



TECHNICAL SERVICE BULLETIN

3.5L PowerBoost - Illuminated MIL With DTCs P0300, P0301-P0306, P0316, P050E, P1674, P0454 And/Or P2451 In The PCM - Built On Or Before 23-Apr-2021

22-2151

22 April 2022

This bulletin supersedes 21-2131.

Model:

Ford 2021 F-150	Engine: 3.5L PowerBoost Built on or before 23-Apr-2021
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Summary

This article supersedes TSB 21-2131 to update the Service Procedure and labor operation allowance.

Issue: Some 2021 F-150 vehicles equipped with a 3.5L PowerBoost engine and built on or before 23-Apr-2021 may experience an illuminated malfunction indicator lamp (MIL) with diagnostic trouble codes (DTCs) P0300, P0301-P0306, P0316, P050E, P1674, P0454 and/or P2451 stored in the powertrain control module (PCM). This may be due to various software parameters within the PCM. To correct the condition, follow the Service Procedure to reprogram the PCM.

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

- 2021 F-150
- 3.5L PowerBoost engine
- Built on or before 23-Apr-2021
- Exhibits an illuminated MIL with DTCs P0300, P0301-P0306, P0316, P050E, P1674, P0454 and/or P2451 stored in the PCM

Warranty Status: Eligible under provisions of New Vehicle Limited Warranty (NVLW)/Emissions Warranty/Service Part Warranty (SPW)/Special Service Part (SSP)/Extended Service Plan (ESP) coverage. Limits/policies/prior approvals are not altered by a TSB. NVLW/Emissions Warranty/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 F-150 3.5L PowerBoost: Retrieve DTCs, Reprogram The PCM And Any Additional Modules Required By The Software Update (Do Not Use With Any Other Labor Operations)	MT222151	Actual Time

Repair/Claim Coding

Causal Part:	RECALEM
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) and/or battery energy control module (BECM).

1. Reprogram the PCM 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.

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