



## TECHNICAL SERVICE BULLETIN

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

**23-2135**

03 May 2023

**Model:**

<b>Ford</b> 2021-2022 Bronco	Engine: 2.7L/3.0L EcoBoost
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**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
- 2.7 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	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)		
XG-12	As Needed	Motorcraft® Electrical Grease		

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)	232135A	1.3 Hrs.

**Repair/Claim Coding**

Causal Part:	18495
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Condition Code:	D4
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## Service Procedure

1. Inspect the component side of the BMS connector C1689 for coolant contamination. Is coolant present?
  - (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 or Section 303-03C.

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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.