

Part 573 Safety Recall Report

25V-164

Manufacturer Name : Ford Motor Company

Submission Date : MAR 14, 2025

NHTSA Recall No. : 25V-164

Manufacturer Recall No. : 25S19



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 : 269

Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2024-2025 Ford F-150

Vehicle Type : LIGHT VEHICLES

Body Style : ALL

Power Train : GAS

Descriptive Information : Ford's team reviewed plant records to determine the population of affected parts. The Ford process is capable of tracing transmission main control valve body production to the vehicle in which the transmission main control valve body is installed. Affected vehicles are equipped with 10R80 transmissions.

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.

175 Ford F-150 vehicles are affected.

Production Dates : NOV 22, 2024 - JAN 31, 2025

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 2 : 2024-2024 Ford Ranger

Vehicle Type : LIGHT VEHICLES

Body Style : ALL

Power Train : GAS

Descriptive Information : Ford's team reviewed plant records to determine the population of affected parts. The Ford process is capable of tracing transmission main control valve body production to the vehicle in which the transmission main control valve body is installed. Affected vehicles are equipped with 10R80 transmissions.

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2 Ford Ranger vehicles are affected.

Production Dates : NOV 15, 2024 - DEC 15, 2024

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 3 : 2025-2025 Ford Mustang

Vehicle Type : LIGHT VEHICLES

Body Style : ALL

Power Train : GAS

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20 Ford Mustang vehicles are affected.

Production Dates : DEC 19, 2024 - FEB 03, 2025

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 4 : 2025-2025 Ford Explorer

Vehicle Type : LIGHT VEHICLES

Body Style : ALL

Power Train : GAS

Descriptive Information : Ford's team reviewed plant records to determine the population of affected parts. The Ford process is capable of tracing transmission main control valve body production to the vehicle in which the transmission main control valve body is installed. Affected vehicles are equipped with 10R80 transmissions.

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.

55 Ford Explorer vehicles are affected.

Production Dates : NOV 25, 2024 - JAN 30, 2025

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 5 : 2024-2025 Ford Bronco

Vehicle Type : LIGHT VEHICLES

Body Style : ALL

Power Train : GAS

Descriptive Information : Ford's team reviewed plant records to determine the population of affected parts. The Ford process is capable of tracing transmission main control valve body production to the vehicle in which the transmission main control valve body is installed. Affected vehicles are equipped with 10R80 transmissions.

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.

14 Ford Bronco vehicles are affected.

Production Dates : NOV 27, 2024 - FEB 04, 2025

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 6 : 2025-2025 Lincoln Aviator

Vehicle Type : LIGHT VEHICLES

Body Style : ALL

Power Train : GAS

Descriptive Information : Ford's team reviewed plant records to determine the population of affected parts. The Ford process is capable of tracing transmission main control valve body production to the vehicle in which the transmission main control valve body is installed. Affected vehicles are equipped with 10R80 transmissions.

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.

3 Lincoln Aviator vehicles are affected.

Production Dates : DEC 04, 2024 - DEC 20, 2024

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Description of Defect :

Description of the Defect : Affected vehicles contain transmission main control valve bodies with out of specification machining. This can prevent the vehicle from entering reverse gear when reverse is commanded by the gear shift module (GSM). Customers may experience no reverse motion when the vehicle gear shift selector is placed in reverse. This condition may also result in the vehicle moving forward with the gear selector in either the reverse or neutral position.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : Unexpected vehicle motion can increase the risk of a crash.

Description of the Cause : Ford has identified two bores within the Outer Valve Body (OVB) of the transmission main control whose diameter and circularity dimensions did not meet the engineering print specification. The machining tool body was not holding steering during the production process.

Identification of Any Warning that can Occur : The Malfunction Indicator Light (MIL) and Wrench light will illuminate when this malfunction occurs.

Involved Components :

Component Name 1 : Transmission Valve Body

Component Description : Transmission Valve Body

Component Part Number : KTJL3P-7A100-*

Component Name 2 : Transmission Valve Body

Component Description : Transmission Valve Body

Component Part Number : KTL1MP-7A100-*

Component Name 3 : Transmission Valve Body

Component Description : Transmission Valve Body

Component Part Number : KTML3P-7A100-*

Supplier Identification :

Component Manufacturer

Name : Ford Motor Company

Address : 1 American Road
Dearborn Michigan 48126

Country : United States

Chronology :

On February 6, 2025, an issue pertaining to certain 10R transmissions was brought to Ford's Critical Concern Review Group for review after Ford learned of a 2025 MY Mustang that experienced a transmission failure at Flat Rock Assembly Plant (FRAP) on January 31, 2025. The transmission failure prevented the vehicle from engaging reverse gear. On that same day, Ford issued a Stop Ship for 2025MY F150 ICE/HEV, Bronco, Ranger, Mustang, Explorer, and Aviator models containing these 10R transmissions. Ford learned that other vehicles, with 10R transmissions machined at the same Outer Valve Body (OVB) machining center at Livonia Transmission Plant (LTP), exhibited similar symptoms. The suspect transmission was returned to LTP for testing and analysis. This analysis determined that the E-Clutch shift solenoid in the OVB in the main control assembly (MCA) was stuck ON due to out-of-specification machining. This condition can prevent engagement of the reverse gear.

Ford's investigation utilized plant process run data from the suspect machining center to create a Machine Integrated Learning and Optimization (MILO) model that was successfully able to detect individual OVB units that were likely to experience this condition. Traceability of the individual transmission serial numbers

assisted in stock sorting, as well as in identifying those associated with specific vehicle identification numbers (VIN) and installed into vehicles. Ford engineering and CCRG team members conducted evaluations of vehicles equipped with suspect parts from the identified production population and confirmed the symptoms as described by field reports.

As of February 21, 2025, Ford is aware of five (5) warranty reports, received February 6, February 8, February 10, February 12, and February 18, 2025.

On March 7, 2025, 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 : Owners will be notified by mail and instructed to take their vehicle to a Ford or Lincoln dealer to have the transmission main control valve body replaced. There will be no charge for this service.

Ford provided the general reimbursement plan for the cost of remedies paid for by vehicle owners prior to notification of a safety recall in May 2023. Owners who have paid to have these repairs completed at their own expense may be eligible for reimbursement, in accordance with the recall reimbursement plan on file with NHTSA.

How Remedy Component Differs from Recalled Component : Transmission main control valve bodies used in service of this action (JL3Z-7A100-*, L1MZ-7A100-*, ML3Z-7A100-*) will contain interior bore dimensions that meet the engineering print specification.

Identify How/When Recall Condition was Corrected in Production : Not required per 49 Part 573.

Recall Schedule :

Description of Recall Schedule : Notification to dealers is expected to occur on March 14, 2025. Mailing of owner notification letters is expected to begin May 5, 2025 and is expected to be completed by May 9, 2025.

Planned Dealer Notification Date : MAR 14, 2025 - MAR 14, 2025

Planned Owner Notification Date : MAY 05, 2025 - MAY 09, 2025

* NR - Not Reported