

**TECHNICAL SERVICE BULLETIN****2.7/3.0L - Various Charging System Error Messages In IPC And/Or Illuminated Charging System Indicator With DTC B11DB****23-2196**

19 June 2023

This bulletin supersedes 23-2135.

Model:

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

This article supersedes TSB 23-2135 to update the Part List.

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 diagnostic trouble code (DTC) B11DB set within the body control module (BCM). This may be due to coolant contamination into the battery monitor sensor (BMS) 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
- 2.7L or 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

Parts**Parts to Replace As Needed**

Service Part Number	Quantity	Description	Unit of Issue	Piece Quantity
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.

Labor Times

Description	Operation No.	Time
2021-2022 Bronco 2.7L/3.0L EcoBoost: Retrieve DTCs, Inspect Connector Clean And Lubricate Electrical Connector Includes Time To Replace The Fluid Heater Coolant Control Valve (Do Not Use With Any Other Labor Operations)	232196A	1.3 Hrs.

Repair/Claim Coding

Causal Part:	18495
Condition Code:	D4

Service Procedure

1. Inspect the component side of the BMS connector C1689 for coolant contamination. Is coolant present in this connector?
 - (1). Yes - proceed to Step 2.
 - (2). No - this article does not apply. Refer to the Workshop Manual (WSM), Section 414-00.
2. Clean the inside of connector C1689 and apply dielectric grease.
3. 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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