

**23-2368**21 November
2023

TECHNICAL SERVICE BULLETIN

2.7/3.0L - Various Charging System Error Messages In IPC And/Or Illuminated Charging System Indicator With DTC B11DB

This bulletin supersedes 23-2196.

Model:

Ford 2021-2022 Bronco	Engine: 2.7L/3.0L EcoBoost
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Summary

This article supersedes TSB 23-2196 to update the Service Procedure.

Issue: Some 2021-2022 Bronco vehicles equipped with a 2.7L or 3.0L EcoBoost engine may exhibit various charging system error messages and/or illuminated charging system indicator displayed in the instrument panel cluster (IPC) with diagnostics trouble code (DTC) B11DB set within the body control module (BCM). This may be due to coolant contamination into the battery monitor sensor (BMS) and/or in line connector from a leaking transmission fluid heater coolant control valve. To correct the condition, follow the Service Procedure to clean the BMS connector and replace the transmission fluid heater coolant control valve.

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

- 2021-2022 Bronco
- 2.7/3.0L EcoBoost engine
- DTC B11DB stored in the BCM
- At least one of the following conditions:
 - Various charging system error messages displayed in the IPC
 - Illuminated charging system indicator

Parts

Service Part Number	Quantity	Description	Unit of Issue	Piece Quantity
NB3Z-18495-A	1	Transmission Fluid Heater Coolant Control Valve - 3.0L	1	1
MB3Z-18495-B	1	Transmission Fluid Heater Coolant Control Valve - 2.7L	1	1
XG-12	As Needed	Motorcraft® Electrical Grease	1	1
VC-13-G	As Needed	Motorcraft® Yellow Concentrated Antifreeze/Coolant (All Markets Except Canada)		
CVC-13-G	As Needed	Motorcraft® Yellow Concentrated Antifreeze/Coolant (Canada Only)		

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.

As Needed indicates the 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.

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
2021-2022 Bronco 2.7L/3.0L EcoBoost: Retrieve DTCs, Inspect The BMS Connector C1689 And Both Sides Of The In-Line Connector C110 For Coolant Contamination, No Coolant Present On Either C1689 Or C110 (Do Not Use With Any Other Labor Operations)	232368A	0.6 Hrs.
2021-2022 Bronco 2.7L/3.0L EcoBoost: Retrieve DTCs, Inspect The BMS Connector C1689 And Both Sides Of The In-Line Connector C110 For Coolant Contamination, Coolant Present Clean And Lubricate Electrical Connectors Includes Time To Replace The Fluid Heater Coolant Control Valve (Do Not Use With Any Other Labor Operations)	232368B	1.5 Hrs.

Repair/Claim Coding

Causal Part:	18495
Condition Code:	d4

Service Procedure

1. Remove the left front fender splash shield. Refer to the Workshop Manual (WSM), Section 501-02.
2. Inspect the component side of the BMS connector C1689 and both sides of the in-line connector C110 for coolant contamination. Is coolant present in either connector?
 - (1). Yes - proceed to Step 3.
 - (2). No - this article does not apply. Refer to the Workshop Manual (WSM), Section 414-00.
3. Clean the inside of connectors C1689 and C110 and apply dielectric grease.
4. Install the left front fender splash shield. Refer to the WSM, Section 501-02.
5. Replace the transmission fluid heater coolant control valve. Refer to WSM, Section 303-03B (2.7L) or Section 303-03C (3.0L).

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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

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