



U.S. Department  
of Transportation

National Highway  
Traffic Safety  
Administration

## Part 573 Safety Recall Report

## 25V512

**Manufacturer Name:** Ford Motor Company

**Submission Date:** Aug 08, 2025

**NHTSA Recall No.:** 25V512

**Manufacturer Recall No.:** 25S82

### Manufacturer Information

### Population

**Manufacturer Name:** Ford Motor Company

**Address:** 330 Town Center Drive  
Suite 500  
Dearborn MI, 48126-2738

**Total number of potentially involved:** 103,174

**Estimated percentage with defect:** 1%

### Vehicle Information

**Vehicle 1:** 2025-2025 FORD F-150

**Product Category:** Light Vehicles

**Product Type:** Light Truck

**Fuel / Propulsion:**

**Production Dates:** Jan 02, 2023 - May 21, 2025

**Number of potentially involved:** 20,108

**Descriptive Information:**

Affected vehicles are equipped with the Trailer Tow Max Duty package and a 9.75-inch heavy duty (HD) axle with a  $\frac{3}{4}$  float axle design and were built between January 02, 2023, and May 21, 2025.

These vehicles are not produced in VIN order. Information as to the applicability of this action to specific vehicles can best be obtained by either calling Ford's toll-free line (1-866-436-7332) or by contacting a local Ford or Lincoln dealer who can obtain specific information regarding the vehicles from the Ford On-line Automotive Service Information System (OASIS) database.

**Vehicle 2:** 2024-2024 FORD F-150

**Product Category:** Light Vehicles

**Product Type:** Light Truck

**Fuel / Propulsion:**

**Production Dates:** Jan 02, 2023 - May 21, 2025

**Number of potentially involved:** 38,144

**Descriptive Information:**

# Part 573 Safety Recall Report

# 25V512

Affected vehicles are equipped with the Trailer Tow Max Duty package and a 9.75-inch heavy duty (HD) axle with a  $\frac{3}{4}$  float axle design and were built between January 02, 2023, and May 21, 2025.

These vehicles are not produced in VIN order. Information as to the applicability of this action to specific vehicles can best be obtained by either calling Ford's toll-free line (1-866-436-7332) or by contacting a local Ford or Lincoln dealer who can obtain specific information regarding the vehicles from the Ford On-line Automotive Service Information System (OASIS) database.

**Vehicle 3:** 2023-2023 FORD F-150

**Product Category:** Light Vehicles

**Product Type:** Light Truck

**Fuel / Propulsion:**

**Production Dates:** Jan 02, 2023 - May 21, 2025

**Number of potentially involved:** 44,922

**Descriptive Information:**

Affected vehicles are equipped with the Trailer Tow Max Duty package and a 9.75-inch heavy duty (HD) axle with a  $\frac{3}{4}$  float axle design and were built between January 02, 2023, and May 21, 2025.

These vehicles are not produced in VIN order. Information as to the applicability of this action to specific vehicles can best be obtained by either calling Ford's toll-free line (1-866-436-7332) or by contacting a local Ford or Lincoln dealer who can obtain specific information regarding the vehicles from the Ford On-line Automotive Service Information System (OASIS) database.

## Defect / Noncompliance Description

**Description of the defect or noncompliance:**

The rear axle hub bolt may break due to fatigue and will no longer prevent micro-movement between the hub splines and the axle shaft splines. Over time, in a corrosive environment, corrosion and the micro-movement may result in wearing of the hub splines which can lead to loss of torque transfer to the wheel end.

**FMVSS1:**

**FMVSS2:**

**Description of the safety risk, including crash, fire, death, injury:**

Stripped rear axle hub splines can result in vehicle roll away when the vehicle is in park without the parking brake applied, or cause a loss of motive power in 4X2 operation. Both of these conditions can increase the risk of a crash.

**Description of the cause:**

# Part 573 Safety Recall Report

**25V512**

Micro-movement between the hub splines and the axle shaft splines leads to fretting, which creates wear from displaced particles of the splines. The fretting particles may corrode, expand, and accelerate the fretting wear, leading to eventual wear-out (stripping) of the hub splines.

**Identification of any warning that can occur:**

As the rear axle hub bolt becomes loose, customers may report a clicking noise. If the bolt breaks, customers may report a rattle noise (the bolt head will be contained within the wheel center cap).

## Component Manufacturer

**Tier of Supplier:****Supplier Type:** OEM**Name:** Ford Motor Company**Address:** 1 American Rd  
Dearborn MI, 48126**Country:** United States

## Involved Components

**Component Name 1:** Rear Axle Shaft Assembly**Component Description:** Rear Axle Shaft Assembly (Left-hand side)**Component Part Number:** ML3W-4725-C**Component Name 2:** Rear Axle Shaft Assembly**Component Description:** Rear Axle Shaft Assembly (Right-hand side)**Component Part Number:** ML3W-4234-C

## Chronology

On **June 5, 2025**, an issue pertaining to an increase in reports of broken rear axle hub bolts and stripped wheel end hub splines on certain 2023 Model Year F-150 vehicles equipped with the 9.75-inch HD 3/4 float axle was brought to Ford's Critical Concern Review Group (CCRG) for review. As part of its investigation, the CCRG reviewed the previously recalled population for 23S65/23V896. The prior recall, approved by Ford's Field Review Committee (FRC) on December 15, 2023, addressed a rear axle stripped hub spline concern on certain 2021–2023 Model Year (MY) Ford F-150 vehicles equipped with the 9.75-inch Heavy Duty (HD) 3/4 float axle. The CCRG team also reviewed a Vehicle Owner Questionnaire (VOQ) that The Automotive Safety Office (ASO) Trends and Early Warning Support Team (TEWS) had initially discussed on May 21, 2025 during a weekly review of the incoming National Highway Traffic Safety Administration (NHTSA) VOQs. The VOQ described a 2023 MY Ford F-150 with

# Part 573 Safety Recall Report

# 25V512

an alleged rear axle stripped spline condition and a roll in park incident. The vehicle in that VOQ was outside of the previously recalled population for 23S65/23V896.

Through June and into July 2025, Ford's Critical Concern Review Group (CCRG) and Global Driveline Engineering team investigated an increase in reports of broken rear axle hub bolts and stripped wheel end hub splines on certain 2023 Model Year F-150 vehicles equipped with the 9.75-inch HD 3/4 float axle produced after the cutoff date for the 23S65 population. This investigation included in-depth reviews of potentially related warranty claims to identify claims where a stripped spline condition was indicated. Additionally, a broad VOQ query was reviewed identifying 12 vehicles produced after the 23S65 cutoff date reporting rear axle bolt breakage. None of those VOQs included allegations of roll in park or loss of motive power. CCRG noted that a new rear axle shaft assembly design was launched in May 2025. This revised axle shaft assembly design included new spline geometry with a larger contact area and an M24 stud/nut for the hub.

As of July 14, 2025, Ford is aware of 194 warranty claims, received between September 27, 2023, and July 8, 2025, describing stripped splines occurring on vehicles produced after the conclusion of 23S65 through May 2025 when the new axle shaft assembly design was introduced.

On **August 1, 2025**, Ford's Field Review Committee reviewed the concern and approved a field action. Ford is not aware of any vehicle accidents or injuries related to this condition.

**Related NHTSA Recall Number:** 23V896

## Description of Remedy

**Remedy Type:** Replace

**Consumer Advisories:** ☐ Do Not Drive ☐ Park Outside

**Description of remedy program:**

Owners will be notified by mail and instructed to take their vehicle to a Ford or Lincoln dealer to have the left and right rear axle shaft assemblies replaced with assemblies containing revised spline geometry and fasteners. There will be no charge for this service.

**How remedy component differs from recalled component:**

The left and right rear axle assemblies that will replace the recalled assemblies (ML3W-4725-C and ML3W-4234-C) are designed with revised spline geometry and fasteners.

**Identify how/when recall condition was corrected in production:**

Not required per 49 Part 573.

## Reimbursement Plan

Manufacturer used general reimbursement plan on file.

# Part 573 Safety Recall Report

**25V512**

## Recall Schedule

**Description of recall schedule:**

Notification to dealers is expected to occur on August 11, 2025. Mailing of remedy owner notification letters is expected to begin August 18, 2025, and is expected to be completed by May 22, 2026. The date VINs are planned to be searchable is August 11, 2025.

**Planned Dealer Notification Date:** Aug 11, 2025 - Aug 15, 2025☐ No Dealers**Planned Interim Owner Notification Date:**☐ No Owners**Planned Remedy Owner Notification Date:** Aug 18, 2025 - May 22, 2026 ☒ Phased Recall**Date when VIN will be searchable:** Aug 11, 2025