

Part 573 Safety Recall Report

17V-669

Manufacturer Name : Ford Motor Company**Submission Date :** OCT 23, 2017**NHTSA Recall No. :** 17V-669**Manufacturer Recall No. :** 17S35**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 : 12,429

Estimated percentage with defect : 10 %

Vehicle Information :

Vehicle 1 : 2018-2018 Ford F150

Vehicle Type : LIGHT VEHICLES

Body Style : ALL

Power Train : GAS

Descriptive Information : Affected vehicles are equipped with 3.3L engines and 6-speed transmissions with a column mounted shift lever.

Ford reviewed manufacturing records to determine the population of affected parts. The Ford process is capable of tracing transmission production to the vehicle in which the transmission is installed.

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 : JAN 12, 2017 - OCT 09, 2017

VIN Range 1 : Begin :

NR

End : NR

 Not sequential

Description of Defect :

Description of the Defect : On certain 2018 F-150 vehicles with 3.3L engines and 6-speed transmissions with a column mounted shift lever, rapid movement of the transmission shifter from Park to Drive (~30 milliseconds) may cause loss of PRNDL gear indication in the instrument cluster and momentary (<1 second) engagement of Reverse operation before the vehicle achieves forward Drive function. This could result in unintended vehicle movement. An operator could alternatively experience momentary Neutral operation rather than Reverse.

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

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : Unintended vehicle movement may increase the risk of accident or injury.

Description of the Cause : The Powertrain Control Module (PCM) calibration may not properly process intended gear selection when the column mounted shift lever is rapidly moved from Park to Drive. This vulnerability exists with a column shifter cable that is installed at one end of its full adjustment. On vehicles with this condition, rapid column shift movement (~30 milliseconds) from Park to Drive can overshoot the shift cable position into the "Drive/Manual" gear selection transition-zone. This can cause the PCM calibration to command a momentary, inaccurate gear selection into either Neutral or Reverse based on the last PRNDL position recognized by the PCM.

Identification of Any Warning that can Occur : None.

Supplier Identification :**Component Manufacturer**

Name : NR

Address : NR

NR

Country : NR

Chronology :

September 28, 2017: An assembly plant operator reported momentary vehicle movement in Reverse following rapid shift from Park to Drive on a vehicle equipped with a 3.3L engine and 6-speed transmission with a column mounted shifter. This was brought to Ford's Critical Concern Review Group (CCRG) for review.

September – October 2017: Investigation by Ford Engineering duplicated this condition on a column mounted

transmission shifter cable installed at one end of its full adjustment. Further investigation found that rapid column shift movement (~30 milliseconds) from Park to Drive can overshoot the shifter cable position into the "Drive/Manual" gear selection transition-zone, causing the PCM calibration to command a momentary, inaccurate gear selection into either Neutral or Reverse based on the last PRNDL position recognized by the PCM.

On October 16, 2017 Ford's Field Review Committee reviewed the concern and approved a field action.

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 reprogrammed with the latest level calibration software. There will be no charge for this service. Customers and dealers will be instructed to carefully shift into the desired gear and confirm intended gear selection in the PRNDL instrument cluster display prior to getting their vehicle repaired.

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 : The latest level calibration software corrects unintended Powertrain Control Module operation.

Identify How/When Recall Condition was Corrected in Production : Latest level Powertrain Control Module software was incorporated in production on September 27, 2017.

Recall Schedule :

Description of Recall Schedule : Notification to dealers is expected to occur on October 24, 2017. Mailing of owner notification letters is expected to begin November 20, 2017 and is expected to be completed by November 24, 2017.

Planned Dealer Notification Date : OCT 24, 2017 - OCT 24, 2017

Planned Owner Notification Date : NOV 20, 2017 - NOV 24, 2017

* NR - Not Reported