



TECHNICAL SERVICE BULLETIN

2.7L EcoBoost - Illuminated Malfunction Indicator Lamp (MIL) - DTC P0300, P0316, P0301-P0306, P2196, P2198, P0171, And/Or P0174 - Built On Or Before 12-Jul-2018

18-227030 August
2018**Model:**

Ford 2018 F-150

Issue: Some 2018 F-150 vehicles equipped with a 2.7L EcoBoost built on or before 12-Jul-2018 with greater than 500 miles may exhibit an illuminated MIL with diagnostic trouble codes (DTC) P0300, P0316, P0301-P0306, P2196, P2198, P0171, and/or P0174 stored in the powertrain control module (PCM).

Action: Follow the Service Procedure steps to correct the condition.

Parts

Part Number	Description	Quantity
JT4Z-9F593-B	High Pressure Direct Fuel Injector	6
JT4Z-9C995-A	Injector Clip	6
JT4Z-9J323-A	High Pressure Fuel Tube	1
FT4Z-9J323-B	High Pressure Fuel Tube	1
FOPZ-9229-A	Port Fuel Injector O-Ring Kit	1
JT4Z-9E464-B	Exhaust Gas Recirculation (EGR) Gasket	1
JT4Z-9H486-A	Intake Gasket Kit	1

Warranty Status: Eligible Under Provisions Of New Vehicle Limited Warranty Coverage And Emissions Warranty Coverage Warranty/ESP coverage limits/policies/prior approvals are not altered by a TSB. Warranty/ESP coverage limits are determined by the identified causal part and verified using the OASIS part coverage tool.

Labor Times

Description	Operation No.	Time
2018 F-150 2.7L: Retrieve DTCs, Monitor PIDs And Replace The Direct Injection Fuel Injectors (Do Not Use With Any Other Labor Operations)	182270A	4.4 Hrs.

Repair/Claim Coding

Causal Part:	9F593
Condition Code:	42

Tool List

Drive	Tool Name
1/4"	Power Tool
1/4"	Torque Wrench
1/4"	Ratchet
1/4"	2" Extension
1/4"	6" Extension
1/4"	10" Extension

Drive	Tool Name
1/4"	7 mm Socket
1/4"	10 mm Socket
1/4"	13 mm Socket
1/4"	8 mm Deep Socket
1/4"	10 mm Deep Socket
	Small Trim Tool
	Large Trim Tool
	10 mm Wrench
	18 mm Wrench
	18 mm Crows Foot (Flare)
	3/8" Fuel Line Disconnect
	Mirror
	Pliers
	Shop Light

Tool Number	Essential Special Service Tool
303-1567	Teflon Seal Sizer
307-005	Slide Hammer
310-205	Fuel Injector Brush
310-206	Fuel Injector Remover
310-207	Fuel Injector Seal Assembly Installer

Service Procedure

- Check the vehicle build date. Was the vehicle built on before 12-Jul-2018 and have more than 500 miles on the odometer?
 - Yes - proceed to Step 2.
 - No - this article does not apply. Refer to the Powertrain Control/Emissions Diagnosis (PC/ED) Manual for diagnostics.
- Using the appropriate Ford diagnostic scan tool or equivalent, retrieve DTCs. Are DTCs P0300, P0316, P0301-P0306, P2196, P2198, P0171, and/or P0174 stored in the PCM?
 - Yes - proceed to Step 3.
 - No - this article does not apply. Refer to the PC/ED Manual for diagnostics.
- Monitor fuel rail pressure using the appropriate Ford diagnostic scan tool. Start the engine and allow it to idle for 30 seconds. Shut off the engine and monitor fuel rail pressure. Does the fuel rail pressure drop below 6.9 kPa (10 psi) within 30 seconds after engine shut down?
 - Yes - replace the direct injection fuel injectors. Refer to the Workshop Manual (WSM), Section 303-04A.
 - No - this article does not apply. Refer to the PC/ED Manual for diagnostics.

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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.

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