

Part 573 Safety Recall Report

18E-102

Manufacturer Name : Eaton Corporation

Submission Date : NOV 21, 2018

NHTSA Recall No. : 18E-102

Manufacturer Recall No. : NR



Manufacturer Information :

Manufacturer Name : Eaton Corporation

Address : 1000 Eaton Blvd
Cleveland OH 44122

Company phone : 800-386-1911

Population :

Number of potentially involved : 76,512

Estimated percentage with defect : NR

Equipment Information :

Brand / Trade 1 : Eaton

Model : ECA Clutch

Part No. : 122002-35

Size : Not applicable

Function : Clutch

Descriptive Information : The affected equipment is a heavy-duty truck clutch installed in certain automated manual transmission vehicles. Eaton determined the equipment population by reviewing field warranty records combined with manufacturing lots and traceability information. Only the units bearing a serial number within the following ranges are affected: AU1704010001 through AU180529999; and SL1704010001 through SL180605999.

Production Dates : APR 01, 2017 - JUN 05, 2018

Brand / Trade 2 : Eaton

Model : ECA Clutch

Part No. : 122002-42A

Size : Not applicable

Function : Clutch

Descriptive Information : The affected equipment is a heavy-duty truck clutch installed in certain automated manual transmission vehicles. Eaton determined the equipment population by reviewing field warranty records combined with manufacturing lots and traceability information. Only the units bearing a serial number within the following ranges are affected: AU1704010001 through AU180529999; and SL1704010001 through SL180605999.

Production Dates : APR 01, 2017 - JUN 05, 2018

Brand / Trade 3 : Eaton

Model : ECA Clutch

Part No. : 122002-42

Size : Not applicable

Function : Clutch

Descriptive Information : The affected equipment is a heavy-duty truck clutch installed in certain automated manual transmission vehicles. Eaton determined the equipment population by reviewing field warranty records combined with manufacturing lots and traceability information. Only the units bearing a serial number within the following ranges are affected: AU1704010001 through AU180529999; and SL1704010001 through SL180605999.

Production Dates : APR 01, 2017 - JUN 05, 2018

Brand / Trade 4 : Eaton

Model : ECA Clutch

Part No. : 122002-35A

Size : Not applicable

Function : Clutch

Descriptive Information : The affected equipment is a heavy-duty truck clutch installed in certain automated manual transmission vehicles. Eaton determined the equipment population by reviewing field warranty records combined with manufacturing lots and traceability information. Only the units bearing a serial number within the following ranges are affected: AU1704010001 through AU180529999; and SL1704010001 through SL180605999.

Production Dates : APR 01, 2017 - JUN 05, 2018

Description of Defect :

Description of the Defect : An internal component within the clutch assembly may be outside of specification and fail, which in special circumstances could cause such clutch component to inhibit clutch departure.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : In the rare event that the clutch component fails in a manner that prevents the clutch from achieving proper departure, and creates a condition that results in the transmission of enough driveline torque to prevent achieving a commanded neutral condition in the vehicle transmission, and the engine idles for a sufficient amount of time to cause driveline torque to increase as a result of loss of departure in the clutch, it is possible to achieve driveline torque sufficient to overcome the parking brakes, which could cause unintended vehicle motion, potentially resulting in a vehicle impact with prior warning.

Description of the Cause : The defect was caused by a failure to meet manufacturing specifications for a component within the clutch.

Identification of Any Warning that can Occur : The majority of OEM-manufactured trucks have an audible warning that will alert the driver if the vehicle transmission does not achieve neutral when the driver commands it to neutral with the shift device while the vehicle is running, which audible warning continues until a neutral condition is achieved. In addition, the majority of vehicle instrument panels have an indicator that normally displays "AN" when auto neutral is being attempted. This indicator will alternate between "AN" and the engaged gear (e.g., R, 1, 2, 3, etc.) as auto neutral attempts to achieve a neutral condition. Additionally, if the vehicle transmission does not achieve neutral when commanded to neutral and the parking brake is engaged, the unintended motion may be preceded by increased vibration, noises, and/or rocking of the cab as the driveline attempts to overcome the resistance of the parking brakes.

Supplier Identification :

Component Manufacturer

Name : Wrena LLC

Address : c/o Angstrom Automotive Group LLC
26980 Trolley Ind. Dr. Taylor 48180

Country : United States

Chronology :

9/26/2018: The Eaton Vehicle Group Safety Committee met to review a report and video, received 9/24/2018 and 9/25/2018, of a truck that had moved without a driver in the vehicle. The committee decided to inspect the truck and collect more data.

9/27/2018: During inspection of the subject truck, a portion of a clutch component was found in the clutch housing enclosure. At this time, there was no data to indicate that the component and the unintended movement were related, and Eaton continued investigating the subject event.

10/8/2018: The Safety Committee reviewed the data obtained since 9/27/2018 from: attempts with the subject truck to produce the event, which were unsuccessful; and inspection of the subject clutch. Software analysis and in-vehicle testing was initiated to investigate the root cause of the unintended movement.

10/24/2018: Software analysis and vehicle testing ended. The Safety Committee reviewed the results of the analysis and testing, as well as three warranty claims involving similar symptoms but no unintended motion (dated 8/1/2018, 8/28/2018, and 10/15/2018). The Safety Committee determined to inquire of certain OEMs regarding any vehicle-level mitigation actions if the vehicle couldn't achieve neutral and there was driveline torque.

10/26/2018: The Safety Committee considered whether there were any vehicle-level mitigation actions which would prevent the unintended vehicle movement. Despite the prior warnings, of an "AN" light and tone within

the vehicle, the Safety Committee determined that there is still a risk of a safety defect within the equipment.

Description of Remedy :

Description of Remedy Program : For items of replacement equipment covered by this recall, Eaton will remedy the defect by providing a software update, but in certain circumstances, Eaton may repair physical components in addition to providing a software update, replace the clutch, or provide a refund of the purchase price. This remedy will be available beginning December 7, 2018.

Owners of recalled parts can contact Eaton at 269-342-3000 or Auto.RTW@Eaton.com for additional information about obtaining a remedy.

How Remedy Component Differs from Recalled Component : A remedied component contains updated clutch software with a version number of 5569997 or later. The software in the recalled component contains an earlier version number.

Identify How/When Recall Condition was Corrected in Production : The issue component was subject to a manufacturing change in June 2018, remedying the issue.

Recall Schedule :

Description of Recall Schedule : NR

Planned Dealer Notification Date : NR - NR

Planned Owner Notification Date : NR - NR

Purchaser Information :

The following manufacturers purchased this defective/noncompliant equipment for possible use or installation in new motor vehicles or new items of motor vehicle equipment:

Name : Caterpillar Industrial Inc.

Address : NR

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Country : NR

Company Phone : NR

Name : Crane Carrier Co.

Address : NR

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Country : NR

Company Phone : NR

Name : Cummins Engine

Address : NR

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Country : NR

Company Phone : NR

Name : Daimler Trucks North America

Address : NR

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Country : NR

Company Phone : NR

Name : HME Inc.

Address : NR

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Country : NR

Company Phone : NR

Name : Volvo Trucks North America

Address : NR

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Country : NR

Company Phone : NR

Name : Mack Trucks, Inc.

Address : NR

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Country : NR

Company Phone : NR

Name : Manitowoc Co. Inc.

Address : NR

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Country : NR

Company Phone : NR

Name : Navistar a/k/a International Truck

Address : NR

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Country : NR

Company Phone : NR

Name : PACCAR Inc.

Address : NR

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Country : NR

Company Phone : NR

Name : Terex Corp.

Address : NR

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Country : NR

Company Phone : NR

Name : Link-Belt Construction Equipment Co.

Address : NR

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Country : NR

Company Phone : NR

* NR - Not Reported