

Technical Service Bulletin (TSB)
Flash: Integrated Dual Charge Module (IDCM) Updates

REFERENCE:	TSB: 08-192-24 GROUP: 08 - Electrical	Date:	August 28, 2024	REVISION:	08-086-24
VEHICLES AFFECTED:	2024 (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: ☒ NA☒ IAP ☒ EE☐ MEA ☒ SA☐ CH	
CUSTOMER SYMPTOM:	Customers must experience a Malfunction Indicator Lamp (MIL) illumination. Upon further investigation the technician must find the following Diagnostic Trouble Code (DTC) has been set: • **B22A9-42 - ECU Internal Performance-General Memory Failure.** • B22A9-64 - ECU Internal Performance - Signal Plausibility Failure. • B22A9-16 - ECU Internal Performance - Circuit Voltage Below Threshold. • B22A9-17 - ECU Internal Performance - Circuit Voltage Above Threshold. • B22A9-19 - ECU Internal Performance - Overcurrent. Customers may also experience the following: • The vehicle will not charge.				
CAUSE:	IDCM software				

This bulletin supersedes Technical Service Bulletin (TSB) 08-086-24, date of issue March 19, 2024, which should be removed from your files. All revisions are highlighted with ****asterisks**** and include a new DTC, new RSU statement, new Claims Table and Related Time Allowance table, new LOP, a new Repair Procedure note, new Repair Procedure steps, and a new Policy statement.

****This Technical Service Bulletin (TSB) has also been released as a Rapid Service Update (RSU) 23-208, date of issue July 11, 2023. 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 IDCM with the latest available software.

****CLAIMS DATA:**

Labor Operation No:	Labor Description	Skill Category	Labor Time
18-90-16-9D	Integrated Dual Charge Module (IDCM) - Reprogram (0 - Introduction)	6 - Electrical and Body Systems	0.3 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.

RELATED TIME ALLOWANCE:

Labor Operation No:	Labor Description	Skill Category	Labor Time
18-19-87-52	wiTECH Routine to Disable/Enable HV Battery Contactors for Service; Includes 5 Minute Waiting Period (0 - Introduction)	6 - Electrical and Body Systems	0.2 Hrs.**

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 the customer describes any of the symptoms listed above in the customer symptom section, perform the Repair Procedure.

SPECIAL TOOLS/EQUIPMENT:

Description	Ref. No.	Notes
wiTECH or Equivalent	—	—

REPAIR PROCEDURE:

- DANGER!**
- 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: **The vehicle must not be connected to a high voltage charger when performing software updates.**

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.

NOTE: Additional module flashes are required for this update to be effective, the following modules are all to be updated along with this IDCM update:

- **Battery Pack Control Module (BPCM).**
- **Hybrid Control Processor (HCP), Auxiliary Hybrid Control Processor (AHCP) also known as the Power Inverter Module (PIM).**
- **Transmission Control Module (TCM).**
- **Powertrain Control Module (PCM).**

1. ****Is the Recall Campaign 04B open for this vehicle?**
 - YES>>> Perform the 04B Recall Campaign. Follow the 04B Recall instructions and utilize the LOPs contained within the Recall.
 - NO>>> Proceed to [Step 2](#).
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 IDCM with the latest software. Detailed instructions for flashing control modules using the wiTECH Diagnostic Application are available by selecting the application "HELP" tab.
5. 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.
6. ****Enable HV Battery Contactors using wiTECH - Go to the Misc Functions tab --> Select Enable HV Battery Contactors For Service--> then follow the wiTECH prompts.****
7. Verify the vehicle will charge.
8. Does the vehicle charge properly after the software flash?
 - YES >>> This bulletin has been completed. No further action is required.
 - NO >>> Proceed to [Step 9](#).
9. The IDCM will need to be replaced under normal warranty. Refer to the detailed service procedures available in DealerCONNECT> Service Library under: Service Info>08 - Electrical / 8E - Electronic Control Modules / Module, Integrated Dual Charging (IDCM) / Removal and Installation.

NOTE: The new IDCM will not have to be programmed, it will already have the latest software installed.

POLICY:

****Reimbursable within the provisions of the warranty.****

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