



Technical Service Bulletin

GROUP	NUMBER
EV SYSTEM	23-EV-004H
DATE	MODEL(S)
JUNE 2023	IONIQ 5 (NE) IONIQ 6 (CE)

SUBJECT: ICCU SPECIAL SERVICE INSTRUCTIONS

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: 2022-2023MY Ioniq 5 Electric (NE) and Ioniq 6 Electric (CE)

Warranty Information: Normal Warranty applies.

NOTICE

This TSB for IONIQ 5 and IONIQ 6 can only be performed by IONIQ certified Hyundai dealerships.

Service Procedure:

ICCU REPLACEMENT:

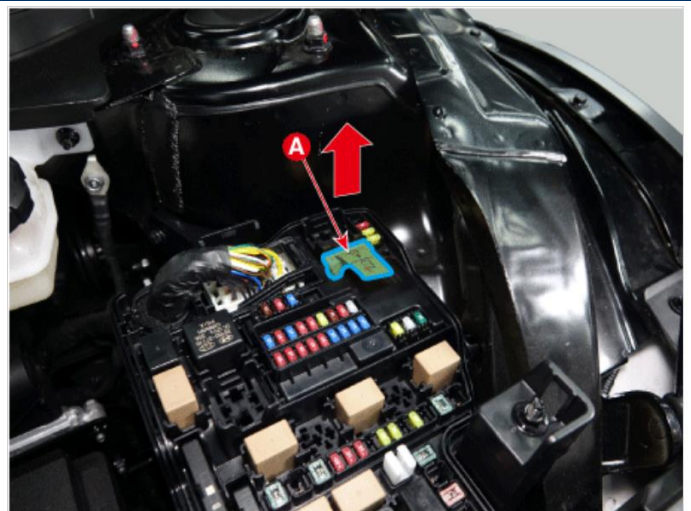
1. Shut off the high voltage circuit by pulling out the service interlock connector and waiting at least 5 minutes for capacitors to discharge voltage.



Information

Refer to the shop manual:

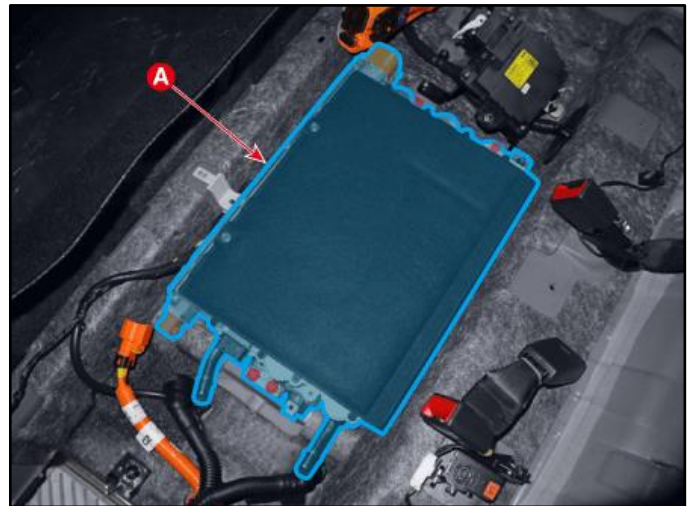
Battery Control System > High Voltage Shut-off Procedures



- Remove and replace the ICCU assy under the rear seat.

i Information

Refer to the shop manual:
 Battery Control System > High Voltage Charging System > Integrated Charge Control Unit ICCU)



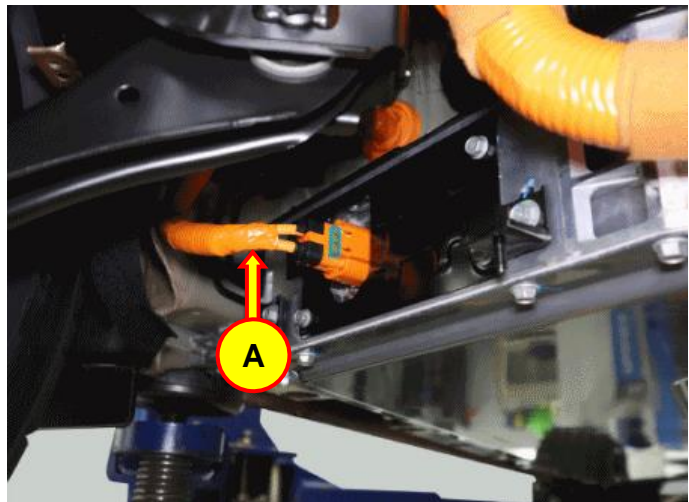
ICCU Fuse Inspection and Replacement:

- Remove the rear under cover.

i Information

Refer to the shop manual.
 - Motor and Reduction Gear System >
 Rear Motor and Reduction Gear System
 > Rear Under Cover

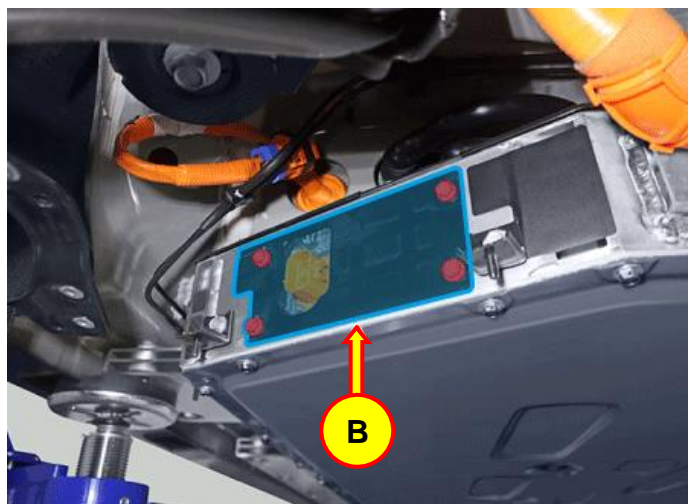
Disconnect the ICCU high voltage connector (A) from the rear side of the EV battery.



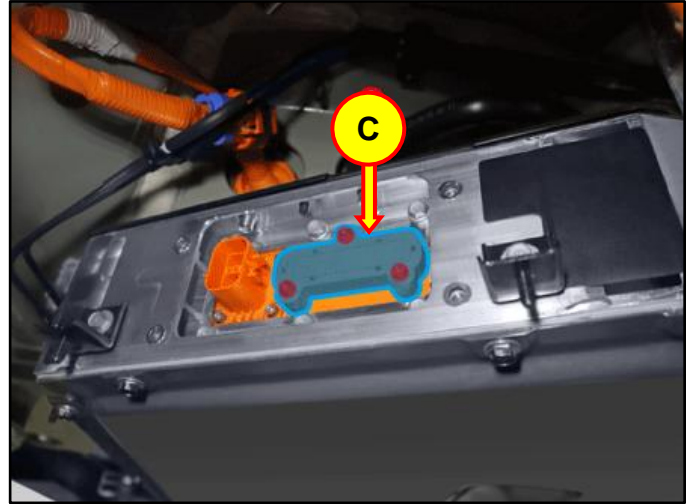
- Remove the ICCU high voltage connector assembly cover (B).

Tightening Torque:

lb-ft	8
lb-in	96
N.m	10



5. Remove the ICCU fuse cover (C)



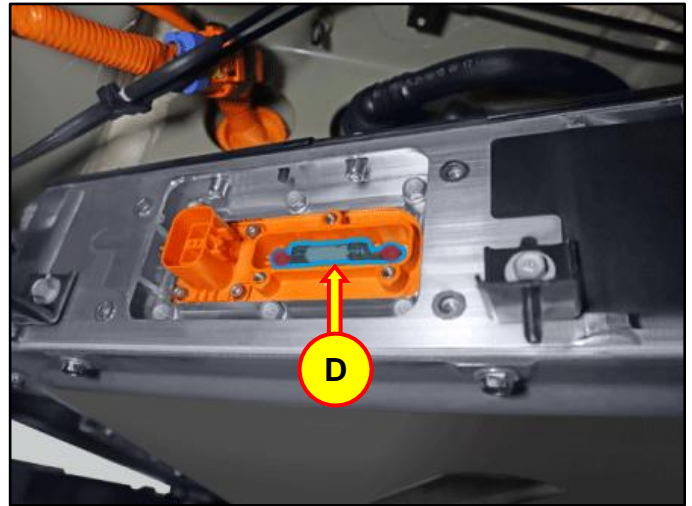
6. • Remove ICCU fuse (D).

CAUTION

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 the 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.

Bolt Tightening Torque:

lb-ft	8
lb-in	96
N.m	10

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

1. Remove:
 - 6 qty. 10mm bolts (Green marked),
 - 4 qty. bolts by Allen wrench (Red marked).
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.

