

6.7L - ILLUMINATED MALFUNCTION INDICATOR LAMP (MIL) WITH DIAGNOSTIC TROUBLE CODE (DTC) P20E8 - BUILT ON OR BEFORE 12- MAY-2017	TSB 17-0057
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FORD:

2017 F-Super Duty

This article supersedes TSB **17-0020** to update the vehicle line application, Service Procedure and Part List.

ISSUE

Some 2017 F-Super Duty vehicles built on or before 12-May-2017 and equipped with a 6.7L engine may exhibit an illuminated MIL with diagnostic trouble code (DTC) P20E8 in the powertrain control module (PCM) memory. This may be due to air trapped in the reductant lines causing the reductant pump and heater assembly to not build sufficient system pressure.

ACTION

Follow the Service Procedure steps to correct the condition.

SERVICE PROCEDURE

1. Connect the Ford Integrated Diagnostic System (IDS) service tool or equivalent scan tool to the data link connector (DLC). Check for DTCs. Is P20E8 the only DTC stored in the PCM memory?
 - a. Yes - proceed to Step 2.
 - b. No - this article does not apply. Refer to the Powertrain Control/Emissions Diagnosis (PC/ED) manual for normal diagnostics.
2. Reprogram the PCM to the latest calibration using IDS release 106.01 or higher. Make sure you are connected to the internet when entering module programming to obtain the latest updates. Calibration files may also be obtained at www.motorcraftservice.com.

NOTE: ADVISE THE CUSTOMER THAT 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 RE-LEARNING PROCESS. THIS RE-LEARNING PROCESS MAY RESULT IN FIRMER THAN NORMAL UPSHIFTS AND DOWNSHIFTS FOR SEVERAL DAYS.

3. Check the vehicle build date. Was the vehicle built on or before 20-Dec-2016?
 - a. Yes - proceed to Step 4.
 - b. No - repair is complete.
4. Replace the reductant pump and heater assembly. Refer to Workshop Manual (WSM), Section 303-08.
5. Clear all DTCs.
6. Prime the new reductant pump and heater as follows:
 - a. Disconnect the reductant pressure line from the reductant injector and place the line in a clean suitable container. Refer to WSM, Section 303-08.
 - b. Using IDS, perform the selective catalytic reduction (SCR) visual leak check by selecting Toolbox > Powertrain > Service Functions > SCR system > SCR visual leak check. Run the test for two minutes.
 - c. Connect the reductant pressure line to the reductant injector. Refer to WSM, Section 303-08.
 - d. Perform SCR visual leak check to verify no leaks are present.

NOTE: The information contained 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, Lincoln, or Mercury 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.

PART NUMBER	PART NAME
HC3Z-5J229-B	Reductant Pump and Heater Assembly - (1 Req)
W717497-S439	Tank Strap J-Nut - Inboard Frame Mounted Tank Configuration Only - (2 Req)
W520804-S439	Tank Strap J-Nut - Inboard Frame Mounted Tank Configuration Only - (1 Req)
PM-27-JUG	Motorcraft® Diesel Exhaust Fluid (DEF) 2.5 Gallon Container - (2 Req)

OPERATION	DESCRIPTION	TIME
170057A	2017 F-Super Duty 250-450 Pickup 6.7L: Retrieve DTCs, Reprogram The PCM (Do Not Use With Any Other Labor Operations)	0.5 Hr.
170057B	2017 F-Super Duty 250-450 Pickup 6.7L: Retrieve DTCs, Reprogram The PCM, Replace And Prime The Reductant Pump And Heater (Do Not Use With Any Other Labor Operations)	1.8 Hrs.
MT170057	2017 F-Super Duty 350-550 Chassis Cab 6.7L: Retrieve DTCs, Replace And Prime The Reductant Pump And Heater	Actual Time

WARRANTY STATUS:

Eligible Under Provisions Of New Vehicle Limited Warranty Coverage And Emissions Warranty Coverage
Warranty/ESP coverage limits/policies/prior approvals are not altered by a TSB. Warranty/ESP coverage limits are determined by the identified causal part and verified using the OASIS part coverage tool.

DEALER CODING

BASIC PART NO.	CONDITION CODE
5J229	42