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Case Number: S2223000047

Release Date: June 2022

Symptom/Vehicle Issue: ACC Does Not Operate. Start Stop Unavailable, ACC Unavailable Service Required Messages. C1452-86 Engine Torque DASM- Signal Invalid

Discussion: If a customer complains of “ACC Unavailable Service Required” and/or Start Stop Unavailable and technician finds DTC C1452-86 Engine Torque DASM – Signal Invalid, follow the below guidance.

1. Perform a Vehicle Scan Report (VSR) and check the DTCs. For this document and procedure to apply there must be DTC C1452-86 in DASM fault memory.
2. Check the voltage on pin 71B vehicle side - PCM connector - with a multi-meter:
Brake pedal Voltage should normally (good) be:
Not pressed < 1V
Pressed >11V
 - a) If the measured voltage does not change when the brake pedal is pressed/released. Inspect the wiring harness or signal between BSM and ECM/BCM/RFHM (Fig 2). For short to power or ground. Note that the RFHM and BCM should also have DTCs related to brake switch status being incorrect.
 - b) the measured voltage does change when pressing/releasing the brake pedal: proceed with following checks on PCM. Use wiTECH to read data in the PCM- “Fail status” (Fig 1).

This document does not authorize warranty repairs. This communication documents a record of past experiences. STAR Online does not provide any conclusions about what is wrong with the vehicle. Rather, it captures all previous cases known that appear to be similar or related to the vehicle symptom / condition. You are the expert, and you are responsible for deciding on the appropriate course of action.

Contact STAR Center, or your Technical Assistance Center Via TechCONNECT or eCONTACT ticket if no solution is found



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Vehicle

- Selection
- Action Items
- ECU List**
- Activities
 - Guided Diagnostics
 - Vehicle Preparations
 - Customer Preferences
- Utilities
 - Flight Recording Viewer
 - Custom Display
 - Vehicle Data
 - Flight Recording
 - Barcode Reader
 - NVP

Valve Variator Actuator (VVA) valve solenoid coil temperature	201.7	°F	Bus:
Upstream relay battery voltage	14.10	V	Bus:
Injection time adjustment for battery voltage	0.15	ms	Bus:
Engine Control Module status	Coded		Bus:
Engine cranking	Enable		Bus:
Immobilizer universal code received	Not received / ECU coded		Bus:
Generic Fail Status	On		Bus:
Current Fail Status	Off		Bus:
Odometer	9043	miles	Bus:
Number of Flash memory rewritings	1		Bus:
Number of engine overspeed	0		Bus:
Maximum value of engine overspeed reached	0	rpm	Bus:
Maximum engine overspeed exceeding time counter	0	ms	Bus:

Fig 1

Example of PCM Data items Generic Fail Status and Current Fail Status.

In case of both data lines (Generic and Current) displaying “ON”, the issue could be inside the PCM which would require PCM replacement.

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Search c1452-86

Wiring Diagram - BRAKE SYSTEM

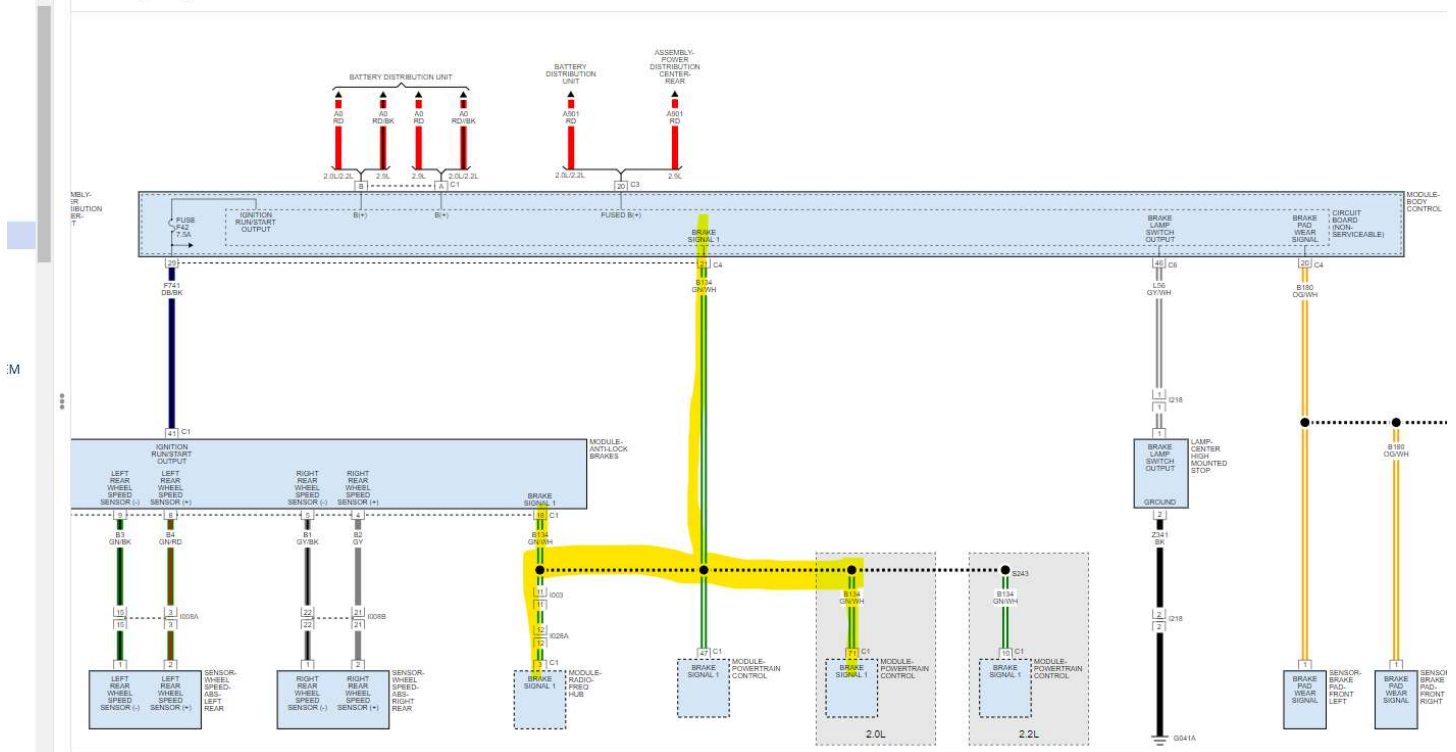


Fig 2
Brake signal 1 circuit.

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