TECHNICAL SERVICE BULLETIN
DTC P05B0 Stored In The PCM During A Self-Test

26-2436
29 October 2026

Model:

Ford 2023-2025 F-150	Built on or before 1-May-2025 Engine: 2.7L EcoBoost Engine: 3.5L EcoBoost Engine: 3.5L PowerBoost Engine: 5.2L Raptor Lightning

Markets: North American markets only

Issue: Some of the vehicles listed in the Model statement above may exhibit DTC P05B0 stored in the PCM during a self-test. An illuminated MIL will be present on 2024-2025 vehicles with DTC P05B0 stored in the PCM. This may be due to a damaged lower active grille shutter housing end stops and/or vane lobe (allowing for over travel) or a lower active grille shutter actuator.

Action: For vehicles that meet all of the criteria in the Issue and Model statement, follow the Service procedure to inspect and replace the lower active grille shutter housing or the lower active grille shutter actuator.

Parts - Parts To Inspect And Replace Only If Necessary

Service Part Number	Claim Quantity	Number in Package	Description	Note
ML3Z-8475-E	Only If Necessary (Up To 1)		Lower Active Grille Shutter Housing	2023 F-150, Gas/FHEV (Except 5.2L Raptor)
NL3Z-8475-B	Only If Necessary (Up To 1)		Lower Active Grille Shutter Housing	2023 F-150, 5.2L Raptor
RL3Z-8475-C	Only If Necessary (Up To 1)		Lower Active Grille Shutter Housing	2024-2025 F-150, Gas/FHEV (Except Lightning)
NL3Z- 8475-A	Only If Necessary (Up To 1)		Active Grille Shutter Housing	2023-2025 F-150 Lightning
ML3Z-10884-E	Only If Necessary (Up To 1)		Lower Active Grille Shutter Actuator	2023-2025 F-150, Gas/FHEV
NL3Z-10884-A	Only If Necessary (Up To 1)		Active Grille Shutter Actuator	2023-2025 F-150 Lightning

NOTE: All other parts/lubricants/fluids required by the WSM or instructed by the WSM to inspect and replace as necessary should be claimed outside of this article.

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 the 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

2023-2025 F-150 2.7L/3.5L EcoBoost And F-150 PowerBoost: Retrieve DTCs, And Inspect The Lower Active Grille Shutter Vane Lobe And Lower Active Grille Shutter Housing End Stops (Pass), Replace The Lower Active Grille Shutter Actuator	262436A	0.4 Hrs
2023-2025 F-150 Raptor/Tremor 3.5L EcoBoost/5.2L Predator: Retrieve DTCs, And Inspect The Lower Active Grille Shutter Vane Lobe And Lower Active Grille Shutter Housing End Stops (Pass), Replace The Lower Active Grille Shutter Actuator	262436B	0.8 Hrs
2023-2025 F-150 2.7L/3.5L EcoBoost And F-150 PowerBoost: Retrieve DTCs, And Inspect The Lower Active Grille Shutter Vane Lobe And Lower Active Grille Shutter Housing End Stops (Fail), Replace The Lower Active Grille Shutter Housing	262436C	2.3 Hrs
2023-2025 F-150 Raptor/Tremor 3.5L EcoBoost, 5.2L Predator: Retrieve DTCs, And Inspect The Lower Active Grille Shutter Vane Lobe And Lower Active Grille Shutter Housing End Stops (Fail), Replace The Lower Active Grille Shutter Housing	262436D	2.8 Hrs
2023-2025 F-150 Lightning: Retrieve DTCs, Remove Lower Grille Shutter Actuator And Inspect The Lower Active Grille Shutter Vane Lobe And Lower Active Grille Shutter Housing End Stops (Pass), Replace The Lower Active Grille Shutter Actuator	262436E	2.4 Hrs
2023-2025 F-150 Lightning: Retrieve DTCs, Remove Lower Grille Shutter Actuator And Inspect The Lower Active Grille Shutter Vane Lobe And Lower Active Grille Shutter Housing End Stops (Fail), Replace The Lower Active Grille Shutter Housing	262436F	2.5 Hrs

Repair/Claim Coding

Causal Part:	8475
Condition Code:	01

Service Procedure

1. Remove the lower active grille shutter actuator.

(1). For Lightning vehicles, refer to WSM, Section 501-02 > Removal and Installation > Active Grille Shutter Actuator-Electric.

(2). For gas/FHEV vehicles, refer to WSM > Section 501-02 > Removal and Installation > Active Grille Shutter Actuator > Lower Active Grille Shutter Actuator.

2. Inspect the lower active grille shutter vane lobe and the upper/lower housing end stops. (Figures 1-5)

Figure 1 - Lower active grille shutter inspection zone

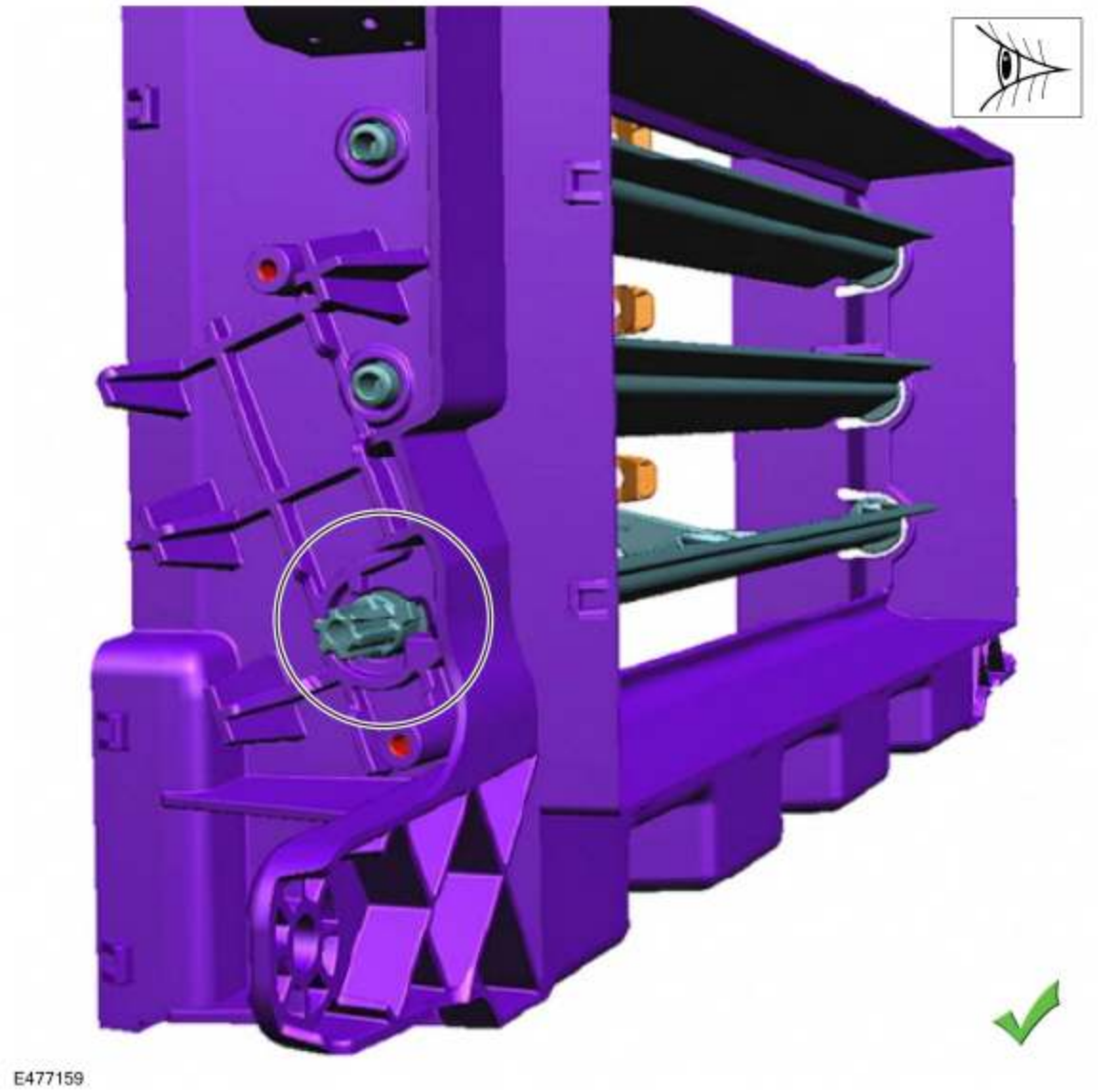
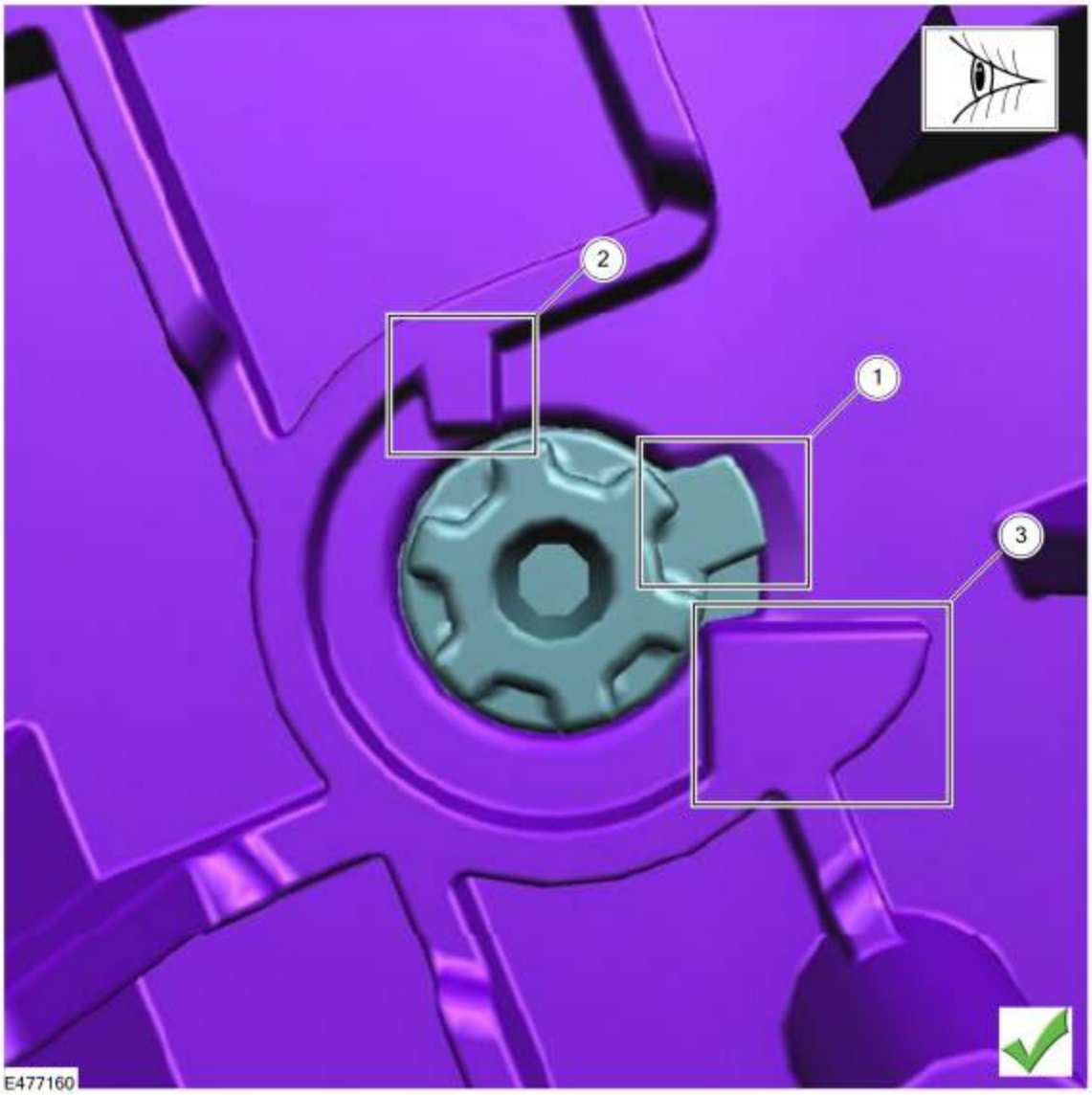
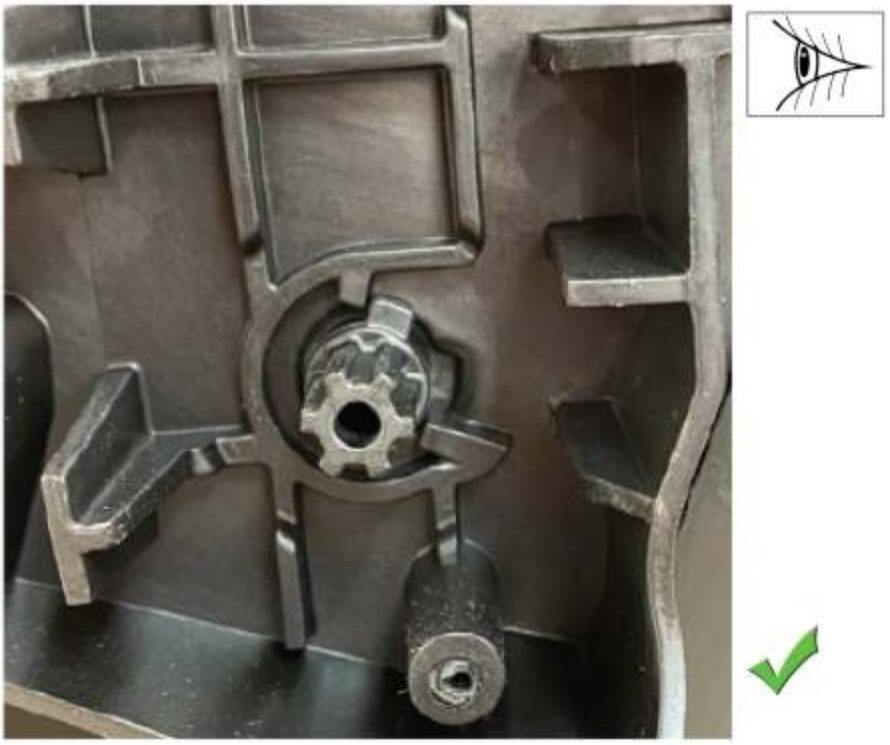


Figure 2 - Lower active grille shutter inspection components



Item	Description
1	Lower active grille shutter vane lobe
2	Upper housing end stops
3	Lower housing end stops

Figure 3 - Lower active grille shutter housing in good conditions



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Figure 4 - Lower active grille shutter with the lower housing end stops damaged



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Figure 5 - Damaged/missing lower active grille shutter vane lobe



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3. Are any of these three components of the lower active grille shutter missing or damaged?

(1). Yes - replace the lower active grille shutter housing. Refer to WSM, Section 501-02 > Removal and Installation > Active Grille Shutter.

(2). No - replace the lower active grille shutter actuator. Refer to WSM, Section 501-02 > Removal and Installation > Active Grille Shutter Actuator.

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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.