



TECHNICAL SERVICE BULLETIN

25-2399

Illuminated Engine Coolant Temperature Warning Lamp With "Motor Coolant Over Temperature" Message In The IPC With DTC P0A2F:94 Stored In The SOBDMC

28 August
2025

This bulletin supersedes 23-2412. Reason for update: update the causal part and update the labor times from M-time to AP-time and add a limit.

Model:

Ford 2022-2023 F-150	Engine: 3.5L PowerBoost
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Markets: North American markets only

Issue: Some of the vehicles listed in the Model statement above may exhibit an illuminated engine coolant temperature warning lamp with a "Motor Coolant Over Temperature" message in the IPC with DTC P0A2F:94 stored in the SOBDMC. This may be due to the software level of the SOBDMC.

Action: For vehicles that meet all of the criteria in the Issue and Model statements, follow the Service Procedure reprogram the SOBDMC.

Warranty Status: Eligible under provisions of New Vehicle Limited Warranty (NVLW)/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/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
2022-2023 F-150 Hybrid: Retrieve DTCs And Reprogram The Appropriate Modules Following The Procedure (Do Not Use With Any Other Labor Operation)	AP252399A	Actual Time Up To 0.4 Hrs.

Repair/Claim Coding

Causal Part:	7P120
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. Do not have the vehicle plugged into a high voltage battery charger during programming. This can cause incorrect module programming. Make sure only the 12-volt battery charger is installed.

2. Reprogram the SOBDMC using the latest software level of the FDRS scan tool. Follow all on-screen instructions carefully to complete all required coordinated module software update(s), including:

- PCM
- ABS module
- BECM

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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