



U.S. Department
of Transportation

National Highway
Traffic Safety
Administration

Part 573 Safety Recall Report

25V622

Manufacturer Name: Mack Trucks, Inc.

Submission Date: Sep 23, 2025

NHTSA Recall No.: 25V622

Manufacturer Recall No.: SC0484

Manufacturer Information

Population

Manufacturer Name: Mack Trucks, Inc.

Address: 2100 Mack Boulevard
PO Box M
Allentown PA, 18105-5000

Total number of potentially involved: 156

Estimated percentage with defect: 8.3%

Vehicle Information

Vehicle 1: 2025-2026 MACK PIONEER (PR)

Product Category: Buses, Medium & Heavy Vehicles

Product Type: Tractor

Fuel / Propulsion: Compression Ignition Fuel

Production Dates: Oct 22, 2024 - Sep 05, 2025

Number of potentially involved: 156

Descriptive Information:

Certain Mack (PR) Pioneers were built with trailer body input modules that could contain a manufacturing defect. The population was determined by the trailer body input output module serial number assigned at the Mack assembly plant

24482702 CONTROL UNIT, TRAILER BODY I/O MODULE HIGHWAY

24482711 CONTROL UNIT, TRAILER BODY I/O MODULE FULL

Defect / Noncompliance Description

Description of the defect or noncompliance:

Certain Mack (PR) Pioneers may be equipped with a trailer body input output module, that controls lighting functions for the trailer being towed. These vehicles may contain a manufacturing defect. This defect may cause the module to have limited functionality, rendering the trailer lights inoperable and increasing the risk of a crash.

FMVSS1:

FMVSS2:

Description of the safety risk, including crash, fire, death, injury:

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If a trailer being towed experiences a loss of trailer lighting functions, vehicles around the trailer may not observe the trailer reducing speed, stopping, or changing lanes, which could lead to an increased risk of a crash.

Description of the cause:

Certain trailer body input output modules were manufactured with a bent printed circuit board assembly (PCBA) at the supplier's production facility.

Identification of any warning that can occur:

If the module is defective, the vehicle operator may receive a pop-up message indicating communication is lost with the trailer body input output module.

Component Manufacturer

Tier of Supplier: Tier 1

Supplier Type: OEM

Name: Actia Electronics Inc.

Address: 15385 Pine
Romulus MI, 48174

Country: United States

Involved Components

Component Name 1: CONTROL UNIT, TRAILER BODY I/O MODULE

Component Description: HIGHWAY

Component Part Number: 24482702

Component Name 2: CONTROL UNIT, TRAILER BODY I/O MODULE

Component Description: FULL

Component Part Number: 24482711

Chronology

January 6, 2025: A concern related to the trailer body input output module failures at our assembly plant, is brought to the Product Safety organization and an investigation is opened.

January 13, 2025: The Product Safety Evaluation Committee is informed of the investigation, and additional information is requested.

March 24, 2025: The Product Safety Evaluation Committee decides to keep the investigation open and

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monitor, after supplier testing is unable to replicate failures on parts with a possible manufacturing defect.

May 19, 2025: Field reports related to the trailer body input output module issues are brought to the Product Safety organization.

June 16, 2025: The Product Safety Evaluation Committee is informed of the new reports and requests further information from the field as well as from the supplier

September 8, 2025: The Product Safety Evaluation Committee meets and reviews investigation results and recommends that the issue be escalated to the Product Safety Committee as a potential product safety defect.

September 11, 2025: The Product Safety Committee is presented with findings from the investigation and the recommendations from the Product Safety Evaluation Committee, and makes the determination that a product safety defect exists, that a recall will be conducted, and that vehicles do not have to be parked.

September 18, 2025: Product safety defect 573/DIR filed with NHTSA.

No accidents or injuries have been reported related to this issue. There have been 0 field reports related to this defect. There have been 0 warranty claims related to this defect.

Related NHTSA Recall Number:

Description of Remedy

Remedy Type:

Consumer Advisories: ☐ Do Not Drive ☐ Park Outside

Description of remedy program:

Vehicles will be recalled. Vehicles will have the trailer body input output module replaced. 24482702, CONTROL UNIT, TRAILER BODY I/O MODULE HIGHWAY
24482711, CONTROL UNIT, TRAILER BODY I/O MODULE FULL

How remedy component differs from recalled component:

The remedy component does not have a manufacturing defect that could lead to loss of trailer light function. 24482711, CONTROL UNIT, TRAILER BODY I/O MODULE FULL

Identify how/when recall condition was corrected in production:

Parts in stock at the assembly plant had serial number inspections performed, and modules from the defective serial number list were removed. Stop shipment for affected vehicles was initiated on 9/17/25

Reimbursement Plan

Manufacturer used general reimbursement plan on file.

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Recall Schedule

Description of recall schedule:

Dealer notification will begin on or before September 25, 2025.

Owner notification will begin on or before November 17, 2025.

Planned Dealer Notification Date: Sep 25, 2025

☐ No Dealers

Planned Interim Owner Notification Date:

☐ No Owners

Planned Remedy Owner Notification Date: Nov 17, 2025

☐ Phased Recall

Date when VIN will be searchable: Sep 25, 2025