Part 573 Safety Recall Report 25V-138

Manufacturer Name : Motiv Power Systems
Submission Date : MAR 03, 2025
NHTSA Recall No. : 25V-138
Manufacturer Recall No. : NR

Manufacturer Information :

Manufacturer Name : Motiv Power Systems
Address : 330 Hatch Drive
Foster City CA 94404
Company phone : 650-425-3032

Population :

Number of potentially involved : 40
Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2017-2020 Motiv Gen 4 E-450 & F-59 BEV
Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES
Body Style : OTHER
Power Train : HYBRID ELECTRIC
Descriptive Information : Vehicles are BEV, not hybrid electric. This record covers School Bus vehicles.
Production Dates : JAN 01, 2017 - DEC 31, 2020
VIN Range 1 : Begin : NR End : NR ☐ Not sequential

Vehicle 2 : 2020-2023 Motiv Gen 5 E-450, F-59, & F53 BEV
Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES
Body Style : OTHER
Power Train : HYBRID ELECTRIC
Descriptive Information : Powertrain is BEV, not hybrid electric. This recall record covers school bus vehciles.
Production Dates : JAN 01, 2020 - DEC 31, 2023
VIN Range 1 : Begin : NR End : NR ☐ Not sequential

Vehicle 3 : 2023-2025 Motiv Gen 6 F-59 & F53 BEV
Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES
Body Style : OTHER
Power Train : HYBRID ELECTRIC
Descriptive Information : Vehicles are BEV, not hybrid electric. This recall record covers school bus vehicles.
Production Dates : JAN 01, 2023 - FEB 27, 2025
VIN Range 1 : Begin : NR End : NR ☐ Not sequential

Description of Defect :

Description of the Defect :	Motiv Power Systems, Inc. has determined that on certain vehicles converted to a Motiv electric powertrain, a Throttle Position Sensor (TPS) power wire connector pin at the Powertrain Control Module (PCM) connector could loosen over time, potentially resulting in loss of connection and loss of TPS signal to the PCM. This, in turn could result in a loss of vehicle propulsion.
FMVSS 1 :	NR
FMVSS 2 :	NR
Description of the Safety Risk :	Loss of propulsion while the vehicle is in motion could increase the risk of a crash.
Description of the Cause :	The incorrect operation of a wire strip tool in manufacturing could result in insufficient wire strip length and incorrect crimping of a terminal in the PCM connector, which could fail and in turn could result in a loss of connection.
Identification of Any Warning that can Occur :	None

Involved Components :

Component Name 1 :	PCM Connector
Component Description :	Connector assembly, PCM
Component Part Number :	840-107185-001

Supplier Identification :

Component Manufacturer

Name :	NR
Address :	NR
	NR
Country :	NR

Chronology :

2/17/2025: Motiv received a customer report alleging a loss of power on a Motiv Gen 5 F-59 vehicle. The customer reported a loss of propulsion while driving. Motiv immediately grounded the vehicle and began an investigation of the incident.
2/18/2025: Motiv field technicians conducted an inspection of the affected vehicle. That inspection determined the vehicle had experienced a loss of TPS signal to the PCM.

2/18 – 2/27/2025: Motiv conducted additional analysis and testing to identify a failure or malfunction that may have led to a reported loss of propulsion. The investigation determined that a PCM connector failure caused by an incorrectly crimped pin in one of the connector's sockets that in turn resulted in a loss of connection – interrupting TPS signal to the PCM. The loss of TPS signal to the PCM was responsible for the loss of vehicle propulsion.
2/28/2025 Based on its investigation and analysis, Motiv concluded that a potential safety risk could not be ruled out and decided to conduct a recall.
Motiv is currently aware of 1 field report (including warranty claims, field reports, and service reports) received in the US potentially related to this defect. Motiv is not aware of any reported crashes, injuries, or property damage in connection with the defect.

Description of Remedy :

Description of Remedy Program :	Motiv field support technicians will inspect all potentially affected vehicles to ensure proper connection of all crimps at the PCM connector. If incorrect crimping is identified, Motiv will repair or replace the PCM connector. There will be no charge for this service. In the unlikely event that the vehicle owner has previously incurred costs to remedy this potential defect, Motiv will reimburse the owner for reasonable costs of that repair. A manufacturing process solution will be implemented in production on all potentially affected new vehicle builds.
How Remedy Component Differs from Recalled Component :	New Part Number
Identify How/When Recall Condition was Corrected in Production :	Wire strip check gauge installed as of 28-Feb-2025.

Recall Schedule :

Description of Recall Schedule :	NR
Planned Dealer Notification Date :	NR - NR
Planned Owner Notification Date :	MAY 01, 2025 - MAY 02, 2025

* NR - Not Reported