



TECHNICAL SERVICE BULLETIN

Illuminated Powertrain Malfunction (Wrench) Indicator/MIL With DTCs P1299, P1285 And/Or P2C39 Stored in the PCM With An "Engine Over-Temperature" And/Or "Service Vehicle Soon" Warning Message(s) Displayed In The IPC

26-2217

06 May 2026

This bulletin supersedes 24-2441. Reason for update: consolidation of prior bulletins and an update to the Service Procedure to diagnose and replace the cylinder head temperature (CHT) sensor with an updated version.

Model:

Ford 2024-2025 F-150	Engine: 2.7L EcoBoost
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Markets: North American markets only.

Issue: Some of the vehicles listed in the Model statement above may exhibit all of the following conditions:

- Illuminated powertrain malfunction (wrench) indicator/MIL with DTCs P1299, P1285, and/or P2C39 stored in the PCM.
- "Engine Over-Temperature" and/or "Service Vehicle Soon" warning message(s) displayed in the IPC.

This may be due to the software in the PCM and/or the CHT sensor.

NOTE: The vehicle's cooling fan will operate normally with no loss of engine coolant.

Action: For vehicles that meet all of the criteria in the Issue and Model Statements, follow the Service Procedure to reprogram the PCM and/or install a new CHT sensor.

Parts

Service Part Number	Claim Quantity	Description
GN1Z-6G004-A	Only If Necessary (Up To 1)	CHT Sensor

Claim Quantity refers to the total number of individual pieces required to repair the vehicle. This may differ from the number of service part number packages due to the unit of issue (UOI).

As Needed indicates the part is necessary but amount of the part may vary and/or is not a whole number. Parts can be billed out as non-whole numbers, including less than 1.

Only If Necessary indicates the part is not mandatory. Refer to the Service Procedure to determine the inspection/inclusion criteria.

Warranty Status: Warranty coverage limits and policies are not altered by a TSB. Warranty coverage limits are determined by the identified causal part.

Labor Times

Description	Operation No.	Time
2024 F-150 2.7L EcoBoost: Retrieve DTCs And Reprogram The PCM (Do Not Use With Any Other Labor Operations)	262217A	0.3 Hrs
2024 F-150 2.7L EcoBoost: Retrieve DTCs And Reprogram The PCM And Replace The CHT	262217B	0.5 Hrs
2025 F-150 2.7L EcoBoost: Retrieve DTCs And Replace The CHT	262217C	0.4 Hrs
2024-2025 2.7L EcoBoost: Perform PPT Following The Service Procedure Use (Can Be Claimed With Operation B Or C)	MT262217D	Actual time up to 1.0 Hrs

Repair/Claim Coding

Causal Part:	RECALEM
Condition Code:	04

Service Procedure

1. Is the vehicle a 2024 F-150 setting DTC P2C39?

- (1). Yes - download and run the "PCM - Powertrain Control Module (PCM) Software Update" application using the latest software level of the FDRS scan tool.
- (2). No - 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. Is the vehicle a 2024-2025 F-150 with DTCs P1285 and/or P1299 stored in the PCM?

- (1). Yes - follow the WSM, Section 303-03A Engine Cooling - 2.7L EcoBoost > Diagnosis and Testing > Engine Temperature > Pinpoint Test DL and perform Steps DL1-DL10. If DTCs P1285 and/or P1299 are still present, replace the CHT sensor using the part number listed in the TSB parts list.
- (2). No, answered Yes in Step 1 - repair is complete.
- (3). No, answered No in Step 1 - this article does not apply. Refer to the WSM, Section 303-03A for normal diagnostics and repair as necessary outside of this article.