



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

ODI RESUME

Investigation: PE24032
Prompted By: EWR Field Report Review
Date Opened: 11/05/2024 **Date:** 06/10/2025
Closed:
Investigator: Andrew Brady **Reviewer:** Joshua Neff
Approver: Tanya Topka
Subject: EVDM connector plate separation

MANUFACTURER & PRODUCT INFORMATION

Manufacturer: Daimler Trucks North America, LLC
Products: 2020 - 2025 Freightliner eCascadia 2022 - 2025 Freightliner eM2
Population: 810

Problem Description: The Electric Vehicle Distribution Module (EVDM) connector plate is separating from its housing.

FAILURE REPORT SUMMARY

	ODI	Manufacturer	EWR D&I	Other	Total	EWR Field Reports
All Incidents:	0	6	0	9	15	CONF
Crashes/Fires:	0	0	0	0	0	0
Injury Incidents:	0	0	0	0	0	0
Number of Injuries:	0	0	0	0	0	0
Fatality Incidents:	0	0	0	0	0	0
Number of Fatalities:	0	0	0	0	0	0

Description of Other:

Field reports provided in recall report (25V-046)

ACTION/SUMMARY INFORMATION

Action: This Preliminary Evaluation (PE) is closed with recall 25V046.

Summary:

The Office of Defects Investigation (ODI) opened this Preliminary Evaluation (PE) on November 6, 2024, to investigate Electric Vehicle Distribution Module (EVDM) connector plate separation on

model year (MY) 2020-2025 Freightliner eCascadia and MY2022-2025 Freightliner eM2 electric trucks. The EVDM connector plate contains multiple safety-related circuits including Anti-lock Brake System (ABS), stability control and vehicle protective mechanisms to de-energize the high-voltage propulsion system.

In January 2025, prior to Daimler Truck North America's (DTNA) final response to ODI's Information Request (IR) letter, DTNA conducted controlled testing of the EVDM. The final test results demonstrated that in certain circumstances of EVDM separation, the vehicle may lose motive power without prior warning to the driver. Based on the EVDM testing results, DTNA filed a recall (NHTSA ID 25V-046). This recall covers MY2020-2025 Freightliner eCascadia and MY2022-2026 Freightliner eM2 electric trucks. These vehicles will have the EVDM replaced if the plate shows separation from the housing. The recall chronology identified that DTNA had received nine warranty claims and six field reports for this issue.

This Preliminary Evaluation has been closed as a result of the manufacturer filing recall 25V-046. The Agency reserves the right to take additional action if warranted by future circumstances.