

**TECHNICAL SERVICE BULLETIN****6.7L - Illuminated MIL - DTCs P203B, P206B And/Or P2201:92 - Built On Or Before 22-Jul-2024****24-2256**21 August
2024**Model:**

Ford 2023-2024 F-Super Duty	Engine: 6.7L Diesel Built on or before 22-Jul-2024
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Markets: North America market only

Issue: Some 2023-2024 F-Super Duty vehicles built on or before 22-Jul-2024 and equipped with a 6.7L engine may exhibit an illuminated MIL with DTCs P203B, P206B, and/or P2201:92 stored in the PCM. This may be due to the software in the PCM. To correct the condition, follow the Service Procedure to reprogram the PCM using the latest software level of the FDRS scan tool.

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

- 2023-2024 F-Super Duty built on or before 22-Jul-2024
- 6.7L diesel engine
- Illuminated MIL with DTCs P203B, P206B, and/or P2201:92 stored in the PCM

Parts

Service Part Number	Claim Quantity	Package Order Quantity	Number in Package	Description
BAGM-65-A	If Necessary (Up To 1)	If Necessary (Up To 1)	1	Battery (750 Amp) - Refer To The Parts Catalog For The VIN Specific Application
BXT-65-750	If Necessary (Up To 1)	If Necessary (Up To 1)	1	Battery (750 Amp) - Refer To The Parts Catalog For The VIN Specific Application

Claim Quantity refers to the total number of individual pieces required to repair the vehicle.

Package Order Quantity refers to the amount of the service part number package(s) required to repair the vehicle.

Number In Package refers to the number of individual pieces included in a service part number package.

Only If Necessary indicates the part is not mandatory.

Warranty Status: Eligible under provisions of New Vehicle Limited Warranty (NVLW)/Emissions Warranty/Service Part Warranty (SPW)/Service Part New Vehicle (SPNV)/Extended Service Plan (ESP) coverage. Limits/policies/prior approvals are not altered by a TSB. NVLW/Emissions Warranty/SPW/SPNV/ESP coverage limits are determined by the identified causal part and verified using the OASIS part coverage tool.

Labor Times

Description	Operation No.	Time
2023-2024 F-Super Duty 6.7L: Retrieve DTCs And Reprogram The Appropriate Modules As Required By The Software Update And Service Procedure (Do Not Use With Any Other Labor Operations)	MT242256	Actual Time

Repair/Claim Coding

Causal Part:	RECALEM
Condition Code:	04

Service Procedure

NOTE: The time required to complete this procedure varies depending on several factors including the number of module software updates required, available internet bandwidth, USB flash drive variability, and the potential that CAN flashing (software update via the DLC with FDRS) may be required. Connect to the internet with an ethernet cable, use a USB 3.2 Gen 2 or higher flash drive. When performing USB software updates, using high speed USB ports on the laptop is recommended for faster file transfer.

1. Start an FDRS session and navigate to Toolbox tab > Datalogger > BCM and select the BATT_SOC PID. Verify the PID reads 50% or higher.

NOTE: Connecting the battery charger negative clamp directly to the battery negative terminal might result in the SOC PID not immediately reflecting the improvement from charging.

- (1). If SOC is less than 50%, charge the battery by attaching the battery charger's negative clamp to the engine or chassis ground and not the negative battery terminal. Refer to WSM, Section 414-01.
- (2). If the battery is unable to achieve a 50% SOC, use the Rotunda GRX-3590 or DCA-8000 testers to verify if replacement is required.
 - If the battery does not need to be replaced, disconnect the Rotunda charger and perform a BMS reset using the FDRS scan tool.
 - If the battery is replaced, fully charge the new battery, disconnect the Rotunda charger and perform a BMS reset using the FDRS scan tool.
2. Reconnect the battery charger and set it to maintain a vehicle voltage of 12.6-13.6 volts. A low battery SOC while performing a software update to any module may result in a repeat Restart Required message in the vehicle's center display screen or a message on the FDRS saying **Part Number Validation Failed** or **DID Validation Failed**.
3. Is there a software update available for any of the following modules?
 - GWM
 - APIM
 - TCU
 - PCM
 - TCM
 - SOBDMC
 - BCM
 - IPC
 - (1). Yes - proceed to Step 4.
 - (2). No - this article does not apply.
4. Prepare to update the software for the GWM, APIM, and TCU.
 - (1). A 32GB or larger USB flash drive is required for APIM, TCU, and GWM software updates. USB 3.2 Gen 2 or higher is recommended for faster file transfer on both the computer port and the USB drive.
 - (2). Make sure the USB flash drive being used is formatted correctly. To see the available drives, hold down the Windows icon keyboard key and press the E keyboard key. Right click on the USB flash drive and select Properties. If File System under the General tab is not exFAT, the drive must be formatted.
 - (3). To format the USB flash drive:
 - Right click on the USB flash drive.
 - Select Format, select exFAT for the File System.
 - Select Default Allocation Size for the Allocation Unit Size.
 - (4). De-selecting Quick Format is not necessary and results in a lengthier operation.
5. Using the FDRS, begin module programming by selecting the SW Updates tab. Follow all on-screen instructions carefully.
6. When prompted, connect the USB flash drive to the FDRS.
7. When prompted by the FDRS, safely remove/eject the USB flash drive from the FDRS. Start the vehicle KOER then connect the USB flash drive to the USB media hub to install the software into the module. When the USB

software update begins, the center display screen displays a message stating "**Do Not Remove USB**". The update may take 10 minutes or longer to complete.

NOTE: It may take up to 5 minutes for the vehicle to recognize the USB flash drive with software update.

8. When the vehicle's center display screen prompts to restart the vehicle:

- (1). Turn the vehicle OFF.
- (2). Wait 10 minutes.
- (3). Restart the vehicle KOER. The update is still in process at this time.

9. Follow FDRS on-screen prompts to complete the update.

NOTE: It may take up to 5 minutes before "Update Successful" appears in the vehicle's center display screen. After 5 minutes if "Update Successful" pop-up is not shown on the center display screen, remove the USB flash drive and select YES on the FDRS prompt stating "Was The USB Update Successful" (FDRS verifies if the module software update was successfully installed on the module).

10. Perform the software update for the GWM. Follow all update screens. If there is no GWM software update available, proceed to Step 14.

- (1). Follow the center display screen prompts.
- (2). Follow FDRS prompts to complete the GWM programming.
 - Once the pop up stating "Update Successful" appears in the center display screen, select Close, remove the USB flash drive from the USB media hub, and select Yes on FDRS indicating the update installed successfully. This initiates the remaining automated configuration steps and reports the module software part numbers and application software levels to the Ford online database. Failure to follow this step results in an inaccurate database as well as omitted, improperly installed, or improperly configured applications (features) such as navigation (if equipped). It is normal for the module to reset during this step.
- (3). Perform a network test using the FDRS scan tool.
- (4). Proceed to Step 11.

11. Perform the software update for the APIM. Follow all update screens. If there is no APIM software update available, proceed to Step 15.

- (1). Follow the center display screen prompts.
- (2). Follow FDRS prompts to complete the APIM programming.
 - Once the pop up stating "Update Successful" appears in the center display screen, select Close, remove the USB flash drive from the USB media hub, and select Yes on FDRS indicating the update installed successfully. This initiates the remaining automated configuration steps and reports the module software part numbers and application software levels to the Ford online database. Failure to follow this step results in an inaccurate database as well as omitted, improperly installed, or improperly configured applications (features) such as navigation (if equipped). It is normal for the module to reset during this step.
- (3). Perform a network test using the FDRS scan tool.
- (4). Proceed to Step 12.

12. Perform the software update for the TCU. Follow all update screens. If there is no TCU software update available, proceed to Step 16.

- (1). Follow the center display screen prompts.
- (2). Follow FDRS prompts to complete the TCU programming.
 - Once the pop up stating "Update Successful" appears in the center display screen, select Close, remove the USB flash drive from the USB media hub, and select Yes on FDRS indicating the update installed successfully. This initiates the remaining automated configuration steps and reports the module software part numbers and application software levels to the Ford online database. Failure to follow this step results in an inaccurate database as well as omitted, improperly installed, or improperly configured applications (features) such as navigation (if equipped). It is normal for the module to reset during this step.
- (3). Perform a network test using the FDRS scan tool.
- (4). Proceed to Step 13.

13. Perform a network test using the FDRS scan tool.

14. Are there any updates still available for the GWM, APIM, and/or TCU?

- (1). Yes - return to Step 4.
 - (2). No - proceed to Step 15.
- 15.** Is there a PCM update available?
- (1). Yes - perform the software update.
 - (2). No - this article does not apply. Refer to WSM, Section 303-08 for normal diagnostics.
- 16.** Is there a TCM update available?
- (1). Yes - perform the software update.
 - (2). No - proceed to Step 17.
- 17.** Is there a SOBDMC update?
- (1). Yes - perform the software update.
 - (2). No - proceed to Step 18.
- 18.** Is there a BCM update?
- (1). Yes - perform the software update.
 - (2). No - proceed to Step 19.
- 19.** Is there an IPC update?
- (1). Yes - perform the software update.
 - (2). No - proceed to Step 20.
- 20.** For P203B or P206B, drive the vehicle at least one mile, then allow the vehicle to idle in park (P) for at least 15 minutes. If the DTC returns, refer to WSM, Section 303-08 for normal diagnostics.
- 21.** For P2201:92, drive the vehicle until PID EGT12 is at least 245°C (473°F) for pickup vehicles or PID EGT13 is 267°C (512°F) for chassis cab vehicles. Allow the vehicle to idle in drive (D) with the vehicle stopped for 30 seconds. If the DTC returns, refer to WSM, Section 303-08 for normal diagnostics.

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 relearning process. This relearning process may result in firmer than normal upshifts and downshifts for several days.

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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.