

Technical Service Bulletin (TSB)

Integrated Dual Charging Module (IDCM) Replacement

REFERENCE:	TSB: 08-058-23 GROUP 08 - Electrical	Date:	February 25, 2023	REVISION:	–
VEHICLES AFFECTED:	2022 (JL) Jeep Wrangler This bulletin applies to vehicles built on or after March 01, 2022 (MDH 0301XX) and on or before May 13, 2022 (MDH 0513XX) equipped with 2.0L I4 DOHC DI Turbo PHEV Engine (Sales Code ECX).			MARKET APPLICABILITY: ☒ NA ☐ SA ☐ EE ☐ MEA ☒ IAP ☒ CH	
CUSTOMER SYMPTOM:	Customers may experience a Malfunction Indicator Lamp (MIL) illumination. Upon further investigation the technician may find the following DTCs have been set: - B22A9-87 - ECU Internal Performance-Missing Message. Customer may also experience the following: - Unable to charge the vehicle.				
CAUSE:	IDCM				

This Technical Service Bulletin (TSB) has also been released as a Rapid Service Update (RSU) 23-052, date of issue February 25, 2023. All applicable Sold and UnSold 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. This RSU will expire 18 months after the date of issue.

REPAIR SUMMARY:

This bulletin involves replacing the IDCM.

CLAIMS DATA:

Labor Operation No:	Labor Description	Skill Category	Labor Time
08-83-16-91	Module, Integrated Dual Charging (IDCM) - Inspect and Replace (3 - Skilled)	6 - Electrical and Body Systems	3.5 Hrs.
Failure code	ZZ	Service Action	

SPARE PARTS:

Qty	Part No.	Description	Notes
1 (AR)	05185035AR	Module, Integrated Dual Charging (IDCM)	
(AR)	68163848AB	Coolant, Engine	

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 symptom/condition or DTC, perform the repair.

SPECIAL TOOLS/EQUIPMENT:

Description	Ref. No.	Notes
wiTECH or Equivalent	—	—

REPAIR PROCEDURE:

- 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).
1. Is the vehicle on the RSU VIN list?
 - YES>>> Proceed to [Step 3](#)
 - NO >>> Proceed to [Step 2](#).
 2. Is the vehicle able to be charged properly or does not have the DTC B22A9-87 present , active or stored?
 - YES>>> This bulletin does not apply, further diagnosis is needed.
 - NO >>> Proceed to [Step 3](#).
 3. Perform the vehicle “High-Voltage Power Down” procedure. Refer to the detailed service procedures available in DealerCONNECT/Service Library under: Service Info> 12 - Electrified Powertrain System / High Voltage Battery / Standard Procedure/High-Voltage Power Down.
 4. Replace the IDCM. Refer to the detailed service procedures available in DealerCONNECT > Service Library under: Service Info>12 - Electrified Powertrain System / Electric Powertrain Control / Modules, High Voltage System / Removal and Installation

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

5. Perform the vehicle “High-Voltage Power Up” procedure. Refer to the detailed service procedures available in DealerCONNECT/Service Library under: Service Info>12 - Electrified Powertrain System / High Voltage Battery / Standard Procedure/High-Voltage Power Up.
6. Clear any DTCs that may have been set in any modules due to the repair. The wiTECH application will automatically present all DTCs and allow them to be cleared.

POLICY:

Reimbursable within the provisions of the warranty.

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