

Part 573 Safety Recall Report

22V-188

Manufacturer Name : Ford Motor Company**Submission Date :** APR 05, 2022**NHTSA Recall No. :** 22V-188**Manufacturer Recall No. :** 22S15**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 : 47,084

Estimated percentage with defect : 1 %

Vehicle Information :

Vehicle 1 : 2021-2021 Ford F-150

Vehicle Type : LIGHT VEHICLES

Body Style : PICKUP TRUCK

Power Train : GAS

Descriptive Information : Affected vehicles are equipped with 3.5L GTDI, 2.7L and 5.0L engines, 10R80 transmissions and not equipped with Auto Start-Stop technology.

3.5L GTDI, 2.7L and 5.0L engines and non-start/stop equipped vehicles built between July 28, 2021 and December 20, 2021 have a transmission diagnostic logic inadvertently activated.

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.

Production Dates : JUL 28, 2021 - DEC 20, 2021

VIN Range 1 : Begin :

NR

End : NR

 Not sequential**Description of Defect :**

Description of the Defect : The Transmission Fluid Pressure Low Diagnostic Trouble Code (DTC) may falsely activate and cause the transmission to shift into a neutral state. This can occur at any speed. If a false activation occurs, the vehicle will coast to a stop as if it is in Neutral, and the electronic shifter will attempt to engage Park below speeds of 2 mph/3 kph. Once the vehicle comes to a complete stop, the electronic shifter will automatically shift into Park.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : A loss of motive power while driving can increase the risk of a crash.

Description of the Cause : A transmission calibration diagnostic logic was inadvertently activated for certain vehicles without Auto Start-Stop technology.

Identification of Any Warning that can Occur : A wrench light will illuminate when this occurs. Transmission function can be restored upon a key-off/key-on cycle.

Involved Components :

Component Name 1 : PCM/ECM Calibration Software

Component Description : 2021 F-150

Component Part Number : ML3A-14C204-BGA

Component Name 2 : PCM/ECM Calibration Software

Component Description : 2021 F-150

Component Part Number : ML3A-14C204-BLA

Component Name 3 : PCM/ECM Calibration Software

Component Description : 2021 F-150

Component Part Number : ML3A-14C204-BMA

Component Name 4 : PCM/ECM Calibration Software

Component Description : 2021 F-150

Component Part Number : ML3A-14C204-RAH

Component Name 5 : PCM/ECM Calibration Software

Component Description : 2021 F-150

Component Part Number : ML3A-14C204-BFB

Component Name 6 : PCM/ECM Calibration Software

Component Description : 2021 F-150

Component Part Number : ML3A-14C204-BJB

Component Name 7 : PCM/ECM Calibration Software

Component Description : 2021 F-150

Component Part Number : ML3A-14C204-BHA

Component Name 8 : PCM/ECM Calibration Software

Component Description : 2021 F-150

Component Part Number : ML3A-14C204-BKA

Supplier Identification :

Component Manufacturer

Name : Ford Motor Company

Address : One American Road
Dearborn Michigan 48126

Country : United States

Chronology :

February – March 2022 On February 4th, Ford's Driveline Engineering team brought an issue to Ford's Critical Concern Review Group (CCRG) regarding loss-of-mobility reports on certain 2021MY F150 vehicles. Specifically, Ford identified an increase in Transmission Fluid Pressure Low Diagnostic Trouble Code (DTC) P0868 codes being set on specific 2021MY F150 vehicles equipped with 3.5L GTDI, 2.7L and 5.0L engines and the 10R80 transmission. When this code is set, the vehicle transmission will enter a neutral state.

Engineering investigation found that one of the powertrain diagnostic logic software branches was turned on in error when these vehicles were produced. Under certain conditions, this diagnostic logic could inadvertently activate the Pump-Gear-Failure-Detection logic even though the hardware is functioning properly. When this occurs, the transmission on-board-diagnostics will set the DTC P0868, turn on a Wrench Light telltale, and the vehicle's transmission will shift into a neutral state. As the vehicle slows to a speed below 2 mph/3kph, the electronic shifter will attempt to engage the Park function and will automatically shift into Park when the vehicle comes to a complete stop. Transmission function can be immediately restored upon a key-off/key-on cycle.

CCRG analyzed the field data and trends. Between October 22, 2021 and February 9, 2022 there have been 28 warranty claims and one Customer Contact Center report to Ford potentially related to this concern. CCRG also reviewed the one (1) Vehicle Owner questionnaire (“VOQ”) report received by NHTSA concerning this issue.

On March 18, 2022, 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 Powertrain Control Module (PCM) software updated per standard workshop manual procedures. 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 2021. The ending date for reimbursement eligibility is April 29, 2022.

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

How Remedy Component Differs from Recalled Component : Updated PCM software deactivates the unintended transmission diagnostic logic which is not required for these vehicles.

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

Recall Schedule :

Description of Recall Schedule : Notification to dealers is expected to occur on March 29, 2022. Mailing of owner notification letters is expected to begin May 2, 2022 and is expected to be completed by May 6, 2022.

Planned Dealer Notification Date : MAR 29, 2022 - MAR 29, 2022

Planned Owner Notification Date : MAY 02, 2022 - MAY 06, 2022

* NR - Not Reported