



NUMBER: 08-137-22

GROUP: 08 - Electrical

DATE: June 29, 2022

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SUBJECT:

Flash: Integrated Dual Charging Module (IDCM) Enhancements

OVERVIEW:

This bulletin involves reprogramming the IDCM with the latest software available or replacing the IDCM if required.

MODELS:

2022 (JL) Jeep Wrangler

NOTE: This bulletin applies to vehicles within the following markets/countries: North America, APAC and EMEA.

NOTE: This bulletin applies to vehicles built on or before May 13, 2022 (MDH 0513XX) equipped with 2.0L I4 DOHC DI Turbo PHEV Engine (Sales Codes ECX).

SYMPTOM/CONDITION:

Customers may experience a Malfunction Indicator Lamp (MIL) illumination. Upon further investigation the technician may find the following Diagnostic Trouble Code (DTC) have been set:

- B22A9-64 - ECU Internal Performance-Signal Plausibility Failure.

Customer may also experience the following:

- Vehicle will not charge.

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 Diagnostic Trouble Codes (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 the symptom/condition listed above or if the technician finds the DTC, perform the Repair Procedure.

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. Does the IDCM have the latest software already installed?
 - YES >>> This bulletin has been completed, further diagnosis may be necessary.
 - NO >>> Update the IDCM software. Proceed to [Step 2](#).
2. Perform the vehicle “High-Voltage Power Down” procedure. Refer to the detailed service procedures available in DealerCONNECT/Service Library under: Service Info> 08 –Electrical/Standard Procedure/High-Voltage Power Down.
3. Reconnect the 12 volt battery.
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. Perform the vehicle “High-Voltage Power Up” procedure. Refer to the detailed service procedures available in DealerCONNECT/Service Library under: Service Info>08 - Electrical /Standard Procedure> 08 – Electrical/Standard Procedure/High-Voltage Power Up.
7. Verify the vehicle will charge.
8. Does the vehicle charge properly after the software flash?
 - YES >>> This bulletin has been completed, Use LOP (18-90-16-96). no further action is required.
 - NO >>> 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.

TIME ALLOWANCE:

| Labor Operation No: | Description | Skill Category | Amount |
|---------------------|--|---------------------------------|----------|
| 18-90-16-96 | Module, Integrated Dual Charging (IDCM) - Reprogram (0 - Introduction) | 6 - Electrical and Body Systems | 0.3 Hrs. |

NOTE: The expected completion time for the flash download portion of this procedure is approximately 9 minutes. Actual flash download times may be affected by vehicle connection and network capabilities.

RELATED TIME ALLOWANCE:

| Labor Operation No: | Description | Skill Category | Amount |
|---------------------|---|---------------------------------|----------|
| 08-08-11-50 | High Voltage Power Down and UP Procedures (0 - Introduction) | 6 - Electrical and Body Systems | 0.7 Hrs. |

FAILURE CODE:

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

- If the customer's concern matches the SYMPTOM/CONDITION 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.

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|----|------------------|
| CC | Customer Concern |
|----|------------------|