



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

# ODI RESUME

**Investigation:** PE24032  
**Prompted By:** EWR Review  
**Date Opened:** 11/05/2024  
**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:** 666 (Estimated)  
**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
<b>All Incidents:</b>	0	0	0	0	0	CONF
<b>Crashes/Fires:</b>	0	0	0	0	0	0
<b>Injury Incidents:</b>	0	0	0	0	0	0
<b>Number of Injuries:</b>	0	0	0	0	0	0
<b>Fatality Incidents:</b>	0	0	0	0	0	0
<b>Number of Fatalities:</b>	0	0	0	0	0	0

## ACTION/SUMMARY INFORMATION

**Action:** Open a Preliminary Evaluation (PE)

**Summary:**

The Office of Defects Investigation (ODI) is aware of Electric Vehicle Distribution Module (EVDM) connector plate separation on Model Year (MY) 2020-2025 Freightliner eCascadia and MY 2022-2025 eM2 electric trucks. The EVDM connector plate contains multiple safety-related circuits including ABS, stability control and vehicle protective mechanisms to de-energize the High

Voltage system. Separation of the EVDM connector plate can result in a loss of propulsion and increase the risk of a crash.

An ODI review of Early Warning Reporting (EWR) submissions by Daimler Truck North America (DTNA) identified vehicles describing Controller Area Network (CAN) and power faults caused by EVDM connector plate separation.

To better understand the severity and frequency of EVDM connector plate separation on the subject vehicles, a Preliminary Evaluation (PE) is being opened.