

**Technical Service Bulletin (TSB)**  
**Electric Vehicle Control Unit (EVCU) Replacement**

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| REFERENCE:         | TSB: 08-153-25 REV. A<br>GROUP: 08 - Electrical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Date: | September 30, 2025 | REVISION:                                                                                                                                                                                                                                                                                      | 08-153-25 |
| VEHICLES AFFECTED: | <b>**2024** - 2025 (KM) Jeep Wagoneer S</b><br>This bulletin applies to vehicles built on <b>**or after August 15, 2024 (MDH 0815XX)</b> and on <b>** or before February 24, 2025 (MDH 0224XX)</b> <b>**equipped with a 400V G2500 FR/RR Elec Drive Motors (Sales Code ELD)**.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |                    | <b>MARKET APPLICABILITY:</b><br><input checked="" type="checkbox"/> NA <input type="checkbox"/> MEA<br><input type="checkbox"/> SA <input type="checkbox"/> IAP<br><input type="checkbox"/> EE <input type="checkbox"/> CH<br><b>NOTE: **This bulletin applies to North America markets.**</b> |           |
| CUSTOMER SYMPTOM:  | <b>Customers may experience a Malfunction Indicator Lamp (MIL) illumination and the vehicle may exhibit/set one or more of the following Diagnostic Trouble Codes (DTCs):</b> <ul style="list-style-type: none"><li>• C10F8-00 - Left Front Wheel Hub Disconnect Actuator Position Sensor Circuit Range/Performance.</li><li>• C10F9-00 - Right Front Wheel Hub Disconnect Actuator Position Sensor Circuit Range/Performance.</li><li>• P061B-00 - Internal Control Module Torque Calculation Performance.</li></ul> <b>Customers may also comment on one or more of the following:</b> <ul style="list-style-type: none"><li>• wiTECH is unable to recognize and update the EVCU software.</li><li>• Instrument Panel Cluster (IPC), radio range and charge time estimations and messages are not correct.</li><li>• Battery range incorrect.</li><li>• Improved battery State of Charge (SoC) accuracy in off-nominal conditions.</li><li>• Battery heating values incorrect on radio when on Performance Pages display.</li><li>• Charging does not start when plugged in.</li><li>• Charging is not indicating when battery is at full charge.</li><li>• Charging slow or takes too long.</li><li>• Bumps and jerks while accelerating or decelerating.</li><li>• Wrench icon is illuminated on the Instrument Panel Cluster (IPC).</li><li>• Turtle icon is illuminated on the IPC.</li><li>• Vehicle enters into limp home mode.</li></ul> |       |                    |                                                                                                                                                                                                                                                                                                |           |
| CAUSE:             | Incorrect software                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |                    |                                                                                                                                                                                                                                                                                                |           |

This bulletin supersedes Technical Service Bulletin (TSB) 08-135-25, date of issue May 09, 2025, which should be removed from your files. All revisions are highlighted with **\*\*asterisks\*\*** and include an additional model year, addition of a sales code, updated build dates, a new Market Applicability note, new RSU number and date, updated Repair Summary, new LOPs, updated Spare Parts information and additional Repair Procedure steps.

This Technical Service Bulletin (TSB) has also been released as a Rapid Service Update (RSU) **\*\*25-204, date of issue September 30, 2025\*\***. 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 inspecting the EVCU part number label and possibly replacing the EVCU.\*\***

**CLAIMS DATA:**

| Labor Operation No: | Labor Description                                                                                                                                | Skill Category                  | Labor Time |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------|
| **08-19-49-9D       | Module, Electric Vehicle Control Unit (EVCU) - Inspect Part Number / Modification Label (3 - Highly Skilled)                                     | 6 - Electrical and Body Systems | 0.2 Hrs.   |
| 08-19-49-9E         | Module, Electric Vehicle Control Unit (EVCU) - Inspect and Replace Includes PROXI Configuration Alignment / wiTECH Routines (3 - Highly Skilled) | 6 - Electrical and Body Systems | 1.0 Hrs.** |
| Failure Code        | ZY                                                                                                                                               | Service Action                  |            |

**RELATED LOPS:**

| Labor Operation No: | Labor Description                                                        | Skill Category                  | Labor Time |
|---------------------|--------------------------------------------------------------------------|---------------------------------|------------|
| 08-00-02-51         | High Voltage Power Down, Power Up, and Isolation Test (1 - Semi Skilled) | 6 - Electrical and Body Systems | 0.6 Hrs.   |

**SPARE PARTS:**

| Qty      | Part No.     | Description                   | Notes |
|----------|--------------|-------------------------------|-------|
| 1 **(AR) | 68566944AH** | Module, EV Control Unit, EVCU |       |

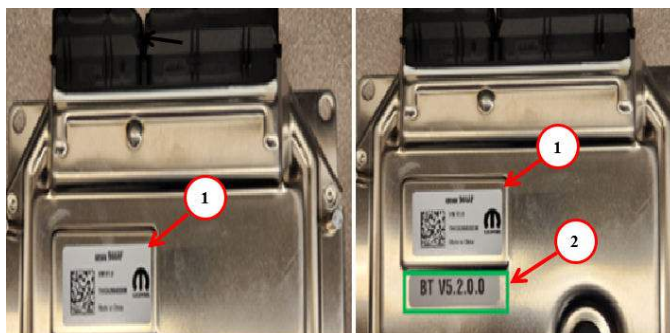
**DIAGNOSIS:**

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

## REPAIR PROCEDURE:

1. \*\*Is the vehicle on the RSU VIN list?
  - YES>> Proceed to [Step 2](#).
  - NO>>> Proceed to [Step 2](#).
2. Remove the storage bin. Refer to the detailed service procedures available in DealerCONNECT/Service Library under: Service Info> 23 - Body / Exterior / Bin, Storage / Removal.
3. Locate and inspect the EVCU part number label [Fig. 1](#).



**Fig. 1**  
EVCU Part Labels

1 - EVCU Part Number Label with 68566944AF - Replace EVCU

2 - EVCU Part Number Label with 68566944AF and Additional EVCU Label (BT V5.2.0.0 or V5.4.0.0 Label) - Do Not Replace EVCU

4. Is the part number on the label 68566944AF and no other label stating BT V5.2.0.0 or BT V5.4.0.0 is found on the EVCU [Fig. 1](#)?
  - YES>>> Proceed to [Step 6](#).
  - NO>>> Proceed to [Step 5](#). Use Inspection LOP (08-19-49-9D) to close the active RSU.
5. Install the storage bin. Refer to the detailed service procedures available in DealerCONNECT/Service Library under: Service Info> 23 - Body / Exterior / Bin, Storage / Installation.\*\*
6. Replace the EVCU. 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.
7. \*\*Clear DTCs.\*\*

## POLICY:

Reimbursable within the provisions of the warranty.

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