

# Part 573 Safety Recall Report

## 24E-058

**Manufacturer Name :** Specialty Manufacturing Co.**Submission Date :** JUL 09, 2024**NHTSA Recall No. :** 24E-058**Manufacturer Recall No. :** NR**Manufacturer Information :****Population :****Manufacturer Name :** Specialty Manufacturing Co.**Number of potentially involved :** NR**Address :** 13501 South Ridge Drive  
Charlotte NC 28273**Estimated percentage with defect :** NR**Company phone :** 800-951-7867**Equipment Information :****Brand / Trade 1 :** Safe Fleet**Model :** Mirror Control Switch**Part No. :** X516-3ASY**Size :** NA**Function :** Mirror Control**Descriptive Information :** Switch used to control mirror position motors.**Production Dates :** JAN 01, 2021 - OCT 04, 2023**Description of Defect :****Description of the Defect :** Mirror control switches are failing due to an over-current condition that exceeds the current fuse rating of the switch.**FMVSS 1 :** NR**FMVSS 2 :** NR**Description of the Safety Risk :** Failure of switch and thermal damage.**Description of the Cause :** No root cause has been identified by either Safe Fleet or either customer reporting switch failures (Gillig - 23V-812 or Ride/BYD - 24V-374).**Identification of Any Warning that can Occur :** No warning or pre-condition found prior to switch becoming non-functional.

**Involved Components :**

Component Name : Mirror Control Switch

Component Description : Switch used to control mirror position motors.

Component Part Number : X516-3ASY

**Supplier Identification :****Component Manufacturer**

Name : Safe Fleet

Address : 319 Roske Drive  
Elkhart Indiana

Country : United States

**Chronology :**

09/09/22 A mirror adjuster failed on a customer vehicle with heavy smoke observed.

09/22/22 The failed component was sent to Safe Fleet for inspection.

5/5/23 Reported mirror switch with confirmed thermal failure (reported to Gillig by end user)

5/25/23 Provided RMA for 3 switches, internal investigation showed no root cause.

06/30/23 It was proposed to lower the rating of the protection fuse from 5A to 1A to prevent potential thermal damage to the switches.

11/22/23 GILLIG completed population analysis and identified a total of 3626 vehicles potentially affected by the defect.

11/27/23 GILLIG's Safety Committee decided to file a formal Safety recall to repair the vehicle population affected by the issue.

12/1/23 - Gillig informed Safe Fleet of it's intention to file a safety recall pertaining to the switch failures.

2/5/24 - BYD/RIDE notified Safe Fleet of failed mirror switches each of which showed thermal damage from an over-current condition.

2/9/24 - BYD/RIDE shipped defective switches to Safe Fleet for review.

2/15/24 - Safe Fleet received 2 reported failed switches back from BYD/RIDE and began analysis.

2/22/24 - Safe Fleet discussed initial findings from the 2 returned switches as well as informed BYD/RIDE of recall 23V-812 initiated by Gillig.

3/1/24 - BYD/Ride provided vehicle electrical schematics to Safe Fleet for review. No additional data was provided by BYD/Ride to Safe Fleet including any information concerning potential electrical or vehicle.

3/6/24 - Safe Fleet representative on-site at BYD/Ride customer to review vehicles. No root cause was determined or additional failures were reported at that time.

4/16/24 - Internal testing and root cause analysis complete at Safe Fleet. No root cause was determined and no switch failures observed during testing.

4/23/24 - BYD/Ride informed Safe Fleet of 3 additional switch failures. Switches were never received.

6/3/24 - Notification of NHTSA of 24V-374 by BYD/Ride.

Description of Remedy :

Description of Remedy Program :	No changes to product design or processes are planned for this product based on the failure to reproduce "thermal" failures during testing or identify a product related failure mode. Safe Fleet is providing 1A fuses to any customer who has purchased a X516-3ASY switch assembly to mitigate any over current conditions that could lead to a switch failure.
How Remedy Component Differs from Recalled Component :	No change to X516 switch - optional replacement of the supplied 5A fuse with a 1A fuse.
Identify How/When Recall Condition was Corrected in Production :	No changes to the design or manufacturing processes of the X516 switch used in the X516-3ASY assembly have been made. No additional failures have been identified by either Gillig (23V-812) or BYD/Ride (24V-374).

Recall Schedule :

Description of Recall Schedule :	NA - No recall planned for X516 switch based components at this time.
Planned Dealer Notification Date :	NR - NR
Planned Owner Notification Date :	NR - NR

Purchaser Information :

The following manufacturers purchased this defective/noncompliant equipment for possible use or installation in new motor vehicles or new items of motor vehicle equipment:

Name :	NR
Address :	NR
	NR
Country :	NR
Company Phone :	NR

\* NR - Not Reported