



TECHNICAL SERVICE BULLETIN

21-2158

17 May 2021

5.0L - Runs Rough/Hesitation/Lack Of Power/Illuminated MIL With DTCs P0301, P0304, P0306, P0307, P3402, P3426, P3442 And/Or P3450 In PCM

Model:

Ford 2021 F-150	Engine: 5.0L
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Issue: Some 2021 F-150 vehicles equipped with a 5.0L engine and built on or before 23-Apr-2021 may experience a runs rough, hesitation and/or a lack of power condition with an illuminated malfunction indicator lamp (MIL) and diagnostic trouble codes (DTCs) P0301, P0304, P0306, P0307, P3402, P3426, P3442 and/or P3450 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 and reset the keep alive memory (KAM).

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

- 2021 F-150
- 5.0L engine
- Built on or before 23-Apr-2021
- At least one of the following:
 - Runs rough
 - Hesitation
 - Lack of power
 - Illuminated MIL with DTCs P0301, P0304, P0306, P0307, P3402, P3426, P3442 and/or P3450 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 5.0L: Retrieve DTCs, Reprogram The PCM And Reset KAM (Do Not Use With Any Other Labor Operations)	212158A	0.3 Hrs.

Repair/Claim Coding

Causal Part:	RECALEM
Condition Code:	04

Service Procedure

1. Reprogram the PCM using the latest software level of the appropriate Ford diagnostic scan tool.
2. Reset the KAM in the PCM.

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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