



TECHNICAL SERVICE BULLETIN

High Voltage Battery Stops Charging With Illuminated MIL And DTC P2C94 Stored In The SOBDM

23-2399

04 December
2023

Model:

Ford
2021-2023 Mustang Mach-E

Issue: Some 2021-2023 Mustang Mach-E vehicles may exhibit a condition where the high voltage battery stops charging when connected to level 1 or level 2 chargers with an illuminated malfunction indicator lamp (MIL) and diagnostic trouble code (DTC) P2C94 stored in the secondary on-board diagnostic control module A (SOBDM). This may be due to the software in the SOBDM. To correct this condition, follow the Service Procedure to reprogram the powertrain control module (PCM).

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

- 2021-2023 Mustang Mach-E vehicles
- Illuminated malfunction indicator lamp (MIL) and diagnostic trouble code (DTC) P2C94 stored in the SOBDM

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
2021-2023 Mustang Mach-E: Reprogram The Appropriate Modules As Required By The Software Update And Service Procedure (Do Not Use With Any Other Labor Operations)	MT232399	Actual Time

Repair/Claim Coding

Causal Part:	RECAL
Condition Code:	04

Service Procedure

1. Connect a battery charger to the 12-volt battery.

NOTE: To prevent the battery saver mode from activating on the vehicle, make sure the negative cable of the charger is installed on a chassis or engine ground, and not the 12-volt battery negative terminal. Do not have the vehicle plugged into the high voltage battery charger during programming. This can cause incorrect module programming. Make sure only the 12-volt battery charger is installed.

2. Reprogram the PCM using the latest software level of the Ford Diagnosis and Repair System (FDRS) scan tool.

3. Check the availability of software updates on the following modules and update as required:

- Secondary on-board diagnostic control module (SOBDM).
- Battery energy control module (BECM).
- Secondary on-board diagnostic control module B (SOBDMB).
- Secondary on-board diagnostic control module C (SOBDMC).
- Anti-lock brake system (ABS) module.

NOTE: Only one module may be updated at a time.

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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.