



TECHNICAL SERVICE BULLETIN

2.7L EcoBoost - Illuminated Malfunction Indicator Lamp (MIL) With Diagnostic Trouble Code (DTC) P0456

24-2409

05 December
2024

This bulletin supersedes 24-2086. Reason for update: to update the Service Procedure.

Model:

Ford 2021-2023 Bronco	Engine: 2.7L EcoBoost
---------------------------------	-----------------------

Markets: North American market only

Issue: Some 2021-2023 Bronco vehicles equipped with a 2.7L EcoBoost engine may exhibit an illuminated MIL with DTC P0456 stored in the PCM. This may be due to the software level of the PCM and has no effect on vehicle operation. To correct this condition, perform the Service Procedure below to reprogram the PCM to the latest software level using the FDRS.

Action: Follow the Service Procedure to correct the condition if the vehicle meets all of the following criteria:

- 2021-2023 Bronco
- 2.7L EcoBoost engine
- Illuminated MIL with PCM P0456 stored in the PCM

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
2021-2023 Bronco 2.7L EcoBoost: Retrieve DTCs And Reprogram The PCM (Do Not Use With Any Other Labor Operations Outside Of This Article)	242409A	0.3 Hrs.
2021-2023 Bronco 2.7L EcoBoost: Additional Time To Perform The Evaporative Emission Leak Test (Can Be Claimed With Operation A)	MT242409	Actual Time

Repair/Claim Coding

Causal Part:	RECALEM
Condition Code:	04

Service Procedure

1. Connect a battery charger such as Rotunda GRX-3590 or DCA-8000 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 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 FDRS scan tool.

NOTE: Advise the customer 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.

3. Perform the evaporative emission system leak test. Refer to the WSM, Section 303-13B Evaporative Emissions > General Procedures > Evaporative Emission System Leak Test.

© 2024 Ford Motor Company

All rights reserved.

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.