

**TECHNICAL SERVICE BULLETIN****Reverse Brake Assist Unavailable Message, Missing Active Guide Lines
And/Or DTC U0415:86 In The Image Processing Module A (IPMA)****22-2214**

31 May 2022

Model:

Ford
2021 F-150
2021 Mustang Mach-E

Issue: Some 2021 Mustang Mach-E/F-150 vehicles may exhibit a Reverse Brake Assist Unavailable message displayed in the instrument panel cluster (IPC) with missing active guide lines in the reverse camera display and/or diagnostic trouble code (DTC) U0415:86 stored in the IPMA. This may be due to a software issue with the anti-lock brake system (ABS) module. To correct the condition, follow the Service Procedure to reprogram the ABS module.

Action: Follow the Service Procedure to correct the condition that meet all of the following criteria:

- 2021 Mustang Mach-E/F-150
- At least one of the following conditions:
 - Reverse Brake Assist Unavailable message displayed in the IPC with missing active guide lines in the reverse camera display
 - DTC U0415:86 stored in the IPMA

Warranty Status: Eligible under provisions of New Vehicle Limited Warranty (NVLW)/Service Part Warranty (SPW)/Service Part New Vehicle (SPNV)/Extended Service Plan (ESP) coverage. Limits/policies/prior approvals are not altered by a TSB. NVLW/SPW/SPNV/ESP coverage limits are determined by the identified causal part and verified using the OASIS part coverage tool.

Labor Times

Description	Operation No.	Time
2021 Mustang Mach-E, F-150: Retrieve DTCs, Reprogram The ABS Module Following The Service Procedure (Do Not Use With Any Other Labor Operations)	MT222214	Actual Time

Repair/Claim Coding

Causal Part:	2005
Condition Code:	04

Service Procedure

NOTE: When performing the ABS module software update, additional modules may receive software updates. Depending on vehicle features, the coordinated software update may include the powertrain control module (PCM), secondary on-board diagnostic module C (SOBDMC), ABS module and/or battery energy control module (BECM).

1. Reprogram the ABS module using the latest software level of the appropriate Ford diagnostic scan tool. Follow all on-screen instructions carefully to complete all coordinated module software updates.

NOTE: Advise the customer this vehicle is equipped with an adaptive transmission shift strategy which allows the vehicle's computer to learn the transmission's unique parameters and improve shift quality. When the adaptive strategy is reset, the computer will begin a relearning process. This relearning process may result in firmer than normal upshifts and downshifts for several days.

2. Perform the steering center find relearn by driving the vehicle for approximately 5 minutes, above 18 mph (30 km/h) and with no steering wheel input for a few seconds.
3. Are the active guide lines missing from the reverse camera display when the vehicle is placed in reverse (R)?
 - (1). Yes - proceed to Step 4.
 - (2). No - repair is complete.
4. Perform the Ford Diagnosis and Repair System (FDRS) Image Processing Module A (IPMA) Alignment procedure.
5. Perform the appropriate FDRS camera alignment procedure.
 - (1). For vehicles equipped with 360 degree cameras, perform the IPMA - 360 Degree View Camera Alignment procedure.
 - (2). For all other vehicles, perform the IPMA - Pro Trailer Backup Assist Camera Alignment procedure. This procedure should be performed on all vehicles without 360 degree cameras, even if the vehicle is not equipped with pro trailer backup assist (PTBA).

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NOTE: The information in Technical Service Bulletins is intended for use by trained, professional technicians with the knowledge, tools, and equipment to do the job properly and safely. It informs these technicians of conditions that may occur on some vehicles, or provides information that could assist in proper vehicle service. The procedures should not be performed by "do-it-yourselfers". Do not assume that a condition described affects your car or truck. Contact a Ford or Lincoln dealership to determine whether the Bulletin applies to your vehicle. Warranty Policy and Extended Service Plan documentation determine Warranty and/or Extended Service Plan coverage unless stated otherwise in the TSB article. The information in this Technical Service Bulletin (TSB) was current at the time of printing. Ford Motor Company reserves the right to supersede this information with updates. The most recent information is available through Ford Motor Company's on-line technical resources.