

Part 573 Safety Recall Report

25V-261

Manufacturer Name : Motiv Power Systems

Submission Date : APR 18, 2025

NHTSA Recall No. : 25V-261

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 : 147

Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2020-2023 Motiv Gen 5 F-53 BEV

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : ALL

Power Train : HYBRID ELECTRIC

Descriptive Information : Powertrain is full BEV, not hybrid electric. Non-School bus units.

Production Dates : JAN 01, 2020 - DEC 31, 2023

VIN Range 1 : Begin : NR End : NR

☐ Not sequential

Vehicle 2 : 2020-2023 Motiv Gen 5 F-59 BEV

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : ALL

Power Train : HYBRID ELECTRIC

Descriptive Information : Powertrain is full BEV, not hybrid electric. Non-School Bus units.

Production Dates : JAN 01, 2020 - DEC 31, 2023

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 bracket that supports a fuse box and the main power disconnect switch could fatigue over time and break, potentially resulting in the terminals on the switch making contact with conductive surfaces and causing a short that could shut down the high voltage system. This, in turn could result in a loss of vehicle power.

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 : Bracket fatigue due to the mass of the disconnect switch and vehicle vibration inputs.

Identification of Any Warning that can Occur : None.

Involved Components :

Component Name 1 : Fuse box / Shut off switch Bracket

Component Description : Fuse box / Shut off switch Bracket

Component Part Number : 600-107451-001

Supplier Identification :

Component Manufacturer

Name : NR

Address : NR

NR

Country : NR

Chronology :

3/20/2025: Motiv received a customer report alleging a loss of power on a Motiv Gen 5 F-59 vehicle. The customer reported a loss of power while driving. Motiv immediately grounded the vehicle and began an investigation of the incident.

3/21/2025: Motiv field technicians conducted an inspection of the affected vehicle. That inspection determined the vehicle had experienced a loss of power due to the terminals on the main disconnect switch shorting against other conductive surfaces.

3/21 – 4/15/2025: Motiv conducted additional analysis and testing to identify a failure or malfunction that may have led to a reported loss of power. The investigation determined that a bracket failure caused by unsupported harness weight that in turn resulted in terminals on the main disconnect switch contacting conductive surfaces and shorting – shutting down the high voltage system. The loss of high voltage was responsible for the loss of vehicle power.

4/15/2025 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 2 field reports (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 replace the bracket on all potentially affected vehicles with a more robust design. 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.
How Remedy Component Differs from Recalled Component :	Bracket Part Number
Identify How/When Recall Condition was Corrected in Production :	NR

Recall Schedule :

Description of Recall Schedule :	Planned Owner Notification Date: On or before 6/13/2025
Planned Dealer Notification Date :	NR - NR
Planned Owner Notification Date :	JUN 13, 2025 - JUN 13, 2025

* NR - Not Reported