

# Part 573 Safety Recall Report

# 23V-238

**Manufacturer Name :** Daimler Trucks North America, LLC**Submission Date :** MAY 31, 2023**NHTSA Recall No. :** 23V-238**Manufacturer Recall No. :** FL970**Manufacturer Information :****Population :**

Manufacturer Name : Daimler Trucks North America, LLC

Number of potentially involved : 306

Address : 4747 N. Channel Avenue

Estimated percentage with defect : 1 %

Portland OR 97217-3849

Company phone : 800-745-8000

**Vehicle Information :**

Vehicle 1 : 2023-2023 Western Star 4700

Vehicle Type : BUSES, MEDIUM &amp; HEAVY VEHICLES

Body Style : OTHER

Power Train : DIESEL

Descriptive Information : Suspect population of front steering axles without production torque data and photo evidence of cotter pin in-place following rework operations, suspect vehicles built within the listed production date ranges.

Original DIR Model Identification:

No change

Production Dates : JAN 26, 2022 - APR 28, 2022

VIN Range 1 : Begin :

NR

End : NR

 Not sequential

Vehicle 2 : 2022-2023 Freightliner Custom Chass Van Chassis

Vehicle Type : BUSES, MEDIUM &amp; HEAVY VEHICLES

Body Style : OTHER

Power Train : DIESEL

Descriptive Information : Suspect population of front steering axles without production torque data and photo evidence of cotter pin in-place following rework operations, suspect vehicles built within the listed production date ranges.

Original DIR Model Identification:

MT45

MT50E

MT55

Production Dates : APR 13, 2022 - AUG 17, 2022

VIN Range 1 : Begin :

NR

End : NR

 Not sequential

Vehicle 3 : 2023-2023 Western Star 49X

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : DIESEL

Descriptive Information : Suspect population of front steering axles without production torque data and photo evidence of cotter pin in-place following rework operations, suspect vehicles built within the listed production date ranges.

Original DIR Model Identification:

No change

Production Dates : FEB 01, 2022 - JUL 13, 2022

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 4 : 2022-2022 Freightliner Custom Chass Shuttle Chassis

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : DIESEL

Descriptive Information : Suspect population of front steering axles without production torque data and photo evidence of cotter pin in-place following rework operations, suspect vehicles built within the listed production date ranges.

Original DIR Model Identification:

S2C 106

Production Dates : FEB 04, 2022 - FEB 04, 2022

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 5 : 2023-2023 Freightliner Cascadia

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : DIESEL

Descriptive Information : Suspect population of front steering axles without production torque data and photo evidence of cotter pin in-place following rework operations, suspect vehicles built within the listed production date ranges.

Original DIR Model Identification:

No change

Production Dates : JAN 31, 2022 - AUG 01, 2022

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 6 : 2022-2023 Freightliner Custom Chass RV Chassis

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : DIESEL

Descriptive Information : Suspect population of front steering axles without production torque data and photo evidence of cotter pin in-place following rework operations, suspect vehicles built within the listed production date ranges.

Original DIR Model Identification:

S2RV CHASSIS

XCM CHASSIS

XCR CHASSIS

XCS CHASSIS

Production Dates : JAN 21, 2022 - AUG 22, 2022

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 7 : 2023-2023 Western Star 4900

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : DIESEL

Descriptive Information : Suspect population of front steering axles without production torque data and photo evidence of cotter pin in-place following rework operations, suspect vehicles built within the listed production date ranges.

Original DIR Model Identification:

No change

Production Dates : MAR 11, 2022 - MAY 16, 2022

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 8 : 2023-2023 Western Star 47X

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : DIESEL

Descriptive Information : Suspect population of front steering axles without production torque data and photo evidence of cotter pin in-place following rework operations, suspect vehicles built within the listed production date ranges.

Original DIR Model Identification:

No change

Production Dates : FEB 10, 2022 - SEP 14, 2022

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 9 : 2023-2023 Freightliner Business Class M2

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style :

Power Train : DIESEL

Descriptive Information : Suspect population of front steering axles without production torque data and photo evidence of cotter pin in-place following rework operations, suspect vehicles built within the listed production date ranges.

Original DIR Model Identification:

108SD

114SD

M2106

M2112

Production Dates : JAN 26, 2022 - SEP 27, 2022

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 10 : 2022-2023 Freightliner Custom Chass Van Chassis Gas

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : VAN

Power Train : GAS

Descriptive Information : Suspect population of front steering axles without production torque data and photo evidence of cotter pin in-place following rework operations, suspect vehicles built within the listed production date ranges.

Original DIR Model Identification:

MT45G

MT55G

Production Dates : JAN 13, 2022 - OCT 14, 2022

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 11 : 2023-2023 Thomas Built Buses School Bus Chassis

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style :

Power Train : DIESEL

Descriptive Information : Suspect population of front steering axles without production torque data and photo evidence of cotter pin in-place following rework operations, suspect vehicles built within the listed production date ranges.

Original DIR Model Identification:

C2

Production Dates : APR 04, 2022 - APR 04, 2022

VIN Range 1 : Begin :

NR

End : NR

Not sequential

## Description of Defect :

Description of the Defect : On the affected vehicles, front steer axle tie rod castle nut cotter pin may be missing from the assembly.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : On the affected vehicles, the steer axle tie rod castle nut cotter-pin may be missing. This may result in the castle nut backing off and displacement of the taper-end from the steering arm. This may result in a loss of steering response and lack of direction control increasing the risk of crash.

Description of the Cause : Re-worked at a different station due to certain requirements, and was not manufactured through standard process involving multiple inspection points.

Identification of Any Warning that can Occur : Driver may experience some additional free-play in the steering and/or feel an improper steering alignment.

## Involved Components :

Component Name 1 : Front Steer Axle

Component Description : Tie rod castle nut cotter-pin

Component Part Number : F2-Model 2, F3-Model 3 and F5-Model 5 front steer axles

## Supplier Identification :

**Component Manufacturer**

Name : Detroit Diesel Corp  
Address : 13400 Outer Dr W  
Detroit Michigan 48239  
Country : United States

## Chronology :

Mid-February 2023, DTNA received a report on an incident involving failed tie rod assembly and opened a preliminary investigation. Upon returned failed part analysis, it was determined that the driver's side tie rod disengaged from the steering arm during low speed maneuvering. Around late February 2023 through early March 2023, DTNA identified that the subject vehicle experiencing the failure, was re-worked at a different station due to certain requirements, and was not manufactured through standard process involving multiple inspection points. In about mid-March 2023, DTNA identified a population of certain axles, that were manufactured at a rework station. DTNA opened an official investigation immediately following receiving this notice of a possible presence of a defect, and on March 29, 2023, out of an abundance of caution, DTNA decided to initiate a new voluntary safety recall to campaign all the listed vehicles. As of March 31st 2023, DTNA is aware of 1 field report and 0 warranty claims related to missing front steer axle tie rod castle nut cotter pin. DTNA is not aware of any accidents or injuries due to this defect condition. On April 7 2023, DTNA finalized the affected population after further determining precise vocational application of the vehicles. On May 26, 2023, DTNA amended the Defect Information Report to clarify and consolidate the model listing (to facilitate reading comprehension with no change to the population).

## Description of Remedy :

|  |   |
|--|---|
| Description of Remedy Program :                                  | DTNA is preparing remedy and is currently under development. Repairs will be performed free of charge by Daimler Truck North America authorized service facilities. Details of the reimbursement plan will be included in the owner's notification letter. Owners are directed to seek reimbursement through authorized dealer. |
| How Remedy Component Differs from Recalled Component :           | Presence of required cotter-pin   |
| Identify How/When Recall Condition was Corrected in Production : | 2/23/2023: 2 Quality Alerts Posted: Red Tag required 100% at first station on production line with NOK (Not Okay) operations, and Rework Alert.   |

## Recall Schedule :

|                                    |  |
|------------------------------------|--|
| Description of Recall Schedule :   | Customer notification will be made by first class mail using Daimler Trucks North America records to determine the customers affected. |
| Planned Dealer Notification Date : | JUN 04, 2023 - JUN 04, 2023  |
| Planned Owner Notification Date :  | JUN 04, 2023 - JUN 04, 2023  |

\* NR - Not Reported