, or 799.              |
| PB26            | If NON-MOTORIST CONTRIBUTING CIRCUMSTANCES equals 02, and PERSON TYPE equals 06 or 07, then PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLIST should equal 142, 144, 147, 153, 155, 156, 157, 159, 311, 312, 313, 318, 319, or 357.                                        |
| PB27            | If NON-MOTORIST ACTION/CIRCUMSTANCES equals 05, and PERSON TYPE equals 05, <b>11, 12, or 13</b> , then PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN should equal 410 or 420.                                                                                         |
| PB28            | If NON-MOTORIST ACTION/CIRCUMSTANCES equals 06, and PERSON TYPE equals 05, <b>11, 12, or 13</b> , then PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN should equal 430 or 440.                                                                                         |
| PB29            | If NON-MOTORIST ACTION/CIRCUMSTANCES equals 04, <b>and does not also equal 03</b> , and PERSON TYPE equals 05, <b>11, 12, or 13</b> , then PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN should equal 410, 420, 430, 440, or 459.                                     |
| PB30            | If PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 220, then at least one DRIVER PRESENCE must equal 0 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.                                                 |
| PB31            | If PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLIST equals 147, 157, or 357, then at least one DRIVER'S VISION OBSCURED BY must equal 06 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.                        |
| PB32            | If PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 742, then at least one DRIVER'S VISION OBSCURED BY must not equal 00 or 95 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.                          |
| PB33            | If PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLIST equals 156, then DRIVER'S VISION OBSCURED BY for the striking vehicle must not equal 06.                                                                                                                              |
| PB34            | If NUMBER OF FORMS SUBMITTED FOR PERSONS NOT IN MOTOR VEHICLES equals 01, and FIRST HARMFUL EVENT equals 08, and RELATION TO JUNCTION (b) equals 02, then PEDESTRIAN/ BIKE TYPING - CRASH TYPE - PEDESTRIAN must not equal 320, 330, 360, 680, 830, 890, 900, or 910.    |
| PB35            | If NUMBER OF FORMS SUBMITTED FOR PERSONS NOT IN MOTOR VEHICLES equals 01, and FIRST HARMFUL EVENT equals 08, and RELATION TO JUNCTION (b) equals 02, then PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN must equal 1.                                            |
| PB36            | If PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 250, then PERSON TYPE must equal <b>11, 12, or 13</b> .                                                                                                                                                       |
| PB37            | If PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 311, 312, or 313, then at least one NON-MOTORIST ACTION/CIRCUMSTANCES must equal 08 or 10.                                                                                                                    |



| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                                                                                                    |
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| PB38            | If PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 410 or 420, then at least one NON-MOTORIST ACTION/CIRCUMSTANCES must equal 05.                                                                                                                                                                                                                                               |
| PB39            | If PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 430 or 440, then at least one NON-MOTORIST ACTION/CIRCUMSTANCES must equal 06.                                                                                                                                                                                                                                               |
| PB40            | If PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLE equals 610, then at least one PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 08, 09, or 13 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.                                                                                                           |
| PB41            | If PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLIST equals 215, then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 08 or 09 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.                                                                                                                           |
| PB42            | If PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLIST equals 111, 211, or 212, then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 11, 16, or 17 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.                                                                                                         |
| PB43            | If PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLIST equals 112, 151, 213, 214, 217, or 218, then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 10, 16, or 17 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.                                                                                          |
| PB44            | If PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 240, then EMERGENCY MOTOR VEHICLE USE should equal 2-6 for at least one vehicle.                                                                                                                                                                                                                                             |
| PB45            | If PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 781 or 782, then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 11 or 17 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.                                                                                                                 |
| PB46            | If PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLIST equals 221-225, then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 01 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.                                                                                                                           |
| PB49            | If PERSON TYPE equals 05, <b>11, 12, or 13</b> , and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 13 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST, then at least one PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN should equal 211-214 or 219.                                                    |
| PB50            | If PERSON TYPE equals 05, <b>11, 12, or 13</b> , and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 10-12 or 16 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST, then at least one PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN should equal 461, 465, 469, 510, 781, 782, 791, 792, 794, 795, or 799. |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                    |
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| PB52            | If PERSON TYPE equals 06 or 07, and PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) equals 13 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST, then at least one PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLIST should equal 610. |
| PB56            | If PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 791, 792, 794, 795, then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 10 or 17 for the vehicle number identified in this person's VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST.                           |
| PB58            | NON-MOTORIST ACTION/CIRCUMSTANCES must not equal 05, 06, or 16 in combination.                                                                                                                                                                                                                          |
| PB59            | If NON-MOTORIST ACTION/CIRCUMSTANCES equals 16, and PERSON TYPE equals 05, <b>11, 12, or 13</b> , then PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN should equal 459.                                                                                                                               |
| PB60            | If PERSON TYPE equals 05, <b>11, 12, or 13</b> , and DRIVER PRESENCE equals 0 for the motor vehicle which strikes the non-motorist, then PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN should equal 220.                                                                                             |
| PB61            | If PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 220, then DRIVER PRESENCE should equal 0 for the motor vehicle striking the non-motorist.                                                                                                                                                    |
| PB62            | If PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 230, then at least one NON-MOTORIST ACTION/CIRCUMSTANCES must equal 12.                                                                                                                                                                      |
| PB63            | If PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 230, then at least one RELATED FACTOR - CRASH LEVEL should equal <b>019 or 023</b> .                                                                                                                                                         |
| PB64            | If any NON-MOTORIST ACTION/CIRCUMSTANCES equals 03 or 09, then the NON-MOTORIST ACTION/CIRCUMSTANCES must not also equal 05, 06, or 16 for this person.                                                                                                                                                 |
| PB66            | If PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN equals 1, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 01, 02, 03, 09, or 22.                                                                                                                                                        |
| PB67            | If PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN equals 2, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 10, 11, 13, 14, 16, 20-25, 28, 98, 99.                                                                                                                                        |
| PB68            | If PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN equals 3, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 10, 11, 13, 14, 16, 20-24, 28, 98, 99.                                                                                                                                        |
| PB69            | If PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN equals 4, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 24, 25, 98, 99.                                                                                                                                                               |
| PB70            | If PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN equals 9, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 16, 22, 24, 98, or 99.                                                                                                                                                        |
| PB71            | If PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - BICYCLE equals 1, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 01, 02, 03, 09, 16, or 22.                                                                                                                                                       |
| PB72            | If PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - BICYCLE equals 2, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 10, 11, 13, 14, 16, 20, 21, 22, 23, 24, 25, 28, 98, 99.                                                                                                                          |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                       |
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| PB73            | If PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - BICYCLE equals 3, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 10, 11, 13, 14, 16, 20, 21, 22, 23, 24, 28, 98, 99. |
| PB74            | If PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - BICYCLE equals 4, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 24, 25, 98, 99.                                     |
| PB75            | If PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - BICYCLE equals 9, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 16, 22, 24, 98 or 99.                               |
| PB76            | If PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION equals 1, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 03.                                                      |
| PB77            | If PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION equals 2, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 01, 02, or 10.                                           |
| PB78            | If PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION equals 3, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 11, 13.                                                  |
| PB79            | If PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION equals 4, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 14, 16, 20, 98, or 99.                                   |
| PB80            | If PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION equals 5, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 21, 23, 24, 98, or 99.                                   |
| PB81            | If PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION equals 6, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 20, 22, 28, 98, or 99.                                   |
| PB82            | If PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION equals 7 or 8, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 25.                                                 |
| PB83            | If PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION equals 9, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 09, 20, 22, 28, 98, or 99.                               |
| PB84            | If PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION equals 1, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 03, 09, 11, or 13.                                        |
| PB85            | If PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION equals 2, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 14, 16, or 20.                                            |
| PB86            | If PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION equals 3, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 01, 02, 10, 21, 23, 98, or 99.                            |
| PB87            | If PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION equals 4, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 24.                                                       |
| PB88            | If PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION equals 5 or 6, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 25.                                                  |
| PB89            | If PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION equals 8, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 20, 22, 28, 98, or 99.                                    |
| PB90            | If PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION equals 9, then NON-MOTORIST LOCATION AT TIME OF CRASH must equal 22, 98, or 99.                                            |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                         |
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| PB91            | If PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN equals 1, then PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION must equal 1, 2, or 9.                                                                                                                                 |
| PB92            | If PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN equals 2, then PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION must equal 3, 4, 5, 6, 7, 8, or 9.                                                                                                                     |
| PB93            | If PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN equals 3, then PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION must equal 2, 3, 4, 5, 6, or 9.                                                                                                                        |
| PB94            | If PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN equals 4, then PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION must equal 7, 8, or 9.                                                                                                                                 |
| PB95            | If PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - PEDESTRIAN equals 9, then PEDESTRIAN/ BIKE TYPING - PEDESTRIAN POSITION must equal 2, 5, or 9.                                                                                                                                 |
| PB96            | If PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - BICYCLE equals 1, then PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION must equal 1, 2, 3, 8, or 9.                                                                                                                               |
| PB97            | If PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - BICYCLE equals 3, then PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION must equal 1, 2, 3, 4, 8, or 9.                                                                                                                            |
| PB98            | If PEDESTRIAN/ BIKE TYPING - CRASH LOCATION - BICYCLE equals 4, then PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION must equal 4, 5, 6, or 9.                                                                                                                                  |
| PB99            | If PEDESTRIAN/ BIKE TYPING - CRASH LOCATION-BICYCLE equals 9, then PEDESTRIAN/ BIKE TYPING - BICYCLIST POSITION must equal 9.                                                                                                                                                |
| PBA0            | If PEDESTRIAN/ BIKE TYPING - CRASH TYPE - BICYCLE equals 111, 211, 212, and VEHICLE NUMBER - VEHICLE LEVEL equals VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST, then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 11.                   |
| PBA1            | If PEDESTRIAN/ BIKE TYPING - CRASH TYPE - BICYCLE equals 112, 151, 213, 214, 217, or 218, and VEHICLE NUMBER - VEHICLE LEVEL equals VEHICLE NUMBER OF MOTOR VEHICLE STRIKING NON-MOTORIST, then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 10. |
| PBA2            | If PEDESTRIAN SCENARIO equals 1a, 1b, 1c, 1d, 3a, 3b, 3c, 3d, 5a, 5b, 5c, 5d, 7a, 7b, 7c, 7d, 9a, 9b, 9c, 9d, or 11a, 11b, 11c, 11d, then PEDESTRIAN POSITION must equal 2.                                                                                                  |
| PBA3            | If CRASH LOCATION-PEDESTRIAN equals 1 (At Intersection) and PEDESTRIAN SCENARIO equals 2a, 2b, 2c, 2d, 4a, 4b, 4c, 4d, 6a, 6b, 6c, 6d, 8a, 8b, 8c, 8d, 10a, 10b, 10c, 10d, or 12a, 12b, 12c, 12d, then PEDESTRIAN POSITION must equal 1, 9.                                  |
| PBA4            | If CRASH LOCATION-PEDESTRIAN equals 2 (Intersection-Related) and PEDESTRIAN SCENARIO equals 2a, 2b, 2c, 2d, 4a, 4b, 4c, 4d, 6a, 6b, 6c, 6d, 8a, 8b, 8c, 8d, 10a, 10b, 10c, 10d, or 12a, 12b, 12c, 12d, then PEDESTRIAN POSITION must equal 3-9.                              |
| PBA5            | If PEDESTRIAN SCENARIO equals 1a, 1b, 1c, 1d, 2a, 2b, 2c, 2d, 3a, 3b, 3c, 3d, 4a, 4b, 4c, 4d, then PRE-EVENT MOVEMENT should equal 01, 02, 03, 04, 06, 08, 09, 12, 13, 14, 15, 16, or 17 for the vehicle number that struck this non-motorist.                               |
| PBA6            | If PEDESTRIAN SCENARIO equals 5a, 5b, 5c, 5d, 6a, 6b, 6c, 6d, 7a, 7b, 7c, 7d, 8a, 8b, 8c, 8d, then PRE-EVENT MOVEMENT should equal 10 for the vehicle number that struck this non-motorist.                                                                                  |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                           |
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| PBA7            | If PEDESTRIAN SCENARIO equals 9a, 9b, 9c, 9d, 10a, 10b, 10c, 10d, 11a, 11b, 11c, 11d, 12a, 12b, 12c, 12d, then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) should equal 11 for the vehicle number that struck this non-motorist.               |
| PBA8            | If NUMBER OF FORMS SUBMITTED FOR PERSONS NOT IN MOTOR VEHICLES equals 1, and the FIRST HARMFUL EVENT equals 08, 09, or 15, and NON-MOTORIST LOCATION AT TIME OF CRASH equals 01 or 02; then RELATION TO JUNCTION (SPECIFIC LOCATION) must equal 3.             |
| PBA9            | If PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 741, then NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must not equal 01.                                                                                                                                |
| PBB1            | If PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 742, then NON-MOTORIST CONTRIBUTING CIRCUMSTANCES must not equal 11.                                                                                                                                |
| PBB2            | If CRASH LOCATION - PEDESTRIAN equals 1 or 2, then PEDESTRIAN INITIAL DIRECTION OF TRAVEL must equal 1-4, or 9, MOTORIST MANEUVER must equal 1-3, or 9, INTERSECTION LEG must equal 1, 2, or 9, and MOTORIST INITIAL DIRECTION OF TRAVEL must equal 1-4, or 9. |
| PBB3            | If PEDESTRIAN/BIKE TYPING-PEDESTRIAN CRASH TYPE equals 341 or 342, then RELATED FACTORS - CRASH LEVEL should equal 031.                                                                                                                                        |
| PBB4            | If PEDESTRIAN/ BIKE TYPING - CRASH LOCATION -BICYCLE equals 1, then NON-MOTORIST ACTION/CIRCUMSTANCES should not equal 05, 06, or 16.                                                                                                                          |
| PBB5            | If PEDESTRIAN/ BIKE TYPING - CRASH LOCATION -PEDESTRIAN equals 1, then NON-MOTORIST ACTION/CIRCUMSTANCES should not equal 05, 06, or 16.                                                                                                                       |
| PBB6            | If PEDESTRIAN CRASH GROUP equals 750 or 790, then NM ACTION/CIRCUMSTANCES must not equal 08 (In Roadway – Other [Working, Playing, etc.]).                                                                                                                     |
| PBB7            | If PEDESTRIAN CRASH GROUP equals 750 or 790, then at least one NM ACTION/CIRCUMSTANCES should equal 03 (Crossing Roadway).                                                                                                                                     |
| PBC0            | If PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLE equals 250, then at least one NON-MOTORIST CONTRIBUTING CIRCUMSTANCES should equal 09.                                                                                                                        |
| PBC1            | If PEDESTRIAN/BIKE TYPING - CRASH TYPE - PEDESTRIAN equals 410, then at least one NON-MOTORIST CONTRIBUTING CIRCUMSTANCES should equal 09.                                                                                                                     |
| <b>PBC2</b>     | <b><i>If PEDESTRIAN/BIKE TYPING - CRASH TYPE - BICYCLE equals 143, then TRAFFIC CONTROL DEVICE for the striking vehicle must equal 20, 21, 28, or 29.</i></b>                                                                                                  |
| PC20            | If RELATION TO TRAFFICWAY equals 02-08, 10, or 12, then PRE-IMPACT LOCATION of the vehicle(s) involved in the FIRST HARMFUL EVENT should equal 0, 4, 5, or 9.                                                                                                  |
| PC30            | If PRE-IMPACT LOCATION for a vehicle involved in the first harmful event equals 4, 5, and RELATION TO JUNCTION (b) does not equal 04, 05, then RELATION TO TRAFFICWAY should not equal 01 or 11.                                                               |
| PC40            | If PRE-IMPACT LOCATION for a vehicle involved in the first harmful event equals 1-3, 6, then RELATION TO TRAFFICWAY should equal 01 or 11.                                                                                                                     |

| <b>Error ID</b> | <b>Error Message</b>                                                             |
|-----------------|----------------------------------------------------------------------------------|
| PC50            | If PRE-IMPACT LOCATION equals 2, then TOTAL LANES IN ROADWAY should not equal 1. |

## U Series

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                        |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| U010            | UNLIKELY: SPECIAL JURISDICTION is equal to 4 or 5.                                                                                                                                                                                                                          |
| U020            | UNLIKELY: FIRST HARMFUL EVENT equals 02, 04, 06, 51, or 72.                                                                                                                                                                                                                 |
| U030            | UNLIKELY: FIRST HARMFUL EVENT equals 12, 55, and MANNER OF COLLISION OF THE FIRST HARMFUL EVENT equals 10, 11.                                                                                                                                                              |
| <b>U361</b>     | <b>UNLIKELY: HIT-AND-RUN equals 1, and vPIC BODY CLASS is not equal to 069, 084, 086, 088, 097, 105, 113, 124, 126, 127, and VEHICLE LICENSE PLATE NUMBER is equal to 0s.</b>                                                                                               |
| U040            | UNLIKELY: REGISTRATION STATE equals 97.                                                                                                                                                                                                                                     |
| U050            | UNLIKELY: SPECIAL USE equals 04, 08.                                                                                                                                                                                                                                        |
| U070            | UNLIKELY: More than one vehicle with HIT-AND-RUN equal to 1.                                                                                                                                                                                                                |
| U080            | If vPIC BODY CLASS does not equal 009 (Van), 016 (Bus), 068 (Streetcar / Trolley), or 073 (Bus-School Bus), and FINAL STAGE BODY CLASS does not equal 009 (Van), 016 (Bus), 068 (Streetcar / Trolley), or 073 (Bus-School Bus), then UNLIKELY: SPECIAL USE equals 02 or 03. |
| <b>U111</b>     | <b>Unlikely TRAVEL SPEED is 97, 98, or 99.</b>                                                                                                                                                                                                                              |
| U120            | UNLIKELY: AGE should not be greater than 094, unless equal to 998, 999.                                                                                                                                                                                                     |
| U130            | UNLIKELY: SEATING POSITION equals 41-43, 48.                                                                                                                                                                                                                                |
| U150            | UNLIKELY: NON-MOTORIST LOCATION AT TIME OF CRASH equals 16, 25.                                                                                                                                                                                                             |
| U160            | UNLIKELY: INJURY SEVERITY equals 6.                                                                                                                                                                                                                                         |
| U170            | UNLIKELY: RESTRAINT SYSTEM USE Subfield-1 Type of Restraint System in Use equals 01.                                                                                                                                                                                        |
| <b>U200</b>     | <b>Unlikely DRIVER DISTRACTED BY equals 18 or 19.</b>                                                                                                                                                                                                                       |
| U210            | UNLIKELY: PREVIOUS RECORDED CRASHES is greater than 8 and less than 98.                                                                                                                                                                                                     |
| U220            | UNLIKELY: any Subfield of PREVIOUS RECORDED SUSPENSIONS AND REVOCATIONS is greater than 10 and less than 98.                                                                                                                                                                |
| U230            | UNLIKELY: PREVIOUS DWI CONVICTIONS is greater than 8 and less than 98.                                                                                                                                                                                                      |
| U240            | UNLIKELY: PREVIOUS SPEEDING CONVICTIONS is greater than 8 and less than 98.                                                                                                                                                                                                 |
| U250            | UNLIKELY: PREVIOUS OTHER MOVING VIOLATION CONVICTIONS is greater than 8 and less than 98.                                                                                                                                                                                   |
| U260            | UNLIKELY: DRIVER HEIGHT (in feet) is less than 3 feet or greater than 7 feet; verify data.                                                                                                                                                                                  |
| U280            | UNLIKELY: DRIVER HEIGHT is less than 36 inches or greater than 84 inches; verify data.                                                                                                                                                                                      |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                                 |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| U290            | UNLIKELY: DRIVER WEIGHT is less than 50 lbs. or greater than 399 lbs.; verify data.                                                                                                                                                                                                                                  |
| <b>U300</b>     | <b>Unlikely NON-MOTORIST DISTRACTED BY equals 18 or 19.</b>                                                                                                                                                                                                                                                          |
| U340            | UNLIKELY: HIT-AND-RUN equals 0, and SEX equals 9.                                                                                                                                                                                                                                                                    |
| U350            | UNLIKELY: INJURY SEVERITY equals 1-6, and SEATING POSITION equals 98.                                                                                                                                                                                                                                                |
| U360            | UNLIKELY: AGE equals 999 and HIT AND RUN is not equal to 1.                                                                                                                                                                                                                                                          |
| U370            | UNLIKELY: EXTENT OF DAMAGE equals 8 if STATE does not equal <b>06</b> , 17, 18, 34, <b>36</b> , 48, 49, or 53.                                                                                                                                                                                                       |
| U371            | UNLIKELY: EXTENT OF DAMAGE equals 8 if PSU_STATE does not equal <b>CA</b> , IL, NJ, NY, TX, UT, or WA.                                                                                                                                                                                                               |
| U390            | UNLIKELY: LIGHT CONDITION equals 8.                                                                                                                                                                                                                                                                                  |
| U410            | UNLIKELY: DRIVER'S LICENSE STATE equals 98 if HIT AND RUN does not equal 1.                                                                                                                                                                                                                                          |
| U420            | UNLIKELY: SPECIAL USE equals 98 <b>unless STATE or PSU_STATE equals 25.</b>                                                                                                                                                                                                                                          |
| U430            | UNLIKELY: VEHICLE REMOVAL equals 8 unless STATE equals <b>TX</b> .                                                                                                                                                                                                                                                   |
| U435            | UNLIKELY: VEHICLE REMOVAL equals 8 unless <b>STATE</b> equals <b>TX</b> .                                                                                                                                                                                                                                            |
| U440            | UNLIKELY: VIOLATIONS CHARGED equals 97.                                                                                                                                                                                                                                                                              |
| U450            | UNLIKELY: REGISTRATION STATE equals 91 if HIT AND RUN does not equal 1.                                                                                                                                                                                                                                              |
| U490            | UNLIKELY: <b>POWER UNIT</b> GVWR_ <u>from and GVWR_to</u> equals <b>98</b> or <b>99</b> and VEHICLE MODEL YEAR is greater than 1980 and not equal to 9998 or 9999, and VIN is not equal to 0000000000000000, 8888888888888888, or 9999999999999999, and VIN passes the check digit check (i.e., VIN is a Valid VIN). |
| U510            | UNLIKELY: VEHICLE MODEL YEAR equals 9998 if HIT AND RUN does not equal 1.                                                                                                                                                                                                                                            |
| U520            | UNLIKELY: RESTRAINT SYSTEM USE Subfield-1 Type of Restraint System in Use equals 98 <b>if not a created record and</b> HIT AND RUN does not equal 1.                                                                                                                                                                 |
| U530            | UNLIKELY: any CONDITION (IMPAIRMENT) AT TIME OF CRASH (D23) equals 03, 05, or 07.                                                                                                                                                                                                                                    |
| U590            | UNLIKELY: CONDITION (IMPAIRMENT) AT TIME OF CRASH equals 05 or 07.                                                                                                                                                                                                                                                   |
| U640            | UNLIKELY: FIRST HARMFUL EVENT equals 99.                                                                                                                                                                                                                                                                             |
| U651            | UNLIKELY: SEQUENCE OF EVENTS equals 62, 60 consecutively.                                                                                                                                                                                                                                                            |
| U652            | UNLIKELY: SEQUENCE OF EVENTS equals 01, 58 or 58, 01 consecutively.                                                                                                                                                                                                                                                  |
| U653            | UNLIKELY: SEQUENCE OF EVENTS equals 65, 69 consecutively.                                                                                                                                                                                                                                                            |
| U675            | UNLIKELY: TRAFFICWAY DESCRIPTION equals 1, 4, or 5, and any SEQUENCE OF EVENTS equals 65 for this vehicle.                                                                                                                                                                                                           |
| U680            | UNLIKELY: MOTOR CARRIER IDENTIFICATION NUMBER (Identification Number) equals 999999997.                                                                                                                                                                                                                              |
| U681            | UNLIKELY: METHOD OF ALCOHOL DETERMINATION BY POLICE equals 8.                                                                                                                                                                                                                                                        |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                             |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| U682            | UNLIKELY: CRITICAL EVENT: PRECRASH (EVENT) equals 08 for this vehicle and CONDITION (IMPAIRMENT) AT TIME OF CRASH (D23) does not equal 01 for this vehicle's driver.                                                             |
| U683            | UNLIKELY: OWNERSHIP equals 98 or 99 unless STATE equals <b>06, 12, or 48</b> .                                                                                                                                                   |
| U684            | UNLIKELY: LAND USE (a) equals 8.                                                                                                                                                                                                 |
| U685            | UNLIKELY: FUNCTIONAL SYSTEM (b) equals 98.                                                                                                                                                                                       |
| U686            | UNLIKELY: LAND USE and FUNCTIONAL SYSTEM (a/b) equals 9, 99.                                                                                                                                                                     |
| U687            | UNLIKELY: TRAILER VEHICLE IDENTIFICATION NUMBER equal 0s for any of the three sets.                                                                                                                                              |
| U689            | UNLIKELY: ALCOHOL TEST Subfield 3-Test Result equals 001-009.                                                                                                                                                                    |
| U690            | UNLIKELY: UNIT TYPE equals 2-4 and HIT and RUN equals 1.                                                                                                                                                                         |
| U691            | UNLIKELY: ALCOHOL TEST Subfield 3-Test Result equals 010-019.                                                                                                                                                                    |
| U692            | UNLIKELY: ALCOHOL TEST Subfield 3-Test Result equals 020-029.                                                                                                                                                                    |
| U693            | UNLIKELY: ALCOHOL TEST Subfield 3-Test Result equals 030-039.                                                                                                                                                                    |
| U694            | UNLIKELY: AGE equals 0 and RESTRAINT SYSTEM USE Subfield-1 Type of Restraint System in Use equals 01-03, 06, 08, 20, 97, 98, 99, or blank and [SEX equals 2 and AGE equals 5-72 for at least one other occupant in the vehicle]. |
| U695            | UNLIKELY: AGE equals 0 for a person not in a motor vehicle and [SEX equals 2 and AGE equals 5-72 for at least one other person not in a motor vehicle].                                                                          |
| U696            | UNLIKELY: ALCOHOL TEST TYPE equals 01, 03, 04, 05, 06, 07, or 08, and ALCOHOL TEST RESULTS is greater than 600, and ALCOHOL TEST RESULTS not equal to 995, 996, 997, 998, or 999.                                                |
| U697            | UNLIKELY: ALCOHOL TEST TYPE equals 02, 10, or 11, and ALCOHOL TEST RESULTS is greater than 300, and ALCOHOL TEST RESULTS not equal to 995, 996, 997, 998, or 999.                                                                |
| <b>U698</b>     | <b>UNLIKELY: TYPE OF INTERSECTION equals 11.</b>                                                                                                                                                                                 |
| U700            | UNLIKELY: MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S)-Subfield 2 or MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S)-Subfield 3 equals 3, 4, or 5.                                                                                        |
| U710            | UNLIKELY: MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S)-Subfield 1 equals 01 and VEHICLE MODEL YEAR is between 2000 and 2012.                                                                                                        |
| U720            | UNLIKELY: AGE equals 0 and HELMET USE Subfield 1-Helmet Use equals 05, 16, 17, 19, 98, 99, or blank and [SEX equals 2 and AGE equals 5-72 for at least one other occupant in the vehicle].                                       |
| U730            | UNLIKELY: HELMET USE Subfield 1-Helmet Use equals 98 <b>if not a created record and</b> HIT AND RUN does not equal 1.                                                                                                            |
| U740            | UNLIKELY: MILEPOINT is greater than 0500.0.                                                                                                                                                                                      |
| <b>U750</b>     | <b>UNLIKELY: If EMS TIME AT HOSPITAL equals 8888, then NOTIFICATION TIME EMS is unlikely to equal 8888.</b>                                                                                                                      |



| <b>Error ID</b> | <b>Error Message</b>                                                                                   |
|-----------------|--------------------------------------------------------------------------------------------------------|
| <b>U760</b>     | <b>UNLIKELY: If EMS TIME AT HOSPITAL equals 8888, then ARRIVAL TIME EMS is unlikely to equal 8888.</b> |
| <b>U770</b>     | <b>UNLIKELY: REGISTRATION STATE equals 98.</b>                                                         |

## V Series

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>V010</b>     | <b>VEHICLE MODEL YEAR</b> should not be less than 1940.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>V011</b>     | If <b>VEHICLE MODEL YEAR</b> is less than 1950, then <b>VEHICLE IDENTIFICATION NUMBER</b> must equal 0s.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>V020</b>     | If <b>VEHICLE TRAILING</b> equals 1, then <b>vPIC BODY CLASS</b> should not equal <b>006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 016 (Bus), 073 (Bus-School Bus), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring / Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 Off-road Vehicle - Dirt Bike / Off-Road), 085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road), 086 (Off-road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small / Minibike), 088 (Off-road Vehicle - Go Kart), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 097 (Off-road Vehicle - Snowmobile), 098 (Motorcycle - Street), 100 (Motorcycle - Enclosed Three Wheeled / Enclosed Autocycle), 103 (Motorcycle - Unenclosed Three Wheeled / Open Autocycle), 104 (Motorcycle - Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motocross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle), and FINAL STAGE BODY CLASS should not equal 016 (Bus) or 073 (Bus-School Bus).</b> |
| <b>V031</b>     | If <b>RELATED FACTORS-VEHICLE LEVEL</b> equals 039, then <b>vPIC BODY CLASS</b> should equal <b>011 (Truck), 060 (Pickup), 66 (Truck-Tractor), 095 (Cargo Van), 111 (Step Van / Walk-in Van), 127 (Off-road Vehicle - Construction Equipment), or 997 (Other), or FINAL STAGE BODY CLASS should equal 011 (Truck), 060 (Pickup), 66 (Truck-Tractor), 095 (Cargo Van), 111 (Step Van/Walk-in Van), or 997 (Other (Specify:)).</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>V032</b>     | If <b>SPECIAL USE</b> equals 10, 11, or 12, then <b>vPIC BODY CLASS</b> should equal <b>007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 009 (Van), 011 (Truck), 060 (Pickup), or 119 (Sport Utility Truck (SUT)), or FINAL STAGE BODY CLASS should equal 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 009 (Van), 011 (Truck), 060 (Pickup), or 119 (Sport Utility Truck (SUT)).</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>V033</b>     | If <b>RELATED FACTORS-VEHICLE LEVEL</b> equals 045, then <b>vPIC BODY CLASS</b> must equal <b>060 (Pickup), or FINAL STAGE BODY CLASS must equal 060 (Pickup).</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| V050            | If HELMET USE Subfield 1 Helmet Use equals 05, 16, 17, 19, <b>or</b> 99, then <b>vPIC BODY CLASS must equal 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport/Adventure/Supermoto/On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 097 (Off-road Vehicle - Snowmobile), 098 (Motorcycle - Street), 100 (Motorcycle - Enclosed Three Wheeled / Enclosed Autocycle), 103 (Motorcycle - Unenclosed Three Wheeled / Open Autocycle), 104 (Moped), 105 (Off-road Vehicle - Recreational Off-Road Vehicle (ROV)), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 124 (Off-road Vehicle - Go Kart), 125 (Motorcycle - Unknown Body Type), 996 (Motorized Bicycle), or 997 (Other).</b> |
| V051            | If BUS USE equals 01, then <b>vPIC BODY CLASS should equal 009 (Van), 016 (Bus), or 073 (Bus - School Bus), or FINAL STAGE BODY CLASS should equal 009 (Van), 016 (Bus), or 073 (Bus - School Bus).</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| V052            | If BUS USE equals 04, then <b>vPIC BODY CLASS should equal 016 (Bus), or FINAL STAGE BODY CLASS should equal 016 (Bus).</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| V053            | If BUS USE equals 05, then <b>vPIC BODY CLASS should equal 009 (Van), 016 (Bus), or 117 (Limousine), or FINAL STAGE BODY CLASS should equal 009 (Van), 016 (Bus), or 117 (Limousine).</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| V054            | If BUS USE equals 07, then <b>vPIC BODY CLASS must equal 009 (Van), 016 (Bus), 068 (Streetcar / Trolley), or 073 (Bus-School Bus), or FINAL STAGE BODY CLASS must equal 009 (Van), 016 (Bus), 068 (Streetcar / Trolley), or 073 (Bus-School Bus).</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| V055            | If BUS USE equals 00, then <b>vPIC BODY CLASS must not equal 016 (Bus) or 073 (Bus - School Bus), and FINAL STAGE BODY CLASS must not equal 016 (Bus) or 073 (Bus - School Bus).</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| V056            | If SPECIAL USE equals 02, then BUS USE should equal 01.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| V057            | If SPECIAL USE equals 03, then BUS USE should equal 04-07, 98, or 99.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| V058            | If EMERGENCY MOTOR VEHICLE USE equals 2-6, then SPECIAL USE should equal 04-08, 10, 11, 12, or 24.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| V059            | If BUS USE equals 01, then SPECIAL USE must equal 02.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| V060            | If SPECIAL USE equals 04, then REGISTRATION STATE should equal 94.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| V061            | If BUS USE equals 04-07, then SPECIAL USE must equal 03.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| V070            | If HM1 equals 2, then REGISTRATION STATE should not equal 92.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| V090            | If HM1 equals 2, then COMMERCIAL MOTOR VEHICLE LICENSE STATUS should equal 06, 99.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| V100            | If HM1 equals 2, and RELATED FACTORS-DRIVER LEVEL does not equal 019, then COMMERCIAL MOTOR VEHICLE LICENSE STATUS should not equal 01, 02, 05.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| V16P            | If RELATED FACTORS-DRIVER LEVEL equals 088, then VEHICLE TRAILING must not equal 0, 9.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| V170            | If NUMBER OF OCCUPANTS <i>equals 01-98, and vPIC BODY CLASS equals 001 (Convertible/Cabriolet), 003 (Coupe), 004 (Low Speed Vehicle (LSV) / Neighborhood Electric Vehicle (NEV)), 005 (Hatchback/Liftback/Notchback), 010 (Roadster), 013 (Sedan/Saloon), 060 (Pickup), 088 (Off-road Vehicle - Go Kart), 105 (Off-road Vehicle - Recreational Off-Road Vehicle (ROV)), 124 (Off-road Vehicle - Golf Cart), 126 (Off-road Vehicle - Farm Equipment), 127 (Off-road Vehicle - Construction Equipment), or 997 (Other), or FINAL STAGE BODY CLASS equals 004 (Low Speed Vehicle (LSV) / Neighborhood Electric Vehicle (NEV)) or 060 (Pickup)</i> , then NUMBER OF OCCUPANTS should not be greater than 6. |
| V190            | If NUMBER OF OCCUPANTS is 01-98, and <b>FINAL STAGE BODY CLASS</b> equals <b>117 (Limousine)</b> , then NUMBER OF OCCUPANTS should not be greater than 30.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| V200            | If NUMBER OF OCCUPANTS is 01-98, and <b>vPIC BODY CLASS</b> <i>equals a motorcycle (006, 012, 080, 081, 082, 083, 084, 085, 086, 087, 090, 094, 098, 104, 109, 110, 113, 114, 125, 996), 100 (Motorcycle - Enclosed Three Wheeled / Enclosed Autocycle), 103 (Motorcycle - Unenclosed Three Wheeled / Open Autocycle), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), or 097 (Off-road Vehicle - Snowmobile)</i> , then NUMBER OF OCCUPANTS should not be greater than 2.                                                                                                                                                                                                       |
| V210            | If NUMBER OF OCCUPANTS is 01-98, <b>vPIC BODY CLASS</b> <i>equals 002 (Minivan), 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 008 (Crossover Utility Vehicle (CUV)), 009 (Van), 15 (Wagon), or 119 (Sport Utility Truck (SUT))</i> , or <b>FINAL STAGE BODY CLASS</b> <i>equals 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 008 (Crossover Utility Vehicle (CUV)), 15 (Wagon), or 119 (Sport Utility Truck)</i> , then NUMBER OF OCCUPANTS should not be greater than 15.                                                                                                                                                                                          |
| V220            | If NUMBER OF OCCUPANTS is 01-98, and <b>vPIC BODY CLASS</b> <i>equals 011 (Truck), 066 (Truck-Tractor), 095 (Cargo Van), 111 (Step Van / Walk-in Van)</i> , or <b>FINAL STAGE BODY CLASS</b> <i>equals 011 (Truck), 066 (Truck-Tractor), 095 (Cargo Van), or 111 (Step Van / Walk-in Van)</i> , then NUMBER OF OCCUPANTS should not be greater than 4.                                                                                                                                                                                                                                                                                                                                                  |
| V260            | If <b>vPIC BODY CLASS</b> <i>equals 999 (Unknown)</i> , then NUMBER OF OCCUPANTS <i>should equal 0-10 or 99</i> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| V270            | If <b>VEHICLE</b> MODEL YEAR is greater than 1980, then the VIN should be 17 characters, all characters should be alphanumeric (A-Z, a-z, 0-9), and no characters should equal I, O, or Q.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| V271            | If <b>VEHICLE</b> MODEL YEAR is greater than 1980 and PSU_STATE is equal to GA, then the first 11 characters of VEHICLE IDENTIFICATION NUMBER should be alphanumeric (A-Z, a-z, 0-9), and no characters should equal I, O, or Q.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| V272            | If <b>VEHICLE</b> MODEL YEAR is greater than 1980 and PSU_STATE is not equal to GA <b>or MN</b> , then the VEHICLE IDENTIFICATION NUMBER should be 17 characters, all characters should be alphanumeric (A-Z, a-z, 0-9), and no characters should equal I, O, or Q.                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| V280            | If <b>VEHICLE</b> MODEL YEAR is greater than 1980 and VEHICLE IDENTIFICATION NUMBER is 17 characters, all characters are alphanumeric (A-Z, a-z, 0-9), and no characters are I, O, or Q, then the VIN should pass check digit calculation.                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| V281            | If <b>VEHICLE</b> MODEL YEAR is greater than 1980 and VEHICLE IDENTIFICATION NUMBER is 17 characters and PSU_STATE is not equal to GA, all characters are alphanumeric (A-Z, a-z, 0-9), and no characters are I, O, or Q, then the VEHICLE IDENTIFICATION NUMBER should pass check digit calculation.                                                                                                                                                                                                                                                                |
| V300            | Possible error in VIN Production Number.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| V310            | If SEATING POSITION equals 54 and VEHICLE TRAILING equals 1-4, then AIR BAG DEPLOYED must equal 20.                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| V320            | If <b>vPIC BODY CLASS equals 011 (Truck), 016 (Bus), 066 (Truck-Tractor), 068 (Streetcar / Trolley), 73 (Bus-School Bus), 95 (Cargo Van), 108 (Motorhome), or 111 (Step Van / Walk-in Van), or FINAL STAGE BODY CLASS equals 011 (Truck), 016 (Bus), 066 (Truck-Tractor), 068 (Streetcar / Trolley), 73 (Bus-School Bus), 95 (Cargo Van), 108 (Motorhome), or 111 (Step Van / Walk-in Van), and POWER UNIT GVWR_from and GVWR_to equals 13 to 18</b> , and SEATING POSITION does not equal 11, 13, <b>or</b> 98, then AIR BAG DEPLOYED should equal 20 <b>or</b> 98. |
| V330            | If SCHOOL BUS RELATED equals 1, then <b>vPIC BODY CLASS or FINAL STAGE BODY CLASS</b> of at least one of the involved vehicles should equal <b>073 (Bus - School Bus)</b> , or SPECIAL USE for at least one involved vehicle should equal 02, or BUS USE for at least one vehicle should equal 01.                                                                                                                                                                                                                                                                   |
| V401            | <b>If NUMBER OF OCCUPANTS is 01-98, and vPIC BODY CLASS equals 108 (Motorhome), or FINAL STAGE BODY CLASS equals 108 (Motorhome), then NUMBER OF OCCUPANTS should not be greater than 8.</b>                                                                                                                                                                                                                                                                                                                                                                         |
| V402            | <b>If NUMBER OF OCCUPANTS is 01-98, and vPIC BODY CLASS equals 073 (Bus - School Bus), or FINAL STAGE BODY CLASS equals 073 (Bus - School Bus), then NUMBER OF OCCUPANTS should not be greater than 50.</b>                                                                                                                                                                                                                                                                                                                                                          |
| V440            | If <b>vPIC BODY CLASS or FINAL STAGE BODY CLASS</b> equals <b>073 (Bus - School Bus)</b> , then SCHOOL BUS RELATED should equal 1.                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| V450            | <b>If NUMBER OF OCCUPANTS is 01-98, and vPIC BODY CLASS equals equal 016 (Bus) or 068 (Streetcar / Trolley), or FINAL STAGE BODY CLASS equals 016 (Bus) or 068 (Streetcar / Trolley), then NUMBER OF OCCUPANTS should not be greater than 60.</b>                                                                                                                                                                                                                                                                                                                    |
| V46P            | If VEHICLE CONFIGURATION equals 21, then <b>vPIC BODY CLASS must equal 009 (Van), 016 (Bus), 068 (Streetcar / Trolley), or 073 (Bus-School Bus), or FINAL STAGE BODY CLASS must equal 016 (Bus), 068 (Streetcar / Trolley), or 073 (Bus-School Bus).</b>                                                                                                                                                                                                                                                                                                             |
| V470            | If VEHICLE CONFIGURATION equals 01, then CARGO BODY TYPE should be 01-05, 07, 12, 96-98.                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| V47P            | If VEHICLE CONFIGURATION equals 21, then CARGO BODY TYPE must equal 22.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| V504            | If <b>POWER UNIT GVWR</b> equals <b>11 or 12</b> , then NCSA BODY TYPE <b>must</b> equal 01-22, 28-49, <b>80-90, 91, 94-96 or 97.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                |
| V507            | If NCSA BODY TYPE equals 01-22, 28-49, <b>80-90, 91, or 94-96</b> , then <b>POWER UNIT GVWR_From and Power Unit GVWR_To MUST</b> be 11 <b>or</b> 12.                                                                                                                                                                                                                                                                                                                                                                                                                 |
| V509            | <b>If NCSA BODY TYPE equals 50-78, then POWER UNIT GVWR_FROM and POWER UNIT GVWR_TO must be in 13-18.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                              |
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| V531            | If BUS USE equals 01, 04-07, 98, then VEHICLE CONFIGURATION should equal 20, 21, and CARGO BODY TYPE should equal 22.                                                                                             |
| V532            | If VEHICLE CONFIGURATION equals 01, 02, <b>05-08</b> , 19, 21, then <b>POWER UNIT GVWR must not be 11 or 12.</b>                                                                                                  |
| V533            | If CRASH TYPE equals 03, 08, 38, 40, 58 or 60, then ATTEMPTED AVOIDANCE MANEUVER must not equal 00 or 01.                                                                                                         |
| <b>V534</b>     | <b>If CRASH TYPE equals 02 or 07, and ATTEMPTED AVOIDANCE MANEUVER equals 01, then PRE-IMPACT STABILITY should not equal 09.</b>                                                                                  |
| V535            | If ATTEMPTED AVOIDANCE MANEUVER equals 00, then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must equal 00.                                                                                        |
| <b>V536</b>     | <b>If CRASH TYPE equals 20-49, then TRAFFICWAY DESCRIPTION should be the same for the vehicles involved in the FIRST HARMFUL EVENT.</b>                                                                           |
| <b>V537</b>     | <b>If CRASH TYPE equals 68, 69, 82, 83, 86, 87, 88, or 89, then the vehicles involved in the FIRST HARMFUL EVENT should have a RELATION TO JUNCTION equal to 02, 04, or 08.</b>                                   |
| V538            | If JACKKNIFE equals 2, then PRE-EVENT MOVEMENT (PRIOR TO RECOGNITION OF CRITICAL EVENT) must not equal 04, 05, 07-09 or 13 for this vehicle.                                                                      |
| <b>V539</b>     | <b>If CRASH TYPE equals 50-67, then ROADWAY ALIGNMENT should not equal 2 for both vehicles involved in the FIRST HARMFUL EVENT, and should not equal 3 for both vehicles involved in the FIRST HARMFUL EVENT.</b> |
| V550            | If REGISTRATION STATE equals 93, 94, then REGISTERED VEHICLE OWNER should equal 3, 4.                                                                                                                             |
| V560            | If SPECIAL USE equals 04, then REGISTERED VEHICLE OWNER should equal 3, and REGISTRATION STATE should equal 94.                                                                                                   |
| V56P            | If VEHICLE CONFIGURATION equals 10, then <b>POWER UNIT GVWR must equal 11-12, and HM1 must equal 2.</b>                                                                                                           |
| V570            | If HM1 equals 2, then REGISTERED VEHICLE OWNER should not equal 0, 1, 2, 4.                                                                                                                                       |
| V57P            | If VEHICLE CONFIGURATION equals 05, then CARGO BODY TYPE must equal 12 <b>or</b> 96.                                                                                                                              |
| V580            | If HM1 equals 2, then REGISTERED VEHICLE OWNER should equal 3.                                                                                                                                                    |
| V58P            | If VEHICLE CONFIGURATION equals 04, then <b>vPIC BODY CLASS must not equal 066 (Truck-Tractor), and FINAL STAGE BODY CLASS must not equal 066 (Truck-Tractor).</b>                                                |
| V590            | If RELATED FACTORS-VEHICLE LEVEL equals <b>032</b> , then REGISTERED VEHICLE OWNER should equal 1-3.                                                                                                              |
| V592            | If RELATED FACTORS-VEHICLE LEVEL equals <b>037</b> , then REGISTRATION STATE should not equal 00, 92.                                                                                                             |
| V593            | If RELATED FACTORS-VEHICLE LEVEL equals <b>037</b> , then REGISTERED VEHICLE OWNER should not equal 0.                                                                                                            |
| V594            | If RELATED FACTORS - VEHICLE LEVEL equals <b>029</b> , then NUMBER OF VEHICLE FORMS SUBMITTED must be greater than 002.                                                                                           |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                        |
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| V595            | If RELATED FACTORS - VEHICLE LEVEL equals 029 for this vehicle, then at least one other vehicle in the crash must have an AREA OF IMPACT equal to 18, 19, or 20 associated with an event involving this vehicle in the crash events table.                                                  |
| V596            | If SPECIAL USE equals 23, then <b>POWER UNIT GVWR_FROM and POWER UNIT GVWR_TO must be in 13-18, and vPIC BODY CLASS must equal 009 (Van), 011 (Truck), 060 (Pickup), or 095 (Cargo Van), or FINAL STAGE BODY CLASS must equal 009 (Van), 011 (Truck), 060 (Pickup), or 095 (Cargo Van).</b> |
| V59P            | If VEHICLE CONFIGURATION equals 06, then <b>vPIC BODY CLASS must equal 066 (Truck-Tractor), or FINAL STAGE BODY CLASS must equal 066 (Truck-Tractor)</b> , and VEHICLE TRAILING must equal 1.                                                                                               |
| V59Q            | If ATTEMPTED AVOIDANCE MANEUVER equals 99, then DRIVER MANEUVERED TO AVOID should equal 00, 98, or 99.                                                                                                                                                                                      |
| V600            | If REGISTERED VEHICLE OWNER equals 9, then REGISTRATION STATE should equal 99.                                                                                                                                                                                                              |
| V60P            | If VEHICLE CONFIGURATION equals 07, then <b>vPIC BODY CLASS must equal 066 (Truck-Tractor), or FINAL STAGE BODY CLASS must equal 066 (Truck-Tractor)</b> , and VEHICLE TRAILING must equal 2.                                                                                               |
| V61P            | If VEHICLE CONFIGURATION equals 08, then <b>vPIC BODY CLASS must equal 066 (Truck-Tractor), or FINAL STAGE BODY CLASS must equal 066 (Truck-Tractor)</b> , and VEHICLE TRAILING must equal 3.                                                                                               |
| V620            | If CRASH MONTH is between January and March, then the VEHICLE MODEL YEAR should NOT be greater than the CRASH YEAR unless it equals 9998 or 9999 (contact Coding Assistance through the CDAN Helpdesk).                                                                                     |
| V62P            | If <b>VEHICLE TRAILING equals 0 and</b> CARGO BODY TYPE equals 01-08, 97, 98, and VEHICLE IDENTIFICATION NUMBER does not equal 8s or 9s, then <b>POWER UNIT GVWR_from and GVWR_to must equal 13, 14, 15, 16, 17, or 18.</b>                                                                 |
| V630            | If REGISTRATION STATE equals 00, 92, then REGISTERED VEHICLE OWNER should NOT equal 5.                                                                                                                                                                                                      |
| V65P            | If <b>POWER UNIT GVWR equals 13, 14, 15, 16, 17, or 18</b> , then VEHICLE CONFIGURATION must not equal 00 and CARGO BODY TYPE must not equal 00.                                                                                                                                            |
| V670            | If REGISTERED VEHICLE OWNER equals 1, 2, then REGISTRATION STATE should NOT equal 99.                                                                                                                                                                                                       |
| V68P            | If CARGO BODY TYPE equals 12, then VEHICLE TRAILING must equal 5.                                                                                                                                                                                                                           |
| V700            | If ROLLOVER equals 2, then CRASH TYPE should equal 01-10, 14, 98 or 99 for this vehicle.                                                                                                                                                                                                    |
| V74P            | If UNIT TYPE equals 1, and ROLLOVER equals 1, 2, 9, or LOCATION OF ROLLOVER equals 1-7, 9, then at least one SEQUENCE OF EVENTS must equal 01 for this vehicle.                                                                                                                             |
| V750            | If UNDERRIDE/OVERRIDE equals 1-3, then FIRST HARMFUL EVENT or at least one SEQUENCE OF EVENTS (for this vehicle) should equal 12, 55.                                                                                                                                                       |
| V75P            | If ROLLOVER is not blank, then LOCATION OF ROLLOVER must not be blank.                                                                                                                                                                                                                      |
| V760            | If UNDERRIDE/OVERRIDE equals 4-6, then FIRST HARMFUL EVENT or at least one SEQUENCE OF EVENTS (for this vehicle) should equal 14, 45.                                                                                                                                                       |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                                                                                                                      |
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| V76P            | If ROLLOVER is blank, then LOCATION OF ROLLOVER must be blank.                                                                                                                                                                                                                                                                                                                                            |
| V770            | If UNDERRIDE/OVERRIDE equals 7, then at least one SEQUENCE OF EVENTS (for this vehicle) must equal 12, 55.                                                                                                                                                                                                                                                                                                |
| V77P            | If ROLLOVER equals 1, 2, 9, then LOCATION OF ROLLOVER must equal 1-7, 9.                                                                                                                                                                                                                                                                                                                                  |
| V780            | If UNDERRIDE/OVERRIDE equals 8, then at least one SEQUENCE OF EVENTS (for this vehicle) must equal 14, 45.                                                                                                                                                                                                                                                                                                |
| V78P            | If ROLLOVER equals 0, then LOCATION OF ROLLOVER must equal 0.                                                                                                                                                                                                                                                                                                                                             |
| V790            | If <b>vPIC BODY CLASS</b> equals <b>002 (Minivan)</b> , and <b>HM1</b> equals <b>1</b> , then VEHICLE CONFIGURATION should equal 00, and CARGO BODY TYPE should equal 00.                                                                                                                                                                                                                                 |
| V791            | If <b>vPIC BODY CLASS</b> equals <b>998 or 999</b> and <b>POWER UNIT GVWR_From</b> is equal to <b>98 or 99</b> , AND <b>POWER UNIT GVWR_To</b> equals <b>98 or 99</b> , then VEHICLE CONFIGURATION must equal <b>99</b> and <b>CARGO BODY TYPE</b> must equal <b>99</b> .                                                                                                                                 |
| V79P            | If ROLLOVER equals 2, and FIRST HARMFUL EVENT equals 01, then CRASH TYPE must equal 01-10, 14, 15, or 98 for the vehicle involved in the FIRST HARMFUL EVENT.                                                                                                                                                                                                                                             |
| V800            | If <b>NCSA BODY TYPE</b> equals 21, 22, 28, 29, then VEHICLE CONFIGURATION should equal 00, 04, 10, 20, 21, 99, and CARGO BODY TYPE should equal 00, 01, 22, 99.                                                                                                                                                                                                                                          |
| V810            | If <b>vPIC BODY CLASS</b> equals <b>060 (Pickup)</b> , or <b>FINAL STAGE BODY CLASS</b> equals <b>060 (Pickup)</b> , and <b>POWER UNIT GVWR_From</b> equals <b>13, 14, or 15</b> , and <b>POWER UNIT GVWR_To</b> equals <b>13, 14, or 15</b> , and VEHICLE TRAILING equals 1-4, then VEHICLE CONFIGURATION should equal 04, and CARGO BODY TYPE should equal 01, 03, 04, 09.                              |
| V840            | If <b>vPIC BODY CLASS</b> equals <b>016 (Bus)</b> , <b>068 (Streetcar / Trolley)</b> , or <b>073 (Bus-School Bus)</b> , or <b>FINAL STAGE BODY CLASS</b> equals <b>016 (Bus)</b> , <b>068 (Streetcar / Trolley)</b> , or <b>073 (Bus-School Bus)</b> , and <b>POWR UNIT GVWR From_ and GVWR_To</b> equals <b>13-18</b> , then VEHICLE CONFIGURATION should equal 21, and CARGO BODY TYPE should equal 22. |
| V850            | If <b>vPIC BODY CLASS</b> equals <b>111 (Step Van / Walk-in Van)</b> , or <b>FINAL STAGE BODY CLASS</b> equals <b>111 (Step Van / Walk-in Van)</b> , and <b>POWER UNIT GVWR From_ and GVWR_To</b> equals <b>13-18</b> , then VEHICLE CONFIGURATION should equal 01 or 04, and CARGO BODY TYPE should equal 01.                                                                                            |
| V860            | If HIT-AND-RUN equals 0, and <b>vPIC BODY CLASS</b> equals <b>011 (Truck)</b> or <b>FINAL STAGE BODY CLASS</b> equals <b>011 (Truck)</b> , then VEHICLE CONFIGURATION should equal 01, 02, or 04, and CARGO BODY TYPE should equal 01-10, 12, or 96-98.                                                                                                                                                   |
| V870            | If <b>vPIC BODY CLASS</b> equals <b>108 (Motorhome)</b> , or <b>FINAL STAGE BODY CLASS</b> equals <b>108 (Motorhome)</b> , and <b>POWER UNIT GVWR From_ and GVWR_To</b> equals <b>13-18</b> , then VEHICLE CONFIGURATION should equal 19, and CARGO BODY TYPE should equal 97.                                                                                                                            |
| V880            | If <b>vPIC BODY CLASS</b> equals <b>066 (Truck-Tractor)</b> , or <b>FINAL STAGE BODY CLASS</b> equals <b>066 (Truck-Tractor)</b> , then VEHICLE CONFIGURATION should equal 05-08 or 19, and CARGO BODY TYPE should equal 01-04, 06-12, 96-98.                                                                                                                                                             |
| V881            | If <b>HIT AND RUN</b> equals <b>1</b> , then <b>VEHICLE REMOVAL</b> should not equal <b>8 or 9</b> .                                                                                                                                                                                                                                                                                                      |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| V900            | If <b>vPIC BODY CLASS equals 108 (Motorhome), or FINAL STAGE BODY CLASS equals 108 (Motorhome), and POWER UNIT GVWR equals 98 or 99</b> , then VEHICLE CONFIGURATION should equal 99, and CARGO BODY TYPE should equal 99.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| V910            | If <b>vPIC BODY CLASS equals 99 (Unknown), and POWER UNIT GVWR From_ and GVWR_To equals 13-18</b> , then VEHICLE CONFIGURATION should equal 19, and CARGO BODY TYPE should equal 98.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| V915            | If <b>vPIC BODY CLASS equals 060 (Pickup), or FINAL STAGE BODY CLASS equals 060 (Pickup), and POWER UNIT GVWR From_ and GVWR_To equals 13-18</b> , and VEHICLE TRAILING equals 0, then VEHICLE CONFIGURATION should equal 01, and CARGO BODY TYPE should equal 97.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| V920            | If <b>vPIC BODY CLASS equals 011 (Truck) or 060 (Pickup), or FINAL STAGE BODY CLASS equals 011 (Truck) or 060 (Pickup), and POWER UNIT GVWR From_ and GVWR_To equals 98 or 99</b> , then VEHICLE CONFIGURATION should equal 04, 99, and CARGO BODY TYPE should equal 98 or 99.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| V922            | If <b>NCSA MAKE equals 98, 99, and NCSA MODEL equals ____</b> , then <b>VEHICLE</b> MODEL YEAR should equal ____ ( <b>NCSA MODEL</b> and <b>VEHICLE</b> MODEL YEAR should be valid according to Vehicle Tables).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| V930            | If VEHICLE CONFIGURATION equals 00, or CARGO BODY TYPE equals 00, then <b>POWER UNIT GVWR From_ and GVWR_To must not equal 13-18</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| V940            | If HM1 equals 2, then VEHICLE CONFIGURATION should not equal 00, 99, and CARGO BODY TYPE should not equal 00, 99.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| V941            | If <b>vPIC BODY CLASS equals 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 084 (Off-road Vehicle - Dirt Bike / Off-Road), 086 (Off-road Vehicle - Enduro (Off-road long-distance racing)), 088 (Off-road Vehicle - Go Kart), 097 (Off-road Vehicle - Snowmobile), 113 (Off-road Vehicle - Motocross (Off-road, short-distance, closed track racing)), 126 (Off-road Vehicle - Farm Equipment), 127 (Off-road Vehicle - Construction Equipment)</b> , then VEHICLE LICENSE PLATE NUMBER should equal 0000000000.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| V951            | If <b>vPIC BODY CLASS equals 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport/Adventure/Supermoto/On/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 097 (Off-road Vehicle - Snowmobile), 098 (Motorcycle - Street), 104 (Motorcycle - Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motocross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle)</b> , then <b>RESTRAINT SYSTEM USE Subfield 1-Type of Restraint System in Use must equal 20 and Subfield 2 - Any Indication of Mis-Use must equal 7</b> . |
| V960            | If REGISTRATION STATE equals 99, then REGISTERED VEHICLE OWNER should equal 5, 6, 9.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |



| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                             |
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| V961            | If <b>NCSA MAKE</b> equals 98, 99, and <b>NCSA MODEL</b> equals ___, then <b>NCSA BODY TYPE</b> should equal ___ ( <b>NCSA MODEL</b> and <b>NCSA BODY TYPE</b> should be valid according to the Vehicle Tables).                                                                                 |
| V980            | If <b>POWER UNIT GVWR_From</b> and <b>POWER UNIT GVWR_To</b> equals 13-18, or <b>VEHICLE CONFIGURATION</b> equals 20 or 21, or <b>HM1</b> equals 2, then <b>MOTOR CARRIER IDENTIFICATION NUMBER</b> must not equal 00-000000000 or 99-999999999.                                                 |
| V981            | If <b>VEHICLE CONFIGURATION</b> equals 00, then <b>MOTOR CARRIER IDENTIFICATION NUMBER</b> <b>must</b> equal 00-000000000.                                                                                                                                                                       |
| V982            | If <b>MOTOR CARRIER IDENTIFICATION NUMBER</b> does not equal 00-000000000, then <b>VEHICLE CONFIGURATION</b> <b>must</b> not equal 00.                                                                                                                                                           |
| V983            | If <b>VEHICLE TRAILING</b> equals 3, then <b>STATE</b> should equal 04, 08, 16, 18, 20, 30-32, 38-41, 46, 49.                                                                                                                                                                                    |
| V984            | If <b>STATE</b> does not equal 04, 08, 16, 18, 20, 30-32, 38-41, 46, 49, then <b>VEHICLE TRAILING</b> should not equal 3.                                                                                                                                                                        |
| V985            | If <b>VEHICLE TRAILING</b> equals 5, then <b>VEHICLE CONFIGURATION</b> should not equal 00, 10, 19-21.                                                                                                                                                                                           |
| V986            | If <b>VEHICLE TRAILING</b> equals 3, then <b>PSU</b> should equal OH, OK, SD, UT.                                                                                                                                                                                                                |
| V987            | If <b>vPIC MAKE</b> equals 99998 (Not Reported) or 99999 (Unknown) and <b>vPIC MODEL</b> equals 99998 (Not Reported) or 99999 (Unknown) and <b>vPIC BODY CLASS</b> equals 998 (Not Reported) or 999 (Unknown), then <b>MOTOR CARRIER IDENTIFICATION NUMBER</b> <b>should</b> equal 99-999999999. |
| V989            | If <b>vPIC MAKE</b> equals 99998 (Not Reported) or 99999 (Unknown), and <b>vPIC MODEL</b> equals 99998 (Not Reported) or 99999 (Unknown), and <b>vPIC BODY CLASS</b> equals 998 (Not Reported) or 999 (Unknown), then <b>BUS USE</b> <b>should</b> equal 99.                                     |
| V990            | If any <b>SEQUENCE OF EVENTS</b> equals 61, then <b>CONTRIBUTING CIRCUMSTANCES, MOTOR VEHICLE</b> should not equal 00.                                                                                                                                                                           |
| V991            | If <b>VEHICLE TRAILING</b> equals 0, then <b>VEHICLE CONFIGURATION</b> must not equal 04, 06-08.                                                                                                                                                                                                 |
| V992            | If <b>VEHICLE TRAILING</b> equals 1, then <b>VEHICLE CONFIGURATION</b> must not equal 01, 02, 05, 07 or 08.                                                                                                                                                                                      |
| V993            | If <b>VEHICLE TRAILING</b> equals 2, then <b>VEHICLE CONFIGURATION</b> must not equal 01, 02, 05, 06 or 08.                                                                                                                                                                                      |
| V994            | If <b>VEHICLE TRAILING</b> equals 3, then <b>VEHICLE CONFIGURATION</b> must not equal 01, 02, 05-07.                                                                                                                                                                                             |
| V995            | If <b>VEHICLE TRAILING</b> equals 4, then <b>VEHICLE CONFIGURATION</b> must not equal 01, 02, 05-08.                                                                                                                                                                                             |
| V997            | If <b>VEHICLE TRAILING</b> equals 6, then <b>VEHICLE CONFIGURATION</b> must not equal 04, 06-08.                                                                                                                                                                                                 |
| V998            | If <b>VEHICLE TRAILING</b> equals 9, then <b>VEHICLE CONFIGURATION</b> must not equal 04-07 or 08.                                                                                                                                                                                               |
| VA00            | If <b>HM1</b> equals 1, then <b>HM2</b> , <b>HM5</b> must equal 0, <b>HM4</b> must equal 00 and <b>HM3</b> must equal 0000.                                                                                                                                                                      |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| VA10            | If HM1 equals 2, then HM2, HM5 must not equal 0, HM4 must not equal 00 and HM3 must not equal 0000.                                                                                                                                                                                                                                                                                                                                                                                                                                |
| VA20            | If any of HM2, HM5 equals 0, or HM4 equals 00 or HM3 equals 0000, then HM1 must equal 1.                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| VA30            | If any of HM2, HM5 does not equal 0, or HM4 does not equal 00, or HM3 does not equal 0000, then HM1 must equal 2.                                                                                                                                                                                                                                                                                                                                                                                                                  |
| VA40            | If HM5 equals 2, then HM3 should not equal 8888 or HM4 should not equal 88.                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| VA50            | If HM3 equals 8888, and HM4 equals 88, then HM5 should not equal 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| VA60            | If HM3 does not equal 0000, 8888, or HM4 does not equal 00, 88, then HM2 should equal 2.                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| VA70            | If <b>POWER UNIT</b> GVWR equals <b>11 or 12</b> , and HM2 equals 2, then VEHICLE CONFIGURATION must equal 10.                                                                                                                                                                                                                                                                                                                                                                                                                     |
| VA80            | HM3 - 4-Digit Hazardous Materials Identification Number must contain 4 digits.                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| VA90            | If MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S)-Subfield 1 equals 01, then MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S)-Subfield 2 and MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S)-Subfield 3 must not equal 00, 98, or 99.                                                                                                                                                                                                                                                                                                                |
| VA91            | If MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S)-Subfield 1 equals 00, then MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S)-Subfield 2 and MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S)-Subfield 3 must equal 00.                                                                                                                                                                                                                                                                                                                               |
| VA92            | If MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S)-Subfield 1 equals 98, then MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S)-Subfield 2 and MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S)-Subfield 3 must equal 98.                                                                                                                                                                                                                                                                                                                               |
| VA93            | If MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S)-Subfield 1 equals 99, then MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S)-Subfield 2 and MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S)-Subfield 3 must equal 99.                                                                                                                                                                                                                                                                                                                               |
| VA94            | If MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S)-Subfield 1 equals 01 and MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S)-Subfield 2 equals ____ [2-5], then MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S)-Subfield 3 must not be a greater number than Subfield 2 unless equal to 06, 09, or 90.                                                                                                                                                                                                                                                |
| VA95            | If VEHICLE MODEL YEAR is less than 2000, then MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S) Subfield 1 must equal 00.                                                                                                                                                                                                                                                                                                                                                                                                                  |
| VA96            | If VEHICLE MODEL YEAR is between 2000 and 2012 and MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S)-Subfield 1 equals 01, then MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S)-Subfield 2 must equal 01.                                                                                                                                                                                                                                                                                                                                        |
| VA97            | If MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S)-Subfield 2 equals 1, then MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S)-Subfield 3 must equal 1, 09, 90.                                                                                                                                                                                                                                                                                                                                                                                  |
| VA98            | If <b>vPIC BODY CLASS</b> equals <b>006 (Motorcycle - Standard), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring / Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 109 (Motorcycle - Cross Country), or 125 (Motorcycle - Unknown Body Type)</b> , and VEHICLE MODEL YEAR is less than <b>2021</b> , then MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S) Subfield 1 must equal 00. |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| VA99            | If <b>vPIC BODY CLASS</b> equals 04 ( <i>Low Speed Vehicle (LSV) / Neighborhood Electric Vehicle (NEV)</i> ), 012 ( <i>Motorcycle - Scooter</i> ), 069 ( <i>Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)</i> ), 084 ( <i>Off-Road Vehicle - Dirt Bike/Off-Road</i> ), 086 ( <i>Off-Road Vehicle - Enduro (Off-road long-distance racing)</i> ), 087 ( <i>Motorcycle - Small/Minibike</i> ), 088 ( <i>Off-road Vehicle - Go Kart</i> ), 097 ( <i>Off-road Vehicle - Snowmobile</i> ), 104 ( <i>Moped</i> ), 105 ( <i>Off-road Vehicle - Recreational Off-Road Vehicle (ROV)</i> ), 110 ( <i>Motorcycle - Underbone</i> ), 113 ( <i>Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)</i> ), 114 ( <i>Motorcycle - Competition</i> ), 124 ( <i>Off-road Vehicle - Golf Cart</i> ), 126 ( <i>Off-road Vehicle - Farm Equipment</i> ), 127 ( <i>Off-road Vehicle - Construction Equipment</i> ), 996 ( <i>Motorized Bicycle</i> ), or 997 ( <i>Other</i> ), then MOTOR VEHICLE AUTOMATED DRIVING SYSTEM(S) Subfield 1 must equal 00. |
| VB60            | If PRE-IMPACT STABILITY equals 0, then PRE-IMPACT LOCATION must equal 0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| VB70            | If PRE-IMPACT STABILITY is not equal to 0, then PRE-IMPACT LOCATION must not equal 0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| VBA0            | If PRE-IMPACT LOCATION equals 1, then PRE-IMPACT STABILITY should equal 1, 2, or 9.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| VH06            | If <b>vPIC BODY CLASS</b> equals 083 ( <i>Motorcycle - Trike</i> ), 100 ( <i>Motorcycle - Enclosed Three Wheeled / Enclosed Autocycle</i> ), or 103 ( <i>Motorcycle - Unenclosed Three Wheeled / Open Autocycle</i> ), then RELATED FACTORS-VEHICLE LEVEL must not equal 030.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| VH10            | If PRE-IMPACT LOCATION equals 0, then ATTEMPTED AVOIDANCE MANEUVER must equal 00.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| VH20            | If ATTEMPTED AVOIDANCE MANEUVER equals 00, then PRE-IMPACT LOCATION must equal 0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| VH25            | If UNIT TYPE equals 4, then REGISTERED VEHICLE OWNER should not equal 6, 9.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| VH70            | If UNIT TYPE equals 2-4, then elements JACKKNIFE, TRAVEL SPEED, AND SEQUENCE OF EVENTS must all be left blank.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| VH75            | If UNIT TYPE equals 4, then VEHICLE CONFIGURATION should not equal 05, 20, 21, 10.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| VH80            | If UNIT TYPE equals 4, then CARGO BODY TYPE should not equal 06, 07, 11, 12, 22.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| VH81            | If any DAMAGED AREAS equals 15 or 99, then only that one value must be coded.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| VH82            | If EXTENT OF DAMAGE for this vehicle equals 2, 4, 6, then DAMAGED AREAS must not equal 15.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| VH83            | If the only harmful SEQUENCE OF EVENTS for this vehicle equals 04-06, then DAMAGED AREAS should equal 15.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| VH84            | If the only harmful SEQUENCE OF EVENTS for this vehicle equals 01-03, 16, 44, 51, 72, 98, then DAMAGED AREAS should not equal 15.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| VH85            | If AREAS OF IMPACT-INITIAL CONTACT POINT equals 61-63, then DAMAGED AREAS should include at least one of the codes 07-11, or DAMAGED AREAS should equal 15 or 99.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| VH86            | If AREAS OF IMPACT-INITIAL CONTACT POINT equals 81-83, then DAMAGED AREAS should include at least one of the codes 01-05, or DAMAGED AREAS should equal 15 or 99.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| VH87            | If HIT-AND-RUN equals 0, and AREAS OF IMPACT-INITIAL CONTACT POINT equals 01-14, then the corresponding code should be included in DAMAGED AREAS or DAMAGED AREAS should equal 15.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| <b>VP01</b>     | <i>If VEHICLE IDENTIFICATION NUMBER is not equal to 0000000000000000, 8888888888888888, or 9999999999999999, Then vPIC BODY CLASS must not equal 61 (Trailer) or 116 (Incomplete Trailer Chassis).</i>                                                                                                                                                                                                                                                                                                                         |
| <b>VP02</b>     | <i>If VEHICLE IDENTIFICATION NUMBER is not equal to 0000000000000000, 8888888888888888, or 9999999999999999, then vPIC MAKE must not equal to a Trailer Make.</i>                                                                                                                                                                                                                                                                                                                                                              |
| <b>VP03</b>     | <i>If VEHICLE IDENTIFICATION NUMBER decodes with error code only in (1, 400), then VPIC MAKE, VPIC MODEL, VPIC BODY CLASS, NCSA MAKE, NCSA MODEL, and NCSA BODY TYPE must equal the corresponding decoded data values.</i>                                                                                                                                                                                                                                                                                                     |
| <b>VP04</b>     | <i>If any one of the fields vPIC MAKE, vPIC MODEL, vPIC BODY CLASS, VEHICLE MODEL YEAR, NCSA MAKE, NCSA MODEL, and NCSA BODY TYPE equals Not Reported (vPIC MAKE [99998], vPIC MODEL [99998], vPIC BODY CLASS [998], VEHICLE MODEL YEAR [9998], NCSA MAKE [97], NCSA MODEL [997], NCSA BODY TYPE [98]), then the other six must also equal Not Reported (vPIC MAKE [99998], vPIC MODEL [99998], vPIC BODY CLASS [998], VEHICLE MODEL YEAR [9998], NCSA MAKE [97], NCSA MODEL [997], NCSA BODY TYPE [98]).</i>                  |
| <b>VP05</b>     | <i>If vPIC MAKE is not 99997, 99998, 99999, and equals ___, and vPIC MODEL equals ___, then VEHICLE MODEL YEAR must equal ___, or CRASH YEAR plus 1.</i>                                                                                                                                                                                                                                                                                                                                                                       |
| <b>VP06</b>     | <i>If any one of the fields vPIC MAKE, vPIC MODEL, vPIC BODY CLASS, VEHICLE MODEL YEAR, NCSA MAKE, NCSA MODEL and NCSA BODY TYPE does not equal Not Reported (vPIC MAKE [99998], vPIC MODEL [99998], vPIC BODY CLASS [998], VEHICLE MODEL YEAR [9998], NCSA MAKE [97], NCSA MODEL [997], NCSA BODY TYPE [98]), then the other six must also not be coded as Not Reported (vPIC MAKE [99998], vPIC MODEL [99998], vPIC BODY CLASS [998], VEHICLE MODEL YEAR [9998], NCSA MAKE [97], NCSA MODEL [997], NCSA BODY TYPE [98]).</i> |
| <b>VP07</b>     | <i>UNLIKELY: vPIC MAKE equals 99998 if HIT AND RUN does not equal 1.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>VP08</b>     | <i>If vPIC MAKE equals 99999, then vPIC MODEL must equal 99999.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>VP09</b>     | <i>If vPIC MAKE equals 99997, then vPIC MODEL must equal 99997.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>VP10</b>     | <i>If vPIC MAKE equals 99997, then NCSA MAKE must equal 98 (Other Make).</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>VP11</b>     | <i>If vPIC MAKE equals 99999, then NCSA MAKE must equal 99 (Unknown Make).</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>VP12</b>     | <i>UNLIKELY: FINAL STAGE BODY CLASS equals 997.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>VP13</b>     | <i>UNLIKELY: vPIC MAKE equals 99997.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>VP14</b>     | <i>UNLIKELY: vPIC MODEL equals 99997 and vPIC MAKE does not equal 99997, 99998, or 99999.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>VP15</b>     | <i>UNLIKELY: vPIC MODEL equals 99997 and NCSA MODEL does not equal 398 (Other (Automobile)), 498 (Other (Light Trucks)), 598 (Other (Low Speed Vehicle (LSV)/Neighborhood Electric Vehicle (NEV))), 709 (Unknown cc (Motorcycles)), 739 (Unknown cc (ATV)), 898 (Other (Medium/Heavy Trucks)), 988 (Other (Bus)), or 998 (Other (Vehicle)).</i>                                                                                                                                                                                |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| VP16            | <b>UNLIKELY: vPIC MODEL equals 99999 and NCSA MODEL does not equal 399 (Unknown (Automobile)), 499 (Unknown (Light Trucks)), 599 (Unknown (Low Speed Vehicle (LSV)/Neighborhood Electric Vehicle (NEV))), 709 (Unknown cc (Motorcycles)), 739 (Unknown cc (ATV)), 884 (Medium/Heavy Trucks - Unknown engine location), 898 (Other, Unknown, truck over 10,000 lbs. GVWR), 989 (Unknown (Bus)), or 999 (Unknown).</b>                                                                                                                                                             |
| VP17            | <b>If vPIC BODY CLASS equals 104 (Motorcycle - Moped), then NCSA BODY TYPE must equal 81 (Moped or Motorized Bicycle).</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| VP18            | <b>If vPIC BODY CLASS equals 012 (Motorcycle - Scooter), then NCSA BODY TYPE must equal 84 (Motor Scooter).</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| VP19            | <b>If vPIC BODY CLASS equals 103 (Motorcycle - Unenclosed Three Wheeled/Open Autocycle), then NCSA BODY TYPE must equal 85 (Unenclosed Three Wheel Motorcycle/Unenclosed Autocycle (1 Rear Wheel)).</b>                                                                                                                                                                                                                                                                                                                                                                          |
| VP20            | <b>If vPIC BODY CLASS equals 100 (Motorcycle - Enclosed Three Wheeled/Enclosed Autocycle), then NCSA BODY TYPE must equal 86 (Enclosed Three Wheel Motorcycle/Enclosed Autocycle (1 Rear Wheel)).</b>                                                                                                                                                                                                                                                                                                                                                                            |
| VP21            | <b>If vPIC BODY CLASS equals 105 (Off-road Vehicle - Recreational Off-Road Vehicle (ROV)), then NCSA BODY TYPE must equal 96 (Recreational Off-Highway Vehicle (ROV)).</b>                                                                                                                                                                                                                                                                                                                                                                                                       |
| VP22            | <b>If vPIC BODY CLASS equals 084 (Off-Road Vehicle - Dirt Bike/Off-Road), 086 (Off-Road Vehicle - Enduro (Off-road long-distance racing)), or 113 (Off-road Vehicle - Motorcross (Off-road short distance, closed track racing)), then NCSA BODY TYPE must equal 83 (Off-Road Motorcycle).</b>                                                                                                                                                                                                                                                                                   |
| VP23            | <b>If vPIC BODY CLASS equals 088 (Off-road Vehicle - Go Kart), then NCSA BODY TYPE must equal 97 (Other Vehicle Type).</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| VP24            | <b>If vPIC BODY CLASS equals 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), then NCSA BODY TYPE must equal 90 (ATV/ATC (All-Terrain Cycle)).</b>                                                                                                                                                                                                                                                                                                                                                                                                         |
| VP25            | <b>If vPIC BODY CLASS equals 006 (Motorcycle - Standard), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 085 (Motorcycle - Dual Sport/Adventure/Supermoto/On/Off-Road), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 098 (Motorcycle - Street), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 114 (Motorcycle - Competition), or 125 (Motorcycle - Unknown Body Type), then NCSA BODY TYPE must equal 80 (Two Wheel Motorcycle (excluding motor scooters)) or 89 (Unknown Motored Cycle Type).</b> |
| VP26            | <b>If vPIC BODY CLASS equals 087 (Motorcycle - Small/Minibike), then NCSA BODY TYPE must equal 88 (Other Motored Cycle (mini-bike, pocket motorcycles "pocket bikes")).</b>                                                                                                                                                                                                                                                                                                                                                                                                      |
| VP27            | <b>If vPIC BODY CLASS equals 083 (Motorcycle - Trike), then NCSA BODY TYPE must equal 82 (Three-Wheeled Motorcycle (2 Rear Wheels)) or 87 (Unknown Three Wheel Motorcycle Type).</b>                                                                                                                                                                                                                                                                                                                                                                                             |
| VP28            | <b>If vPIC BODY CLASS equals 097 (Off-road Vehicle - Snowmobile), then NCSA BODY TYPE must equal 91 (Snowmobile).</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| VP29            | <b>If vPIC BODY CLASS equals 004 (Low Speed Vehicle (LSV)/Neighborhood Electric Vehicle (NEV)), then NCSA BODY TYPE must equal 94 (Low Speed Vehicle (LSV)/Neighborhood Electric Vehicle (NEV)).</b>                                                                                                                                                                                                                                                                                                                                                                             |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| <b>VP30</b>     | <b><i>If vPIC BODY CLASS equals 124 (Off-road Vehicle - Golf Cart), then NCSA BODY TYPE must equal 95 (Golf Cart).</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>VP31</b>     | <b><i>If vPIC BODY CLASS equals 998 (Not Reported), then NCSA BODY TYPE must equal 98 (Not Reported).</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>VP32</b>     | <b><i>If vPIC BODY CLASS equals 999 (Unknown), then NCSA BODY TYPE must equal 09 (Other or Unknown Automobile Type), 19 (Utility Vehicle, Unknown Body Type), 29 (Unknown van type), 39 (Unknown (pickup style)), 48 (Unknown light truck type), 49 (Unknown light vehicle type), 59 (Unknown Bus Type), 78 (Unknown medium/heavy truck type), 79 (Unknown truck type (light/medium/heavy), 87 (Unknown Three Wheel Motorcycle Type), 89 (Unknown motored cycle type), or 99 (Unknown Body Type).</i></b>                                                                                                                                                                                                                                                                |
| <b>VP33</b>     | <b><i>If vPIC BODY CLASS equals 108 (Motorhome) or 078 (Incomplete - Motor Home Chassis) and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 13-18, then NCSA BODY TYPE must equal 65 (Medium/Heavy Vehicle Based Motor Home) or 58 (Other Bus Type).</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>VP34</b>     | <b><i>If vPIC BODY CLASS equals 108 (Motorhome) or 078 (Incomplete - Motor Home Chassis) and POWER UNIT GVWR_From and POWER UNIT GVWR_To equal 11 or 12, then NCSA BODY TYPE must equal 42 (Light Vehicle Based Motor Home (chassis mounted)).</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>VP35</b>     | <b><i>If vPIC BODY CLASS equals 066 (Truck-Tractor), then NCSA BODY TYPE must equal 66 (Truck-Tractor (Cab only or with any number of trailing units; any weight)).</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>VP36</b>     | <b><i>If vPIC BODY CLASS equals 111 (Step Van/Walk-in Van) and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 13-18, then NCSA BODY TYPE must equal 60 (Step Van (GVWR Greater than 10,000 lbs.)).</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>VP37</b>     | <b><i>If vPIC BODY CLASS equals 111 (Step Van/Walk-in Van) and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 11 or 12, then NCSA BODY TYPE must equal 22 (Step Van or Walk-In Van (GVWR less than or equal to 10,000 lbs.)).</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>VP38</b>     | <b><i>If vPIC BODY CLASS equals 011 (Truck), and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 13-18, then NCSA BODY TYPE must equal 61 (Single-Unit Straight Truck or Cab-chassis (GVWR range 10,001 to 19,500 lbs.)), 62 (Single-Unit Straight Truck or Cab-chassis (GVWR range 19,501 to 26,000 lbs.)), 63 (Single-Unit Straight Truck or Cab-chassis (GVWR greater than 26,000 lbs.)), 64 (Single-Unit Straight Truck or Cab-Chassis (GVWR unknown)), 67 (Medium/Heavy Pickup (GVWR greater than 10,000 lbs.)), 71 (Unknown if single-unit or combination unit Medium Truck (GVWR range 10,001 lbs. to 26,000 lbs.)), 72 (Unknown if single-unit or combination unit Heavy Truck (GVWR greater than 26,000 lbs.)), or 78 (Unknown medium/heavy truck type).</i></b> |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| <b>VP39</b>     | <i>If vPIC BODY CLASS equals 074 (Incomplete - Chassis Cab (Number of Cab Unknown)), 070 (Incomplete - Chassis Cab (Double Cab)), 063 (Incomplete - Chassis Cab (Single Cab)), 112 (Incomplete - Commercial Chassis), 067 (Incomplete - Stripped Chassis), 065 (Incomplete), 064 (Incomplete - Glider), 062 (Incomplete - Cutaway) and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 13-18, then NCSA BODY TYPE must equal 50 (School Bus), 51 (Cross Country/Intercity Bus), 52 (Transit Bus (City Bus)), 55 (Van-Based Bus GVWR greater than 10,000 lbs.), 58 (Other Bus Type), 59 (Unknown Bus Type), 60 (Step Van (GVWR greater than 10,000 lbs.)), 61 (Single-Unit Straight Truck or Cab-chassis (GVWR range 10,001 to 19,500 lbs.)), 62 (Single-Unit Straight Truck or Cab-chassis (GVWR range 19,501 to 26,000 lbs.)), 63 (Single-Unit Straight Truck or Cab-chassis (GVWR greater than 26,000 lbs.)), 64 (Single-Unit Straight Truck or Cab-Chassis (GVWR unknown)), 65 (Medium/Heavy Vehicle Based Motor Home), 66 (Truck-tractor (Cab only or with any number of trailing units; any weight)), 67 (Medium/Heavy Pickup (GVWR greater than 10,000 lbs.)), 71 (Unknown if single-unit or combination unit Medium Truck (GVWR range 10,001 lbs. to 26,000 lbs.)), 72 (Unknown if single-unit or combination unit Heavy Truck (GVWR greater than 26,000 lbs.)), 78 (Unknown medium/heavy truck type), or 99 (Unknown Body Type).</i>                           |
| <b>VP40</b>     | <i>If vPIC BODY CLASS equals 074 (Incomplete - Chassis Cab (Number of Cab Unknown)), 070 (Incomplete - Chassis Cab (Double Cab)), 063 (Incomplete - Chassis Cab (Single Cab)), 112 (Incomplete - Commercial Chassis), 067 (Incomplete - Stripped Chassis), 065 (Incomplete), 064 (Incomplete - Glider), 062 (Incomplete - Cutaway) and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 11-12, then NCSA BODY TYPE must equal 01 (Convertible (excludes sunroof, t-bar)), 02 (2-Door Sedan, Hardtop, Coupe), 03 (3-Door/2-Door Hatchback), 04 (4-Door Sedan, Hardtop), 05 (5-Door/4-Door Hatchback), 06 (Station Wagon (excluding van and truck based), 07 (Hatchback, Number of Doors Unknown), 08 (Sedan/Hardtop, Number of Doors Unknown), 09 (Other or Unknown Automobile Type), 10 (Auto-Based Pickup), 11 (Auto-Based Panel), 12 (Large Limousine), 13 (Three-Wheel Automobile or Automobile Derivative), 14 (Compact Utility), 15 (Large Utility), 16 (Utility Station Wagon), 17 (3-Door Coupe), 19 (Utility Vehicle, Unknown Body Type), 20 (Minivan), 21 (Large Van), 22 (Step-van or walk-in van (GVWR less than or equal to 10,000 lbs.)), 28 (Other van type), 29 (Unknown Van Type), 33 (Convertible pickup), 34 (Light Pickup), 39 (Unknown (pickup style) light conventional truck type), 40 (Cab Chassis Based), 41 (Truck Based Panel), 45 (Other light conventional truck type), 48 (Unknown light truck type), 49 (Unknown light vehicle type).</i> |
| <b>VP41</b>     | <i>If vPIC BODY CLASS equals 011 (Truck), and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 11-12, then NCSA BODY TYPE must equal 40 (Cab Chassis Based), 41 (Truck Based Panel), 45 (Other light conventional truck type), 48 (Unknown light truck type), or 49 (Unknown light vehicle type)).</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>VP42</b>     | <i>If vPIC BODY CLASS equals 060 (Pickup) and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 13-18, then NCSA BODY TYPE should equal 67 (Medium/Heavy Pickup (GVWR greater than 10,000 lbs.)).</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>VP43</b>     | <i>If vPIC BODY CLASS equals 060 (Pickup) and POWER UNIT GVWR_From and POWER UNIT GVWR_To equals 11 or 12, then NCSA BODY TYPE must equal 10 (Auto-Based Pickup), 33 (Convertible pickup), 34 (Light Pickup), or 39 (Unknown (pickup style) light conventional truck type).</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>VP44</b>     | <i>If vPIC BODY CLASS equals 071 (Incomplete - School Bus Chassis) or 073 (Bus - School Bus), then NCSA BODY TYPE must equal 50 (School Bus).</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| VP45            | <i>If vPIC BODY CLASS equals 009 (Van), 095 (Cargo Van), or 015 (Wagon), and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 13-18, then NCSA BODY TYPE must equal 55 (Van-Based Bus GVWR greater than 10,000 lbs.) or 61 (Single-Unit Straight Truck or Cab-chassis (GVWR range 10,001 to 19,500 lbs.)), 62 (Single-Unit Straight Truck or Cab-chassis (GVWR range 19,501 to 26,000 lbs.)), 63 (Single-Unit Straight Truck or Cab-chassis (GVWR greater than 26,000 lbs.)), or 64 (Single-Unit Straight Truck or Cab-Chassis (GVWR unknown)).</i>                                                            |
| VP46            | <i>If vPIC BODY CLASS equals 009 (Van) or 095 (Cargo Van) and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 11 or 12, then NCSA BODY TYPE must equal 06 (Station Wagon [excluding van and truck based]), 14 (Compact Utility), 20 (Minivan), 21 (Large Van), 28 (Other van type), or 29 (Unknown van type).</i>                                                                                                                                                                                                                                                                                             |
| VP47            | <i>If vPIC BODY CLASS equals 016 (Bus), 107 (Incomplete - Bus Chassis), 076 (Incomplete - Motor Coach Chassis), 077 (Incomplete - Shuttle Bus Chassis), 072 (Incomplete - Commercial Bus Chassis), 075 (Incomplete - Transit Bus Chassis), or 068 (Streetcar/Trolley) and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 13-18, then NCSA BODY TYPE must equal 51 (Cross Country/Intercity Bus), 52 (Transit Bus (City Bus)), 55 (Van-Based Bus GVWR greater than 10,000 lbs.), 58 (Other Bus Type), or 59 (Unknown Bus Type).</i>                                                                           |
| VP48            | <i>If vPIC BODY CLASS equals 002 (Minivan), then NCSA BODY TYPE must equal 20 (Minivan).</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| VP49            | <i>If vPIC BODY CLASS equals 001 (Convertible/Cabriolet), 003 (Coupe), 013 (Sedan/Saloon), or 010 (Roadster), then NCSA BODY TYPE should equal 01 (Convertible (excludes sunroof, t-bar)), 02 (2-Door Sedan, Hardtop, Coupe), 03 (3-Door/2-Door Hatchback), 04 (4-Door Sedan, Hardtop), 05 (5-Door/4-Door Hatchback), 06 (Station Wagon (excluding van and truck based), 07 (Hatchback, Number of Doors Unknown), 08 (Sedan/Hardtop, Number of Doors Unknown), 09 (Other or Unknown Automobile Type), 11 (Auto-Based Panel), 13 (Three-Wheel Automobile or Automobile Derivative), or 17 (3-Door Coupe).</i> |
| VP50            | <i>If vPIC BODY CLASS equals 117 (Limousine) and POWER UNIT GVWR_From and POWER UNIT GVWR_To equals 11 or 12, then NCSA BODY TYPE must equal 12 (Large Limousine) or 09 (Other or Unknown Automobile Type).</i>                                                                                                                                                                                                                                                                                                                                                                                              |
| VP51            | <i>If vPIC BODY CLASS equals 005 (Hatchback/Liftback/Notchback), then NCSA BODY TYPE must equal 03 (3-Door/2-Door Hatchback), 05 (5-Door/4-Door Hatchback), 06 (Station Wagon (excluding van and truck based), 07 (Hatchback, Number of Doors Unknown), 09 (Other or Unknown Automobile Type), 14 (Compact Utility), 19 (Utility Vehicle, Unknown Body Type), 20 (Minivan), 21 (Large Van), 48 (Unknown light truck type), or 49 (Unknown light vehicle type).</i>                                                                                                                                           |
| VP52            | <i>If vPIC BODY CLASS equals 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 008 (Crossover Utility Vehicle (CUV)), or 119 (Sport Utility Truck (SUT)) and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 11 or 12, then NCSA BODY TYPE must equal 05 (5-Door/4-Door Hatchback), 06 (Station Wagon (excluding van and truck based )), 14 (Compact Utility), 15 (Large Utility), 16 (Utility Station Wagon), 19 (Utility Vehicle, Unknown Body Type), 34 (Light Pickup), 48 (Unknown light truck type), or 49 (Unknown light vehicle type [automobile, utility, van, or light truck]).</i>     |
| VP53            | <i>If NCSA BODY TYPE equals 92 (Farm Equipment Other Than Trucks), then vPIC BODY CLASS must equal 126 (Off-road Vehicle - Farm Equipment).</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                              |



| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| <b>VP54</b>     | <b><i>If NCSA BODY TYPE equals 93 (Construction Equipment Other Than Trucks), then vPIC BODY CLASS must equal 127 (Off-road Vehicle - Construction Equipment).</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>VP55</b>     | <b><i>If vPIC BODY CLASS equals 062 (Incomplete - Cutaway), 063 (Incomplete - Chassis Cab (Single Cab)), 064 (Incomplete - Glider), 065 (Incomplete), 067 (Incomplete - Stripped Chassis), 070 (Incomplete - Chassis Cab (Double Cab), 071 (Incomplete - School Bus Chassis), 072 (Incomplete - Commercial Bus Chassis), 074 (Incomplete - Chassis Cab (Number of Cab Unknown)), 075 (Incomplete - Transit Bus Chassis), 076 (Incomplete - Motor Coach Chassis), 077 (Incomplete - Shuttle Bus Chassis), 078 (Incomplete - Motor Home Chassis), 107 (Incomplete - Bus Chassis), or 112 (Incomplete - Commercial Chassis), then FINAL STAGE BODY CLASS must not equal 000 (Not Applicable).</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>VP56</b>     | <b><i>If vPIC BODY CLASS equals 016 (Bus), 107 (Incomplete - Bus Chassis), 076 (Incomplete - Motor Coach Chassis), 077 (Incomplete - Shuttle Bus Chassis), 072 (Incomplete - Commercial Bus Chassis), 075 (Incomplete - Transit Bus Chassis), or 068 (Streetcar/Trolley) and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 11-12, then NCSA BODY TYPE must equal 21 (Large Van).</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>VP57</b>     | <b><i>If vPIC BODY CLASS equals 117 (Limousine) and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 13-18, then NCSA BODY TYPE must equal 50 (School Bus), 51 (Cross Country/Intercity Bus), 52 (Transit Bus (City Bus)), 55 (Van-Based Bus GVWR greater than 10,000 lbs.), 58 (Other Bus Type), 59 (Unknown Bus Type), 60 (Step Van (GVWR greater than 10,000 lbs.)), 61 (Single-Unit Straight Truck or Cab-chassis (GVWR range 10,001 to 19,500 lbs.)), 62 (Single-Unit Straight Truck or Cab-chassis (GVWR range 19,501 to 26,000 lbs.)), 63 (Single-Unit Straight Truck or Cab-chassis (GVWR greater than 26,000 lbs.)), 64 (Single-Unit Straight Truck or Cab-Chassis (GVWR unknown)), 66 (Truck-tractor (Cab only or with any number of trailing units; any weight)), 67 (Medium/Heavy Pickup (GVWR greater than 10,000 lbs.)), 71 (Unknown if single-unit or combination unit Medium Truck (GVWR range 10,001 lbs. to 26,000 lbs.)), 72 (Unknown if single-unit or combination unit Heavy Truck (GVWR greater than 26,000 lbs.)), 78 (Unknown medium/heavy truck type), 79 (Unknown truck type (light/medium/heavy)).</i></b>                                                                                                                                                  |
| <b>VP58</b>     | <b><i>If vPIC BODY CLASS equals 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 008 (Crossover Utility Vehicle (CUV), or 119 (Sport Utility Truck (SUT) and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 13-18, then NCSA BODY TYPE must equal 50 (School Bus), 51 (Cross Country/Intercity Bus), 52 (Transit Bus (City Bus)), 55 (Van-Based Bus GVWR greater than 10,000 lbs.), 58 (Other Bus Type), 59 (Unknown Bus Type), 60 (Step Van (GVWR greater than 10,000 lbs.)), 61 (Single-Unit Straight Truck or Cab-chassis (GVWR range 10,001 to 19,500 lbs.)), 62 (Single-Unit Straight Truck or Cab-chassis (GVWR range 19,501 to 26,000 lbs.)), 63 (Single-Unit Straight Truck or Cab-chassis (GVWR greater than 26,000 lbs.)), 64 (Single-Unit Straight Truck or Cab-Chassis (GVWR unknown)), 66 (Truck-tractor (Cab only or with any number of trailing units; any weight)), 67 (Medium/Heavy Pickup (GVWR greater than 10,000 lbs.)), 71 (Unknown if single-unit or combination unit Medium Truck (GVWR range 10,001 lbs. to 26,000 lbs.)), 72 (Unknown if single-unit or combination unit Heavy Truck (GVWR greater than 26,000 lbs.)), 78 (Unknown medium/heavy truck type), 79 (Unknown truck type (light/medium/heavy), or 99 (Unknown Body Type).</i></b> |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <b>VP59</b>     | <i>If vPIC BODY CLASS equals 072 (Incomplete - Commercial Bus Chassis), 075 (Incomplete - Transit Bus Chassis), 076 (Incomplete - Motor Coach Chassis), 077 (Incomplete - Shuttle Bus Chassis), or 107 (Incomplete - Bus Chassis), then FINAL STAGE BODY CLASS must equal 016 (Bus), 073 (Bus-School Bus), 997 (Other (Specify:)), 998 (Not Reported), or 999 (Unknown).</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>VP60</b>     | <i>If vPIC BODY CLASS equals 071 (Incomplete - School Bus Chassis), then FINAL STAGE BODY CLASS must equal 073 (Bus-School Bus), 997 (Other (Specify:)), 998 (Not Reported), or 999 (Unknown).</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>VP61</b>     | <i>If vPIC BODY CLASS equals 078 (Incomplete - Motor Home Chassis), then FINAL STAGE BODY CLASS must equal 108 (Motorhome), 997 (Other (Specify:)), 998 (Not Reported), or 999 (Unknown).</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>VP62</b>     | <i>If FINAL STAGE BODY CLASS equals 011 (Truck), 060 (Pickup), or 066 (Truck-Tractor), then vPIC BODY CLASS must equal 062 (Incomplete - Cutaway), 063 (Incomplete - Chassis Cab (Single Cab)), 064 (Incomplete - Glider), 065 (Incomplete), 067 (Incomplete - Stripped Chassis), 070 (Incomplete - Chassis Cab (Double Cab)), 074 (Incomplete - Chassis Cab (Number of Cab Unknown)), or 112 (Incomplete - Commercial Chassis).</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>VP63</b>     | <i>If FINAL STAGE BODY CLASS equals 004 (Low Speed Vehicle (LSV)), then vPIC BODY CLASS should not equal 063 (Incomplete - Chassis Cab (Single Cab)), 070 (Incomplete - Chassis Cab (Double Cab)), 071 (Incomplete - School Bus Chassis), 074 (Incomplete - Chassis Cab (Number of Cab Unknown)), 076 (Incomplete - Motor Coach Chassis).</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>VP64</b>     | <i>If FINAL STAGE BODY CLASS equals 009 (Van), 015 (Wagon), 007 (Sport Utility Vehicle (SUV)/Multi-Purpose Vehicle (MPV)), 008 (Crossover Utility Vehicle (CUV)), 068 (Streetcar/Trolley), 095 (Cargo Van), 111 (Step Van/Walk-in Van), then vPIC BODY CLASS should not equal 071 (Incomplete - School Bus Chassis), 076 (Incomplete - Motor Coach Chassis), or 078 (Incomplete - Motor Home Chassis).</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>VP65</b>     | <i>If FINAL STAGE BODY CLASS equals 117 (Limousine), then vPIC BODY CLASS should not equal 063 (Incomplete - Chassis Cab (Single Cab)), 070 (Incomplete - Chassis Cab (Double Cab)), 071 (Incomplete - School Bus Chassis), 074 (Incomplete - Chassis Cab (Number of Cab Unknown)), 075 (Incomplete - Transit Bus Chassis), or 077 (Incomplete - Shuttle Bus Chassis).</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>VP66</b>     | <i>If vPIC BODY CLASS equals 006 (Motorcycle - Standard), 012 (Motorcycle - Scooter), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring/Sport Touring), 082 (Motorcycle - Cruiser), 083 (Motorcycle - Trike), 084 (Off-road Vehicle - Dirt Bike/Off-Road), 085 (Motorcycle - Dual Sport/Adventure/Supermoto/On/Off-Road), 086 (Off-road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small/Minibike), 088 (Off-road Vehicle - Go Kart), 090 (Motorcycle - Side Car), 094 (Motorcycle - Custom), 097 (Off-road Vehicle - Snowmobile), 098 (Motorcycle - Street), 100 (Motorcycle - Enclosed Three Wheeled/Enclosed Autocycle), 103 (Motorcycle - Unenclosed Three Wheeled/Open Autocycle), 104 (Motorcycle - Moped), 105 (Off-road Vehicle - Recreational Off-Road Vehicle (ROV)), 109 (Motorcycle - Cross Country), 110 (Motorcycle - Underbone), 113 (Off-road Vehicle - Motocross (Off-road short distance, closed track racing)), 114 (Motorcycle - Competition), 124 (Off-road Vehicle - Golf Cart), or 125 (Motorcycle - Unknown Body Type), then POWER UNIT GVWR_From and POWER UNIT GVWR_To must equal 11 or 99.</i> |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                             |
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| VP67            | <i>If vPIC BODY CLASS equals 001 (Convertible/Cabriolet), 003 (Coupe), 005 (Hatchback/Liftback/Notchback), 010 (Roadster), or 013 (Sedan/Saloon), then POWER UNIT GVWR_From and POWER UNIT GVWR_To must equal 11 or 12.</i>                                      |
| VP68            | <i>If vPIC BODY CLASS equals 002 (Minivan), 008 (Crossover Utility Vehicle (CUV)), or 119 (Sport Utility Truck (SUT)), then POWER UNIT GVWR_From and POWER UNIT GVWR_To must equal 11, 12, 98, or 99.</i>                                                        |
| VP69            | <i>If vPIC BODY CLASS equals 060 (Pickup) or 095 (Cargo Van), then POWER UNIT GVWR_From and POWER UNIT GVWR_To should equal 11, 12, 13, 14, 98, or 99.</i>                                                                                                       |
| VP70            | <i>If TRAILER VEHICLE IDENTIFICATION NUMBER is valid and decodes with error code only in 0, 1, or 400, then TRAILER VEHICLE IDENTIFICATION NUMBER decoded vPIC BODY CLASS must equal 061 (Trailer), 116 (Incomplete - Trailer Chassis), or 065 (Incomplete).</i> |
| VP73            | <i>UNLIKELY: TRAILER GVWR equals 0s for any of the three sets.</i>                                                                                                                                                                                               |
| VP74            | <i>If TRAILER VEHICLE IDENTIFICATION NUMBER equals 7s, then TRAILER GVWR must equal 77.</i>                                                                                                                                                                      |
| VP75            | <i>If TRAILER VEHICLE IDENTIFICATION NUMBER equals 0s, then TRAILER GVWR must equal 00.</i>                                                                                                                                                                      |
| VP76            | <i>If TRAILER VEHICLE IDENTIFICATION NUMBER equals 8s, then TRAILER GVWR should equal 98.</i>                                                                                                                                                                    |
| VP77            | <i>If TRAILER VEHICLE IDENTIFICATION NUMBER equals 9s, then TRAILER GVWR should equal 99.</i>                                                                                                                                                                    |
| VP78            | <i>If TRAILER VEHICLE IDENTIFICATION NUMBER is not equal to 0s, 7s, 8s or 9s, then TRAILER GVWR must equal 11-18 or 98.</i>                                                                                                                                      |
| VP79            | <i>If VEHICLE TRAILING equals 1, then TRAILER VEHICLE IDENTIFICATION NUMBER must equal 7s for only two sets.</i>                                                                                                                                                 |
| VP80            | <i>If VEHICLE TRAILING equals 2, then TRAILER VEHICLE IDENTIFICATION NUMBER must equal 7s for only one set.</i>                                                                                                                                                  |
| VP81            | <i>If VEHICLE TRAILING equals 3, then TRAILER VEHICLE IDENTIFICATION NUMBER must not equal to 7s for any set.</i>                                                                                                                                                |
| VP82            | <i>UNLIKELY: vPIC MODEL equals 99997.</i>                                                                                                                                                                                                                        |
| VP83            | <i>If POWER UNIT GVWR_From and POWER UNIT GVWR_To equal 13-18, then MOTOR CARRIER IDENTIFICATION NUMBER, VEHICLE CONFIGURATION, and CARGO BODY TYPE must not equal 00.</i>                                                                                       |
| VP84            | <i>If vPIC BODY CLASS equals 073, 066, or 068, then MOTOR CARRIER IDENTIFICATION NUMBER, VEHICLE CONFIGURATION, and CARGO BODY TYPE must not equal 00.</i>                                                                                                       |
| VP85            | <i>If VEHICLE TRAILING equals 0 and POWER UNIT GVWR_From and POWER UNIT GVWR_To are either 11 or 12 and HM2 does not equal 2, then VEHICLE CONFIGURATION must equal 00, 20, or 99, and CARGO BODY TYPE must equal 00 or 22.</i>                                  |
| VP86            | <i>POWER UNIT GVWR_FROM must be equal to or less than POWER UNIT VGWR_TO.</i>                                                                                                                                                                                    |

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| <b>VP87</b>     | <i>If vPIC BODY CLASS equals 006 (Motorcycle – Standard), 012 (Motorcycle – Scooter), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring / Sport Touring ), 082 (Motorcycle - Cruiser ), 083 (Motorcycle – Trike), 084 (Off-road Vehicle - Dirt Bike / Off-Road), 085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road), 086 (Off-road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small / Minibike), 088 (Off-road Vehicle - Go Kart), 090 (Motorcycle - Side Car), 094 (Motorcycle – Custom), 097 (Off-road Vehicle – Snowmobile), 098 (Motorcycle – Street), 104 (Motorcycle – Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle – Underbone), 113 (Off-road Vehicle - Motocross (Off-road short distance, closed track racing)), 114 (Motorcycle – Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle), then VEHICLE UNDERRIDE/OVERRIDE must equal 7.</i>          |
| <b>VP88</b>     | <i>If VEHICLE UNDERRIDE/OVERRIDE equals 1 or 2, then vPIC BODY CLASS must not equal 006 (Motorcycle – Standard), 012 (Motorcycle – Scooter), 069 (Off-road Vehicle - All Terrain Vehicle (ATV) (Motorcycle-style)), 080 (Motorcycle - Sport), 081 (Motorcycle - Touring / Sport Touring ), 082 (Motorcycle - Cruiser ), 083 (Motorcycle – Trike), 084 (Off-road Vehicle - Dirt Bike / Off-Road), 085 (Motorcycle - Dual Sport / Adventure / Supermoto / On/Off-Road), 086 (Off-road Vehicle - Enduro (Off-road long-distance racing)), 087 (Motorcycle - Small / Minibike), 088 (Off-road Vehicle - Go Kart), 090 (Motorcycle - Side Car), 094 (Motorcycle – Custom), 097 (Off-road Vehicle – Snowmobile), 098 (Motorcycle – Street), 104 (Motorcycle – Moped), 109 (Motorcycle - Cross Country), 110 (Motorcycle – Underbone), 113 (Off-road Vehicle - Motocross (Off-road short distance, closed track racing)), 114 (Motorcycle – Competition), 125 (Motorcycle - Unknown Body Type), or 996 (Motorized Bicycle).</i> |
| <b>VP89</b>     | <i>If VPIC BODY CLASS equals 997, then NCSA BODY TYPE should be 09 or 97.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>VP90</b>     | <i>If vPIC BODY CLASS equals 015 (Wagon), and POWER UNIT GVWR_From and POWER UNIT GVWR_To in 11 or 12, then NCSA BODY TYPE must equal code 03 (3-Door/2-Door Hatchback), 05 (5-Door/4-Door Hatchback), 06 (Station Wagon (excluding van and truck based)), 09 (Other or Unknown Automobile Type), 14 (Compact Utility), 15 (Large Utility), 16 (Utility Station Wagon), 20 (Minivan), 19 (Utility Vehicle, Unknown Body Type), 21 (Large Van), 28 (Other van type), 29 (Unknown van type), 48 (Unknown light truck type), or 49 (Unknown light vehicle type).</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

## **Appendix C: VIN Decode Errors**

| <b>Error ID</b> | <b>Error Message</b>                                                                                                                                                         |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>0</b>        | <b><i>VIN decoded clean. Check Digit (9th position) is correct</i></b>                                                                                                       |
| <b>1</b>        | <b><i>Check Digit (9th position) does not calculate properly</i></b>                                                                                                         |
| <b>2</b>        | <b><i>VIN corrected, error in one position</i></b>                                                                                                                           |
| <b>3</b>        | <b><i>VIN corrected, error in one position (assuming Check Digit is correct)</i></b>                                                                                         |
| <b>4</b>        | <b><i>VIN corrected, error in one position only (indicated by ! in Suggested VIN), multiple matches found</i></b>                                                            |
| <b>5</b>        | <b><i>VIN has errors in few positions</i></b>                                                                                                                                |
| <b>6</b>        | <b><i>Incomplete VIN</i></b>                                                                                                                                                 |
| <b>7</b>        | <b><i>Manufacturer is not registered with NHTSA for sale or importation in the US for use on US roads; Please contact the manufacturer directly for more information</i></b> |
| <b>8</b>        | <b><i>No detailed data available currently</i></b>                                                                                                                           |
| <b>9</b>        | <b><i>Glider Error</i></b>                                                                                                                                                   |
| <b>10</b>       | <b><i>Off</i></b>                                                                                                                                                            |
| <b>11</b>       | <b><i>Incorrect Model Year, decoded data may not be accurate</i></b>                                                                                                         |
| <b>12</b>       | <b><i>Model year entered does not match the model year based on the 10th character in VIN</i></b>                                                                            |
| <b>14</b>       | <b><i>Unable to provide information for all the characters in the VIN.</i></b>                                                                                               |
| <b>400</b>      | <b><i>Invalid Characters Present (I, O, Q)</i></b>                                                                                                                           |

## **Appendix D:     Alphabetical Listing of *NCSA* Makes**

| FARS Make Code | Make                                 | NCIC Code* |
|----------------|--------------------------------------|------------|
| 54             | <a href="#">Acura</a>                | (ACUR)     |
| 31             | <a href="#">Alfa Romeo</a>           | (ALFA)     |
| 03             | <a href="#">AM General</a>           | (AMGN)     |
| 01             | <a href="#">American Motors</a>      | (AMER)     |
| 69-031         | <a href="#">Aston Martin</a>         | (ASTO)     |
| 32             | <a href="#">Audi</a>                 | (AUDI)     |
| 33             | <a href="#">Austin/Austin Healey</a> | (AUST)     |
| 29-001         | <a href="#">Avanti</a>               | (AVTI)     |
| 98-802         | <a href="#">Auto-Union-DKW</a>       | (AUTU)     |
| 69-042         | <a href="#">Bentley</a>              | (BENT)     |
| 69-052         | <a href="#">Bertone</a>              | (BERO)     |
| 90             | <a href="#">Bluebird</a>             | (BLUI)     |
| 34             | <a href="#">BMW</a>                  | (BMW)      |
| 69-032         | <a href="#">Bricklin</a>             | (BRIC)     |
| 80             | <a href="#">Brockway</a>             | (BROC)     |
| 70             | <a href="#">BSA</a>                  | (BSA)      |
| 69-064         | <a href="#">Bugatti</a>              | --         |
| 18             | <a href="#">Buick</a>                | (BUIC)     |
| 19             | <a href="#">Cadillac</a>             | (CADI)     |
| 98-903         | <a href="#">Carpenter</a>            | --         |
| 69-062         | <a href="#">Caterham</a>             | --         |
| 29-002         | <a href="#">Checker</a>              | (CHEC)     |
| 20             | <a href="#">Chevrolet</a>            | (CHEV)     |
| 06             | <a href="#">Chrysler</a>             | (CHRY)     |
| 69-033         | <a href="#">Citroen</a>              | (CITR)     |
| 26             | <a href="#">Coda</a>                 | --         |
| 98-904         | <a href="#">Collins Bus</a>          | --         |
| 64             | <a href="#">Daewoo</a>               | (DAEW)     |
| 60             | <a href="#">Daihatsu</a>             | (DAIH)     |
| 35             | <a href="#">Datsun</a>               | (DATS)     |

| FARS Make Code | Make                               | NCIC Code* |
|----------------|------------------------------------|------------|
| 69-034         | <a href="#">DeLorean</a>           | (DELO)     |
| 29-398         | <a href="#">Desoto</a>             | (DESO)     |
| 69-048         | <a href="#">Desta</a>              | --         |
| 81             | <a href="#">Diamond Reo or Reo</a> | (DIAR)     |
| 98-905         | <a href="#">DINA</a>               | (DINA)     |
| 98-803         | <a href="#">Divco</a>              | (DIVC)     |
| 07             | <a href="#">Dodge</a>              | (DODG)     |
| 71             | <a href="#">Ducati</a>             | (DUCA)     |
| 10             | <a href="#">Eagle</a>              | (EGIL)     |
| 91             | <a href="#">Eagle Coach</a>        | --         |
| 29-398         | <a href="#">Excalibur</a>          | (EXCL)     |
| 69-035         | <a href="#">Ferrari</a>            | (FERR)     |
| 36             | <a href="#">Fiat</a>               | (FIAT)     |
| 69-398         | <a href="#">Fisker</a>             | --         |
| 12             | <a href="#">Ford</a>               | (FORD)     |
| 82             | <a href="#">Freightliner</a>       | (FRHT)     |
| 83             | <a href="#">FWD</a>                | (FWD)      |
| 69-398         | <a href="#">Gazelle</a>            | (GZL)      |
| 92             | <a href="#">Gillig</a>             | --         |
| 23             | <a href="#">GMC</a>                | (GMC)      |
| 25             | <a href="#">Grumman</a>            | (GRUM)     |
| 72             | <a href="#">Harley-Davidson</a>    | (HD)       |
| 69-036         | <a href="#">Hillman</a>            | (HILL)     |
| 98-806         | <a href="#">Hino</a>               | (HINO)     |
| 37             | <a href="#">Honda</a>              | (HOND)     |
| 29-398         | <a href="#">Hudson</a>             | (HUDS)     |
| 55             | <a href="#">Hyundai</a>            | (HYUN)     |
| 08             | <a href="#">Imperial</a>           | (CHRY)     |
| 58             | <a href="#">Infiniti</a>           | (INFI)     |



| FARS Make Code | Make                                    | NCIC Code* |
|----------------|-----------------------------------------|------------|
| 84             | <a href="#">International Harvester</a> | (INTL)     |
| 38             | <a href="#">Isuzu</a>                   | (ISU)      |
| 88             | <a href="#">Iveco/Magirus</a>           | (IVEC)     |
| 39             | <a href="#">Jaguar</a>                  | (JAGU)     |
| 69-037         | <a href="#">Jensen</a>                  | (JENS)     |
| 02             | <a href="#">Jeep</a>                    | (AMER)     |
| 02             | <a href="#">Kaiser-Jeep</a>             | (AMER)     |
| 73             | <a href="#">Kawasaki</a>                | (KAWK)     |
| 85             | <a href="#">Kenworth</a>                | (KW)       |
| 63             | <a href="#">Kia</a>                     | (KIA)      |
| 69-058         | <a href="#">Koenigsegg</a>              | --         |
| 69-053         | <a href="#">Lada</a>                    | (LADA)     |
| 69-038         | <a href="#">Lamborghini</a>             | (LAMO)     |
| 40             | <a href="#">Lancia</a>                  | (LNCI)     |
| 62             | <a href="#">Land Rover</a>              | (LNDR)     |
| 59             | <a href="#">Lexus</a>                   | (LEXS)     |
| 13             | <a href="#">Lincoln</a>                 | (LINC)     |
| 69-039         | <a href="#">Lotus</a>                   | (LOTU)     |
| 86             | <a href="#">Mack</a>                    | (MACK)     |
| 69-061         | <a href="#">Mahindra</a>                | --         |
| 69-040         | <a href="#">Maserati</a>                | (MASE)     |
| 69-056         | <a href="#">Maybach</a>                 | (MAYB)     |
| 41             | <a href="#">Mazda</a>                   | (MAZD)     |
| 69-063         | <a href="#">McLaren</a>                 | --         |
| 93             | <a href="#">MCI</a>                     | (MCIN)     |
| 42             | <a href="#">Mercedes-Benz</a>           | (MERZ)     |
| 14             | <a href="#">Mercury</a>                 | (MERC)     |
| 56             | <a href="#">Merkur</a>                  | (MERK)     |
| 98-302         | <a href="#">Meyers Motors</a>           | --         |
| 98-906         | <a href="#">Mid Bus</a>                 | --         |
| 69-054         | <a href="#">Mini-Cooper</a>             | (MNNI)     |

| FARS Make Code | Make                              | NCIC Code* |
|----------------|-----------------------------------|------------|
| 43             | <a href="#">MG</a>                | (MG)       |
| 52             | <a href="#">Mitsubishi</a>        | (MITS)     |
| 69-055         | <a href="#">Morgan</a>            | (MORG)     |
| 69-041         | <a href="#">Morris</a>            | (MORR)     |
| 74             | <a href="#">Moto-Guzzi</a>        | (MOGU)     |
| 84             | <a href="#">Navistar</a>          | (NAVI)     |
| 98-902         | <a href="#">Neoplan</a>           | (NEOP)     |
| 35             | <a href="#">Nissan</a>            | (NISS)     |
| 75             | <a href="#">Norton</a>            | (NORT)     |
| 21             | <a href="#">Oldsmobile</a>        | (OLDS)     |
| 18             | <a href="#">Opel</a>              | (OPEL)     |
| 98-907         | <a href="#">Orion</a>             | (ONTR)     |
| 98-805         | <a href="#">Oshkosh</a>           | (OSHK)     |
| 29-398         | <a href="#">Packard</a>           | (PACK)     |
| 29-003         | <a href="#">Panoz</a>             | (PANZ)     |
| 87             | <a href="#">Peterbilt</a>         | (PTRB)     |
| 44             | <a href="#">Peugeot</a>           | (PEUG)     |
| 09             | <a href="#">Plymouth</a>          | (PLYM)     |
| 22             | <a href="#">Pontiac</a>           | (PONT)     |
| 45             | <a href="#">Porsche</a>           | (PORS)     |
| 69-049         | <a href="#">Reliant (British)</a> | (RELA)     |
| 46             | <a href="#">Renault</a>           | (RENA)     |
| 69-042         | <a href="#">Rolls Royce</a>       | (ROL)      |
| 47             | <a href="#">Saab</a>              | (SAA)      |
| 29-004         | <a href="#">Saleen</a>            | --         |
| 24             | <a href="#">Saturn</a>            | (STRN)     |
| 98-807         | <a href="#">Scania</a>            | (SCAN)     |
| 67             | <a href="#">Scion</a>             | (SCIO)     |
| 69-044         | <a href="#">Simca</a>             | (SIM)      |
| 69-398         | <a href="#">Singer</a>            | (SIN)      |
| 65             | <a href="#">Smart</a>             | (SMRT)     |

| <b>FARS<br/>Make<br/>Code</b> | <b>Make</b>                  | <b>NCIC<br/>Code*</b> |
|-------------------------------|------------------------------|-----------------------|
| 69-057                        | <a href="#">Spyker</a>       | --                    |
| 61                            | <a href="#">Sterling</a>     | (STLG)                |
| 98-809                        | <a href="#">Sterling</a>     | (STLG)                |
| 29-001                        | <a href="#">Studebaker</a>   | (STU)                 |
| 29-398                        | <a href="#">Stutz</a>        | (STUZ)                |
| 48                            | <a href="#">Subaru</a>       | (SUBA)                |
| 69-045                        | <a href="#">Sunbeam</a>      | (SUNB)                |
| 53                            | <a href="#">Suzuki</a>       | (SUZI)                |
| 29-005                        | <a href="#">Tesla</a>        | --                    |
| 98-301                        | <a href="#">Think</a>        | --                    |
| 94                            | <a href="#">Thomas Built</a> | (THMS)                |
| 49                            | <a href="#">Toyota</a>       | (TOYT)                |
| 50                            | <a href="#">Triumph</a>      | (TRIU)                |

| <b>FARS<br/>Make<br/>Code</b> | <b>Make</b>                   | <b>NCIC<br/>Code*</b> |
|-------------------------------|-------------------------------|-----------------------|
| 69-046                        | <a href="#">TVR</a>           | (TVR)                 |
| 98-808                        | <a href="#">UD</a>            | (UD)                  |
| 98-908                        | <a href="#">Van Hool</a>      | --                    |
| 77                            | <a href="#">Victory</a>       | (VCTY)                |
| 30                            | <a href="#">Volkswagen</a>    | (VOLK)                |
| 51                            | <a href="#">Volvo</a>         | (VOLV)                |
| 98-804                        | <a href="#">Western Star</a>  | (WSTR)                |
| 89                            | <a href="#">White/Autocar</a> | (WHIT)                |
| 89                            | <a href="#">White/GMC</a>     | (WHGM)                |
| 02                            | <a href="#">Willys-Jeep</a>   | (AMER)                |
| 76                            | <a href="#">Yamaha</a>        | (YAMA)                |
| 57                            | <a href="#">Yugo</a>          | (YUGO)                |

## **Appendix E: Numerical Listing of *NCSA* Makes**

| FARS Make Code | Make                                 | NCIC Code* |
|----------------|--------------------------------------|------------|
| 01             | <a href="#">American Motors</a>      | (AMER)     |
| 02             | <a href="#">Jeep</a>                 | (AMER)     |
| 02             | <a href="#">Kaiser-Jeep</a>          | (AMER)     |
| 02             | <a href="#">Willys-Jeep</a>          | (AMER)     |
| 03             | <a href="#">AM General</a>           | (AMGN)     |
| 06             | <a href="#">Chrysler</a>             | (CHRY)     |
| 07             | <a href="#">Dodge</a>                | (DODG)     |
| 08             | <a href="#">Imperial</a>             | (CHRY)     |
| 09             | <a href="#">Plymouth</a>             | (PLYM)     |
| 10             | <a href="#">Eagle</a>                | (EGIL)     |
| 12             | <a href="#">Ford</a>                 | (FORD)     |
| 13             | <a href="#">Lincoln</a>              | (LINC)     |
| 14             | <a href="#">Mercury</a>              | (MERC)     |
| 18             | <a href="#">Buick</a>                | (BUIC)     |
| 18             | <a href="#">Opel</a>                 | (OPEL)     |
| 19             | <a href="#">Cadillac</a>             | (CADI)     |
| 20             | <a href="#">Chevrolet</a>            | (CHEV)     |
| 21             | <a href="#">Oldsmobile</a>           | (OLDS)     |
| 22             | <a href="#">Pontiac</a>              | (PONT)     |
| 23             | <a href="#">GMC</a>                  | (GMC)      |
| 24             | <a href="#">Saturn</a>               | (STRN)     |
| 25             | <a href="#">Grumman</a>              | (GRUM)     |
| 26             | <a href="#">Coda</a>                 | --         |
| 30             | <a href="#">Volkswagen</a>           | (VOLK)     |
| 31             | <a href="#">Alfa Romeo</a>           | (ALFA)     |
| 32             | <a href="#">Audi</a>                 | (AUDI)     |
| 33             | <a href="#">Austin/Austin Healey</a> | (AUST)     |
| 34             | <a href="#">BMW</a>                  | (BMW)      |
| 35             | <a href="#">Datsun</a>               | (DATS)     |
| 35             | <a href="#">Nissan</a>               | (NISS)     |

| FARS Make Code | Make                          | NCIC Code* |
|----------------|-------------------------------|------------|
| 36             | <a href="#">Fiat</a>          | (FIAT)     |
| 37             | <a href="#">Honda</a>         | (HOND)     |
| 38             | <a href="#">Isuzu</a>         | (ISU)      |
| 39             | <a href="#">Jaguar</a>        | (JAGU)     |
| 40             | <a href="#">Lancia</a>        | (LNCI)     |
| 41             | <a href="#">Mazda</a>         | (MAZD)     |
| 42             | <a href="#">Mercedes-Benz</a> | (MERZ)     |
| 43             | <a href="#">MG</a>            | (MG)       |
| 44             | <a href="#">Peugeot</a>       | (PEUG)     |
| 45             | <a href="#">Porsche</a>       | (PORS)     |
| 46             | <a href="#">Renault</a>       | (RENA)     |
| 47             | <a href="#">Saab</a>          | (SAA)      |
| 48             | <a href="#">Subaru</a>        | (SUBA)     |
| 49             | <a href="#">Toyota</a>        | (TOYT)     |
| 50             | <a href="#">Triumph</a>       | (TRIU)     |
| 51             | <a href="#">Volvo</a>         | (VOLV)     |
| 52             | <a href="#">Mitsubishi</a>    | (MITS)     |
| 53             | <a href="#">Suzuki</a>        | (SUZI)     |
| 54             | <a href="#">Acura</a>         | (ACUR)     |
| 55             | <a href="#">Hyundai</a>       | (HYUN)     |
| 56             | <a href="#">Merkur</a>        | (MERK)     |
| 57             | <a href="#">Yugo</a>          | (YUGO)     |
| 58             | <a href="#">Infiniti</a>      | (INFI)     |
| 59             | <a href="#">Lexus</a>         | (LEXS)     |
| 60             | <a href="#">Daihatsu</a>      | (DAIH)     |
| 61             | <a href="#">Sterling</a>      | (STLG)     |
| 62             | <a href="#">Land Rover</a>    | (LNDR)     |
| 63             | <a href="#">Kia</a>           | (KIA)      |
| 64             | <a href="#">Daewoo</a>        | (DAEW)     |
| 65             | <a href="#">Smart</a>         | (SMRT)     |

| FARS Make Code | Make                                    | NCIC Code* |
|----------------|-----------------------------------------|------------|
| 67             | <a href="#">Scion</a>                   | (SCIO)     |
| 70             | <a href="#">BSA</a>                     | (BSA)      |
| 71             | <a href="#">Ducati</a>                  | (DUCA)     |
| 72             | <a href="#">Harley-Davidson</a>         | (HD)       |
| 73             | <a href="#">Kawasaki</a>                | (KAWK)     |
| 74             | <a href="#">Moto-Guzzi</a>              | (MOGU)     |
| 75             | <a href="#">Norton</a>                  | (NORT)     |
| 76             | <a href="#">Yamaha</a>                  | (YAMA)     |
| 77             | <a href="#">Victory</a>                 | (VCTY)     |
| 80             | <a href="#">Brockway</a>                | (BROC)     |
| 81             | <a href="#">Diamond Reo or Reo</a>      | (DIAR)     |
| 82             | <a href="#">Freightliner</a>            | (FRHT)     |
| 83             | <a href="#">FWD</a>                     | (FWD)      |
| 84             | <a href="#">International Harvester</a> | (INTL)     |
| 84             | <a href="#">Navistar</a>                | (NAVI)     |
| 85             | <a href="#">Kenworth</a>                | (KW)       |
| 86             | <a href="#">Mack</a>                    | (MACK)     |
| 87             | <a href="#">Peterbilt</a>               | (PTRB)     |
| 88             | <a href="#">Iveco/Magirus</a>           | (IVEC)     |
| 89             | <a href="#">White/Autocar</a>           | (WHIT)     |
| 89             | <a href="#">White/GMC</a>               | (WHGM)     |
| 90             | <a href="#">Bluebird</a>                | (BLUI)     |
| 91             | <a href="#">Eagle Coach</a>             | --         |
| 92             | <a href="#">Gillig</a>                  | --         |
| 93             | <a href="#">MCI</a>                     | (MCIN)     |
| 94             | <a href="#">Thomas Built</a>            | (THMS)     |
| 29-001         | <a href="#">Avanti</a>                  | (AVTI)     |
| 29-001         | <a href="#">Studebaker</a>              | (STU)      |
| 29-002         | <a href="#">Checker</a>                 | (CHEC)     |
| 29-003         | <a href="#">Panoz</a>                   | (PANZ)     |
| 29-004         | <a href="#">Saleen</a>                  | --         |

| FARS Make Code | Make                              | NCIC Code* |
|----------------|-----------------------------------|------------|
| 29-005         | <a href="#">Tesla</a>             | --         |
| 29-398         | <a href="#">Desoto</a>            | (DESO)     |
| 29-398         | <a href="#">Excalibur</a>         | (EXCL)     |
| 29-398         | <a href="#">Hudson</a>            | (HUDS)     |
| 29-398         | <a href="#">Packard</a>           | (PACK)     |
| 29-398         | <a href="#">Stutz</a>             | (STUZ)     |
| 69-031         | <a href="#">Aston Martin</a>      | (ASTO)     |
| 69-032         | <a href="#">Bricklin</a>          | (BRIC)     |
| 69-033         | <a href="#">Citroen</a>           | (CITR)     |
| 69-034         | <a href="#">DeLorean</a>          | (DELO)     |
| 69-035         | <a href="#">Ferrari</a>           | (FERR)     |
| 69-036         | <a href="#">Hillman</a>           | (HILL)     |
| 69-037         | <a href="#">Jensen</a>            | (JENS)     |
| 69-038         | <a href="#">Lamborghini</a>       | (LAMO)     |
| 69-039         | <a href="#">Lotus</a>             | (LOTU)     |
| 69-040         | <a href="#">Maserati</a>          | (MASE)     |
| 69-041         | <a href="#">Morris</a>            | (MORR)     |
| 69-042         | <a href="#">Bentley</a>           | (BENT)     |
| 69-042         | <a href="#">Rolls Royce</a>       | (ROL)      |
| 69-044         | <a href="#">Simca</a>             | (SIM)      |
| 69-045         | <a href="#">Sunbeam</a>           | (SUNB)     |
| 69-046         | <a href="#">TVR</a>               | (TVR)      |
| 69-048         | <a href="#">Desta</a>             | --         |
| 69-049         | <a href="#">Reliant (British)</a> | (RELA)     |
| 69-052         | <a href="#">Bertone</a>           | (BERO)     |
| 69-053         | <a href="#">Lada</a>              | (LADA)     |
| 69-054         | <a href="#">Mini-Cooper</a>       | (MNNI)     |
| 69-055         | <a href="#">Morgan</a>            | (MORG)     |
| 69-056         | <a href="#">Maybach</a>           | (MAYB)     |
| 69-057         | <a href="#">Spyker</a>            | --         |
| 69-058         | <a href="#">Koenigsegg</a>        | --         |

| FARS Make Code | Make                           | NCIC Code* |
|----------------|--------------------------------|------------|
| 69-061         | <a href="#">Mahindra</a>       | --         |
| 69-062         | <a href="#">Caterham</a>       | --         |
| 69-063         | <a href="#">McLaren</a>        | --         |
| 69-064         | <a href="#">Bugatti</a>        | --         |
| 69-398         | <a href="#">Fisker</a>         | --         |
| 69-398         | <a href="#">Gazelle</a>        | (GZL)      |
| 69-398         | <a href="#">Singer</a>         | (SIN)      |
| 98-301         | <a href="#">Think</a>          | --         |
| 98-302         | <a href="#">Meyers Motors</a>  | --         |
| 98-802         | <a href="#">Auto-Union-DKW</a> | (AUTU)     |
| 98-803         | <a href="#">Divco</a>          | (DIVC)     |
| 98-804         | <a href="#">Western Star</a>   | (WSTR)     |
| 98-805         | <a href="#">Oshkosh</a>        | (OSHK)     |

| FARS Make Code | Make                        | NCIC Code* |
|----------------|-----------------------------|------------|
| 98-806         | <a href="#">Hino</a>        | (HINO)     |
| 98-807         | <a href="#">Scania</a>      | (SCAN)     |
| 98-808         | <a href="#">UD</a>          | (UD)       |
| 98-809         | <a href="#">Sterling</a>    | (STLG)     |
| 98-902         | <a href="#">Neoplan</a>     | (NEOP)     |
| 98-903         | <a href="#">Carpenter</a>   | --         |
| 98-904         | <a href="#">Collins Bus</a> | --         |
| 98-905         | <a href="#">DINA</a>        | (DINA)     |
| 98-906         | <a href="#">Mid Bus</a>     | --         |
| 98-907         | <a href="#">Orion</a>       | (ONTR)     |
| 98-908         | <a href="#">Van Hool</a>    | --         |

## **Appendix F: NCSA Make / Model / Body Type Tables**

[Passenger Vehicles](#)

[Motored Cycles](#)

[Trucks](#)

[Buses](#)

[Other Make](#)

[Unknown Make](#)

## Passenger Vehicles

### NCSA MAKE: Acura (54) (ACUR)

#### AUTOMOBILES

| Codes | NCSA Models                                          | Includes                                                                                       | Model Years     | NCSA Body Types             |
|-------|------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------|-----------------------------|
| 031   | Integra                                              | GS, LS, RS, GS-R, Type R                                                                       | 1986-2001, 9999 | <a href="#">03-05,07,09</a> |
| 032   | Legend                                               | L, LS, GS, Special Edition, GS-R                                                               | 1986-95,9999    | <a href="#">02,04,08,09</a> |
| 033   | NSX (For 1991-2005 only. For 2016 on see model 043.) | NSX-T                                                                                          | 1991-2005, 9999 | <a href="#">02</a>          |
| 034   | Vigor                                                | --                                                                                             | 1992-94,9999    | <a href="#">04</a>          |
| 035   | TL                                                   | 3.2, 3.5, 3.7, SH-AWD (AT/MT)                                                                  | 1996-2014, 9999 | <a href="#">04</a>          |
| 036   | RL/RLX                                               | 3.5, 3.7, Hybrid, Sport Hybrid, Technology Package, Advance Package                            | 1996-2020, 9999 | <a href="#">04</a>          |
| 037   | CL                                                   | 2.2, 2.3, 3.0, 3.2, Type S                                                                     | 1997-2003, 9999 | <a href="#">02</a>          |
| 038   | RSX                                                  | 2.0, Type S                                                                                    | 2002-06,9999    | <a href="#">03</a>          |
| 039   | TSX                                                  | 2.4, 3.5, Hybrid, Special Edition, V6                                                          | 2004-14,9999    | <a href="#">04, 06, 09</a>  |
| 040   | ZDX                                                  | 3.7, SH-AWD                                                                                    | 2010-13,9999    | <a href="#">05</a>          |
| 041   | ILX                                                  | 2.0, 2.4, Hybrid, Premium, A-Spec, Special Edition, AcuraWatch Plus, Technology Plus, Standard | 2013-20,9999    | <a href="#">04</a>          |
| 043   | NSX (2016 on. For 1991-2005 see model 033.)          | Sport, GT3, Sport Hybrid                                                                       | 2016-20,9999    | <a href="#">02</a>          |
| 044   | TLX                                                  | 2.4, 3.6 V-6, Standard, GT Package, A-Spec, Advance Package, Technology Package                | 2015-20,9999    | <a href="#">04</a>          |
| 398   | Other (automobile)                                   | --                                                                                             | 1986-2020, 9999 | <a href="#">02-09</a>       |
| 399   | Unknown (automobile)                                 | --                                                                                             | 1986-2020, 9999 | <a href="#">02-09</a>       |



**LIGHT TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b>    | <b>Includes</b>                                                    | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|-----------------------|--------------------------------------------------------------------|--------------------|------------------------|
| 401          | SLX                   | --                                                                 | 1996-2000, 9999    | <a href="#">14</a>     |
| 402          | RDX                   | 2.3, SH-AWD, Standard, Advance, AcuraWatch Plus, Technology        | 2007-20,9999       | <a href="#">14</a>     |
| 421          | MDX                   | Standard, Sport Hybrid, Technology/ Advance/ Entertainment Package | 2001-19,9999       | <a href="#">15</a>     |
| 499          | Unknown (light truck) | --                                                                 | 1996-2020, 9999    | <a href="#">19</a>     |

**UNKNOWN**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|--------------------|-----------------|--------------------|------------------------|
| 999          | Unknown (ACURA)    | --              | 1986-2020, 9999    | <a href="#">49</a>     |

**NCSA MAKE: Alfa Romeo (31) (ALFA)****AUTOMOBILES**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b>                                                                                                                   | <b>Model Years</b> | <b>NCSA Body Types</b>   |
|--------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------|
| 031          | Spider (Spyder)    | Roadsters, Veloce, Quadrifoglio, Duetto, Graduate, 1600/1750/1900/ 2000 roadsters, Giulia, Giulietta, Giulietta Veloce, Tipo      | 1933-94,9999       | <a href="#">01,02,09</a> |
| 032          | Sports Sedan       | 4-door sedans (except 164); Milano, Giulietta, Super, Berlina, Alfetta, Giulia 1750/1900/2000/2600 sedans, Alpha 90               | 1933-89,9999       | <a href="#">04</a>       |
| 033          | Sprint/Special     | 2-door coupes; Alfetta GT, Monteval, 1750/1900/2000/ 2600 GTV, Sprint GT, GT Veloce, Giulia, Giulietta, Super, GTA, GTV, GTZ, TZ2 | 1933-80,9999       | <a href="#">02</a>       |
| 034          | GTV-6              | --                                                                                                                                | 1981-86,9999       | <a href="#">02</a>       |

| <b>Codes</b> | <b>NCSA Models</b>   | <b>Includes</b>        | <b>Model Years</b>       | <b>NCSA Body Types</b>      |
|--------------|----------------------|------------------------|--------------------------|-----------------------------|
| 035          | 164 (Alpha 164)      | LS, Q, Quadrifoglio    | 1990-95,9999             | <a href="#">04</a>          |
| 036          | 4c                   | Launch Edition, Base   | 2014-19,9999             | <a href="#">01,02,09</a>    |
| 037          | Giulia               | Base, Ti, Quadrifoglio | 2016-19,9999             | <a href="#">02,04,09</a>    |
| 398          | Other (automobile)   | Alfa, Montreal         | 1933-95,<br>2014-19,9999 | <a href="#">01-04,08,09</a> |
| 399          | Unknown (automobile) | --                     | 1933-95,<br>2014-19,9999 | <a href="#">01-04,08,09</a> |

### **LIGHT TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b>                                            | <b>Includes</b>        | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|---------------------------------------------------------------|------------------------|--------------------|------------------------|
| 401          | Stelvio (For 2018 only. For model years 2019 on, see 31-422.) | Base, Ti, Quadrifoglio | 2018               | <a href="#">14</a>     |
| 422          | Stelvio (For 2019 on. For model year 2018, see 31-401.)       | Base, Ti, Quadrifoglio | 2019               | <a href="#">15</a>     |

### **UNKNOWN**

| <b>Codes</b> | <b>NCSA Models</b>   | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|----------------------|-----------------|--------------------|------------------------|
| 999          | Unknown (ALFA ROMEO) | --              | 2018-19, 9999      | <a href="#">49</a>     |

## **NCSA MAKE: AM General (03) (AMGN)**

### **LIGHT TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b>                                                           | <b>Includes</b>                                                       | <b>Model Years</b>      | <b>NCSA Body Types</b>                                               |
|--------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------|-------------------------|----------------------------------------------------------------------|
| 401          | Dispatcher                                                                   | Post Office (Jeep)                                                    | 1965-94,9999            | <a href="#">14</a>                                                   |
| 402          | Hummer                                                                       | H3 (Base, Luxury, Adventure, Limited Edition), x, Alpha               | 2006-11,9999            | <a href="#">14</a>                                                   |
| 421          | Hummer (SUV from 1993-2003; see 431 for 2004 on) (for Pickup, see model 481) | Slantback-HMSB, H1, H2                                                | 1992-2003, 9999         | <a href="#">15</a>                                                   |
| 431          | Hummer (2004 on; see model 421 for 1993-2003)                                | H1 (Base, Luxury, Adventure), H2 (Base, Luxury, Adventure), Limousine | 2004-11,9999            | <a href="#">16</a>                                                   |
| 441          | MV-1                                                                         | SE, DX, LX, Taxi                                                      | 2013-15,9999            | <a href="#">20</a>                                                   |
| 466          | Dispatcher                                                                   | DJ-Series-Post Office Van                                             | 1965-91,9999            | <a href="#">22</a>                                                   |
| 481          | Hummer (Pickup) (for SUV see model 421 for 1993-2003; see 431 for 2004 on)   | H1, H2 (Base, Luxury, Adventure, Limited Edition), Alpha              | 1992-2011, 9999         | <a href="#">34</a>                                                   |
| 482          | Hummer                                                                       | H3T (Adventure, Luxury, Alpha)                                        | 2009-11,9999            | <a href="#">34</a>                                                   |
| 498          | Other (light truck)                                                          | --                                                                    | 1940-2011, 2013-15,9999 | <a href="#">14-16,19,20, 22, 33, 34, 39, 40, 41, 42, 45, 48</a>      |
| 499          | Unknown (light truck)                                                        | --                                                                    | 1940-2011, 2013-15,9999 | <a href="#">14-16,19, 20, 22, 33, 34, 39, 40, 41, 42, 45, 48, 49</a> |

### **MEDIUM/HEAVY TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b>         | <b>Includes</b>   | <b>Model Years</b> | <b>NCSA Body Types</b>         |
|--------------|----------------------------|-------------------|--------------------|--------------------------------|
| 884          | Medium/Heavy Truck         | Military off-road | 1965-2011, 9999    | <a href="#">60-64,71,72,78</a> |
| 898          | Other (medium/heavy truck) | --                | 1965-94,9999       | <a href="#">60-64,71,72,78</a> |

## BUSES

| Codes | NCSA Models                  | Includes | Model Years  | NCSA Body Types             |
|-------|------------------------------|----------|--------------|-----------------------------|
| 983   | Bus: Rear engine, Flat front | Transit  | 1965-94,9999 | <a href="#">52</a>          |
| 988   | Other (bus)                  | --       | 1965-94,9999 | <a href="#">50-52,58,59</a> |
| 989   | Unknown Bus Type             | --       | 1965-94,9999 | <a href="#">50-52,58,59</a> |

## OTHER AND UNKNOWN VEHICLE

| Codes | NCSA Models          | Includes | Model Years                 | NCSA Body Types                                              |
|-------|----------------------|----------|-----------------------------|--------------------------------------------------------------|
| 998   | Other (vehicle)      | --       | 1965-94,9999                | <a href="#">92,93,97</a>                                     |
| 999   | Unknown (AM GENERAL) | --       | 1965-2011,<br>2013-15, 9999 | <a href="#">49</a> , <a href="#">79</a> , <a href="#">99</a> |

## NCSA MAKE: American Motors\* (01) (AMER)

### AUTOMOBILES

| Codes | NCSA Models | Includes                                                                            | Model Years  | NCSA Body Types                   |
|-------|-------------|-------------------------------------------------------------------------------------|--------------|-----------------------------------|
| 001   | Rambler     | Rogue, 220, 330, 440, 440-H, Scrambler Deluxe, Custom, Super, Classic, Brougham, SC | 1954-69,9999 | <a href="#">01,02,04,06,08,09</a> |
| 002   | Rebel       | Mariner, Briarcliff, Westerner, The Machine, SST, 550, Grant, King                  | 1967-70,9999 | <a href="#">01,02,04,06,08,09</a> |
| 002   | Matador     | Brougham, X, Oleg Cassini, Barcelona, Police, The Machine                           | 1971-78,9999 | <a href="#">02,04,06,08,09</a>    |
| 002   | Marlin      | Black, Radar, Tahiti, Marlin II                                                     | 1965-67,9999 | <a href="#">02,08,09</a>          |
| 003   | Ambassador  | 800, 880, 990, SST, DPL, Brougham, DDL, Limited                                     | 1958-74,9999 | <a href="#">02,04,06,08,09</a>    |
| 004   | Pacer       | D/L, X, Limited                                                                     | 1975-80,9999 | <a href="#">02,03,06,09</a>       |
| 005   | AMX         | (2-seater only)                                                                     | 1968-70,9999 | <a href="#">02,03,09</a>          |
| 006   | Javelin     | SST, AMX (1971-1974)                                                                | 1968-74,9999 | <a href="#">02,03,09</a>          |

| <b>Codes</b> | <b>NCSA Models</b>   | <b>Includes</b>                                                       | <b>Model Years</b> | <b>NCSA Body Types</b>         |
|--------------|----------------------|-----------------------------------------------------------------------|--------------------|--------------------------------|
| 007          | Hornet               | SST, Sportabout, AMX D/L, SC-360, Gucci Edition, Levi Trim Package, X | 1970-77,9999       | <a href="#">02-04,06,08,09</a> |
| 007          | Concord              | AMX Limited, D/L, Levi Trim, Sport, Base, Sundancer                   | 1978-83,9999       | <a href="#">01-04,06,08,09</a> |
| 008          | Gremlin              | Base, X, Levi Trim, GT, AMX                                           | 1970-78,9999       | <a href="#">03,09</a>          |
| 008          | Spirit               | GT, AMX, D/L, SST                                                     | 1979-83,9999       | <a href="#">02,03,09</a>       |
| 009          | Eagle                | Sport, Series 30, Sundancer, Limited                                  | 1980-88,9999       | <a href="#">01-04,06,08,09</a> |
| 010          | Eagle SX-4           | 50 Series, Kammback, Sport                                            | 1981-84,9999       | <a href="#">02,03,09</a>       |
| 398          | Other (automobile)   | --                                                                    | 1940-88,9999       | <a href="#">01-04,06,08,09</a> |
| 399          | Unknown (automobile) | --                                                                    | 1940-88,9999       | <a href="#">01-04,06,08,09</a> |

**\* NOTE: Alliance, Encore, Premier (including L, DL, and Limited) are coded under [Renault \(46\)](#).**

### **NCSA MAKE: Audi (32) (AUDI)**

#### **AUTOMOBILES**

| <b>Codes</b> | <b>NCSA Models</b>                                                                                                   | <b>Includes</b>                                                                                   | <b>Model Years</b>    | <b>NCSA Body Types</b>         |
|--------------|----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-----------------------|--------------------------------|
| 031          | Super 90                                                                                                             | --                                                                                                | 1966-72,9999          | <a href="#">02,04,06,08,09</a> |
| 032          | 100                                                                                                                  | S, CS, LS, GL, Quattro (1989-on)                                                                  | 1970-77; 1989-94,9999 | <a href="#">02,04,06,08,09</a> |
| 033          | Fox                                                                                                                  | --                                                                                                | 1973-79,9999          | <a href="#">02,04,06,08,09</a> |
| 034          | 4000                                                                                                                 | Quattro, Coupe, Coupe GT, CS, S                                                                   | 1980-93,9999          | <a href="#">02,04,08,09</a>    |
| 035          | 5000                                                                                                                 | Quattro, CS, S, CS Turbo Quattro, T                                                               | 1978-93,9999          | <a href="#">04,06,09</a>       |
| 036          | 80/90                                                                                                                | Quattro, Coupe Quattro                                                                            | 1988-95,9999          | <a href="#">04</a>             |
| 037          | 200                                                                                                                  | Turbo Quattro                                                                                     | 1989-92,9999          | <a href="#">04,06,09</a>       |
| 038          | V-8 Quattro                                                                                                          | 100 series                                                                                        | 1990-94,9999          | <a href="#">04</a>             |
| 039          | Coupe Quattro                                                                                                        | 4000 series                                                                                       | 1990-91,9999          | <a href="#">02,03,09</a>       |
| 040          | S4 (1992-1994; 2000-2011 only. See model 055 for 2012 on)/S6 (1992-1994; 2000-2011 only. See model 056 for 2013 on.) | Quattro, Avant Quattro (Wagon), 3.0, 4.2 Saloon, Avant (2.7), RS4, Special Edition, V10, 5.6, 5.2 | 1992-95; 2000-11,9999 | <a href="#">01,04,06,09</a>    |

| <b>Codes</b> | <b>NCSA Models</b>                          | <b>Includes</b>                                                                                                                                                                                                                                                             | <b>Model Years</b>              | <b>NCSA Body Types</b>             |
|--------------|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------------------|
| 041          | Cabriolet (1994-1998)                       | --                                                                                                                                                                                                                                                                          | 1994-98,9999                    | <a href="#">01</a>                 |
| 042          | A6                                          | Avant Quattro Wagon (3.0L, 3.0T), Quattro (2.7T, 4.2), FrontTrak (2.8, 3.0L), RS6, 3.2, S Line, 3.0T (Premium, Premium Plus, Prestige), 2.0T (Premium, Premium Plus), Special Edition, 45 TFSI (Premium, Premium Plus, Prestige), 55 TFSI (Premium, Premium Plus, Prestige) | 1995-2020, 9999                 | <a href="#">04, 06, 09</a>         |
| 043          | A4                                          | Avant Wagon (1.8T, 2.0T, 2.8, 3.0, 3.2), Avant Quattro Wagon, FrontTrak (1.8, 2.8, 3.0), Quattro (1.8T, 2.0T, 3.0, 3.2), Special Edition, S Line, 2.0T (Premium, Premium Plus, Prestige)                                                                                    | 1996-2019, 9999                 | <a href="#">01,04,06,09</a>        |
| 044          | A8                                          | 4.2 Quattro, L (3.0, 4.0, 55 TFSI, 60 TFSI), W12 (6.3), NWB, 3.0T, 4.0T, TDI, Sport                                                                                                                                                                                         | 1997-2020, 9999                 | <a href="#">04</a>                 |
| 045          | TT/TTS                                      | FWD, Quattro AWD, 180, 225 Quattro Roadster, FrontTrak (180), 1.8L, 2.0 (Base, TFSI), 3.2L, S Line, RS (Premium, Premium Plus, Prestige), 2.0T (Premium Plus, Prestige), RS, 45 TFSI                                                                                        | 2000-20,9999                    | <a href="#">01-03, 09</a>          |
| 046          | S8                                          | 4.2 Quattro, 5.2, 4.0 TFSI, Plus (4.0)                                                                                                                                                                                                                                      | 2001-03; 2007-09; 2012-20, 9999 | <a href="#">02,04, 08, 09</a>      |
| 047          | Allroad (2001-05 only. See 403 for 2013 on) | QuattroWagon, 2.7T, 4.2                                                                                                                                                                                                                                                     | 2001-05, 9999                   | <a href="#">06</a>                 |
| 048          | A3                                          | 2.0T/FSI, 3.2 S Line (Premium, Premium Plus), TDI, 1.8, Prestige, Sportback e-tron (Premium, Premium Plus, Prestige), 40 TFSI (Premium, Premium Plus), 45 TFSI (Premium, Premium Plus)                                                                                      | 2006-20,9999                    | <a href="#">01, 03, 04, 05, 09</a> |

| <b>Codes</b> | <b>NCSA Models</b>                                        | <b>Includes</b>                                                                           | <b>Model Years</b>     | <b>NCSA Body Types</b>       |
|--------------|-----------------------------------------------------------|-------------------------------------------------------------------------------------------|------------------------|------------------------------|
| 049          | A5                                                        | 2.0, 2.0T, 3.2, (Premium, Premium Plus, Prestige), Quattro                                | 2008-19,9999           | <a href="#">01,02,05,09</a>  |
| 050          | R8                                                        | 4.2, 5.2, Spyder (V8, V10), GT (Spyder), (V8, V10, V10 Plus)                              | 2008-20,9999           | <a href="#">01,02,09</a>     |
| 051          | A7                                                        | Premium, Premium Plus, Prestige, (3.0 TFSI/TDI), 55 TFSI (Premium, Premium Plus Prestige) | 2008-10, 2012-20, 9999 | <a href="#">04, 05, 09</a>   |
| 052          | S5                                                        | 4.2, 3.0T (Premium Plus, Prestige), Quattro                                               | 2008-19,9999           | <a href="#">01,02,05,09</a>  |
| 054          | RS5                                                       | 4.2 Prestige, V8                                                                          | 2013-15, 2018-19, 9999 | <a href="#">01,02,05, 09</a> |
| 055          | S4 (2012 on only. See model 040 for 1992-1994; 2000-2011) | 3.0T Prestige, Premium Plus                                                               | 2012-19,9999           | <a href="#">04</a>           |
| 056          | S6 (2013 on. See model 040 for 1992-1994; 2000-2011)      | 4.0TFSI Premium Plus, Prestige, 2.9 TFSI (Premium Plus, Prestige)                         | 2013-18, 2020, 9999    | <a href="#">04</a>           |
| 057          | S7                                                        | 4.0, Premium Plus, Prestige, 2.9 TFSI (Premium Plus, Prestige)                            | 2013-18, 2020, 9999    | <a href="#">04, 05, 09</a>   |
| 058          | RS7                                                       | 4.0 TFSI, Performance                                                                     | 2014-19,9999           | <a href="#">05</a>           |
| 059          | S3                                                        | 2.0 (Premium Plus, Prestige)                                                              | 2015-20,9999           | <a href="#">04, 05, 09</a>   |
| 060          | RS3                                                       | --                                                                                        | 2017-19,9999           | <a href="#">04</a>           |
| 398          | Other (automobile)                                        | --                                                                                        | 1970-2020, 9999        | <a href="#">01-06,08,09</a>  |
| 399          | Unknown (automobile)                                      | --                                                                                        | 1970-2020, 9999        | <a href="#">01-06,08,09</a>  |

## LIGHT TRUCKS

| Codes | NCSA Models                                                   | Includes                                                                     | Model Years  | NCSA Body Types                                              |
|-------|---------------------------------------------------------------|------------------------------------------------------------------------------|--------------|--------------------------------------------------------------|
| 401   | Q7 (For 2007-2018 only. For model years 2019 on, see 32-422.) | 3.6/4.2, 3.0T, TDI (Premium, Premium Plus, Prestige) Hybrid, S Line,         | 2007-18,9999 | <a href="#">14</a>                                           |
| 402   | Q5                                                            | 2.0T, 3.2, 3.0T (Premium, Premium Plus, Prestige), Hybrid (2.0)              | 2008-20,9999 | <a href="#">14</a>                                           |
| 403   | Allroad (2013 on. For 2001-2005 see model 047.)               | 2.0T (Premium, Premium Plus, Prestige)                                       | 2013-20,9999 | <a href="#">14</a>                                           |
| 404   | SQ5                                                           | 3.0 (Premium, Premium Plus, Prestige)                                        | 2014-20,9999 | <a href="#">14</a>                                           |
| 405   | Q3                                                            | 2.0 TFSI (Premium Plus, Prestige), 45 TFSI (Premium, Premium Plus, Prestige) | 2015-20,9999 | <a href="#">14</a>                                           |
| 406   | e-Tron                                                        | Premium Plus, Prestige                                                       | 2019         | <a href="#">14</a>                                           |
| 421   | Q8                                                            | Premium, Premium Plus, Prestige, 55 TFSI (Premium, Premium Plus, Prestige)   | 2019-20,9999 | <a href="#">15</a>                                           |
| 422   | Q7 (For 2019 on. For model years 2007-2018, see 32-401.)      | 2.0T, 3.0T                                                                   | 2019         | <a href="#">15</a>                                           |
| 499   | Unknown (light truck)                                         | --                                                                           | 2007-20,9999 | <a href="#">14</a> , <a href="#">15</a> , <a href="#">19</a> |

## UNKNOWN

| Codes | NCSA Models    | Includes | Model Years     | NCSA Body Types                         |
|-------|----------------|----------|-----------------|-----------------------------------------|
| 999   | Unknown (AUDI) | --       | 1966-2020, 9999 | <a href="#">19</a> , <a href="#">99</a> |



**NCSA MAKE: Austin/Austin Healey (33) (AUST)****AUTOMOBILES**

| <b>Codes</b> | <b>NCSA Models</b>         | <b>Includes</b>                                                                                                     | <b>Model Years</b> | <b>NCSA Body Types</b>         |
|--------------|----------------------------|---------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------------|
| 031          | Marina                     | GT                                                                                                                  | 1973-75,9999       | <a href="#">01-04,08,09</a>    |
| 032          | America                    | --                                                                                                                  | 1968-72,9999       | <a href="#">02</a>             |
| 033          | Healey Sprite              | Mark II, MKIV/Princess (Special Order)                                                                              | 1958-70,9999       | <a href="#">01,04,09</a>       |
| 034          | Healey 100/3000            | M, S, Mark III                                                                                                      | 1953-67,9999       | <a href="#">01</a>             |
| 035          | Mini/Mini Cooper/Mini Moke | 850, S                                                                                                              | 1960-69,9999       | <a href="#">01,02,06,09</a>    |
| 398          | Other (automobile)         | A35, A40, Westminster, Cambridge, Somerset, Seven, Hereford, Sports, Sheerline, Atlantic, Countryman, Dorset, Devon | 1947-75,9999       | <a href="#">01-04,06,08,09</a> |
| 399          | Unknown (automobile)       | --                                                                                                                  | 1947-75,9999       | <a href="#">01-04,06,08,09</a> |

**NCSA MAKE: BMW (34) (BMW)****AUTOMOBILES**

| <b>Codes</b> | <b>NCSA Models</b>  | <b>Includes</b>                                                                                                                                                                                                                    | <b>Model Years</b> | <b>NCSA Body Types</b>      |
|--------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------|
| 031          | 1600/1800/2000/2002 | Ti, Tii, Tilux, TR, CS, 1600-2, SA, Turbo, A, 1500, 2600, 501, 502                                                                                                                                                                 | 1955-76,9999       | <a href="#">01-04,08,09</a> |
| 032          | Coupe (before 1975) | 2800CS, 3.0CS, 3.0csi, 3.0csl, 3200, 503, 507, M1, 1802, 2000c/cs, 2002                                                                                                                                                            | 1956-76,9999       | <a href="#">01-03,09</a>    |
| 033          | Bavarian Sedan      | 2500, 2800, 2.8 Bavarian                                                                                                                                                                                                           | 1969-74,9999       | <a href="#">04</a>          |
| 034          | 3-series            | 3.0s/si, 318i/is/ti/iC, 320i, 323iS/iC/i/Ci, 325e/es/i/iS/ii/C/Ci/Cic/xi/iT/xiT, Sport Wagon (iT/xiT), 328 d/i/iS/ti/iC/Ci/x/xi, xDrive, 330e/i/Ci/Cic/xi, 335i/is/xi/d, 340i, xDrive, ActiveHybrid, M3, Gran Turismo (328i), 340i | 1971-2020, 9999    | <a href="#">01-06,08,09</a> |

| <b>Codes</b> | <b>NCSA Models</b>                              | <b>Includes</b>                                                                                                                                                                                        | <b>Model Years</b>     | <b>NCSA Body Types</b>              |
|--------------|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------------------------------------|
| 035          | 5-series                                        | 524i,525i/xi,528i/iT/xi, xDrive, 530e/i/iT/xi,533i, 535d/i/xi, xDrive, 550i, xDrive 540/i/iA/iT, TD Sport Wagon,525i/iT, (wagon 1992-93), M5, 545i, 550i/ix, Gran Turismo (535i, 550i), ActiveHybrid 5 | 1975-2020, 9999        | <a href="#">04-06,09</a>            |
| 036          | 6-series                                        | 630, 633, 635, csi, M6, L6, 640i, 645Ci, 650i/ix, Neiman Marcus Edition, xDrive, Alpina B, B6, Gran Turismo (640i)                                                                                     | 1976-89, 2004-19, 9999 | <a href="#">01,02,04,05, 08, 09</a> |
| 037          | 7-series                                        | 733i, 735i, L7, 740 e/d/i/L/iL /iA/Li Protection,750 i/iL/Li/ Lxi/ix Protection,745i/Li, 760i/Li, Alpina B7, Individual, ActiveHybrid 7, xDrive, M760i                                                 | 1978-2020, 9999        | <a href="#">04</a>                  |
| 038          | 8-series                                        | 840Ci/cia/i, 850i/iS/Ci/Cia, xDrive, M8                                                                                                                                                                | 1991-97, 2019-20, 9999 | <a href="#">01,02,09</a>            |
| 039          | Z3                                              | 2.3/2.8/2.5i/3.0i Roadster, MRoadster, MCoupe, 2.8/3.0i Coupe                                                                                                                                          | 1996-2003, 9999        | <a href="#">01-03, 09</a>           |
| 040          | Z8                                              | --                                                                                                                                                                                                     | 2000-03, 9999          | <a href="#">01</a>                  |
| 041          | V5                                              | --                                                                                                                                                                                                     | 2007-08, 9999          | <a href="#">06</a>                  |
| 042          | Z4                                              | 2.5i, 2.8i, 3.0i/si, 3.5i/is, Z4M/s/sDrive, 28i, 30i, 35i/s                                                                                                                                            | 2003-16, 2018-20, 9999 | <a href="#">01,02,09</a>            |
| 043          | 1-Series                                        | 128i, 135i/is, Electric                                                                                                                                                                                | 2008-14, 9999          | <a href="#">01,02,09</a>            |
| 044          | X6 (For 2008-2015. For 2016 on, see model 404.) | 35i, 50i, ActiveHybrid, M, xDrive                                                                                                                                                                      | 2008-15, 9999          | <a href="#">05</a>                  |
| 045          | i3                                              | Base, Range Extender, s                                                                                                                                                                                | 2014-19, 9999          | <a href="#">03</a>                  |
| 046          | i8                                              | --                                                                                                                                                                                                     | 2014-17, 2019, 9999    | <a href="#">01, 02, 09</a>          |
| 047          | 4-Series                                        | 428i, 435i, xDrive, M4, 430i, 440i                                                                                                                                                                     | 2014-20, 9999          | <a href="#">01, 02, 04, 08, 09</a>  |
| 048          | 2-Series                                        | 228i, 230i, M235i, M240i, XDrive, M2                                                                                                                                                                   | 2014-20, 9999          | <a href="#">01, 02, 09</a>          |
| 049          | X4                                              | 28i, 35i, M40i, 30i                                                                                                                                                                                    | 2015-20, 9999          | <a href="#">05</a>                  |

| <b>Codes</b> | <b>NCSA Models</b>   | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>      |
|--------------|----------------------|-----------------|--------------------|-----------------------------|
| 398          | Other (automobile)   | --              | 1955-2020, 9999    | <a href="#">01-06,08,09</a> |
| 399          | Unknown (automobile) | --              | 1955-2020, 9999    | <a href="#">01-06,08,09</a> |

## **LIGHT TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b>                                                                                                                                       | <b>Includes</b>                                                                             | <b>Model Years</b> | <b>NCSA Body Types</b>     |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------|----------------------------|
| 401          | X5 (For 2000-17 (for models manufactured as 2017 during the 2016 model year). For 2017 models manufactured during the 2017 model year on, see model 421) | 3.0i/si, 4.0is, 4.4i, 4.6is, 4.8is, M, 35i/d, Premium, 50i, Sport Activity, Premium. sDrive | 2000-17,9999       | <a href="#">14</a>         |
| 402          | X3                                                                                                                                                       | 25i, 28 d/i, 30i/xDrive, 35i, 4.8is, M40i, M Sports, xLine, Luxury Package                  | 2004-20,9999       | <a href="#">14</a>         |
| 403          | X1                                                                                                                                                       | 28i/is, 35i, xDrive, xLine                                                                  | 2012-20, 9999      | <a href="#">14</a>         |
| 404          | X6 (For 2016 on. For 2008-2015, see model 044.)                                                                                                          | 35i, 40i, 50i, xDrive, sDrive, M, M50i                                                      | 2016-20, 9999      | <a href="#">14</a>         |
| 405          | X2                                                                                                                                                       | 28i, xDrive, M35i                                                                           | 2018-20, 9999      | <a href="#">14</a>         |
| 421          | X5 (For 2017 models manufactured during the 2017 model year on. For 2000-17 (for models manufactured as 2017 during the 2016 model year), see model 401) | 35i/d, 40e/i, 50i, M, M50i                                                                  | 2017-20, 9999      | <a href="#">15</a>         |
| 422          | X7                                                                                                                                                       | 30i/40i xDrive, M50i                                                                        | 2019-20,9999       | <a href="#">15</a>         |
| 499          | Unknown (light truck)                                                                                                                                    | --                                                                                          | 2000-20,9999       | <a href="#">14, 15, 19</a> |

## MOTORCYCLES

| Codes | NCSA Models         | Includes    | Model Years             | NCSA Body Types            |
|-------|---------------------|-------------|-------------------------|----------------------------|
| 703   | 125-349cc           | G310        | 1948-66, 2017-20, 9999  | <a href="#">80, 84, 89</a> |
| 705   | 450-749cc           | --          | 1950-2003; 2006-19,9999 | <a href="#">80, 84, 89</a> |
| 706   | 750cc and over      | --          | 1969-2020, 9999         | <a href="#">80, 84, 89</a> |
| 707   | Electric Motorcycle | C Evolution | 2017-2019, 9999         | <a href="#">84</a>         |
| 709   | Unknown cc          | --          | 1948-2020, 9999         | <a href="#">80, 84, 89</a> |

## UNKNOWN

| Codes | NCSA Models   | Includes | Model Years     | NCSA Body Types        |
|-------|---------------|----------|-----------------|------------------------|
| 999   | Unknown (BMW) | --       | 1948-2020, 9999 | <a href="#">49, 99</a> |

## NCSA MAKE: Buick (18) (BUIC)

### AUTOMOBILES

| Codes | NCSA Models                               | Includes                                                                                            | Model Years           | NCSA Body Types                   |
|-------|-------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------|-----------------------------------|
| 001   | Special/Skylark                           | GS (350, 400, 455), Deluxe GS California, Sport Wagon, Custom Roadmaster (1946-59), Skylark Edition | 1936-73, 9999         | <a href="#">01,02,04,06,08,09</a> |
| 002   | LeSabre/Centurion/Wildcat                 | Estate Wagon, Invicta, Custom, Limited, T-Type, Ltd, C.M.I, LE, Celebration Edition, Best Seller    | 1959-2005, 9999       | <a href="#">01,02,04,06,08,09</a> |
| 003   | Electra/Electra 225/Park Avenue (1991-on) | Limited, Park Avenue, Ultra, Base, Prestige, SE                                                     | 1959-2005, 9999       | <a href="#">01,02,04,06,08,09</a> |
| 004   | Roadmaster                                | Estate Wagon, Limited                                                                               | 1991-96,9999          | <a href="#">04,06,09</a>          |
| 005   | Riviera                                   | S-Type, T-Type, Coupe Anniversary Edition, Silver Arrow                                             | 1963-93; 1995-99,9999 | <a href="#">01,02,09</a>          |

| <b>Codes</b> | <b>NCSA Models</b>                                             | <b>Includes</b>                                                                                | <b>Model Years</b>    | <b>NCSA Body Types</b>            |
|--------------|----------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------------|-----------------------------------|
| 007          | Century                                                        | Luxus, T-Type, FWD (82-on), Custom, Regal (72-77), Limited, LE, SE, Base, Special              | 1954-2005, 9999       | <a href="#">01,02,04,06,08,09</a> |
| 008          | Apollo/Skylark                                                 | Skylark (75), S/R                                                                              | 1973-76,9999          | <a href="#">02-04,08,09</a>       |
| 010          | Regal (RWD only)                                               | Turbo, Luxus, Grand National GNX, T-Type                                                       | 1978-88,9999          | <a href="#">02,04,06,08,09</a>    |
| 012          | Skyhawk                                                        | S-Type, Roadhawk, T-Type, GT                                                                   | 1975-80; 1982-89,9999 | <a href="#">02-04,06,08,09</a>    |
| 015          | Skylark (76-85)                                                | S/R, S, Limited, Sport, T-Type                                                                 | 1975-85,9999          | <a href="#">02-04,08,09</a>       |
| 018          | Somerset/Skylark                                               | Skylark (86-on), Somerset, GS, Regal, Custom, Limited, T-Type                                  | 1985-98,9999          | <a href="#">02,04,08,09</a>       |
| 019          | Regal (2011 on)                                                | GS, CXL, Turbo, Premium I/II, Base, Grand National, Sport Touring, Sportback/GS, TourX, Avenir | 2011-20,9999          | <a href="#">04, 05, 06, 09</a>    |
| 020          | Regal (FWD) (For 2011 on, see model 019)                       | Limited, Custom, Gold, Grand Sport GS, LS, Sport                                               | 1987-2004, 9999       | <a href="#">02,04,08,09</a>       |
| 021          | Reatta                                                         | --                                                                                             | 1988-91,9999          | <a href="#">01,02,09</a>          |
| 022          | LaCrosse                                                       | CX, CXL (FWD/AWD), CXS, Super, Leather, Premium I/II, Touring, Preferred, Essence, Avenir      | 2005-19,9999          | <a href="#">04</a>                |
| 023          | Lucerne                                                        | CX, CXL V6, CXL V8, CXS, Super, Special Edition                                                | 2006-11,9999          | <a href="#">04</a>                |
| 024          | Enclave (2008-12 model years only. For 2013 on see model 421.) | CX, CXL (FWD/AWD)                                                                              | 2008-12,9999          | <a href="#">06</a>                |
| 025          | Verano                                                         | Base, Convenience, Leather, Turbo, Premium, Sport, Touring                                     | 2012-18,9999          | <a href="#">04</a>                |
| 026          | Cascada                                                        | 1SV, Base, Premium, Sport Touring                                                              | 2016-19, 9999         | <a href="#">01</a>                |
| 031          | Opel Kadett                                                    | --                                                                                             | 1965-72,9999          | <a href="#">02,04,06,08,09</a>    |
| 032          | Opel Manta                                                     | 1900, Luxus, Rallye, Sports Coupe                                                              | 1966-75,9999          | <a href="#">02,04,06,08,09</a>    |
| 033          | Opel GT                                                        | --                                                                                             | 1969-75,9999          | <a href="#">02</a>                |

| <b>Codes</b> | <b>NCSA Models</b>   | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>         |
|--------------|----------------------|-----------------|--------------------|--------------------------------|
| 034          | Opel Isuzu           | Deluxe, Sport   | 1976-79,9999       | <a href="#">02,04,08,09</a>    |
| 398          | Other (automobile)   | --              | 1965-2020, 9999    | <a href="#">01-04,06,08,09</a> |
| 399          | Unknown (automobile) | --              | 1950-2020, 9999    | <a href="#">01-04,06,08,09</a> |

## **LIGHT TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b>                                        | <b>Includes</b>                                                                | <b>Model Years</b>     | <b>NCSA Body Types</b>         |
|--------------|-----------------------------------------------------------|--------------------------------------------------------------------------------|------------------------|--------------------------------|
| 401          | Rendezvous                                                | CX, CXL, Ultra, Plus                                                           | 2002-07,9999           | <a href="#">14</a>             |
| 402          | Rainier                                                   | CXL, CXL Plus                                                                  | 2004-07,9999           | <a href="#">14</a>             |
| 404          | Encore                                                    | Convenience, Leather, Premium, Base, Sport Touring, Preferred (I, II), Essence | 2013-20, 9999          | <a href="#">14</a>             |
| 405          | Envision                                                  | Preferred, Premium (I, II) Essence, Base                                       | 2016-20, 9999          | <a href="#">14</a>             |
| 421          | Enclave (2013 on. See model 024 for 2008-12 model years.) | Convenience, Leather, Premium, Avenir, Essence, Preferred                      | 2013-20, 9999          | <a href="#">15</a>             |
| 441          | Terraza                                                   | CX, CXL                                                                        | 2005-07, 9999          | <a href="#">20</a>             |
| 498          | Other (light truck)                                       | --                                                                             | 2002-07, 2013-20, 9999 | <a href="#">14, 15, 19, 20</a> |
| 499          | Unknown (light truck)                                     | --                                                                             | 2002-07, 2013-20, 9999 | <a href="#">14, 15, 19, 20</a> |

## **UNKNOWN**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|--------------------|-----------------|--------------------|------------------------|
| 999          | Unknown (BUICK)    | --              | 1946-2020, 9999    | <a href="#">49</a>     |

**NCSA MAKE: Cadillac (19) (CADI)****AUTOMOBILES**

| <b>Codes</b> | <b>NCSA Models</b>                   | <b>Includes</b>                                                                                                                                                         | <b>Model Years</b> | <b>NCSA Body Types</b>           |
|--------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------------------|
| 003          | Deville/Fleetwood (except Limousine) | Coupe de Ville, Sedan de Ville, Fleetwood Brougham, Fleetwood 60 Special, d'Elegance, Concours, DHS, DTS                                                                | 1940-2005, 9999    | <a href="#">01,02,04,08,09</a>   |
| 004          | Limousine                            | Fleetwood 75, Formal, Deville-based, DTS                                                                                                                                | 1940-2019, 9999    | <a href="#">12</a>               |
| 005          | Eldorado                             | Biarritz, El-doro, Touring Coupe, ESC, ETC                                                                                                                              | 1967-2003, 9999    | <a href="#">01,02,09</a>         |
| 006          | Commercial Series                    | Ambulance/Hearse, Professional                                                                                                                                          | 1940-2019, 9999    | <a href="#">09, 10-12</a>        |
| 009          | Allante'                             | --                                                                                                                                                                      | 1987-93,9999       | <a href="#">01,02,09</a>         |
| 014          | Seville                              | Elegante, STS, SLS                                                                                                                                                      | 1976-2004, 9999    | <a href="#">04</a>               |
| 016          | Cimarron                             | D'Oro                                                                                                                                                                   | 1982-88,9999       | <a href="#">04</a>               |
| 017          | Catera                               | Sport                                                                                                                                                                   | 1997-2001, 9999    | <a href="#">04</a>               |
| 018          | CTS/CTC                              | Luxury, Luxury Sport, V-Series, 2.0L, 2.8L, 3.0L, 3.6L, 6.2L Supercharged, Premium, Performance, Standard, Luxury (Base and Premium), V-Sport (Base and Premium Luxury) | 2003-19,9999       | <a href="#">02-04,06, 08, 09</a> |
| 019          | XLR                                  | Neiman Marcus Edition, V-Series, Standard, Platinum                                                                                                                     | 2004-09,9999       | <a href="#">01</a>               |
| 020          | SRX                                  | V6, V8, Sports Package, 2.8L Turbo, 3.0L, Luxury, Performance, Premium, Standard                                                                                        | 2004-16,9999       | <a href="#">06</a>               |
| 021          | STS                                  | V6, V8, V-Series, Luxury, Premium, Standard, Platinum, 3.6L                                                                                                             | 2005-11,9999       | <a href="#">04</a>               |
| 022          | DTS                                  | Luxury I, II, III, V8, 3.6L, Performance, Platinum                                                                                                                      | 2006-11,9999       | <a href="#">04</a>               |

| <b>Codes</b> | <b>NCSA Models</b>   | <b>Includes</b>                                                                                              | <b>Model Years</b> | <b>NCSA Body Types</b>                     |
|--------------|----------------------|--------------------------------------------------------------------------------------------------------------|--------------------|--------------------------------------------|
| 023          | XTS                  | Standard, Luxury, Premium, Platinum, V-Sport, Limousine, Funeral Hearse, Twin Turbo                          | 2013-19,9999       | <a href="#">04, 09, 11, 12</a>             |
| 024          | ATS                  | 2.0L/2.5L/3.6L (Standard, Luxury, Performance, Premium, Turbo) V-Series                                      | 2013-19,9999       | <a href="#">02,04, 08, 09</a>              |
| 025          | ELR                  | --                                                                                                           | 2014-16,9999       | <a href="#">02</a>                         |
| 026          | CT6                  | 2.0L (Turbo, Luxury) 3.0L (Twin Turbo, Platinum, Luxury), 3.6L (Premium Luxury, Platinum), Plug-In, V-Series | 2016-19,9999       | <a href="#">04</a>                         |
| 027          | CT5                  | Luxury, Premium Luxury, Sport                                                                                | 2020               | <a href="#">04</a>                         |
| 398          | Other (automobile)   | --                                                                                                           | 1965-2020, 9999    | <a href="#">01,02,04,06, 08,09, 11, 12</a> |
| 399          | Unknown (automobile) | --                                                                                                           | 1950-2020, 9999    | <a href="#">01,02,04,06, 08,09, 11, 12</a> |

## **LIGHT TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b>                                   | <b>Includes</b>                                                        | <b>Model Years</b>       | <b>NCSA Body Types</b>             |
|--------------|------------------------------------------------------|------------------------------------------------------------------------|--------------------------|------------------------------------|
| 401          | XT5                                                  | 3.6L (Base, Luxury, Premium, Platinum)                                 | 2017-19, 9999            | <a href="#">14</a>                 |
| 421          | Escalade/ESV (from 2004 on; see 431 for 2003 only)   | 4WD, 2WD, 6.2L, Standard, Platinum, Limousine, Hybrid, Luxury, Premium | 1999-2000; 2002-19,9999  | <a href="#">15</a>                 |
| 422          | XT4                                                  | Luxury, Premium Luxury, Sport                                          | 2019                     | <a href="#">15</a>                 |
| 423          | XT6                                                  | Base, Luxury, Premium                                                  | 2020                     | <a href="#">15</a>                 |
| 431          | Escalade ESV (2003 only)                             | Luxury, Premium, Platinum                                              | 2003, 9999               | <a href="#">16</a>                 |
| 480          | Escalade EXT (from 2002 - 2006; for 2007 on see 481) | 4WD, 2WD                                                               | 2002-06,9999             | <a href="#">34</a>                 |
| 481          | Escalade EXT (from 2007 on; see 480 for 2002-2006)   | 4WD, 2WD, Luxury, Premium, Standard                                    | 2007-13, 9999            | <a href="#">34</a>                 |
| 498          | Other (light truck)                                  | --                                                                     | 1999-2000; 2002-20, 9999 | <a href="#">14, 15, 16, 19, 34</a> |



| <b>Codes</b> | <b>NCSA Models</b>    | <b>Includes</b> | <b>Model Years</b>         | <b>NCSA Body Types</b>                                       |
|--------------|-----------------------|-----------------|----------------------------|--------------------------------------------------------------|
| 499          | Unknown (light truck) | --              | 1999-2000;<br>2002-20,9999 | <a href="#">19</a> , <a href="#">39</a> , <a href="#">49</a> |

## UNKNOWN

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|--------------------|-----------------|--------------------|------------------------|
| 999          | Unknown (CADILLAC) | --              | 1940-2020,<br>9999 | <a href="#">49</a>     |

## ***NCSA MAKE: Chevrolet (20) (CHEV)***

### AUTOMOBILES

| <b>Codes</b> | <b>NCSA Models</b>                                | <b>Includes</b>                                                                                                                    | <b>Model Years</b>       | <b>NCSA Body Types</b>            |
|--------------|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------------------------|
| 001          | Chevelle/Malibu (thru '83)                        | Classic, Councours, Laguna**, S-3, Greenbriar, Estate, 300, SS-396/454, Deluxe                                                     | 1963-83,9999             | <a href="#">01,02,04,06,08,09</a> |
| 002          | Impala/Caprice (For SS from 2014 on, use 20-021.) | Biscayne, Belair, Super Sport, Classic, Classic Brougham, Townsman, Brookwood, Kingswood, LS, LT, LTZ, Sport, SS, Luxury, Premier  | 1955-96; 2000-20, 9999   | <a href="#">01,02,04,06,08,09</a> |
| 004          | Corvette                                          | Stingray, C5, Z06, Z06-R 50th Anniversary Edition, Commemorative Edition, Indy Pace Car, ZR1, Grand Sport, 427, 1LZ, 2LZ, 3LZ, ZL1 | 1953-82; 1984-2019, 9999 | <a href="#">01-03,09</a>          |
| 006          | Corvair                                           | Monza, Corsa, 500, Yenko                                                                                                           | 1960-69,9999             | <a href="#">01,02,04,06,08,09</a> |
| 007          | El Camino                                         | Royal Knight, SS                                                                                                                   | 1958-94,9999             | <a href="#">10</a>                |
| 008          | Nova (-'79)                                       | Chevy II, LN, LE, Concours, SS-350/396, Rally                                                                                      | 1962-79,9999             | <a href="#">01-04,06,08,09</a>    |
| 009          | Camaro                                            | SS, RS, LT, Berlinetta, Iroc-Z, Z/28, LS, LT, ZL1, 2.0L, 3.6L, 6.2L                                                                | 1967-2002, 2010-20,9999  | <a href="#">01-03,09</a>          |
| 010          | Monte Carlo (thru '88)                            | LS, SS, Aerocoupe, Landau, Z34                                                                                                     | 1970-88,9999             | <a href="#">02</a>                |

| <b>Codes</b> | <b>NCSA Models</b>                                        | <b>Includes</b>                                  | <b>Model Years</b> | <b>NCSA Body Types</b>             |
|--------------|-----------------------------------------------------------|--------------------------------------------------|--------------------|------------------------------------|
| 011          | Vega                                                      | GT, Cosworth                                     | 1971-77,9999       | <a href="#">02-04,06,08,09</a>     |
| 012          | Monza                                                     | Spyder, 2 + 2, Towne Coupe                       | 1974-80,9999       | <a href="#">02-04,06,08,09</a>     |
| 013          | Chevette                                                  | S, Scooter, CS                                   | 1976-87,9999       | <a href="#">03-05,07,09</a>        |
| 015          | Citation                                                  | X-11, Citation II                                | 1980-85,9999       | <a href="#">02-05,07,08,09</a>     |
| 016          | Cavalier                                                  | CS, RS, Z24, LS, Sport, Special Value Package    | 1982-2005, 9999    | <a href="#">01-04,06,08,09</a>     |
| 017          | Celebrity                                                 | CS, Eurosport, VR                                | 1982-90,9999       | <a href="#">02,04,06,08,09</a>     |
| 019          | Beretta/Corsica                                           | GT, GTZ, LT, LTZ, PX, QX, KX, LX, MX, Z26        | 1982-96,9999       | <a href="#">02,04,05,08,09</a>     |
| 020          | Lumina                                                    | Z-34, Euro, LTZ, LS                              | 1990-2001, 9999    | <a href="#">02,04,06,08,09</a>     |
| 021          | SS (For 2014 on. For Impala/Caprice SS use model 20-002.) | LS, LT, LTZ                                      | 2014-17,9999       | <a href="#">04</a>                 |
| 022          | Cobalt                                                    | LS, LT, LTZ, SS (Base Supercharged), Sport, VL   | 2005-11,9999       | <a href="#">02,04,08,09</a>        |
| 023          | HHR                                                       | LS, 1LT, 2LT, SS, Panel                          | 2006-11,9999       | <a href="#">06</a>                 |
| 024          | Traverse (2009-2012 only. For 2013 on see model 423.)     | LS, LT, LTZ                                      | 2009-12,9999       | <a href="#">06</a>                 |
| 025          | Cruze                                                     | LS, LT, LTZ, ECO, Turbo Diesel, Limited, Premier | 2011-19,9999       | <a href="#">02, 04, 05, 08, 09</a> |
| 026          | Volt                                                      | Premier, LT                                      | 2011-19,9999       | <a href="#">05</a>                 |
| 027          | Caprice PPV                                               | --                                               | 2011-17,9999       | <a href="#">04</a>                 |
| 028          | Sonic                                                     | Base, LS, LT, LTZ, RS, Premier                   | 2012-20,9999       | <a href="#">04,05,09</a>           |
| 029          | Spark                                                     | LS, LT, EV, ACTIV                                | 2013-20,9999       | <a href="#">05</a>                 |
| 031          | Spectrum                                                  | --                                               | 1985-89,9999       | <a href="#">02-05,08,09</a>        |
| 032          | Nova/Geo Prism/Prism                                      | CL, NUMMI-built vehicles, LSi                    | 1985-2002, 9999    | <a href="#">02-05,07-09</a>        |
| 033          | Sprint/Geo Sprint                                         | (Cultus - foreign)                               | 1985-89,9999       | <a href="#">03,05,07,09</a>        |
| 034          | Geo Metro/Metro                                           | Lsi, Xfi                                         | 1989-2001, 9999    | <a href="#">01,03-05,07,09</a>     |
| 035          | Geo Storm                                                 | Gsi                                              | 1985-93,9999       | <a href="#">02,03,09</a>           |
| 036          | Monte Carlo (1995 on)                                     | FWD, LS, Z34, LS, LT, LTZ, SS, Sport Edition     | 1995-2007, 9999    | <a href="#">02</a>                 |

| <b>Codes</b> | <b>NCSA Models</b>   | <b>Includes</b>                                                                | <b>Model Years</b> | <b>NCSA Body Types</b>       |
|--------------|----------------------|--------------------------------------------------------------------------------|--------------------|------------------------------|
| 037          | Malibu/Malibu Maxx   | Base, L, LS, LT, LTZ, SS, Hybrid, ECO, Classic, Limited, Premier, RS           | 1997-2020, 9999    | <a href="#">04-06,09</a>     |
| 038          | SSR                  | Signature Series, LS, LS5, 1SS, 2SS, 3SS                                       | 2003-06,9999       | <a href="#">10</a>           |
| 039          | Aveo/Aveo 5          | Base, LS, LT, Special Value                                                    | 2004-11,9999       | <a href="#">04,05,09</a>     |
| 040          | Bolt                 | Base, LT, Premier                                                              | 2017-19, 9999      | <a href="#">05</a>           |
| 398          | Other (automobile)   | Fleetmaster, Fleetline, Styline Special, One-fifty, Bel-Air, Del Ray, Biscayne | 1930-2020, 9999    | <a href="#">01-09, 10-11</a> |
| 399          | Unknown (automobile) | --                                                                             | 1930-2020, 9999    | <a href="#">01-09, 10-11</a> |

**\*\*Nomad, Malibu, Laguna, and other similar terms may be used on all models as a reflection of trim type.**

#### **LIGHT TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b>                                        | <b>Includes</b>                                                            | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|-----------------------------------------------------------|----------------------------------------------------------------------------|--------------------|------------------------|
| 401          | S-10 Blazer/TrailBlazer (2002 only; for 2003 on, see 403) | S-10 p/u based, LS, LT, ZR2 TrailBlazer, Xtreme, ZR2, LS, LT, LTZ, EXT     | 1982-2005, 9999    | <a href="#">14</a>     |
| 402          | Geo Tracker/Tracker                                       | Lsi, LT, ZR2                                                               | 1989-2004, 9999    | <a href="#">14</a>     |
| 403          | TrailBlazer (from 2003 on; for 2002, see 401)             | LS, LT, LTZ, North Face Edition, EXT, SS (LS/LT)                           | 2003-09,9999       | <a href="#">14</a>     |
| 404          | Equinox                                                   | L, LS, LT, LTZ, Sport, Premier, Turbo (Base and Diesel)                    | 2005-20,9999       | <a href="#">14</a>     |
| 405          | Captiva                                                   | Sport, LS, LT, LTZ                                                         | 2012-15,9999       | <a href="#">14</a>     |
| 406          | Trax                                                      | LS, LT, LTZ, Premier                                                       | 2015-20,9999       | <a href="#">14</a>     |
| 407          | Blazer                                                    | L, 2.5L, 3.6L, RS, Premier                                                 | 2019-20,9999       | <a href="#">14</a>     |
| 421          | Fullsize Blazer/Tahoe                                     | K-series, fullsized p/u based, LS, LT, LTD, LTZ, 4WD, Z71, Hybrid, Premier | 1969-2020, 9999    | <a href="#">15</a>     |
| 422          | Suburban (from 2004 on; see 431 for 1950-2003)            | LS, LT, LTZ, Z71, Premier                                                  | 2004-20,9999       | <a href="#">15</a>     |
| 423          | Traverse (2013 on. For 2009-2012 see model 024.)          | L, LS, LT (Cloth, Leather), LTZ, Premier, RS, Redline Edition              | 2013-20,9999       | <a href="#">15</a>     |

| <b>Codes</b> | <b>NCSA Models</b>                             | <b>Includes</b>                                                                                                                                                                                                                                                                              | <b>Model Years</b>     | <b>NCSA Body Types</b>             |
|--------------|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------------------|
| 431          | Suburban (from 1950-2003; see 422 for 2004 on) | all models (C1500/2500, K1500/2500), LS, LT, Z71                                                                                                                                                                                                                                             | 1950-2003, 9999        | <a href="#">16</a>                 |
| 441          | Astro Van                                      | Minivan, Cargo, Passenger, LT, LS, Conversion                                                                                                                                                                                                                                                | 1985-2005, 9999        | <a href="#">20</a>                 |
| 442          | Lumina APV                                     | Minivan, MPV                                                                                                                                                                                                                                                                                 | 1990-96,9999           | <a href="#">20</a>                 |
| 443          | Venture                                        | Cargo, Passenger, Plus, LS, LT, Value, Value Plus, Extended, W. B. Edition, Entertainer                                                                                                                                                                                                      | 1997-2005, 9999        | <a href="#">20</a>                 |
| 444          | Uplander                                       | Base, LS, LT, LT(AWD), LT Entertainer                                                                                                                                                                                                                                                        | 2005-08,9999           | <a href="#">20</a>                 |
| 445          | City Express                                   | LS, LT                                                                                                                                                                                                                                                                                       | 2015-18,9999           | <a href="#">20</a>                 |
| 461          | G-series van                                   | Beauville, Chevy Van, Sport Van, G10-G30, Express, G1500/2500/3500, LT, LS                                                                                                                                                                                                                   | 1957-2019, 9999        | <a href="#">21,22,28,29</a>        |
| 466          | P-series van                                   | --                                                                                                                                                                                                                                                                                           | 1965-99, 9999          | <a href="#">22,28,29</a>           |
| 470          | Van derivative                                 | Parcel Van, Hi-cube                                                                                                                                                                                                                                                                          | 1965-2019, 9999        | <a href="#">22,28,29</a>           |
| 471          | S-10/T-10 Pickup                               | 4 x 4, Fleetside, Extended, Crew, LS, S-10, Xtreme, ZR2, ZR5, electric pickup*                                                                                                                                                                                                               | 1982-2005, 9999        | <a href="#">34, 39, 40, 42, 48</a> |
| 472          | LUV                                            | Imported pickup                                                                                                                                                                                                                                                                              | 1972-91,9999           | <a href="#">34, 39, 40, 42, 48</a> |
| 473          | Colorado                                       | Z71, Z85, Sport, LS, LT, Work, Value, Shoreline, Midnight (LT, Z71), Trail Boss, ZR2                                                                                                                                                                                                         | 2004-12, 2015-20, 9999 | <a href="#">34</a>                 |
| 481          | C, K, R, V-Series pickup/Silverado             | C10-C30, K10-K30, R10-R30, V10-V30, Silverado: 1500 (C-K, HD), 2500 (C-K, HD), 3500 (CK), ST, LS, LT, Z71, Fleetside, Sportside, CrewCab, SS, Hybrid, LTZ, WT, High Country, Rally ½, Midnight (HD, Base), Realtree, Custom Sport HD, Blackout, Special Ops, High Country, Custom Trail Boss | 1940-2020, 9999        | <a href="#">34,39, 40, 42</a>      |
| 482          | Avalanche                                      | 1500/2500 Premium, North Face Edition, Z71, Z66, LS, LT, LTZ, Black Diamond                                                                                                                                                                                                                  | 2002-13,9999           | <a href="#">34</a>                 |

| <b>Codes</b> | <b>NCSA Models</b>    | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>                                                                                                                                                                  |
|--------------|-----------------------|-----------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 498          | Other (light truck)   | --              | 1940-2020, 9999    | <a href="#">14-16,19</a> , <a href="#">20-22</a> , <a href="#">28,29</a> , <a href="#">34</a> , <a href="#">39</a> , <a href="#">40</a> , <a href="#">42</a> , <a href="#">45,48</a>    |
| 499          | Unknown (light truck) | --              | 1932-2020, 9999    | <a href="#">14-16,19</a> , <a href="#">20-22</a> , <a href="#">28,29</a> , <a href="#">34</a> , <a href="#">39</a> , <a href="#">40</a> , <a href="#">42</a> , <a href="#">45,48,49</a> |

## **MOTOR HOME**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b>        | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|--------------------|------------------------|--------------------|------------------------|
| 850          | Motor Home         | Truck-based, Van-based | 1949-2019, 9999    | <a href="#">65,73</a>  |

## **MEDIUM/HEAVY TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b>                                         | <b>Includes</b>                                                                 | <b>Model Years</b> | <b>NCSA Body Types</b>                                                                                    |
|--------------|------------------------------------------------------------|---------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------|
| 870          | Medium/Heavy Van-Based Vehicle                             | Express 3500/4500                                                               | 1957-2019, 9999    | <a href="#">55</a> , <a href="#">61-64</a>                                                                |
| 880          | Medium/Heavy Pickup (pickup-style only - over 10,000 lbs.) | --                                                                              | 1953-2020, 9999    | <a href="#">67</a>                                                                                        |
| 881          | Medium/Heavy - CBE                                         | C50/60/65; M60/65; H70/80/90; J70/80/90; Bison 90; Kodiak (C4500) all other CBE | 1955-2020, 9999    | <a href="#">60-64</a> , <a href="#">66</a> , <a href="#">71</a> , <a href="#">72</a> , <a href="#">78</a> |
| 882          | Medium/Heavy - COE low entry                               | T60/65, all other COE low entry                                                 | 1960-2020, 9999    | <a href="#">60-64</a> , <a href="#">66</a> , <a href="#">71</a> , <a href="#">72</a> , <a href="#">78</a> |
| 883          | Medium/Heavy - COE high entry                              | Titan 90, all other COE high entry                                              | 1971-80,9999       | <a href="#">60-64</a> , <a href="#">66</a> , <a href="#">71</a> , <a href="#">72</a> , <a href="#">78</a> |
| 884          | Medium/Heavy - Unknown engine location                     | --                                                                              | 1951-2020, 9999    | <a href="#">60-64</a> , <a href="#">66</a> , <a href="#">71</a> , <a href="#">72</a> , <a href="#">78</a> |
| 890          | Medium/Heavy - COE entry position unknown                  | --                                                                              | 1965-2020, 9999    | <a href="#">60-64</a> , <a href="#">66</a> , <a href="#">71</a> , <a href="#">72</a> , <a href="#">78</a> |
| 898          | Other (medium/heavy truck)                                 | --                                                                              | 1949-2019, 9999    | <a href="#">60-64</a> , <a href="#">66</a> , <a href="#">71</a> , <a href="#">72</a> , <a href="#">78</a> |

## BUSES

| Codes | NCSA Models                               | Includes    | Model Years        | NCSA Body Types               |
|-------|-------------------------------------------|-------------|--------------------|-------------------------------|
| 981   | Bus**: Conventional<br>(Engine out front) | S-60 series | 1967-2019,<br>9999 | <a href="#">50-52, 58, 59</a> |
| 988   | Other (bus)                               | --          | 1965-2019,<br>9999 | <a href="#">50-52, 58, 59</a> |
| 989   | Unknown (bus)                             | --          | 1965-2019,<br>9999 | <a href="#">50-52, 58, 59</a> |

**\*\* Use code “989” (bus) if the frontal plane or the engine location is unknown.**

## OTHER AND UNKNOWN VEHICLE

| Codes | NCSA Models         | Includes | Model Years        | NCSA Body Types            |
|-------|---------------------|----------|--------------------|----------------------------|
| 998   | Other (vehicle)     | --       | 1934-2019,<br>9999 | <a href="#">92, 93, 97</a> |
| 999   | Unknown (CHEVROLET) | --       | 1933-2020,<br>9999 | <a href="#">49, 79, 99</a> |

## NCSA MAKE: Chrysler/Daimler Chrysler (06) (CHRY)

### AUTOMOBILES

| Codes | NCSA Models                                                                              | Includes                                                                                                                                 | Model Years  | NCSA Body Types                               |
|-------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------------------------------------|
| 009   | Cordoba                                                                                  | Crown, 300, LS                                                                                                                           | 1975-83,9999 | <a href="#">02</a>                            |
| 010   | New Yorker (thru 78)/<br>Newport/5th Avenue/<br>Imperial (1979-83)<br>(excludes all FWD) | Town and Country,<br>Brougham, Custom, Royal,<br>300 (thru 1971) Frank Sinatra<br>editions (FS), Royal Limo,<br>Windsor Wagon/ Ambulance | 1946-89,9999 | <a href="#">01,02,04,06,<br/>08,09, 11,12</a> |
| 014   | New Yorker/E-Class/<br>Imperial (1990-93)/ Fifth<br>Avenue                               | FWD vehicles, Turbo, Salon                                                                                                               | 1980-93,9999 | <a href="#">02,04,08,09</a>                   |
| 015   | Laser                                                                                    | Turbo, XE, XT                                                                                                                            | 1984-86,9999 | <a href="#">03</a>                            |
| 016   | LeBaron                                                                                  | Premium, Salon (RWD),<br>Landau, LX, Town and<br>Country cars and wagon,<br>Medallion, FWD except GTS<br>or GTC Sport Coupe              | 1977-94,9999 | <a href="#">01-09</a>                         |

| <b>Codes</b> | <b>NCSA Models</b>                                               | <b>Includes</b>                                                                                                                                                                                   | <b>Model Years</b>       | <b>NCSA Body Types</b>                        |
|--------------|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------------------------------------|
| 017          | LeBaron GTS/GTC                                                  | GT, GTS-Turbo, GTC- Sport Coupe                                                                                                                                                                   | 1982-95,9999             | <a href="#">01-09</a>                         |
| 018          | 200                                                              | Limited (Base, Platinum), LX, Touring, S, Super S, C (Base, Platinum)                                                                                                                             | 2011-17,9999             | <a href="#">01,04,09</a>                      |
| 021          | SRT Viper                                                        | Standard, GTS, TA, GT3-R, GTS-R                                                                                                                                                                   | 2013-14,9999             | <a href="#">02</a>                            |
| 031          | TC (Maserati Sport)                                              | Turbo Convertible                                                                                                                                                                                 | 1988-91,9999             | <a href="#">01-03,09</a>                      |
| 035          | Conquest                                                         | TSI, Turbo                                                                                                                                                                                        | 1987-89,9999             | <a href="#">03</a>                            |
| 041          | Concorde                                                         | LX, Lxi, Limited                                                                                                                                                                                  | 1993-2004, 9999          | <a href="#">04</a>                            |
| 042          | LHS                                                              | New Yorker (1994-on)                                                                                                                                                                              | 1994-97; 1999-2001, 9999 | <a href="#">04</a>                            |
| 043          | Sebring                                                          | JX, Jxi, LX, Lxi, GTC, Tsi, Limited, Plus, Platinum, Touring, Signature Series                                                                                                                    | 1995-2011, 9999          | <a href="#">01,02,04,08,09</a>                |
| 044          | Cirrus                                                           | LX, Lxi                                                                                                                                                                                           | 1995-2000, 9999          | <a href="#">04</a>                            |
| 050          | Executive                                                        | Sedan and Limo                                                                                                                                                                                    | 1983-87,9999             | <a href="#">04,09</a> , <a href="#">11,12</a> |
| 051          | 300M/300/300C/300S                                               | Special, Platinum, Touring, Limited, SRT, Signature Series, SRT8, LX, SRT, Heritage, Great American, Walter P. Chrysler, Glacier, Executive Series, Luxury, Motown Edition, John Varvatos Edition | 1999-2019, 9999          | <a href="#">04</a>                            |
| 052          | PT Cruiser                                                       | Base, Touring, Limited, GT, Turbo, Dream Cruiser, Platinum, Series 4, Signature Series, Street Cruiser, Pacific Coast Highway, LX, Sunset Blvd.                                                   | 2001-10,9999             | <a href="#">01,06,09</a>                      |
| 053          | Prowler (for 2002) ( <a href="#">1997,1999-01 see Plymouth</a> ) | Roadster, Black Tie Edition                                                                                                                                                                       | 2002                     | <a href="#">01</a>                            |
| 054          | Pacifica (Passenger Cars)                                        | Premium, Luxury, Touring, Signature Series, LX, Hybrid                                                                                                                                            | 2004-08,9999             | <a href="#">06</a>                            |
| 055          | Crossfire                                                        | Limited, SRT6, Standard                                                                                                                                                                           | 2004-08,9999             | <a href="#">01,02,09</a>                      |

| <b>Codes</b> | <b>NCSA Models</b>   | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>                        |
|--------------|----------------------|-----------------|--------------------|-----------------------------------------------|
| 398          | Other (automobile)   | --              | 1946-2019, 9999    | <a href="#">01-09</a> , <a href="#">11,12</a> |
| 399          | Unknown (automobile) | --              | 1946-2019, 9999    | <a href="#">01-09</a> , <a href="#">11,12</a> |

## LIGHT TRUCKS

| <b>Codes</b> | <b>NCSA Models</b>                                                                        | <b>Includes</b>                                                                                                              | <b>Model Years</b> | <b>NCSA Body Types</b>                     |
|--------------|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------------------------|
| 421          | Aspen                                                                                     | Limited, Signature, Hybrid                                                                                                   | 2007-09,9999       | <a href="#">15</a>                         |
| 441          | Town and Country                                                                          | Minivan, SX, L, LX, Lxi, Ltd., SWB, LWB, AWD, FWD, eL, eX, Touring, Platinum, Signature Series, Limited, 30th Anniversary, S | 1990-2016, 9999    | <a href="#">20</a>                         |
| 442          | Voyager (2000-2003; <a href="#">1984-2000 see Plymouth.</a> For 2020 on see 06-444.)      | Base, Popular, Value, LX, eC                                                                                                 | 2000-03,9999       | <a href="#">20</a>                         |
| 443          | Pacifica (Light Trucks)                                                                   | L, LX, Touring (Base, L, L Plus, Plus) Limited, Hybrid (Touring, Touring L, Limited)                                         | 2017-19, 9999      | <a href="#">20</a>                         |
| 444          | Voyager (2020 on. For 2000-2003 see 06-442. For <a href="#">1984-2000 see Plymouth.</a> ) | L, LX                                                                                                                        | 2020               | <a href="#">20</a>                         |
| 499          | Unknown (light truck)                                                                     | --                                                                                                                           | 1990-2020, 9999    | <a href="#">15</a> , <a href="#">20,29</a> |

## UNKNOWN

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|--------------------|-----------------|--------------------|------------------------|
| 999          | Unknown (CHRYSLER) | --              | 1946-2020, 9999    | <a href="#">49</a>     |



**NCSA MAKE: Coda (26)****AUTOMOBILES**

| <b>Codes</b> | <b>NCSA Models</b>   | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>   |
|--------------|----------------------|-----------------|--------------------|--------------------------|
| 001          | Coda                 | --              | 2012-13,9999       | <a href="#">04,05,09</a> |
| 398          | Other (automobile)   | --              | 2012-13,9999       | <a href="#">04,05,09</a> |
| 399          | Unknown (automobile) | --              | 2012-13,9999       | <a href="#">04,05,09</a> |

**NCSA MAKE: Daewoo (64) (DAEW)****AUTOMOBILES**

| <b>Codes</b> | <b>NCSA Models</b>   | <b>Includes</b>  | <b>Model Years</b> | <b>NCSA Body Types</b>                |
|--------------|----------------------|------------------|--------------------|---------------------------------------|
| 031          | Lanos                | S, SE, SX, Sport | 1999-2002, 9999    | <a href="#">03,04,09</a>              |
| 032          | Nubira               | SX, CDX, SE      | 1999-2002, 9999    | <a href="#">04,06,09</a>              |
| 033          | Leganza              | SE, SX, CDX      | 1999-2002, 9999    | <a href="#">04</a>                    |
| 398          | Other (automobile)   | --               | 1999-2002, 9999    | <a href="#">03, 04, 05, 06, 07,09</a> |
| 399          | Unknown (automobile) | --               | 1999-2002, 9999    | <a href="#">03-07,09</a>              |

**NCSA MAKE: Daihatsu (60) (DAIH)****AUTOMOBILES**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>   |
|--------------|--------------------|-----------------|--------------------|--------------------------|
| 031          | Charade            | --              | 1988-94,9999       | <a href="#">03,04,09</a> |

**LIGHT TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|--------------------|-----------------|--------------------|------------------------|
| 401          | Rocky              | --              | 1990-92,9999       | <a href="#">14</a>     |

**UNKNOWN**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>                        |
|--------------|--------------------|-----------------|--------------------|-----------------------------------------------|
| 999          | Unknown (DAIHATSU) | --              | 1988-94,9999       | <a href="#">03,04,09</a> , <a href="#">14</a> |

**NCSA MAKE: Dodge (07) (DODG)****AUTOMOBILES**

| <b>Codes</b> | <b>NCSA Models</b>                                        | <b>Includes</b>                                                                 | <b>Model Years</b>       | <b>NCSA Body Types</b>            |
|--------------|-----------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------|-----------------------------------|
| 001          | Dart (1960-76 only. For 2013 on; see model 029.)          | 170, 270, Custom, GT, Swinger, Demon, 340, 360, Special, Sport, Special Edition | 1960-76,9999             | <a href="#">01,02,04,06,08,09</a> |
| 002          | Coronet/Magnum/Charger (thru 1978)                        | Brougham, Custom, Superbee, 500, Crestwood, Deluxe, XE, R/T, 440, SE, Police    | 1964-79,9999             | <a href="#">01,02,04,06,08,09</a> |
| 003          | Polara/Monaco/ Royal Monaco                               | Custom, Special, Police, Taxi, Crestwood, Brougham                              | 1964-78,9999             | <a href="#">01,02,04,06,08,09</a> |
| 004          | Viper                                                     | RT/10, GTS, ACR, SRT-10, GT, SRT                                                | 1992-2010, 2015-17, 9999 | <a href="#">01,02,09</a>          |
| 005          | Challenger (1970-74 only; see model 028 for 2008 on)      | R/T, T/A, Rallye                                                                | 1970-74,9999             | <a href="#">01,02,09</a>          |
| 006          | Aspen                                                     | Custom, Special Edition, Police, R/T, Sport                                     | 1976-80,9999             | <a href="#">02,04,06,08,09</a>    |
| 007          | Diplomat                                                  | Medallion, S, Salon, SE                                                         | 1977-89,9999             | <a href="#">02,04,06,08,09</a>    |
| 008          | Omni/Charger (1983-87; for 2006 on see vehicle model 024) | 024, DeTomaso, Miser, Charger 2.2, GLH, Custom, Shelby, GLHS, America, Expo, SE | 1978-90,9999             | <a href="#">03,05,07,09</a>       |
| 009          | Mirada                                                    | --                                                                              | 1980-83,9999             | <a href="#">02</a>                |
| 010          | St Regis                                                  | Police, Taxi                                                                    | 1979-81,9999             | <a href="#">04</a>                |
| 011          | Aries (K)                                                 | Custom, SE, LE                                                                  | 1981-89,9999             | <a href="#">02,04,06,08,09</a>    |
| 012          | 400                                                       | LS                                                                              | 1982-83,9999             | <a href="#">01,02,04,08,09</a>    |
| 013          | Rampage (car-based pickup)                                | 2.2, GT, Sport                                                                  | 1982-84,9999             | <a href="#">10</a>                |
| 014          | 600                                                       | ES, Turbo, SE                                                                   | 1983-88,9999             | <a href="#">01,02,04,08,09</a>    |

| <b>Codes</b> | <b>NCSA Models</b>                                                 | <b>Includes</b>                                                                                                                                                                                                                                                                             | <b>Model Years</b> | <b>NCSA Body Types</b>         |
|--------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------------|
| 015          | Daytona                                                            | Turbo Z, C/S Competition, Shelby Z/CSX, Pacifica, IROC R/T                                                                                                                                                                                                                                  | 1984-93,9999       | <a href="#">03</a>             |
| 016          | Lancer                                                             | Pacifica, Turbo, ES, Shelby                                                                                                                                                                                                                                                                 | 1985-89,9999       | <a href="#">02-09</a>          |
| 017          | Shadow                                                             | ES, Turbo, America                                                                                                                                                                                                                                                                          | 1987-94,9999       | <a href="#">01-03,05,07,09</a> |
| 018          | Dynasty                                                            | --                                                                                                                                                                                                                                                                                          | 1988-93,9999       | <a href="#">02,04,08,09</a>    |
| 019          | Spirit                                                             | ES, Shelby, R/T                                                                                                                                                                                                                                                                             | 1989-95,9999       | <a href="#">01,02,04,08,09</a> |
| 020          | Neon                                                               | Competition, Highline, SE, ES, ACR R/T, SRT-4, SXT                                                                                                                                                                                                                                          | 1995-2005, 9999    | <a href="#">02,04,08,09</a>    |
| 021          | Magnum                                                             | SE, SXT, R/T, SRT8                                                                                                                                                                                                                                                                          | 2005-08,9999       | <a href="#">06</a>             |
| 024          | Charger (2006 on; see model 008 for 1983-87)                       | Daytona (Base, 392), SRT8, R/T, SE, SXT (RWD/AWD), Super Bee, 3.5L, Rallye, Plus, Max, Road and Track, Blacktop, 100th Anniversary, Red Line, Road & Track, Scat Pack, SRT 392, SRT, Hellcat, Blacktop, GT, Scat Pack                                                                       | 2006-19,9999       | <a href="#">04</a>             |
| 025          | Caliber                                                            | SE, SXT, R/T, SRT4, Sport, Heat, Mainstreet, Rush, Uptown, Express                                                                                                                                                                                                                          | 2007-12,9999       | <a href="#">05</a>             |
| 026          | Avenger                                                            | SE, SXT, R/T, Heat, Express, Blacktop                                                                                                                                                                                                                                                       | 2008-15,9999       | <a href="#">04</a>             |
| 027          | Journey (For 2009-2018 only. For model years 2019 on, see 07-404.) | SE, SXT, R/T, Heat, Hero, Uptown, Express, Crew, Mainstreet, Lux, American Value Package, Blacktop, AVP, SXT Plus, Limited, Crossroad (Base, Plus), GT                                                                                                                                      | 2009-18,9999       | <a href="#">06</a>             |
| 028          | Challenger (2008 on; for 1970-74 see model 005)                    | SRT (392, Hellcat), SE, R/T (Plus, Classic, Scat Pack, Road & Track), Shaker, Plus Shaker, Plum Crazy Edition, Classic, SXT, SXT Plus, Rallye Redline, Blacktop, Shaker, 100th Anniversary, T/A (Base, Plus, 392), 392 Hemi Scat Pack Shaker, SRT (392, HellCat), GT, Demon, Hellcat Redeye | 2008-19,9999       | <a href="#">02</a>             |

| <b>Codes</b> | <b>NCSA Models</b>                                       | <b>Includes</b>                                                          | <b>Model Years</b> | <b>NCSA Body Types</b>       |
|--------------|----------------------------------------------------------|--------------------------------------------------------------------------|--------------------|------------------------------|
| 029          | Dart (2013 on. See model 001 for 1960-1976 model years.) | Limited, Rallye, SE, SXT, Special Edition, Mopar '13, Aero, GT, Blacktop | 2013-16,9999       | <a href="#">04</a>           |
| 033          | Challenger                                               | all import                                                               | 1978-83,9999       | <a href="#">02</a>           |
| 034          | Colt (includes 2WD Vista)                                | GT, Custom, Carousel, Premier, Deluxe, E, DL, GTS, Turbo, RS             | 1974-94,9999       | <a href="#">02-09</a>        |
| 035          | Conquest                                                 | Turbo                                                                    | 1984-89,9999       | <a href="#">03</a>           |
| 039          | Stealth                                                  | RT, ES                                                                   | 1991-96,9999       | <a href="#">02,03,09</a>     |
| 040          | Monaco                                                   | --                                                                       | 1990-92,9999       | <a href="#">02,04,08,09</a>  |
| 041          | Intrepid                                                 | ES, R/T, S, SE, SXT                                                      | 1993-2004, 9999    | <a href="#">04</a>           |
| 042          | Avenger (see model 026 for 2008 on)                      | ES                                                                       | 1995-2000, 9999    | <a href="#">02</a>           |
| 043          | Stratus                                                  | ES, SE, R/T, Plus, SXT                                                   | 1995-2007, 9999    | <a href="#">02,04,08,09</a>  |
| 398          | Other (automobile)                                       | --                                                                       | 1946-2019, 9999    | <a href="#">01-09, 10,12</a> |
| 399          | Unknown (automobile)                                     | --                                                                       | 1946-2019, 9999    | <a href="#">01-09, 10,12</a> |

## **LIGHT TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b>                                            | <b>Includes</b>                           | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|---------------------------------------------------------------|-------------------------------------------|--------------------|------------------------|
| 401          | RaiderSport                                                   | Sport                                     | 1986-94,9999       | <a href="#">14</a>     |
| 402          | Durango (1998-2003 only; see model 422 for 2004 on)           | Sport, R/T, SLT, SXT, Plus, Blacktop      | 1998-2003, 9999    | <a href="#">14</a>     |
| 403          | Nitro                                                         | SLT, SXT, R/T, SE, Heat, Detonator, Shock | 2007-11,9999       | <a href="#">14</a>     |
| 404          | Journey (For 2019 on. For model years 2009-2018, see 07-027.) | SE, SXT, GT, Crossroads                   | 2019               | <a href="#">14</a>     |
| 421          | Ramcharger                                                    | --                                        | 1974-93,9999       | <a href="#">15</a>     |

| <b>Codes</b> | <b>NCSA Models</b>                              | <b>Includes</b>                                                                                                                                                                                                                                            | <b>Model Years</b> | <b>NCSA Body Types</b>                                                                  |
|--------------|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------------------------------------|
| 422          | Durango (2004 on; see 402 for 1998-2003 models) | ST, SLT, Limited, SXT (Base, Plus), Adventurer, Hybrid, Express, Crew, LUX, Citadel (Base, Anodized Platinum), R/T, Blacktop, Plus, Rallye, GT (Base, Plus)                                                                                                | 2004-20,9999       | <a href="#">15</a>                                                                      |
| 441          | Vista Van                                       | 4x4 (Only)                                                                                                                                                                                                                                                 | 1984-91,9999       | <a href="#">20</a>                                                                      |
| 442          | Caravan/Grand Caravan                           | Mini Ram Van, 112 & 19 WB, SE, ES, LE, Sport, EX, eC, eL, AWD, Sport, EPIC-elec* SXT, C/V, Special Edition, Cargo, Hero, American Value Package, R/T, Crew, Blacktop, AVP, 30th Anniversary, SE Plus, SXT Plus                                             | 1984-2019, 9999    | <a href="#">20</a>                                                                      |
| 443          | Ram C/V                                         | Tradesman                                                                                                                                                                                                                                                  | 2013-17, 9999      | <a href="#">20</a>                                                                      |
| 444          | Promaster City                                  | Cargo, Passenger, Tradesman (Base, SLT), Wagon (Base, SLT)                                                                                                                                                                                                 | 2015-19, 9999      | <a href="#">20</a>                                                                      |
| 461          | B-Series Van/Ram Van/Ram Wagon                  | Sportsman, Royal, Maxiwagon, Ram, B1500-B3500, Tradesman, Ram Maxivan (1500, 2500, 3500), Ram Wagon (1500, 2500, 3500) Conversion, Cargo Van (1500: van, non-maxi van, maxi van; 2500: non-maxi, maxi van; 3500: non-maxi), Dodge Wagon (1500, 2500, 3500) | 1963-2003, 9999    | <a href="#">21,28</a> , <a href="#">40,41</a> , <a href="#">42</a> , <a href="#">48</a> |
| 462          | Sprinter                                        | Cargo, Passenger                                                                                                                                                                                                                                           | 2003-09,9999       | <a href="#">21,28</a>                                                                   |
| 463          | Ram Promaster                                   | Cargo, Chassis, Cutaway, 1500 (Low Roof, High Roof), 2500 (Low Roof, High Roof), 3500 (Low Roof, High Roof)                                                                                                                                                | 2014-19,9999       | <a href="#">21,28</a>                                                                   |
| 470          | Van Derivative                                  | Kary Van, Parcel Van                                                                                                                                                                                                                                       | 1971-2019, 9999    | <a href="#">28,29</a>                                                                   |
| 471          | D50, Colt pickup, Ram 50/Ram 100                | --                                                                                                                                                                                                                                                         | 1979-93,9999       | <a href="#">34</a> , <a href="#">39</a>                                                 |

| <b>Codes</b> | <b>NCSA Models</b>    | <b>Includes</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Model Years</b> | <b>NCSA Body Types</b>                                                                                                                                                                                                                              |
|--------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 472          | Dakota                | R/T, Limited Edition, Quad Cab, Club Cab, Plus, SLT, ST, SXT, Sport, Laramie, TRX, SE, Big Horn, Lone Star, TRX4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1987-2012, 9999    | <a href="#">33</a> , <a href="#">34</a> , <a href="#">39</a> , <a href="#">40</a>                                                                                                                                                                   |
| 481          | D, W-Series pickup    | Custom, Royal, Ram, Miser, D100-D350, W100-W350                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1955-93,9999       | <a href="#">34</a> , <a href="#">39</a> , <a href="#">40</a> , <a href="#">42</a>                                                                                                                                                                   |
| 482          | Ram Pickup            | 1500 (Limited, Longhorn, Rebel, Laramie, Sport, Big Horn, SLT, Express, ST, Black, Tradesman, EcoDiesel, Outdoorsman, Stinger Yellow, Night, Eco Diesel) 2500 (Limited, Laramie, Longhorn, Power Wagon, Big Horn, ST, SLT, Outdoorsman, Tradesman), 3500 (Limited, Laramie, Longhorn, Power Wagon, Big Horn, ST, SLT, Outdoorsman, Tradesman), Quad Cab, SLT, SLT+, ST, SRT-10, Laramie, Bumble Bee, Power Wagon, Daytona, TRX Off-Road, Sport, Black Ram, Red Wings Edition, Lone Star, Limited Tungsten, Hydro Blue, Harvest, Sublime Green, Kentucky Derby Edition, South Fork Edition, Ignition Orange Edition, Mojave Sand Edition, Warlock Edition | 1994-2020, 9999    | <a href="#">34</a> , <a href="#">39</a> , <a href="#">40</a> , <a href="#">42</a>                                                                                                                                                                   |
| 498          | Other (light truck)   | --                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1979-2020, 9999    | <a href="#">14,15,19</a> , <a href="#">20-22</a> , <a href="#">28,29</a> , <a href="#">33</a> , <a href="#">34</a> , <a href="#">39</a> , <a href="#">40</a> , <a href="#">41</a> , <a href="#">42</a> , <a href="#">45</a> , <a href="#">48</a>    |
| 499          | Unknown (light truck) | --                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1949-2020, 9999    | <a href="#">14,15,19</a> , <a href="#">20-22</a> , <a href="#">28,29</a> , <a href="#">33</a> , <a href="#">34</a> , <a href="#">39</a> , <a href="#">40</a> , <a href="#">41</a> , <a href="#">42</a> , <a href="#">45</a> , <a href="#">48,49</a> |

## MOTOR HOME

| Codes | NCSA Models | Includes               | Model Years     | NCSA Body Types       |
|-------|-------------|------------------------|-----------------|-----------------------|
| 850   | Motor Home  | Truck-based, Van-based | 1952-2019, 9999 | <a href="#">65,73</a> |

## MEDIUM/HEAVY TRUCKS

| Codes | NCSA Models                                                | Includes            | Model Years             | NCSA Body Types                            |
|-------|------------------------------------------------------------|---------------------|-------------------------|--------------------------------------------|
| 870   | Medium/Heavy Van-Based Vehicle                             | Sprinter, Promaster | 1971-2009, 2014-19,9999 | <a href="#">55</a> , <a href="#">61-64</a> |
| 880   | Medium/Heavy Pickup (pickup-style only - over 10,000 lbs.) | --                  | 1953-2019, 9999         | <a href="#">67</a>                         |
| 881   | Medium/Heavy - CBE                                         | --                  | 1966-2019, 9999         | <a href="#">60-64,66,71,72,78</a>          |
| 882   | Medium/Heavy - COE low entry                               | --                  | 1967-77,9999            | <a href="#">60-64,66,71,72,78</a>          |
| 883   | Medium/Heavy - COE high entry                              | --                  | 1967-77,9999            | <a href="#">60-64,66,71,72,78</a>          |
| 884   | Medium/Heavy - Unknown engine Location                     | --                  | 1962-2019, 9999         | <a href="#">60-64,66,71,72,78</a>          |
| 890   | Medium/Heavy - COE entry position unknown                  | --                  | 1965-77,9999            | <a href="#">60-64,66,71,72,78</a>          |
| 898   | Other (medium/heavy truck)                                 | --                  | 1930-2019, 9999         | <a href="#">60-64,66,71,72,78</a>          |

## BUSES

| Codes | NCSA Models                           | Includes        | Model Years  | NCSA Body Types                                                 |
|-------|---------------------------------------|-----------------|--------------|-----------------------------------------------------------------|
| 981   | Bus*: Conventional (Engine out front) | (not van based) | 1966-77,9999 | <a href="#">50-52</a> , <a href="#">58</a> , <a href="#">59</a> |
| 988   | Other (bus)                           | --              | 1965-77,9999 | <a href="#">50-52</a> , <a href="#">58</a> , <a href="#">59</a> |
| 989   | Unknown (bus)                         | --              | 1965-77,9999 | <a href="#">50-52</a> , <a href="#">58</a> , <a href="#">59</a> |

**\*\*Use code “989” (bus) if the frontal plane or the engine location is unknown.**

**OTHER AND UNKNOWN VEHICLE**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>     |
|--------------|--------------------|-----------------|--------------------|----------------------------|
| 998          | Other (vehicle)    | --              | 1965-2019, 9999    | <a href="#">92,93,97</a>   |
| 999          | Unknown (DODGE)    | --              | 1952-2020, 9999    | <a href="#">49, 79, 99</a> |

**NCSA MAKE: Eagle\* (10) (EGIL)****AUTOMOBILES**

| <b>Codes</b> | <b>NCSA Models</b>      | <b>Includes</b>               | <b>Model Years</b> | <b>NCSA Body Types</b>         |
|--------------|-------------------------|-------------------------------|--------------------|--------------------------------|
| 034          | Summit (excludes wagon) | DL, LX, ES, ESi               | 1989-96,9999       | <a href="#">02-04,08,09</a>    |
| 037          | Talon                   | FWD, Tsi, Tsi-FWD, Esi        | 1990-98,9999       | <a href="#">02,03,09</a>       |
| 040          | Premier                 | LX, ES, ES Limited            | 1988-92,9999       | <a href="#">02,04,08,09</a>    |
| 041          | Vision                  | Esi, Tsi                      | 1993-97,9999       | <a href="#">04</a>             |
| 044          | Medallion               | DL, LX                        | 1988-89,9999       | <a href="#">04,06,09</a>       |
| 045          | Summit Wagon            | FWD, AWD, DX, LX (Mitsubishi) | 1992-96,9999       | <a href="#">06</a>             |
| 398          | Other (automobile)      | --                            | 1988-98,9999       | <a href="#">02-04,06,08,09</a> |
| 399          | Unknown (automobile)    | --                            | 1988-98,9999       | <a href="#">02-04,06,08,09</a> |

**\*Note:** Eagle model listed under [American Motors](#).

**NCSA MAKE: Fiat (36) (FIAT)****AUTOMOBILES**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b>  | <b>Model Years</b> | <b>NCSA Body Types</b>            |
|--------------|--------------------|------------------|--------------------|-----------------------------------|
| 031          | 124 (Coupe/Sedan)  | Sport            | 1967-75,9999       | <a href="#">01,02,04,06,08,09</a> |
| 032          | 124 Spider/Racer   | Spider 2000/1500 | 1968-83,9999       | <a href="#">01,02,09</a>          |
| 033          | Brava/131          | --               | 1975-82,9999       | <a href="#">02,04,06,08,09</a>    |
| 034          | 850 (Coupe/Spider) | --               | 1967-73,9999       | <a href="#">01,02,09</a>          |
| 035          | 128                | --               | 1972-79,9999       | <a href="#">01,02,04,06,08,09</a> |



| <b>Codes</b> | <b>NCSA Models</b>   | <b>Includes</b>                                                                                | <b>Model Years</b>     | <b>NCSA Body Types</b>      |
|--------------|----------------------|------------------------------------------------------------------------------------------------|------------------------|-----------------------------|
| 036          | X-1/9                | --                                                                                             | 1975-83,9999           | <a href="#">01,02,09</a>    |
| 037          | Strada               | --                                                                                             | 1979-83,9999           | <a href="#">03,05,07,09</a> |
| 038          | 500/500c             | Abarth, Pop, Sport, Lounge, e, Cabrio, Turbo, Cattiva, Gucci, eSport, GQ Edition, 1957 Edition | 2012-19,9999           | <a href="#">02,03,09</a>    |
| 039          | 124 Spider           | Classica, Abarth, Lusso                                                                        | 2017-19, 9999          | <a href="#">01</a>          |
| 398          | Other (automobile)   | 600, 1100                                                                                      | 1967-83, 2011-19,9999  | <a href="#">01-09</a>       |
| 399          | Unknown (automobile) | --                                                                                             | 1967-83, 2011-19, 9999 | <a href="#">01-09</a>       |

#### **LIGHT TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b>    | <b>Includes</b>                            | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|-----------------------|--------------------------------------------|--------------------|------------------------|
| 401          | 500L                  | Pop, Easy, Trekking, Lounge, Urbana        | 2014-19,9999       | <a href="#">14</a>     |
| 402          | 500X                  | Pop, Easy, Trekking, Lounge, Trekking Plus | 2016-19,9999       | <a href="#">14</a>     |
| 499          | Unknown (light truck) | --                                         | 2014-19,9999       | <a href="#">14, 19</a> |

#### **MEDIUM/HEAVY TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b>                        | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>                |
|--------------|-------------------------------------------|-----------------|--------------------|---------------------------------------|
| 882          | Medium/Heavy - COE low entry              | --              | 1967-83,9999       | <a href="#">60-64, 66, 71, 72, 78</a> |
| 883          | Medium/Heavy - COE high entry             | --              | 1967-83,9999       | <a href="#">60-64, 66, 71, 72, 78</a> |
| 890          | Medium/Heavy - COE entry position unknown | --              | 1967-83,9999       | <a href="#">60-64, 66, 71, 72, 78</a> |
| 898          | Other (medium/heavy truck)                | --              | 1967-83,9999       | <a href="#">60-64, 66, 71, 72, 78</a> |

**OTHER AND UNKNOWN VEHICLE**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b>     | <b>NCSA Body Types</b>   |
|--------------|--------------------|-----------------|------------------------|--------------------------|
| 998          | Other (vehicle)    | --              | 1967-83,9999           | <a href="#">92,93,97</a> |
| 999          | Unknown (FIAT)     | --              | 1967-83; 2011-19, 9999 | <a href="#">99</a>       |

**NCSA MAKE: Ford (12) (FORD)****AUTOMOBILES**

| <b>Codes</b> | <b>NCSA Models</b>            | <b>Includes</b>                                                                                                                                                                                                               | <b>Model Years</b>    | <b>NCSA Body Types</b>            |
|--------------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------------------|
| 001          | Falcon                        | FuturaSprint, GT, Futura                                                                                                                                                                                                      | 1960-70,9999          | <a href="#">02,04,06,08,09</a>    |
| 002          | Fairlane                      | Torino (1968-70), 500, Brougham                                                                                                                                                                                               | 1955-70,9999          | <a href="#">01,02,04,06,08,09</a> |
| 003          | Mustang/Mustang II            | Mach(I), Boss (302), Grande, Cobra (SVT), Ghia, SVO, GT (Premium, Base, Cal Spec. Pkg.), LX, Shelby (GT350, GT350R, GT500, GT500KR), Deluxe, Premium, Bullitt, V6 (Base, Premium, Pony), Fastback (V6, GT, Premium, Ecoboost) | 1964-2020, 9999       | <a href="#">01-03,09</a>          |
| 004          | Thunderbird (all sizes)       | Landau, Heritage, Turbo coupe, Elan, Fila, Sport, LX, SC, Deluxe, Premium, Pacific Coast Edition, 50th Anniversary Edition                                                                                                    | 1955-98; 2002-05,9999 | <a href="#">01,02,04,08,09</a>    |
| 005          | LTD II                        | S, Squire, Brougham                                                                                                                                                                                                           | 1977-79,9999          | <a href="#">02,04,06,08,09</a>    |
| 006          | LTD/Custom/Galaxy (all sizes) | XL, Landau, Ranch Wagon, Country Squire, S, 500, Brougham, XL, GT                                                                                                                                                             | 1963-86,9999          | <a href="#">01,02,04,06,08,09</a> |
| 007          | Ranchero                      | Falcon/Fairlane based<br>Torino/LTD II based                                                                                                                                                                                  | 1960-79,9999          | <a href="#">10</a>                |
| 008          | Maverick                      | Grabber                                                                                                                                                                                                                       | 1969-78,9999          | <a href="#">02,04,08,09</a>       |
| 009          | Pinto                         | Pony, MPG, ESS                                                                                                                                                                                                                | 1971-80,9999          | <a href="#">02,03,06,09</a>       |
| 010          | Torino/Gran Torino/Elite      | GT, Cobra, Sport, Squire, Brougham                                                                                                                                                                                            | 1971-76,9999          | <a href="#">01,02,04,06,08,09</a> |
| 011          | Granada                       | ESS, Ghia                                                                                                                                                                                                                     | 1975-82,9999          | <a href="#">02,04,06,08,09</a>    |

| <b>Codes</b> | <b>NCSA Models</b>                                                          | <b>Includes</b>                                                                                                                                        | <b>Model Years</b>     | <b>NCSA Body Types</b>          |
|--------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------------------|
| 012          | Fairmont                                                                    | Futura, Sport Coupe                                                                                                                                    | 1978-83,9999           | <a href="#">02,04,06,08,09</a>  |
| 013          | Escort/EXP/ZX2                                                              | L, GL, GLX, SS, GT, LX, LXE, SE, ZX2, Deluxe, Premium, Standard                                                                                        | 1981-2003, 9999        | <a href="#">02-09</a>           |
| 015          | Tempo                                                                       | L, GL, GLX, Sport, 4X4                                                                                                                                 | 1984-94,9999           | <a href="#">02,04,08,09</a>     |
| 016          | Crown Victoria (For 2011 on, code as vehicle model 398)                     | LX, LTD Crown Victoria, LX Sport                                                                                                                       | 1981-2011, 9999        | <a href="#">02,04,06,08,09</a>  |
| 017          | Taurus/Taurus X                                                             | MT-5, L, GL, LX, SHO, G, SE, SVG, SES, SEL, Limited, Eddie Bauer, Police Interceptor                                                                   | 1986-2019, 9999        | <a href="#">04,06,09</a>        |
| 018          | Probe                                                                       | GL, LX, GT                                                                                                                                             | 1988-97,9999           | <a href="#">03</a>              |
| 021          | Five Hundred                                                                | SE, SEL, Limited                                                                                                                                       | 2005-07,9999           | <a href="#">04</a>              |
| 022          | Freestyle                                                                   | SE, SEL, Limited                                                                                                                                       | 2005-07,9999           | <a href="#">06</a>              |
| 023          | Fusion                                                                      | I4 S/SE/SEL, V6 SE/SEL, S, SE, Sport, Hybrid (S, SE, Platinum, Titanium), Titanium (Hybrid, Energi) Energi (SE, Platinum, Titanium), Platinum, Plug-In | 2006-20,9999           | <a href="#">04</a>              |
| 024          | Edge (For model years 2007-2018 only. For model years 2019 on, see 12-424.) | SE, SEL, SEL Plus, Limited, Sport, Titanium, ST                                                                                                        | 2007-18,9999           | <a href="#">06</a>              |
| 025          | Flex                                                                        | SE, SEL, Limited, Titanium                                                                                                                             | 2009-19,9999           | <a href="#">06</a>              |
| 026          | City                                                                        | --                                                                                                                                                     | 2000-02, 9999          | <a href="#">02,04,08,09, 94</a> |
| 027          | C-Max                                                                       | Hybrid (SE, Titanium), Energi, SE, SEL                                                                                                                 | 2013-18,9999           | <a href="#">05</a>              |
| 031          | English Ford                                                                | Cortina, Anglia, Zephyr/ Zodiac Mark III                                                                                                               | 1946-70,9999           | <a href="#">02,04,06,08,09</a>  |
| 032          | Fiesta                                                                      | Sport, Ghia, S, SE, SES, SEL, Titanium, ST                                                                                                             | 1978-80, 2011-19, 9999 | <a href="#">03-05,09</a>        |
| 033          | Festiva                                                                     | L, GL                                                                                                                                                  | 1988-93,9999           | <a href="#">03</a>              |
| 034          | Laser                                                                       | --                                                                                                                                                     | 1993-94,9999           | <a href="#">02,03,09</a>        |
| 035          | Contour                                                                     | Sport, LX, SE, SVT                                                                                                                                     | 1994-2001, 9999        | <a href="#">04</a>              |
| 036          | Aspire                                                                      | --                                                                                                                                                     | 1994-97,9999           | <a href="#">03,05,07,09</a>     |

| <b>Codes</b> | <b>NCSA Models</b>   | <b>Includes</b>                                                                           | <b>Model Years</b>     | <b>NCSA Body Types</b>           |
|--------------|----------------------|-------------------------------------------------------------------------------------------|------------------------|----------------------------------|
| 037          | Focus                | ZX3, LX, SE, ZTS, SVT, ZX4, ZX4 ST, ZX5, ZXW, S, SES, SEL, SE, Titanium, Electric, ST, RS | 2000-18,9999           | <a href="#">02-06,08,09</a>      |
| 038          | GT                   | --                                                                                        | 2004-08, 2018-19, 9999 | <a href="#">01,02,09</a>         |
| 398          | Other (automobile)   | Deluxe, Ford Six, Mainline, Crestline, Futura, Galaxie, Model A                           | 1923-2020, 9999        | <a href="#">01-09, 10,11, 94</a> |
| 399          | Unknown (automobile) | --                                                                                        | 1923-2020, 9999        | <a href="#">01-09, 10,11, 94</a> |

## **LIGHT TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b>                                                                                                         | <b>Includes</b>                                                                                                                                                                  | <b>Model Years</b>       | <b>NCSA Body Types</b> |
|--------------|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------------|
| 401          | Bronco (thru 1977)/ Bronco II/Explorer/ Explorer Sport (Explorer for 1990-2018 only. For model years 2019 on, see 12-425.) | Eddie Bauer, XL, XLT, Explorer (1990 on) XLS, Explorer Sport (Value, Choice Premium), NBX, Adrenalin, Ironman, Police Interceptor, Base, Limited, Platinum                       | 1966-77; 1983-2018, 9999 | <a href="#">14</a>     |
| 402          | Escape                                                                                                                     | XLS (Value, Sport, V6 Choice/Premium), XLT (Choice, Premium, Sport), Hybrid (Base, Limited), No Boundaries, Limited, S, SE, SEL, Titanium                                        | 2001-20,9999             | <a href="#">14</a>     |
| 403          | EcoSport                                                                                                                   | S, SE, SES (Black Appearance Package), Titanium                                                                                                                                  | 2018-20,9999             | <a href="#">14</a>     |
| 421          | Bronco-full-size (1978-on)                                                                                                 | Eddie Bauer, Custom, XL, XLT                                                                                                                                                     | 1978-96,9999             | <a href="#">15</a>     |
| 422          | Expedition                                                                                                                 | EL, XLS, XLT (4x4,4x2), Eddie Bauer (4x4,4x2), NBX, Sport, NBX, Limited, King Ranch, Funk Master Flex Edition, XL, Platinum, XLT MAX, Limited MAX, Platinum MAX, Special Edition | 1996-2020, 9999          | <a href="#">15</a>     |

| <b>Codes</b> | <b>NCSA Models</b>                                            | <b>Includes</b>                                                                                                                                                                  | <b>Model Years</b>    | <b>NCSA Body Types</b>        |
|--------------|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------|
| 423          | Excursion                                                     | XLT, Limited (LTD), Ultimate, Premium, XLS, Eddie Bauer                                                                                                                          | 2000-05,9999          | <a href="#">16</a>            |
| 424          | Edge (For 2019 on. For model years 2007-2018, see 12-024.)    | E, SEL, ST, Titanium                                                                                                                                                             | 2019-20, 9999         | <a href="#">15</a>            |
| 425          | Explorer (For 2019 on. For model years 1990-2018 see 12-401.) | XLT, Limited, Sport, Platinum                                                                                                                                                    | 2019-20, 9999         | <a href="#">15</a>            |
| 441          | Aerostar                                                      | XLT, Cargo Van                                                                                                                                                                   | 1985-97, 9999         | <a href="#">20</a>            |
| 442          | Windstar                                                      | GL, LX, XLT, Splash, Cargo Limited, SE, SEL                                                                                                                                      | 1995-2003, 9999       | <a href="#">20</a>            |
| 443          | Freestar                                                      | Base, LX, SE, S, SEL, SES, Limited                                                                                                                                               | 2004-07, 9999         | <a href="#">20</a>            |
| 444          | Transit Connect                                               | XL, (Van, Wagon), XLT (Van, Wagon), Premium, EV, Titanium                                                                                                                        | 2010-20, 9999         | <a href="#">20</a>            |
| 461          | E-Series Van/Econoline                                        | Clubwagon (XL, XLT), Chateau, (XL, XLT), Parcel Van, Econoline Wagon E-150 (XL/ XLT/ Premium); E-350 XL/XLT/ Extended), E-250 (EXT)                                              | 1960-2019, 9999       | <a href="#">21,22,28,29</a>   |
| 462          | Transit                                                       | Van, Wagon (XL, XLT)                                                                                                                                                             | 2014-19, 9999         | <a href="#">21, 28, 29</a>    |
| 470          | Van Derivative                                                | --                                                                                                                                                                               | 1960-2019, 9999       | <a href="#">28, 29</a>        |
| 471          | Ranger                                                        | Supercab, 4x4, STX, SL, SLT, Splash, XL (Standard/ Super Cab), XLT, Tremor (Standard/Super Cab/Off-Road/FX4), Edge (Regular/ Super Cab), EV* (electric), Level II, Sport, Lariat | 1982-2012, 2019, 9999 | <a href="#">34,39, 40, 42</a> |
| 472          | Courier                                                       | --                                                                                                                                                                               | 1972-82, 9999         | <a href="#">34, 42</a>        |
| 473          | Explorer Sport Trac                                           | 2WD/4WD, Value, Choice, Premium, XLS, XLT, Adrenalin, Limited                                                                                                                    | 2001-11, 9999         | <a href="#">34</a>            |

| <b>Codes</b> | <b>NCSA Models</b>    | <b>Includes</b>                                                                                                                                                                                                                                                                                                                                                     | <b>Model Years</b> | <b>NCSA Body Types</b>                                                                                                                                                                     |
|--------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 481          | F-Series pickup       | F100, F150-F350, (XL, XLT, Crew Cab, Super Cab, Regular Cab, Lariat, Super Duty, Flareside, Styleside, SVT Lightning, Fireside, Harley-Davidson Edition, King Ranch, SuperCrew, STX, Heritage Edition, Sport Edition, FX4, FX2), F450 (10,000 GVWR and under) (see model 880 for F450 >10,000 GVWR), Amarillo Package, Platinum, Cabala's, STX, SVT Raptor, Limited | 1940-2020, 9999    | <a href="#">34,39</a> , <a href="#">40</a> , <a href="#">42</a>                                                                                                                            |
| 498          | Other (light truck)   | --                                                                                                                                                                                                                                                                                                                                                                  | 1972-2020, 9999    | <a href="#">14-16, 19</a> , <a href="#">20,21,28</a> , <a href="#">29</a> , <a href="#">34,39</a> , <a href="#">40,41</a> , <a href="#">42</a> , <a href="#">45,48</a>                     |
| 499          | Unknown (light truck) | --                                                                                                                                                                                                                                                                                                                                                                  | 1928-2020, 9999    | <a href="#">14-16,19</a> , <a href="#">20-22</a> , <a href="#">28,29</a> , <a href="#">34,39</a> , <a href="#">40,41</a> , <a href="#">42</a> , <a href="#">45,48</a> , <a href="#">49</a> |

#### **MOTOR HOME**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b>                          | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|--------------------|------------------------------------------|--------------------|------------------------|
| 850          | Motor Home         | Truck-based, F-550, Van-Based (E Series) | 1956-2019, 9999    | <a href="#">65,73</a>  |

#### **MEDIUM/HEAVY TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b>                                         | <b>Includes</b>                                             | <b>Model Years</b> | <b>NCSA Body Types</b>                     |
|--------------|------------------------------------------------------------|-------------------------------------------------------------|--------------------|--------------------------------------------|
| 870          | Medium/Heavy Van-Based Vehicle                             | Econoline E350, E450, Transit                               | 1956-2019, 9999    | <a href="#">55</a> , <a href="#">61-64</a> |
| 880          | Medium/Heavy Pickup (pickup-style only - over 10,000 lbs.) | Super Duty F250, 350, F450/550, Lariat, XL, XLT, King Ranch | 1953-2020, 9999    | <a href="#">67</a>                         |

| <b>Codes</b> | <b>NCSA Models</b>                        | <b>Includes</b>                                                                                                 | <b>Model Years</b> | <b>NCSA Body Types</b>                |
|--------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------------|
| 881          | Medium/Heavy - CBE                        | F-5 thru F-8, L-series, FT-series, Super Duty F-Series: 350/450/550/650/750/800 (does not include pickup style) | 1953-2020, 9999    | <a href="#">60-64, 66, 71, 72, 78</a> |
| 882          | Medium/Heavy - COE low entry              | C/CT series, LCF                                                                                                | 1964-2009, 9999    | <a href="#">60-64, 66, 71, 72, 78</a> |
| 883          | Medium/Heavy - COE high entry             | CL/CLT series, LCF                                                                                              | 1967-1996, 9999    | <a href="#">60-64, 66, 71, 72, 78</a> |
| 884          | Medium/Heavy - Unknown engine location    | --                                                                                                              | 1956-2019, 9999    | <a href="#">60-64, 66, 71, 72, 78</a> |
| 890          | Medium/Heavy - COE entry position unknown | --                                                                                                              | 1956-2019, 9999    | <a href="#">60-64, 66, 71, 72, 78</a> |
| 898          | Other (medium/heavy truck)                | --                                                                                                              | 1965-2020, 9999    | <a href="#">60-64, 66, 71, 72, 78</a> |

## **BUSES**

| <b>Codes</b> | <b>NCSA Models</b>                     | <b>Includes</b>                    | <b>Model Years</b> | <b>NCSA Body Types</b>         |
|--------------|----------------------------------------|------------------------------------|--------------------|--------------------------------|
| 981          | Bus**: Conventional (Engine out front) | B-series (not van based), F-Series | 1964-2019, 9999    | <a href="#">50, 52, 58, 59</a> |
| 988          | Other (bus)                            | --                                 | 1940-2019, 9999    | <a href="#">50, 52, 58, 59</a> |
| 989          | Unknown (bus)                          | --                                 | 1940-2019, 9999    | <a href="#">50, 52, 58, 59</a> |

**\*\* Use code “989” (bus) if the frontal plane or the engine location is unknown.**

## **OTHER AND UNKNOWN VEHICLE**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>     |
|--------------|--------------------|-----------------|--------------------|----------------------------|
| 998          | Other (vehicle)    | --              | 1940-2019, 9999    | <a href="#">92,93,97</a>   |
| 999          | Unknown (FORD)     | --              | 1923-2020, 9999    | <a href="#">49, 79, 99</a> |

## NCSA MAKE: GMC (23) (GMC)

### AUTOMOBILES

| Codes | NCSA Models                                         | Includes             | Model Years     | NCSA Body Types                         |
|-------|-----------------------------------------------------|----------------------|-----------------|-----------------------------------------|
| 007   | Caballero                                           | --                   | 1965-87,9999    | <a href="#">10</a>                      |
| 008   | Acadia (2007-2012 only. For 2013 on see model 423.) | SLE, SLT, Denali, SL | 2007-12,9999    | <a href="#">06</a>                      |
| 399   | Unknown (automobile)                                | --                   | 1965-2012, 9999 | <a href="#">06</a> , <a href="#">10</a> |

### LIGHT TRUCKS

| Codes | NCSA Models                                             | Includes                                                                                                                                                                                   | Model Years     | NCSA Body Types    |
|-------|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------|
| 401   | Jimmy/Typhoon/Envoy                                     | S-15 based, (100.5 WB), T15, SLE, SL, SLS, SLT, XL, XUV, Denali                                                                                                                            | 1983-2009, 9999 | <a href="#">14</a> |
| 402   | Terrain                                                 | SL, SLE, SLT, Denali, Diesel (SLE, SLT), Black Edition                                                                                                                                     | 2010-19, 9999   | <a href="#">14</a> |
| 421   | Full-size Jimmy/Yukon                                   | Fullsize pickup based, K5, K18, SL, SLE, SLT, SLS, Diamond Edition, Yukon Denali, Denali (Ultimate, Ultimate Black Edition), Hybrid, Premium Edition, Graphite Edition (Base, Performance) | 1969-2019, 9999 | <a href="#">15</a> |
| 422   | Suburban/Yukon XL (2004 on; see 431 for 1950- 2003)     | Yukon XL (Denali -1500-2500), SLE, SLT, Hybrid                                                                                                                                             | 2004-19,9999    | <a href="#">15</a> |
| 423   | Acadia (2013 on. For 2007-2012 see model 008.)          | FWD/AWD, Denali, SL, SLE, SLT, All Terrain                                                                                                                                                 | 2013-20,9999    | <a href="#">15</a> |
| 431   | Suburban/Yukon XL (1950-2003 only; see 422 for 2004 on) | all models, SLE, C16, C26, K16, K26, C1500-2500, K1500-2500, Yukon XL (Denali -1500-2500)                                                                                                  | 1950-2003, 9999 | <a href="#">16</a> |
| 441   | Safari (Minivan)                                        | SLT, SLX, SLE, M15, L15, SL                                                                                                                                                                | 1985-2005, 9999 | <a href="#">20</a> |



| <b>Codes</b> | <b>NCSA Models</b>              | <b>Includes</b>                                                                                                                                                                                                          | <b>Model Years</b> | <b>NCSA Body Types</b>                                          |
|--------------|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------------|
| 461          | G-series van/Savana             | Rally Van, Bandura, G15-G35, Savana (G1500-3500) SLT, Extended, SLE, LS, LT, Uplifter, WT, Cargo                                                                                                                         | 1965-2019, 9999    | <a href="#">21,22,28,29</a>                                     |
| 466          | P-series van                    | --                                                                                                                                                                                                                       | 1965-2019, 9999    | <a href="#">22,28,29</a>                                        |
| 470          | Van derivative                  | Hicube, Magna Van, Value Van, Parcel Van                                                                                                                                                                                 | 1965-2019, 9999    | <a href="#">28,29</a>                                           |
| 471          | S15/T15/Sonoma                  | 4 X 4, Syclone, SL, SLS, SLE, Extended/Crew Cab, ZR2, ZRX, ZR5                                                                                                                                                           | 1982-2004, 9999    | <a href="#">34,39, 40, 42</a>                                   |
| 472          | Canyon                          | Base, SLE, SL, SLT, Z71, Z85, Work Truck, Crew Cab, Extended Cab, Denali, All Terrain (Base, X)                                                                                                                          | 2004-19, 9999      | <a href="#">34</a>                                              |
| 481          | C, K, R, V-series pickup/Sierra | Excluding Yukon, C15-C35, K15-K35, R15-R35, V15-V35, Sierra, C/K1500, 2500, 3500, Sportside, X81, SL, Special, SLE, Classic, Extended Cab, Denali, Limited 1500HD/ 2500HD/ 3500HD, C3, Hybrid, SLT, Work Truck, 5SA, AT4 | 1940-2020, 9999    | <a href="#">34,39, 40, 42</a>                                   |
| 498          | Other (light truck)             | --                                                                                                                                                                                                                       | 1930-2020, 9999    | <a href="#">14-16,19, 20-22,28, 29, 34 40, 42, 45,48</a>        |
| 499          | Unknown (light truck)           | --                                                                                                                                                                                                                       | 1951-2020, 9999    | <a href="#">14-16,19, 20-22, 28,29, 34,39, 40, 42, 45,48,49</a> |

#### **MOTOR HOME**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|--------------------|-----------------|--------------------|------------------------|
| 850          | Motor Home         | --              | 1950-2019, 9999    | <a href="#">65,73</a>  |

## MEDIUM/HEAVY TRUCKS

| Codes | NCSA Models                                                | Includes                                                          | Model Years     | NCSA Body Types                            |
|-------|------------------------------------------------------------|-------------------------------------------------------------------|-----------------|--------------------------------------------|
| 870   | Medium/Heavy Van-Based Vehicle                             | Savana 3500, 4500                                                 | 1965-2019, 9999 | <a href="#">55</a> , <a href="#">61-64</a> |
| 880   | Medium/Heavy Pickup (pickup-style only - over 10,000 lbs.) | --                                                                | 1953-2020, 9999 | <a href="#">67</a>                         |
| 881   | Medium/Heavy - CBE                                         | W5000/6000/7000 series, Kodiak Brigadier/General models, Top Kick | 1967-2020, 9999 | <a href="#">60-64,66,71,72,78</a>          |
| 882   | Medium/Heavy - COE low entry                               | W6000/W7000, all other COE, low entry, W/WT Series                | 1968-2019, 9999 | <a href="#">60-64,66,71,72,78</a>          |
| 883   | Medium/Heavy - COE high entry                              | Astro 95, all other COE, high entry, T Series                     | 1969-2010, 9999 | <a href="#">60-64,66,71,72,78</a>          |
| 884   | Medium/Heavy - Unknown engine location                     | --                                                                | 1948-2019, 9999 | <a href="#">60-64,66,71,72,78</a>          |
| 890   | Medium/Heavy - COE entry position unknown                  | --                                                                | 1967-2019, 9999 | <a href="#">60-64,66,71,72,78</a>          |
| 898   | Other (medium/heavy truck)                                 | --                                                                | 1930-2020, 9999 | <a href="#">60-64,66,71,72,78</a>          |

## BUSES

| Codes | NCSA Models                            | Includes | Model Years     | NCSA Body Types             |
|-------|----------------------------------------|----------|-----------------|-----------------------------|
| 981   | Bus**: Conventional (Engine out front) | B6000    | 1950-2019, 9999 | <a href="#">50-52,58,59</a> |
| 988   | Other (bus)                            | --       | 1965-2019, 9999 | <a href="#">50,58,59</a>    |
| 989   | Unknown (bus)                          | --       | 1950-2019, 9999 | <a href="#">50-52,58,59</a> |

**\*\* Use code “989” (bus) if the frontal plane or the engine location is unknown.**

**OTHER AND UNKNOWN VEHICLE**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>     |
|--------------|--------------------|-----------------|--------------------|----------------------------|
| 998          | Other (vehicle)    | --              | 1965-2019,<br>9999 | <a href="#">92,93,97</a>   |
| 999          | Unknown (GMC)      | --              | 1940-2020,<br>9999 | <a href="#">49, 79, 99</a> |

**NCSA MAKE: Grumman/Grumman-Olson (25) (GRUM)****LIGHT TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b>    | <b>Includes</b>      | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|-----------------------|----------------------|--------------------|------------------------|
| 401          | LLV                   | Postal vehicle       | 1987-2004,<br>9999 | <a href="#">22</a>     |
| 441          | Step-in van           | Multi-stop, step van | 1987-2004,<br>9999 | <a href="#">22</a>     |
| 498          | Other (light truck)   | --                   | 1987-2004,<br>9999 | <a href="#">22</a>     |
| 499          | Unknown (light truck) | --                   | 1987-2004,<br>9999 | <a href="#">22</a>     |

**MEDIUM/HEAVY TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b>                        | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>                 |
|--------------|-------------------------------------------|-----------------|--------------------|----------------------------------------|
| 881          | Medium/Heavy - CBE                        | --              | 1987-2004,<br>9999 | <a href="#">60-64,66,<br/>71,72,78</a> |
| 882          | Medium/Heavy - COE<br>low entry           | --              | 1987-2004,<br>9999 | <a href="#">60-64,66,<br/>71,72,78</a> |
| 883          | Medium/Heavy - COE<br>high entry          | --              | 1987-2004,<br>9999 | <a href="#">60-64,66,<br/>71,72,78</a> |
| 884          | Medium/Heavy - engine<br>location unknown | --              | 1987-2004,<br>9999 | <a href="#">60-64,66,<br/>71,72,78</a> |
| 890          | Medium/Heavy - entry<br>position unknown  | --              | 1987-2004,<br>9999 | <a href="#">60-64,66,<br/>71,72,78</a> |
| 898          | Other (medium/heavy<br>truck)             | --              | 1987-2004,<br>9999 | <a href="#">60-64,66,<br/>71,72,78</a> |

## BUSES

| Codes | NCSA Models                    | Includes | Model Years     | NCSA Body Types             |
|-------|--------------------------------|----------|-----------------|-----------------------------|
| 983   | Bus**: Flat front, rear engine | Transit  | 1950-2004, 9999 | <a href="#">50-52,58,59</a> |
| 988   | Other (bus)                    | --       | 1950-2004, 9999 | <a href="#">50-52,58,59</a> |
| 989   | Unknown (bus)                  | --       | 1950-2004, 9999 | <a href="#">50-52,58,59</a> |

\*\* Use code “989” (bus) if the frontal plane or the engine location is unknown.

## UNKNOWN

| Codes | NCSA Models                      | Includes | Model Years     | NCSA Body Types        |
|-------|----------------------------------|----------|-----------------|------------------------|
| 999   | Unknown (GRUMMAN/GRUMMA N-OLSON) | --       | 1950-2004, 9999 | <a href="#">79, 99</a> |

## NCSA MAKE: Honda (37) (HOND)

([Acura: See “54”](#))

## AUTOMOBILES

| Codes | NCSA Models        | Includes                                                                                                                                                                                                                   | Model Years     | NCSA Body Types       |
|-------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------|
| 031   | Civic/CRX, del Sol | 1300, 1500, CVCC, DX, EX, VX, CX, FE, CRX, CRX Si, S, Si, HF, LX, 4WD Wagon, GX (NGV), HX, VTEC, VP, Si, Civic, Hybrid, Special Edition, EX-L, DX-VP, LX-S, Natural Gas, Sport, Sport Touring, EX-T, LX-P, Touring, Type R | 1973-2020, 9999 | <a href="#">02-09</a> |

| <b>Codes</b> | <b>NCSA Models</b>                                                                                                         | <b>Includes</b>                                                                                                                                                                                                                                                                                                             | <b>Model Years</b>           | <b>NCSA Body Types</b>         |
|--------------|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------|
| 032          | Accord (Note: For Crosstour model years 2010 and 2011 only. For Crosstour model years 2012-2015, see vehicle model 37-405) | LX (V-6, ULEV), LXI, DX, CVCC, SE-I, LX-I, V-6, SJE, SME, SMH, SMK, EX (Wagon, ULEV, V-6), SE (ULEV), Special Edition, Hybrid (Base, EX-L, Touring), Value Package, LX-S, LX-P, EX-L, Crosstour (EX, EX-L, EX(V6), EX-L (V6)), Premium, Plug-In Hybrid, Sport, Hybrid (EX-L, Touring), Touring, Sport Special Edition, EX-T | 1976-2020, 9999              | <a href="#">02-09</a>          |
| 033          | Prelude                                                                                                                    | S, Si, VTEC, SNF, SH, SE                                                                                                                                                                                                                                                                                                    | 1979-2001, 9999              | <a href="#">02</a>             |
| 034          | 600                                                                                                                        | Coupe, Sedan                                                                                                                                                                                                                                                                                                                | 1968-72, 9999                | <a href="#">02</a>             |
| 035          | S2000                                                                                                                      | Roadster, CR                                                                                                                                                                                                                                                                                                                | 2000-09, 9999                | <a href="#">01</a>             |
| 036          | EV Plus*                                                                                                                   | *Electric vehicle (EV+)                                                                                                                                                                                                                                                                                                     | 1997-2000, 9999              | <a href="#">03</a>             |
| 037          | Insight                                                                                                                    | *(Gasoline-Electric), MT/CVT, LX, EX, Touring                                                                                                                                                                                                                                                                               | 2000-06, 2010-14, 2019, 9999 | <a href="#">03, 04, 05, 09</a> |
| 038          | FCX/Clarity                                                                                                                | Hydrogen Vehicle, Clarity, Electric, Fuel Cell, Touring                                                                                                                                                                                                                                                                     | 2004-14, 2017-19, 9999       | <a href="#">03, 05, 09</a>     |
| 039          | Fit                                                                                                                        | Base, DX, LX, Sport, EV, EX, EX-L                                                                                                                                                                                                                                                                                           | 2006-19, 9999                | <a href="#">05</a>             |
| 041          | CR-Z                                                                                                                       | EX, Hybrid, Sport, LX, EX-L                                                                                                                                                                                                                                                                                                 | 2010-16, 9999                | <a href="#">03</a>             |
| 398          | Other (automobile)                                                                                                         | --                                                                                                                                                                                                                                                                                                                          | 1968-2020, 9999              | <a href="#">01-09</a>          |
| 399          | Unknown (automobile)                                                                                                       | --                                                                                                                                                                                                                                                                                                                          | 1968-2020, 9999              | <a href="#">01-09</a>          |

## LIGHT TRUCKS

| Codes | NCSA Models                                                                         | Includes                                                              | Model Years            | NCSA Body Types                      |
|-------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------|------------------------|--------------------------------------|
| 401   | Passport                                                                            | LX, EX, DX, EX-L                                                      | 1994-2002, 9999        | <a href="#">14</a>                   |
| 402   | CR-V                                                                                | LX, EX, Special Edition (SE), SC, EX-L, Touring, Hybrid               | 1997-2020, 9999        | <a href="#">14</a>                   |
| 403   | Element                                                                             | DX, EX, EX-P, LX, SC, Dog Friendly                                    | 2003-11, 9999          | <a href="#">14</a>                   |
| 404   | HR-V                                                                                | EX, EX-L, LX, Sport, Touring                                          | 2016-19, 9999          | <a href="#">14</a>                   |
| 405   | Crosstour (2012-2015 only. See vehicle model 37-032 for model years 2010 and 2011.) | --                                                                    | 2012-15, 9999          | <a href="#">14</a>                   |
| 421   | Pilot                                                                               | EX, EX-L, LX, SE, Value Package, Touring, Elite, Black Edition        | 2003-20,9999           | <a href="#">15</a>                   |
| 422   | Passport (2019 on. For 1994-2002 see model 401.)                                    | Sport, Elite, EX-L, Touring                                           | 2019                   | <a href="#">15</a>                   |
| 441   | Odyssey                                                                             | LX, EX, EX-L (Res, NAVI), Touring, Touring Elite, SE, Special Edition | 1995-2020, 9999        | <a href="#">20</a>                   |
| 471   | Ridgeline                                                                           | RT, RTL, RTL-T, RTL-E, RTS, RTX, Sport, Black Edition                 | 2006-14, 2017-19, 9999 | <a href="#">34</a>                   |
| 499   | Unknown (light truck)                                                               | --                                                                    | 1994-2020, 9999        | <a href="#">14,15,19, 20, 34, 49</a> |

## MOTORCYCLES

| Codes | NCSA Models       | Includes | Model Years     | NCSA Body Types                            |
|-------|-------------------|----------|-----------------|--------------------------------------------|
| 701   | 0-50 cc           | --       | 1978-2020, 9999 | <a href="#">80, 81, 83, 84, 88, 89</a>     |
| 702   | 51-124 cc         | --       | 1965-2020, 9999 | <a href="#">80, 81, 83, 84, 88, 89</a>     |
| 703   | 125-349 cc        | --       | 1965-2020, 9999 | <a href="#">80, 83, 84, 88, 89</a>         |
| 704   | 350-449 cc        | --       | 1965-2020, 9999 | <a href="#">80, 83, 84, 88, 89</a>         |
| 705   | 450-749 cc        | --       | 1970-2020, 9999 | <a href="#">80, 83, 84, 88, 89</a>         |
| 706   | 750 cc or greater | --       | 1970-2020, 9999 | <a href="#">80, 82, 83, 84, 87, 88, 89</a> |
| 709   | Unknown cc        | --       | 1965-2020, 9999 | <a href="#">80, 81, 83, 84, 88, 89</a>     |

## ALL TERRAIN VEHICLES

| Codes | NCSA Models      | Includes | Model Years     | NCSA Body Types        |
|-------|------------------|----------|-----------------|------------------------|
| 732   | 51-124cc         | --       | 1972-2020, 9999 | <a href="#">90, 96</a> |
| 733   | 125-349cc        | --       | 1972-2020, 9999 | <a href="#">90, 96</a> |
| 734   | 350cc or greater | --       | 1996-2020, 9999 | <a href="#">90, 96</a> |
| 739   | Unknown cc       | --       | 1972-2020, 9999 | <a href="#">90, 96</a> |

## OTHER AND UNKNOWN VEHICLE

| Codes | NCSA Models     | Includes | Model Years     | NCSA Body Types        |
|-------|-----------------|----------|-----------------|------------------------|
| 998   | Other (vehicle) | --       | 1968-2020, 9999 | <a href="#">95, 97</a> |
| 999   | Unknown (HONDA) | --       | 1965-2020, 9999 | <a href="#">49, 99</a> |

## **NCSA MAKE: Hyundai (55) (HYUN)**

### **AUTOMOBILES**

| <b>Codes</b> | <b>NCSA Models</b>                                                                    | <b>Includes</b>                                                                                                                        | <b>Model Years</b>  | <b>NCSA Body Types</b>          |
|--------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------------------|
| 031          | Pony                                                                                  | Pony Excel (Foreign)                                                                                                                   | 1979-88,9999        | <a href="#">02,03,09</a>        |
| 032          | Excel                                                                                 | GL, GLS, GS                                                                                                                            | 1984-94,9999        | <a href="#">03-05,07,09</a>     |
| 033          | Sonata                                                                                | GL, GLS, LX, SE, Limited, Hybrid (SE, Limited), 2.0T (Sport, Limited), Sport, Eco, Plug-in, SEL                                        | 1989-2020, 9999     | <a href="#">04</a>              |
| 034          | Scoupe                                                                                | LS, Turbo                                                                                                                              | 1991-95,9999        | <a href="#">02</a>              |
| 035          | Elantra                                                                               | GLS, GL, GT, Limited, SE, Touring (GLS, SE), GS, Sport, Value Edition, ECO, SEL                                                        | 1992-2020, 9999     | <a href="#">02, 04-06,08,09</a> |
| 036          | Accent                                                                                | L, GL, GS, Gsi, GT, GLS, SE, Blue, Sport, Limited, Value Edition, SEL                                                                  | 1995-2020, 9999     | <a href="#">03-05,07,09</a>     |
| 037          | Tiburon                                                                               | FX, GT, GS, SE, Limited                                                                                                                | 1997-2008, 9999     | <a href="#">02,03,09</a>        |
| 038          | XG300(2001)/ XG350 (2002 on)                                                          | L                                                                                                                                      | 2001-05,9999        | <a href="#">04</a>              |
| 039          | Azera (For 2018 on, code as vehicle model 398)                                        | SE, Limited, GLS                                                                                                                       | 2006-17,9999        | <a href="#">04</a>              |
| 040          | Equus                                                                                 | Signature, Ultimate                                                                                                                    | 2011-16,9999        | <a href="#">04</a>              |
| 041          | Genesis (For 2009-2016 only. For model years 2017 on, see 55-043, 55-044, and 55-046) | 3.8, 4.6, 2.0T, R-Spec, Grand Touring, Premium, Track, 5.0 R-Spec, Ultimate                                                            | 2009-16,9999        | <a href="#">02,04,08,09</a>     |
| 042          | Veloster                                                                              | Base, Turbo, Re-Mix, R-Spec, RE-FLEX Edition, Rally Edition, N, Premium, Turbo (Base, R-Spec, Ultimate), Ultimate, 2.0 (Base, Premium) | 2012-17, 2020, 9999 | <a href="#">03, 09</a>          |
| 043          | Genesis (G80)                                                                         | Standard, Premium, Sport, Ultimate (RWD/AWD)                                                                                           | 2017-20, 9999       | <a href="#">04</a>              |
| 044          | Genesis (G90)                                                                         | Premium, Ultimate (RWD/AWD)                                                                                                            | 2017-19, 9999       | <a href="#">04</a>              |
| 045          | Ioniq                                                                                 | Electric (Base, Limited), Hybrid (Blue, SEL, Limited), Plug-In Hybrid (Base, Limited)                                                  | 2017-19, 9999       | <a href="#">05</a>              |



| <b>Codes</b> | <b>NCSA Models</b>   | <b>Includes</b>   | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|----------------------|-------------------|--------------------|------------------------|
| 046          | Genesis (G70)        | Standard, Premium | 2019               | <a href="#">04</a>     |
| 398          | Other (automobile)   | Azera (2018 on)   | 1984-2020, 9999    | <a href="#">02-09</a>  |
| 399          | Unknown (automobile) | --                | 1984-2020, 9999    | <a href="#">02-09</a>  |

## **LIGHT TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b>                        | <b>Includes</b>                                                                                              | <b>Model Years</b> | <b>NCSA Body Types</b>       |
|--------------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------|------------------------------|
| 401          | Santa Fe                                  | GL, GLS, LX, Limited (Base, Ultimate), SE (Base, Ultimate), Sport (Base, 2.0T Ultimate), 2.0T, SEL, SEL Plus | 2001-20, 9999      | <a href="#">14</a>           |
| 402          | Tucson                                    | GL, GLS, LX, Limited, SE, Fuel Cell, ECO, Sport, SEL, Value, Ultimate                                        | 2005-20, 9999      | <a href="#">14</a>           |
| 403          | Veracruz (2007 only)                      | GLS, Limited, SE                                                                                             | 2007               | <a href="#">14</a>           |
| 404          | Kona                                      | EV, Iron Man Special Edition, SE, SEL, SEL Plus, Limited, Ultimate, Electric                                 | 2018-20, 9999      | <a href="#">14</a>           |
| 405          | Nexo                                      | Fuel Cell                                                                                                    | 2019               | <a href="#">14</a>           |
| 406          | Venue                                     | SE, SEL, Denim                                                                                               | 2020               | <a href="#">14</a>           |
| 421          | Veracruz (2008 on; see 403 for 2007 only) | GLS, Limited, SE                                                                                             | 2008-12, 9999      | <a href="#">15</a>           |
| 422          | Palisade                                  | SE, SEL, Limited                                                                                             | 2020               | <a href="#">15</a>           |
| 441          | Entourage                                 | GLS, Limited, SE                                                                                             | 2007-09, 9999      | <a href="#">20</a>           |
| 498          | Other (light truck)                       | --                                                                                                           | 2001-20, 9999      | <a href="#">14,15,19, 20</a> |
| 499          | Unknown (light truck)                     | --                                                                                                           | 2001-20, 9999      | <a href="#">14,15,19, 20</a> |

## **UNKNOWN**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|--------------------|-----------------|--------------------|------------------------|
| 999          | Unknown (HYUNDAI)  | --              | 1979-2020, 9999    | <a href="#">49, 99</a> |

**NCSA MAKE: Imperial (08) (CHRY)****AUTOMOBILES**

| <b>Codes</b> | <b>NCSA Models</b>   | <b>Includes</b>                     | <b>Model Years</b> | <b>NCSA Body Types</b>         |
|--------------|----------------------|-------------------------------------|--------------------|--------------------------------|
| 010          | Imperial             | LeBaron, Mark Cross, Crown Imperial | 1954-75,9999       | <a href="#">01,02,04,08,09</a> |
| 398          | Other (automobile)   | --                                  | 1965-75,9999       | <a href="#">01-09</a>          |
| 399          | Unknown (automobile) | --                                  | 1965-75,9999       | <a href="#">01-09</a>          |

**NCSA MAKE: Infiniti (58) (INFI)****AUTOMOBILES**

| <b>Codes</b> | <b>NCSA Models</b>  | <b>Includes</b>                                                                                                                                                                                                                | <b>Model Years</b>       | <b>NCSA Body Types</b>         |
|--------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------------|
| 031          | M30                 | --                                                                                                                                                                                                                             | 1990-92,9999             | <a href="#">01,02,09</a>       |
| 032          | Q45                 | Standard Touring, Q45t, Luxury, Sport, Premium                                                                                                                                                                                 | 1990-2006, 9999          | <a href="#">04</a>             |
| 033          | G20                 | G20t, Touring, Standard, Luxury                                                                                                                                                                                                | 1991-96; 1999-2002, 9999 | <a href="#">04</a>             |
| 034          | J30                 | --                                                                                                                                                                                                                             | 1993-97,9999             | <a href="#">04</a>             |
| 035          | I30                 | Standard, Touring, Luxury                                                                                                                                                                                                      | 1996-2001, 9999          | <a href="#">04</a>             |
| 036          | I35                 | Touring, Luxury                                                                                                                                                                                                                | 2002-04,9999             | <a href="#">04</a>             |
| 037          | G25/G35/G37         | x, 6MT, Journey, Sport, Special Edition, IPL                                                                                                                                                                                   | 2003-13,9999             | <a href="#">01,02,04,08,09</a> |
| 038          | M35/M37/M45/M56     | Sport, x, Hybrid                                                                                                                                                                                                               | 2003-13,9999             | <a href="#">04</a>             |
| 039          | FX35/FX37/FX45/FX50 | --                                                                                                                                                                                                                             | 2003-13,9999             | <a href="#">06</a>             |
| 040          | EX35                | Journey                                                                                                                                                                                                                        | 2008-13,9999             | <a href="#">06</a>             |
| 041          | Q50                 | Base (3.7 Premium/AWD/Hybrid) S (3.7 Premium/AWD/Hybrid), Eau Rogue, 2.0t (AWD, Premium, Sport, Pure, Luxe), 3.0t (Premium, Sport, Luxe, AWD, Pure), Red Sport 400, Hybrid (Base, Premium, Luxe), Signature Edition, Red Sport | 2014-20,9999             | <a href="#">04</a>             |

| <b>Codes</b> | <b>NCSA Models</b>   | <b>Includes</b>                                                                                                                                                                      | <b>Model Years</b> | <b>NCSA Body Types</b>            |
|--------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------|
| 042          | Q60                  | Journey, AWD, 6MT, IPL (Base and 6MT), S, Neiman Marcus, 2.0t (Base, AWD, Premium, Pure, Luxe), 3.0t (Premium, AWD, Luxe, Sport, Pure), Sport (Base, AWD), Red Sport 400 (Base, AWD) | 2014-20,9999       | <a href="#">01, 02, 09</a>        |
| 043          | Q70                  | Hybrid, 3.7 (Base, Luxe, AWD), 5.6 (Base, Luxe, AWD) L 3.7 (Base, Luxe, AWD), 5.6 (Base, Luxe, AWD)                                                                                  | 2014-19,9999       | <a href="#">04</a>                |
| 044          | QX50                 | Base, AWD, Journey, Pure, Luxe, Essential, Sensory, Autograph                                                                                                                        | 2014-20,9999       | <a href="#">06</a>                |
| 045          | Q40                  | --                                                                                                                                                                                   | 2015-16,9999       | <a href="#">04</a>                |
| 047          | QX30                 | Luxury, Premium, Sport, Pure, Essential                                                                                                                                              | 2017-19,9999       | <a href="#">05</a>                |
| 398          | Other (automobile)   | --                                                                                                                                                                                   | 1990-2020, 9999    | <a href="#">01,02,04,06,08,09</a> |
| 399          | Unknown (automobile) | --                                                                                                                                                                                   | 1990-2020, 9999    | <a href="#">01,02,04,06,08,09</a> |

## **LIGHT TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b>    | <b>Includes</b>                       | <b>Model Years</b> | <b>NCSA Body Types</b>   |
|--------------|-----------------------|---------------------------------------|--------------------|--------------------------|
| 401          | QX4                   | Luxury                                | 1997-2003, 9999    | <a href="#">14</a>       |
| 402          | JX35                  | Luxury, AWD                           | 2013               | <a href="#">14</a>       |
| 403          | QX60                  | 3.5, AWD, Hybrid, Limited, Pure, Luxe | 2014-20,9999       | <a href="#">14</a>       |
| 404          | QX70                  | 3.7, 5.0, AWD                         | 2014-17,9999       | <a href="#">14</a>       |
| 421          | QX56                  | --                                    | 2004-13,9999       | <a href="#">15</a>       |
| 422          | QX80                  | Base, AWD, 4WD, Limited, Luxe         | 2014-19,9999       | <a href="#">15</a>       |
| 499          | Unknown (light truck) | --                                    | 1997-2020, 9999    | <a href="#">14,15,19</a> |

**UNKNOWN**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>                  |
|--------------|--------------------|-----------------|--------------------|-----------------------------------------|
| 999          | Unknown (INFINITI) | --              | 1990-2020, 9999    | <a href="#">49</a> , <a href="#">99</a> |

**NCSA MAKE: Isuzu (38) (ISU )****AUTOMOBILES**

| <b>Codes</b> | <b>NCSA Models</b>   | <b>Includes</b>    | <b>Model Years</b> | <b>NCSA Body Types</b>      |
|--------------|----------------------|--------------------|--------------------|-----------------------------|
| 031          | I-Mark               | S, RS, Turbo, DOHC | 1981-90,9999       | <a href="#">02-04,08,09</a> |
| 032          | Impulse              | Turbo, RS          | 1983-92,9999       | <a href="#">02,03,09</a>    |
| 033          | Stylus               | --                 | 1991-94,9999       | <a href="#">04</a>          |
| 398          | Other (automobile)   | --                 | 1981-94,9999       | <a href="#">02-04,08,09</a> |
| 399          | Unknown (automobile) | --                 | 1981-94,9999       | <a href="#">02-04,08,09</a> |

**LIGHT TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b>        | <b>Model Years</b>       | <b>NCSA Body Types</b>                                          |
|--------------|--------------------|------------------------|--------------------------|-----------------------------------------------------------------|
| 401          | Trooper/Trooper II | Deluxe, LS, S, LTD     | 1984-2002, 9999          | <a href="#">14</a>                                              |
| 402          | Rodeo/ Rodeo Sport | S, LS, LSE             | 1991-2004, 9999          | <a href="#">14</a>                                              |
| 403          | Amigo              | --                     | 1989-94; 1998-2000, 9999 | <a href="#">14</a>                                              |
| 404          | VehiCROSS          | VXO                    | 1999-2001, 9999          | <a href="#">14</a>                                              |
| 405          | Axiom              | XS                     | 2002-04,9999             | <a href="#">14</a>                                              |
| 421          | Ascender           | LS, S, Limited, Luxury | 2003-08,9999             | <a href="#">15</a>                                              |
| 441          | Oasis              | S, LS                  | 1996-99,9999             | <a href="#">20</a>                                              |
| 471          | P'up (pickup)      | 4 X 4                  | 1976-95,9999             | <a href="#">34,39</a>                                           |
| 472          | Hombre             | S, XS, XS Space Cab    | 1996-2000, 9999          | <a href="#">34,39</a> , <a href="#">40</a> , <a href="#">42</a> |
| 473          | i-280/i-290        | S, LS, Luxury          | 2006-2008, 9999          | <a href="#">34</a>                                              |

| <b>Codes</b> | <b>NCSA Models</b>    | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>                             |
|--------------|-----------------------|-----------------|--------------------|----------------------------------------------------|
| 474          | i-350/i-370           | LS, Limited, S  | 2006-2008, 9999    | <a href="#">34</a>                                 |
| 498          | Other (light truck)   | --              | 1981-2008, 9999    | <a href="#">14,15, 20, 34,39, 40, 42, 48</a>       |
| 499          | Unknown (light truck) | --              | 1981-2008, 9999    | <a href="#">14,15,19, 20, 34,39, 40, 42, 48,49</a> |

#### **MEDIUM/HEAVY TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b>                        | <b>Includes</b>                    | <b>Model Years</b> | <b>NCSA Body Types</b>                 |
|--------------|-------------------------------------------|------------------------------------|--------------------|----------------------------------------|
| 881          | Medium/Heavy - CBE                        | --                                 | 1981-2004, 9999    | <a href="#">60-64,66, 71,72,78</a>     |
| 882          | Medium/Heavy - COE low entry              | NOR, NPR, NQR, N Series            | 1981-2020, 9999    | <a href="#">60-64,66, 71,72,78</a>     |
| 883          | Medium/Heavy - COE, high entry            | FRR, FRRI, FSR, FTR, FVR, F Series | 1981-2020, 9999    | <a href="#">60-64,66, 71,72,78</a>     |
| 884          | Medium/Heavy - Unknown engine location    | --                                 | 1981-2020, 9999    | <a href="#">60-64,66, 71,72,78</a>     |
| 890          | Medium/Heavy - COE entry position unknown | --                                 | 1981-2020, 9999    | <a href="#">60-64,66, 71,72,78</a>     |
| 898          | Other (medium/heavy truck)                | --                                 | 1981-2020, 9999    | <a href="#">60-64,66, 71,72,78, 97</a> |

## BUSES

| Codes | NCSA Models                            | Includes | Model Years     | NCSA Body Types             |
|-------|----------------------------------------|----------|-----------------|-----------------------------|
| 981   | Bus**: Conventional (Engine out front) | --       | 1981-2019, 9999 | <a href="#">50-52,58,59</a> |
| 982   | Bus: Front engine, Flat front          | --       | 1981-2019, 9999 | <a href="#">50-52,58,59</a> |
| 983   | Bus: Rear engine Flat front            | --       | 1981-2019, 9999 | <a href="#">50-52,58,59</a> |
| 988   | Other (bus)                            | --       | 1981-2019, 9999 | <a href="#">50-52,58,59</a> |
| 989   | Unknown (bus)                          | --       | 1981-2019, 9999 | <a href="#">50-52,58,59</a> |

**\*\*Use code “989” (bus) if the frontal plane or the engine location is unknown.**

## UNKNOWN

| Codes | NCSA Models     | Includes | Model Years     | NCSA Body Types            |
|-------|-----------------|----------|-----------------|----------------------------|
| 999   | Unknown (ISUZU) | --       | 1981-2020, 9999 | <a href="#">49, 79, 99</a> |

## NCSA MAKE: Jaguar (39) (JAGU)

### AUTOMOBILES

| Codes | NCSA Models                                   | Includes                                                                                                                                                                                                                                                       | Model Years     | NCSA Body Types             |
|-------|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------|
| 031   | XJ-S, XK8 Coupe                               | S, SC, GT, H.E.                                                                                                                                                                                                                                                | 1976-2008, 9999 | <a href="#">01,02,09</a>    |
| 032   | XJ/ XJL/ XJ6/ 12/ XJR/ XJ8/ XJ8L Sedan/ Coupe | Mk II, Mk X, XJ,3.85, 3.8, 340/420 Sedan; XJ8 (LWB, L, Vanden Plas, Sport); XJ6(L), C, L, Vanden Plas, III, GT, Super 8, Limited, Portfolio, Supersport, Supercharged, Ultimate, Standard Wheelbase, Long Wheelbase, R-Sport, 50th Anniversary Special Edition | 1949-2019, 9999 | <a href="#">02,04,08,09</a> |
| 033   | XK-E                                          | V12, Roadster, 120,140, 150, 2+2                                                                                                                                                                                                                               | 1946-74,9999    | <a href="#">01-03,09</a>    |

| <b>Codes</b> | <b>NCSA Models</b>   | <b>Includes</b>                                                                                                                         | <b>Model Years</b> | <b>NCSA Body Types</b>         |
|--------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------------|
| 034          | S-Type               | 3.0, 4.0, 4.2, Base, Sport, L, R, VDP Edition                                                                                           | 2000-08,9999       | <a href="#">04</a>             |
| 035          | XKR/XK               | Victory Edition, Portfolio, 175 Limited Edition, Black Pack, XKR-S, Touring, GT, Final Fifty                                            | 2000-15, 9999      | <a href="#">01-03,09</a>       |
| 036          | X-Type               | 2.5, 3.0, Sport, VDP Edition                                                                                                            | 2002-08, 9999      | <a href="#">04,06,09</a>       |
| 037          | XF/XF-R              | 4.2 Luxury, S, Premium Luxury, Supercharged, 3.0, 2.0T, Portfolio, Sport, Prestige, R-Sport, S, Sportbrake (First Edition, S, Prestige) | 2008-20, 9999      | <a href="#">04,06,09</a>       |
| 038          | F-Type               | S, V8, Project 7, Premium, SVR, Type R, British Design Edition, R-Dynamic, 400 Sport, Checkered Flag                                    | 2014-20, 9999      | <a href="#">01, 03, 09</a>     |
| 039          | XE                   | Premium, Prestige, R-Sport, R-Dynamic, S                                                                                                | 2016-20, 9999      | <a href="#">04</a>             |
| 398          | Other (automobile)   | --                                                                                                                                      | 1949-2020, 9999    | <a href="#">01-04,06,08,09</a> |
| 399          | Unknown (automobile) | --                                                                                                                                      | 1949-2020, 9999    | <a href="#">01-04,06,08,09</a> |

## **LIGHT TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b>    | <b>Includes</b>                                                               | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|-----------------------|-------------------------------------------------------------------------------|--------------------|------------------------|
| 401          | F-Pace                | 20d/35t (Premium, Prestige, First Edition, Sport, R-Sport, S), SVR, Portfolio | 2017-20, 9999      | <a href="#">14</a>     |
| 402          | E-Pace                | Base, S, SE, R-Dynamic (S, SE, HSE), First Edition, Checkered Flag Edition    | 2018-20, 9999      | <a href="#">14</a>     |
| 403          | I-Pace                | Base, First Edition, e-Trophy, S, SE, HSE                                     | 2019               | <a href="#">14</a>     |
| 499          | Unknown (light truck) | --                                                                            | 2017-20, 9999      | <a href="#">14</a>     |

**UNKNOWN**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>                  |
|--------------|--------------------|-----------------|--------------------|-----------------------------------------|
| 999          | Unknown (JAGUAR)   | --              | 1946-2020, 9999    | <a href="#">49</a> , <a href="#">99</a> |

**NCSA MAKE: Jeep\* (Includes Willys\*\*/Kaiser-Jeep) (02) (AMER)****AUTOMOBILES**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b>                                                                               | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|--------------------|-----------------------------------------------------------------------------------------------|--------------------|------------------------|
| 001          | Compass            | Base, Sport, Limited, Latitude, Altitude, High Altitude, SE, 75th Anniversary Edition, Upland | 2007-20, 9999      | <a href="#">06</a>     |

**LIGHT TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b>  | <b>Includes</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Model Years</b>       | <b>NCSA Body Types</b> |
|--------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------------|
| 401          | CJ-2/CJ-3/CJ-4      | Military                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1940-66,9999             | <a href="#">14</a>     |
| 402          | CJ-5/CJ-6/CJ-7/CJ-8 | Scrambler, Renegade, Golden Eagle, Laredo, Wrangler,                                                                                                                                                                                                                                                                                                                                                                                                             | 1967-93,9999             | <a href="#">14</a>     |
| 403          | YJ series/Wrangler  | SE, Sport (Base, S), Sahara, X, Rubicon (Base, Hard Rock), Unlimited (Altitude, Dragon, Freedom, Polar, Rubicon X. Willys Wheeler, Sport, S, Sahara), Islander, Call of Duty: Black Ops Edition, Moab, Altitude, Freedom, Rio Grande, 60th/65th Anniversary Edition, Apex, Columbia, Golden Eagle, Rocky Mountain, Willys, Willys Wheeler (Base, W), Black Bear, 75th Anniversary Edition, Winter, Rubicon Recon, Black and Tan Edition, Sahara Altitude Edition | 1986-95; 1997-2020, 9999 | <a href="#">14</a>     |



| <b>Codes</b> | <b>NCSA Models</b>                                                         | <b>Includes</b>                                                                                                                                                                                                                                                                      | <b>Model Years</b> | <b>NCSA Body Types</b>                                          |
|--------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------------|
| 404          | Cherokee (1984-on) (For Grand Cherokee for 2014 on use 02-422.)            | Limited, Laredo, Pioneer, Sport, Grand Cherokee, TSi, Briarwood, Country, RHD, SE, Classic, Overland, Special Edition, SRT8, Summit, Laredo X, Overland Summit, Altitude, Trail Hawk, Sport, Latitude (Base, Plus), Limited, 75th Anniversary, Sport Altitude, High Altitude, Upland | 1984-2020, 9999    | <a href="#">14</a>                                              |
| 405          | Liberty                                                                    | Sport, Limited Edition, Renegade, Columbia Edition, Rocky Mountain Edition, CRD, Special Edition, Latitude, Jet                                                                                                                                                                      | 2002-13,9999       | <a href="#">14</a>                                              |
| 406          | Commander                                                                  | Base, Limited, Overland, Sport, Rocky Mountain                                                                                                                                                                                                                                       | 2006-10,9999       | <a href="#">14</a>                                              |
| 407          | Patriot                                                                    | Sport (Base, SE), Limited, Latitude, X, Altitude, High Altitude, Freedom Edition, 75th Anniversary Edition                                                                                                                                                                           | 2007-17,9999       | <a href="#">14</a>                                              |
| 408          | Renegade                                                                   | Trail Hawk, Latitude, Sport, Altitude, Limited, Desert Hawk, 75th Anniversary Edition, Upland, High Altitude                                                                                                                                                                         | 2015-19,9999       | <a href="#">14</a>                                              |
| 421          | Cherokee (thru 1983)                                                       | Wide Track, Chief, Commando, Jeepster                                                                                                                                                                                                                                                | 1969-83,9999       | <a href="#">15</a>                                              |
| 422          | Grand Cherokee (For 2014 on. Use model 404 for model years prior to 2013.) | Laredo (Base/E), Limited, Overland, Summit, SRT (Laredo [Base, E] 75th Anniversary Edition [Base, E], Altitude, Limited, Overland, Summit), Trailhawk, 75th Anniversary Edition (Base, Limited), Altitude, Latitude (Base, Plus), Upland, Limited X, High Altitude, Trailhawk Elite  | 2014-20,9999       | <a href="#">15</a>                                              |
| 431          | Grand Wagoneer                                                             | Custom, Brougham Limited, Wagoneer                                                                                                                                                                                                                                                   | 1971-91; 1993,9999 | <a href="#">15</a>                                              |
| 481          | Pickup                                                                     | J-10, J-20, Honcho                                                                                                                                                                                                                                                                   | 1940-93,9999       | <a href="#">34,39</a> , <a href="#">40</a> , <a href="#">42</a> |
| 482          | Comanche                                                                   | Chief                                                                                                                                                                                                                                                                                | 1986-92,9999       | <a href="#">34,39</a> , <a href="#">40</a> , <a href="#">42</a> |

| <b>Codes</b> | <b>NCSA Models</b>    | <b>Includes</b>                   | <b>Model Years</b> | <b>NCSA Body Types</b>                                                                                                   |
|--------------|-----------------------|-----------------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------|
| 483          | Gladiator             | Sport, Sport S, Overland, Rubicon | 2020               | <a href="#">34</a> , <a href="#">39</a>                                                                                  |
| 498          | Other (light truck)   | --                                | 1940-2020, 9999    | <a href="#">14,15,19</a> , <a href="#">34,39</a> , <a href="#">40,41</a> , <a href="#">42</a> , <a href="#">45,48,49</a> |
| 499          | Unknown (light truck) | --                                | 1940-2020, 9999    | <a href="#">14,15,19</a> , <a href="#">34,39</a> , <a href="#">40,41</a> , <a href="#">42</a> , <a href="#">45,48,49</a> |

#### **UNKNOWN**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|--------------------|-----------------|--------------------|------------------------|
| 999          | Unknown (JEEP)     | --              | 1940-2020, 9999    | <a href="#">49</a>     |

**\*Note that Jeep DJ-series are coded under [MAKE 03, MODEL 466](#)**

**\*\*Willys Jeep can be coded 401 or 999.**

#### **NCSA MAKE: KIA (63) (KIA)**

##### **AUTOMOBILES**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b>                                                                      | <b>Model Years</b> | <b>NCSA Body Types</b>   |
|--------------|--------------------|--------------------------------------------------------------------------------------|--------------------|--------------------------|
| 031          | Sephia             | RS, LS, GS                                                                           | 1994-01,9999       | <a href="#">04</a>       |
| 032          | Rio/Rio5           | Cinco (Wagon), LX, SX, EX, S                                                         | 2001-20,9999       | <a href="#">04-06,09</a> |
| 033          | Spectra/Spectra5   | GS, GSX, GX, LS, LX, EX, SX                                                          | 2000-09,9999       | <a href="#">04,05,09</a> |
| 034          | Optima             | LX, SE, V6, EX (Base, Premium), SX, SX Turbo, Hybrid, Limited, SXL, Plug In, S       | 2001-20,9999       | <a href="#">04</a>       |
| 035          | Amanti             | --                                                                                   | 2004-10,9999       | <a href="#">04</a>       |
| 036          | Rondo              | EX, LX                                                                               | 2007-10,9999       | <a href="#">06</a>       |
| 037          | Soul               | Base, sport, +, !, White Tiger, EV, Tarmac, 1 Million, X-Line, GT-Line (Base, Turbo) | 2009-20,9999       | <a href="#">06</a>       |

| <b>Codes</b> | <b>NCSA Models</b>   | <b>Includes</b>                                                             | <b>Model Years</b> | <b>NCSA Body Types</b>          |
|--------------|----------------------|-----------------------------------------------------------------------------|--------------------|---------------------------------|
| 038          | Forte                | 2.0 (EX, LX, SX) 2.4 (SX), Koup (EX, LX, SX) 5 (EX, LX, SX), S, FX, EX, LXS | 2010-20,9999       | <a href="#">02,04,05,08,09</a>  |
| 039          | Cadenza              | Premium, Limited, Technology                                                | 2012-19, 9999      | <a href="#">04</a>              |
| 040          | K900                 | V6 (Premium, Luxury), V8 (Luxury)                                           | 2014-19,9999       | <a href="#">04</a>              |
| 041          | Stinger              | 2.0, Premium, GT, GT1, GT2                                                  | 2018-19, 9999      | <a href="#">05</a>              |
| 398          | Other (automobile)   | --                                                                          | 1994-2020, 9999    | <a href="#">02,04-06,08,09</a>  |
| 399          | Unknown (automobile) | --                                                                          | 1994-2020, 9999    | <a href="#">02,04-06,08, 09</a> |

#### **LIGHT TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b>    | <b>Includes</b>                                                          | <b>Model Years</b>       | <b>NCSA Body Types</b>       |
|--------------|-----------------------|--------------------------------------------------------------------------|--------------------------|------------------------------|
| 401          | Sportage              | EX, LX, 4WD, Limited, S, SX, Base, Turbo                                 | 1995-2003, 2005-20, 9999 | <a href="#">14</a>           |
| 402          | Sorento               | EX, EX-V6, L, LX, LX-V6, SX, SX-V6, Limited, Limited-V6, SXL, S V6       | 2003-20, 9999            | <a href="#">14</a>           |
| 403          | Niro                  | FE, EX, LX, Touring (Base, Launch Edition, Graphite Edition), Plug-In, S | 2017-19, 9999            | <a href="#">14</a>           |
| 421          | Borrego               | EX, LX, LTD                                                              | 2008-10,9999             | <a href="#">15</a>           |
| 422          | Telluride             | EX, LX, S, SX                                                            | 2020                     | <a href="#">15</a>           |
| 441          | Sedona                | EX, L, LX, L, SX, Limited, SXL                                           | 2002-12, 2014-20, 9999   | <a href="#">20</a>           |
| 498          | Other (light truck)   | --                                                                       | 1995-2020 9999           | <a href="#">14,15,19, 20</a> |
| 499          | Unknown (light truck) | --                                                                       | 1995-2020, 9999          | <a href="#">14,15,19, 20</a> |

**UNKNOWN**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|--------------------|-----------------|--------------------|------------------------|
| 999          | Unknown (KIA)      | --              | 1994-2020, 9999    | <a href="#">49</a>     |

**NCSA MAKE: Lancia (40) (LNCI)****AUTOMOBILES**

| <b>Codes</b> | <b>NCSA Models</b>   | <b>Includes</b>                                  | <b>Model Years</b> | <b>NCSA Body Types</b>            |
|--------------|----------------------|--------------------------------------------------|--------------------|-----------------------------------|
| 031          | Beta Sedan - HPE     | Zagato                                           | 1976-82,9999       | <a href="#">02,04,06,08,09</a>    |
| 032          | Zagato               | --                                               | 1976-82,9999       | <a href="#">01,02,09</a>          |
| 033          | Scorpion             | (Mote Carlo- Europe Only)                        | 1977               | <a href="#">02</a>                |
| 398          | Other (automobile)   | Stratos, Fulvia, Flavia, Appia, Aurelia, Aprilia | 1946-82,9999       | <a href="#">01-09</a>             |
| 399          | Unknown (automobile) | --                                               | 1946-82,9999       | <a href="#">01,02,04,06,08,09</a> |

**\*NOTE: Lancia did not import in 1980. 1982 - last year imported**

**NCSA MAKE: Land Rover (62) (LNDR)****LIGHT TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b>                         | <b>Includes</b>                                                                                                                                  | <b>Model Years</b>  | <b>NCSA Body Types</b> |
|--------------|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------|
| 401          | Discovery (For 2017 on, see model 425)     | SD, SE, SE7, LE, LSE, Series II, Kalahari Edition, S, HSE, G-4 Edition                                                                           | 1994-2004, 9999     | <a href="#">14</a>     |
| 402          | Defender                                   | 90                                                                                                                                               | 1993-95; 1997, 9999 | <a href="#">14</a>     |
| 403          | Freelander (2004 on; see 422 for 2002-03.) | HSE, SE, S, SE3, G4 Edition                                                                                                                      | 2004-05,9999        | <a href="#">14</a>     |
| 404          | Range Rover Evoque                         | Pure (Premium, Plus), Prestige, Dynamic, SE (Base, Premium), HSE (Base, Dynamic), Autobiography, Landmark Edition, S, First Edition, Convertible | 2012-20,9999        | <a href="#">14</a>     |

| <b>Codes</b> | <b>NCSA Models</b>                                   | <b>Includes</b>                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Model Years</b> | <b>NCSA Body Types</b>   |
|--------------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------|
| 405          | Discovery Sport                                      | HSE (Base, Luxury), SE, Landmark Edition                                                                                                                                                                                                                                                                                                                                                                                            | 2015-20,9999       | <a href="#">14</a>       |
| 421          | Range Rover                                          | County, County SE, Great Divide, Hunter, LSE, County LWB, 4.0SE, 4.6HSE, S, SE, HSE, Westminster, Limited Edition, Supercharged, Sport (HST, SE, SVR, HSE [Base, Dynamic]), Supercharged, Autobiography), Supercharged, HSE-LUX, Autobiography (Base, Black), Standard Wheelbase (Base, HSE, Supercharged, Autobiography, SV Autobiography DYNAMIC), Long Wheelbase (Supercharged, Autobiography, SV Autobiography), PHEV, SV Coupe | 1987-2020, 9999    | <a href="#">15</a>       |
| 422          | Freelander (2002-03 only; see 403 for 2004 on)       | HSE, SE, S, SE3                                                                                                                                                                                                                                                                                                                                                                                                                     | 2002-03,9999       | <a href="#">15</a>       |
| 423          | LR3/LR4                                              | HSE, SE, LUX, Plus, V8, Limited Edition, HSE Silver Edition, Landmark Edition                                                                                                                                                                                                                                                                                                                                                       | 2005-16,9999       | <a href="#">15</a>       |
| 424          | LR2                                                  | i6, TD4, HSE, LUX, Plus                                                                                                                                                                                                                                                                                                                                                                                                             | 2007-16,9999       | <a href="#">15</a>       |
| 425          | Discovery (For model years 1994-2004, see model 401) | SE, HSE, HSE Luxury, First Edition, Sport (HSE, HSE Luxury, SE)                                                                                                                                                                                                                                                                                                                                                                     | 2017-20, 9999      | <a href="#">15</a>       |
| 426          | Velar                                                | Base, B-Dynamic, First Edition, R-Dynamic (SE, HSE), S                                                                                                                                                                                                                                                                                                                                                                              | 2018-20, 9999      | <a href="#">15</a>       |
| 427          | Defender                                             | 110, 90 First Edition, 110 First Edition                                                                                                                                                                                                                                                                                                                                                                                            | 2020               | <a href="#">15</a>       |
| 498          | Other (light truck)                                  | Land Rover (1948-1990), Range Rover (before 1987)                                                                                                                                                                                                                                                                                                                                                                                   | 1948-1990, 9999    | <a href="#">14,15,19</a> |
| 499          | Unknown (light truck)                                | --                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1948-2020, 9999    | <a href="#">14,15,19</a> |

## **NCSA MAKE: Lexus (59) (LEXS)**

### **AUTOMOBILES**

| <b>Codes</b> | <b>NCSA Models</b>                  | <b>Includes</b>                                                    | <b>Model Years</b> | <b>NCSA Body Types</b>            |
|--------------|-------------------------------------|--------------------------------------------------------------------|--------------------|-----------------------------------|
| 031          | ES-250/300/300h/330/ 350            | Black Diamond Edition, Premium Plus, Ultra Luxury, Hybrid, F-Sport | 1990-2020, 9999    | <a href="#">04</a>                |
| 032          | LS-400 /430 /460 /460L/ 600h/ 600hL | LS-F Sport, Hybrid, Nightfall Edition, LS 500, LS 500h             | 1990-2020, 9999    | <a href="#">04</a>                |
| 033          | SC-400/300                          | 2-Door Coupe                                                       | 1992-2000, 9999    | <a href="#">02</a>                |
| 034          | GS-300/350/400/430/ 450h/460        | Hybrid, F Sport, Turbo, F                                          | 1993-2020, 9999    | <a href="#">04</a>                |
| 035          | IS-250/300/350/500/200t             | SportCross, Sport, F, C, F Sport, Turbo                            | 2001-20,9999       | <a href="#">01,04,05,09</a>       |
| 036          | SC-430                              | Special Edition, Pebble Beach                                      | 2002-10,9999       | <a href="#">01</a>                |
| 037          | HS 250h                             | Premium                                                            | 2010-12,9999       | <a href="#">04</a>                |
| 038          | CT 200h                             | F Sport                                                            | 2011-17,9999       | <a href="#">05</a>                |
| 039          | LFA                                 | Standard, Special                                                  | 2012-17,9999       | <a href="#">01,02,09</a>          |
| 040          | RC                                  | 300, 350, 350h, F Sport, Turbo, F                                  | 2015-20,9999       | <a href="#">01,02,09</a>          |
| 042          | LC Series                           | 500, 500h                                                          | 2018-20, 9999      | <a href="#">02</a>                |
| 043          | UX                                  | 200, Hybrid, F-Sport, 250h, Luxury                                 | 2019-20, 9999      | <a href="#">05</a>                |
| 398          | Other (automobile)                  | --                                                                 | 1990-2020, 9999    | <a href="#">01,02,04,05,08,09</a> |
| 399          | Unknown (automobile)                | --                                                                 | 1990-2020, 9999    | <a href="#">01,02,04,05,08,09</a> |

### **LIGHT TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b>  | <b>Includes</b>                                                        | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|---------------------|------------------------------------------------------------------------|--------------------|------------------------|
| 401          | RX300/350           | 2WD, 4WD                                                               | 1999-03,9999       | <a href="#">14</a>     |
| 402          | GX470               | Sport, Premium                                                         | 2003-09,9999       | <a href="#">14</a>     |
| 403          | RX330/350/400h/450h | Hybrid, Thundercloud, Mark Levinson Package, F Sport, L (Base, Hybrid) | 2004-20,9999       | <a href="#">14</a>     |

| <b>Codes</b> | <b>NCSA Models</b>    | <b>Includes</b>                         | <b>Model Years</b> | <b>NCSA Body Types</b>   |
|--------------|-----------------------|-----------------------------------------|--------------------|--------------------------|
| 404          | GX460                 | Sport, Premium, Luxury                  | 2010-20, 9999      | <a href="#">14</a>       |
| 405          | NX                    | 200t, 300, 300h, F Sport, Hybrid, Turbo | 2015-20,9999       | <a href="#">14</a>       |
| 421          | LX450/470/570         | --                                      | 1996-2020, 9999    | <a href="#">15</a>       |
| 499          | Unknown (light truck) | --                                      | 1996-2020, 9999    | <a href="#">14,15,19</a> |

#### **UNKNOWN**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|--------------------|-----------------|--------------------|------------------------|
| 999          | Unknown (LEXUS)    | --              | 1990-2020, 9999    | <a href="#">49</a>     |

#### ***NCSA MAKE: Lincoln (13) (LINC)***

#### **AUTOMOBILES**

| <b>Codes</b> | <b>NCSA Models</b>               | <b>Includes</b>                                                                                                                                                                       | <b>Model Years</b> | <b>NCSA Body Types</b>                |
|--------------|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------------|
| 001          | Continental (thru '81)/ Town Car | Continental, (thru '81), Signature/Designer Series, Town Car ('81 on, body 04 only), Cartier, Executive, L, Premium, Ballistic Protection Edition, Ultimate, Designer Series, Limited | 1940-2011, 9999    | <a href="#">01,02,04,08,09, 11,12</a> |
| 002          | Mark                             | I, II, III, IV, V, VI, VII, VIII LSC, Signature/Designer Series                                                                                                                       | 1956-98,9999       | <a href="#">01,02,04,08,09</a>        |
| 005          | Continental ('82 on)             | Signature/Designer Series, Luxury                                                                                                                                                     | 1982-2002, 9999    | <a href="#">02,04,08,09, 12</a>       |
| 011          | Versailles                       | --                                                                                                                                                                                    | 1977-80,9999       | <a href="#">04</a>                    |
| 012          | LS                               | Convenience, Premium, Sport, Luxury, Ultimate                                                                                                                                         | 2000-06,9999       | <a href="#">04</a>                    |

| <b>Codes</b> | <b>NCSA Models</b>   | <b>Includes</b>                                                                                                                                                                             | <b>Model Years</b> | <b>NCSA Body Types</b>                        |
|--------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------|
| 013          | Zephyr/MKZ           | FWD, AWD, Hybrid (Premier 400A, Select 500A, Reserve 600A), 2.0L, 3.7L, EcoBoost, Premiere (100A), Select (200A), Reserve (300A, I, II), Black Label (Vineyard, Chalet, Thoroughbred), 3.0L | 2006-19,9999       | <a href="#">04</a>                            |
| 014          | MKX                  | FWD, AWD, Black Label (Modern Heritage, Indulgence, Thoroughbred, The Muse), Premiere, Select, Reserve                                                                                      | 2007-18,9999       | <a href="#">06</a>                            |
| 015          | MKS                  | EcoBoost, 3.7L FWD/AWD                                                                                                                                                                      | 2008-16,9999       | <a href="#">04</a>                            |
| 016          | MKT                  | EcoBoost, TownCar, 3.5L, 3.7L, Premiere, Reserve                                                                                                                                            | 2010-19,9999       | <a href="#">06,09</a> , <a href="#">11,12</a> |
| 017          | Continental          | Black Label Edition (Rhapsody, Chalet, Thoroughbred), Select, Premiere, Reserve, 80th Anniversary Coach Door Edition                                                                        | 2017-20, 9999      | <a href="#">04</a>                            |
| 398          | Other (automobile)   | Cosmopolitan, Capri, Premiere                                                                                                                                                               | 1940-2020, 9999    | <a href="#">01-09</a> , <a href="#">10-12</a> |
| 399          | Unknown (automobile) | --                                                                                                                                                                                          | 1940-2020, 9999    | <a href="#">01-09</a> , <a href="#">10-12</a> |

#### **LIGHT TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b>                                                                              | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|--------------------|----------------------------------------------------------------------------------------------|--------------------|------------------------|
| 401          | Aviator            | Premium, Luxury, Ultimate, Kitty Hawk Edition                                                | 2003-06,9999       | <a href="#">14</a>     |
| 402          | MKC                | FWD, AWD, Black Label (Modern Heritage, Center Stage, Indulgence), Premiere, Select, Reserve | 2015-19,9999       | <a href="#">14</a>     |
| 403          | Corsair            | Standard, Reserve                                                                            | 2020               | <a href="#">14</a>     |



| <b>Codes</b> | <b>NCSA Models</b>    | <b>Includes</b>                                                                                                    | <b>Model Years</b> | <b>NCSA Body Types</b>                        |
|--------------|-----------------------|--------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------|
| 421          | Navigator             | 2WD, 4WD, Premium, Luxury, Ultimate, L, 5.4L, Premiere, Select (Base, L), Reserve (Base, L), Black Label (Base, L) | 1997-2020, 9999    | <a href="#">15</a>                            |
| 422          | Nautilus              | Black Label Edition, Reserve, Select                                                                               | 2019-20,9999       | <a href="#">15</a>                            |
| 423          | Aviator               | Reserve, Black Label Edition                                                                                       | 2020               | <a href="#">15</a>                            |
| 481          | Blackwood             | --                                                                                                                 | 2002               | <a href="#">34</a>                            |
| 482          | Mark LT               | 2WD, 4WD                                                                                                           | 2006-08,9999       | <a href="#">34</a>                            |
| 498          | Other (light truck)   | --                                                                                                                 | 1997-2020, 9999    | <a href="#">14,15,19</a> , <a href="#">34</a> |
| 499          | Unknown (light truck) | --                                                                                                                 | 1997-2020, 9999    | <a href="#">14,15,19</a> , <a href="#">49</a> |

#### UNKNOWN

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|--------------------|-----------------|--------------------|------------------------|
| 999          | Unknown (LINCOLN)  | --              | 1990-2020, 9999    | <a href="#">49</a>     |

#### **NCSA MAKE: Mazda (41) (MAZD)**

##### AUTOMOBILES

| <b>Codes</b> | <b>NCSA Models</b>        | <b>Includes</b>                               | <b>Model Years</b> | <b>NCSA Body Types</b>         |
|--------------|---------------------------|-----------------------------------------------|--------------------|--------------------------------|
| 031          | RX2                       | --                                            | 1970-74,9999       | <a href="#">02,04,06,08,09</a> |
| 032          | RX3                       | --                                            | 1970-78,9999       | <a href="#">02,04,06,08,09</a> |
| 033          | RX4                       | --                                            | 1974-78,9999       | <a href="#">02,04,06,08,09</a> |
| 034          | RX7                       | S, GS, GSL, SE                                | 1979-96,9999       | <a href="#">01-03,09</a>       |
| 035          | 323/GLC/Protégé/Protégé 5 | DX, Protégé (1990-on), DX, LX, ES, Mazdaspeed | 1977-2003, 9999    | <a href="#">03-07,09</a>       |
| 036          | Cosmo                     | --                                            | 1976-78,9999       | <a href="#">02</a>             |
| 037          | 626                       | GT, GS, GSL, SE, DX, LX, ES                   | 1979-2002, 9999    | <a href="#">02,04,05,08,09</a> |
| 038          | 808                       | --                                            | 1972-77,9999       | <a href="#">02,04,06,08,09</a> |

| <b>Codes</b> | <b>NCSA Models</b>                              | <b>Includes</b>                                                                                                                                 | <b>Model Years</b>       | <b>NCSA Body Types</b>         |
|--------------|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------------|
| 039          | Mizer                                           | --                                                                                                                                              | 1976                     | <a href="#">02,04,06,08,09</a> |
| 040          | R-100                                           | --                                                                                                                                              | 1950-72,9999             | <a href="#">02</a>             |
| 041          | 616/618                                         | --                                                                                                                                              | 1968-72,9999             | <a href="#">02,04,08,09</a>    |
| 042          | 1800                                            | --                                                                                                                                              | 1968-72,9999             | <a href="#">04,06,09</a>       |
| 043          | 929                                             | --                                                                                                                                              | 1988-95,9999             | <a href="#">04</a>             |
| 044          | MX-6                                            | Turbo, LS, M-Edition                                                                                                                            | 1988-97,9999             | <a href="#">02</a>             |
| 045          | Miata/MX-5                                      | Miata (LS), SE, SV, Mazdaspeed, Sport, Touring, Grand Touring, Club, Special, Special Edition, PRHT, RF (Club, Grand Touring), 30th Anniversary | 1990-97; 1999-2019, 9999 | <a href="#">01</a>             |
| 046          | MX-3                                            | GS                                                                                                                                              | 1992-95,9999             | <a href="#">02</a>             |
| 047          | Millenia                                        | L, S, P, Millennium Edition                                                                                                                     | 1995-02,9999             | <a href="#">04</a>             |
| 048          | MP3                                             | Limited Edition                                                                                                                                 | 2001                     | <a href="#">04</a>             |
| 049          | RX-8                                            | Sport AT, Shinka, Touring, Grand Touring, R3, Plus                                                                                              | 2003-14,9999             | <a href="#">04</a>             |
| 050          | Mazda6                                          | Grand Touring, Sport, Mazdaspeed6, Grand Sport, SV, Plus, Touring, Skyactiv-D, Touring, Grand Touring Reserve, Signature                        | 2003-20,9999             | <a href="#">04-06,09</a>       |
| 051          | Mazda3                                          | i (Sport, Touring, Grand Touring, SV), s (Touring, Grand Touring), SP23, Value, Mazdaspeed3, Touring 2.5, Select, Preferred, Premium            | 2004-20, 9999            | <a href="#">04-06,09</a>       |
| 052          | Mazda5                                          | Sport, Touring, Grand Touring                                                                                                                   | 2006-10, 2012-15, 9999   | <a href="#">06</a>             |
| 053          | CX-7                                            | i, s, Sport, Touring, Grand Touring, SV                                                                                                         | 2007-12, 9999            | <a href="#">05</a>             |
| 054          | CX-9 (2007-12 only. For 2013 on see model 421.) | Sport, Touring, Grand Touring                                                                                                                   | 2007-12, 9999            | <a href="#">06</a>             |
| 055          | Mazda2                                          | Sport, Touring                                                                                                                                  | 2011-15, 9999            | <a href="#">05</a>             |
| 056          | CX-3                                            | Sport, Touring, Grand Touring                                                                                                                   | 2016-19, 9999            | <a href="#">05</a>             |
| 398          | Other (automobile)                              | 1200, 616                                                                                                                                       | 1950-2020, 9999          | <a href="#">02,03,09</a>       |

| <b>Codes</b> | <b>NCSA Models</b>   | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|----------------------|-----------------|--------------------|------------------------|
| 399          | Unknown (automobile) | --              | 1950-2020, 9999    | <a href="#">01-09</a>  |

## **LIGHT TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b>                                     | <b>Includes</b>                                                                                          | <b>Model Years</b>     | <b>NCSA Body Types</b>                            |
|--------------|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------------|---------------------------------------------------|
| 401          | Navajo                                                 | --                                                                                                       | 1991-94,9999           | <a href="#">14</a>                                |
| 402          | Tribute                                                | DX, DX-V6, LX-V6, ES-V6, ES, LX, i, s, Hybrid, Sport, Grand Touring, Touring                             | 2001-12,9999           | <a href="#">14</a>                                |
| 403          | CX-5                                                   | Sport, Touring, Grand Touring, Diesel, Reserve, Signature, Skyactiv-D                                    | 2013-19,9999           | <a href="#">14</a>                                |
| 421          | CX-9 (2013 on. See model 054 for 2007-12 model years.) | Sport, Touring, Grand Touring, Signature                                                                 | 2013-19,9999           | <a href="#">15</a>                                |
| 441          | MPV                                                    | LX, ES, DX, All Sport, LX-SV                                                                             | 1989-98; 2000-06, 9999 | <a href="#">20</a>                                |
| 471          | Pickup/ B-Series Pickup                                | B2000, B2200, B2300, SE-5, LX, SE (2WD, 4WD), SX, DS, Cab Plus, B2500/B2600/ B3000/B4000, Dual Sport Cab | 1972-2009, 9999        | <a href="#">34,39, 40, 42, 48</a>                 |
| 498          | Other (light truck)                                    | --                                                                                                       | 1965-2019, 9999        | <a href="#">14,15,19, 20, 34,39, 40, 42, 48</a>   |
| 499          | Unknown (light truck)                                  | --                                                                                                       | 1965-2019, 9999        | <a href="#">14,15,19, 20, 34,39,40, 42, 48,49</a> |

## **UNKNOWN**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|--------------------|-----------------|--------------------|------------------------|
| 999          | Unknown (MAZDA)    | --              | 1950-2019, 9999    | <a href="#">49</a>     |

## **NCSA MAKE: Mercedes Benz (42) (MERZ)**

### **AUTOMOBILES**

| <b>Codes</b> | <b>NCSA Models</b>                                                     | <b>Includes</b>                                                                                                                                                | <b>Model Years</b> | <b>NCSA Body Types</b>                |
|--------------|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------------|
| 031          | 200/220/230/240/<br>250/260/280/300/<br>320/420                        | Sedan and 5-passenger “C” only; SE, CD, D, SD, TD, TE, CE, E; DOES NOT include 280 SE (1975 on) or 300 SD-see code 037; C-Class up to 1993, E-Class up to 1997 | 1950-97,9999       | <a href="#">01,02,04,06,08,09, 12</a> |
| 032          | 230/280 SL                                                             | 2-seater only                                                                                                                                                  | 1964-71,9999       | <a href="#">01,02,09</a>              |
| 033          | 300/350/380/450/500/<br>560 SL                                         | 2-seater only; 300/500 SL (1990 on)                                                                                                                            | 1972-94,9999       | <a href="#">01,02,09</a>              |
| 034          | 350/380/420/450/560<br>SLC                                             | --                                                                                                                                                             | 1973-94,9999       | <a href="#">02</a>                    |
| 035          | 280/300 SEL                                                            | --                                                                                                                                                             | 1967-72,9999       | <a href="#">02,04,08,09</a>           |
| 036          | 300/380/420/450/500/<br>560/SEL & 500/560,<br>600 SEC & 300/350<br>SDL | --                                                                                                                                                             | 1973-94,9999       | <a href="#">02,04,06,08,09</a>        |
| 037          | 300/380/450 SE                                                         | 280 S, 280 SE (1975 on), 300 SD Sedan/350 SD                                                                                                                   | 1968-94,9999       | <a href="#">01,02,04,08,09</a>        |
| 038          | 600, 6.9 Sedan                                                         | Pullman                                                                                                                                                        | 1978-87,9999       | <a href="#">04, 12</a>                |
| 039          | 190                                                                    | D, E, 2.3, 2.5                                                                                                                                                 | 1984-93,9999       | <a href="#">04,06,09</a>              |
| 040          | 300                                                                    | CE Cabriolet                                                                                                                                                   | 1993-94,9999       | <a href="#">01</a>                    |
| 041          | 400/500E                                                               | --                                                                                                                                                             | 1992-94,9999       | <a href="#">01,02,04,06,08,09</a>     |
| 042          | C Class (94 on)                                                        | C220/C230 (Kompressor)/<br>C240/250/280/300/320/350/<br>400 (W)/C32/ 36/43/55/63/63S<br>AMG, Sport, Luxury, 450<br>(AMG), 350e Plug-In Hybrid                  | 1994-2020,<br>9999 | <a href="#">01,02,04,06,08,09</a>     |
| 043          | S Class (95 on)                                                        | S320/350/400(V)/420/430/<br>450/500/550/560 (V/e/<br>Maybach)/600(V), 55/ 63/65<br>(AMG), Hybrid, 4-M, S600<br>(Maybach)                                       | 1995-2020,<br>9999 | <a href="#">01,02,04,08,09</a>        |
| 044          | SL Class (95 on)                                                       | SL320/400/450/500/550(R)/<br>600(R), Silver Arrow Edition,<br>SL55/63/65 AMG                                                                                   | 1995-2020,<br>9999 | <a href="#">01,02,09</a>              |

| <b>Codes</b> | <b>NCSA Models</b>   | <b>Includes</b>                                                                                                   | <b>Model Years</b> | <b>NCSA Body Types</b>            |
|--------------|----------------------|-------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------|
| 045          | SLK                  | SLK230/250/280/300/320/350 (Sport), Kompressor, SLK 32/55 (AMG), Special Edition                                  | 1998-2016, 9999    | <a href="#">01</a>                |
| 046          | CL Class             | CL500/550/600, CL55/63/ 65 AMG                                                                                    | 1998-2014, 9999    | <a href="#">02</a>                |
| 047          | CLK                  | CLK 320/350/430/500/550, Cabriolet, CLK 55/63/65 AMG                                                              | 1998-2009, 9999    | <a href="#">01,02,09</a>          |
| 048          | E Class ('97 on)     | 250/300/TD, 320/350 (4-M, A, C, S, W)/400/420/430/450/500/550 (4-M, A, C, W), 43/53/55/63/63S AMG, 320CDI, Hybrid | 1996-2020, 9999    | <a href="#">01,02,04,06,08,09</a> |
| 049          | SLR                  | McLaren, 722 Edition                                                                                              | 2005-10,9999       | <a href="#">01,02,09</a>          |
| 050          | R Class              | R320/350/500, R63 AMG                                                                                             | 2006-12,9999       | <a href="#">06</a>                |
| 051          | CLS Class            | CLS400/450/500/550, CLS 53/55/63/ 63S AMG                                                                         | 2006-20,9999       | <a href="#">04</a>                |
| 052          | SLS Class            | AMG (C/GT) Final Edition                                                                                          | 2011-15,9999       | <a href="#">01,02,09</a>          |
| 053          | B Class              | 250e                                                                                                              | 2014-17,9999       | <a href="#">05</a>                |
| 054          | CLA Class            | 250, 45 (AMG)                                                                                                     | 2014-20,9999       | <a href="#">04</a>                |
| 055          | GLA Class            | 250, 45 (AMG)                                                                                                     | 2015-20,9999       | <a href="#">05</a>                |
| 056          | AMG GT S             | 450, GT C, GT R                                                                                                   | 2016-20,9999       | <a href="#">01, 02, 04, 09</a>    |
| 057          | SLC Series           | 300, 43 (AMG)                                                                                                     | 2017-19,9999       | <a href="#">01</a>                |
| 058          | A-Class              | 220, 35                                                                                                           | 2019-20,9999       | <a href="#">04</a>                |
| 398          | Other (automobile)   | --                                                                                                                | 1946-2020, 9999    | <a href="#">01-09, 10-12</a>      |
| 399          | Unknown (automobile) | --                                                                                                                | 1946-2020, 9999    | <a href="#">01-09, 10-12</a>      |

## LIGHT TRUCKS

| Codes | NCSA Models                                                          | Includes                                                                           | Model Years            | NCSA Body Types                                             |
|-------|----------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------|-------------------------------------------------------------|
| 401   | M/ML Class                                                           | ML250/320/350/400/430/450/500/550, 55/63 AMG Special Edition, Hybrid, 4-M          | 1998-2015, 9999        | <a href="#">14</a>                                          |
| 402   | G Class                                                              | G500/550, G55/63/65 (AMG)                                                          | 2002-19,9999           | <a href="#">14</a>                                          |
| 403   | GLK Class                                                            | 220/250/280/320/350                                                                | 2010-15,9999           | <a href="#">14</a>                                          |
| 404   | GLE Class (For 2016-2018 only. For model years 2019 on, see 42-423.) | 300d, 350/550e, 43/63/63S (AMG), Coupe (450, AMG - 43/63S)                         | 2016-2018, 9999        | <a href="#">14</a>                                          |
| 405   | GLC Class                                                            | 300, 43/63/63S (AMG), Coupe (300, AMG 43), 350e                                    | 2016-2020, 9999        | <a href="#">14</a>                                          |
| 406   | GLB Class                                                            | 250                                                                                | 2020                   | <a href="#">14</a>                                          |
| 421   | GL Class                                                             | GL320/350/450/550, GL63 (AMG)                                                      | 2007-16,9999           | <a href="#">15</a>                                          |
| 422   | GLS Class                                                            | 450, 550, 63 (AMG)                                                                 | 2017-20, 9999          | <a href="#">15</a>                                          |
| 423   | GLE Class (For 2019 on. For model years 2016-2018, see 42-404.)      | 400, 43/63/63S AMG                                                                 | 2019-20, 9999          | <a href="#">15</a>                                          |
| 461   | Sprinter                                                             | (for 2004-2010 see “ <a href="#">Freightliner</a> ” and “ <a href="#">Dodge</a> ”) | 2002-03, 2010-19, 9999 | <a href="#">21,22,28,29</a>                                 |
| 462   | Metris                                                               | Cargo, Passenger                                                                   | 2016-19, 9999          | <a href="#">20</a>                                          |
| 470   | Van derivative                                                       | Kurbstar                                                                           | 1982-2019, 9999        | <a href="#">28,29</a>                                       |
| 498   | Other (light truck)                                                  | --                                                                                 | 1946-2020, 9999        | <a href="#">14-16,19, 21,22, 40,41, 42, 45,48</a>           |
| 499   | Unknown (light truck)                                                | --                                                                                 | 1946-2020, 9999        | <a href="#">14-16,19, 21,22, 28,29, 40,41, 42, 45,48,49</a> |

## MOTOR HOME

| Codes | NCSA Models | Includes       | Model Years            | NCSA Body Types       |
|-------|-------------|----------------|------------------------|-----------------------|
| 850   | Motor Home  | Sprinter based | 2002-03, 2010-19, 9999 | <a href="#">65,73</a> |

## MEDIUM/HEAVY TRUCKS

| Codes | NCSA Models                               | Includes | Model Years            | NCSA Body Types                            |
|-------|-------------------------------------------|----------|------------------------|--------------------------------------------|
| 870   | Medium/Heavy Van-Based Vehicle            | Sprinter | 2002-03, 2010-19, 9999 | <a href="#">55</a> , <a href="#">61-64</a> |
| 881   | Medium/Heavy - CBE                        | --       | 1965-91,9999           | <a href="#">60-64,78</a>                   |
| 882   | Medium/Heavy - COE low entry              | --       | 1965-91,9999           | <a href="#">60-64,78</a>                   |
| 883   | Medium/Heavy - COE high entry             | --       | 1965-91,9999           | <a href="#">60-64,78</a>                   |
| 884   | Medium/Heavy - Unknown engine location    | --       | 1965-91,9999           | <a href="#">60-64,78</a>                   |
| 890   | Medium/Heavy - COE entry position unknown | --       | 1965-91,9999           | <a href="#">60-64,78</a>                   |
| 898   | Other (medium/heavy truck)                | --       | 1965-91,9999           | <a href="#">60-64,78</a>                   |

## BUSES

| Codes | NCSA Models                            | Includes | Model Years  | NCSA Body Types             |
|-------|----------------------------------------|----------|--------------|-----------------------------|
| 981   | Bus**: Conventional (Engine out front) | --       | 1965-91,9999 | <a href="#">50-52,58,59</a> |
| 988   | Other (bus)                            | --       | 1965-91,9999 | <a href="#">50-52,58,59</a> |
| 989   | Unknown (bus)                          | --       | 1965-91,9999 | <a href="#">92-93,97</a>    |

**\*\*Use code “989” (bus) if the frontal plane or the engine location is unknown.**

## OTHER AND UNKNOWN VEHICLE

| Codes | NCSA Models             | Includes | Model Years     | NCSA Body Types                                              |
|-------|-------------------------|----------|-----------------|--------------------------------------------------------------|
| 998   | Other (vehicle)         | --       | 1965-2020, 9999 | <a href="#">49</a> , <a href="#">79</a> , <a href="#">99</a> |
| 999   | Unknown (MERCEDES BENZ) | --       | 1950-2020, 9999 | <a href="#">49</a> , <a href="#">79</a> , <a href="#">99</a> |

**NCSA MAKE: Mercury (14) (MERC)****(Merkur: See “56”)****AUTOMOBILES**

| <b>Codes</b> | <b>NCSA Models</b>                                                                  | <b>Includes</b>                                                                                                                                                                                              | <b>Model Years</b>      | <b>NCSA Body Types</b>            |
|--------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------------------|
| 002          | Cyclone                                                                             | GT, CJ, Spoiler                                                                                                                                                                                              | 1964-70,9999            | <a href="#">01,02,09</a>          |
| 003          | Capri-domestic (for 1967 see 008)                                                   | RS, Turbo, GS, Black Magic, 5.0                                                                                                                                                                              | 1979-86; 1989-94, 9999  | <a href="#">01,03,09</a>          |
| 004          | Cougar (For 1967-1997. See 038 for 1999-2002) /XR7 (1967-1997)                      | Villager, Brougham, RS, LS, GS, Eliminator, XR-7                                                                                                                                                             | 1967-97,9999            | <a href="#">01,02,04,06,08,09</a> |
| 006          | Marquis/Monterey (car version; for van version 2004 on see code 444) /Grand Marquis | Marauder (prior to 2003, 2003 on see code 039), Montclair, X-100, Parklane, S-55, Custom, Brougham Grand Marquis (GS, LS), Medalist, Turnpike, Colony Park, GS, LS, LSE, Limited Edition, Palm Beach Edition | 1952-2011, 9999         | <a href="#">01,02,04,06,08,09</a> |
| 008          | Comet                                                                               | Caliente, Capri (1967), GT, Voyager, 202, 404, Villager Wagon                                                                                                                                                | 1960-79,9999            | <a href="#">01,02,04,06,08,09</a> |
| 009          | Bobcat                                                                              | Runabout, Villager Wagon                                                                                                                                                                                     | 1975-80,9999            | <a href="#">03,06,09</a>          |
| 010          | Montego (prior to 1976; for 2005 on see code 020)                                   | GT, MX, Villager, Brougham, Comet (1968-1970)                                                                                                                                                                | 1968-76,9999            | <a href="#">01,02,04,06,08,09</a> |
| 011          | Monarch                                                                             | Ghia                                                                                                                                                                                                         | 1975-80,9999            | <a href="#">02,04,08,09</a>       |
| 012          | Zephyr                                                                              | GS, Z-7                                                                                                                                                                                                      | 1978-83,9999            | <a href="#">02,04,06,08,09</a>    |
| 013          | Lynx/LN7                                                                            | L, LS, GS, RS, XR-3                                                                                                                                                                                          | 1981-87,9999            | <a href="#">03,05-07,09</a>       |
| 015          | Topaz                                                                               | L, LS, GS, 4x4, XR5, LTS, Sport                                                                                                                                                                              | 1984-94,9999            | <a href="#">02,04,08,09</a>       |
| 017          | Sable                                                                               | LS, GS (Premium), GS Plus, Platinum Edition, Premier, Base                                                                                                                                                   | 1986-2005, 2008-09,9999 | <a href="#">04,06,09</a>          |
| 020          | Montego (2005 on)                                                                   | Luxury, Premier                                                                                                                                                                                              | 2005-07,9999            | <a href="#">04</a>                |
| 021          | Milan                                                                               | I-4, V6 (Base/Premier), Hybrid                                                                                                                                                                               | 2006-11,9999            | <a href="#">04</a>                |
| 031          | Capri-foreign                                                                       | Capri II, 2+2                                                                                                                                                                                                | 1970-77,9999            | <a href="#">03</a>                |
| 033          | Pantera-foreign                                                                     | deTomaso                                                                                                                                                                                                     | 1972-74,9999            | <a href="#">01-09, 10</a>         |
| 036          | Tracer                                                                              | L, GL, LTS, GS, LS                                                                                                                                                                                           | 1988-99,9999            | <a href="#">03-06,09</a>          |



| <b>Codes</b> | <b>NCSA Models</b>   | <b>Includes</b>            | <b>Model Years</b> | <b>NCSA Body Types</b>    |
|--------------|----------------------|----------------------------|--------------------|---------------------------|
| 037          | Mystique             | GS, LS                     | 1995-2000, 9999    | <a href="#">04</a>        |
| 038          | Cougar (1999-2002)   | V-6, I-4, S, Sport, CR, XR | 1999-2002, 9999    | <a href="#">02,03,09</a>  |
| 039          | Marauder             | M75, 300A                  | 2003-04,9999       | <a href="#">04</a>        |
| 398          | Other (automobile)   | --                         | 1962-2011, 9999    | <a href="#">01-09, 10</a> |
| 399          | Unknown (automobile) | --                         | 1952-2011, 9999    | <a href="#">01-09, 10</a> |

### **LIGHT TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b>                                                 | <b>Includes</b>                                     | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|--------------------------------------------------------------------|-----------------------------------------------------|--------------------|------------------------|
| 401          | Mountaineer                                                        | Convenience, Luxury, Premier (4.0/4.6L)             | 1996-2010, 9999    | <a href="#">14</a>     |
| 402          | Mariner                                                            | Convenience, Luxury, Premier, Hybrid                | 2005-11,9999       | <a href="#">14</a>     |
| 443          | Villager                                                           | LS, GS, Nautica, Estate, Sport, Sport Plus, Popular | 1993-2002, 9999    | <a href="#">20</a>     |
| 444          | Monterey (van version; for car version prior to 2004 see code 006) | Convenience, Luxury, Premier                        | 2004-07,9999       | <a href="#">20</a>     |
| 498          | Other (light truck)                                                | --                                                  | 1993-2011, 9999    | <a href="#">14, 20</a> |
| 499          | Unknown (light truck)                                              | --                                                  | 1993-2011, 9999    | <a href="#">49</a>     |

### **UNKNOWN**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|--------------------|-----------------|--------------------|------------------------|
| 999          | Unknown (MERCURY)  | --              | 1950-2011, 9999    | <a href="#">49</a>     |

**NCSA MAKE: Merkur (56) (MERK)****AUTOMOBILES**

| <b>Codes</b> | <b>NCSA Models</b>   | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>      |
|--------------|----------------------|-----------------|--------------------|-----------------------------|
| 031          | XR4Ti                | Turbo           | 1985-89,9999       | <a href="#">03</a>          |
| 032          | Scorpio              | Turbo           | 1988-90,9999       | <a href="#">05</a>          |
| 398          | Other (automobile)   | --              | 1985-90,9999       | <a href="#">03-05,07,09</a> |
| 399          | Unknown (automobile) | --              | 1985-90,9999       | <a href="#">03-05,07,09</a> |

**NCSA MAKE: MG (43) (MG)****AUTOMOBILES**

| <b>Codes</b> | <b>NCSA Models</b>     | <b>Includes</b>                         | <b>Model Years</b> | <b>NCSA Body Types</b>      |
|--------------|------------------------|-----------------------------------------|--------------------|-----------------------------|
| 031          | Midget                 | GAN I/II/III/4/5, MK I, MK II, MKIII    | 1962-80,9999       | <a href="#">01</a>          |
| 032          | MGB                    | MK I/II/IV, 600 Limited, V-8            | 1955-80,9999       | <a href="#">01,02,09</a>    |
| 033          | MGB                    | GT, MK III                              | 1967-74,9999       | <a href="#">02,03,09</a>    |
| 034          | MGA                    | 1500, 1600, YT, TC, TD/II, MK I/II, A   | 1945-62,9999       | <a href="#">01,02,09</a>    |
| 035          | TA/TC/TD/TF            | Y-Type, 430, TDC                        | 1945-62,9999       | <a href="#">01,02,09</a>    |
| 036          | MGC                    | GT                                      | 1968-69,9999       | <a href="#">01,02,09</a>    |
| 037          | Magnette/Sports Sedans | ZB, ZA/YA/YB, MK III, MK IV, 1100, 1300 | 1945-66,9999       | <a href="#">02,04,08,09</a> |
| 398          | Other (automobile)     | --                                      | 1945-80,9999       | <a href="#">01-04,08,09</a> |
| 399          | Unknown (automobile)   | --                                      | 1945-80,9999       | <a href="#">01-04,08,09</a> |

## NCSA MAKE: Mitsubishi (52) (MITS)

### AUTOMOBILES

| Codes | NCSA Models                                                          | Includes                                                                                                                       | Model Years     | NCSA Body Types               |
|-------|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------------------|
| 031   | Starion                                                              | 2+2, LE, Turbo, ESI                                                                                                            | 1982-89,9999    | <a href="#">03</a>            |
| 032   | Tredia                                                               | L, LS, Turbo                                                                                                                   | 1982-88,9999    | <a href="#">04</a>            |
| 033   | Cordia                                                               | L, Turbo                                                                                                                       | 1982-88,9999    | <a href="#">03</a>            |
| 034   | Galant                                                               | ECS, Sigma (through '88), ES, LS, DE, GTS-V6, I-4, Special Edition, Ralliart, Sport Edition, SE, FE                            | 1985-2012, 9999 | <a href="#">04</a>            |
| 035   | Mirage (For 1985-2002. For 2014 on use model 048.)                   | L, Turbo, GS, LS, DS, DE, ES                                                                                                   | 1985-2002, 9999 | <a href="#">02-04, 08, 09</a> |
| 036   | Precis                                                               | --                                                                                                                             | 1987-94,9999    | <a href="#">03,05,07,09</a>   |
| 037   | Eclipse                                                              | GS, DOHL, Turbo, GS-T, GSX, Spyder, RS, GT, GTS, Remix Edition, SE, Sport, Special Edition                                     | 1990-2012, 9999 | <a href="#">01-03, 09</a>     |
| 038   | Sigma                                                                | (Prior '89 see 034)                                                                                                            | 1989-90,9999    | <a href="#">04</a>            |
| 039   | 3000 GT                                                              | SL, VR-4, Spyder                                                                                                               | 1991-99,9999    | <a href="#">01-03, 09</a>     |
| 040   | Diamante                                                             | LS, ES, LE, VR-X                                                                                                               | 1992-2004, 9999 | <a href="#">04, 06, 09</a>    |
| 041   | iMiEV (For 2018 on, code as vehicle model 398)                       | ES, SE                                                                                                                         | 2012-17,9999    | <a href="#">05</a>            |
| 045   | Expo Wagon                                                           | LRV, Sport                                                                                                                     | 1992-95,9999    | <a href="#">06</a>            |
| 046   | Lancer/Lancer Sportback/Lancer Evolution                             | ES (2.0, 2.4), LS, O-Z, Rally, Evolution VII/VIII/IX/X, Sport, Ralliart LS, MR Edition, DE, GSR, GTS, Touring, SE, GT, SEL, FE | 2002-17,9999    | <a href="#">04-06, 09</a>     |
| 047   | Outlander (For 2003-2018 only. For model years 2019 on, see 52-404.) | ES, LS, SE, XLS, Limited, GT, Sport, SE-S, GT-S, SEL, GT 3.0 S-AWC, Plug-In Hybrid, PHEV                                       | 2003-18,9999    | <a href="#">05, 06, 09</a>    |
| 048   | Mirage (2014 on. For 1985-2002 use 52-035.)                          | DE, ES, LE, RF, SE, GT, G4 (ES, RF, SE)                                                                                        | 2014-19,9999    | <a href="#">04, 05, 09</a>    |
| 398   | Other (automobile)                                                   | 500, 1000, Debonair, Galant (1969), iMEV (2018 on)                                                                             | 1960-2019, 9999 | <a href="#">01-09</a>         |

| <b>Codes</b> | <b>NCSA Models</b>   | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|----------------------|-----------------|--------------------|------------------------|
| 399          | Unknown (automobile) | --              | 1960-2019, 9999    | <a href="#">01-09</a>  |

### **LIGHT TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b>                                              | <b>Includes</b>                                           | <b>Model Years</b> | <b>NCSA Body Types</b>                       |
|--------------|-----------------------------------------------------------------|-----------------------------------------------------------|--------------------|----------------------------------------------|
| 401          | Montero/Montero Sport                                           | Sport, LS, SR, XLS, ES, LTD, 20th Anniversary Edition, SE | 1983-2006, 9999    | <a href="#">14</a>                           |
| 402          | Endeavor                                                        | LS, SE, XLS, Limited                                      | 2004-12,9999       | <a href="#">14</a>                           |
| 403          | Eclipse Cross                                                   | ES, LE, SE, SEL                                           | 2018-20,9999       | <a href="#">14</a>                           |
| 404          | Outlander (For 2019 on. For model years 2003-2018, see 52-047.) | ES, LE, SE, SEL, GT, Sport (ES, LE, SP, SE, GT), PHEV     | 2019-20,9999       | <a href="#">14</a>                           |
| 441          | Mini-Van                                                        | LS                                                        | 1987-90,9999       | <a href="#">20</a>                           |
| 471          | Pickup                                                          | Mighty Max, SPX, 4x4                                      | 1983-96,9999       | <a href="#">34,39, 40, 42, 48</a>            |
| 472          | Raider                                                          | LS, Durocross, XLS                                        | 2006-10,9999       | <a href="#">34</a>                           |
| 498          | Other (light truck)                                             | --                                                        | 1983-2020, 9999    | <a href="#">14, 20, 34,39, 40, 42, 48</a>    |
| 499          | Unknown (light truck)                                           | --                                                        | 1983-2020, 9999    | <a href="#">14, 20, 34,39, 40, 42, 48,49</a> |

### **MEDIUM/HEAVY TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b>           | <b>Includes</b>     | <b>Model Years</b> | <b>NCSA Body Types</b>            |
|--------------|------------------------------|---------------------|--------------------|-----------------------------------|
| 882          | Medium/Heavy - COE low entry | FUSO FE/FG/FH/FK/FM | 1983-2020, 9999    | <a href="#">60-64,66,71,72,78</a> |
| 898          | Other (medium/heavy truck)   | --                  | 1983-2020, 9999    | <a href="#">60-64,66,71,72,78</a> |

## BUSES

| Codes | NCSA Models                            | Includes | Model Years     | NCSA Body Types             |
|-------|----------------------------------------|----------|-----------------|-----------------------------|
| 981   | Bus**: Conventional (Engine out front) | --       | 1981-2004, 9999 | <a href="#">50-52,58,59</a> |
| 982   | Bus: Front engine, Flat Front          | --       | 1981-2004, 9999 | <a href="#">50-52,58,59</a> |
| 983   | Bus: Rear engine, Flat front           | --       | 1981-2004, 9999 | <a href="#">50-52,58,59</a> |
| 988   | Other (bus)                            | --       | 1981-2004, 9999 | <a href="#">50-52,58,59</a> |
| 989   | Unknown (bus)                          | --       | 1981-2004, 9999 | <a href="#">50-52,58,59</a> |

**\*\*Use code “989” (bus) if the frontal plane or the engine location is unknown**

## UNKNOWN

| Codes | NCSA Models          | Includes | Model Years     | NCSA Body Types            |
|-------|----------------------|----------|-----------------|----------------------------|
| 999   | Unknown (MITSUBISHI) | --       | 1983-2020, 9999 | <a href="#">49, 79, 99</a> |

## ***NCSA MAKE: Nissan/Datsun (35) (NISS) - (DATS)***

### AUTOMOBILES

| Codes | NCSA Models   | Includes                              | Model Years           | NCSA Body Types                |
|-------|---------------|---------------------------------------|-----------------------|--------------------------------|
| 031   | F-10          | --                                    | 1977-78,9999          | <a href="#">03,05-07,09</a>    |
| 032   | 200SX/240SX   | SE, SE-R, LE                          | 1977-98,9999          | <a href="#">01-03,09</a>       |
| 033   | 210/1200/B210 | 110 series, Honeybee                  | 1971-82,9999          | <a href="#">02-04,06,08,09</a> |
| 034   | Z-car, ZX     | 240/260/280Z & ZX, 300 ZX, 2+2, Turbo | 1970-96,9999          | <a href="#">01-03,09</a>       |
| 035   | 310           | SPL                                   | 1979-82,9999          | <a href="#">02,03,05,07,09</a> |
| 036   | 510           | PL, WPL                               | 1968-73; 1978-81,9999 | <a href="#">02-09</a>          |
| 037   | 610           | PL, HL                                | 1973-76,9999          | <a href="#">02-04,06,08,09</a> |
| 038   | 710           | PL                                    | 1974-77,9999          | <a href="#">02-04,06,08,09</a> |

| <b>Codes</b> | <b>NCSA Models</b>                                                | <b>Includes</b>                                                                                                                                                                                                                                                      | <b>Model Years</b> | <b>NCSA Body Types</b>         |
|--------------|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------------|
| 039          | 810/Maxima                                                        | SE (Titanium Special), GXE, GLE, 2.5 (S/SR/SL/SV), 3.5SE/SL/SEL /S/SV/SR, Platinum Edition, Midnight Edition, Platinum Reserve                                                                                                                                       | 1977-2020, 9999    | <a href="#">04,06,09</a>       |
| 040          | Roadster                                                          | SPL311, SRL311, 1500, 1600, 2000, convertible, Fairlady                                                                                                                                                                                                              | 1950-70,9999       | <a href="#">01</a>             |
| 041          | 311/411                                                           | 1000, Bluebird, PL311/PL312/PL410/PL411/RL411                                                                                                                                                                                                                        | 1959-67,9999       | <a href="#">04,06,09</a>       |
| 042          | Stanza                                                            | XE                                                                                                                                                                                                                                                                   | 1982-93,9999       | <a href="#">03-07,09</a>       |
| 043          | Sentra                                                            | E, XE, GXE, S, SE, SE-R (Spec V), GLE, CA, 2.5LE, 1.8, 1.8S, 2.0/S/SL/SR, Special Edition, Platinum Edition, Spec-V, FE, SV, FE+S, Nismo, SR Turbo                                                                                                                   | 1982-2019, 9999    | <a href="#">02,04,06,08,09</a> |
| 044          | Pulsar                                                            | NX, EXA (1986 on)                                                                                                                                                                                                                                                    | 1983-90,9999       | <a href="#">02,03,05,07,09</a> |
| 045          | Micra                                                             | --                                                                                                                                                                                                                                                                   | 1987-94,9999       | <a href="#">01-05,07-09</a>    |
| 046          | NX 1600/2000                                                      | T-bar coupe                                                                                                                                                                                                                                                          | 1991-94,9999       | <a href="#">02,03,09</a>       |
| 047          | Altima                                                            | XE, GXE, SE, GLE, 2.5 S/SL/SR/SV, 3.5 S/SE/SL/SR/ SV, SE-R, Hybrid, SR (Base, Midnight), Platinum, Special Edition, Edition One, VC-Turbo                                                                                                                            | 1993-2020, 9999    | <a href="#">02,04,08,09</a>    |
| 048          | 350Z/370Z                                                         | Enthusiast, Performance, Touring, Track, Base, 35th Anniversary, Grand Touring, Nismo, 40th Anniversary, Sport, Sport Tech, Nismo Tech, Touring Sport, Heritage Edition (Magnetic Black, Pearl White, Deep Blue Pearl, and Chicane Yellow), 50th Anniversary Edition | 2003-20,9999       | <a href="#">01,02,03,09</a>    |
| 049          | Murano (For 2003-2018 only. For model years 2019 on, see 35-422.) | SE, SL, S, LE, SV, CrossCabriolet, Platinum, S Plus                                                                                                                                                                                                                  | 2003-18,9999       | <a href="#">01,06,09</a>       |

| <b>Codes</b> | <b>NCSA Models</b>                                               | <b>Includes</b>                                                                              | <b>Model Years</b> | <b>NCSA Body Types</b>    |
|--------------|------------------------------------------------------------------|----------------------------------------------------------------------------------------------|--------------------|---------------------------|
| 050          | Versa                                                            | 1.8S/SL, 1.6 S/SV/SL, Plus, Note (S, S Plus, SV, SR, SL), S Plus, SR, SV Special Edition     | 2007-20,9999       | <a href="#">04,05,09</a>  |
| 051          | Rogue (For 2008-2018 only. For model years 2019 on, see 35-404.) | S, SL, SV, Krom/Special Edition, Select (S), Sport                                           | 2008-18,9999       | <a href="#">06</a>        |
| 052          | Cube                                                             | 1.8 S/SL, Krom Edition, Indigo Edition                                                       | 2009-14,9999       | <a href="#">06</a>        |
| 053          | GT-R                                                             | Base, Premium, Black Edition, Track Edition, Nismo, 45th Anniversary, Pure, 50th Anniversary | 2009-20,9999       | <a href="#">02</a>        |
| 055          | Leaf                                                             | S, SL, SV, Plus                                                                              | 2011-19,9999       | <a href="#">05</a>        |
| 056          | Kicks                                                            | S, SV, SR                                                                                    | 2018-19,9999       | <a href="#">05</a>        |
| 398          | Other (automobile)                                               | 110 sedan, K110                                                                              | 1955-2020, 9999    | <a href="#">01-09, 10</a> |
| 399          | Unknown (automobile)                                             | --                                                                                           | 1955-2020, 9999    | <a href="#">01-09, 10</a> |

## **LIGHT TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b>                                          | <b>Includes</b>                                                                                                          | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------|------------------------|
| 401          | Pathfinder                                                  | MPV, 4X4, XE, LE, SE, S, Off-Road, FE+, SV, Silver Edition, Hybrid, SL (Tech, Premium), Platinum, SL, Rock Creek Edition | 1986-2020, 9999    | <a href="#">14</a>     |
| 402          | Xterra                                                      | XE (I-4), SE, (S/C), SE-R, Spec V, X, S, Off-Road, Pro-4X                                                                | 2000-15,9999       | <a href="#">14</a>     |
| 403          | Juke                                                        | S, SL, SV, Nismo, Nismo RS                                                                                               | 2011-18,9999       | <a href="#">14</a>     |
| 404          | Rogue (For 2019 on. For model years 2008-2018, see 35-051.) | S, SV, SL, Hybrid, Sport (S, SV, SL)                                                                                     | 2019-20,9999       | <a href="#">14</a>     |
| 421          | Pathfinder Armada                                           | LE, SE, SE Off-Road, Titanium, Platinum (Base/Reserve), SV, SL                                                           | 2004-20,9999       | <a href="#">15</a>     |

| <b>Codes</b> | <b>NCSA Models</b>                                              | <b>Includes</b>                                                                                                                            | <b>Model Years</b>                      | <b>NCSA Body Types</b>                                                                                                                     |
|--------------|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| 422          | Murano (For 2019 on.<br>For model years 2003-2018, see 35-056.) | S, SV, SL, Platinum                                                                                                                        | 2019-20,9999                            | <a href="#">15</a>                                                                                                                         |
| 441          | Van                                                             | XE, GXE                                                                                                                                    | 1987-91,9999                            | <a href="#">20</a>                                                                                                                         |
| 442          | Axxess                                                          | --                                                                                                                                         | 1989-90,9999                            | <a href="#">20</a>                                                                                                                         |
| 443          | Quest                                                           | XE, GXE, SE, GLE, 3.5 S/SE/SL, Special Edition, SV, LE, Platinum                                                                           | 1993-2002;<br>2004-09,<br>2011-17, 9999 | <a href="#">20</a>                                                                                                                         |
| 444          | Altra EV*                                                       | (electric vehicle*)                                                                                                                        | 1998-2005,<br>9999                      | <a href="#">20</a>                                                                                                                         |
| 446          | NV200/eNV200                                                    | S, SV, Taxi, Compact Cargo, Passenger (S, SL, SV), HD Cargo                                                                                | 2013-20,9999                            | <a href="#">20</a>                                                                                                                         |
| 461          | NV                                                              | 1500 (S, SV), 2500 HD (S, SV), 3500 (S, SV, SL), Passenger (S, SV, SL)                                                                     | 2011-20,9999                            | <a href="#">21,22,28,29</a>                                                                                                                |
| 471          | Nissan/Datsun Pickup (1955-1997)                                | 120,620 series, King Cab, Hardbody, XE, SE                                                                                                 | 1955-97,9999                            | <a href="#">34,39</a> , <a href="#">40</a> , <a href="#">42</a>                                                                            |
| 472          | Frontier (1998 on)                                              | XE, SE, S/C (Regular Cab, King Cab, Desert Runner, Crew Cab), Open-Sky, SVE, Nismo, Pro-4X, LE, SV, SL, S, Diesel Runner, Midnight Edition | 1998-2019,<br>9999                      | <a href="#">34,39</a> , <a href="#">40</a> , <a href="#">42</a>                                                                            |
| 473          | Titan (from 2004-06; see 481 for 2007 on)                       | E, LE, SE, XE                                                                                                                              | 2004-06,9999                            | <a href="#">34</a>                                                                                                                         |
| 481          | Titan (from 2007 on; see 473 for 2004-06)                       | LE, SE, XE, PRO-4X, S, SV, SL, XD (S, SV, SL, Platinum Reserve), Platinum, Platinum Reserve, Midnight Edition                              | 2007-19,9999                            | <a href="#">34</a>                                                                                                                         |
| 498          | Other (light truck)                                             | Patrol (1960)                                                                                                                              | 1955-2020,<br>9999                      | <a href="#">14,15</a> , <a href="#">19</a> , <a href="#">20,21,22</a> , <a href="#">34,39</a>                                              |
| 499          | Unknown (light truck)                                           | --                                                                                                                                         | 1955-2020,<br>9999                      | <a href="#">14,15,19</a> , <a href="#">20,29</a> , <a href="#">34,39</a> , <a href="#">40</a> , <a href="#">42</a> , <a href="#">48,49</a> |



**MEDIUM/HEAVY TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b>             | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>                     |
|--------------|--------------------------------|-----------------|--------------------|--------------------------------------------|
| 870          | Medium/Heavy Van-Based Vehicle | NV              | 2011-20,9999       | <a href="#">55</a> , <a href="#">61-64</a> |
| 883          | Medium/Heavy - COE high entry  | --              | 1986-2019, 9999    | <a href="#">60-64,66,71,72,78</a>          |
| 898          | Other (medium/heavy truck)     | --              | 1986-2019, 9999    | <a href="#">60-64,66,71,72,78</a>          |

**UNKNOWN**

| <b>Codes</b> | <b>NCSA Models</b>      | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>                                       |
|--------------|-------------------------|-----------------|--------------------|--------------------------------------------------------------|
| 999          | Unknown (NISSAN/DATSUN) | --              | 1950-2020, 9999    | <a href="#">49</a> , <a href="#">79</a> , <a href="#">99</a> |

***NCSA MAKE: Oldsmobile (21) (OLDS)*****AUTOMOBILES**

| <b>Codes</b> | <b>NCSA Models</b>   | <b>Includes</b>                                                                                                                      | <b>Model Years</b> | <b>NCSA Body Types</b>                     |
|--------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------------------------|
| 001          | Cutlass (RWD-only)   | Supreme, S, LS, Salon, Brougham Vista Cruiser, F85 (thru 1972), Rallye 350, Hurst Olds, 442, Calais (thru 1985), Classic (88)        | 1960-88,9999       | <a href="#">01,02,04,06,08,09</a>          |
| 002          | Delta 88/LSS         | Royale, Custom, Delta, Jetstar 88, Delmont 88, Starfire (Thru 1966), Custom Cruiser, Jetfire, Eighty-Eight (LS, 50th Anniv. Edition) | 1949-99,9999       | <a href="#">01-04,06,08,09</a>             |
| 003          | Ninety-Eight/Regency | Luxury, Futuramic, Brougham                                                                                                          | 1949-99,9999       | <a href="#">01,02,04,08,09</a>             |
| 005          | Toronado             | XS, XSR, Trofeo, Brougham Custom                                                                                                     | 1966-92,9999       | <a href="#">02</a>                         |
| 006          | Commercial Series    | Ambulance/Hearse                                                                                                                     | 1940-2003, 9999    | <a href="#">09</a> , <a href="#">10-12</a> |
| 012          | Starfire             | SX, GT, ST                                                                                                                           | 1975-80,9999       | <a href="#">01-03,09</a>                   |
| 015          | Omega                | X-body type, Brougham                                                                                                                | 1973-85,9999       | <a href="#">02-04,08,09</a>                |

| <b>Codes</b> | <b>NCSA Models</b>   | <b>Includes</b>                                                           | <b>Model Years</b>    | <b>NCSA Body Types</b>            |
|--------------|----------------------|---------------------------------------------------------------------------|-----------------------|-----------------------------------|
| 016          | Firenza              | S, LS, SX, Cruiser, GT                                                    | 1982-88,9999          | <a href="#">03-06,07,09</a>       |
| 017          | Ciera                | Cutlass Ciera (Base, S, SL, International), Cutlass Cruiser (Base, S, SL) | 1982-96,9999          | <a href="#">01,02,04,06,08,09</a> |
| 018          | Calais               | GT, ES, 500                                                               | 1985-91,9999          | <a href="#">02,04,08,09</a>       |
| 020          | Cutlass (FWD)        | Supreme (Excludes Ciera), GLS, GL                                         | 1988-99,9999          | <a href="#">01,02,04,08,09</a>    |
| 021          | Achieva/Alero        | SC, SL, GX, GL (1,2,4), GLS                                               | 1992-2004, 9999       | <a href="#">02,04,08,09</a>       |
| 022          | Aurora               | 3.5L, 4.0L, Collector's Series                                            | 1995-99; 2001-03,9999 | <a href="#">04</a>                |
| 023          | Intrigue             | GL, GX, GLS                                                               | 1997-2002, 9999       | <a href="#">02,04,08,09</a>       |
| 398          | Other (automobile)   | 66/68/70/90, Dynamic 70                                                   | 1930-2004, 9999       | <a href="#">01-09, 10-12</a>      |
| 399          | Unknown (automobile) | --                                                                        | 1930-2004, 9999       | <a href="#">01-09, 10-12</a>      |

#### **LIGHT TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b>    | <b>Includes</b>                                                      | <b>Model Years</b>       | <b>NCSA Body Types</b>     |
|--------------|-----------------------|----------------------------------------------------------------------|--------------------------|----------------------------|
| 401          | Bravada               | 2WD, 4WD, Collector's Series                                         | 1991-94; 1996-2004, 9999 | <a href="#">14</a>         |
| 441          | Silhouette            | GL, GLS, Series I, Series II, GS Premier Edition, Collector's Series | 1990-2004, 9999          | <a href="#">20</a>         |
| 499          | Unknown (light truck) | --                                                                   | 1932-2004, 9999          | <a href="#">14, 20, 49</a> |

#### **UNKNOWN**

| <b>Codes</b> | <b>NCSA Models</b>   | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|----------------------|-----------------|--------------------|------------------------|
| 999          | Unknown (OLDSMOBILE) | --              | 1932-2004, 9999    | <a href="#">49</a>     |

**NCSA MAKE: Peugeot (44) (PEUG)****AUTOMOBILES**

| <b>Codes</b> | <b>NCSA Models</b>   | <b>Includes</b>                                                            | <b>Model Years</b> | <b>NCSA Body Types</b>      |
|--------------|----------------------|----------------------------------------------------------------------------|--------------------|-----------------------------|
| 031          | 304                  | --                                                                         | 1971-72,9999       | <a href="#">04-06,09</a>    |
| 032          | 403                  | Station Wagon                                                              | 1955-67,9999       | <a href="#">01,04,06,09</a> |
| 033          | 404                  | Station Wagon                                                              | 1961-70,9999       | <a href="#">01,04,06,09</a> |
| 034          | 504/505              | STI, STX, Turbo, S, STI, STX, GL, GLS Liberte, Station Wagon, DSL, DL, GLX | 1970-91,9999       | <a href="#">04-06,09</a>    |
| 035          | 604                  | SL, D                                                                      | 1977-84,9999       | <a href="#">04</a>          |
| 036          | 405                  | Mi-16, DL, S                                                               | 1989-91,9999       | <a href="#">04,06,09</a>    |
| 398          | Other (automobile)   | 202, 203                                                                   | 1945-91,9999       | <a href="#">01-09</a>       |
| 399          | Unknown (automobile) | --                                                                         | 1945-91,9999       | <a href="#">01-09</a>       |

**MOTORCYCLES**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|--------------------|-----------------|--------------------|------------------------|
| 701          | 0-50 cc            | --              | 1965-83,9999       | <a href="#">81</a>     |
| 702          | 51-124cc           | --              | 1965-83,9999       | <a href="#">81</a>     |
| 709          | Unknown cc         | --              | 1965-83,9999       | <a href="#">81</a>     |

**UNKNOWN**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|--------------------|-----------------|--------------------|------------------------|
| 999          | Unknown (PEUGEOT)  | --              | 1960-91,9999       | <a href="#">99</a>     |

## **NCSA MAKE: Plymouth (09) (PLYM)**

### **AUTOMOBILES**

| <b>Codes</b> | <b>NCSA Models</b>                             | <b>Includes</b>                                                                            | <b>Model Years</b> | <b>NCSA Body Types</b>                   |
|--------------|------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------|------------------------------------------|
| 001          | Valiant/Scamp/Duster (thru 1976)               | 100, 200, Brougham, Signet, Custom, Special, 340, 360, Twister                             | 1960-76,9999       | <a href="#">01,02,04,06,08,09</a>        |
| 002          | Satellite/Belvedere                            | Belvedere I/II, GTX, Roadrunner (through 1974), Brougham, Sebring, Sebring Plus, Superbird | 1951-74,9999       | <a href="#">01,02,04,06,08,09, 10-12</a> |
| 003          | Fury (Fury Gran thru '78)                      | I, II, III, Roadrunner (1975), Suburban, Salon, VIP, Sport                                 | 1957-78,9999       | <a href="#">01,02,04,06,08,09</a>        |
| 004          | Gran Fury ('80 on)                             | Sedan, Coupe, Salon                                                                        | 1980-89,9999       | <a href="#">02,04,06,08,09</a>           |
| 005          | Barracuda                                      | Formula, S, 340, Gran Coupe, AAR, Cuda                                                     | 1964-74,9999       | <a href="#">01,02,09</a>                 |
| 006          | Volare'                                        | Custom, Premier, Roadrunner (1976 on), Police                                              | 1976-80,9999       | <a href="#">02,04,06,08,09</a>           |
| 007          | Caravelle                                      | Turbo, SE                                                                                  | 1985-88,9999       | <a href="#">04</a>                       |
| 008          | Horizon/Turismo                                | TC-3, Turismo 2.2, Miser, America, Custom, SE, Duster (1985 on), Expo                      | 1978-90,9999       | <a href="#">03,05,07,09</a>              |
| 011          | Reliant (K)                                    | SE, LE, Reliant America, Limited                                                           | 1981-89,9999       | <a href="#">02,04,06,08,09</a>           |
| 013          | Scamp- (car-based p/u)                         | GT, 2.2                                                                                    | 1982-84,9999       | <a href="#">10</a>                       |
| 017          | Sundance                                       | RS, Turbo, Sundance Duster, America                                                        | 1987-94,9999       | <a href="#">03,05,07,09</a>              |
| 019          | Acclaim                                        | LX, LE                                                                                     | 1989-95,9999       | <a href="#">04</a>                       |
| 020          | Neon (2002 and on, see <a href="#">Dodge</a> ) | Sport, Competition, Highline                                                               | 1995-2001, 9999    | <a href="#">02,04,08,09</a>              |
| 031          | Cricket                                        | --                                                                                         | 1971-72,9999       | <a href="#">04,06,09</a>                 |
| 032          | Arrow                                          | GS, GT, Fire Arrow                                                                         | 1976-80,9999       | <a href="#">03</a>                       |
| 033          | Sapporo                                        | all imported                                                                               | 1978-83,9999       | <a href="#">02,03,09</a>                 |
| 034          | Champ/Colt import (includes 2WD Vista)         | Turbo, Custom, GL, SE, DL, E Station wagon (1984 on)                                       | 1979-94,9999       | <a href="#">02-09</a>                    |
| 035          | Conquest                                       | TSI                                                                                        | 1984-87,9999       | <a href="#">03</a>                       |
| 037          | Laser                                          | RS, Turbo                                                                                  | 1989-94,9999       | <a href="#">02,03,09</a>                 |

| <b>Codes</b> | <b>NCSA Models</b>                                                         | <b>Includes</b>                          | <b>Model Years</b>    | <b>NCSA Body Types</b>                        |
|--------------|----------------------------------------------------------------------------|------------------------------------------|-----------------------|-----------------------------------------------|
| 038          | Breeze                                                                     | --                                       | 1996-2000, 9999       | <a href="#">04</a>                            |
| 039          | Prowler (1997, 1999-2001 only. <a href="#">For 2002 on, see Chrysler</a> ) | Roadster, Black Tie Edition              | 1997; 1999-2001, 9999 | <a href="#">01</a>                            |
| 398          | Other (automobile)                                                         | Regant, Fleet, Savoy, Concord, Cambridge | 1930-95,9999          | <a href="#">01-09</a> , <a href="#">10-12</a> |
| 399          | Unknown (automobile)                                                       | --                                       | 1965-2001, 9999       | <a href="#">01-09</a> , <a href="#">10-12</a> |

### **LIGHT TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b>                                              | <b>Includes</b>                                    | <b>Model Years</b> | <b>NCSA Body Types</b>                                                                                                |
|--------------|-----------------------------------------------------------------|----------------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------|
| 421          | Trailduster                                                     | --                                                 | 1974-93,9999       | <a href="#">15</a>                                                                                                    |
| 441          | Vista Van                                                       | 4X4 (only)                                         | 1987-94,9999       | <a href="#">20</a>                                                                                                    |
| 442          | Voyager (minivan) ( <a href="#">2000 and on, see Chrysler</a> ) | SE, LX, Grand Voyager, SE Expresso, EPIC-electric* | 1984-2001, 9999    | <a href="#">20</a>                                                                                                    |
| 461          | Van-fullsize (B-series)                                         | Voyager (thru 1983), Sport, Premier                | 1965-95,9999       | <a href="#">21</a>                                                                                                    |
| 471          | Arrow pickup (foreign)                                          | --                                                 | 1975-91,9999       | <a href="#">34,39</a>                                                                                                 |
| 498          | Other (light truck)                                             | --                                                 | 1965-2001, 9999    | <a href="#">15</a> , <a href="#">20,21,28,29</a> , <a href="#">34,39</a> , <a href="#">42</a> , <a href="#">45,48</a> |
| 499          | Unknown (light truck)                                           | --                                                 | 1974-2001, 9999    | <a href="#">15</a> , <a href="#">20,21,29</a> , <a href="#">34,39</a> , <a href="#">48,49</a>                         |

### **OTHER AND UNKNOWN VEHICLE**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>   |
|--------------|--------------------|-----------------|--------------------|--------------------------|
| 998          | Other (vehicle)    | --              | 1965-2001, 9999    | <a href="#">92,93,97</a> |
| 999          | Unknown (PLYMOUTH) | --              | 1957-2001, 9999    | <a href="#">49</a>       |

## **NCSA MAKE: Pontiac (22) (PONT)**

### **AUTOMOBILES**

| <b>Codes</b> | <b>NCSA Models</b>                                     | <b>Includes</b>                                                                                          | <b>Model Years</b>    | <b>NCSA Body Types</b>            |
|--------------|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-----------------------|-----------------------------------|
| 001          | Lemans (See model 031 for 1988 on)/Tempest (thru 1970) | Safari, T-37, Luxury, Grand Sport, GTO (thru 1973), GT-37, Sprint, Judge, Grand AM (73-75), Grand Lemans | 1961-81,9999          | <a href="#">01,02,04,06,08,09</a> |
| 002          | Bonneville/Catalina/Parisienne                         | Brougham, Grand Safari, Safari, Grandville, 2+2, Executive, Starchief, SE, SSE, SSEi, G, SLE, GXP        | 1954-2005, 9999       | <a href="#">01,02,04,06,08,09</a> |
| 005          | Fiero                                                  | 2M4, 2M6, GT, SE                                                                                         | 1984-89,9999          | <a href="#">02</a>                |
| 008          | Ventura/GTO                                            | II, SJ, Sprint, GTO (74-77), Custom, Base, LS2                                                           | 1971-77; 2004-06,9999 | <a href="#">02-04,08,09</a>       |
| 009          | Firebird/Trans AM                                      | Esprit, Formula, GTA, Redbird, Yellowbird, Skybird, SE, Bandit, TransAm                                  | 1967-2002, 9999       | <a href="#">01-03,09</a>          |
| 010          | Grand Prix (RWD)                                       | J, LJ, SJ, Brougham, 2+2, GT, STE, SE                                                                    | 1962-87,9999          | <a href="#">01,02,09</a>          |
| 011          | Astre                                                  | Safari, SJ, Custom                                                                                       | 1975-77,9999          | <a href="#">02,03,06,09</a>       |
| 012          | Sunbird (thru 1980;1985 on see model 016)              | Safari, Sport, Formula                                                                                   | 1976-80,9999          | <a href="#">01-09</a>             |
| 013          | T-1000/1000                                            | 2T                                                                                                       | 1981-87,9999          | <a href="#">03,05,07,09</a>       |
| 015          | Phoenix                                                | LJ, SJ                                                                                                   | 1977-84,9999          | <a href="#">02-05,07-09</a>       |
| 016          | Sunbird (1985-1994 only) /J-2000/Sunfire (1995 on)     | LE, SE, GT, 2000 Convertible, 2J, S, SE, GT, 1SA, 1SB, 1SC, 1SV                                          | 1982-2005, 9999       | <a href="#">01-09</a>             |
| 017          | 6000                                                   | STE, SE, LE                                                                                              | 1982-91,9999          | <a href="#">02,04,06,08,09</a>    |
| 018          | Grand AM                                               | SE, LE, GT, GT1, SE1, SE2, SC/T Package                                                                  | 1973-2005, 9999       | <a href="#">02,04,08,09</a>       |
| 019          | G5                                                     | Base, GT                                                                                                 | 2007-10,9999          | <a href="#">02</a>                |
| 020          | Grand Prix (FWD)                                       | LE, SE, STE, GT, McLaren Turbo, GTP, Limited Edition, 40th Anniversary Edition, GXP                      | 1988-2008, 9999       | <a href="#">01,02,04,08,09</a>    |
| 022          | G6                                                     | Base, GT, GTP, Value Leader, GXP                                                                         | 2005-10,9999          | <a href="#">01,02,04,08,09</a>    |
| 023          | Solstice                                               | GXP                                                                                                      | 2006-10,9999          | <a href="#">01,02, 09</a>         |

| <b>Codes</b> | <b>NCSA Models</b>   | <b>Includes</b>                                         | <b>Model Years</b> | <b>NCSA Body Types</b>                     |
|--------------|----------------------|---------------------------------------------------------|--------------------|--------------------------------------------|
| 024          | G8                   | GT, GXP                                                 | 2008-10,9999       | <a href="#">04</a>                         |
| 025          | G3                   | --                                                      | 2009-10,9999       | <a href="#">04,05,09</a>                   |
| 031          | Lemans (1988 on)     | LE, SE, Tempest Canadian                                | 1988-93,9999       | <a href="#">01-09</a>                      |
| 032          | Vibe                 | GT, AWD, HB                                             | 2003-10,9999       | <a href="#">06</a>                         |
| 398          | Other (automobile)   | Torpedo, Streamliner, Chieftain Star Chief, Super Chief | 1946-2010, 9999    | <a href="#">01-09</a> , <a href="#">10</a> |
| 399          | Unknown (automobile) | --                                                      | 1926-2010, 9999    | <a href="#">01-09</a> , <a href="#">10</a> |

### ***LIGHT TRUCKS***

| <b>Codes</b> | <b>NCSA Models</b>          | <b>Includes</b>                                                          | <b>Model Years</b> | <b>NCSA Body Types</b>                                       |
|--------------|-----------------------------|--------------------------------------------------------------------------|--------------------|--------------------------------------------------------------|
| 401          | Aztek                       | GT, SE, 1SA, 1SB, 1SC, Rally Edition                                     | 2001-05,9999       | <a href="#">14</a>                                           |
| 403          | Torrent                     | GXP                                                                      | 2006-09,9999       | <a href="#">14</a>                                           |
| 441          | Trans Sport/<br>Montana/SV6 | SE, Montana, Extended, Versatrak, 1SV, 1SA, 1SX, 1SY, 1SE, Chrome Sport, | 1990-2009, 9999    | <a href="#">20</a>                                           |
| 499          | Unknown (light truck)       | --                                                                       | 1990-2009, 9999    | <a href="#">14</a> , <a href="#">20</a> , <a href="#">49</a> |

### **UNKNOWN**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|--------------------|-----------------|--------------------|------------------------|
| 999          | Unknown (PONTIAC)  | --              | 1951-2010, 9999    | <a href="#">49</a>     |

## NCSA MAKE: Porsche (45) (PORS)

### AUTOMOBILES

| Codes | NCSA Models | Includes                                                                                                                                                                                                              | Model Years        | NCSA Body Types            |
|-------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------------|
| 031   | 911/996     | L, S, E, T, SC, Carrera (2, 4, Cabriolet, S, Targa, T), GT, Slopenose, 4S, Targa, Speedster, Turbo (Base, S, S Exclusive, Cabriolet), B series, S-Coupe, Cabriolet (S), GT2, GT3 (RS), GT, GTS, 4 GTS (Carrera/Targa) | 1965-2020, 9999    | <a href="#">01,02,09</a>   |
| 032   | 912         | 1600, E, T                                                                                                                                                                                                            | 1966-69; 1976,9999 | <a href="#">01,02,09</a>   |
| 033   | 914         | 1.7, 1.8, 2.0, S, 914/4/6                                                                                                                                                                                             | 1970-76,9999       | <a href="#">01</a>         |
| 034   | 924         | Turbo, S                                                                                                                                                                                                              | 1977-88,9999       | <a href="#">01-03,09</a>   |
| 035   | 928         | S, S4, GT, GTS                                                                                                                                                                                                        | 1978-95,9999       | <a href="#">02,03,09</a>   |
| 036   | 930         | Turbo                                                                                                                                                                                                                 | 1979               | <a href="#">02</a>         |
| 037   | 944         | Turbo, S, S2                                                                                                                                                                                                          | 1983-91,9999       | <a href="#">01-03,09</a>   |
| 038   | 959         | Not Imported to US                                                                                                                                                                                                    | 1989-94,9999       | <a href="#">01-03,09</a>   |
| 039   | 968         | --                                                                                                                                                                                                                    | 1992-95,9999       | <a href="#">01,02,09</a>   |
| 040   | 986/Boxster | Boxster, Boxster Cabriolet, S Roadster, S Anniversary, Limited Edition, Spyder, Black Edition, GTS                                                                                                                    | 1997-2016, 9999    | <a href="#">01</a>         |
| 041   | Cayman      | S, Hybrid, Black Edition, R, GTS, GT4                                                                                                                                                                                 | 2006-16,9999       | <a href="#">02</a>         |
| 042   | Panamera    | S, 4, 4S, Turbo, Turbo S, Hybrid, GTS, S, Platinum Edition, Executive, Edition, Exclusive, Sport Turismo (Base/4S/E-Hybrid/S E-Hybrid/Turbo), 10 years edition                                                        | 2010-20,9999       | <a href="#">05, 06, 09</a> |
| 043   | 918         | Spyder, Weissach Pkg                                                                                                                                                                                                  | 2013-17,9999       | <a href="#">01,02,09</a>   |
| 044   | 718         | Cayman (Base, S, GTS, T), Boxster (Base, S, GTS, T), GT4, Spyder                                                                                                                                                      | 2017-20,9999       | <a href="#">01,02,09</a>   |
| 045   | Taycan      | 4S, Turbo, Turbo S                                                                                                                                                                                                    | 2020               | <a href="#">04</a>         |



| <b>Codes</b> | <b>NCSA Models</b>   | <b>Includes</b>                                                             | <b>Model Years</b> | <b>NCSA Body Types</b>         |
|--------------|----------------------|-----------------------------------------------------------------------------|--------------------|--------------------------------|
| 398          | Other (automobile)   | Spyder, Speedster (prior to '65), 356 (A, B, C) Grund, America, Super, 1500 | 1948-2020, 9999    | <a href="#">01-03,04,05,09</a> |
| 399          | Unknown (automobile) | --                                                                          | 1948-2020, 9999    | <a href="#">01-03,04,05,09</a> |

## **LIGHT TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b>    | <b>Includes</b>                                                              | <b>Model Years</b> | <b>NCSA Body Types</b>    |
|--------------|-----------------------|------------------------------------------------------------------------------|--------------------|---------------------------|
| 401          | Macan                 | S, S Diesel, Turbo, GTS                                                      | 2014-20,9999       | <a href="#">14</a>        |
| 421          | Cayenne               | Turbo, S, Titanium, GTS (PD Edition), Transsyberia, Hybrid, Diesel, E-Hybrid | 2003-20,9999       | <a href="#">15</a>        |
| 499          | Unknown (light truck) | --                                                                           | 2003-20,9999       | <a href="#">14, 15,19</a> |

## **UNKNOWN**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|--------------------|-----------------|--------------------|------------------------|
| 999          | Unknown (PORSCHÉ)  | --              | 1965-2020, 9999    | <a href="#">99</a>     |

## **NCSA MAKE: Renault (46) (RENA)**

### **AUTOMOBILES**

| <b>Codes</b> | <b>NCSA Models</b>        | <b>Includes</b>              | <b>Model Years</b> | <b>NCSA Body Types</b>         |
|--------------|---------------------------|------------------------------|--------------------|--------------------------------|
| 031          | LeCar                     | R-5, R5TL, GTL, TL, DLX      | 1976-83,9999       | <a href="#">02-05,07-09</a>    |
| 032          | Dauphine/10/R-8 Caravelle | all models, R-1190, R8 -1100 | 1955-71,9999       | <a href="#">01,02,04,08,09</a> |
| 033          | 12                        | R-12L, R-12TL/GTL            | 1972-77,9999       | <a href="#">04,06,09</a>       |
| 034          | 15                        | R-15TL                       | 1973-76,9999       | <a href="#">02,03,09</a>       |
| 035          | 16                        | R-16, R-1152                 | 1969-72,9999       | <a href="#">06</a>             |
| 036          | 17                        | R17, Gordini Coupe, R17TL    | 1972-80,9999       | <a href="#">01,02,09</a>       |
| 037          | 18i/Sportwagon            | R18i, Deluxe, DLX            | 1981-86,9999       | <a href="#">04,06,09</a>       |

| <b>Codes</b> | <b>NCSA Models</b>               | <b>Includes</b>                   | <b>Model Years</b> | <b>NCSA Body Types</b>       |
|--------------|----------------------------------|-----------------------------------|--------------------|------------------------------|
| 038          | Fuego                            | TL, TS, GTL, GTS, Turbo           | 1982-85,9999       | <a href="#">02,03,09</a>     |
| 039          | Alliance/Encore GTA, Convertible | L, DL, Limited, X-37              | 1983-87,9999       | <a href="#">01-05,07-09</a>  |
| 041          | Alpine                           | GT, GTA Coupe, Not imported to US | 1971-90,9999       | <a href="#">02,03,09</a>     |
| 044          | Medallion **                     | DL, LX                            | 1987               | <a href="#">04,06,09</a>     |
| 045          | Premier**                        | --                                | 1987               | <a href="#">04</a>           |
| 398          | Other (automobile)               | Juvaquatre, 4CV, Fregate, Domaine | 1946-90,9999       | <a href="#">01-09, 10,11</a> |
| 399          | Unknown (automobile)             | --                                | 1946-90,9999       | <a href="#">01-09, 10,11</a> |

**\*\* Note: Medallion and Premier listed under [Eagle](#) after 1987.**

## **NCSA MAKE: Saab (47) (SAA)**

### **AUTOMOBILES**

| <b>Codes</b> | <b>NCSA Models</b>   | <b>Includes</b>                                                             | <b>Model Years</b> | <b>NCSA Body Types</b>         |
|--------------|----------------------|-----------------------------------------------------------------------------|--------------------|--------------------------------|
| 031          | 99/99E/900           | S, GL, GLE, L, LE, 2CM, 4CM Turbo, Cabriolet, 2EM, 4EM, CM, SE              | 1969-98,9999       | <a href="#">01-05,07-09</a>    |
| 032          | Sonnett              | II, III, 97                                                                 | 1967-74,9999       | <a href="#">02</a>             |
| 033          | 95/96                | V-4, M, S, M-S, Special                                                     | 1959-73,9999       | <a href="#">02,06,09</a>       |
| 034          | 9000                 | S, Turbo, CS, CD, CDE, E, AERO, CSE                                         | 1985-98,9999       | <a href="#">04,05,09</a>       |
| 035          | 9-3/9-3x             | SE (Hot), Viggen, Linear Arc, Vector, Aero, 2.0T, SportCombi, Combi, Estate | 1999-2012, 9999    | <a href="#">01,03-07,09</a>    |
| 036          | 9-5                  | SE, Aero, 2.3T, Set, Arc, Linear, Aero, SportCombi, 2.5T, Turbo X, Vector   | 1999-2012, 9999    | <a href="#">02,04,06,08,09</a> |
| 037          | 9-2x                 | Linear, Aero                                                                | 2005-06,9999       | <a href="#">05</a>             |
| 038          | 9-4x                 | --                                                                          | 2009-12,9999       | <a href="#">06</a>             |
| 398          | Other (automobile)   | Monte Carlo 850, GT850, GT750, 92/93                                        | 1950-2012, 9999    | <a href="#">01-09</a>          |
| 399          | Unknown (automobile) | --                                                                          | 1950-2012, 9999    | <a href="#">01-09</a>          |

**LIGHT TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b>                                 | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|--------------------|-------------------------------------------------|--------------------|------------------------|
| 401          | 9-7x               | Arc, Linear, 4.2i, 5.3i, Altitude Edition, Aero | 2005-11,9999       | <a href="#">14</a>     |

**UNKNOWN**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|--------------------|-----------------|--------------------|------------------------|
| 999          | Unknown (SAAB)     | --              | 1950-2012, 9999    | <a href="#">49</a>     |

***NCSA MAKE: Saturn (24) (STRN)*****AUTOMOBILES**

| <b>Codes</b> | <b>NCSA Models</b>   | <b>Includes</b>                          | <b>Model Years</b> | <b>NCSA Body Types</b>          |
|--------------|----------------------|------------------------------------------|--------------------|---------------------------------|
| 001          | SL                   | SL, SL1, SL2                             | 1991-2002, 9999    | <a href="#">04</a>              |
| 002          | SC                   | SC1, SC2                                 | 1991-2002, 9999    | <a href="#">02, 09, 17</a>      |
| 003          | SW                   | SW1, SW2                                 | 1993-2001, 9999    | <a href="#">06</a>              |
| 004          | EV1/EGV1*            | Electric Vehicle (Gen II)                | 1997-2003, 9999    | <a href="#">02</a>              |
| 005          | LS                   | LS, LS1, LS2, L100/L200/L300, L300-1/2/3 | 2000-05,9999       | <a href="#">04</a>              |
| 006          | LW                   | LW1, LW2, LW200/LW300-1/2/3              | 2000-04,9999       | <a href="#">06</a>              |
| 007          | Ion                  | Quad-coupe, I3, Red Line                 | 2003-07,9999       | <a href="#">04, 09, 17</a>      |
| 008          | Sky                  | Red Line                                 | 2007-10,9999       | <a href="#">01</a>              |
| 009          | Aura                 | XE, XR, Hybrid                           | 2007-10,9999       | <a href="#">04</a>              |
| 010          | Outlook              | XE, XR                                   | 2007-10,9999       | <a href="#">06</a>              |
| 011          | Astra                | XE, XR, Sport                            | 2008-10,9999       | <a href="#">03,05,09</a>        |
| 398          | Other (automobile)   | --                                       | 1991-2010, 9999    | <a href="#">02-06,08,09, 17</a> |
| 399          | Unknown (automobile) | --                                       | 1991-2010, 9999    | <a href="#">02-06,08,09, 17</a> |

## LIGHT TRUCKS

| Codes | NCSA Models           | Includes                                     | Model Years  | NCSA Body Types                         |
|-------|-----------------------|----------------------------------------------|--------------|-----------------------------------------|
| 401   | Vue                   | Red Line, 4, V6, Green Line, XE, XR-4, XR-V6 | 2002-10,9999 | <a href="#">14</a>                      |
| 441   | Relay                 | 2, 3                                         | 2005-07,9999 | <a href="#">20</a>                      |
| 499   | Unknown (light truck) | --                                           | 2002-10,9999 | <a href="#">14</a> , <a href="#">20</a> |

## UNKNOWN

| Codes | NCSA Models      | Includes | Model Years     | NCSA Body Types    |
|-------|------------------|----------|-----------------|--------------------|
| 999   | Unknown (SATURN) | --       | 1991-2010, 9999 | <a href="#">49</a> |

## NCSA MAKE: Scion (67) (SCIO)

### AUTOMOBILES

| Codes | NCSA Models                                             | Includes                                                  | Model Years  | NCSA Body Types             |
|-------|---------------------------------------------------------|-----------------------------------------------------------|--------------|-----------------------------|
| 031   | xB (2012 on. <a href="#">See Toyota for 2004-2011</a> ) | 1.0, 2.0 Series, Limited Edition, 10th Anniversary        | 2012-15,9999 | <a href="#">06</a>          |
| 032   | tC (2012 on. <a href="#">See Toyota for 2005-2011</a> ) | 1.0 Series, Limited Edition, 8.0 Series, 10th Anniversary | 2012-16,9999 | <a href="#">03</a>          |
| 033   | xD (2012 on. <a href="#">See Toyota for 2007-2011</a> ) | Limited Edition, 10th Anniversary                         | 2012-14,9999 | <a href="#">05</a>          |
| 034   | iQ (2012 on. <a href="#">See Toyota for 2010-2011</a> ) | 10th Anniversary                                          | 2012-14,9999 | <a href="#">03</a>          |
| 035   | FR-S                                                    | 10th Anniversary                                          | 2013-16,9999 | <a href="#">02</a>          |
| 036   | iA                                                      | --                                                        | 2016         | <a href="#">04</a>          |
| 037   | iM                                                      | --                                                        | 2016         | <a href="#">05</a>          |
| 398   | Other (automobile)                                      | --                                                        | 2012-16,9999 | <a href="#">02-06,08,09</a> |
| 399   | Unknown (automobile)                                    | --                                                        | 2012-16,9999 | <a href="#">02-06,08,09</a> |

**NCSA MAKE: Smart (65) (SMRT)****AUTOMOBILES**

| <b>Codes</b> | <b>NCSA Models</b>   | <b>Includes</b>                                   | <b>Model Years</b> | <b>NCSA Body Types</b>      |
|--------------|----------------------|---------------------------------------------------|--------------------|-----------------------------|
| 031          | Fortwo               | Pure, Prime, Passion, Proxy, Electric, Brabus, EQ | 2008-19,9999       | <a href="#">01,02,03,09</a> |
| 398          | Other (automobile)   | --                                                | 2008-19,9999       | <a href="#">01,02,03,09</a> |
| 399          | Unknown (automobile) | --                                                | 2008-19,9999       | <a href="#">01,02,03,09</a> |

**NCSA MAKE: Sterling (61) (STLG)****AUTOMOBILES**

| <b>Codes</b> | <b>NCSA Models</b>   | <b>Includes</b>            | <b>Model Years</b> | <b>NCSA Body Types</b>   |
|--------------|----------------------|----------------------------|--------------------|--------------------------|
| 031          | 827                  | Li, SL, S, SLI             | 1987-91,9999       | <a href="#">04,05,09</a> |
| 398          | Other (automobile)   | 825, S, SL, Oxford Edition | 1987-91,9999       | <a href="#">04,05,09</a> |
| 399          | Unknown (automobile) | --                         | 1987-91,9999       | <a href="#">04,05,09</a> |

**NCSA MAKE: Subaru (48) (SUBA)****AUTOMOBILES**

| <b>Codes</b> | <b>NCSA Models</b>                                       | <b>Includes</b>                                                                                                                                                                                                                                                                            | <b>Model Years</b> | <b>NCSA Body Types</b>         |
|--------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------------|
| 031          | Loyale (1990 on)/DL/FE/G/GF/GL/GLF/STD                   | 4-wheel drive, S, 1300, 1400, 1600, 1800, A15L, A44L, Touring Wagon, Turbo                                                                                                                                                                                                                 | 1972-94,9999       | <a href="#">02-09</a>          |
| 032          | Star                                                     | FF -1 Star, 1100                                                                                                                                                                                                                                                                           | 1971               | <a href="#">02,04,06,08,09</a> |
| 033          | 360                                                      | --                                                                                                                                                                                                                                                                                         | 1958-70,9999       | <a href="#">02</a>             |
| 034          | Legacy/Outback (prior to 2003 only; see 045 for 2003 on) | L, LS, LSI, 4WD, Outback (Limited, Ltd, Sport, VDC, L.L. Bean Edition), GT, Brighton, Sport Utility Sedan (Ltd.), 30th Anniv. Outback, H-6, 35th Anniv., 2.5, 2.5i (Base, Premium, Sport, Limited) GT, spec. B, 3.0R, Limited, Premium, Sport, 3.6R (Base, Limited), XT (Limited, Touring) | 1990-2020, 9999    | <a href="#">04-06,09</a>       |

| <b>Codes</b> | <b>NCSA Models</b>                           | <b>Includes</b>                                                                                                                                                                       | <b>Model Years</b> | <b>NCSA Body Types</b>         |
|--------------|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------------|
| 035          | XT/XT6                                       | 4WD Turbo, convertible, DL, GL                                                                                                                                                        | 1985-91,9999       | <a href="#">01,02,09</a>       |
| 036          | Justy                                        | DL, GL, 4WD                                                                                                                                                                           | 1987-94,9999       | <a href="#">03,05,07,09</a>    |
| 037          | SVX                                          | LS, LSL, XR, Lsi                                                                                                                                                                      | 1992-97,9999       | <a href="#">02</a>             |
| 038          | Impreza                                      | L, LS, Brighton, Outback Sport, RS, L-Sport, LX, 2.5i/RS/S/TS/ GT, WRX, WRX Sport/STI/SS/ TR, Limited Edition, Premium, SE, STI, STI-S, 2.0i (Premium, Limited, Sport, Sport Limited) | 1993-2020, 9999    | <a href="#">02,04-06,08,09</a> |
| 039          | RX                                           | --                                                                                                                                                                                    | 1986-89,9999       | <a href="#">03,04,09</a>       |
| 043          | Brat                                         | DL, GL                                                                                                                                                                                | 1978-87,9999       | <a href="#">10</a>             |
| 044          | Baja                                         | Sport, Turbo                                                                                                                                                                          | 2003-07,9999       | <a href="#">10</a>             |
| 045          | Outback (2003 on; see 034 for prior to 2003) | H6-VDC, 35th Anniversary Edition, 2.5, 2.5i (Premium, Limited), 2.5XT, 3.0R, Special Edition, VDC Limited, Sport, L.L. Bean Edition, 3.0R. Premium, 3.6R (Limited)                    | 2003-20,9999       | <a href="#">04-06,09</a>       |
| 046          | BRZ                                          | Premium, Limited, tS                                                                                                                                                                  | 2013-20,9999       | <a href="#">03</a>             |
| 047          | WRX (2015 on; see 038 for prior to 2015)     | Premium, Limited, STi (Base, Limited, Type RA, S209)                                                                                                                                  | 2015-20,9999       | <a href="#">04</a>             |
| 398          | Other (automobile)                           | --                                                                                                                                                                                    | 1968-2020, 9999    | <a href="#">01-09, 10</a>      |
| 399          | Unknown (automobile)                         | --                                                                                                                                                                                    | 1968-2020, 9999    | <a href="#">01-09, 10</a>      |

## **LIGHT TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b>                                                                                   | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|--------------------|---------------------------------------------------------------------------------------------------|--------------------|------------------------|
| 401          | Forester           | L, S, 2.5i, 2.0XT, 2.5X, 2.5XS, 2.5XT, L.L. Bean Edition, Limited (Plus), Sport, Premium, Touring | 1997-2020, 9999    | <a href="#">14</a>     |
| 402          | B9 Tribeca         | Base, Limited, Special Edition, Premium, Touring, 3.6R                                            | 2006-14, 9999      | <a href="#">14</a>     |

| <b>Codes</b> | <b>NCSA Models</b>    | <b>Includes</b>                                 | <b>Model Years</b> | <b>NCSA Body Types</b>                                       |
|--------------|-----------------------|-------------------------------------------------|--------------------|--------------------------------------------------------------|
| 403          | XV Crosstrek          | 2.0i Premium/Limited, Hybrid (Premium, Touring) | 2013-19, 9999      | <a href="#">14</a>                                           |
| 421          | Ascent                | Base, Premium, Limited, Touring                 | 2019-20, 9999      | <a href="#">15</a>                                           |
| 499          | Unknown (light truck) | --                                              | 1997-2020, 9999    | <a href="#">14</a> , <a href="#">15</a> , <a href="#">19</a> |

## UNKNOWN

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|--------------------|-----------------|--------------------|------------------------|
| 999          | Unknown (SUBARU)   | --              | 1958-2020, 9999    | <a href="#">49</a>     |

## NCSA MAKE: Suzuki (53) (SUZI)

### AUTOMOBILES

| <b>Codes</b> | <b>NCSA Models</b>   | <b>Includes</b>                                                                                      | <b>Model Years</b>   | <b>NCSA Body Types</b>      |
|--------------|----------------------|------------------------------------------------------------------------------------------------------|----------------------|-----------------------------|
| 031          | Swift/SA310          | Gti, GTX, GLX, GA, GT, GL                                                                            | 1989-2001, 2010,9999 | <a href="#">03-05,07,09</a> |
| 032          | Esteem               | GL, GLX, GLX+                                                                                        | 1995-2002, 9999      | <a href="#">04,06,09</a>    |
| 033          | Aerio                | S, G, LX, SX (Wagon), Luxury                                                                         | 2002-07,9999         | <a href="#">04,06,09</a>    |
| 034          | Forenza              | S, LX, EX, Premium, Convenience, Popular                                                             | 2004-08,9999         | <a href="#">04,06,09</a>    |
| 035          | Verona               | S, LX, EX, Luxury                                                                                    | 2004-06,9999         | <a href="#">04</a>          |
| 036          | Reno                 | S, LX, EX, Premium, Convenience                                                                      | 2005-08,9999         | <a href="#">05</a>          |
| 040          | SX4/SX4 Crossover    | Base, Sport, Convenience, Touring, L, S, SD, SE, GTS, LE, SportBack, JX, Premium, Tech Value Package | 2007-13,9999         | <a href="#">04,05,09</a>    |
| 041          | Kizashi              | GTS, S, SE, SLS, Sport                                                                               | 2010-13,9999         | <a href="#">04</a>          |
| 398          | Other (automobile)   | 800 Fronte, Alto                                                                                     | 1981-2013, 9999      | <a href="#">03-07,09</a>    |
| 399          | Unknown (automobile) | --                                                                                                   | 1981-2013, 9999      | <a href="#">03-07,09</a>    |

## LIGHT TRUCKS

| Codes | NCSA Models                                                    | Includes                                                                                                                                                | Model Years     | NCSA Body Types                         |
|-------|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------------------|
| 401   | Samurai                                                        | Standard, Deluxe, JL                                                                                                                                    | 1986-96,9999    | <a href="#">14</a>                      |
| 402   | Sidekick/Vitara/ Vitara V6                                     | JS, JX, JLX, JLS, Sport, Grand Vitara (1999-2002 only; see model 404 for 2003 on) (JS, JLX, JLS, Ltd.), XL-7 (2002 only; see model 405 for 2003 on), LX | 1989-2004, 9999 | <a href="#">14</a>                      |
| 403   | X-90                                                           | --                                                                                                                                                      | 1996-98,9999    | <a href="#">14</a>                      |
| 404   | Grand Vitara (2003 on; see model 402 for models prior to 2003) | JS, JLX, JLS, Limited, GX, LX, XV6, Premium, Xsport, Luxury, Special Edition, Ultra Adventure Edition                                                   | 2003-13,9999    | <a href="#">14</a>                      |
| 405   | XL-7 (2003 on; see 402 for 2002 model year)                    | Standard, Touring, Limited, GX, LX, Premium, Luxury                                                                                                     | 2003-09,9999    | <a href="#">14</a>                      |
| 481   | Equator                                                        | Comfort, Premium, Sport, RMZ-4                                                                                                                          | 2009-13,9999    | <a href="#">34</a>                      |
| 498   | Other (light truck)                                            | Jimmy                                                                                                                                                   | 1981-2013, 9999 | <a href="#">14</a> , <a href="#">34</a> |
| 499   | Unknown (light truck)                                          | --                                                                                                                                                      | 1981-2013, 9999 | <a href="#">14</a> , <a href="#">34</a> |

## MOTORCYCLES

| Codes | NCSA Models | Includes | Model Years              | NCSA Body Types                                                                                                             |
|-------|-------------|----------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| 701   | 0-50cc      | --       | 1970-2013, 2019-20, 9999 | <a href="#">80</a> , <a href="#">81</a> , <a href="#">83</a> , <a href="#">84</a> , <a href="#">88</a> , <a href="#">89</a> |
| 702   | 51-124cc    | --       | 1970-2020, 9999          | <a href="#">80</a> , <a href="#">81</a> , <a href="#">83</a> , <a href="#">84</a> , <a href="#">88</a> , <a href="#">89</a> |
| 703   | 125-349cc   | --       | 1969-2020, 9999          | <a href="#">80</a> , <a href="#">83</a> , <a href="#">84</a> , <a href="#">88</a> , <a href="#">89</a>                      |
| 704   | 350-449cc   | --       | 1970-93; 2000-20, 9999   | <a href="#">80</a> , <a href="#">83</a> , <a href="#">84</a> , <a href="#">88</a> , <a href="#">89</a>                      |
| 705   | 450-749cc   | --       | 1969-2020, 9999          | <a href="#">80</a> , <a href="#">83</a> , <a href="#">84</a> , <a href="#">88</a> , <a href="#">89</a>                      |
| 706   | 750cc-over  | --       | 1970-2020, 9999          | <a href="#">80</a> , <a href="#">83</a> , <a href="#">84</a> , <a href="#">88</a> , <a href="#">89</a>                      |
| 709   | Unknown cc  | --       | 1969-2020, 9999          | <a href="#">80</a> - <a href="#">84</a> , <a href="#">87</a> - <a href="#">89</a>                                           |



**ALL TERRAIN VEHICLES**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b>              | <b>NCSA Body Types</b>                  |
|--------------|--------------------|-----------------|---------------------------------|-----------------------------------------|
| 731          | 0-50cc             | --              | 1969-87; 2002-04, 2009-20, 9999 | <a href="#">90</a> , <a href="#">96</a> |
| 732          | 51-124cc           | --              | 1969-2004, 2009-20, 9999        | <a href="#">90</a> , <a href="#">96</a> |
| 733          | 125-349cc          | --              | 1969-2019, 9999                 | <a href="#">90</a> , <a href="#">96</a> |
| 734          | 350cc or greater   | --              | 1969-93; 1998-2020, 9999        | <a href="#">90</a> , <a href="#">96</a> |
| 739          | Unknown cc         | --              | 1969-2020, 9999                 | <a href="#">90</a> , <a href="#">96</a> |

**UNKNOWN**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>                  |
|--------------|--------------------|-----------------|--------------------|-----------------------------------------|
| 999          | Unknown (SUZUKI)   | --              | 1969-2020, 9999    | <a href="#">49</a> , <a href="#">99</a> |

**NCSA MAKE: Toyota (49) (TOYT)****AUTOMOBILES**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b>                                                                                                                                              | <b>Model Years</b> | <b>NCSA Body Types</b>         |
|--------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------------|
| 031          | Corona             | Mark II, Custom, 1900, 2000, Deluxe                                                                                                                          | 1966-83,9999       | <a href="#">02,04,06,08,09</a> |
| 032          | Corolla            | 1100, 1200, 1600, SR-5, LE, DX, CE, Deluxe, Custom, FX, FX16, Sport, GTS, VE, S, XRS, XLE, CE, L, Special Edition, LE Eco, 50th Anniversary, XSE, iM, SE CVT | 1969-2020, 9999    | <a href="#">02-09</a>          |
| 033          | Celica             | 1900, 2000, GT, ST, GTS, VE, GT-S                                                                                                                            | 1971-2006, 9999    | <a href="#">01-03,09</a>       |
| 034          | Supra              | Celica Supra, Soarer, Turbo                                                                                                                                  | 1979-98,9999       | <a href="#">03</a>             |
| 035          | Cressida           | --                                                                                                                                                           | 1978-92,9999       | <a href="#">04-06,09</a>       |
| 036          | Crown              | 2300, 2600, Toyopets                                                                                                                                         | 1958-71,9999       | <a href="#">02,04,06,08,09</a> |
| 037          | Carina             | 2000                                                                                                                                                         | 1972-73,9999       | <a href="#">02</a>             |

| <b>Codes</b> | <b>NCSA Models</b>                                                  | <b>Includes</b>                                                                                                                                                                                                                                      | <b>Model Years</b>    | <b>NCSA Body Types</b>         |
|--------------|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------|
| 038          | Tercel                                                              | Corolla Tercel, 4WD, EZ, DX, LE, DLX, CE                                                                                                                                                                                                             | 1980-99,9999          | <a href="#">02-09</a>          |
| 039          | Starlet                                                             | --                                                                                                                                                                                                                                                   | 1981-84,9999          | <a href="#">03</a>             |
| 040          | Camry                                                               | LE, Deluxe, XLE, DLX, SE, All-Trac, CE, SE, Limited Edition, L, Hybrid (CVT/LE/XLE/SE), XSE, Special Edition, TRD, Nightshade Edition                                                                                                                | 1983-2020, 9999       | <a href="#">02,04-06,08,09</a> |
| 041          | MR-2/MR Spyder                                                      | Super Charged                                                                                                                                                                                                                                        | 1984-95; 2000-07,9999 | <a href="#">01,02,09</a>       |
| 042          | Paseo                                                               | Turbo, T-bar                                                                                                                                                                                                                                         | 1992-97,9999          | <a href="#">01,02,09</a>       |
| 043          | Avalon                                                              | XL, XLS, Limited, Touring, XLE, Hybrid, Premium, Sport, Plus, TRD                                                                                                                                                                                    | 1995-2020, 9999       | <a href="#">04</a>             |
| 044          | Solara                                                              | Camry Solara (SE, SLE, Sport)                                                                                                                                                                                                                        | 1999-2009, 9999       | <a href="#">01,02,09</a>       |
| 045          | ECHO                                                                | --                                                                                                                                                                                                                                                   | 2000-05,9999          | <a href="#">02,04,08,09</a>    |
| 046          | Prius *                                                             | *Electric hybrid, Touring, II, III, IV, V (2/3/4/5), (CVT), 3 <sup>rd</sup> Generation (2/3/4/5), Plug-In (Base/Advanced), c (1/2/3/4,L,LE), Persona Series, Two, Two Eco, Three, Three Touring, Four, Four Touring, Prime (Plus, Premium, Advanced) | 2001-20,9999          | <a href="#">03-06,07,09</a>    |
| 047          | Matrix                                                              | Base, XR, XRS, STD, S, SD, L                                                                                                                                                                                                                         | 2003-13,9999          | <a href="#">06</a>             |
| 048          | Scion xA                                                            | RS 1.0                                                                                                                                                                                                                                               | 2004-06,9999          | <a href="#">05</a>             |
| 049          | Scion xB (2004-2011 only. <a href="#">See 67-031 for 2012 on.</a> ) | 1.0, 2.0 Series                                                                                                                                                                                                                                      | 2004-11,9999          | <a href="#">06</a>             |
| 050          | Scion tC (2005-2011 only. <a href="#">See 67-032 for 2012 on.</a> ) | 1.0 Series                                                                                                                                                                                                                                           | 2005-11,9999          | <a href="#">03</a>             |
| 051          | Yaris                                                               | Liftback, S, CE, HB, LB, LE, RS, SE, L, iA, XLE                                                                                                                                                                                                      | 2007-20,9999          | <a href="#">03-05, 09</a>      |

| <b>Codes</b> | <b>NCSA Models</b>                                                  | <b>Includes</b>                                 | <b>Model Years</b> | <b>NCSA Body Types</b>                     |
|--------------|---------------------------------------------------------------------|-------------------------------------------------|--------------------|--------------------------------------------|
| 052          | Scion xD (2007-2011 only. <a href="#">See 67-033 for 2012 on.</a> ) | --                                              | 2007-11,9999       | <a href="#">05</a>                         |
| 053          | Venza                                                               | LE, XLE, Limited                                | 2009-15,9999       | <a href="#">05</a>                         |
| 054          | Scion iQ (2010-2011 only. <a href="#">See 67-034 for 2012 on.</a> ) | --                                              | 2010-11,9999       | <a href="#">04</a>                         |
| 055          | Mirai                                                               | --                                              | 2016-19, 9999      | <a href="#">04</a>                         |
| 056          | 86                                                                  | Base, GT, TRD, Special Edition, Hakone Edition  | 2017-20, 9999      | <a href="#">03</a>                         |
| 057          | GR Supra                                                            | 3.0, 3.0 Premium, Launch Edition                | 2020               | <a href="#">03</a>                         |
| 398          | Other (automobile)                                                  | 2000 GT Coupe (1960s), Sports 800, Viper, Tiara | 1960-2020, 9999    | <a href="#">01-09</a> , <a href="#">10</a> |
| 399          | Unknown (automobile)                                                | --                                              | 1960-2020, 9999    | <a href="#">01-09</a> , <a href="#">10</a> |

## **LIGHT TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b>                                                                                                       | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|--------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------|------------------------|
| 401          | 4-Runner           | SR5 (Base, Limited, Premium), Limited (Base, Nightshade Edition), Sport, Trail, TRD Pro, TRD Off-Road (Base, Premium) | 1984-2020, 9999    | <a href="#">14</a>     |
| 402          | RAV4*              | L, LE, EVs-electric*, Sport, Limited, Hybrid (Limited, SE, XLE, LE), XLE (Base, Premium), Platinum, Adventure, SE     | 1996-2020, 9999    | <a href="#">14</a>     |
| 403          | Highlander         | Limited, Hybrid (LE, XLE, Limited), Sport, SE, Plus, LE, LE Plus, XLE, Platinum                                       | 2001-19, 9999      | <a href="#">14</a>     |
| 404          | FJ Cruiser         | Baja 1000, FJ, SE, TRD, AT, MT                                                                                        | 2007-14, 9999      | <a href="#">14</a>     |
| 405          | C-HR               | LE, Limited, XLE, XLE Premium                                                                                         | 2018-20, 9999      | <a href="#">14</a>     |
| 421          | Land Cruiser       | 4WD, Heritage Edition                                                                                                 | 1964-2020, 9999    | <a href="#">15</a>     |

| <b>Codes</b> | <b>NCSA Models</b>                     | <b>Includes</b>                                                                                                                                          | <b>Model Years</b> | <b>NCSA Body Types</b>                                                                                                                  |
|--------------|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| 422          | Sequoia                                | SR5, Limited, Platinum, TRD Sport                                                                                                                        | 2001-20, 9999      | <a href="#">15</a>                                                                                                                      |
| 441          | Minivan (1984-90)/<br>Previa (1991 on) | LE, Cargo, DX, XLE                                                                                                                                       | 1984-97, 9999      | <a href="#">20</a>                                                                                                                      |
| 442          | Sienna                                 | CE, LE, XLE, Symphony, Limited, SE, L                                                                                                                    | 1998-2020, 9999    | <a href="#">20</a>                                                                                                                      |
| 471          | Pickup                                 | SR5, Xtracab, Sport, LN44, Chinook, Wonder Wagon                                                                                                         | 1974-95, 9999      | <a href="#">34,39</a> , <a href="#">40</a> , <a href="#">42</a>                                                                         |
| 472          | Tacoma                                 | SR5, Xtracab, Limited, PreRunner, Side Step, Double Cab, S-Runner, 2.7L, 4.0L, X-Runner, T/X, T/X Pro, Access Cab, TRD (Sport, Pro, Off-Road), SR        | 1995-2020, 9999    | <a href="#">34,39</a> , <a href="#">40</a> , <a href="#">42</a>                                                                         |
| 481          | T-100                                  | DX, SR5, Limited, Xtracab                                                                                                                                | 1993-98,9999       | <a href="#">34,39</a> , <a href="#">40</a> , <a href="#">42</a>                                                                         |
| 482          | Tundra                                 | SR5 (Access Cab), LTD (Access Cab), Double Cab, Darrell Waltrip Special Edition, CrewMax, 4.0L, 4.6L, 5.7L, Limited, SR, 1794 Edition, Platinum, TRD Pro | 1999-2020, 9999    | <a href="#">34,39</a> , <a href="#">40</a> , <a href="#">42</a>                                                                         |
| 498          | Other (light truck)                    | --                                                                                                                                                       | 1970-2020, 9999    | <a href="#">14,15,19</a> , <a href="#">20,29</a> , <a href="#">34,39</a>                                                                |
| 499          | Unknown (light truck)                  | --                                                                                                                                                       | 1973-2020, 9999    | <a href="#">14,15,19</a> , <a href="#">20</a> , <a href="#">34,39</a> , <a href="#">40</a> , <a href="#">42</a> , <a href="#">48,49</a> |

#### UNKNOWN

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|--------------------|-----------------|--------------------|------------------------|
| 999          | Unknown (TOYOTA)   | --              | 1966-2020, 9999    | <a href="#">49</a>     |

## **NCSA MAKE: Triumph (50) (TRIU)**

### **AUTOMOBILES**

| <b>Codes</b> | <b>NCSA Models</b>   | <b>Includes</b>                     | <b>Model Years</b> | <b>NCSA Body Types</b>         |
|--------------|----------------------|-------------------------------------|--------------------|--------------------------------|
| 031          | Spitfire             | I, II, III, IV, 1500                | 1962-81,9999       | <a href="#">01,02,09</a>       |
| 032          | GT-6                 | MK3                                 | 1967-73,9999       | <a href="#">01,02,09</a>       |
| 033          | TR4                  | TR2, TR3, TR4A                      | 1958-68,9999       | <a href="#">01,02,09</a>       |
| 034          | TR6                  | --                                  | 1969-76,9999       | <a href="#">01,02,09</a>       |
| 035          | TR7/TR8              | --                                  | 1975-81,9999       | <a href="#">01,02,09</a>       |
| 036          | Herald               | Vitesse                             | 1960-74,9999       | <a href="#">01,02,06,09</a>    |
| 037          | Stag                 | --                                  | 1971-73,9999       | <a href="#">01,02,09</a>       |
| 398          | Other (automobile)   | 1800, 2000, Mayflower, Renown, 1200 | 1946-81,9999       | <a href="#">01,02,04,08,09</a> |
| 399          | Unknown (automobile) | --                                  | 1946-81,9999       | <a href="#">01,02,04,08,09</a> |

### **MOTORCYCLES**

| <b>Codes</b> | <b>NCSA Models</b>   | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|----------------------|-----------------|--------------------|------------------------|
| 701          | 0-50cc               | --              | 1965-83,9999       | <a href="#">80</a>     |
| 702          | 51-124cc             | --              | 1965-83,9999       | <a href="#">80</a>     |
| 703          | 125-349cc            | --              | 1950-74,9999       | <a href="#">80</a>     |
| 704          | 350-449cc            | --              | 1950-71,9999       | <a href="#">80</a>     |
| 705          | 450-749cc            | --              | 1950-2019, 9999    | <a href="#">80</a>     |
| 706          | 750cc or greater     | --              | 1950-2020, 9999    | <a href="#">80</a>     |
| 709          | Unknown cc           | --              | 1950-2020, 9999    | <a href="#">80</a>     |
| 799          | Unknown (motorcycle) | --              | 1950-2020, 9999    | <a href="#">80</a>     |

### **UNKNOWN**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|--------------------|-----------------|--------------------|------------------------|
| 999          | Unknown (TRIUMPH)  | --              | 1950-2020, 9999    | <a href="#">99</a>     |

## NCSA MAKE: Volkswagen (30) (VOLK)

### AUTOMOBILES

| Codes | NCSA Models                     | Includes                                                                                                                                                                                                                                                                                                                                     | Model Years           | NCSA Body Types                |
|-------|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------|
| 031   | Karmann Ghia                    | --                                                                                                                                                                                                                                                                                                                                           | 1954-75,9999          | <a href="#">01,02,09</a>       |
| 032   | Beetle 1300/1500                | Flat windshield, 94.5 WB                                                                                                                                                                                                                                                                                                                     | 1948-77,9999          | <a href="#">01,02,09</a>       |
| 033   | Super Beetle                    | Curved windshield 95.3 WB                                                                                                                                                                                                                                                                                                                    | 1971-80,9999          | <a href="#">01,02,09</a>       |
| 034   | 411/412                         | Squareback/Fastback                                                                                                                                                                                                                                                                                                                          | 1971-74,9999          | <a href="#">03,04,09</a>       |
| 035   | Squareback/Fastback             | Type 3, 1600                                                                                                                                                                                                                                                                                                                                 | 1965-74,9999          | <a href="#">02</a>             |
| 036   | Rabbit                          | L, GTI, Sport, LS, Custom, DL, Deluxe, S                                                                                                                                                                                                                                                                                                     | 1975-84, 2006-09,9999 | <a href="#">01,03,05-07,09</a> |
| 037   | Dasher                          | --                                                                                                                                                                                                                                                                                                                                           | 1974-81,9999          | <a href="#">03,05-07,09</a>    |
| 038   | Scirocco                        | 16V                                                                                                                                                                                                                                                                                                                                          | 1975-88,9999          | <a href="#">02</a>             |
| 040   | Jetta/Jetta SportsWagen         | III, GL (TDI, 1.9L, 2.0L), GLI (2.0T, VR6), GLS (1.8T,1.8L/1.9L/ 2.0L/2.8L/ TDI/VR6), GT, Carat, TDI, GLX (VR6/ 2.8L), Turbo Diesel, 2.5L Wolfsburg Edition, S/SE/ SEL, Value Edition, 2.0T, 3.6, Autobahn, Hybrid (SE, SEL, SEL Premium), Premium, Edition 30, 1.4T, Sport, Turbo Charged, 35th Anniversary Edition                         | 1981-2019, 9999       | <a href="#">02,04,06,08,09</a> |
| 041   | Quantum                         | Synco                                                                                                                                                                                                                                                                                                                                        | 1982-88,9999          | <a href="#">02,04,06,08,09</a> |
| 042   | Golf/Cabriolet/Cabrio/ GTI/ GLI | Golf II, GTI (GLS, GLX 1.8T/2.0T/2.8L), GT, GL(1.8T/ VR6/2.0L/1.9L/ TDI), Golf III, GLS (1.8T/1.8L/1.9L/ 2.0/TDI), Wolfsburg, Cabrio (GL, GLS, GLX), 20th Anniversary, R32, MkV, Convenience, R, 2.5L, Driver's Edition, SE, SEL, Autobahn, Launch Edition, SportWagen (S, SE, SEL), eGolf (SE, SEL Premium), Alltrack (S,SE, SEL), Alltrack | 1985-2019, 9999       | <a href="#">01,03,05-09</a>    |
| 043   | Rabbit Pickup                   | car-based pickup                                                                                                                                                                                                                                                                                                                             | 1980-83,9999          | <a href="#">10</a>             |
| 044   | Fox                             | GL                                                                                                                                                                                                                                                                                                                                           | 1987-94,9999          | <a href="#">02,04,06,08,09</a> |

| <b>Codes</b> | <b>NCSA Models</b>                                | <b>Includes</b>                                                                                                                                                                                                                          | <b>Model Years</b>       | <b>NCSA Body Types</b>    |
|--------------|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------------|
| 045          | Corrado                                           | --                                                                                                                                                                                                                                       | 1989-94,9999             | <a href="#">02</a>        |
| 046          | Passat (CC - 2008 thru 2011; see 052 for 2012 on) | GL, GLS (1.8T, Synchro, V6), TDI, GLX (1.8T, 2.0T, W8, Synchro, V6), 4MOTION, 3.6 GL, Value Edition, CC, Highline, Komfort, 2.5 (S/SE), Wolfsburg Edition, Sport, Premium, Clean Diesel, SEL, R-Line, 35th Anniversary Edition, Autobahn | 1990-2020, 9999          | <a href="#">04,06,09</a>  |
| 047          | New Beetle                                        | GL GLS TDI, 1.8T/1.8L/1.9L/2.0L/2.5/2.5L Syncro/V6, GLX (1.8T), Turbo, Turbo S, Fender Edition, Sun and Sound, R-Line, GSR, Clean Diesel, Classic, SE, SEL, Dune, #PinkBeetle, Coast, <i>Final Edition (SE, SEL)</i>                     | 1998-2010, 2012-19, 9999 | <a href="#">01,03,09</a>  |
| 048          | Phaeton                                           | 3.2L, 4.2L, V6, V8, W12                                                                                                                                                                                                                  | 2002-11,9999             | <a href="#">04</a>        |
| 051          | Eos                                               | 2.0T, 3.2L, Executive, Komfort, Luxury, Turbo, VR6, Sport, Final Edition                                                                                                                                                                 | 2006-16,9999             | <a href="#">01</a>        |
| 052          | CC (For 2012 on. See model 046 for 2008-2011.)    | Luxury, Sport, Sport Plus, VR6, R-Line, 2.0T, 4MOTION, Executive, V6                                                                                                                                                                     | 2012-17,9999             | <a href="#">04</a>        |
| 053          | Arteon                                            | R-Line, SE, SEL                                                                                                                                                                                                                          | 2019                     | <a href="#">05</a>        |
| 398          | Other (automobile)                                | --                                                                                                                                                                                                                                       | 1965-2020, 9999          | <a href="#">01-09, 10</a> |
| 399          | Unknown (automobile)                              | --                                                                                                                                                                                                                                       | 1956-2020, 9999          | <a href="#">01-09, 10</a> |

## **LIGHT TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b>                                                                       | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|--------------------|---------------------------------------------------------------------------------------|--------------------|------------------------|
| 401          | The Thing (181)    | --                                                                                    | 1973-75,9999       | <a href="#">14</a>     |
| 402          | Tiguan             | S, SE, SEL, R-Line, 4MOTION, 2.0T, Wolfsburg, Sport, Premium, Limited (Base, 4MOTION) | 2008-20,9999       | <a href="#">14</a>     |

| <b>Codes</b> | <b>NCSA Models</b>    | <b>Includes</b>                                                                                | <b>Model Years</b> | <b>NCSA Body Types</b>           |
|--------------|-----------------------|------------------------------------------------------------------------------------------------|--------------------|----------------------------------|
| 403          | Atlas                 | S, V6 (S, 4MOTION, Launch Edition, SE, SEL)                                                    | 2018-19,9999       | <a href="#">14</a>               |
| 421          | Touareg/Touareg 2     | V6, V8, V10, VR6 FSI, Lux, Executive, Hybrid, Sport, R-Line, X Special Edition, TDI, Wolfsburg | 2003-17,9999       | <a href="#">15</a>               |
| 441          | Vanagon/Camper        | Bus, Kombi, Van                                                                                | 1955-91,9999       | <a href="#">20</a>               |
| 442          | Eurovan               | GLS, MV, Camper, Weekender Package                                                             | 1992-04,9999       | <a href="#">20</a>               |
| 443          | Routan                | S, SE, SEL Premium/RSE                                                                         | 2009-14,9999       | <a href="#">20</a>               |
| 498          | Other (light truck)   | --                                                                                             | 1967-2020, 9999    | <a href="#">14,15,19, 20</a>     |
| 499          | Unknown (light truck) | --                                                                                             | 1965-2020, 9999    | <a href="#">14,15,19, 20, 49</a> |

#### OTHER AND UNKNOWN VEHICLE

| <b>Codes</b> | <b>NCSA Models</b>   | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>   |
|--------------|----------------------|-----------------|--------------------|--------------------------|
| 998          | Other (vehicle)      | --              | 1965-2020, 9999    | <a href="#">92,93,97</a> |
| 999          | Unknown (VOLKSWAGEN) | --              | 1956-2020, 9999    | <a href="#">49</a>       |



## NCSA MAKE: Volvo (51) (VOLV)

### AUTOMOBILES

| Codes | NCSA Models                                          | Includes                                                                                                                                  | Model Years     | NCSA Body Types                    |
|-------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------------------|
| 031   | 122                                                  | S                                                                                                                                         | 1958-68,9999    | <a href="#">02,04,06,08,09</a>     |
| 032   | 140/142/144/145 *                                    | S, E, GL, GLS, Deluxe                                                                                                                     | 1968-74,9999    | <a href="#">02,04,06,08,09</a>     |
| 033   | 164                                                  | S, E                                                                                                                                      | 1970-75,9999    | <a href="#">04</a>                 |
| 034   | 240 series*/DL/GL/GLT                                | 242, 244, 245, DL, GL, GLT, Deluxe                                                                                                        | 1975-93,9999    | <a href="#">02,04,06,08,09</a>     |
| 035   | 260 series/GLE                                       | 264,265,262, c, Volvo Coupe, Volvo Diesel                                                                                                 | 1976-82,9999    | <a href="#">02,04,06,08,09, 12</a> |
| 036   | 1800                                                 | E, S, ES, P1800                                                                                                                           | 1960-73,9999    | <a href="#">02,06,09</a>           |
| 037   | PV544                                                | PV444                                                                                                                                     | 1947-65,9999    | <a href="#">04,06,09</a>           |
| 038   | 760/780                                              | GLE, Turbo, Bertone Coupe                                                                                                                 | 1983-92,9999    | <a href="#">02,04,06,08,09, 12</a> |
| 039   | 740                                                  | GLE, GT, Turbo, GL, SE                                                                                                                    | 1983-92,9999    | <a href="#">04,06,09</a>           |
| 040   | 940                                                  | GLE, Turbo, SE                                                                                                                            | 1991-95,9999    | <a href="#">04,06,09, 12</a>       |
| 041   | 960                                                  | --                                                                                                                                        | 1992-97,9999    | <a href="#">04,06,09, 12</a>       |
| 042   | 850                                                  | GLT, Turbo, T-5, GTAS, GTMS Cross Country                                                                                                 | 1993-97,9999    | <a href="#">04,06,09</a>           |
| 043   | 70 Series (For XC70 for 2014 on, use model code 402) | C70 (LT, HT, T5), S70 (GLT, T5, AWD) V70 (R, SC Cross Country, GLT, T5, M, 2.4T, 2.4, 2.5T, T6, R, 3.2) LPT, HPT, XC70                    | 1998-2013, 9999 | <a href="#">01,02,04,06,08, 09</a> |
| 044   | 90 Series                                            | S90, V90                                                                                                                                  | 1998            | <a href="#">04,06,09</a>           |
| 045   | 80 Series                                            | S80 (2.9, T6, Executive, Premier) 2.5, 2.5T, 3.2, V8                                                                                      | 1999-2017, 9999 | <a href="#">04</a>                 |
| 046   | 40 Series                                            | S40, V40, LSE, 2.5i, T5, 2.4i, R-Design                                                                                                   | 2000-11,9999    | <a href="#">04,06,09</a>           |
| 047   | 60 Series                                            | S60 (2.4T, 2.4, 2.5 AWD, T5, Polestar), 2.4M, 2.5T, R, T5, T6, R-Design, Drive-E, Cross Country, Dynamic, Inscription, Polestar, Momentum | 2001-20,9999    | <a href="#">04</a>                 |
| 048   | V50                                                  | 2.4i, T5, R-Design                                                                                                                        | 2005-11,9999    | <a href="#">06</a>                 |
| 049   | C30                                                  | 1.0, 2.0, T5, R-Design                                                                                                                    | 2008-13,9999    | <a href="#">03</a>                 |

| <b>Codes</b> | <b>NCSA Models</b>                                              | <b>Includes</b>                                                                                                 | <b>Model Years</b> | <b>NCSA Body Types</b>                        |
|--------------|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------|
| 050          | XC60 (For 2008-2018 only. For model years 2019 on, see 51-404.) | 3.2, T5 (Dynamic, Inscription), T6 (Dynamic Inscription, R-Design), R-Design, Drive-E, Momentum, Plug-In Hybrid | 2008-18,9999       | <a href="#">06</a>                            |
| 051          | V60                                                             | T5, T6, R-Design, Drive-E, Cross Country, Polestar, Dynamic, Momentum, Inscription                              | 2014-20,9999       | <a href="#">06</a>                            |
| 052          | V90                                                             | Cross Country (Volvo Ocean Race, Inscription, R-Design)                                                         | 2017-20, 9999      | <a href="#">06</a>                            |
| 053          | S90                                                             | T5 (Momentum, Inscription), T6 (Momentum, Inscription), R-Design                                                | 2017-20, 9999      | <a href="#">04</a>                            |
| 398          | Other (automobile)                                              | --                                                                                                              | 1958-2020, 9999    | <a href="#">01-09</a> , <a href="#">10-12</a> |
| 399          | Unknown (automobile)                                            | --                                                                                                              | 1958-2020, 9999    | <a href="#">01-09</a> , <a href="#">10-12</a> |

#### **LIGHT TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b>                                         | <b>Includes</b>                                                                                                            | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|--------------------|------------------------|
| 401          | XC90                                                       | 2.5T(AWD), T6(AWD), V8, 3.2, R-Design, SVR7, First Edition, T5, Plug-In, Excellence, T8, Momentum, Inscription, Excellence | 2003-20, 9999      | <a href="#">14</a>     |
| 402          | XC70 (For 2014 on. For prior to 2013, use model code 043)  | 3.2, T6, Drive-E                                                                                                           | 2014-17,9999       | <a href="#">14</a>     |
| 403          | XC40                                                       | Momentum, R-Design, Plug-In Hybrid, Inscription                                                                            | 2018-20, 9999      | <a href="#">14</a>     |
| 404          | XC60 (For 2019 on. For model years 2008-2018, see 51-050.) | Momentum, R-Design, Inscription, Polestar                                                                                  | 2019-20, 9999      | <a href="#">14</a>     |
| 499          | Unknown (light truck)                                      | --                                                                                                                         | 2003-20, 9999      | <a href="#">14</a>     |

## MEDIUM/HEAVY TRUCKS

| Codes | NCSA Models                               | Includes | Model Years              | NCSA Body Types                   |
|-------|-------------------------------------------|----------|--------------------------|-----------------------------------|
| 881   | Medium/Heavy - CBE                        | --       | 1981-93; 1996-2020, 9999 | <a href="#">60-64,66,78</a>       |
| 882   | Medium/Heavy - COE low entry              | --       | 1981-93; 1996-2004, 9999 | <a href="#">60-64,66,78</a>       |
| 883   | Medium/Heavy - COE high entry             | --       | 1981-93; 1996-2004, 9999 | <a href="#">60-64,66,78</a>       |
| 884   | Medium/Heavy - Unknown engine location    | --       | 1981-93; 1996-2019, 9999 | <a href="#">60-64,66,71,72,78</a> |
| 890   | Medium/Heavy - COE entry position unknown | --       | 1981-93; 1996-2020, 9999 | <a href="#">60-64,66,78</a>       |
| 898   | Other (medium/heavy truck)                | --       | 1981-93; 1996-2020, 9999 | <a href="#">60-64,66,71,72,78</a> |

## BUSES

| Codes | NCSA Models                            | Includes | Model Years     | NCSA Body Types             |
|-------|----------------------------------------|----------|-----------------|-----------------------------|
| 981   | Bus**: Conventional (Engine out front) | --       | 1981-2005, 9999 | <a href="#">50-52,58,59</a> |
| 983   | Bus: Rear engine, Flat front           | --       | 2014-20,9999    | <a href="#">50-52,58,59</a> |
| 988   | Other (bus)                            | --       | 1965-2020, 9999 | <a href="#">50-52,58,59</a> |
| 989   | Unknown (bus)                          | --       | 1965-2020, 9999 | <a href="#">50-52,58,59</a> |

**\*\*Use “981” (bus) if the frontal plane or the engine location is unknown.**

## OTHER AND UNKNOWN

| Codes | NCSA Models     | Includes | Model Years     | NCSA Body Types            |
|-------|-----------------|----------|-----------------|----------------------------|
| 998   | Other (Vehicle) | --       | 1958-2020, 9999 | <a href="#">92,93,97</a>   |
| 999   | Unknown (VOLVO) | --       | 1958-2020, 9999 | <a href="#">49, 79, 99</a> |

**NCSA MAKE: Yugo (57) (YUGO)****AUTOMOBILES**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b>       | <b>Model Years</b> | <b>NCSA Body Types</b>   |
|--------------|--------------------|-----------------------|--------------------|--------------------------|
| 031          | GV/GVL/GVX         | All models, Cabriolet | 1986-92,9999       | <a href="#">01-03,09</a> |

**NCSA MAKE: Other Domestic Manufacturers (29)****AUTOMOBILES**

| <b>Codes</b> | <b>NCSA Models</b>   | <b>Includes</b>                                                                                                                                          | <b>Model Years</b>       | <b>NCSA Body Types</b>                       |
|--------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------------------------|
| 001          | Studebaker/Avanti    | Lark, Gran Turismo, Hawk, Cruiser, all associated subseries, light pickup, Studebaker XUV/XUT, Lister                                                    | 1940-91;<br>2001-07,9999 | <a href="#">01,02,04,06,08,09, 16, 34,39</a> |
| 002          | Checker              | Marathon, Superba, Taxi, Aerobus                                                                                                                         | 1965-82,9999             | <a href="#">04,06,09, 12</a>                 |
| 003          | Panoz                | Esperante (Magnussen Edition, Spyder (Base, GT), Convertible, GTS), GT, GTS, GTLM, JRD, Abruzzi, Roadster, GTR1, 25th Anniversary, Spyder (GT), Avezzano | 2000-19,9999             | <a href="#">01,02,09</a>                     |
| 004          | Saleen               | S7, S281, 435S, S302 (White Label, Yellow Label, Black Label), 570, 620, FOURSIXTEEN                                                                     | 2001-15,9999             | <a href="#">01,02,04,08,09</a>               |
| 005          | Tesla                | Roadster (Base, Sport) Model S (Base, Signature, Performance), Model X, Super Charger, Model 3, Model Y                                                  | 2008-20,9999             | <a href="#">01,04,05,09, 14</a>              |
| 398          | Other (automobile)   | Desoto, Excalibur, Stutz, FiberFab, Hudson, Packard, Consulier, Gatsby, Auburn, Phaeton, Citicar, Clenet                                                 | 1930-91,9999             | <a href="#">01-09, 10-13</a>                 |
| 399          | Unknown (automobile) | --                                                                                                                                                       | 1940-2020, 9999          | <a href="#">01-09, 10-13, 14,16,19, 39</a>   |

**NCSA MAKE: Other Import (69)****AUTOMOBILES**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b>                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Model Years</b> | <b>NCSA Body Types</b>      |
|--------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------|
| 031          | Aston Martin       | Lagonda, Vantage, Volante, Saloon, DB Mark III, DB4, DB4GT, DB5, DB6, DB7 (Heritage/Vantage/Volante), V12 (Vanquish S/Zagato/ Vantage, Vantage S), V8 (Vantage/ Vantage S), DB9 (Carbon Edition, GT), Rapide (S), Cygnet, Carbon Black, One-77, Virage (Coupe/ Volante), DBS (Coupe/ Volante), CC100, Vantage GT, Rapide E, Vulcan, GT12, DB11                                                                                                             | 1950-2020, 9999    | <a href="#">01-09</a>       |
| 032          | Bricklin           | --                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1965-91,9999       | <a href="#">02</a>          |
| 033          | Citroen            | --                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1965-91,9999       | <a href="#">02-09</a>       |
| 034          | DeLorean           | --                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1981-83,9999       | <a href="#">02</a>          |
| 035          | Ferrari            | F355 (Berlinetta, GTS, Spider, F1), F430, F456 (GTA, M, GT, MGTA), F550 (Maranello, Barchetta Pininfarina), 360/430 (Spider, Modena, Challenge) Maranello, Berlinetta, MGT (Vintage), Enzo, Challenge Stradale, 575M, 612 Scaglietti, Superamerica, 599 GTB/GTO, California (T), 418 Italia, FF, SA Aperta, 458 (Spider/ Italia/ Challenge/ Speciale (A)), F12 Berlinetta, FF, LaFerrari, 488 GTB/Spider/Pista, GTC4Lusso, F12TDF, F60 America, F8 Tributo | 1965-2020, 9999    | <a href="#">01-05,07-09</a> |
| 036          | Hillman            | --                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1965-91,9999       | <a href="#">01-09</a>       |
| 037          | Jensen             | Healy-Interceptor, 541R                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1965-91,9999       | <a href="#">01-05,07-09</a> |

| <b>Codes</b> | <b>NCSA Models</b>  | <b>Includes</b>                                                                                                                                                                                                                                                                                                                        | <b>Model Years</b>     | <b>NCSA Body Types</b>                                                                                                                           |
|--------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| 038          | Lamborghini         | Countach, 5000S, Jalpa, Diablo, Miura, Murciélago (LP640), Galladoro, LP 550-2/560-4/570-4/670-4/700-4, CP, Aventador (J, SV, LP750-4, Roadster), Sesto Elemento, Spyder, Superlegga, Aventador, Gallardo, Veneo, Huracan (Base, Spyder, EVO), 350GT, Urus                                                                             | 1965-2020, 9999        | <a href="#">01</a> , <a href="#">02</a> , <a href="#">04</a> , <a href="#">08</a> , <a href="#">09</a> , <a href="#">14</a>                      |
| 039          | Lotus               | Europe, Espirit (V8, GT-3, V8-GT) Elise, Exige, Evora (Range/GTE/400), California, Club Racer, Sport, 2-Eleven, Black, Bespoke, 3-Eleven (430)                                                                                                                                                                                         | 1967-2020, 9999        | <a href="#">01,02,03, 04</a> , <a href="#">08,09</a>                                                                                             |
| 040          | Maserati            | Biturbo, Ghibli, 3200 GT, Quattroporte, Spyder GT, Sports GT, Executive GT, 90th Anniversary, MC12, GranSport, GranTurismo, GranCabrio, Stradale, Kubang, Sport, MC, S, GTS, S Q4, MC Centennial Edition, Levante, Alfier, Trofeo                                                                                                      | 1965-99; 2002-19, 9999 | <a href="#">01-05,07-09</a> , <a href="#">14</a>                                                                                                 |
| 041          | Morris              | Minor                                                                                                                                                                                                                                                                                                                                  | 1965-91,9999           | <a href="#">01-09</a> , <a href="#">10</a>                                                                                                       |
| 042          | Rolls Royce/Bentley | Rolls Royce: Cloud/ Shadow series, Silver Spur, Silver Dawn, Silver Spirit, Silver Seraph, Corniche, Park Ward), Phantom (Drophead), Ghost; Bently: (Arnaze, Azure, Continental (GT, Speed Black Edition), Mulliner), Brooklands, Goodwood, EWB, 4, Mulsanne, Flying Spur, Super Sports, Wraith, Dawn, Cullinan, Black Badge, Bentayga | 1926-2020, 9999        | <a href="#">01</a> , <a href="#">02</a> , <a href="#">03</a> , <a href="#">04</a> , <a href="#">08</a> , <a href="#">09</a> , <a href="#">15</a> |
| 044          | Simca               | --                                                                                                                                                                                                                                                                                                                                     | 1965-91,9999           | <a href="#">01-09</a>                                                                                                                            |
| 045          | Sunbeam             | --                                                                                                                                                                                                                                                                                                                                     | 1965-91,9999           | <a href="#">01,02,04,08,09</a>                                                                                                                   |
| 046          | TVR                 | --                                                                                                                                                                                                                                                                                                                                     | 1965-91,9999           | <a href="#">01,02,09</a>                                                                                                                         |
| 048          | Desta               | --                                                                                                                                                                                                                                                                                                                                     | 1985-99,9999           | <a href="#">14,15,19</a>                                                                                                                         |
| 049          | Reliant             | --                                                                                                                                                                                                                                                                                                                                     | 1960-91,9999           | <a href="#">01-09</a>                                                                                                                            |
| 052          | Bertone             | X/19                                                                                                                                                                                                                                                                                                                                   | 1989-91,9999           | <a href="#">01,02,09</a>                                                                                                                         |
| 053          | Lada                | --                                                                                                                                                                                                                                                                                                                                     | 1965-91,9999           | <a href="#">01-09</a>                                                                                                                            |

| <b>Codes</b> | <b>NCSA Models</b>                         | <b>Includes</b>                                                                                                                                                                                                                                                                                                                                                  | <b>Model Years</b>        | <b>NCSA Body Types</b>                                                                                                      |
|--------------|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| 054          | Mini-Cooper                                | Mark I, II, III, S, SE, Sport, MC40, Traveller, John Cooper Works, Clubman, Countryman, Paceman, Coupe, All 4, Roadster, Convertible, Plug-In, Signature, Classic, Iconic, Oxford Edition, International Orange Edition, Ice Blue Edition, Ying Yang Edition, Straight Edition, 60 Years Special Edition, Rebel Green Edition, John Cooper Works Knights Edition | 1961-74;<br>2002-20, 9999 | <a href="#">01</a> , <a href="#">03</a> , <a href="#">05</a> , <a href="#">06</a> , <a href="#">09</a> , <a href="#">14</a> |
| 055          | Morgan (2003 on;<br>Prior to 2003 see 398) | Aero 8, Plus 8, V6, Classic Range, AeroMax, 4/4 Sport, Super Sports Junior, Plus 4, 4-Seater, Aero, Eva GT, 3-Seater, 4/4, Plus 8, SP1, AR Plus 4, Roadster 37                                                                                                                                                                                                   | 2003-19, 9999             | <a href="#">01,02,09</a>                                                                                                    |
| 056          | Maybach                                    | 57, 57S, 62, 62S, Laudualet, Zeppelin, Guard                                                                                                                                                                                                                                                                                                                     | 2003-14,9999              | <a href="#">04</a>                                                                                                          |
| 057          | Spyker                                     | C8, Base, T, Laviollette, Aileron, Spyder, Double 12R, Double 12S, C12 Zagato, L2014 M85, D, B6 Venator                                                                                                                                                                                                                                                          | 2005-15,9999              | <a href="#">01,02,09,17</a>                                                                                                 |
| 058          | Koenigsegg                                 | CC8S, CCR, CCX, CCXR, CCGT, Trevita, Agera, CC8S, Agera R/S, Special Edition, Regera, One:1, Jesko                                                                                                                                                                                                                                                               | 2007-20, 9999             | <a href="#">01</a>                                                                                                          |
| 061          | Mahindra                                   | Scorpio (Lx, Sle, Vls, Vlx)                                                                                                                                                                                                                                                                                                                                      | 2010-19, 9999             | <a href="#">14</a> , <a href="#">34</a> , <a href="#">96</a>                                                                |
| 062          | Caterham                                   | Classic, Roadsport, Academy, Superlight (R300/R400/R500), CSR, Seven (270/280/310/360/420/480/620S/R), SP 300R, Aeroseven, Superflight Twenty, 60th Anniversary Edition                                                                                                                                                                                          | 2011-20, 9999             | <a href="#">01</a>                                                                                                          |
| 063          | McLaren                                    | MP4-12C, P15, 675LT, 540C, 12C GT Spirit, 650S, P1, BP23, 570S, 600LT, 720S                                                                                                                                                                                                                                                                                      | 2011-20, 9999             | <a href="#">01</a>                                                                                                          |
| 064          | Bugatti                                    | Veyron 164 (Grand Sport, Super Sport), Vitesse, Chiron, Divo                                                                                                                                                                                                                                                                                                     | 2005-20, 9999             | <a href="#">01,02,09</a>                                                                                                    |
| 398          | Other (automobile)                         | Morgan (Prior to 2003; 2003 on see 055), Singer, Gazelle, Fisker, Karma                                                                                                                                                                                                                                                                                          | 1928-2020, 9999           | <a href="#">01-09</a> , <a href="#">10-13</a> , <a href="#">17</a>                                                          |
| 399          | Unknown (automobile)                       | --                                                                                                                                                                                                                                                                                                                                                               | 1928-2020, 9999           | <a href="#">01-09</a> , <a href="#">10</a> , <a href="#">19</a> , <a href="#">39</a>                                        |

## Motored Cycles

Note: Refer to [Passenger Vehicle section](#) for motored cycles produced by automobile manufacturers ([BMW](#), [Honda](#), [Peugeot](#), [Suzuki](#), [Triumph](#))

**NCSA MAKE: BSA (70) (BSA )**

### MOTORCYCLES

| Codes | NCSA Models      | Includes | Model Years  | NCSA Body Types                    |
|-------|------------------|----------|--------------|------------------------------------|
| 701   | 0-50cc           | --       | 1950-72,9999 | <a href="#">80,81,83,84, 88,89</a> |
| 702   | 51-124cc         | --       | 1950-72,9999 | <a href="#">80,81,83,84, 88,89</a> |
| 703   | 125-349cc        | --       | 1950-72,9999 | <a href="#">80,83,84,88,89</a>     |
| 704   | 350-449cc        | --       | 1950-72,9999 | <a href="#">80,83,84,88,89</a>     |
| 705   | 450-749cc        | --       | 1950-72,9999 | <a href="#">80,83,84,88,89</a>     |
| 706   | 750cc or greater | --       | 1950-72,9999 | <a href="#">80,83,84,88,89</a>     |
| 709   | Unknown cc       | --       | 1950-72,9999 | <a href="#">80,83,84,88,89</a>     |

**NCSA MAKE: Ducati (71) (DUCA)**

### MOTORCYCLES

| Codes | NCSA Models      | Includes | Model Years              | NCSA Body Types                       |
|-------|------------------|----------|--------------------------|---------------------------------------|
| 701   | 0-50cc           | --       | 1958-65,9999             | <a href="#">80,81,84,88,89</a>        |
| 702   | 51-124cc         | --       | 1958-65,9999             | <a href="#">80,81,84,88,89</a>        |
| 703   | 125-349cc        | --       | 1958-65,9999             | <a href="#">80,88,89</a>              |
| 704   | 350-449cc        | --       | 1958-65, 2014-20, 9999   | <a href="#">80,88,89</a>              |
| 705   | 450-749cc        | --       | 1958-93; 1997-2020; 9999 | <a href="#">80,88,89</a>              |
| 706   | 750cc or greater | --       | 1958-2020, 9999          | <a href="#">80,88,89</a>              |
| 709   | Unknown cc       | --       | 1958-2020, 9999          | <a href="#">80-83, 84, 87, 88, 89</a> |



**NCSA MAKE: Harley-Davidson (72) (HD)****MOTORCYCLES**

| <b>Codes</b> | <b>NCSA Models</b>  | <b>Includes</b> | <b>Model Years</b>     | <b>NCSA Body Types</b>             |
|--------------|---------------------|-----------------|------------------------|------------------------------------|
| 701          | 0-50cc              | --              | 1965-66,9999           | <a href="#">80,81,88,89</a>        |
| 702          | 51-124cc            | --              | 1948-78,9999           | <a href="#">80,81,88,89</a>        |
| 703          | 125-349cc           | --              | 1948-88,9999           | <a href="#">80,84,88,89</a>        |
| 704          | 350-449cc           | --              | 1969-74,9999           | <a href="#">80,88,89</a>           |
| 705          | 450-749cc           | --              | 1971-78, 2014-19, 9999 | <a href="#">80,88,89</a>           |
| 706          | 750cc or greater    | --              | 1932-2020; 9999        | <a href="#">80,82,87,88,89</a>     |
| 707          | Electric Motorcycle | Livewire        | 2020                   | <a href="#">80</a>                 |
| 709          | Unknown cc          | --              | 1932-2020, 9999        | <a href="#">80-82,84,87, 88,89</a> |

**NCSA MAKE: Kawasaki (73) (KAWK)****MOTORCYCLES**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b>              | <b>NCSA Body Types</b>             |
|--------------|--------------------|-----------------|---------------------------------|------------------------------------|
| 701          | 0-50cc             | --              | 1965-82, 9999                   | <a href="#">80,81,83,84, 88,89</a> |
| 702          | 51-124cc           | --              | 1965-2020, 9999                 | <a href="#">80,81,83,84, 88,89</a> |
| 703          | 125-349cc          | --              | 1965-2020, 9999                 | <a href="#">80,83,84,88,89</a>     |
| 704          | 350-449cc          | --              | 1975-98; 2003-04; 2006-20, 9999 | <a href="#">80,83,84,88,89</a>     |
| 705          | 450-749cc          | --              | 1972-2020, 9999                 | <a href="#">80,83,84,88,89</a>     |
| 706          | 750cc or greater   | --              | 1972-2020, 9999                 | <a href="#">80,83,84,88,89</a>     |
| 709          | Unknown cc         | --              | 1965-2020, 9999                 | <a href="#">80,83,84,87, 88,89</a> |

**ALL TERRAIN VEHICLES**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b>     | <b>NCSA Body Types</b> |
|--------------|--------------------|-----------------|------------------------|------------------------|
| 731          | 0-50cc             | --              | 2003-20, 9999          | <a href="#">90, 96</a> |
| 732          | 51-124cc           | --              | 1970-88; 2003-20, 9999 | <a href="#">90, 96</a> |
| 733          | 125-349cc          | --              | 1970-2020, 9999        | <a href="#">90, 96</a> |

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>                  |
|--------------|--------------------|-----------------|--------------------|-----------------------------------------|
| 734          | 350cc or greater   | --              | 1970-2020, 9999    | <a href="#">90</a> , <a href="#">96</a> |
| 739          | Unknown cc         | --              | 1970-2020, 9999    | <a href="#">90</a> , <a href="#">96</a> |
| 998          | Other (Vehicle)    | --              | 1965-2020, 9999    | <a href="#">91</a> , <a href="#">96</a> |

***NCSA MAKE: Moto-Guzzi (74) (MOGU)***

**MOTORCYCLES**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b>     | <b>NCSA Body Types</b>   |
|--------------|--------------------|-----------------|------------------------|--------------------------|
| 704          | 350-449cc          | --              | 1965-76, 9999          | <a href="#">80,88,89</a> |
| 705          | 450-749cc          | --              | 1965-87; 2004-20, 9999 | <a href="#">80,88,89</a> |
| 706          | 750cc or greater   | --              | 1965-2020, 9999        | <a href="#">80,88,89</a> |
| 709          | Unknown cc         | --              | 1965-2020, 9999        | <a href="#">80,88,89</a> |

***NCSA MAKE: Norton (75) (NORT)***

**MOTORCYCLES**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>      |
|--------------|--------------------|-----------------|--------------------|-----------------------------|
| 704          | 350-449cc          | --              | 1950-76, 9999      | <a href="#">80,83,88,89</a> |
| 705          | 450-749cc          | --              | 1950-76, 9999      | <a href="#">80,83,88,89</a> |
| 706          | 750cc or greater   | --              | 1950-76, 9999      | <a href="#">80,83,88,89</a> |
| 709          | Unknown cc         | --              | 1950-76, 9999      | <a href="#">80,83,88,89</a> |

***NCSA MAKE: Victory (77) (VCTY)***

**MOTORCYCLES**

| <b>Codes</b> | <b>NCSA Models</b>  | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>   |
|--------------|---------------------|-----------------|--------------------|--------------------------|
| 706          | 750cc or greater    | --              | 1998-2017, 9999    | <a href="#">80,88,89</a> |
| 707          | Electric Motorcycle | --              | 2017               | <a href="#">80,88,89</a> |
| 709          | Unknown cc          | --              | 1998-2017, 9999    | <a href="#">80,88,89</a> |
| 998          | Other (Vehicle)     | --              | 1998-2017, 9999    | <a href="#">89</a>       |

**NCSA MAKE: Yamaha (76) (YAMA)****MOTORCYCLES**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>                         |
|--------------|--------------------|-----------------|--------------------|------------------------------------------------|
| 701          | 0-50cc             | --              | 1979-2020, 9999    | <a href="#">80,81,83,84, 88,89</a>             |
| 702          | 51-124cc           | --              | 1972-2020, 9999    | <a href="#">80,81,83,84, 88,89</a>             |
| 703          | 125-349cc          | --              | 1969-2020, 9999    | <a href="#">80,83,84,88,89</a>                 |
| 704          | 350-449cc          | --              | 1972-2020, 9999    | <a href="#">80,83,84,88,89</a>                 |
| 705          | 450-749cc          | --              | 1971-2020, 9999    | <a href="#">80,83,84,88,89</a>                 |
| 706          | 750cc or greater   | --              | 1974-2020, 9999    | <a href="#">80, 83, 84, 85, 88, 89</a>         |
| 709          | Unknown cc         | --              | 1969-2020, 9999    | <a href="#">80, 81, 83, 84, 85, 87, 88, 89</a> |

**ALL TERRAIN VEHICLES**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b>         | <b>Model Years</b>     | <b>NCSA Body Types</b>     |
|--------------|--------------------|-------------------------|------------------------|----------------------------|
| 731          | 0-50cc             | --                      | 1965-91, 2005-20, 9999 | <a href="#">90, 96</a>     |
| 732          | 51-124cc           | --                      | 1965-2020, 9999        | <a href="#">90, 96</a>     |
| 733          | 125-349cc          | --                      | 1965-2019, 9999        | <a href="#">90, 96</a>     |
| 734          | 350cc or greater   | --                      | 1993-2020, 9999        | <a href="#">90, 96</a>     |
| 739          | Unknown cc         | --                      | 1965-2020, 9999        | <a href="#">90, 96</a>     |
| 998          | Other (Vehicle)    | Snowmobiles, Golf Carts | 1965-2020, 9999        | <a href="#">91, 95, 96</a> |

## Trucks

### ***NCSA MAKE: Brockway (80) (BROC)***

#### **MEDIUM/HEAVY TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b>                        | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>                |
|--------------|-------------------------------------------|-----------------|--------------------|---------------------------------------|
| 881          | Medium/Heavy - CBE                        | --              | 1965-77,9999       | <a href="#">60-64, 66, 71, 72, 78</a> |
| 882          | Medium/Heavy - COE low entry              | --              | 1965-77,9999       | <a href="#">60-64, 66, 71, 72, 78</a> |
| 883          | Medium/Heavy - COE high entry             | --              | 1965-77,9999       | <a href="#">60-64, 66, 71, 72, 78</a> |
| 884          | Medium/Heavy - Unknown engine location    | --              | 1965-77,9999       | <a href="#">60-64, 66, 71, 72, 78</a> |
| 890          | Medium/Heavy - COE entry position unknown | --              | 1965-77,9999       | <a href="#">60-64, 66, 71, 72, 78</a> |
| 898          | Other (medium/heavy truck)                | --              | 1965-77,9999       | <a href="#">60-64, 66, 71, 72, 78</a> |

#### **BUSES**

| <b>Codes</b> | <b>NCSA Models</b>                     | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>      |
|--------------|----------------------------------------|-----------------|--------------------|-----------------------------|
| 981          | Bus**: Conventional (Engine out front) | --              | 1965-77,9999       | <a href="#">50-52,58,59</a> |
| 982          | Bus: Front engine, Flat front          | --              | 1965-77,9999       | <a href="#">50-52,58,59</a> |
| 983          | Bus: Rear engine, Flat front           | --              | 1965-77,9999       | <a href="#">50-52,58,59</a> |
| 988          | Other (bus)                            | --              | 1965-77,9999       | <a href="#">50-52,58,59</a> |
| 989          | Unknown (bus)                          | --              | 1965-77,9999       | <a href="#">50-52,58,59</a> |

**\*\*Use code “989” (bus) if the frontal plane or the engine location is unknown.**

#### **MOTOR HOME**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|--------------------|-----------------|--------------------|------------------------|
| 850          | Motor Home         | Truck based     | 1965-77,9999       | <a href="#">65,73</a>  |

#### **OTHER AND UNKNOWN VEHICLE**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>   |
|--------------|--------------------|-----------------|--------------------|--------------------------|
| 998          | Other (vehicle)    | --              | 1965-77,9999       | <a href="#">92,93,97</a> |
| 999          | Unknown (BROCKWAY) | --              | 1965-77,9999       | <a href="#">99</a>       |

**NCSA MAKE: Diamond Reo or Reo (81) (DIAR)****MEDIUM/HEAVY TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b>                        | <b>Includes</b>               | <b>Model Years</b>     | <b>NCSA Body Types</b>                |
|--------------|-------------------------------------------|-------------------------------|------------------------|---------------------------------------|
| 881          | Medium/Heavy - CBE                        | DC101, C116, M35 (A1, A2, A3) | 1950-88, 1993-99, 9999 | <a href="#">60-64, 66, 71, 72, 78</a> |
| 882          | Medium/Heavy - COE low entry              | --                            | 1954-75, 9999          | <a href="#">60-64, 66, 71, 72, 78</a> |
| 883          | Medium/Heavy - COE high entry             | C054-C088                     | 1954-75, 9999          | <a href="#">60-64, 66, 71, 72, 78</a> |
| 884          | Medium/Heavy - Unknown engine location    | --                            | 1954-75,9999           | <a href="#">60-64, 66, 71, 72, 78</a> |
| 890          | Medium/Heavy - COE entry position unknown | --                            | 1950-88, 1993-99, 9999 | <a href="#">60-64, 66, 71, 72, 78</a> |
| 898          | Other (medium/heavy truck)                | --                            | 1950-88, 1993-99, 9999 | <a href="#">60-64, 66, 71, 72, 78</a> |

**BUSES**

| <b>Codes</b> | <b>NCSA Models</b>                     | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>      |
|--------------|----------------------------------------|-----------------|--------------------|-----------------------------|
| 981          | Bus**: Conventional (Engine out front) | --              | 1954-75, 9999      | <a href="#">50-52,58,59</a> |
| 982          | Bus: Front engine, Flat front          | --              | 1954-75, 9999      | <a href="#">50-52,58,59</a> |
| 983          | Bus: Rear engine, Flat front           | --              | 1954-75, 9999      | <a href="#">50-52,58,59</a> |
| 988          | Other (bus)                            | --              | 1954-75, 9999      | <a href="#">50-52,58,59</a> |
| 989          | Unknown (bus)                          | --              | 1954-75, 9999      | <a href="#">50-52,58,59</a> |

**\*\*Use code “989” (bus) if the frontal plane or the engine location is unknown.**

**MOTOR HOME**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|--------------------|-----------------|--------------------|------------------------|
| 850          | Motor Home         | --              | 1954-75, 9999      | <a href="#">65,73</a>  |

**OTHER AND UNKNOWN VEHICLE**

| <b>Codes</b> | <b>NCSA Models</b>           | <b>Includes</b> | <b>Model Years</b>     | <b>NCSA Body Types</b>   |
|--------------|------------------------------|-----------------|------------------------|--------------------------|
| 998          | Other (vehicle)              | --              | 1950-88, 1993-99, 9999 | <a href="#">92,93,97</a> |
| 999          | Unknown (DIAMOND REO or REO) | --              | 1950-88, 1993-99, 9999 | <a href="#">99</a>       |

**NCSA MAKE: Freightliner (82) (FRHT)****LIGHT TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b>    | <b>Includes</b>                 | <b>Model Years</b> | <b>NCSA Body Types</b>                                                |
|--------------|-----------------------|---------------------------------|--------------------|-----------------------------------------------------------------------|
| 461          | Sprinter/Advantage    | 2500 (HC/SHC),<br>3500 (HC/SHC) | 2002-19, 9999      | <a href="#">21,22,28,29</a>                                           |
| 462          | MT 35 Chassis         | --                              | 1985-2013, 9999    | <a href="#">22</a> , <a href="#">40</a> , <a href="#">42</a>          |
| 498          | Other (light truck)   | --                              | 1985-2019, 9999    | <a href="#">20-22,28,29</a> , <a href="#">48</a>                      |
| 499          | Unknown (light truck) | --                              | 1985-2019, 9999    | <a href="#">20-22,28,29</a> , <a href="#">48</a> , <a href="#">49</a> |

**MEDIUM/HEAVY TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b>                        | <b>Includes</b> | <b>Model Years</b>    | <b>NCSA Body Types</b>                                                                                    |
|--------------|-------------------------------------------|-----------------|-----------------------|-----------------------------------------------------------------------------------------------------------|
| 870          | Medium Heavy Van-Based Vehicle            | Sprinter        | 2002-19, 9999         | <a href="#">55</a> , <a href="#">61-64</a>                                                                |
| 881          | Medium/Heavy - CBE                        | --              | 1965-2020, 9999       | <a href="#">60-64</a> , <a href="#">66</a> , <a href="#">71</a> , <a href="#">72</a> , <a href="#">78</a> |
| 882          | Medium/Heavy - COE low entry              | --              | 1968-2013, 9999       | <a href="#">60-64</a> , <a href="#">66</a> , <a href="#">71</a> , <a href="#">72</a> , <a href="#">78</a> |
| 883          | Medium/Heavy - COE high entry             | --              | 1965-2013, 9999       | <a href="#">60-64</a> , <a href="#">66</a> , <a href="#">71</a> , <a href="#">72</a> , <a href="#">78</a> |
| 884          | Medium/Heavy - Unknown engine location    | --              | 1963-2013, 2020, 9999 | <a href="#">60-64</a> , <a href="#">66</a> , <a href="#">71</a> , <a href="#">72</a> , <a href="#">78</a> |
| 890          | Medium/Heavy - COE entry position unknown | --              | 1965-2013, 9999       | <a href="#">60-64</a> , <a href="#">66</a> , <a href="#">71</a> , <a href="#">72</a> , <a href="#">78</a> |
| 898          | Other (medium/heavy truck)                | --              | 1965-2020, 9999       | <a href="#">60-64</a> , <a href="#">66</a> , <a href="#">71</a> , <a href="#">72</a> , <a href="#">78</a> |

## BUSES

| Codes | NCSA Models                            | Includes | Model Years     | NCSA Body Types             |
|-------|----------------------------------------|----------|-----------------|-----------------------------|
| 981   | Bus**: Conventional (Engine out front) | --       | 1965-2019, 9999 | <a href="#">50-52,58,59</a> |
| 982   | Bus: Front engine, Flat front          | --       | 1965-2019, 9999 | <a href="#">50-52,58,59</a> |
| 983   | Bus: Rear engine, Flat front           | --       | 1965-2019, 9999 | <a href="#">50-52,58,59</a> |
| 988   | Other (bus)                            | --       | 1965-2019, 9999 | <a href="#">50-52,58,59</a> |
| 989   | Unknown (bus)                          | --       | 1965-2019, 9999 | <a href="#">50-52,58,59</a> |

**\*\*Use code “989” (bus) if the frontal plane or the engine location is unknown.**

## MOTOR HOME

| Codes | NCSA Models | Includes | Model Years     | NCSA Body Types       |
|-------|-------------|----------|-----------------|-----------------------|
| 850   | Motor Home  | --       | 1965-2019, 9999 | <a href="#">65,73</a> |

## OTHER AND UNKNOWN VEHICLE

| Codes | NCSA Models            | Includes | Model Years     | NCSA Body Types          |
|-------|------------------------|----------|-----------------|--------------------------|
| 998   | Other (vehicle)        | --       | 1963-2020, 9999 | <a href="#">92,93,97</a> |
| 999   | Unknown (FREIGHTLINER) | --       | 1963-2020, 9999 | <a href="#">99</a>       |

## NCSA MAKE: FWD (83) (FWD)

## MEDIUM/HEAVY TRUCKS

| Codes | NCSA Models                               | Includes | Model Years     | NCSA Body Types                       |
|-------|-------------------------------------------|----------|-----------------|---------------------------------------|
| 881   | Medium/Heavy - CBE                        | --       | 1965-2001, 9999 | <a href="#">60-64, 66, 71, 72, 78</a> |
| 882   | Medium/Heavy - COE low entry              | --       | 1965-2001, 9999 | <a href="#">60-64, 66, 71, 72, 78</a> |
| 883   | Medium/Heavy - COE high entry             | --       | 1965-2001, 9999 | <a href="#">60-64, 66, 71, 72, 78</a> |
| 884   | Medium/Heavy - Unknown engine location    | --       | 1965-2001, 9999 | <a href="#">60-64, 66, 71, 72, 78</a> |
| 890   | Medium/Heavy - COE entry position unknown | --       | 1965-2001, 9999 | <a href="#">60-64, 66, 71, 72, 78</a> |
| 898   | Other (medium/heavy truck)                | --       | 1965-2001, 9999 | <a href="#">60-64, 66, 71, 72, 78</a> |

## BUSES

| Codes | NCSA Models                            | Includes | Model Years     | NCSA Body Types             |
|-------|----------------------------------------|----------|-----------------|-----------------------------|
| 981   | Bus**: Conventional (Engine out front) | --       | 1965-2001, 9999 | <a href="#">50-52,58,59</a> |
| 982   | Bus: Front engine, Flat front          | --       | 1965-2001, 9999 | <a href="#">50-52,58,59</a> |
| 983   | Bus: Rear engine, Flat front           | --       | 1965-2001, 9999 | <a href="#">50-52,58,59</a> |
| 988   | Other (bus)                            | --       | 1965-2001, 9999 | <a href="#">50-52,58,59</a> |
| 989   | Unknown (bus)                          | --       | 1965-2001, 9999 | <a href="#">50-52,58,59</a> |

**\*\*Use code “989” (bus) if the frontal plane or the engine location is unknown.**

## MOTOR HOME

| Codes | NCSA Models | Includes | Model Years     | NCSA Body Types       |
|-------|-------------|----------|-----------------|-----------------------|
| 850   | Motor Home  | --       | 1965-2001, 9999 | <a href="#">65,73</a> |

## OTHER AND UNKNOWN VEHICLE

| Codes | NCSA Models     | Includes | Model Years     | NCSA Body Types          |
|-------|-----------------|----------|-----------------|--------------------------|
| 998   | Other (vehicle) | --       | 1965-2001, 9999 | <a href="#">92,93,97</a> |
| 999   | Unknown (FWD)   | --       | 1965-2001, 9999 | <a href="#">99</a>       |

## ***NCSA MAKE: International Harvester/Navistar (84) (INTL) - (NAVI)***

## LIGHT TRUCKS

| Codes | NCSA Models           | Includes                                                                         | Model Years  | NCSA Body Types                    |
|-------|-----------------------|----------------------------------------------------------------------------------|--------------|------------------------------------|
| 421   | Scout                 | Scout II, Utility pickup, SS-2, Roadster, 800 series, Traveler, Terra Traveltop, | 1962-80,9999 | <a href="#">15</a>                 |
| 431   | Travelall             | 1010-1210, 100-200                                                               | 1963-75,9999 | <a href="#">16</a>                 |
| 466   | Multistop Van         | Metro RM, MS1510, 120-160, MS1210                                                | 1960-84,9999 | <a href="#">22,28,29</a>           |
| 481   | Pickup                | R-100-500, 900A-1500C/D, 1010-1510                                               | 1951-76,9999 | <a href="#">33, 34</a>             |
| 498   | Other (light truck)   | --                                                                               | 1960-84,9999 | <a href="#">15,16,19, 22,28,29</a> |
| 499   | Unknown (light truck) | --                                                                               | 1951-84,9999 | <a href="#">15,16,19, 22,28,29</a> |



## MEDIUM/HEAVY TRUCK

| Codes | NCSA Models                               | Includes                                                                                                                           | Model Years     | NCSA Body Types                       |
|-------|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------|
| 881   | Medium/Heavy - CBE                        | Loadstar/Fleetstar, Paystar, CBE Transtar, 4200, S-series Mixer, 8100, 8500, 9100, 9200, 9300, 9400, 9900, CXT, RXT, MXT, Lonestar | 1963-2020, 9999 | <a href="#">60-64, 66, 71, 72, 78</a> |
| 882   | Medium/Heavy - COE low entry              | CO, VCO, DCO, 190-1950, Cargostar, LFM, 5370 (Garbage), CF500/600                                                                  | 1973-2018, 9999 | <a href="#">60-64, 66, 71, 72, 78</a> |
| 883   | Medium/Heavy - COE high entry             | DCO, DCOT, UCO, VCOT, 405-series, COE Transtar, Unistar, Conco 707B, 9600                                                          | 1961-2018, 9999 | <a href="#">60-64, 66, 71, 72, 78</a> |
| 884   | Medium/Heavy - Unknown engine location    | --                                                                                                                                 | 1948-2020, 9999 | <a href="#">60-64, 66, 71, 72, 78</a> |
| 890   | Medium/Heavy - COE entry position unknown | --                                                                                                                                 | 1964-2019, 9999 | <a href="#">60-64, 66, 71, 72, 78</a> |
| 898   | Other (medium/heavy truck)                | Fire truck - R140-R306, CO 8190                                                                                                    | 1955-2019, 9999 | <a href="#">60-64, 66, 71, 72, 78</a> |

## BUSES

| Codes | NCSA Models                            | Includes                      | Model Years     | NCSA Body Types             |
|-------|----------------------------------------|-------------------------------|-----------------|-----------------------------|
| 981   | Bus**: Conventional (Engine out front) | R153-1853 Loadstar, 1603-1853 | 1953-2020, 9999 | <a href="#">50-52,58,59</a> |
| 982   | Bus: Front engine, Flat front          | 173FC, 183FC                  | 1972-2020, 9999 | <a href="#">50-52,58,59</a> |
| 983   | Bus**: Rear engine, Flat front         | 183RE, 193RE-transit          | 1965-2019, 9999 | <a href="#">50-52,58,59</a> |
| 988   | Other (bus)                            | --                            | 1953-2019, 9999 | <a href="#">50-52,58,59</a> |
| 989   | Unknown (bus)                          | --                            | 1953-2020, 9999 | <a href="#">50-52,58,59</a> |

**\*\*Use code “989” (bus) if the frontal plane or the engine location is unknown.**

**MOTOR HOME**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|--------------------|-----------------|--------------------|------------------------|
| 850          | Motor Home         | Truck based     | 1965-2019, 9999    | <a href="#">65,73</a>  |

**OTHER AND UNKNOWN VEHICLE**

| <b>Codes</b> | <b>NCSA Models</b>                        | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>   |
|--------------|-------------------------------------------|-----------------|--------------------|--------------------------|
| 998          | Other (vehicle)                           | --              | 1954-2020, 9999    | <a href="#">92,93,97</a> |
| 999          | Unknown (INTL.<br>HARVESTER/<br>NAVISTAR) | --              | 1951-2020, 9999    | <a href="#">79, 99</a>   |

**NCSA MAKE: Kenworth (85) (KW)****MEDIUM/HEAVY TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b>                           | <b>Includes</b>                                        | <b>Model Years</b> | <b>NCSA Body Types</b>                |
|--------------|----------------------------------------------|--------------------------------------------------------|--------------------|---------------------------------------|
| 881          | Medium/Heavy - CBE                           | 520, 540, T400, T600,<br>T800, C500-550,<br>W900, T300 | 1947-2020, 9999    | <a href="#">60-64, 66, 71, 72, 78</a> |
| 882          | Medium/Heavy - COE low<br>entry              | L700                                                   | 1972-2018, 9999    | <a href="#">60-64, 66, 71, 72, 78</a> |
| 883          | Medium/Heavy - COE<br>high entry             | K100, K100E, K270,<br>K300, K350                       | 1965-2018, 9999    | <a href="#">60-64, 66, 71, 72, 78</a> |
| 884          | Medium/Heavy - Unknown<br>engine location    | --                                                     | 1954-2020, 9999    | <a href="#">60-64, 66, 71, 72, 78</a> |
| 890          | Medium/Heavy - COE<br>entry position unknown | --                                                     | 1964-2019, 9999    | <a href="#">60-64, 66, 71, 72, 78</a> |
| 898          | Other (medium/heavy<br>truck)                | --                                                     | 1965-2020, 9999    | <a href="#">60-64, 66, 71, 72, 78</a> |

**BUSES**

| <b>Codes</b> | <b>NCSA Models</b>                        | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>      |
|--------------|-------------------------------------------|-----------------|--------------------|-----------------------------|
| 981          | Bus**: Conventional<br>(Engine out front) | --              | 1965-2004, 9999    | <a href="#">50-52,58,59</a> |
| 982          | Bus: Front engine, Flat<br>front          | --              | 1965-2004, 9999    | <a href="#">50-52,58,59</a> |
| 983          | Bus: Rear engine, Flat<br>front           | --              | 1965-2004, 9999    | <a href="#">50-52,58,59</a> |

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>      |
|--------------|--------------------|-----------------|--------------------|-----------------------------|
| 988          | Other (bus)        | --              | 1965-2004, 9999    | <a href="#">50-52,58,59</a> |
| 989          | Unknown (bus)      | --              | 1965-2004, 9999    | <a href="#">50-52,58,59</a> |

**\*\*Use code “989” (bus) if the frontal plane or the engine location is unknown.**

#### **MOTOR HOME**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|--------------------|-----------------|--------------------|------------------------|
| 850          | Motor Home         | --              | 1965-2019, 9999    | <a href="#">65,73</a>  |

#### **OTHER AND UNKNOWN VEHICLE**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>   |
|--------------|--------------------|-----------------|--------------------|--------------------------|
| 998          | Other (vehicle)    | --              | 1965-2020, 9999    | <a href="#">92,93,97</a> |
| 999          | Unknown (KENWORTH) | --              | 1965-2020, 9999    | <a href="#">99</a>       |

#### ***NCSA MAKE: Mack (86) (MACK)***

#### **MEDIUM/HEAVY TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b>                        | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>                |
|--------------|-------------------------------------------|-----------------|--------------------|---------------------------------------|
| 881          | Medium/Heavy - CBE                        | --              | 1968-2020, 9999    | <a href="#">60-64, 66, 71, 72, 78</a> |
| 882          | Medium/Heavy - COE low entry              | --              | 1965-2019, 9999    | <a href="#">60-64, 66, 71, 72, 78</a> |
| 883          | Medium/Heavy - COE high entry             | --              | 1977-2019, 9999    | <a href="#">60-64, 66, 71, 72, 78</a> |
| 884          | Medium/Heavy - Unknown engine location    | --              | 1956-2020, 9999    | <a href="#">60-64, 66, 71, 72, 78</a> |
| 890          | Medium/Heavy - COE entry position unknown | --              | 1972-2019, 9999    | <a href="#">60-64, 66, 71, 72, 78</a> |
| 898          | Other (medium/heavy truck)                | --              | 1971-2020, 9999    | <a href="#">60-64, 66, 71, 72, 78</a> |

#### **BUSES**

| <b>Codes</b> | <b>NCSA Models</b>                     | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>      |
|--------------|----------------------------------------|-----------------|--------------------|-----------------------------|
| 981          | Bus**: Conventional (Engine out front) | --              | 1965-2004, 9999    | <a href="#">50-52,58,59</a> |
| 982          | Bus: Front engine, Flat front          | --              | 1976-2004, 9999    | <a href="#">50-52,58,59</a> |
| 983          | Bus: Rear engine, Flat front           | --              | 1965-2004, 9999    | <a href="#">50-52,58,59</a> |

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>      |
|--------------|--------------------|-----------------|--------------------|-----------------------------|
| 988          | Other (bus)        | --              | 1965-2004, 9999    | <a href="#">50-52,58,59</a> |
| 989          | Unknown (bus)      | --              | 1965-2004, 9999    | <a href="#">50-52,58,59</a> |

**\*\*Use code “989” (bus) if the frontal plane or the engine location is unknown.**

#### **MOTOR HOME**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|--------------------|-----------------|--------------------|------------------------|
| 850          | Motor Home         | --              | 1965-2019, 9999    | <a href="#">65,73</a>  |

#### **OTHER AND UNKNOWN VEHICLE**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>   |
|--------------|--------------------|-----------------|--------------------|--------------------------|
| 998          | Other (vehicle)    | --              | 1965-2020, 9999    | <a href="#">92,93,97</a> |
| 999          | Unknown (MACK)     | --              | 1965-2020, 9999    | <a href="#">99</a>       |

#### ***NCSA MAKE: Iveco/Magirus\* (88) (IVEC)***

#### **MEDIUM/HEAVY TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b>                        | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>                |
|--------------|-------------------------------------------|-----------------|--------------------|---------------------------------------|
| 881          | Medium/Heavy - CBE                        | LCF             | 1980-91,9999       | <a href="#">60-64, 66, 71, 72, 78</a> |
| 882          | Medium/Heavy - COE low entry              | FL, FS          | 1980-91,9999       | <a href="#">60-64, 66, 71, 72, 78</a> |
| 883          | Medium/Heavy - COE high entry             | --              | 1980-91,9999       | <a href="#">60-64, 66, 71, 72, 78</a> |
| 884          | Medium/Heavy - Unknown engine location    | --              | 1980-91,9999       | <a href="#">60-64, 66, 71, 72, 78</a> |
| 890          | Medium/Heavy - COE entry position unknown | --              | 1980-91,9999       | <a href="#">60-64, 66, 71, 72, 78</a> |
| 898          | Other (medium/heavy truck)                | --              | 1980-91,9999       | <a href="#">60-64, 66, 71, 72, 78</a> |

#### **BUSES**

| <b>Codes</b> | <b>NCSA Models</b>                     | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>      |
|--------------|----------------------------------------|-----------------|--------------------|-----------------------------|
| 981          | Bus**: Conventional (Engine out front) | --              | 1980-91, 9999      | <a href="#">50-52,58,59</a> |
| 982          | Bus: Front engine, Flat front          | --              | 1980-91, 9999      | <a href="#">50-52,58,59</a> |
| 983          | Bus: Rear engine, Flat front           | --              | 1980-91, 9999      | <a href="#">50-52,58,59</a> |
| 988          | Other (bus)                            | --              | 1980-91, 9999      | <a href="#">50-52,58,59</a> |

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>      |
|--------------|--------------------|-----------------|--------------------|-----------------------------|
| 989          | Unknown (bus)      | --              | 1980-91, 9999      | <a href="#">50-52,58,59</a> |

**\*\*Use code “989” (bus) if the frontal plane or the engine location is unknown.**

#### **MOTOR HOME**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|--------------------|-----------------|--------------------|------------------------|
| 850          | Motor Home         | --              | 1980-91,9999       | <a href="#">65,73</a>  |

#### **OTHER AND UNKNOWN VEHICLE**

| <b>Codes</b> | <b>NCSA Models</b>      | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>   |
|--------------|-------------------------|-----------------|--------------------|--------------------------|
| 998          | Other (vehicle)         | --              | 1980-91,9999       | <a href="#">92,93,97</a> |
| 999          | Unknown (IVECO/MAGIRUS) | --              | 1980-91,9999       | <a href="#">99</a>       |

**\* Magirus stopped production in 1985; Iveco stopped production in 1991.**

#### ***NCSA MAKE: Peterbilt (87) (PTRB)***

#### **MEDIUM/HEAVY TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b>                        | <b>Includes</b>   | <b>Model Years</b> | <b>NCSA Body Types</b>                |
|--------------|-------------------------------------------|-------------------|--------------------|---------------------------------------|
| 881          | Medium/Heavy - CBE                        | 357-379, 387, 385 | 1974-2020, 9999    | <a href="#">60-64, 66, 71, 72, 78</a> |
| 882          | Medium/Heavy - COE low entry              | 270               | 1965-2019, 9999    | <a href="#">60-64, 66, 71, 72, 78</a> |
| 883          | Medium/Heavy - COE high entry             | 362, 320          | 1965-2019, 9999    | <a href="#">60-64, 66, 71, 72, 78</a> |
| 884          | Medium/Heavy - Unknown engine location    | --                | 1961-2020, 9999    | <a href="#">60-64, 66, 71, 72, 78</a> |
| 890          | Medium/Heavy - COE entry position unknown | --                | 1964-2019, 9999    | <a href="#">60-64, 66, 71, 72, 78</a> |
| 898          | Other (medium/heavy truck)                | --                | 1965-2020, 9999    | <a href="#">60-64, 66, 71, 72, 78</a> |

#### **BUSES**

| <b>Codes</b> | <b>NCSA Models</b>                     | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>      |
|--------------|----------------------------------------|-----------------|--------------------|-----------------------------|
| 981          | Bus**: Conventional (Engine out front) | --              | 1965-2004, 9999    | <a href="#">50-52,58,59</a> |
| 982          | Bus: Front engine, Flat front          | --              | 1965-2004, 9999    | <a href="#">50-52,58,59</a> |
| 983          | Bus: Rear engine, Flat front           | --              | 1965-2004, 9999    | <a href="#">50-52,58,59</a> |

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>      |
|--------------|--------------------|-----------------|--------------------|-----------------------------|
| 988          | Other (bus)        | --              | 1965-2004, 9999    | <a href="#">50-52,58,59</a> |
| 989          | Unknown (bus)      | --              | 1965-2004, 9999    | <a href="#">50-52,58,59</a> |

**\*\*Use code “989” (bus) if the frontal plane or the engine location is unknown.**

#### **MOTOR HOME**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|--------------------|-----------------|--------------------|------------------------|
| 850          | Motor Home         | --              | 1965-2019, 9999    | <a href="#">65,73</a>  |

#### **OTHER AND UNKNOWN VEHICLE**

| <b>Codes</b> | <b>NCSA Models</b>  | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>   |
|--------------|---------------------|-----------------|--------------------|--------------------------|
| 998          | Other (vehicle)     | --              | 1965-2020, 9999    | <a href="#">92,93,97</a> |
| 999          | Unknown (PETERBILT) | --              | 1965-2020, 9999    | <a href="#">99</a>       |

#### ***NCSA MAKE: White/Autocar-White/GMC (89) (WHIT) - (WHGM)***

#### **MEDIUM/HEAVY TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b>                        | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>                |
|--------------|-------------------------------------------|-----------------|--------------------|---------------------------------------|
| 881          | Medium/Heavy - CBE                        | --              | 1965-2019, 9999    | <a href="#">60-64, 66, 71, 72, 78</a> |
| 882          | Medium/Heavy - COE low entry              | --              | 1968-2019, 9999    | <a href="#">60-64, 66, 71, 72, 78</a> |
| 883          | Medium/Heavy - COE high entry             | --              | 1965-2019, 9999    | <a href="#">60-64, 66, 71, 72, 78</a> |
| 884          | Medium/Heavy - Unknown engine location    | --              | 1963-2019, 9999    | <a href="#">60-64, 66, 71, 72, 78</a> |
| 890          | Medium/Heavy - COE entry position unknown | --              | 1965-2019, 9999    | <a href="#">60-64, 66, 71, 72, 78</a> |
| 898          | Other (medium/heavy truck)                | --              | 1965-2019, 9999    | <a href="#">60-64, 66, 71, 72, 78</a> |

## BUSES

| Codes | NCSA Models                            | Includes | Model Years     | NCSA Body Types             |
|-------|----------------------------------------|----------|-----------------|-----------------------------|
| 981   | Bus**: Conventional (Engine out front) | --       | 1965-2019, 9999 | <a href="#">50-52,58,59</a> |
| 982   | Bus: Front engine, Flat front          | --       | 1965-2019, 9999 | <a href="#">50-52,58,59</a> |
| 983   | Bus: Rear engine, Flat front           | --       | 1965-2019, 9999 | <a href="#">50-52,58,59</a> |
| 988   | Other (bus)                            | --       | 1965-2019, 9999 | <a href="#">50-52,58,59</a> |
| 989   | Unknown (bus)                          | --       | 1965-2019, 9999 | <a href="#">50-52,58,59</a> |

**\*\*Use code “989” (bus) if the frontal plane or the engine location is unknown.**

## MOTOR HOME

| Codes | NCSA Models | Includes | Model Years     | NCSA Body Types       |
|-------|-------------|----------|-----------------|-----------------------|
| 850   | Motor Home  | --       | 1965-2019, 9999 | <a href="#">65,73</a> |

## OTHER AND UNKNOWN VEHICLE

| Codes | NCSA Models                       | Includes | Model Years     | NCSA Body Types          |
|-------|-----------------------------------|----------|-----------------|--------------------------|
| 998   | Other (vehicle)                   | --       | 1963-2019, 9999 | <a href="#">92,93,97</a> |
| 999   | Unknown (WHITE/AUTOCAR-WHITE/GMC) | --       | 1963-2019, 9999 | <a href="#">99</a>       |

## Buses

### NOTES:

- Refer to the [PASSENGER VEHICLE](#) section for buses manufactured by [Chevy](#), [Dodge](#), [Ford](#), [GMC](#), [Grumman](#), [Isuzu](#), [Mercedes](#), [Mitsubishi](#), and [Volvo](#).
- Refer to the [TRUCK](#) section for buses manufactured by [Brockway](#), [Diamond Reo](#), [Freightliner](#), [FWD](#), [International Harvester](#), [Kenworth](#), [Mack](#), [Peterbilt](#), and [White/Autocar-White/GMC](#).
- Refer to the [OTHER MAKE](#) section for buses manufactured by [Neoplan](#), [Carpenter Industries](#), [DINA](#), [Mid Bus](#), [Orion](#), and [Van Hool](#).
- [Hino and Scania buses](#) are located under [OTHER MAKE \(Medium/Heavy Trucks\)](#) since those manufacturers also make trucks.

### ***NCSA MAKE: Bluebird (90) (BLUI)***

#### LIGHT TRUCKS

| Codes | NCSA Models | Includes                          | Model Years     | NCSA Body Types    |
|-------|-------------|-----------------------------------|-----------------|--------------------|
| 461   | Van Based   | van-based school bus, shuttle bus | 1927-2019, 9999 | <a href="#">21</a> |

#### BUSES

| Codes | NCSA Models                            | Includes | Model Years     | NCSA Body Types             |
|-------|----------------------------------------|----------|-----------------|-----------------------------|
| 981   | Bus**: Conventional (Engine out front) | --       | 1927-2021, 9999 | <a href="#">50-52,58,59</a> |
| 982   | Bus: Front engine, Flat front          | --       | 1927-2020, 9999 | <a href="#">50-52,58,59</a> |
| 983   | Bus: Rear engine, Flat front           | --       | 1927-2020, 9999 | <a href="#">50-52,58,59</a> |
| 988   | Other (bus)                            | --       | 1927-2020, 9999 | <a href="#">50-52,58,59</a> |
| 989   | Unknown (bus)                          | --       | 1927-2020, 9999 | <a href="#">50-52,58,59</a> |

**\*\*Use code “989” (bus) if the frontal plane or the engine location is unknown.**



**UNKNOWN**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|--------------------|-----------------|--------------------|------------------------|
| 999          | Unknown (BLUEBIRD) | --              | 1927-2021, 9999    | <a href="#">99</a>     |

**NCSA MAKE: Eagle Coach (91)****BUSES**

| <b>Codes</b> | <b>NCSA Models</b>                     | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>      |
|--------------|----------------------------------------|-----------------|--------------------|-----------------------------|
| 981          | Bus**: Conventional (Engine out front) | --              | 1948-2001, 9999    | <a href="#">50-52,58,59</a> |
| 982          | Bus: Front engine, Flat front          | --              | 1948-2001, 9999    | <a href="#">50-52,58,59</a> |
| 983          | Bus: Rear engine, Flat front           | --              | 1948-2001, 9999    | <a href="#">50-52,58,59</a> |
| 988          | Other (bus)                            | --              | 1948-2001, 9999    | <a href="#">50-52,58,59</a> |
| 989          | Unknown (bus)                          | --              | 1948-2001, 9999    | <a href="#">50-52,58,59</a> |

**\*\*Use code “989” (bus) if the frontal plane or the engine location is unknown.**

**NCSA MAKE: Gillig (92)****BUSES**

| <b>Codes</b> | <b>NCSA Models</b>                     | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>      |
|--------------|----------------------------------------|-----------------|--------------------|-----------------------------|
| 981          | Bus**: Conventional (Engine out front) | --              | 1932-2019, 9999    | <a href="#">50-52,58,59</a> |
| 982          | Bus: Front engine, Flat front          | --              | 1932-2019, 9999    | <a href="#">50-52,58,59</a> |
| 983          | Bus: Rear engine, Flat front           | --              | 1932-2019, 9999    | <a href="#">50-52,58,59</a> |
| 988          | Other (bus)                            | --              | 1932-2019, 9999    | <a href="#">50-52,58,59</a> |
| 989          | Unknown (bus)                          | --              | 1932-2019, 9999    | <a href="#">50-52,58,59</a> |

**\*\*Use code “989” (bus) if the frontal plane or the engine location is unknown.**

**NCSA MAKE: MCI (93) (MCIN)****BUSES**

| <b>Codes</b> | <b>NCSA Models</b>                     | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>      |
|--------------|----------------------------------------|-----------------|--------------------|-----------------------------|
| 981          | Bus**: Conventional (Engine out front) | --              | 1963-2019, 9999    | <a href="#">50-52,58,59</a> |
| 982          | Bus: Front engine, Flat front          | --              | 1963-2019, 9999    | <a href="#">50-52,58,59</a> |
| 983          | Bus: Rear engine, Flat front           | --              | 1963-2019, 9999    | <a href="#">50-52,58,59</a> |
| 988          | Other (bus)                            | --              | 1963-2019, 9999    | <a href="#">50-52,58,59</a> |
| 989          | Unknown (bus)                          | --              | 1963-2019, 9999    | <a href="#">50-52,58,59</a> |

**\*\*Use code “989” (bus) if the frontal plane or the engine location is unknown.**

**NCSA MAKE: Thomas Built (94) (THMS)****LIGHT TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b>                   | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|--------------------|-----------------------------------|--------------------|------------------------|
| 461          | Van Based          | van-based school bus, shuttle bus | 1936-2019, 9999    | <a href="#">21</a>     |

**BUSES**

| <b>Codes</b> | <b>NCSA Models</b>                     | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>      |
|--------------|----------------------------------------|-----------------|--------------------|-----------------------------|
| 981          | Bus**: Conventional (Engine out front) | --              | 1936-2020, 9999    | <a href="#">50-52,58,59</a> |
| 982          | Bus: Front engine, Flat front          | --              | 1936-2019, 9999    | <a href="#">50-52,58,59</a> |
| 983          | Bus: Rear engine, Flat front           | --              | 1936-2019, 9999    | <a href="#">50-52,58,59</a> |
| 988          | Other (bus)                            | --              | 1936-2019, 9999    | <a href="#">50-52,58,59</a> |
| 989          | Unknown (bus)                          | --              | 1936-2019, 9999    | <a href="#">50-52,58,59</a> |

**\*\*Use code “989” (bus) if the frontal plane or the engine location is unknown.**

**UNKNOWN**

| <b>Codes</b> | <b>NCSA Models</b>     | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|------------------------|-----------------|--------------------|------------------------|
| 999          | Unknown (THOMAS BUILT) | --              | 1936-2019, 9999    | <a href="#">99</a>     |

## Other Make

### NCSA MAKE: Other Make \* (98)

#### AUTOMOBILES

(Unknown if DOMESTIC or FOREIGN) \*\*

| Codes | NCSA Models        | Includes                   | Model Years     | NCSA Body Types                               |
|-------|--------------------|----------------------------|-----------------|-----------------------------------------------|
| 301   | Think              | City                       | 2009-15, 9999   | <a href="#">03</a>                            |
| 302   | Meyers Motor       | NmG                        | 2008-15, 9999   | <a href="#">02</a>                            |
| 398   | Other (automobile) | Solectra (electric: Force) | 1945-2019, 9999 | <a href="#">01-09</a> , <a href="#">10-13</a> |

**\*\*Do not use Other Make (98) if [Other Domestic \(29\)](#) or [Other Import \(69\)](#) is applicable.**

#### LIGHT TRUCKS

| Codes | NCSA Models         | Includes                           | Model Years     | NCSA Body Types                                                                                                                                                                            |
|-------|---------------------|------------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 498   | Other (light truck) | Solectra (electric: Citivan Flash) | 1960-2019, 9999 | <a href="#">14-16,19</a> , <a href="#">20-22</a> , <a href="#">28,29</a> , <a href="#">33,34</a> , <a href="#">39</a> , <a href="#">40,41</a> , <a href="#">42</a> , <a href="#">45,48</a> |

#### LSV/NEV

| Codes | NCSA Models     | Includes                | Model Years   | NCSA Body Types    |
|-------|-----------------|-------------------------|---------------|--------------------|
| 598   | Other (LSV/NEV) | Tomberlin, Ford, Fly Bo | 2000-20, 9999 | <a href="#">94</a> |

#### MOTORCYCLES

| Codes | NCSA Models | Includes                                                                                                                                                                                                              | Model Years     | NCSA Body Types             |
|-------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------|
| 701   | 0-50cc      | ATK, Beta, Buell, Cagiva, Cobra Trike, Jawa, Husqvarna, KTM, Aprilia, Maely, Riva, Strociek, BMC, MV Agusta, Bimota, Husaberg, Indian Scout, Indian, Laverda, Big Dog, Polaris, Titan, Twin Eagle, Viza, Vespa, Viper | 1965-2020, 9999 | <a href="#">80,81,84-89</a> |
| 702   | 51-124cc    | --                                                                                                                                                                                                                    | 1965-2020, 9999 | <a href="#">80-89</a>       |
| 703   | 125-349cc   | --                                                                                                                                                                                                                    | 1965-2020, 9999 | <a href="#">80-89</a>       |

| <b>Codes</b> | <b>NCSA Models</b>  | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|---------------------|-----------------|--------------------|------------------------|
| 704          | 350-449cc           | --              | 1965-2020, 9999    | <a href="#">80-89</a>  |
| 705          | 450-749cc           | --              | 1965-2020, 9999    | <a href="#">80-89</a>  |
| 706          | 750cc or greater    | --              | 1965-2020, 9999    | <a href="#">80-89</a>  |
| 707          | Electric Motorcycle | Zero            | 2016-20, 9999      | <a href="#">80-89</a>  |
| 709          | Unknown cc          | --              | 1945-2020, 9999    | <a href="#">80-89</a>  |

#### **ALL TERRAIN VEHICLES**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|--------------------|-----------------|--------------------|------------------------|
| 731          | 0-50cc             | --              | 1965-2020, 9999    | <a href="#">90, 96</a> |
| 732          | 51-124cc           | --              | 1965-2020, 9999    | <a href="#">90, 96</a> |
| 733          | 125-349cc          | --              | 1965-2020, 9999    | <a href="#">90, 96</a> |
| 734          | 350cc or greater   | --              | 1965-2020, 9999    | <a href="#">90, 96</a> |
| 739          | Unknown cc         | --              | 1965-2020, 9999    | <a href="#">90, 96</a> |

#### **MEDIUM/HEAVY TRUCKS**

| <b>Codes</b> | <b>NCSA Models</b>           | <b>Includes</b>           | <b>Model Years</b> | <b>NCSA Body Types</b>                             |
|--------------|------------------------------|---------------------------|--------------------|----------------------------------------------------|
| 802          | Auto-Union-DKW               | --                        | 1965-88, 9999      | <a href="#">60-64, 66, 71, 72, 78</a>              |
| 803          | Divco                        | --                        | 1963-88, 9999      | <a href="#">60-64, 66, 71, 72, 78</a>              |
| 804          | Western Star                 | --                        | 1965-2020, 9999    | <a href="#">60-64, 66, 71, 72, 78</a>              |
| 805          | Oshkosh                      | (includes trucks & buses) | 1965-2019, 9999    | <a href="#">50,52-59, 60-64, 66, 71, 72, 78</a>    |
| 806          | Hino                         | (includes trucks & buses) | 1985-2020, 9999    | <a href="#">50-52,58,59, 60-64, 66, 71, 72, 78</a> |
| 807          | Scania                       | (includes trucks & buses) | 1986-2004, 9999    | <a href="#">50-52,58,59, 60-64, 66, 71, 72, 78</a> |
| 808          | UD                           | --                        | 1986-2013, 9999    | <a href="#">60-64, 66, 71, 72, 78</a>              |
| 809          | Sterling                     | --                        | 1998-2010, 9999    | <a href="#">60-64, 66, 67, 71, 72, 78</a>          |
| 881          | Medium/Heavy - CBE           | DINA                      | 1965-2019, 9999    | <a href="#">60-64, 66, 71, 72, 78</a>              |
| 882          | Medium/Heavy - COE low entry | DINA                      | 1965-2019, 9999    | <a href="#">60-64, 66, 71, 72, 78</a>              |

| <b>Codes</b> | <b>NCSA Models</b>                        | <b>Includes</b>             | <b>Model Years</b> | <b>NCSA Body Types</b>                |
|--------------|-------------------------------------------|-----------------------------|--------------------|---------------------------------------|
| 883          | Medium/Heavy - COE high entry             | --                          | 1965-2019, 9999    | <a href="#">60-64, 66, 71, 72, 78</a> |
| 884          | Medium/Heavy - Unknown engine location    | --                          | 1965-2019, 9999    | <a href="#">60-64, 66, 71, 72, 78</a> |
| 870          | Medium/Heavy Van-Based Vehicle            | --                          | 1965-2019, 9999    | <a href="#">55, 61-64</a>             |
| 890          | Medium/Heavy - COE entry position unknown | --                          | 1965-2019, 9999    | <a href="#">60-64, 66, 71, 72, 78</a> |
| 898          | Other (medium/heavy truck)                | e.g., Marmon, Ward LaFrance | 1945-2019, 9999    | <a href="#">60-64, 66, 71, 72, 78</a> |

## **BUSES**

| <b>Codes</b> | <b>NCSA Models</b>                      | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>          |
|--------------|-----------------------------------------|-----------------|--------------------|---------------------------------|
| 902          | Neoplan                                 | --              | 1950-2019, 9999    | <a href="#">50-52,58,59</a>     |
| 903          | Carpenter                               | --              | 1923-2000, 9999    | <a href="#">21, 50-52,58,59</a> |
| 904          | Collins Bus                             | --              | 1967-2012, 9999    | <a href="#">21</a>              |
| 905          | DINA                                    | --              | 1989-2004, 9999    | <a href="#">50-52,58,59</a>     |
| 906          | Mid Bus                                 | --              | 1963-2008, 9999    | <a href="#">21</a>              |
| 907          | Orion                                   | --              | 1978-2013, 9999    | <a href="#">50-52,58,59</a>     |
| 908          | Van Hool                                | --              | 1947-2019, 9999    | <a href="#">50-52,58,59</a>     |
| 981          | Bus***: Conventional (Engine out front) | --              | 1965-2019, 9999    | <a href="#">50-52,58,59</a>     |
| 982          | Bus: Front engine, Flat front           | --              | 1976-2019, 9999    | <a href="#">50-52,58,59</a>     |
| 983          | Bus: Rear engine, Flat front            | --              | 1965-2019, 9999    | <a href="#">50-52,58,59</a>     |
| 988          | Other (bus)                             | --              | 1945-2019, 9999    | <a href="#">50-52,58,59</a>     |

## **MOTOR HOME**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|--------------------|-----------------|--------------------|------------------------|
| 850          | Motor Home         | --              | 1965-2019, 9999    | <a href="#">65,73</a>  |

## OTHER AND UNKNOWN VEHICLES

| Codes | NCSA Models          | Includes | Model Years     | NCSA Body Types             |
|-------|----------------------|----------|-----------------|-----------------------------|
| 998   | Other (vehicle)      | --       | 1940-2020, 9999 | <a href="#">91-93,95-97</a> |
| 999   | Unknown (OTHER MAKE) | --       | 1940-2020, 9999 | <a href="#">49, 79, 99</a>  |

**\*Occurs when make is not explicitly listed here.**

**\*\*Do not use Other Make (98) if [Other Domestic \(29\)](#) or [Other Import \(69\)](#) is applicable.**

**\*\*\*Use code “989” (bus) if the frontal plane or the engine location is unknown.**

## Unknown Make

### *NCSA MAKE: Unknown Make (99)*

#### **AUTOMOBILES**

| <b>Codes</b> | <b>NCSA Models</b>   | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>                        |
|--------------|----------------------|-----------------|--------------------|-----------------------------------------------|
| 399          | Unknown (automobile) | --              | 1945-2019, 9999    | <a href="#">01-09</a> , <a href="#">10-13</a> |

#### ***LIGHT TRUCKS***

| <b>Codes</b> | <b>NCSA Models</b>    | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>                                                                                                                                             |
|--------------|-----------------------|-----------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 499          | Unknown (light truck) | --              | 1945-2019, 9999    | <a href="#">14-16</a> , <a href="#">19</a> , <a href="#">20-22</a> , <a href="#">28,29</a> , <a href="#">33,34,39</a> , <a href="#">42</a> , <a href="#">45,48</a> |

#### **LSV/NEV**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|--------------------|-----------------|--------------------|------------------------|
| 599          | Unknown (LSV/NEV)  | --              | 2000-19, 9999      | <a href="#">94</a>     |

#### **MOTORCYCLES**

| <b>Codes</b> | <b>NCSA Models</b>  | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|---------------------|-----------------|--------------------|------------------------|
| 701          | 0-50cc              | --              | 1965-2019, 9999    | <a href="#">80-89</a>  |
| 702          | 51-124cc            | --              | 1965-2019, 9999    | <a href="#">80-89</a>  |
| 703          | 125-349cc           | --              | 1965-2019, 9999    | <a href="#">80-89</a>  |
| 704          | 350-449cc           | --              | 1965-2019, 9999    | <a href="#">80-89</a>  |
| 705          | 450-749cc           | --              | 1965-2019, 9999    | <a href="#">80-89</a>  |
| 706          | 750cc or greater    | --              | 1965-2019, 9999    | <a href="#">80-89</a>  |
| 707          | Electric Motorcycle | --              | 2017-19, 9999      | <a href="#">80-89</a>  |
| 709          | Unknown cc          | --              | 1945-2019, 9999    | <a href="#">80-89</a>  |



## ALL TERRAIN VEHICLES

| Codes | NCSA Models      | Includes | Model Years     | NCSA Body Types                         |
|-------|------------------|----------|-----------------|-----------------------------------------|
| 731   | 0-50cc           | --       | 1965-2019, 9999 | <a href="#">90</a> , <a href="#">96</a> |
| 732   | 51-124cc         | --       | 1965-2019, 9999 | <a href="#">90</a> , <a href="#">96</a> |
| 733   | 125-349cc        | --       | 1965-2019, 9999 | <a href="#">90</a> , <a href="#">96</a> |
| 734   | 350cc or greater | --       | 1965-2019, 9999 | <a href="#">90</a> , <a href="#">96</a> |
| 739   | Unknown cc       | --       | 1965-2019, 9999 | <a href="#">90</a> , <a href="#">96</a> |

## MEDIUM/HEAVY TRUCKS

| Codes | NCSA Models                               | Includes | Model Years     | NCSA Body Types                            |
|-------|-------------------------------------------|----------|-----------------|--------------------------------------------|
| 870   | Medium Heavy Van-Based Vehicle            | --       | 1965-2019, 9999 | <a href="#">55</a> , <a href="#">61-64</a> |
| 881   | Medium/Heavy - CBE                        | --       | 1965-2019, 9999 | <a href="#">60-64,66,71,72,78</a>          |
| 882   | Medium/Heavy - COE low entry              | --       | 1965-2019, 9999 | <a href="#">60-64,66,71,72,78</a>          |
| 883   | Medium/Heavy - COE high entry             | --       | 1965-2019, 9999 | <a href="#">60-64,66,71,72,78</a>          |
| 884   | Medium/Heavy - Unknown engine location    | --       | 1965-2019, 9999 | <a href="#">60-64,66,71,72,78</a>          |
| 890   | Medium/Heavy - COE entry position unknown | --       | 1965-2019, 9999 | <a href="#">60-64,66,71,72,78</a>          |
| 898   | Other (medium/heavy truck)                | --       | 1965-2019, 9999 | <a href="#">60-64,66,71,72,78</a>          |

## BUSES

| Codes | NCSA Models                            | Includes | Model Years     | NCSA Body Types             |
|-------|----------------------------------------|----------|-----------------|-----------------------------|
| 981   | Bus**: Conventional (Engine out front) | --       | 1965-2019, 9999 | <a href="#">50-52,58,59</a> |
| 982   | Bus: Front engine. Flat front          | --       | 1976-2019, 9999 | <a href="#">50-52,58,59</a> |
| 983   | Bus: Rear engine, Flat front           | --       | 1965-2019, 9999 | <a href="#">50-52,58,59</a> |
| 988   | Other (bus)                            | --       | 1945-2019, 9999 | <a href="#">50-52,58,59</a> |
| 989   | Unknown (bus)                          | --       | 1945-2019, 9999 | <a href="#">50-52,58,59</a> |

\*\*Use code “989” (bus) if the frontal plane or the engine location is unknown.

**MOTOR HOME**

| <b>Codes</b> | <b>NCSA Models</b> | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b> |
|--------------|--------------------|-----------------|--------------------|------------------------|
| 850          | Motor Home         | --              | 1965-2019, 9999    | <a href="#">65, 73</a> |

**OTHER AND UNKNOWN VEHICLE**

| <b>Codes</b> | <b>NCSA Models</b>                                               | <b>Includes</b> | <b>Model Years</b> | <b>NCSA Body Types</b>       |
|--------------|------------------------------------------------------------------|-----------------|--------------------|------------------------------|
| 998          | Other (vehicle)                                                  | --              | 1945-2019, 9999    | <a href="#">91-93, 95-97</a> |
| 999          | Unknown (as to automobile, motored cycle, light truck, or truck) | --              | 1945-2019, 9999    | <a href="#">49, 79, 99</a>   |

## **Appendix G: References**

- Association of Transportation Safety Information Professionals. (2017, December 18). *Manual on classification of motor vehicle traffic crashes*, eighth edition (ANSI D16.1-2017). [www.transportation.gov/sites/dot.gov/files/docs/resources/government/traffic-records/304331/ansid16-2017.pdf](http://www.transportation.gov/sites/dot.gov/files/docs/resources/government/traffic-records/304331/ansid16-2017.pdf)
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DOT HS 813 251  
March 2022



U.S. Department  
of Transportation  
**National Highway  
Traffic Safety  
Administration**

