



HYUNDAI

Technical Service Bulletin

GROUP	NUMBER
EV SYSTEM	24-EV-004H
DATE	MODEL(S)
JULY 2024	SEE BELOW

SUBJECT: ICCU SPECIAL SERVICE INSTRUCTIONS

This TSB supersedes TSB #23-EV-004H to include 2024MY IONIQ 5 (NE1), IONIQ 6 (CE1), and IONIQ 5 ROBOTAXI (NER) to the Applicable Vehicles section.

Description: This bulletin provides important special service instructions to properly repair a vehicle that has been diagnosed to require an Integrated Charge Control Unit (ICCU) replacement, such as required for DTC P1A9096 DC to DC related charging concern or for inoperative AC charging.

- **The ICCU fuse accessible from a rear side panel of the EV Battery, should NEVER be replaced by itself prior to receiving an ICCU replacement part.**
- **The ICCU fuse should be replaced at the same time as replacing the ICCU part.**
 - The ICCU fuse function is to protect the EV Battery from a damaged ICCU.
 - DTC P1B77 Power Relay Assy (PRA) damage in the EV Battery can occur when an ICCU fuse is first replaced without also replacing the ICCU together.
 - Vehicles with P1B77 require Techline approval for field staff involved EV Battery repair and can result in significant additional delay for customers.
 - Wait to receive ICCU replacement part first before also replacing the ICCU fuse on the rear side of the EV battery.

This bulletin also covers how to handle a situation when the nut(s) at the rear of the ICCU fuse falls back into the battery.

Applicable Vehicles:

- 2022-2024MY IONIQ 5 (NE1)
- 2023-2024MY IONIQ 6 (CE1)
- 2024MY IONIQ 5 ROBOTAXI (NER)

NOTICE

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

Warranty Information: Normal Warranty applies.

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

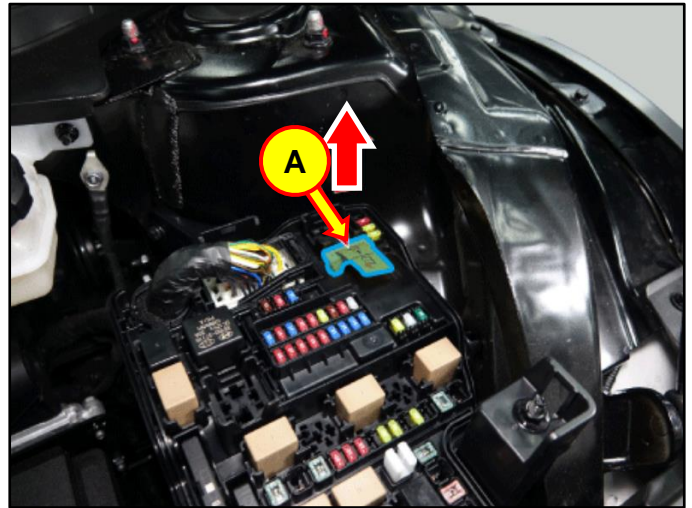
Service Procedure:

ICCU Replacement:

1. Shut off the high-voltage circuit by pulling out the service interlock connector (A) and waiting at least 5 minutes for capacitors to discharge voltage.

Refer to Shop Manual:

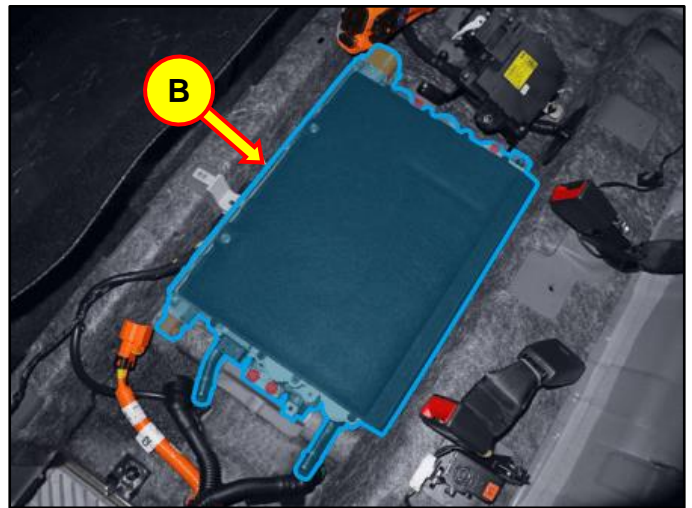
- **Battery Control System > High Voltage Shut-off procedures**



2. Remove and replace the ICCU assembly (B) under the rear seat.

Refer to Shop Manual:

- **Battery Control System > High Voltage Charging System > Integrated Charge Control Unit (ICCU) > Removal / Installation**

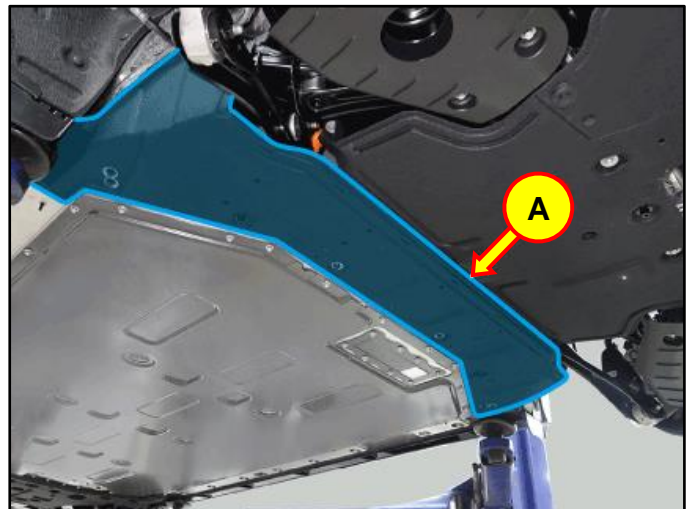


ICCU Fuse Inspection and Replacement:

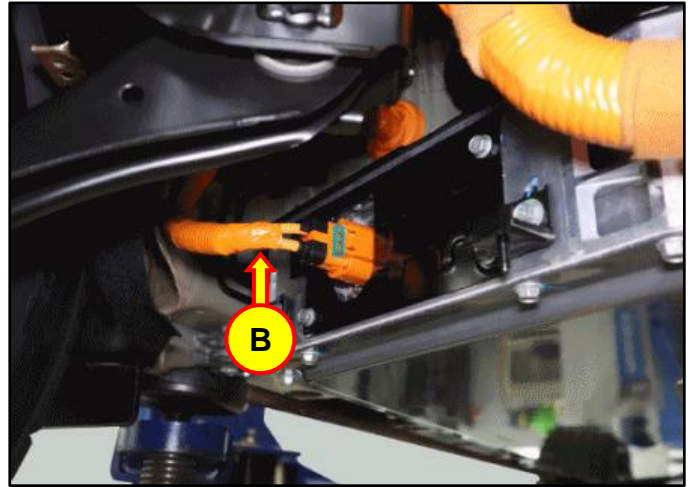
1. Remove the rear under cover (A).

Refer to Shop Manual:

- **Motor and Reduction Gear System > Rear Motor and Reduction Gear System > Rear Under Cover > Removal and Installation**



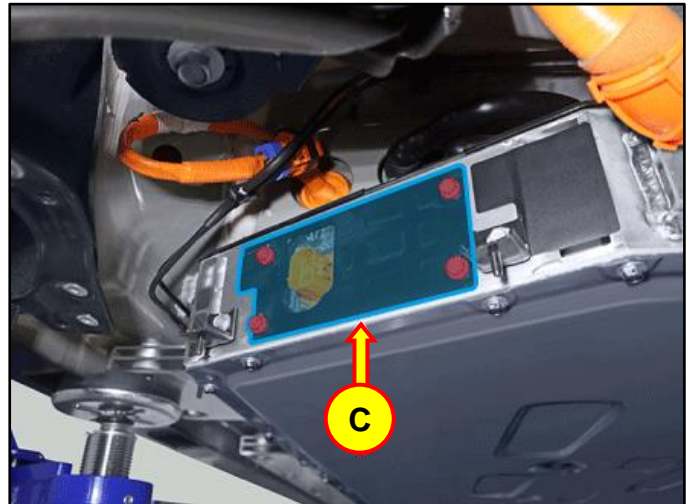
2. Disconnect the ICCU high-voltage connector (B) from the rear side of the EV battery.



3. Remove the ICCU high-voltage connector assembly cover (C).

Tightening Torque:

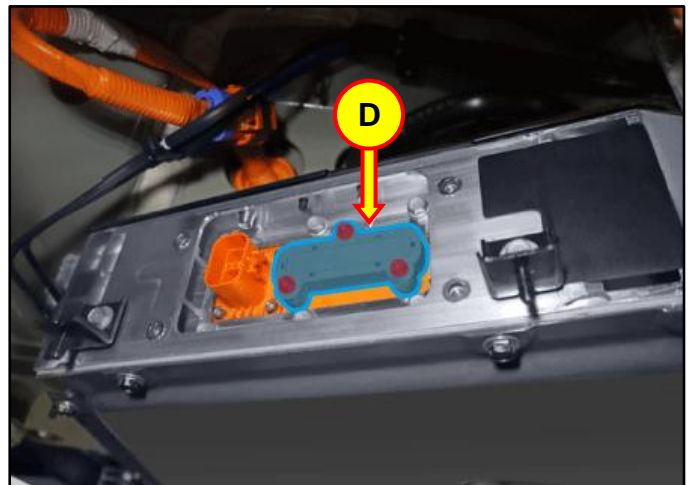
lb-ft	7.4
lb-in	88.5
N.m	10.0



4. Remove the ICCU fuse cover (D).

Tightening Torque:

lb-ft	3.7
lb-in	44.4
N.m	5.0



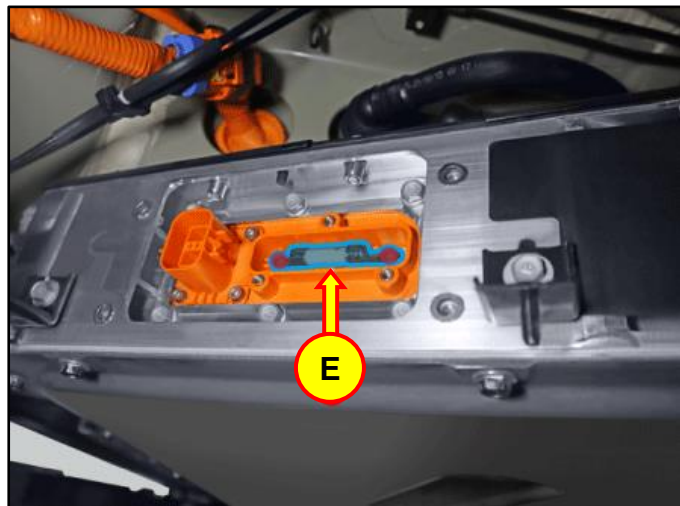
- Remove ICCU fuse (E).

NOTICE

Be very careful when removing or reinstalling the bolts that hold the fuse in place. Remove/install slowly and carefully by hand tool.

The nut(s) on the rear side of the fuse have been known to sometimes fall back into the battery.

See SPECIAL INSTRUCTION on next page if the nut(s) fall into the battery.



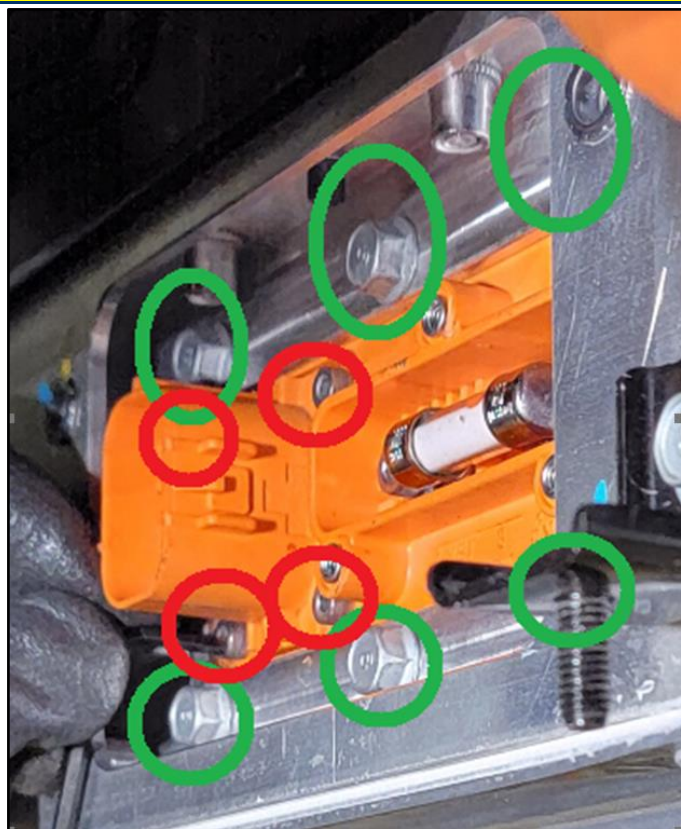
- Inspect the fuse condition for a blown condition with an ohmmeter for open circuit.
- If open circuit is confirmed, replace with the supplied ICCU fuse.
- Install in the reverse order of removal.

Tightening Torque for Bolts:

lb-ft	7.4
lb-in	88.5
N.m	10.0

SPECIAL INSTRUCTION: Only applies when ICCU Fuse rear nut(s) falls back into the battery.

1. Remove:
 - 6 qty. 10mm bolts (circled in Green),
 - 4 qty. bolts by Allen wrench (circled in Red).
2. Push in bottom area. Pull out top area.
3. Reach in and grab the nut behind the plate on the bottom surface.
4. Hold the nut at the back side.
5. Install the fuse bolt at the place that the nut had dropped.
6. Install all the other bolts in reverse order of removal.
7. Install the rest of the fuse bolts.



NOTE: Contact Techline if the above procedure did not resolve a dropped nut problem.