

# Part 573 Safety Recall Report

# 22V-554

**Manufacturer Name :** Daimler Trucks North America, LLC**Submission Date :** OCT 11, 2022**NHTSA Recall No. :** 22V-554**Manufacturer Recall No. :** FL-949**Manufacturer Information :****Population :**

Manufacturer Name : Daimler Trucks North America, LLC

Number of potentially involved : 1,375

Address : 4747 N. Channel Avenue

Estimated percentage with defect : 100 %

Portland OR 97217-3849

Company phone : 800-745-8000

**Vehicle Information :**

Vehicle 1 : 2023-2023 Freightliner 108SD

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : DTNA's supplier Cummins states, "Printed Circuit Boards (PCB) for certain engines were manufactured with a defective solder fixture. The recall population was determined by identifying the oldest production lot associated with an Engine Control Module (ECM) failure, and including all production from that lot to the date in June 2022 when the improvements in the assembly process were instituted."

Production Dates : MAY 27, 2022 - JUL 15, 2022

VIN Range 1 : Begin :

NR

End : NR

 Not sequential

Vehicle 2 : 2023-2023 Freightliner 114SD

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : DTNA's supplier Cummins states, "Printed Circuit Boards (PCB) for certain engines were manufactured with a defective solder fixture. The recall population was determined by identifying the oldest production lot associated with an Engine Control Module (ECM) failure, and including all production from that lot to the date in June 2022 when the improvements in the assembly process were instituted."

Production Dates : MAY 27, 2022 - JUL 14, 2022

VIN Range 1 : Begin :

NR

End : NR

 Not sequential

Vehicle 3 : 2023-2023 Freightliner Business Class M2

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : DTNA's supplier Cummins states, "Printed Circuit Boards (PCB) for certain engines were manufactured with a defective solder fixture. The recall population was determined by identifying the oldest production lot associated with an Engine Control Module (ECM) failure, and including all production from that lot to the date in June 2022 when the improvements in the assembly process were instituted."

Production Dates : MAY 25, 2022 - JUL 13, 2022

VIN Range 1 : Begin : NR End : NR  Not sequential

Vehicle 4 : 2023-2023 Freightliner Cascadia

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : DTNA's supplier Cummins states, "Printed Circuit Boards (PCB) for certain engines were manufactured with a defective solder fixture. The recall population was determined by identifying the oldest production lot associated with an Engine Control Module (ECM) failure, and including all production from that lot to the date in June 2022 when the improvements in the assembly process were instituted."

Production Dates : MAR 17, 2022 - JUL 11, 2022

VIN Range 1 : Begin : NR End : NR  Not sequential

Vehicle 5 : 2023-2023 Western Star 4700

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : DTNA's supplier Cummins states, "Printed Circuit Boards (PCB) for certain engines were manufactured with a defective solder fixture. The recall population was determined by identifying the oldest production lot associated with an Engine Control Module (ECM) failure, and including all production from that lot to the date in June 2022 when the improvements in the assembly process were instituted."

Production Dates : JUN 14, 2022 - JUL 08, 2022

VIN Range 1 : Begin : NR End : NR  Not sequential

Vehicle 6 : 2023-2023 Western Star 47X

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : DTNA's supplier Cummins states, "Printed Circuit Boards (PCB) for certain engines were manufactured with a defective solder fixture. The recall population was determined by identifying the oldest production lot associated with an Engine Control Module (ECM) failure, and including all production from that lot to the date in June 2022 when the improvements in the assembly process were instituted."

Production Dates : JUN 30, 2022 - JUL 12, 2022

VIN Range 1 : Begin : NR End : NR  Not sequential

Vehicle 7 : 2023-2023 Freightliner (FCCC) XCS Chassis

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : DTNA's supplier Cummins states, "Printed Circuit Boards (PCB) for certain engines were manufactured with a defective solder fixture. The recall population was determined by identifying the oldest production lot associated with an Engine Control Module (ECM) failure, and including all production from that lot to the date in June 2022 when the improvements in the assembly process were instituted."

Production Dates : JUN 07, 2022 - JUL 07, 2022

VIN Range 1 : Begin : NR End : NR  Not sequential

Vehicle 8 : 2023-2023 Freightliner (FCCC) MC Chassis

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : DTNA's supplier Cummins states, "Printed Circuit Boards (PCB) for certain engines were manufactured with a defective solder fixture. The recall population was determined by identifying the oldest production lot associated with an Engine Control Module (ECM) failure, and including all production from that lot to the date in June 2022 when the improvements in the assembly process were instituted."

Production Dates : JUN 07, 2022 - JUN 20, 2022

VIN Range 1 : Begin : NR End : NR  Not sequential

Vehicle 9 : 2023-2023 Freightliner (FCCC) MT45 Chassis

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : DTNA's supplier Cummins states, "Printed Circuit Boards (PCB) for certain engines were manufactured with a defective solder fixture. The recall population was determined by identifying the oldest production lot associated with an Engine Control Module (ECM) failure, and including all production from that lot to the date in June 2022 when the improvements in the assembly process were instituted."

Production Dates : MAY 02, 2022 - JUL 19, 2022

VIN Range 1 : Begin : NR End : NR  Not sequential

Vehicle 10 : 2023-2023 Freightliner (FCCC) S2C 106CAB

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : DTNA's supplier Cummins states, "Printed Circuit Boards (PCB) for certain engines were manufactured with a defective solder fixture. The recall population was determined by identifying the oldest production lot associated with an Engine Control Module (ECM) failure, and including all production from that lot to the date in June 2022 when the improvements in the assembly process were instituted."

Production Dates : JUN 13, 2022 - JUN 22, 2022

VIN Range 1 : Begin : NR End : NR  Not sequential

Vehicle 11 : 2023-2023 Freightliner (FCCC) S2RV 106CAB

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : DTNA's supplier Cummins states, "Printed Circuit Boards (PCB) for certain engines were manufactured with a defective solder fixture. The recall population was determined by identifying the oldest production lot associated with an Engine Control Module (ECM) failure, and including all production from that lot to the date in June 2022 when the improvements in the assembly process were instituted."

Production Dates : JUN 06, 2022 - JUL 11, 2022

VIN Range 1 : Begin : NR End : NR  Not sequential

Vehicle 12 : 2023-2023 Freightliner (FCCC) XCM Chassis

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : DTNA's supplier Cummins states, "Printed Circuit Boards (PCB) for certain engines were manufactured with a defective solder fixture. The recall population was determined by identifying the oldest production lot associated with an Engine Control Module (ECM) failure, and including all production from that lot to the date in June 2022 when the improvements in the assembly process were instituted."

Production Dates : JUN 01, 2022 -JUN 24, 2022

VIN Range 1 : Begin : NR End : NR  Not sequential

Vehicle 13 : 2023-2023 Freightliner (FCCC) XCR Chassis

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : DTNA's supplier Cummins states, "Printed Circuit Boards (PCB) for certain engines were manufactured with a defective solder fixture. The recall population was determined by identifying the oldest production lot associated with an Engine Control Module (ECM) failure, and including all production from that lot to the date in June 2022 when the improvements in the assembly process were instituted."

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

VIN Range 1 : Begin : NR End : NR  Not sequential

Vehicle 14 : 2023-2023 Western Star 49X

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : DTNA's supplier Cummins states, "Printed Circuit Boards (PCB) for certain engines were manufactured with a defective solder fixture. The recall population was determined by identifying the oldest production lot associated with an Engine Control Module (ECM) failure, and including all production from that lot to the date in June 2022 when the improvements in the assembly process were instituted."

Production Dates : JUN 17, 2022 -JUN 30, 2022

VIN Range 1 : Begin : NR End : NR  Not sequential

## Description of Defect :

Description of the Defect : DTNA's supplier Cummins states, "The soldering fixture had a loose screw, which in certain cases may contacting the Lytic cap and applying excess force into the PCB. Over time with scrubbing or movement of PCB, the capacitor may wear through the dielectric layer into the VBatt layer resulting in high current draw, which may cause loss of communication to the ECM.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : DTNA's supplier Cummins states, "Loss of communication to the ECM while driving may cause unexpected engine stall without prior warnings, and the inability of restart, which may increase the risk of a crash."

Description of the Cause : NR

Identification of Any Warning that can Occur : NR

## Involved Components :

Component Name 1 : Printed Circuit Boards (PCB)

Component Description : Engine PCB

Component Part Number : Multiple

## Supplier Identification :

### Component Manufacturer

Name : Cummins, Inc.

Address : 500 Jackson St  
Columbus Indiana 47201

Country : United States

## Chronology :

On July 11, 2022, Cummins notified DTNA Compliance of 10 documented occurrences of ECM communication failure on DTNA vehicles powered by specific Cummins engines. DTNA immediately began an investigation to learn about failure modes and the detectability of such failure modes. In parallel with DTNA's investigation, as DTNA understands, Cummins had already been investigating the issue. On July 22, 2022, Cummins informed DTNA of an impending equipment recall. DTNA on July 25, 2022, immediately issued a recall out of an abundance of caution. DTNA amended the 573 filing on October 5, 2022 to reflect Cummins' provision of a remedy plan.

### Description of Remedy :

Description of Remedy Program : Per Cummins 22E-063 573 filing , "Cummins will replace the suspect ECM"

How Remedy Component Differs from Recalled Component : NR

Identify How/When Recall Condition was Corrected in Production : NR

### 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 : SEP 26, 2022 - SEP 26, 2022

Planned Owner Notification Date : SEP 26, 2022 - SEP 26, 2022

\* NR - Not Reported