

Technical Service Bulletin (TSB)
Flash: Battery Pack Control Module
(BPCM) Diagnostic and System Updates

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|---------------------------|--|---|------------------|------------------|------------------|
| REFERENCE: | TSB: 08-006-25 GROUP: 08 - Electrical | Date: | January 14, 2025 | REVISION: | 08-012-24 REV. A |
| VEHICLES AFFECTED: | 2022 (WL) Jeep Grand Cherokee/Grand Cherokee L This bulletin applies to vehicles equipped with the 2.0L I4 DOHC DI Turbo PHEV Engine (Sales Code ECX). | MARKET APPLICABILITY: | | | |
| | | <input checked="" type="checkbox"/> NA <input checked="" type="checkbox"/> IAP <input checked="" type="checkbox"/> EE <input checked="" type="checkbox"/> MEA <input checked="" type="checkbox"/> SA <input checked="" type="checkbox"/> CH | | | |
| CUSTOMER SYMPTOM: | <p>**Customers must experience a Malfunction Indicator Lamp (MIL) illumination and the vehicle must exhibit/set one or more of the following Diagnostic Trouble Codes (DTCs):**</p> <ul style="list-style-type: none"> • **P0B24-00 - Hybrid/EV Battery "A" Voltage Unstable. • P1C5E-00 - Hybrid/EV Battery State Of Health Failed. • P0BBE-00 - Hybrid/EV Battery Pack Voltage Variation. • P0DAB-00 - Hybrid/EV Cell Balancing Performance.** • P0D0F-00 - Hybrid/ EV Battery Negative Contactor "A" Stuck Closed. • P0AA1-00 - Hybrid/EV Battery Positive Contactor "A" Stuck Closed. • P0AA4-00 - Hybrid Battery Negative Contactor Circuit Stuck Closed. <p>Customers may also experience the following:</p> <ul style="list-style-type: none"> • Low 12V battery causing vehicle not to start. | | | | |
| CAUSE: | BPCM software. | | | | |

This bulletin supersedes Technical Service Bulletin (TSB) 08-012-24 REV. A, date of issue March 13, 2024, which should be removed from your files. All revisions are highlighted with ****asterisks**** and include additional DTCs, updated Customer Symptom statement, updated Repair Procedure steps, updated RSU statement and new LOP.

****This Technical Service Bulletin (TSB) has also been released as a Rapid Service Update (RSU) 22-217, date of issue November 05, 2022. All applicable RSU VINs have been loaded. To verify this RSU service action is applicable to the vehicle, use VIP or perform a VIN search in DealerCONNECT/Service Library. All repairs are reimbursable within the provisions of warranty.****

REPAIR SUMMARY:

This bulletin involves updating the BPCM with the latest available software.

****CLAIMS DATA:**

| Labor Operation No: | Labor Description | Skill Category | Labor Time |
|---------------------|---|---------------------------------|------------|
| 18-19-87-AJ | Module, Battery Pack Control Module (BPCM) - Reprogram (0 - Introduction) | 6 - Electrical And Body Systems | 0.6 Hrs. |
| Failure Code | CC | Customer Concern | |

The dealer must use failure code CC with this Technical Service Bulletin.

- If the customer's concern matches the SYMPTOM identified in the Technical Service Bulletin, failure code CC is to be used.
- When utilizing this failure code, the 3C's (customer's concern, cause and correction) must be provided for processing Technical Service Bulletin flash/reprogramming conditions.**

DIAGNOSIS:

Using a Scan Tool (wiTECH) with the appropriate Diagnostic Procedures available in DealerCONNECT/ Service Library, verify all related systems are functioning as designed. If DTCs or symptom conditions, other than the ones listed above are present, record the issues on the repair order and repair as necessary before proceeding further with this bulletin.

If a customer's VIN is listed in VIP or your RSU VIN list, perform the repair. If any vehicle not on the VIN list exhibits the DTCs, perform the repair.

SPECIAL TOOLS/EQUIPMENT:

| Description | Ref. No. | Notes |
|----------------------|----------|-------|
| wiTECH or Equivalent | – | – |

REPAIR PROCEDURE:**WARNING!**

- **Before performing the software reprogramming, it is necessary to make the vehicle safe.**
- **When performing repairs that directly involve or imply possible contact with live high voltage components/systems, the technician must ensure that the power supply of the high-voltage system is disconnected throughout the operation.**
- **Only specifically trained technicians qualified to perform repairs on vehicles with high voltage systems under current national laws/regulations are authorized to work on the vehicle.**
- **Before performing any diagnostic repair work on the vehicle, carefully read and comply with the general instructions for working safely on hybrid/electric vehicles and use suitable general equipment and Personal Protective Equipment (PPE).**

NOTE: Install a battery charger to maintain a 12 volt system voltage.

NOTE: If this flash process is interrupted/aborted, the flash should be restarted.

1. **Have the 95B recall instruction been completed?
 - YES>>> Proceed to [Step 2](#).
 - NO>>> Follow the 95B Recall Instructions and utilize the LOPs contained within the Recall.**

2. Disable HV Battery Contactors using wiTECH - Go to the Misc Functions tab --> Select Disable HV Battery Contactors --> then follow the wiTECH prompts.
3. Use wiTECH to confirm that the contactors are open and waiting five minutes. If the contactors do not open turn the ignition on then off. Once successful a note will appear on the wiTECH screen indicating the contactors are open.
4. Reprogram the BPCM with the latest software. ****If issues arise when flashing a module using the wiTECH Diagnostic Application, please submit a ticket to the Helpdesk. The helpdesk can be found within the Help menu.****
5. Enable HV Battery Contactors using wiTECH - Go to the Misc Functions tab --> Select Enable HV Battery Contactors For Service--> then follow the wiTECH prompts.
6. ****Perform a Drive Cycle Routine using wiTECH - Go to BPCM --> Go to the System Tests tab --> Select 95B / 96B Drive Cycle --> then follow the wiTECH prompts.****
7. Clear all DTCs that may have been set in any module due to reprogramming. The wiTECH application will automatically present all DTCs after the flash and allow them to be cleared.

POLICY:

Reimbursable within the provisions of the warranty.

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