Manufacturer Name: Ford Motor Company
Submission Date: MAY 13, 2022
NHTSA Recall No.: 22V-333
Manufacturer Recall No.: 22S29

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: 464
Estimated percentage with defect: 100%

Vehicle Information:
Vehicle 1: 2021-2021 FORD MUSTANG MACH-E
Vehicle Type: LIGHT VEHICLES
Body Style: ALL
Power Train: NR

Descriptive Information: Ford reviewed vehicle service records to determine the population of the affected vehicles. The Ford process is capable of tracing the powertrain control module software to the vehicle in which the powertrain control module was installed. Affected vehicles are equipped with all wheel drive and the suspect powertrain control module software received as a service update or as an over-the-air update.

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: OCT 03, 2020 - MAY 26, 2021
VIN Range 1: Begin: NR End: NR Not sequential

Description of Defect:
Description of the Defect: The functional safety software may ignore a possible unintended acceleration, unintended deceleration, or unintended vehicle movement on the secondary axle and/or incorrectly detect a lateral hazard on the primary axle.

FMVSS 1: NR
FMVSS 2: NR

Description of the Safety Risk: Unintended acceleration, unintended deceleration, unintended vehicle movement, or a reduction in motive power increases the risk of a crash.

Description of the Cause: Software was incorrectly updated to a later model year/program file causing
The functional safety software to always report a torque value of zero on the secondary axle. This condition may be accompanied by a malfunction indicator lamp or wrench light.

<table>
<thead>
<tr>
<th>Identification of Any Warning that can Occur:</th>
</tr>
</thead>
<tbody>
<tr>
<td>The information contained in this report was submitted pursuant to 49 CFR §573</td>
</tr>
</tbody>
</table>

### Involved Components:

<table>
<thead>
<tr>
<th>Component Name 1</th>
<th>Powertrain Control Module Software</th>
</tr>
</thead>
<tbody>
<tr>
<td>Component Description</td>
<td>R44 SR3</td>
</tr>
<tr>
<td>Component Part Number</td>
<td>MJ98-12A650-AXH</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component Name 2</th>
<th>Powertrain Control Module Software</th>
</tr>
</thead>
<tbody>
<tr>
<td>Component Description</td>
<td>R44 SR3</td>
</tr>
<tr>
<td>Component Part Number</td>
<td>MJ98-12A650-BBH</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Component Name 3</th>
<th>Powertrain Control Module Software</th>
</tr>
</thead>
<tbody>
<tr>
<td>Component Description</td>
<td>R44 SR3</td>
</tr>
<tr>
<td>Component Part Number</td>
<td>MJ98-12A650-BEH</td>
</tr>
</tbody>
</table>

### Supplier Identification:

**Component Manufacturer**

- **Name**: Ford Motor Company
- **Address**: One American Road
  - Dearborn Michigan 48126
- **Country**: United States

### Chronology:

On March 1, 2022, an issue pertaining to a Mustang Mach-E secondary axle torque software error was brought into Ford’s Critical Concern Review Group (CCRG) for review.

The CCRG investigation received one report of a vehicle incorrectly detecting a lateral hazard on the primary axle causing the vehicle to enter a speed limited state on March 18, 2022. Ford is not aware of any VOQs related...
to this condition.

On May 6, 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:
The remedy for this program is a powertrain control module software update. Ford is anticipated to begin Over-The-Air (OTA) deployment to update the powertrain control module software for affected vehicles in May 2022. Alternatively, owners will have the option to take their vehicle to a Ford or Lincoln dealer to complete the software update. 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 17, 2022.

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

How Remedy Component Differs from Recalled Component:
The updated powertrain control module software will be updated to R44 SR4 (MJ98-12A650-AXJ, MJ98-12A650-BBJ, or MJ98-12A650-BEJ) which reports the secondary axle torque value properly.

Identify How/When Recall Condition was Corrected in Production:
The affected powertrain control module software was only released as a service release, and was never introduced into production.

Recall Schedule:

Description of Recall Schedule:
Notification to dealers is expected to occur on May 16, 2022. Mailing of owner notification letters is expected to begin May 30, 2022 and is expected to be completed by June 3, 2022.

Planned Dealer Notification Date: MAY 16, 2022 - MAY 16, 2022
Planned Owner Notification Date: MAY 30, 2022 - MAY 30, 2022

* NR - Not Reported