

FORD:

2011-2015 F-Super Duty

This article supersedes TSB **15-0029** to update the production fix date and the Service Procedure.

ISSUE

Some 2011-2015 F-Super Duty vehicles equipped with a 6.7L diesel engine and built on or before 1/30/2015 may exhibit an illuminated malfunction indicator lamp (MIL) with one or more of the following diagnostic trouble codes (DTCs) stored in the powertrain control module (PCM) memory: P0544, P0545, P0546, P06EA, P06EB, P2031, P2032, P2033, P200C, P200E, P2080, P2081, P2084, P2085, P242A, P242B, P242C, P242D, P242E, P246E, P246F, P2470, P2471, P2472, P2478, P2479, P247A, and/or P247B.

ACTION

Follow the Service Procedure steps to correct the condition.

SERVICE PROCEDURE

1. Is DTC P0544, P0545, P0546, P06EA, P06EB, P2031, P2032, P2033, P200C, P200E, P2080, P2081, P2084, P2085, P242A, P242B, P242C, P242D, P242E, P246E, P246F, P2470, P2471, P2472, P2478, P2479, P247A and/or P247B present?
 - a. No - this article does not apply. Refer to the Powertrain Control/Emissions Diagnosis (PC/ED) manual for normal diagnostics.
 - b. Yes - proceed to Step 2.
2. Based on the DTCs retrieved in Step 1, replace the corresponding EGT sensor(s) as instructed below. Refer to the Workshop Manual (WSM), Section 303-14, Engine Control Components for EGT sensor locations and replacement procedure.
 - DTCs P0544, P0545, P0546, P2080, P2081, P2478 replace EGT11.
 - DTCs P2031, P2032, P2033, P2084, P2085, P2479 replace EGT12.
 - DTCs P242A, P242B, P242C, P242D, P242E, P247A replace EGT13.
 - DTCs P246E, P246F, P2470, P2471, P2472, P247B replace EGT14.
 - DTCs P06EA, P06EB, P200C and/or P200E, proceed to Step 3.
3. Is DTC P200C and/or P200E stored in PCM memory with no other EGT DTCs present?
 - a. No - proceed to Step 5.
 - b. Yes - proceed to Step 4.
4. Use Integrated Diagnostic Service (IDS) freeze frame data readings to confirm when DTC P200C and/or P200E were set. Replace the corresponding EGT sensor as instructed below. Refer to the WSM, Section 303-14 Engine Control Components for EGT sensor locations and replacement procedure.
 - If EGT12 temperature is 650 °C (1292 °F) greater than EGT11 temperature replace EGT 12.
 - If EGT13 temperature is above 900 °C (1742 °F) replace EGT 13.
 - If IDS freeze frame data shows EGT13 temperature is 650 °C (1292 °F) greater than EGT12 temperature replace EGT 13.
 - If EGT14 temperature is above 900 °C (1742 °F) replace EGT 14.
 - If IDS freeze frame data shows EGT14 temperature is 650 °C (1292 °F) greater than EGT13 temperature replace EGT 14.

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.

- If two or more EGT sensors are reading 900 °C (1562 °F) or higher, or if the freeze frame temperature data does not fit the criteria listed in Step 3, this article does not apply. Refer to PC/ED manual pinpoint test RC to diagnose the concern.
5. Based on the DTCs retrieved in Step 1, replace the corresponding EGT sensor(s) as instructed below. Refer to the WSM, Section 303-14, Engine Control Components for EGT sensor locations and replacement procedure.
 - DTC P06EA on 2011-2012 pickups replace EGT14 and on 2011-2012 chassis cabs replace EGT13.
 - DTC P06EA on all 2013-2015 F-Super Duty models replace EGT12.
 - DTC P06EB replace EGT14.
 6. Is the vehicle a 2014-2015 pickup (Chassis-Cert) model and built on 11/7/2013 and through 12/10/2014?
 - a. No - repair is complete.
 - b. Yes - Reprogram the PCM to the latest calibration using IDS release 94.04 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. Clear all DTCs.

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.

PART NUMBER	PART NAME
AC3Z-5J213-C	EGT Sensor

OPERATION	DESCRIPTION	TIME
150054A	2011-2015 F-Super Duty 6.7L: Diagnose And Replace One (1) EGT Sensor (Can Be Claimed With Operation E, F, G And/ Or H) (Do Not Use With Any Other Labor Operations Outside Of This Article)	0.5 Hr.
150054B	2011-2015 F-Super Duty 6.7L: Diagnose And Replace Two (2) EGT Sensors (Can Be Claimed With Operation E, F, G And/Or H) (Do Not Use With Any Other Labor Operations Outside Of This Article)	0.6 Hr.
150054C	2011-2015 F-Super Duty 6.7L: Diagnose And Replace Three (3) EGT Sensors (Can Be Claimed With Operation E, F, G And/Or H) (Do Not Use With Any Other Labor Operations Outside Of This Article)	0.8 Hr.
150054D	2011-2015 F-Super Duty 6.7L: Diagnose And Replace Four (4) EGT Sensors (Can Be Claimed With Operation E, F, G And/Or H) (Do Not Use With Any Other Labor Operations Outside Of This Article)	0.9 Hr.
150054E	2014 F-Super Duty Pick Up 6.7L: Reprogram PCM/TCM Includes Time To Connect Battery Charger (Do Not Use With Any Other Labor Operations Outside Of This Article)	0.5 Hr.
150054F	2015 F-Super Duty Pick Up 6.7L: Reprogram PCM Includes Time To Connect Battery Charger (Do Not Use With Any Other Labor Operations Outside Of This Article)	0.3 Hr.
150054G	2011-2015 F-Super Duty 6.7L: If Required, Additional Time To Remove And Install Fuel Shield To Access Lifting Points (Can Be Claimed With Operation A-D) (Do Not Use With Any Other Labor Operations Outside Of This Article)	0.1 Hr.
150054H	2011-2015 F-Super Duty (FX4 Model) 6.7L: If Required, Additional Time To Remove And Install Fuel Shield To Access Lifting Points (Do Not Use With Any Other Labor Operations Outside Of This Article)	0.3 Hr.

TSB 15-0054 (Continued)

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
5J213	42