



## TECHNICAL SERVICE BULLETIN

### 3.5L PowerBoost - Illuminated Powertrain Malfunction (Wrench) Indicator With DTC P2C44:00 Stored In The PCM

**23-2031**02 March  
2023**Model:**

<b>Ford</b> 2021-2022 F-150	Engine: 3.5L PowerBoost Transmission/Transaxle: 10R80-MHT
--------------------------------	--

**Issue:** Some 2021-2022 F-150 vehicles equipped with a 3.5L PowerBoost engine and 10R80-MHT transmission may exhibit an illuminated powertrain malfunction (wrench) indicator with diagnostic trouble code (DTC) P2C44:00 stored in the powertrain control module (PCM). This may be due to the software in the PCM and the auxiliary battery isolator. To correct the condition, follow the Service Procedure to reprogram the PCM and replace the auxiliary battery isolator.

**Action:** Follow the Service Procedure to correct the condition if the vehicle meets all of the following criteria:

- 2021-2022 F-150
- 3.5L PowerBoost
- 10R80-MHT Transmission
- Illuminated powertrain malfunction (wrench) indicator with DTC P2C44:00 stored in the PCM

**Parts****Required Parts**

Service Part Number	Quantity	Description	Unit of Issue	Piece Quantity
ML3Z-14526-B	1	Auxiliary Battery Isolator	1	1

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

**Labor Times**

Description	Operation No.	Time
2021-2022 F-150 3.5L PowerBoost: Retrieve DTCs, Reprogram The PCM Following The Service Procedure Includes Time To Replace The Auxiliary Battery Isolator (Do Not Use With Any Other Labor Operations)	MT232031	Actual Time Up To 0.7 Hrs.

**Repair/Claim Coding**

Causal Part:	14526
Condition Code:	04

**Service Procedure**

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

1. Reprogram the PCM using the latest software level of the Ford Diagnosis and Repair System (FDRS). Follow all on-screen instructions carefully to complete all coordinated module software updates. Proceed to Step 2.

**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. Replace the auxiliary battery isolator. Refer to Workshop Manual, Section 414-01.

---

© 2023 Ford Motor Company

All rights reserved.

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.