



TECHNICAL SERVICE BULLETIN

Illuminated Malfunction Indicator Lamp (MIL) With Diagnostic Trouble Codes (DTCs) P0300, P0316, P0301, P0302, P0302, P0304, P0305 And/Or P0306 Stored In The PCM - Built On Or Before 14-May-2024

24-2191

13 June 2024

Model:

Ford 2024 F-150	Engine: 3.5L PowerBoost Built on or before 14-May-2024
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Markets: North American market only

Issue: Some 2024 F-150 vehicles built on or before 14-May-2024 equipped with a 3.5L PowerBoost may exhibit an illuminated MIL and set cylinder misfire DTCs P0300, P0316, P0301, P0302, P0302, P0304, P0305 and/or P0306. This may be due to the software level of the PCM. To correct this condition, perform the Service Procedure to reprogram the PCM to the latest software level via the FDRS.

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

- 2024 F-150 built on or before 14-May-2024
- Equipped with 3.5L PowerBoost
- DTCs P0300, P0316, P0301, P0302, P0302, P0304, P0305 and/or P0306 stored in the PCM

Warranty Status: Eligible under provisions of New Vehicle Limited Warranty (NVLW)/Emissions Warranty/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/Emissions Warranty/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
2024 F-150 3.5L PowerBoost: Retrieve DTCs, Reprogram The PCM, Download And Run The Power Balance Application (Do Not Use With Any Other Labor Operations)	242191A	0.4 Hrs.

Repair/Claim Coding

Causal Part:	RECALEM
Condition Code:	04

Service Procedure

1. Reprogram the PCM using the latest level software level of the FDRS 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. Clear and retest the DTCs in the PCM.
3. Download and run the Power Balance application using the latest software level of the FDRS scan tool.
4. Are all cylinders contributing correctly during the power balance test?

(1). Yes - repair is complete.

(2). No - refer to the WSM, Section 303-07D Engine Ignition - 3.5L V6 PowerBoost, Diagnosis and Testing for additional diagnosis outside of this article.

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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.