



TECHNICAL SERVICE BULLETIN

2.7L EcoBoost Engine - Engine Over-Temperature Warning Displayed In The IPC And Illuminated MIL With DTCs P1299 And/Or P2C39 Stored In The PCM

24-2441

19 December 2024

Model:

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

Issue: Some 2024 F-150 vehicles equipped with a 2.7L EcoBoost engine may exhibit an engine over-temperature warning displayed in the IPC and an illuminated MIL with DTCs P1299 and/or P2C39 stored in the PCM. The vehicle's cooling fan will operate normally with no loss of engine coolant. This may be due to software in the PCM. To correct the condition, follow the Service Procedure to reprogram the PCM using the latest software level of the FDRS scan tool.

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

- 2024 F-150
- 2.7L EcoBoost engine
- Engine over-temperature warning displayed in the IPC
- Illuminated MIL with DTCs P1299 and/or P2C39
- Vehicle's cooling fan operates normally with no loss of engine coolant

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 2.7L EcoBoost: Retrieve DTCs And Reprogram The PCM (Do Not Use With Any Other Labor Operations)	242441A	0.3 Hrs.

Repair/Claim Coding

Causal Part:	RECALEM
Condition Code:	04

Service Procedure

1. Connect a battery charger such as Rotunda GRX-3590 or DCA-8000 to the 12-volt battery.

NOTE: To prevent the battery saver mode from activating on the vehicle, make sure the negative cable of the charger is installed on a chassis or engine ground, and not the 12-volt battery negative terminal. Make sure only the 12-volt battery charger is installed.

2. Reprogram the PCM using the latest software level of the FDRS.

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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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.