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TECHNICAL SERVICE BULLETIN

Intermittent No Start And Stop Safely Now Message Displayed And DTCs U0293 And/Or P1A43 In The Battery Energy Control Module (BECM)

24-2061

06 March
2024

This bulletin supersedes 24-2008. Reason for update: remove the production fix date

Model:

Ford 2023 F-150	FHEV
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Markets: Published by Ford North America

Issue: Some 2023 F-150 fully hybrid electric vehicles (FHEVs) may exhibit an intermittent no start and **Stop Safely Now** message displayed in the IPC and DTC U0293 and/or P1A43 in the BECM or in connected vehicle data. A GWM software concern may be triggering the no start condition. To correct the condition, follow the Service Procedure to reprogram the GWM software.

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

- 2023 F-150
- Equipped with a hybrid engine
- Intermittent no start and/or **Stop Safely Now** message displayed in the IPC
- DTC U0293 and/or P1A43 stored in the BECM or in connected vehicle data

Parts - Parts To Replace Only If Necessary

Service Part Number	Claim Quantity	Package Order Quantity	Description
BAGM-48H6-760	If Needed	If Needed	Battery (760 Amp) - Refer To The Parts Catalog For The VIN Specific Application
BAGM-94RH7-800	If Needed	If Needed	Battery (800 Amp) - Refer To The Parts Catalog For The VIN Specific Application

If Needed indicates the part is not mandatory.

Warranty Status: Eligible under provisions of New Vehicle Limited Warranty (NVLW)/Service Part Warranty (SPW)/Special Service Part (SSP)/Extended Service Plan (ESP) coverage. Limits/policies/prior approvals are not altered by a TSB. NVLW/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
2023 F-150 Hybrid: Reprogram The Appropriate Modules As Required By The Software Update And Service Procedure (Do Not Use With Any Other Labor Operations)	MT242061	Actual Time

Repair/Claim Coding

Causal Part:	14G490
Condition Code:	04

Service Procedure

NOTE: Ask the customer to bring their spare key fob to assist in the FDRS programming. The time required to complete this procedure will vary 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. It is recommended to connect to the internet with an ethernet cable and use a USB 3.0/3.1 capable flash drive when performing software updates.

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

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. It is not necessary to perform a BMS reset unless the battery is replaced.

- (1). If the battery is unable to achieve a 50% SOC then a new battery may be required. Use the Rotunda GRX-3590 or DCA-8000 testers to verify if replacement is required. If the battery is replaced, fully charge the new battery. Then 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 center screen or a message on the FDRS saying **Part Number Validation Failed** or **DID Validation Failed**.
3. Are there any software updates available for the GWM, APIM, or TCU?
 - (1). Yes - proceed to Step 4.
 - (2). No - this article does not apply. Refer to WSM, Section 415-00.
4. Perform the Module Software Updating Procedures outlined below for the GWM, APIM, and TCU. Perform a network test after each software update using the latest software level of the FDRS scan tool. This will refresh the list of modules that have available software updates based current module software levels. Continue performing software updates until all available software updates for those modules are complete. If any error conditions are experienced during programming, refer to WSM, Section 418-01A > General Procedures > Module Programming for the Error Condition Table.

Module Software Updating Procedure

NOTE: Depending on the current software level of the modules, all the following updates may not be required.

The following instructions apply when performing a software update on any of the following modules:

- GWM
- APIM
- TCU

NOTE: If the next update is not showing available, perform a network test and recheck availability.

NOTE: A 32GB or larger USB flash drive is required for the GWM, TCU and APIM software updates. USB 3.0 or higher is recommended for faster file transfer.

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.

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

De-selecting Quick Format is not necessary and will result in a lengthier operation.

1. Using the FDRS, begin module programming by selecting the SW Updates tab. Follow all on-screen instructions carefully. Perform the next available update.

2. When prompted, connect the USB flash drive to the FDRS.
3. When prompted by the FDRS, safely remove/eject the USB flash drive from the FDRS and connect it 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.

4. When the pop-up stating **Restart Required** appears on the center display screen:

- (1). Turn the ignition off.
- (2). Wait for 10 minutes.
- (3). Restart the vehicle (key-on vehicle running/ready). The update is still in progress at this time.

NOTE: It may take up to 5 minutes before the center display screen displays Update Successful pop up. After 5 minutes if Update Successful pop up is not shown on the center display screen, remove the USB and select yes on the FDRS Was the USB Update Successful prompt (FDRS verifies if the module software update was successfully installed on the module).

5. 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.

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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.