



GROUP	MODEL
Subsequent Repair Action	2022-2024MY EV6, EV6 GT (CV)
NUMBER	DATE
SC327Y (Rev 1, 01/15/2026)	December 2024

SUBSEQUENT REPAIR ACTION

SUBJECT:

ICCU AND FUSE REPLACEMENT (SC327Y)

NOTICE

This bulletin has been revised to include additional information. New/revised sections of this bulletin are indicated by a black bar in the margin area.

This bulletin provides information related to the Technical Service Bulletin previously published under SC327, titled "ICCU and Fuse Inspection/Replacement and ICCU Software Upgrade." If DTC P1A9096 is present or stored after ICCU Software Upgrade has been performed per SC327, follow the instructions in this bulletin to replace the ICCU and ICCU fuse. Before conducting the procedure, verify that the vehicle is included in the list of affected VINs.

DTC Description:

P1A9096 - DC/DC Converter Input Voltage Sensor Fault



NOTICE

There is no charge to the vehicle owner for this repair. Under applicable law, you may not sell or otherwise deliver any affected vehicle until it has been repaired pursuant to the procedures set forth in this bulletin.

Repair status for a VIN is provided on KDealer+ (Service → Warranty Coverage → Warranty Coverage Inquiry → Campaign Information). Not completed Recall / Service Action reports are available on KDealer+ (Consumer Affairs → Not Completed Recall → Recall VIN → Select Report), which includes a list of affected vehicles.

A printed copy is for reference only; publication information can be updated at any time. Always refer to KGIS for the latest information. After logging in kdealer.com, the newest technical publications are listed in 'Service Releases' and has the latest service information that has been released.

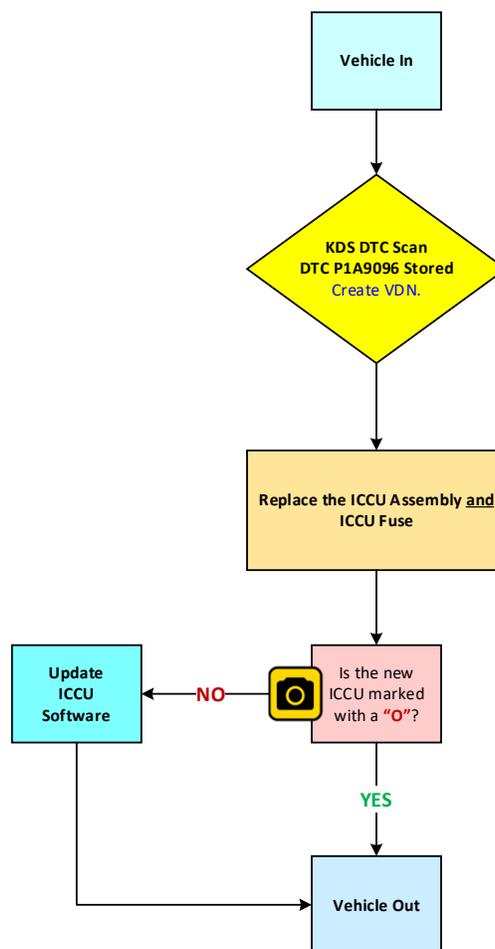
Flowchart:

'Vehicle In' with DTC P1A9096 (after completing SC327 with the latest software)

- If DTC is stored, replace the ICCU Assembly + ICCU Fuse (Page 5)

DTC P1A9096 Stored + ICCU Assembly and ICCU Fuse Replacement**Is the 'new' ICCU Assembly marked with a letter "O"?**

- No - Take a KDS Warranty Attachment photo of ICCU + Update the ICCU software (Pages 3-4)
- Yes - Vehicle OUT

**ⓘ IMPORTANT**

A Vehicle Diagnosis Number (VDN) must be created prior to ICCU replacement. If a VDN is not created, Parts Ordering and Warranty claim submission issues **WILL** occur. Any associated claims for ICCU replacement are subject to Warranty review and chargeback. **Take a KDS Warranty Attachment photo of a new ICCU assembly installed that IS NOT marked with a "O" (page 9, step 21) as the software will need to be upgraded.** The software is pre-installed in ICCU assemblies marked with a "O" only.

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ECU Upgrade Procedure:

To correct this condition, the ECU should be reprogrammed using the KDS download, as described in TSB [SST081](#).

Upgrade Event Name

786.CV/CV eGT ICCU LDC FET Protection Logic Improvement (2nd)*

NOTICE

- Confirm a fully charged battery (12.3 volts or higher is necessary) is used or utilize a fully charged jump starter box connected to the battery.
- **Ensure the KDS is sufficiently charged at 60% or higher prior to reflash.**
- All ECU upgrades must be performed with the ignition set to the 'ON' position unless otherwise stated.
- **Damaged VCI II units should not be used and promptly replaced.**
- Be careful not to disconnect the VCI-II connected to the vehicle during the ECU upgrade procedure.
- **DO NOT start the engine during ECU upgrade.**
- DO NOT turn the ignition key 'OFF' or interrupt the power supply during ECU upgrade.
- **When the ECU upgrade is completed, turn the ignition 'OFF' and wait 10 seconds before starting the engine.**
- ONLY use approved ECU upgrade software designated for the correct application.

IMPORTANT

It is recommended to ALWAYS check the Electronic Parts Catalog (EPC) to locate the ECU Part Number respective to Auto/Manual Mode ROM IDs. DO NOT reference the parts label affixed to the ECU.

NOTICE

If a 'Communication Fail' error notice appears or the upgrade cannot be performed, DO NOT disconnect the KDS/VCI-II. Contact GIT America Help Desk at (888) 542-4371 or Techline.

NOTICE

Before attempting an ECU upgrade on any Kia model, make sure to first determine whether the applicable model is equipped with an immobilizer  (IMMO) security system. Failure to follow proper procedures may cause the PCM to become inoperative after the upgrade and any claims associated with this repair may be subject to chargeback.

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ROM ID INFORMATION TABLE:

Upgrade Event #786

Model	SYSTEM	IMMO		ECU P/No.	ROM ID	
					Previous	New
EV6, EV6 GT (CV)	ICCU	Yes		36401 1XFA0	ECV1E1 IDS51R000 ECV1E1 IDS03R000 ECV1E1 IDS05R000 ECV1E1 IDS07R000 ECV1E1 IDS08R000 ECV1E1 IDS09R000 ECV1E3 IDS10R000 ECV1E3 IDS11R000 ECV1E3 IDS12R000 ECV1E3 IDS13R000	ECV1E3 IDS14R000

To verify the vehicle is affected, be sure to check the Calibration Identification of the vehicle's ECM ROM ID and reference the Information Table as necessary.

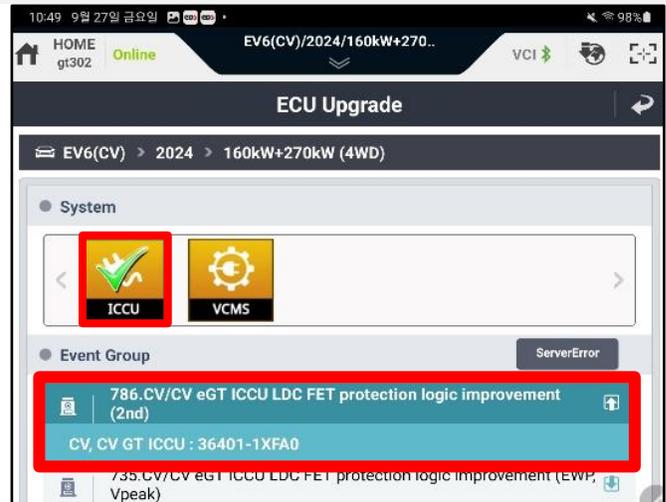
Refer to [TSB SST081](#) for instructions to upgrade the 'ICCU' system:

UPGRADE EVENT:

#786.CV/CV eGT ICCU LDC FET Protection Logic Improvement (2nd)

NOTICE

Prior to performing the ECU upgrade, be sure to check that the KDS is fully charged.



Manual Mode ECU Upgrade Passwords

No.	Menu	Password
786	CV, CV GT ICCU : 36401-1XFA0	1612

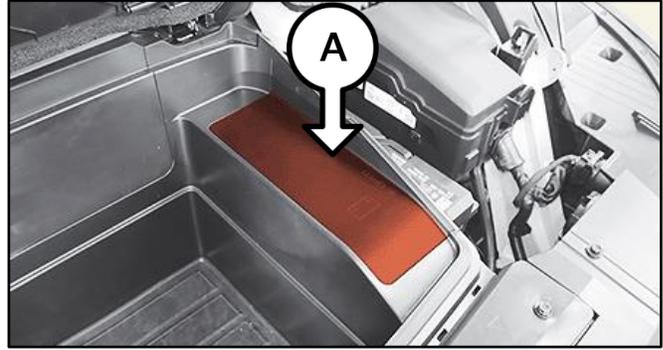


SUBJECT:

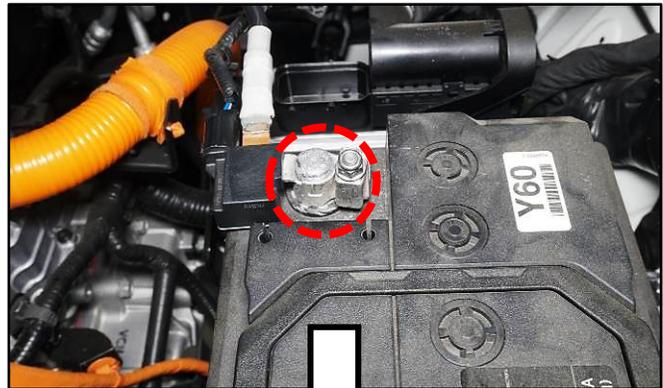
ICCU & FUSE REPLACEMENT (SC327Y)

Replacement Procedure: (ICCU & FUSE)

1. Open the hood and open the auxiliary battery (12V) service cover and fuse (A).



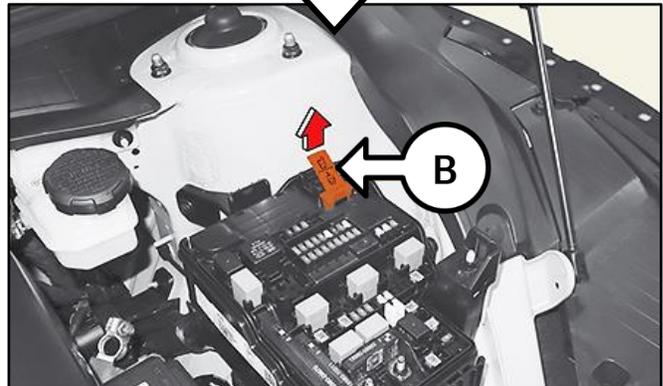
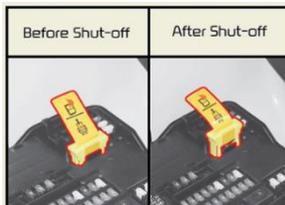
2. Open the hood and disconnect the battery negative (-) post cable.



3. Remove the room junction block cover and disconnect the service interlock connector (B).

NOTICE

It takes at least 5 minutes for capacitor of the high voltage battery system to discharge completely.

**WARNING**

Failure to follow the High Voltage Shut-off Procedure may result in serious electrical injuries.

4. Open the coolant reservoir tank pressure cap (C) to release pressure.

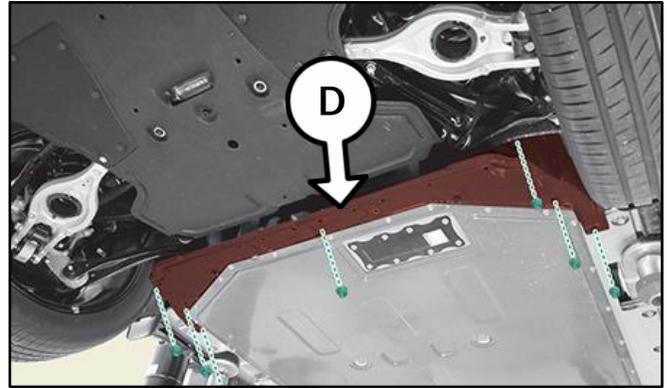


- Remove the rear under cover (D).

Note: Long Range model shown for reference use only. Standard range will appear different.



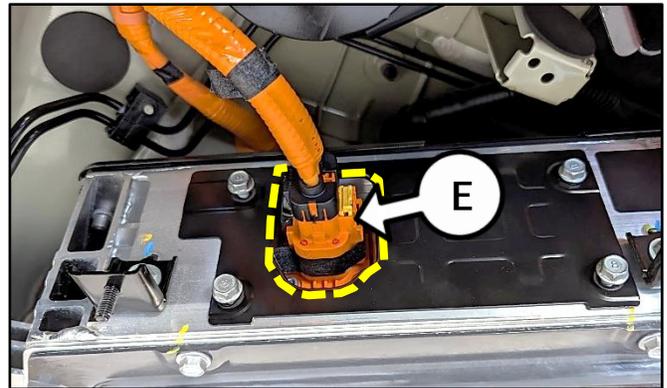
Tightening torque for nuts:
5.8 - 8.7 lb.ft (7.8 - 11.8 N.m)



- Disconnect the ICCU Connector (E).

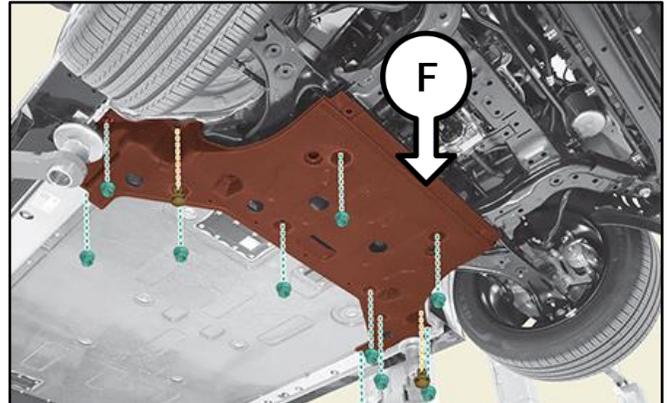
WARNING

Be sure to read and follow the "General Safety Information and Caution" information on KGIS when working with a High Voltage system. Failure to do so can result in serious electrical injuries.



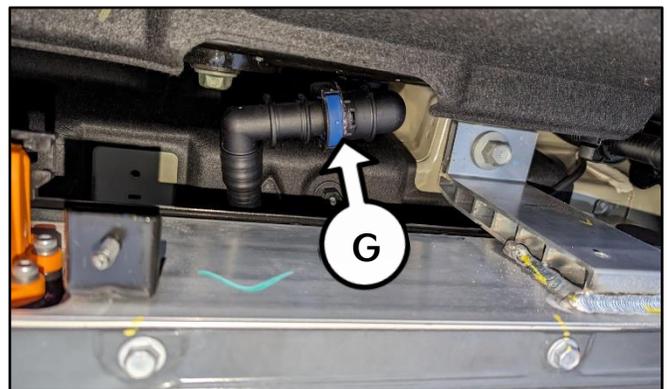
- Remove the front rear under cover (F).

Note: Image shown for reference only. The front under cover does not need to be removed.



Front of Battery

- Disconnect the blue rear coolant hose connector (G).

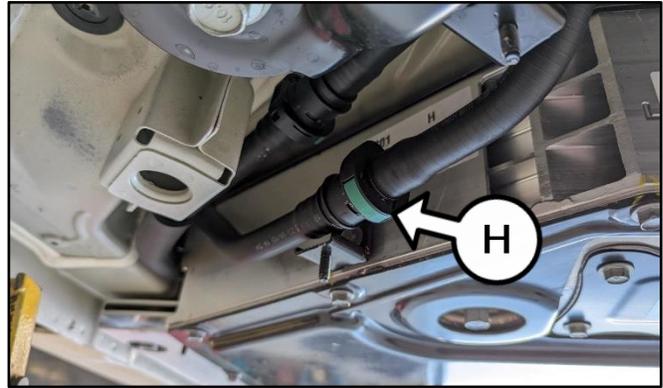


Rear of Battery

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9. Disconnect the front coolant **green** hose connector (H).



Front Right Side of Battery

10. Using shop air, blow out the ICCU coolant from the **blue** rear disconnected coolant hose.

**TECH TIP**

Wearing a rubber glove, create a tight seal using hand when blowing into the **blue** hose connector end.

Note: Use a drain pan to collect the coolant fluid from the front disconnected hose.



11. Remove the rear seat assembly (I) by referring to "Body Interior and Exterior → Rear Seat Assembly → Removal and Installation" in the applicable Shop Manual on KGIS.



12. Remove the left (LH) and right (RH) side rear door scuff trim (J).



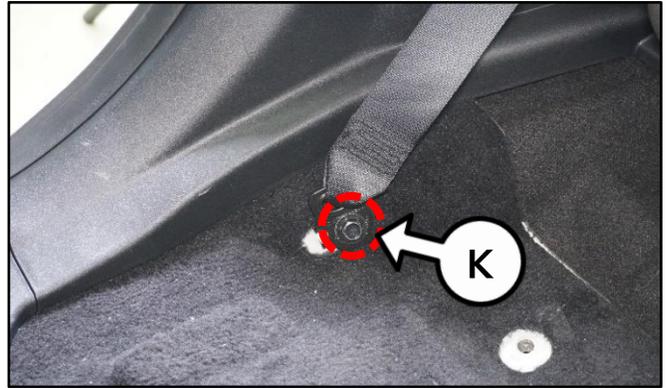
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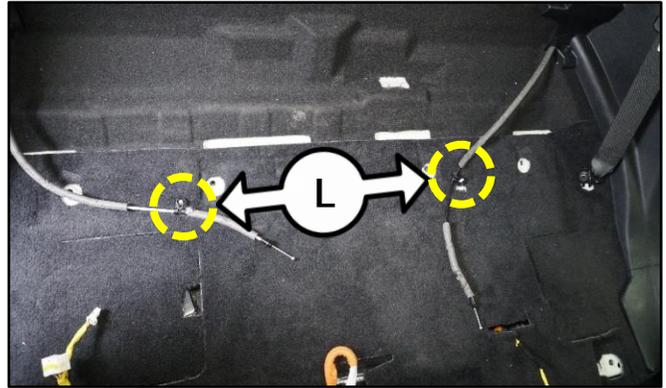
- 13. Remove both (LH and RH) the rear seat belt lower anchor retaining bolts (K).



Tightening torque for bolt (N):
29.7 - 44.1 lb.ft (40.2 - 59.8 N.m)



- 14. Detach the two (2) folding lever cables (L) from the floor carpet.

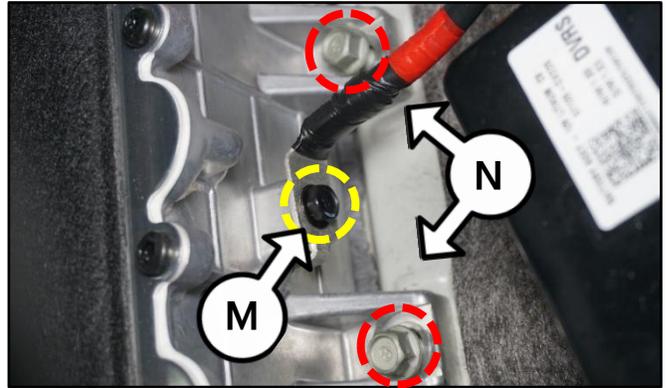


- 15. Disconnect the LDC cable by loosening the retaining bolt (M).

- 16. Remove the two (2) ICCU retaining bolts (N).



Tightening torque for bolt (P):
5.8 - 8.7 lb.ft (7.8 - 11.8 N.m)



- 17. Disconnect the combo charge inlet wire harness connector (O).



SUBJECT:

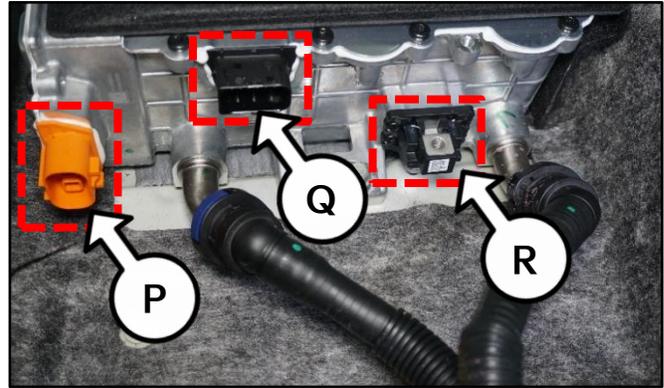
ICCU & FUSE REPLACEMENT (SC327Y)

18. Disconnect the following:

- HV power connector (P)
- ICCU connector (Q)
- LDC positive (+) cable (R)



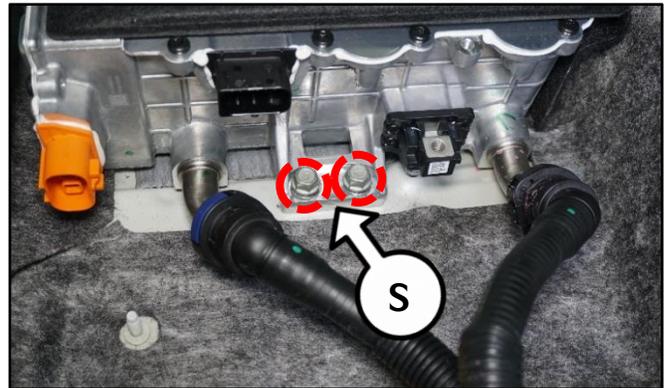
Tightening torque for bolt (U):
5.8 - 7.2 lb.ft (7.8 - 9.8 N.m)



19. Remove the two (2) ICCU assembly retaining bolts (S).

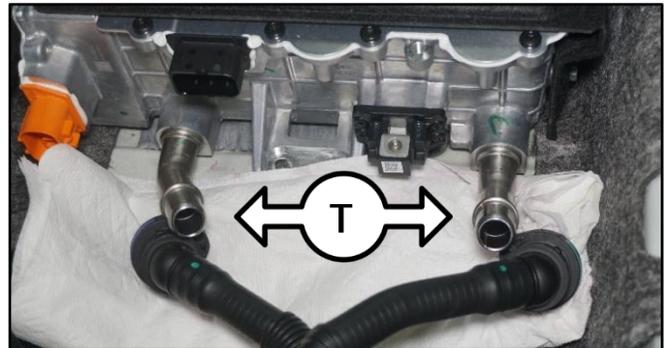


Tightening torque for bolts (V):
5.8 - 8.7 lb.ft (7.8 - 11.8 N.m)



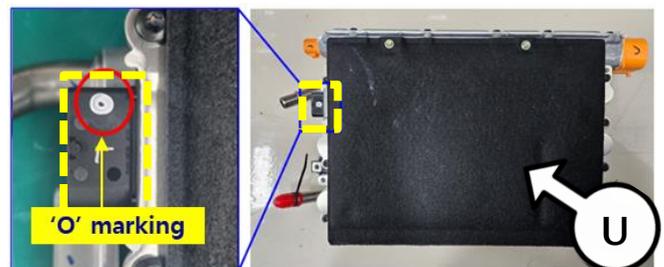
20. Disconnect the two (2) ICCU coolant hoses (T) from the ICCU assembly.

Note: Place an absorbing towel to collect any remaining coolant fluid residue when detaching the coolant hoses.



21. Replace the ICCU assembly (U) with a new part in the reverse order of removal.

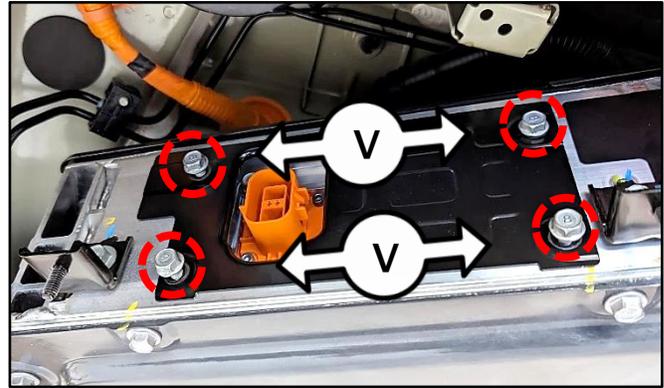
- **If the new ICCU part IS NOT marked with an "O", take a KDS Warranty Attachment photo and submit with claim. The software will need to be installed after replacement.**
- **If the ICCU is marked with an "O", the software was pre-installed.**



22. Remove the four (4) ICCU fuse service cover retaining bolts (V).



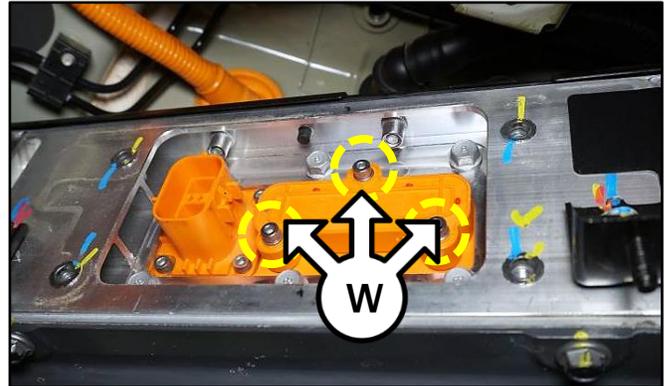
Tightening torque for bolts (F):
5.8 - 8.7 lb.ft (7.8 - 11.8 N.m)



23. Remove the three (3) ICCU fuse cover retaining bolts (W).



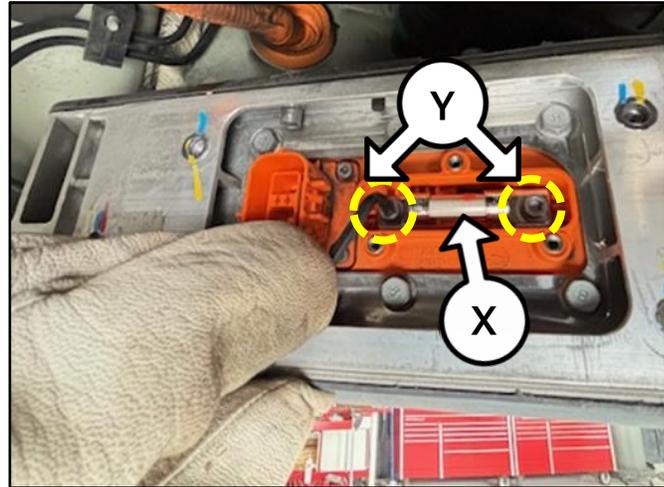
Tightening torque for T3 hex bolts (G):
22.6 - 29.5 lb.in (2.5 - 3.3 N.m)



24. Carefully and gently remove the two (2) ICCU fuse (X) retaining allen head bolts (Y) using a hand tool and replace the ICCU fuse (X) with a new part.



Tightening torque for T5 hex bolts (H):
39.1 -47.7 lb.in (3.3 - 4.0 N.m)



CAUTION

DO NOT use a power tool to remove these bolts. There are two (2) securing nuts inside the battery. If the nuts fall inside the battery, additional time will be required to extract them.

25. Refill the coolant by referring to “Cooling System → Coolant → Motor Coolant (Coolant Refilling and Air Bleeding” in the applicable Shop Manual on KGIS.
26. Confirm normal vehicle operation.

SUBJECT:

ICCU & FUSE REPLACEMENT (SC327Y)**AFFECTED VEHICLE RANGE:**

Model	Production Date Range
EV6, EV6 (CV)	November 17, 2021 to July 22, 2024

REQUIRED TOOL:

Tool Name	Figure	Comments
KDS		Kia Diagnostic System

REQUIRED PART:

Part Name	Part Number	Figure	Qty.
ICCU Assembly	36400 1XFA0AQQK		1
ICCU Fuse	375F2 GIO40QQK	N/A	1
Coolant (Pink)	UM020 CH263	N/A	1

Note: The replacement QQK part numbers will require a VIN entry for parts ordering. **DO NOT** order these parts for stocking purposes, related to this Campaign. Supply is very limited. Until supply stabilizes, please confirm part availability before scheduling customers. Please be sure to expedite warranty claim filing.

WARRANTY INFORMATION:

N Code: N99 C Code: C99

CLAIMS SUBMITTED ON OR BEFORE: 01/15/2026

Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
R	36400 1XFA0	0	(SC327Y) ICCU + Fuse Replacement + ICCU Software Upgrade (Non-"O" marked)	241195R3*	2.1 M/H	36400 1XFA0QQK	1
			375F2 GIO40QQK				
			UM020 CH263				
		1	(SC327Y) ICCU + Fuse Replacement ("O" marked)	241195R4	1.9 M/H	36400 1XFA0QQK	1
			375F2 GIO40QQK				
			UM020 CH263				

Note: Refer to [Warranty Bulletin 2024-69](#) for claim submission procedures. A **Vehicle Diagnosis Number (VDN)** must be created prior to ICCU replacement. *A KDS Warranty Attachment photo of the ICCU NOT marked with an "O" MUST be attached to the claim using KDS Warranty Attachment type 'XX - Other' to claim labor op code 241195R3. When substitute transportation is provided, manually enter sublet code 'X2' for rental expense reimbursement or one roundtrip rideshare expense.

NOTICE

VIN inquiry data for this repair is provided for tracking purposes only. Kia retailers should reference **SC327Y** when accessing the KDealer+ system.

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ICCU & FUSE REPLACEMENT (SC327Y)

WARRANTY INFORMATION:

N Code: N99 C Code: C99

CLAIMS SUBMITTED ON AFTER: 01/16/2026

Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
R	36400 1XFA0	0	(SC327Y) ICCU + Fuse Replacement + ICCU Software Upgrade <i>(Non-"O" marked)</i>	241195R7*	2.1 M/H	36400 1XFA0AQQK	1
			375F2 GI040QQK				
			UM020 CH263				
		1	(SC327Y) ICCU + Fuse Replacement <i>("O" marked)</i>	241195R8	1.9 M/H	36400 1XFA0AQQK	1
			375F2 GI040QQK				
			UM020 CH263				

Note: Refer to [Warranty Bulletin 2024-69](#) for claim submission procedures. A [Vehicle Diagnosis Number \(VDN\)](#) must be created prior to ICCU replacement. *A KDS Warranty Attachment photo of the ICCU NOT marked with an "O" MUST be attached to the claim using KDS Warranty Attachment type 'XX - Other' to claim labor op code 241195R7. When substitute transportation is provided, manually enter sublet code 'X2' for rental expense reimbursement or one roundtrip rideshare expense.

NOTICE

VIN inquiry data for this repair is provided for tracking purposes only. Kia retailers should reference SC327Y when accessing the KDealer+ system.

