



# TECHNICAL SERVICE BULLETIN

## 2.5L FHEV - Illuminated MIL With DTC P0402

**23-2059**

22 February  
2023

This bulletin supersedes 22-2493.

### Model:

<b>Ford</b> 2022 Maverick	Engine: 2.5L FHEV
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### Summary

This article supersedes TSB 22-2493 to update the Issue, Action, Service Procedure and Parts List.

**Issue:** Some 2022 Maverick vehicles equipped with a 2.5L full hybrid electric vehicle (FHEV) powertrain may exhibit an illuminated malfunction indicator lamp (MIL) with diagnostic trouble code (DTC) P0402 stored in the powertrain control module (PCM). This may be due to fault detection ratio threshold of the differential pressure feedback exhaust gas recirculation (EGR) sensor. To correct the condition, follow the Service Procedure to reprogram various modules starting with the PCM and diagnose the differential pressure feedback EGR sensor.

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

- 2022 Maverick
- 2.5L FHEV
- Illuminated MIL with DTC P0402 stored in the PCM

### Parts

#### Parts To Insepect And Replace Only If Necessary

Service Part Number	Quantity	Description	Unit of Issue	Piece Quantity
LX6Z-9J433-A	If Needed	Differential Pressure EGR Sensor	1	1

Quantity refers to the amount of the service part number required to repair the vehicle.

Unit of Issue refers to the number of individual pieces included in a service part number package.

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

If Needed indicates the part is not mandatory.

**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
2022 Maverick 2.5L FHEV: Reprogram The Appropriate Modules As Required By The Software Update And Service Procedure, Includes Time To Check And Clear DTCs, Road Test And Replace The Differential Pressure Feedback EGR Sensor If Required (Do Not Use With Any Other Labor Operations)	MT232059	Actual Time

### Repair/Claim Coding

Causal Part:	9J433
Condition Code:	42

## Service Procedure

1. Using the latest software level of the Ford Diagnosis and Repair System (FDRS) scan tool, check the PCM for software updates. Is there a software update available for the PCM?
  - (1). Yes - download and run the PCM – Powertrain Control Module (PCM) Software Update app. Proceed to Step 2.
  - (2). No - vehicle is at the latest software level. Proceed to Step 4.
2. Check the availability for software updates on the following modules and update as required:
  - Anti-lock brake system (ABS) module
  - Battery energy control module (BECM)
  - Secondary on-board diagnostic control module C (SOBDM-C)
3. Clear DTC P0402 from the PCM and perform a road test. Does the MIL and DTC P0402 return after performing the software updates and road test?
  - (1). Yes - proceed to Step 4.
  - (2). No - repair is complete.
4. Using FDRS scan tool monitor the differential pressure feedback EGR voltage (DPFE\_V) parameter identification (PID) with the ignition on and no vacuum applied. Is the voltage between 1.90 and 2.10 volts?
  - (1). Yes - perform normal Workshop Manual (WSM) diagnostics outside of this article. Refer to the WSM, Section 303-08A Engine Emission Control > Diagnosis and Testing.
  - (2). No - replace the differential pressure feedback EGR sensor and clear DTC P0402. Refer to the WSM, Section 303-08B Engine Emission Control > Removal and Installation.

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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.