

Part 573 Safety Recall Report

21V-390

Manufacturer Name : Ford Motor Company

Submission Date : MAY 25, 2021

NHTSA Recall No. : 21V-390

Manufacturer Recall No. : 21S26



Manufacturer Information :

Manufacturer Name : Ford Motor Company

Address : 330 Town Center Drive

Suite 500 Dearborn MI 48126-2738

Company phone : 1-866-436-7332

Population :

Number of potentially involved : 5

Estimated percentage with defect : 80 %

Vehicle Information :

Vehicle 1 : 2021-2021 Ford F-450

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style :

Power Train : NR

Descriptive Information : Ford's team reviewed supplier process and maintenance records to determine the population of affected parts. The Ford process is capable of tracing front axle production to the vehicle in which the front axle is installed.

Affected vehicles are equipped with dual rear wheels (DRW) and wide body front axles.

Ford vehicles are not produced in VIN order and we typically cannot provide VIN specific information. However, in this instance Ford is able to provide the specific VIN list – see attachment VINS.

One (1) F-450 vehicle is affected.

Production Dates : FEB 23, 2021 - FEB 23, 2021

VIN Range 1 : Begin : 1FDTF4GN6MED10288 **End :** 1FDTF4GN6MED10288 Not sequential

Vehicle 2 : 2021-2021 Ford F-600

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style :

Power Train : NR

Descriptive Information : Ford's team reviewed supplier process and maintenance records to determine the population of affected parts. The Ford process is capable of tracing front axle production to the vehicle in which the front axle is installed.

Affected vehicles are equipped with dual rear wheels (DRW) and wide body front axles.

Ford vehicles are not produced in VIN order and we typically cannot provide VIN specific information. However, in this instance Ford is able to provide the specific VIN list – see attachment VINs.

One (1) F-600 vehicle is affected.

Production Dates : FEB 22, 2021 - FEB 22, 2021

VIN Range 1 : Begin : 1FDF66LT7MDA06227 End : 1FDF66LT7MDA06227 Not sequential

Vehicle 3 : 2021-2021 Ford F-550

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style :

Power Train : NR

Descriptive Information : Ford's team reviewed supplier process and maintenance records to determine the population of affected parts. The Ford process is capable of tracing front axle production to the vehicle in which the front axle is installed.

Affected vehicles are equipped with dual rear wheels (DRW) and wide body front axles.

Ford vehicles are not produced in VIN order and we typically cannot provide VIN specific information. However, in this instance Ford is able to provide the specific VIN list – see attachment VINs.

Three (3) F-550 vehicles are affected.

Production Dates : FEB 19, 2021 - FEB 23, 2021

VIN Range 1 : Begin : 1FDUF5GT1MED11096 End : 1FDUF5GT1MED11096 Not sequential

VIN Range 2 : Begin : 1FDUF5GT4MEC97498 End : 1FDUF5GT4MEC97498 Not sequential

VIN Range 3 : Begin : 1FDUF5GT8MEC98301 End : 1FDUF5GT8MEC98301 Not sequential

Description of Defect :

Description of the Defect : These vehicles are equipped with front wheel hub extenders that may not have been properly attached. Improper attachment of the front wheel hub extender may result in separation of the wheel and wheel extender from the vehicle.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : Improper torque of the front wheel hub extender nuts may result in front wheel and wheel extender detachment from the vehicle, increasing the risk of a crash.

Description of the Cause : Due to a supplier process error, the automated torque station for tightening and verifying the torque of the nuts joining the front wheel hub extender to the rotor may have been bypassed at the supplier axle assembly facility. The nuts connecting the front wheel hub extender to the rotor may not have been tightened to specification.

Identification of Any Warning that can Occur : Customers may notice vibration and noise while driving as the nuts connecting the front wheel extender to the front rotor loosen.

Involved Components :

Component Name 1 : Front Axle Assembly

Component Description : F-450/550 DRW 4X2 Chassis Cab Front Axle Assembly

Component Part Number : LC34-3001-BD

Component Name 2 : Front Axle Assembly

Component Description : F-600 DRW 4X4 Front Axle Assembly

Component Part Number : LC34-3002-ZC

Supplier Identification :**Component Manufacturer**

Name : Dana Incorporated

Address : 27870 Cabot Drive
Novi Michigan 48377

Country : United States

Chronology :

On May 13, 2021, Ford's Critical Concern Review Group was informed of two reports alleging left-front wheel detachment while driving. One claim was identified in warranty and one claim was identified through Ford's field reporting system (Global Common Quality Indicator System, GCQIS).

Investigation at the supplier axle assembly facility determined that the supplier assembly process allowed for certain axle assemblies to bypass the automated torque station where installation of the front wheel hub extender to the rotor is completed and wheel hub extender nut torque is recorded. Subsequent supplier assembly stations did not reject the parts that were missing valid recorded torque history.

A review of supplier processes and production records identified seven front axle assemblies believed to have been shipped to Ford with risk of inadequate torque on the fasteners attaching the wheel hub extender to the front rotor. Two of the suspect assemblies were associated with the wheel detachment reports listed above.

On May 20, 2021, Ford's Field Review Committee reviewed the concern and approved a field action.

Ford is not aware of any reports of accident or injury related to this condition.

Description of Remedy :

Description of Remedy Program : Ford is in the process of contacting owners and arranging for inspection and repair of their vehicles. Dealers will verify that the front wheel hub extender nuts on both sides of the vehicle are tightened to the correct specification. There will be no charge for this service.

Ford is excluding reimbursement for costs because the original warranty program would provide for a free repair for this concern.

Ford will forward a copy of the notification letters to dealers to the agency when available.

How Remedy Component Differs from Recalled Component : Front wheel hub extender nuts will be properly torqued on front axle assemblies (LC34-3001-BD and LC34-3002-ZC).

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

Recall Schedule :

Description of Recall Schedule : Notification to dealers is expected to occur on May 26, 2021. If necessary, mailing of owner notification letters is expected to occur the week of June 14, 2021.

Planned Dealer Notification Date : MAY 26, 2021 - MAY 26, 2021

Planned Owner Notification Date : JUN 14, 2021 - JUN 18, 2021

* NR - Not Reported