



TECHNICAL SERVICE BULLETIN

Illuminated MIL With DTC P203B - Urea Sensor Reprogramming

Tool- Built On Or Before 04-Aug-2017

**20-
2270**
17 August
2020

This bulletin supersedes 17-0067 . Reason for update: New Part/Procedure For Same Condition

Model:

Ford 2017 F-Super Duty	Engine: 6.7L
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Summary

This article supersedes TSB 17-0067 to update the Service Procedure and Parts List.

Issue: Some 2017 F-Super Duty vehicles equipped with a 6.7L diesel engine built on or before 04-Aug-2017 may exhibit an illuminated malfunction indicator lamp (MIL) with diagnostic trouble code (DTC) P203B. This may be due to a low voltage condition during engine cranking. To correct the condition, reflash the diesel exhaust fluid (DEF) reductant level sensor/quality module using the Urea Sensor Reprogramming tool.

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

- 2017 F-Super Duty
- 6.7L diesel
- Built on or before 04-Aug-2017
- Illuminated MIL with DTC P203B

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 F-Super Duty 6.7L: Retrieve DTCs And Reprogram The Urea Sensor (Do Not Use With Any Other Labor Operations)	202270A	0.4 Hrs.

Repair/Claim Coding

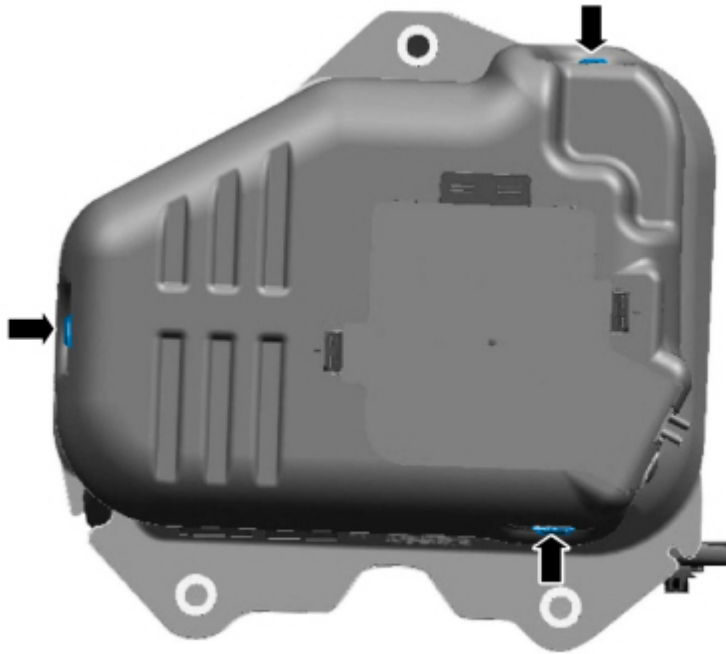
Causal Part:	5J250
Condition Code:	04

Service Procedure

1. Turn the ignition to the OFF position.
2. Locate the reductant tank.

3. For pickup vehicles, remove the 3 pushpins securing the tank shield around the perimeter of the tank. It is not necessary to remove the 4th pushpin on the access panel or the DEF line. The tank shield will lower enough to gain access to the reductant quality / level sensor. (Figure 1)

Figure 1 - Arrows indicate pushpin locations



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4. For chassis cab vehicles, remove the pushpin and pinch the tabs to open the access cover in the reductant tank cover to access the reductant level sensor/quality module. (Figure 2)

Figure 2 - Arrow indicates pushpin location, circles are the pinch tab locations

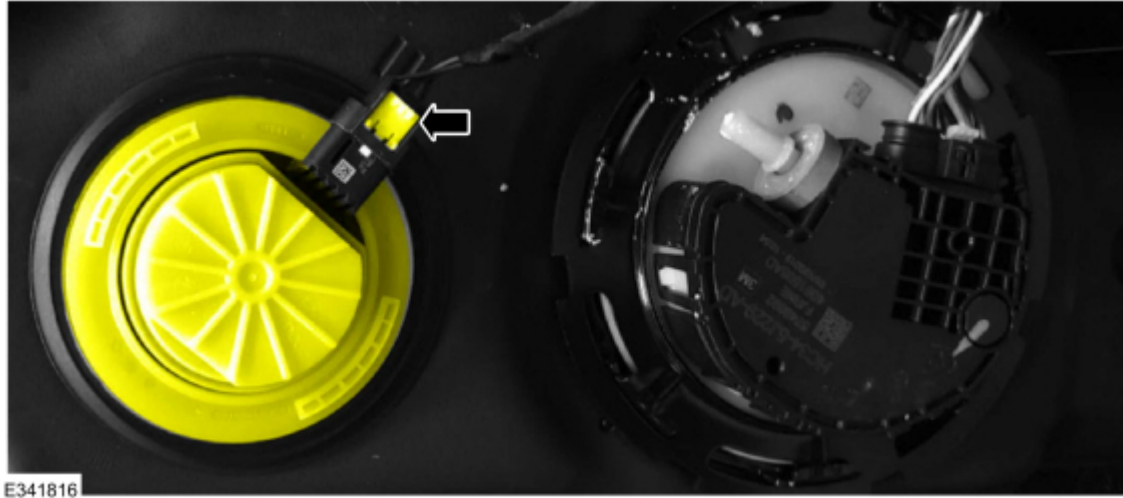


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5. Locate the reductant level sensor/quality module. Carefully unlatch the white secondary lock, press the tab and disconnect the electrical connector from the reductant level sensor/quality module.

NOTE: Use of a metal pick tool can allow for access to unlatch the white secondary lock and then press the tab by hand. (Figure 3)

Figure 3 - Chassis cab shown, pickup similar - reductant level sensor/quality module highlighted with arrow pointing to white secondary lock tab



6. Is part number GC4A-5J242-AD printed on the component side of the reductant level sensor/quality module connector?

(1). Yes - proceed to Step 7.

(2). No - this article does not apply. Refer to the Powertrain Control and Emissions Diagnosis (PC/ED) manual for additional diagnostics.

7. Connect the Urea Sensor Reprogramming tool (Rotunda tool number 418-665) into the reductant level sensor/quality module on the reductant tank.

NOTE: When using the Urea Sensor Reprogramming tool for the first time, remove the plastic tab from the battery compartment to power the tool. (Figures 4-5)

Figure 4 - Urea Sensor Reprogramming tool connector that goes to reductant level sensor/quality module



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Figure 5 - Urea Sensor Reprogramming tool connected to reductant level sensor/quality module



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8. Once the Urea Sensor Reprogramming tool is connected, move the toggle switch to the ON position. The top green LED light will illuminate and the software reprogramming process for the reductant level sensor/quality module will begin automatically. (Figure 6)

Figure 6 - Arrow indicates top green LED



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9. Allow up to 60 seconds for the tool to complete reprogramming the reductant level sensor/quality module.
10. Does the bottom LED on the Urea Sensor Reprogramming tool illuminate green? (Figure 7)
 - (1). Yes - the reductant level sensor/quality module has been successfully reflashed. Disconnect the Urea Sensor Reprogramming tool and reconnect the reductant level sensor/quality module wire harness. Install the reductant tank cover or reductant tank access cover onto the reductant tank. Repair is complete.
 - (2). No - proceed to Step 11.

Figure 7 - Arrow indicates bottom LED



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11. Is the bottom LED illuminated red?

(1). Yes – make sure the Urea Sensor Reprogramming tool is securely connected to the urea sensor and turn the reprogramming tool off then turn it back on to restart the reprogramming process. Allow up to 60 seconds for the tool to complete reprogramming the reductant level sensor/quality module. Return to step 10.

(2). No – proceed to step 12.

12. Are both the red and green LEDs flashing?

(1). Yes – replace the 9 volt battery in the Urea Sensor Reprogramming tool. Make sure the Urea Sensor Reprogramming tool is securely connected to the urea sensor and turn the reprogramming tool off then turn it back on to restart the reprogramming process. Allow up to 60 seconds for the tool to complete reprogramming the reductant level sensor/quality module. Return to Step 10.

(2). No – the reductant level sensor/quality module has been successfully reflashed. Disconnect the Urea Sensor Reprogramming tool and reconnect the reductant level sensor/quality module wire harness. Install the stone shield on the tank assembly using the 3 pushpins. Repair is complete.

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.