



## Technical Service Bulletin

GROUP  
**EV SYSTEMS**

NUMBER  
**25-EV-002H**

DATE  
**APRIL 2025**

MODEL(S)  
**IONIQ 5 (NEA EV)**

**SUBJECT:** HV BATTERY INSPECTION & REPLACEMENT

**Description:** Certain 2025MY IONIQ 5 (NEA EV) vehicles may experience a charging issue where a voltage difference between battery cells prevents the High Voltage Battery from fully charging. The two DTCs associated with this issue are:

- **P1AA700** – Hybrid/EV Battery Abnormal Performance: Cell Voltage Deviation
- **P1AD300** – Hybrid/EV Battery Abnormal Performance: MISD.

If either of the DTCs listed above are identified in "Active" status, follow the procedure outlined in this TSB to replace the Battery System Assembly (BSA).

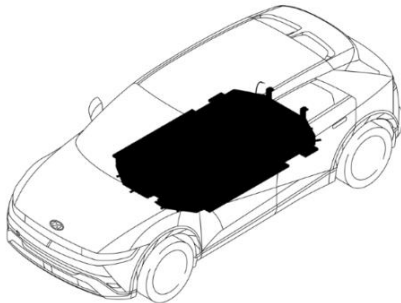
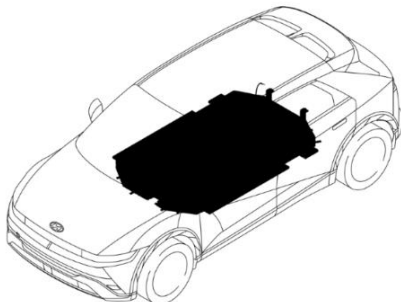
### Applicable Vehicles:

- 2025MY IONIQ 5 (NEA EV) produced from 12/10/2024 - 04/08/2025 (VIN starts with '7YA')

### NOTICE

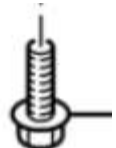
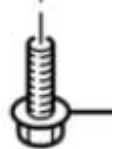
To avoid any potential damage to IONIQ vehicles, IONIQ repairs can only be performed at IONIQ certified dealers.

### Parts Information:

| Model               | Part Name            | Part Number | Figure                                                                                |
|---------------------|----------------------|-------------|---------------------------------------------------------------------------------------|
| IONIQ 5<br>(NEA EV) | BSA –<br>Long Range  | 37501-PI050 |  |
|                     | BSA –<br>Short Range | 37501-PI150 |  |

Circulate To: General Manager, Service Manager, Parts Manager, Warranty Manager, Service Advisors, Technicians, Body Shop Manager, Fleet Repair

**SUBJECT:****HV BATTERY INSPECTION & REPLACEMENT**

| Model               | Part Name                | Part Number | Figure                                                                                                   |
|---------------------|--------------------------|-------------|----------------------------------------------------------------------------------------------------------|
| IONIQ 5<br>(NEA EV) | BSA Bolt & Washer Assy   | 37535-GI050 | <br>(QTY 8 REQUIRED)  |
|                     | BSA Bolt & Washer Assy   | 37535-GI500 | <br>(QTY 18 REQUIRED) |
|                     | Pink-Antifreeze /Coolant | 00232-19098 | <br>(QTY 2)           |

**Warranty Information:**

| Model               | Op. Code | Operation                        | Op. Time | Causal Part | Nature Code | Cause Code |
|---------------------|----------|----------------------------------|----------|-------------|-------------|------------|
| IONIQ 5<br>(NEA EV) | 50DV03R0 | Battery Inspection & Replacement | 2.9 M/H  | 37501-PI050 | W11         | ZZ3        |
|                     | 50DV03R1 |                                  |          | 37501-PI150 |             |            |

**NOTE 1:** Submit claim on Claim Entry Screen as "Campaign" type.

**NOTE 2:** This TSB contains repair validation photo(s). Op times include VIN, Mileage, and Repair validation photo (s) as outlined in the Digital Documentation Policy

**NOTE 3:** The incident parts are subject to callback through the normal Warranty Technical Center (WTC) parts return process. **Claim is subject to debit if the part is not returned.**

**NOTE 4:** If a part is found in need of replacement while performing this TSB and the affected part is still under warranty, submit a separate claim using the same repair order. If the affected part is out of warranty, submit a Prior Approval request for goodwill consideration prior to performing the work.

**NOTE 5:** If DTC P1AA700 and/or P1AD300 are confirmed in "active" status, a submission of current BMS data and Freeze Frame data will be required for Techline review prior to placing an order for replacement BSA.

**NOTE 6:** Dealer will be reimbursed with 2 gallons of coolant under both op codes.

## Service Procedure:

**DIGITAL DOCUMENTATION**

This TSB includes Repair validation photos. Refer to the latest Warranty Digital Documentation Policy for requirements.

**NOTICE**

Applying the recommended torque to all fasteners is essential to reduce potential issues from occurring after the service procedure.

**! WARNING**

When working on the high voltage system, ensure to read and comply with the "**Safety Precautions, Cautions and Warnings**". Failure to comply with the safety instructions may result in serious accidents due to electric shock or leakage.

When working on the high voltage system, ensure to cut off the high voltage first per the "**High Voltage Cut-off Procedure**". Failure to comply with the safety instructions may result in serious accidents due to electric shock or leakage.

1. Connect GDS and perform a Fault Code Search on the BMS system:
  - If **P1AA700** and/or **P1AD300** are active, then submit BMS and Freeze Frame data as a Techline case.
  - If neither DTCs are **NOT** listed, then perform troubleshooting.
    - This TSB does **NOT** apply.

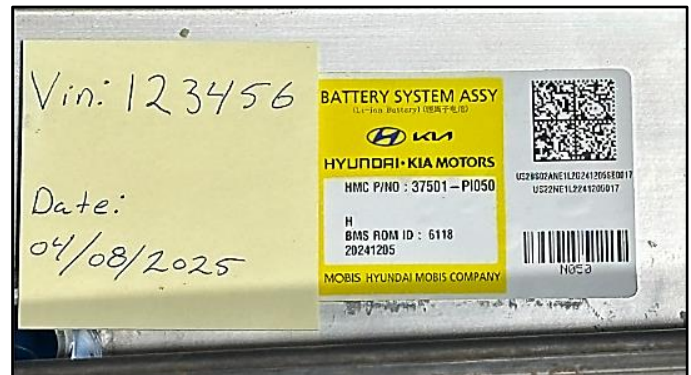
| <b>HYUNDAI</b> 7YAKNDDC05Y002933 B26AAOR0252503270191 03/27/25 13:31                                          |        |      |
|---------------------------------------------------------------------------------------------------------------|--------|------|
| <b>DTC CAUSE TO SYSTEM ERROR : P1AA700</b><br>Hybrid/EV Battery Abnormal Performance : Cell Voltage Deviation |        |      |
| Sensor Name(127)                                                                                              | Value  | Unit |
| State of Charge of Battery(BMS)                                                                               | 50.5   | %    |
| Display SOC                                                                                                   | 49.5   | %    |
| Available Charge Power                                                                                        | 277.00 | kW   |
| Available Discharge Power                                                                                     | 277.00 | kW   |
| BMS Main Relay ON Status                                                                                      | OPEN   | -    |

2.

**DIGITAL DOCUMENTATION**

Using STUI, take a photo of the installed BSA's part label with the last 6 digits of the VIN and the date of the repair on a piece of paper.

Upload the photo to STUI.

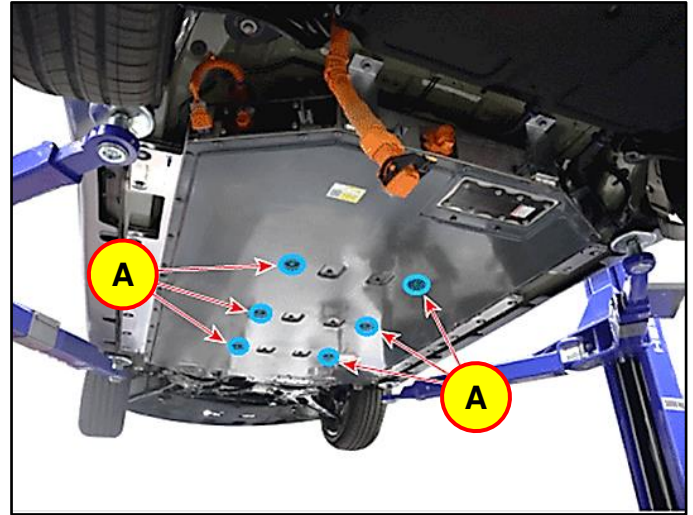


3. Replace the BSA (A) by referring to the shop manual:
  - **Battery Control System > High Voltage Battery System > Battery System Assembly (BSA) > Removal / Installation**

**NOTICE**

Ensure the one-time bolts are replaced per the shop manual procedures.

Applying the recommended torque to all fasteners is essential to reduce potential issues from occurring after the service procedure.



4. The service procedure is now complete.