

**TECHNICAL SERVICE BULLETIN****Illuminated Powertrain Malfunction (Wrench) Indicator And/Or "Stop Safely Now" Message With Various DTCs****25-2247**

06 June 2025

This bulletin supersedes 24-2163. Reason for update: update the Service Procedure and change labor operation from actual to fixed time.

Model:

Ford 2021-2022 Mustang Mach-E	Built On Or Before 28-May-2022
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Markets: North American markets only

Issue: Some of the vehicles listed in the Model statement above may exhibit an illuminated powertrain malfunction (wrench) indicator and/or "Stop Safely Now" message in the IPC with DTCs P0563, P0ADA, P0ADE, P0AA1, P0AA4, P0AA5, P0AA2, P0D10, P0D0F and/or P0C78 stored in the BECM. The vehicle may also exhibit a low/discharged 12v battery. This may be due to the high voltage battery junction box.

Action: For vehicles that meet all of the criteria in the Issue and Model statements, follow the Service Procedure to replace the high voltage battery junction box and reprogram the BECM.

Parts

Service Part Number	Claim Quantity	Package Order Quantity	Number in Package	Description
LK9Z-10C666-C	1	1	1	High Voltage Battery Junction Box (GT)
NK4Z-10C666-E	1	1	1	High Voltage Battery Junction Box (RWD Base)
NK4Z-10C666-E	1	1	1	High Voltage Battery Junction Box (AWD Base)
W717859-S439	2	1	4	Battery Mounting Bracket Bolts
VC-13-G	As Needed	As Needed		Motorcraft® Yellow Concentrated Antifreeze/Coolant
CVC-13-G	As Needed	As Needed		Motorcraft® Yellow Concentrated Antifreeze/Coolant(Canada Only)

Parts - Parts To Inspect And Replace Only If Necessary

Service Part Number	Claim Quantity	Package Order Quantity	Number in Package	Description
LJ9Z-10A687-A	Only If Necessary	Only If Necessary	1	High Voltage Battery Cover Seal

Service part numbers and "number in package" quantity may change after publication, thus also affecting the "package order quantity". Refer to the parts catalog for the latest information.

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.

As Needed indicates the part is necessary but amount of the part may vary and/or is not a whole number. Parts can be billed out as non-whole numbers, including less than 1.

Only If Necessary indicates the part is not mandatory. Refer to the Service Procedure to determine the inspection/inclusion criteria.

Warranty Status: Eligible under provisions of New Vehicle Limited Warranty (NVLW)/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/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
2021-2022 Mustang Mach-E: Retrieve DTCs And Vehicle Build Date, Replace The High Voltage Battery Junction Box (Do Not Use With Any Operations Outside Of This Article)	252247A	5.7 Hrs.
2021-2022 Mustang Mach-E: Reprogram The Appropriate Modules As Required By The Software Update And Service Procedure, Includes Time To Download And Run The BECM Reset DTC Occurrence Counter Application If Required (Can Be Claimed With Operation A)	AP252247B	Actual Time Up To 0.7 Hrs

Repair/Claim Coding

Causal Part:	10C666
Condition Code:	42

Service Procedure

NOTE: If the [FSA 23S56](#) is active for a specific [VIN](#), this article does not apply and the [FSA](#) must be performed.

NOTE: Review the vehicle warranty history. If the [FSA 23S56](#) was already performed or a high voltage battery junction box replacement occurred on or after 11-Nov-2023, this article does not apply and the high voltage battery junction box must be replaced. Refer to [WSM](#), Section 414-03A.

1. Replace the high voltage battery junction box. Refer to [WSM](#), Section 414-03A, Removal and installation.
2. Reprogram the [BECM](#) to latest software available. The [BECM](#) is part of the powertrain coordinated flash.
 - (1). Connect a battery charger to the 12-volt battery. If the 12-volt battery is discharged, charge the battery. Refer to [WSM](#), Section 414-01, Diagnosis and Testing.

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.

3. Reprogram the [PCM](#) using the latest software level of the [FDRS](#) scan tool. Follow all on-screen instructions carefully to complete all required coordinated module software update(s), including:
 - [SOBDM](#)
 - [BECM](#)
 - [SOBDMB](#)
 - [SOBDMC](#)
 - [ABS](#) module
4. Clear any stored [DTCs](#) related to this condition.
5. If [DTCs](#) P0ADA, P0ADE, P0AA1, and/or P0AA4 remain present, download and run the "BECM - Reset Diagnostic Trouble Code (DTC) Occurrence Counter" application in [FDRS](#).

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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.