

Part 573 Safety Recall Report

25V-026

Manufacturer Name : Mack Trucks, Inc.

Submission Date : JAN 27, 2025

NHTSA Recall No. : 25V-026

Manufacturer Recall No. : SC0473



Manufacturer Information :

Manufacturer Name : Mack Trucks, Inc.

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

Company phone : 610-709-2131

Population :

Number of potentially involved : 21

Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2024-2025 Mack Pinnacle (PI/PN)

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : DIESEL

Descriptive Information : A new internal tool was developed for calculating air tank volume demand and had identified past combinations which potentially do not meet the 12 times combined volume criteria. There are 21 Mack Pinnacle (PI/PN), MY 2024-2025

Production Dates : DEC 21, 2023 - DEC 18, 2024

VIN Range 1 : Begin : 1M1PN4NYXRM001006 End : 1M1PN4NY2SM001068 ☒ Not sequential

Description of Noncompliance :

Description of the Noncompliance : The air volume calculation for system air on certain Mack models may be below the 12 times the combined volume of all service brake chambers, as required per the FMVSS 49 CFR571.121.

FMVSS 1 : 121 - Air brake systems

FMVSS 2 : NR

Description of the Safety Risk : The risk is a vehicle crash that may result in personal injury

Description of the Cause : The air volume calculation table utilized had an incorrect baseline for a subset of vehicles.

Identification of Any Warning that can Occur : There are no warnings associated with this issue.

Involved Components :

Component Name 1 : Compressed-Air Tank

Component Description : 8.1L Diam 178MM (7")

Component Part Number : 23675317

Supplier Identification :

Component Manufacturer

Name : Mack Trucks

Address : 7825 National Service Road
Greensboro North Carolina 27409-9667

Country : United States

Chronology :

Jun 7th, 2024, engineering was tasked with reviewing and improving the tool that would calculate the base air needed to comply with the regulatory air requirement.

Aug 7th, 2024, the tool improvements became operational, and development testing was started by the working team. Sep 4th, 2024, engineering started technical testing on a few variant combinations for Mack Trucks.

Sep 26th, 2024, air volume investigation was completed and a list of variant combinations built that may not meet the regulatory air requirement was identified.

Oct 31st, 2024, reviewed in Product Compliance Committee for potential non-compliance consideration, based upon preliminary testing that was completed, additional validation testing was directed.

Nov 4th, 2024, new testing work was started to validate earlier findings.

Dec 9, 2024, test results indicated that calculations reflect a positive margin in brake energy management.

Dec 11, 2024, return to Product Compliance Committee for review of results and recommendation for escalation to Product Safety Committee as a potential technical non-compliance.

Dec 16, 2024, Product Safety Committee reviews case and makes the determination to file for a non-compliance and petition for inconsequentiality as calculations indicate sufficient brake energy based upon volumetric measures and system pressures.

Jan 15, 2025, Product Safety Committee reviews new information on certain configurations with a lack of comfortable margin in brake energy management and makes determination to file for a non-compliance recall.

There have been no warranty claims, field reports, accidents or injuries reported with this issue

Description of Remedy :

Description of Remedy Program :	Vehicles will be recalled and additional air tank volume will be added to meet FMVSS 121 requirements. Reimbursement for the recall will be covered by the Manufacturer's Reimbursement Plan on file with NHTSA
How Remedy Component Differs from Recalled Component :	New air tanks will be installed which will increase the volume of air to meet the requirements.
Identify How/When Recall Condition was Corrected in Production :	Impacted vehicles will be put on shipment hold and corrected through the addition of air reservoir tanks before shipment.

Recall Schedule :

Description of Recall Schedule :	Dealer notification will begin on January 28, 2025 and owner notification will begin or before March 17, 2025.
Planned Dealer Notification Date :	JAN 28, 2025 - JAN 28, 2025
Planned Owner Notification Date :	MAR 17, 2025 - MAR 17, 2025

* NR - Not Reported