



TECHNICAL SERVICE BULLETIN

4WD Inoperative, Illuminated Powertrain Malfunction (Wrench) Indicator - Various 4WD DTCs

23-2182

21 June 2023

This bulletin supersedes 22-2447.

Model:

Ford 2021-2022 Bronco

Summary

This article supersedes TSB 22-2447 to update the TSB Issue and Service Procedure.

Issue: Some 2021-2022 Bronco vehicles may exhibit an illuminated powertrain malfunction (wrench) indicator with diagnostic trouble codes (DTCs) stored in the all-wheel drive (AWD) module. The setting of these DTCs result in an inoperative 4WD system that may be intermittent. These DTCs may be setting due to a low battery state of charge. To correct the condition, follow the Service Procedure to verify the battery condition and reprogram the AWD module.

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

- 2021-2022 Bronco
- Illuminated powertrain malfunction (wrench) indicator and various DTCs stored in the AWD module
- 4WD system inoperative

Parts - Parts To Replace Only If Necessary

Service Part Number	Claim Quantity	Package Order Quantity	Number in Package	Description
BAGM-94RH7-800	1	If Needed	1	Battery
BAGM-48H6-760	1	If Needed	1	Battery

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.

If Needed indicates the part is not mandatory.

Warranty Status: Eligible under provisions of New Vehicle Limited Warranty (NVLW)/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/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
2021-2022 Bronco: Check And Correct The Battery State Of Charge And Reprogram The AWD Module Following The Service Procedure (Do Not Use With Any Other Labor Operations)	232182A	0.4 Hrs.
2021-2022 Bronco: Check And Correct The Battery State Of Charge, Replace The Battery And Reprogram The AWD Module Following The Service Procedure (Do Not Use With Any Other Labor Operations)	232182B	0.6 Hrs.

Repair/Claim Coding

Causal Part:	7P238
Condition Code:	42

Service Procedure

1. Perform Pinpoint Test A in Workshop Manual (WSM), Section 414-01 > Diagnosis and Testing > Battery.
2. Reprogram the AWD module using the latest software level of the FDRS scan tool. If the concern is still present, follow normal diagnostics in the WSM, Section 307-07.
3. Clear the DTCs with Ford Diagnosis and Repair System (FDRS).

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