

# Part 573 Safety Recall Report

## 22V-382

**Manufacturer Name :** Ford Motor Company

**Submission Date :** MAY 27, 2022

**NHTSA Recall No. :** 22V-382

**Manufacturer Recall No. :** 22S37



### 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 :** 25,032

**Estimated percentage with defect :** 100 %

### Vehicle Information :

**Vehicle 1 :** 2019-2020 Ford Mustang

**Vehicle Type :** LIGHT VEHICLES

**Body Style :** ALL

**Power Train :** GAS

**Descriptive Information :** The recalled part calibration was introduced into production on the 2019MY Mustang and was taken out of production on 2021MY Mustang.

Affected vehicles are equipped with 5.0L engines and manual 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.

2019/2020MY Mustang affected vehicles: 25032

**Production Dates :** JAN 18, 2018 - DEC 16, 2020

**VIN Range 1 : Begin :**

NR

**End :** NR

Not sequential

### Description of Defect :

**Description of the Defect :** The Powertrain Control Module (PCM) may broadcast an unintended faulted signal which when received by modules controlling the reverse camera, reverse light, and driver assist features, may disable these functions.

**FMVSS 1 :** NR

**FMVSS 2 :** NR

**Description of the Safety Risk :** A rear view camera or reverse lamp that is disabled reduces the driver's view of what is behind the vehicle, increasing the risk of a crash.

A disabled driver assist feature (traction control, forward collision warning, blind spot warning, cross traffic indicator) may increase the risk of a crash.

**Description of the Cause :** In some unique driving scenarios or vehicle conditions , including clutch slip causing incorrect ratio, extended reverse driving due to miscalibration of odd/even shift gates, and customer modifications, a mismatch between the gear position sensor signal and the estimated gear calculation might be detected by the PCM resulting in a degraded signal state. The PCM interprets the degraded signal to mean faulted. A faulted signal is then broadcast from the PCM. If the modules controlling the reverse camera, reverse lamps, and driver assist features receive a faulted signal from the PCM, they may disable the function.

**Identification of Any Warning that can Occur :** A warning light may illuminate along with a message indicating which functions are not available.

## Involved Components :

**Component Name 1 :** PCM Calibration Software

**Component Description :** 2019/2020 Mustang

**Component Part Number :** KCGZMFN211

**Component Name 2 :** PCM Calibration Software

**Component Description :** 2019/2020 Mustang

**Component Part Number :** KCGZMFN411

**Component Name 3 :** PCM Calibration Software

**Component Description :** 2019/2020 Mustang

**Component Part Number :** KCGZMFN111

**Component Name 4 :** PCM Calibration Software

**Component Description :** 2019/2020 Mustang

**Component Part Number :** KCGZMFN311

Component Name 5 : PCM Calibration Software

Component Description : 2019/2020 Mustang

Component Part Number : KCGZMFN206

Component Name 6 : PCM Calibration Software

Component Description : 2019/2020 Mustang

Component Part Number : KCGZMFN406

Component Name 7 : PCM Calibration Software

Component Description : 2019/2020 Mustang

Component Part Number : KCGZMFN106

Component Name 8 : PCM Calibration Software

Component Description : 2019/2020 Mustang

Component Part Number : KCGZMFN306

Component Name 9 : PCM Calibration Software

Component Description : 2019/2020 Mustang

Component Part Number : KCGZMFN306

## Supplier Identification :

### Component Manufacturer

Name : NR

Address : NR

NR

Country : NR

## Chronology :

The 2019 MY Mustang 5.0L Manual Transmission Model first introduced a new Rev Matching feature that

included a new Manual Gear Position Sensor and associated software / calibration. In July 2020, Product Development engineers identified warranty claims associated with the Manual Gear Position Sensor causing the rear view camera and reverse lamps to stop functioning. The Product Development team reviewed the concern with the Critical Concern review Group (CCRG) on July 21, 2020. CCRG agreed to close investigation based upon low occurrence and to monitor field data for any increase in occurrence.

On April 5, 2022, CCRG reopened the investigation based upon updated warranty data. As of March 25, 2022, the Product Development team has identified 102 warranty claims alleging non-functioning rear view camera display and/or non-functioning reverse lamps. Additionally, Product Development identified 94 warranty claims of potentially related non-functioning of various driver assist features (traction control, forward collision warning, blind spot warning, cross traffic indicator). One VOQ (11267708) identified potentially related to concern.

Automotive Safety Office conducted a warranty rate projection based upon the current warranty claims. The projected rate at 120 months in service/150K miles is 2.92% or 1,130 expected repairs.

On May 20, 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 Power 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 estimated to be June 24, 2022.

**How Remedy Component Differs from Recalled Component :** Updated PCM software eliminates intermittent Manual Gear Shift Position sensor diagnostic false positive events.

**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 May 30, 2022. Mailing of owner notification letters is expected to begin June 13, 2022 and is expected to be completed by June 17, 2022.

**Planned Dealer Notification Date :** MAY 30, 2022 - MAY 30, 2022

Planned Owner Notification Date : JUN 13, 2022 - JUN 17, 2022

\* NR - Not Reported