















Case Number: S228A000003 - REV. A

Release Date: September 2022

**Symptom/Vehicle Issue:** Uconnect Box Error Message On Radio Screen And Diagnostic Trouble Code (DTC) code B22A9-96 Set

**Discussion:** The customer may report "Uconnect Box requires service" error popup on radio screen every time the vehicle starts. wiTECH shows active DTC B22A9-96 (ECU internal performance) set by Telematics Box Module 2, (TBM2).

Engineering is looking into this code and is looking for error code details in the TBM2 data if code is set active. Please add a scan report and this DTC data to the Repair Order (R/O) information. If a Star case is opened, please provide the data in the Star case. Here is the procedure:

Please use wiTECH tool to check the TBM2 data.

Select TBM2 module -> Data tab -> ECU internal fails screen and record the value of:

Modem – fail,	Yes / No
SIM module – fail,	Yes / No
GNSS/Modem receiver – fail,	Yes / No
Wi-Fi module – fail,	Yes / No
Accelerometer E60 – fail,	Yes / No

Log the name and "value" (yes/no) of those items to R/O and/or the STAR case.

If all the ECU internal fails values are set to fail, communication between vehicle controller and modem is not working. Please check the harness connections and reset the TBM to recover.

If one of the ECU internal fails value is sent to fail, it indicates a component failure. Check harness connections and update TBM2 software if any available.

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Contact STAR Center, or your Technical Assistance Center Via TechConnect, eCONTACT or Service Library entry if no solution is found.

















#### Diagnosis / Repair:

- 1. Check the TBM2 software version and update the TBM2 if service software is available.
- 2. Verify if Uconnect box error message disappeared and DTC went stored.
- 3. If the issue continues, pull out the TBM2 module fuse.
- 4. Disconnect all TBM2 harness connectors.
- 5. Disconnect all related in-line harness connections (if equipped).
- 6. Disconnect the related component harness connectors.
- 7. Inspect harness connectors, component connectors, and all male and female terminals for connector improper installation, connector lock damage, corrosion, water intrusion, bent terminals, overheating or terminal discolored, terminals pushed out.
  - Perform a terminal drag test on each connector terminal to verify proper terminal tension.
- 8. Repair any conditions that are found.
- Reconnect all TBM2 harness connectors and in-line harness connectors and related component harness connectors. Be certain that all harness connectors are fully seated, and the connector locks are fully engaged.
- 10. Plug in the TBM fuse.
- 11. Perform Proxi and TBM2 hard reset.
- 12. Erase the DTCs and perform wiTech scan again.
- 13. Replace the TBM2 module, if B22A9-96 DTC is still active.

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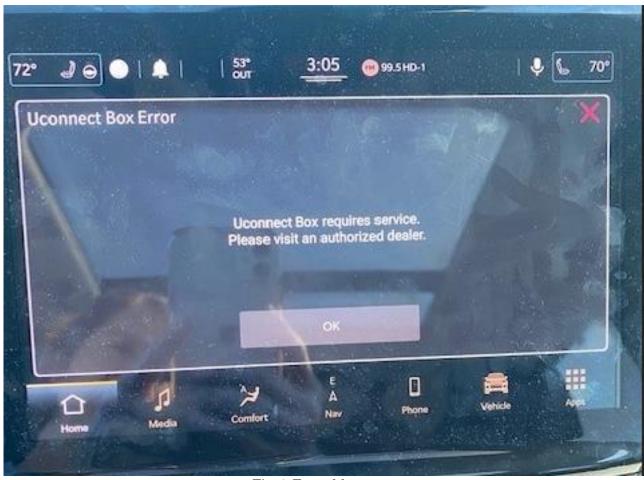


Fig 1 Error Message

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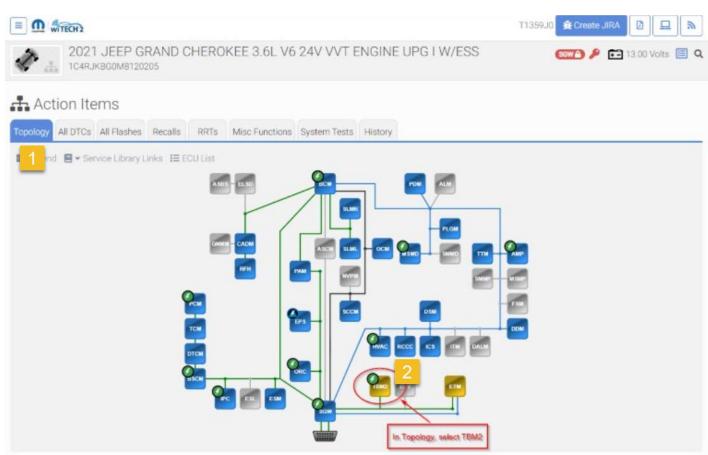


Fig 2 TBM2

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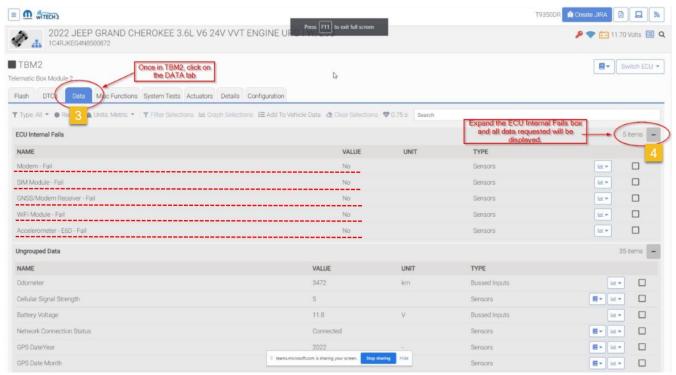


Fig 3 TBM2 Data - ECU Internal Fails

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