



TECHNICAL SERVICE BULLETIN

6.7L - Illuminated MIL With DTCs U029D, U029E, P22A7 And/Or P2209 - Built On Or Before 10-Jun-2020

20-206701 February
2021

This bulletin supersedes 18-2365. Reason for update: Concern Carryover to New Model

Model:

Ford 2017-2020 F-Super Duty	Engine: 6.7L
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Summary

This article supersedes TSB 18-2365 to update the vehicles affected and Parts List.

Issue: Some 2017-2020 F-Super Duty vehicles equipped with a 6.7L engine built on or before 10-Jun-2020 may exhibit an illuminated malfunction indicator lamp (MIL) with diagnostic trouble codes (DTCs) U029D, U029E, P22A7 and/or P2209 in the powertrain control module (PCM). This may be due to water intrusion into the oxides of nitrogen (NOx) connectors. To correct the condition, follow the Service Procedure to inspect the NOx sensor module and replace the 14406 wire harness.

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

- 2017-2020 F-Super Duty
- Built on or before 10-Jun-2020
- 6.7L engine
- DTCs U029D, U029E, P22A7 and/or P2209 stored in the PCM

NOTE: Part quantity refers to the number of that service part number required, which may be different than the number of individual pieces. Service part numbers contain 1 piece unless otherwise stated. "As Needed" indicates the part is required but the number may vary or is not a whole number; parts can be billed out as non-whole numbers, including less than 1. "If Needed" indicates the part is not mandatory.

Parts

Part Number		Description	Quantity
95875-S100	Package Contains 10 Pieces, 4 Pieces Required	Securing Strap	1
W717460-S300	Package Contains 4 Pieces, 2 Pieces Required For Sensor Module 11, 3 Pieces Required For Sensor Module 12	Pin Fastener	1 Per Sensor
14406	-	Wiring Harness - Refer To The Parts Catalog For The VIN Specific Application	1
XL-1	-	Motorcraft® Penetrating and Lock Lubricant	As Needed
Obtain Locally	-	Bostik Never-Seez Regular Grade (Nickel Free) Anti-Seize and Lubricating Compound	As Needed
Parts To Replace Based On The Affected Components			
HC3Z-5L248-A	-	NOx Sensor Module 11 (2017-2019)	If Needed
LC3Z-5L248-A	-	NOx Sensor Module 11 (2020)	If Needed

HC3Z-5E145-C	-	NOx Sensor Module 12	If Needed
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Warranty Status: Eligible under provisions of New Vehicle Limited Warranty (NVLW)/Emissions Warranty/Service Part Warranty (SPW)/Special Service Part (SSP)/Extended Service Plan (ESP) coverage. Limits/policies/prior approvals are not altered by a TSB. NVLW/Emissions Warranty/SPW/SSP/ESP coverage limits are determined by the identified causal part and verified using the OASIS part coverage tool.

Labor Times

Description	Operation No.	Time
2017-2020 F-Super Duty 6.7L: Retrieve DTCs, Inspect Harness And Module For Moisture/Corrosion, And Replace The NOx Sensor Module And Harness (Do Not Use With Any Other Labor Operations)	202067A	1.5 Hrs.

Repair/Claim Coding

Causal Part:	14406
Condition Code:	49

Service Procedure

- Disconnect the affected NOx sensor module and inspect for moisture or corrosion on the pins of the harness and module. Are there any signs of moisture or corrosion present? (Figures 1-2)
 - Yes - replace the NOx sensor module. Refer to Workshop Manual (WSM), Section 303-14. Proceed to Step 2.
 - No - this article does not apply. Refer to the Powertrain Controls and Emissions Diagnosis (PC/ED) Manual for normal diagnostics.

Figure 1



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Figure 2



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- Replace the 14406 wire harness assembly. Refer to Wiring Diagram, Cell 152, component location charts.
 - To assist in the removal of the existing harness and installation of the replacement harness, mark the location of the plastic channel that goes around the third body mount from the front of the vehicle, then remove the harness. This will allow the harness to be routed from behind the second body mount from the front of the vehicle. (Figure 3)
 - Install the 4 securing straps around the body mount as shown in Figure 3.

Figure 3



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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.