



## TECHNICAL SERVICE BULLETIN

### 4WD Inoperative, Illuminated Powertrain Malfunction (Wrench) Indicator And DTC C05D9:19 And/Or C05D9:99

**22-2136**

25 April 2022

#### Model:

<b>Ford</b> 2021-2022 Bronco
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**Issue:** Some 2021-2022 Bronco vehicles may exhibit an illuminated powertrain malfunction (wrench) indicator and diagnostic trouble codes (DTCs) C05F9:19 and/or C05D9:99 stored in the all-wheel drive (AWD) module and inoperative four wheel drive (4WD) system. These DTCs maybe setting due to a low battery state of charge. To correct the condition, follow the Service Procedure to verify the battery condition and restore the AWD module logic.

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

- 2021-2022 Bronco
- Illuminated powertrain malfunction (wrench) indicator and DTCs C05F9:19 and/or C05D9:99 stored in the AWD module
- 4WD system inoperative

#### Parts

Service Part Number	Quantity	Description
BAGM-94RH7-800	1	Battery, 800 Cold Cranking Amps
BAGM-48H6-760	1	Battery, 760 Cold Cranking Amps

**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: Check And Correct The Battery State Of Charge And Restore The AWD Module Logic Following The Service Procedure (Do Not Use With Any Other Labor Operations)	222136A	0.3 Hrs.
2021-2022 Bronco: Check And Correct The Battery State Of Charge, Replace The Battery And Restore The AWD Module Logic Following The Service Procedure (Do Not Use With Any Other Labor Operations)	222136B	0.5 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. Clear the DTCs with Ford Diagnosis and Repair System (FDRS).
3. Turn the ignition to the OFF position and wait for the instrument panel cluster to go blank.
4. Start the vehicle and shift the transfer case in to 4L. Verify the transfer case now operates properly by shifting between 2H, 4H, 4A, and 4L. If the concern is still present, follow normal diagnostics in the WSM, Section 307-07.

(1). Shift the transmission to neutral before shifting to 4L.

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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.