



TECHNICAL SERVICE BULLETIN

Illuminated MIL With DTCs P0301-P0306, P0201-P0206 And/Or Various Other DTCs Stored In The PCM

25-2569

17 November
2025

Model:

| | |
|--------------------------------|---|
| Ford 2021-2025 F-150 | Engine: 3.5L PowerBoost Built on or before 14-Apr-2025 |
|--------------------------------|---|

Markets: North American markets only

Issue: Some of the vehicles listed in the Model statement above may exhibit an illuminated MIL with DTCs P0301-P0306, P0201-P0206 and/or various other powertrain DTCs stored in the PCM. This may be due to the engine harness contacting the hose crimp end or spring clamp tangs on the exhaust heat exchanger heater hose assembly.

Action: For vehicles that meet all of the criteria in the Issue and Model statements, follow the Service Procedure to inspect/rotate the exhaust heat exchanger heater hose clamp if required, repair damaged circuits as necessary and install protective shielding.

Parts

| Service Part Number | Claim Quantity | Package Order Quantity | Number in Package | Description |
|---------------------|----------------|------------------------|-------------------|--|
| JX7Z-14A099-T | 3 | 3 | 1 | Shield Protector |
| Obtain Locally | As Needed | As Needed | | Rotunda Coroplast Electrical Wire Harness Tape Or Equivalent |

Service part numbers and "number in package" quantity may change after publication, thus also affecting the "package order quantity". Refer to the parts catalog for the latest information.

Claim Quantity refers to the total number of individual pieces required to repair the vehicle.

Package Order Quantity refers to the amount of the service part number package(s) required to repair the vehicle.

Number In Package refers to the number of individual pieces included in a service part number package.

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.

Labor Times

| Description | Operation No. | Time |
|--|---------------|----------|
| 2021-2025 F-150 3.5L PowerBoost: Inspect Hose Clamp And Wire Harness Includes Time To Adjust Hose Clamp If Necessary And Install Shield Protectors Following The Service Procedure | 252569A | 0.9 Hrs. |
| Additional Time To Repair Affected Wires And Loom (Can Be Claimed With A) | 252569B | 0.7 Hrs. |

Repair/Claim Coding

| | |
|-----------------|--------|
| Causal Part: | 12C508 |
| Condition Code: | 30 |

Service Procedure

1. Disconnect the PCM electrical connectors to allow access for inspection and repair. Refer to WSM, Section 303-14 Electronic Engine Controls - 3.5L V6 PowerBoost > Removal and Installation > Powertrain Control Module (PCM)

Removal, Steps 1-5.

2. Is this a 2021-2022 F-150?

(1). Yes - proceed to Step 5.

(2). No - proceed to Step 3.

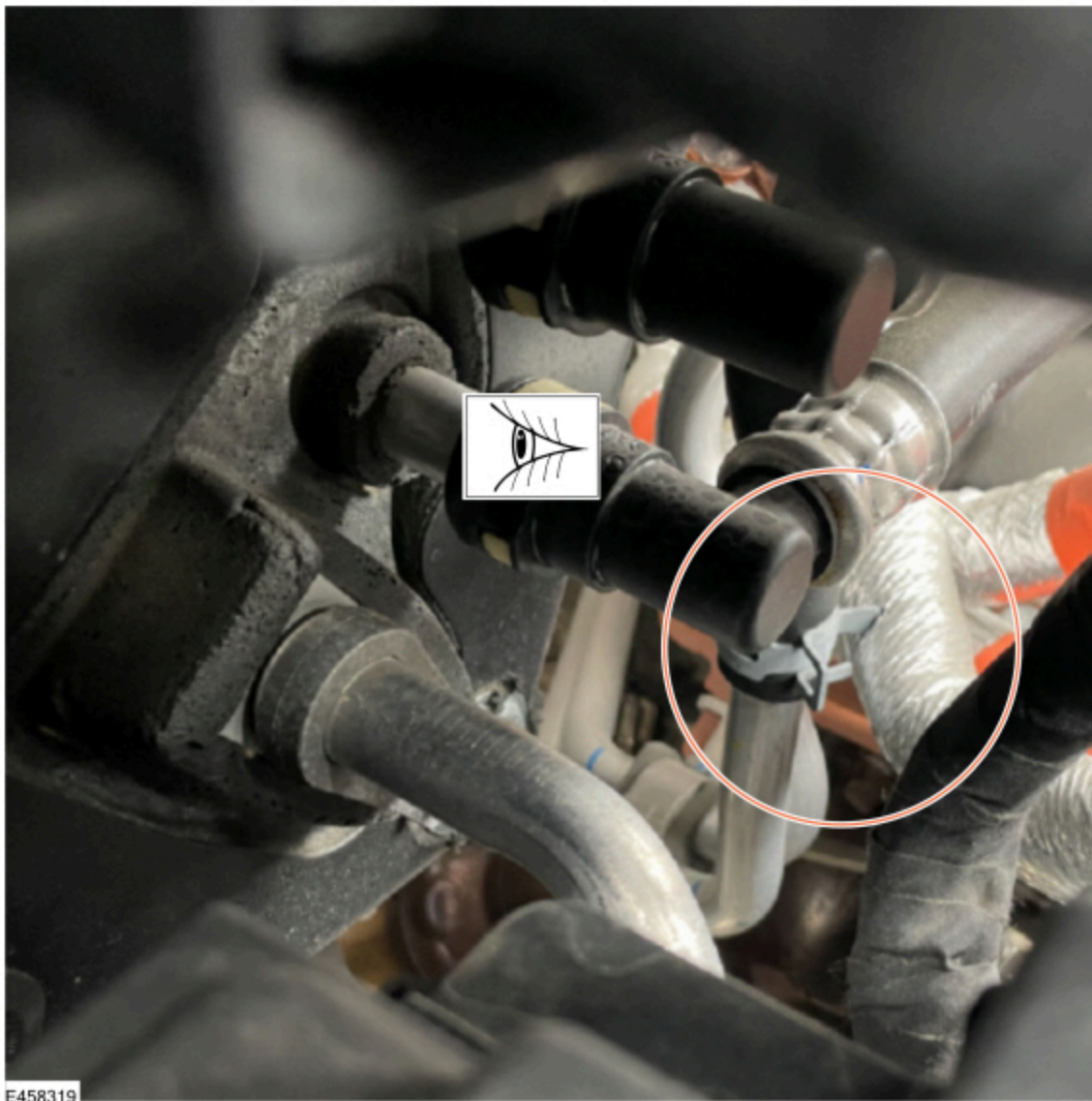
3. Is this a 2023-2025 F-150 built on or before 14-Apr-2025?

(1). Yes - proceed to Step 4.

(2). No - this article does not apply. Refer to the WSM for normal diagnostics.

4. Locate the exhaust heat exchanger heater hose assembly spring clamp under the hood near the rear of the engine beneath the PCM. Refer to the WSM, Section 303-03C > Description and Operation > Component Location and Figure 1. Observe the orientation of the spring clamp. Are the heater hose clamp tangs pointed toward and/or contacting the 12A581B engine harness? (Figure 1)

Figure 1



(1). Yes - rotate the hose clamp 180 degrees so that the tangs are orientated away from the harness. (Figure 2)
Proceed to Step 5.

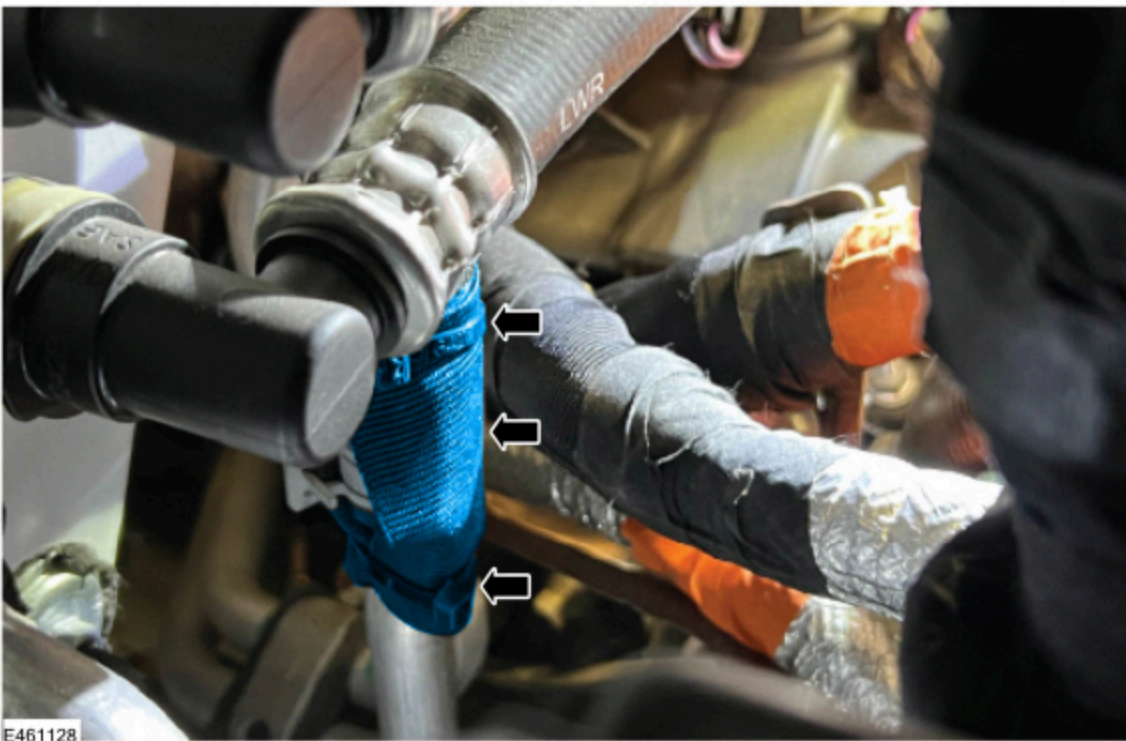
Figure 2



(2). No - proceed to Step 5.

5. Using a shield protector, wrap the hose with the shielding centered over the hose clamp or hose crimp end with the opening of the shield protector facing the clamp tangs. Secure in place using a cable tie at each end. (Figure 3)

Figure 3



6. Inspect the engine harness for damage such as exposed internal wiring from hose clamp contact. Repair any affected wires and loom per Cell 005 of the Wiring Diagram.
7. Wrap the engine harness (12A581) using a shield protector centered over the engine harness to hose clamp contact area with the opening of the shield protector facing downward. Secure the shield protector in place with Coroplast Electrical Wire Harness tape. (Figure 3)
8. Remove the 2 high voltage harness retainer pins from the mounting brackets. (Figure 4)

Figure 4



9. Wrap the high voltage harness (14289) using a shield protector centered over where it contacts the engine harness (12A581) with opening of the shield protector facing the harness retainer pins. Secure the shield protector in place using Coroplast Electrical Wire Harness Tape.(Figure 5)

Figure 5



10. Re-install the PCM electrical connectors. Refer to WSM, Section 303-14 Electronic Engine Controls > Removal and Installation > Powertrain Control Module (PCM) Installation, Step 1.
11. Clear DTCs using the FDRS scan tool.

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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.