



GROUP	MODEL
Voluntary Service Campaign	2024-2026MY EV6 (CV, CVa)
NUMBER	DATE
SC373	August 2026

VOLUNTARY SERVICE CAMPAIGN

SUBJECT:

3-WAY COOLANT VALVE REPLACEMENT (SC373)

This bulletin provides information to replace the 3-way coolant valve. In addition, inspect the 3-way coolant valve harness connector for corrosion, and if necessary, replace the harness connector on certain 2024-2026MY EV6 (CV, CVa) vehicles produced from August 07, 2023 through June 18, 2026. The 3-way coolant valve in the subject vehicles may become damaged and result in a coolant leak. As a result, corrosion may also be present in the 3-way coolant valve harness connector. An inoperative 3-way coolant valve or corrosion within the harness connector may result in reduced Heating, Ventilation, and Air Conditioning (HVAC) performance and/or in the illumination of the "Check electric vehicle system" or "Refill Coolant" warning messages in the instrument cluster. Follow the procedure outlined in this publication to replace the 3-way coolant valve with a new one. In addition, inspect the 3-way coolant valve harness connector for corrosion and, if necessary, replace the harness connector on the applicable vehicle. Before conducting the procedure, verify that the vehicle is included in the list of affected VINs.

DTC Description:

B18AC07 - Cool Valve Fault - 3way - Valve Fault

Model	Production Date Range
EV6 (CV)	August 07, 2023 to April 11, 2025
EV6 (CVa)	TBD

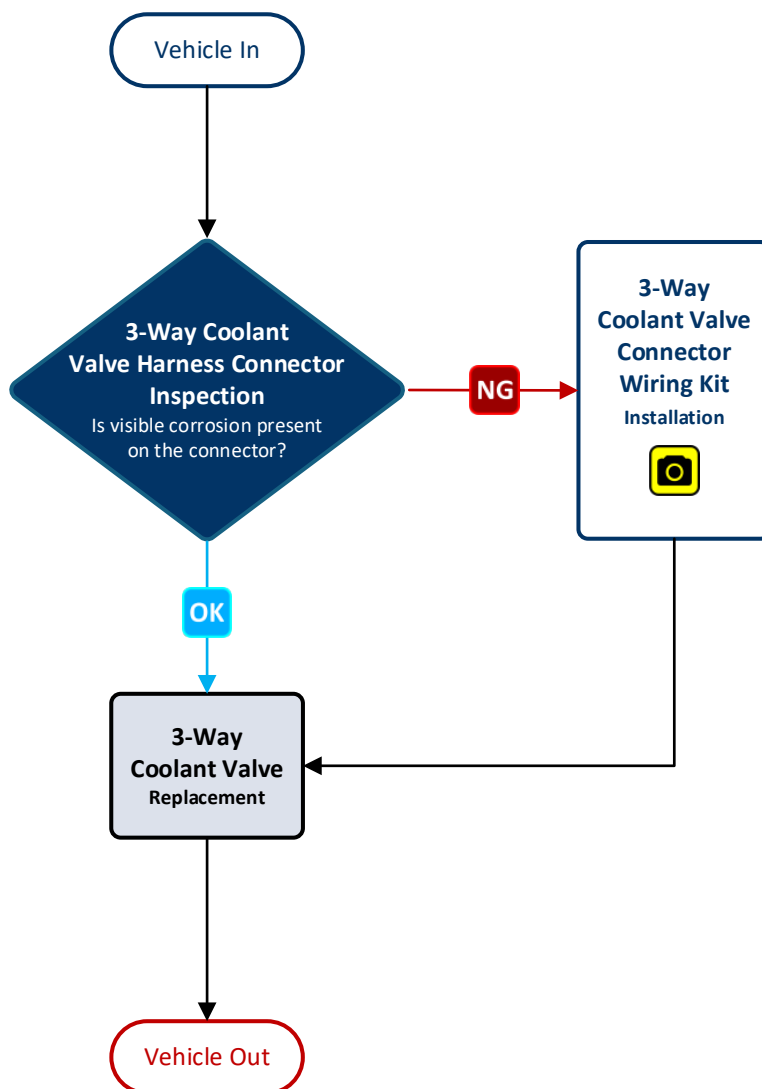
NOTICE

There is no charge to the vehicle owner for this repair.

Repair status for a VIN is provided on KDealer+ (Service → Warranty → Warranty Coverage Inquiry). Not completed Campaign reports are available on KDealer+ (Service → Campaigns → Open Campaign Report), which includes a list of affected vehicles.

This issue number is SC373.

Flowchart:



Note: A KDS Warranty Claim Attachment photo of the '**NG**' 3-Way Coolant Valve Harness Connector condition **MUST** be attached to the claim.

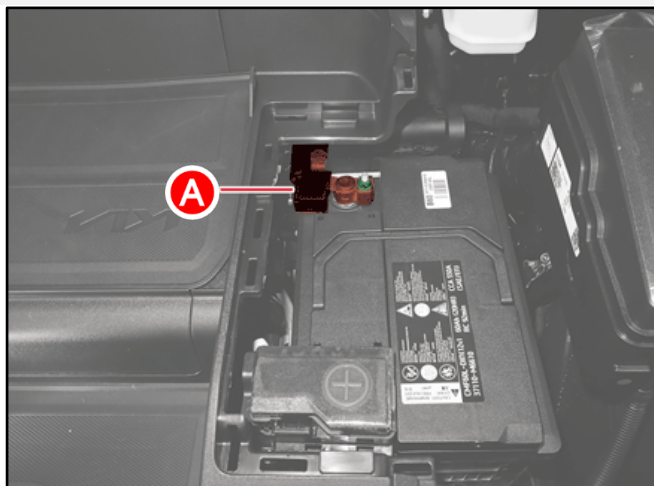
SUBJECT:

3-WAY COOLANT VALVE REPLACEMENT (SC373)**Repair Procedure: (Wiring Kit Replacement)**

1. Disconnect the auxiliary 12V battery negative (-) terminal (A).



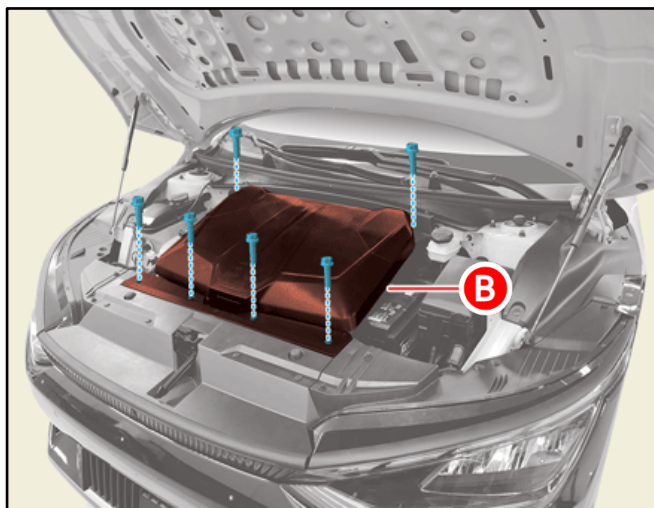
Tightening torque for nut (A):
5.8 - 7.2 lb.ft (7.8 - 9.8 N.m)



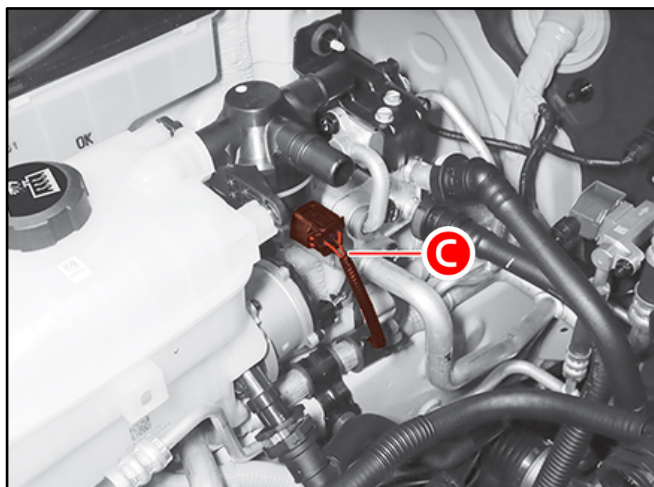
2. Remove the front trunk (B) by referring to "Body (Interior and Exterior) → Body Side Molding → Front Trunk → Removal and Installation" in the applicable Shop Manual on KGIS.



Tightening torque for bolts:
3.5 - 5.3 lb.ft (4.8 - 7.2 N.m)



- 3a. Locate and disconnect the 3-way coolant valve connector (C).

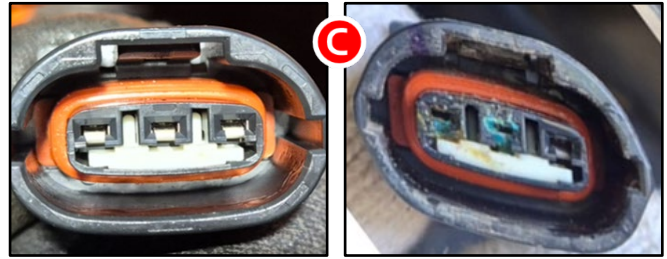


SUBJECT:

3-WAY COOLANT VALVE REPLACEMENT (SC373)

3b. Inspect the 3-way coolant valve connector (C) for corrosion.

- **Corrosion is NOT present (OK)**, then proceed to the 'Replacement Procedure: (3-Way Coolant Valve)' on page 7.
- **Corrosion IS present (NG)**, using KDS Tablet **Warranty Claim Attachment Tab**, take a photo of the NG condition then proceed to step 4a.



OK

NG

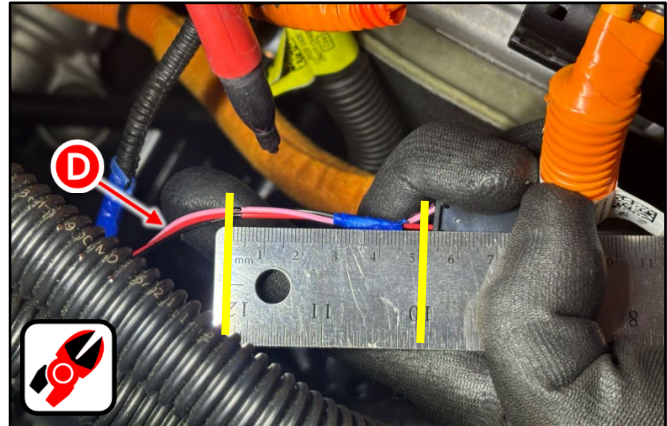


4a. Cut the electrical tape surrounding the harness' outer corrugate/insulation tubing.

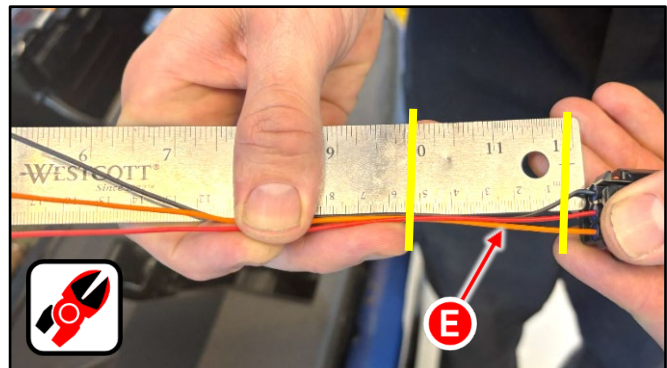
4b. Cut off the exposed outer corrugate/insulation tubing and set to the side. **DO NOT DISCARD.**



5. Measure and cut the vehicle harness (D) 50mm (~2.0" in.) from the 3-way coolant valve connector (C).



6. Measure and cut the harness extension (E) wires 50mm (~2.0" in.) from the connector.



Printed document copy is for reference only; information may be updated at any time. Always refer to KGIS for the latest information.

TSB: SC373 EV6 (CV, CVa) August 2026

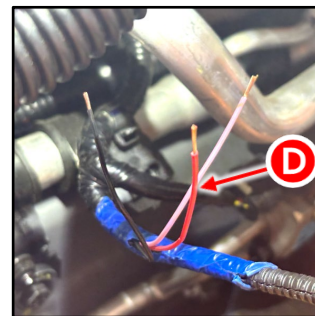
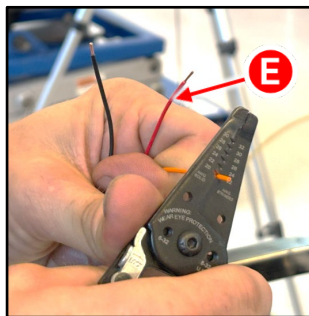
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SUBJECT:

3-WAY COOLANT VALVE REPLACEMENT (SC373)

7. Strip 10mm (~0.4" in.) off each of the three (3) wires from the vehicle harness (D) and the harness extension (E) and then twist the loose wire strands.



8. Insert one (1) piece of heat shrink (F) on each wire of the vehicle harness (D), as shown.

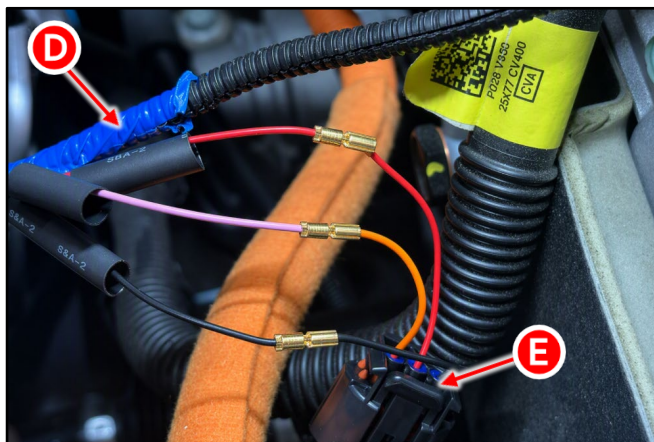


9. Take the new wire harness extension (E), match the corresponding colors and crimp each of the three (3) wires crimp-connectors to the vehicle harness (D).

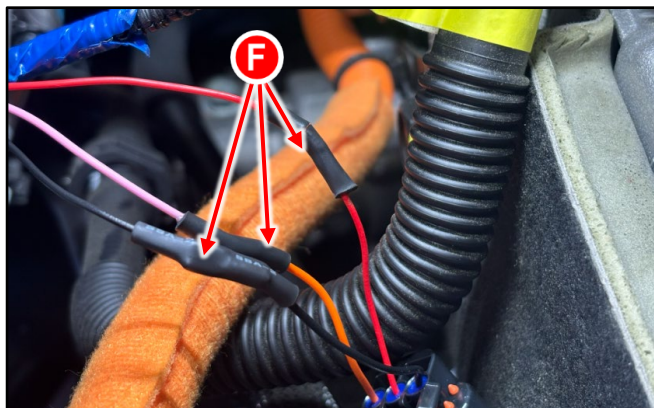
Wire Matching

- Black to Black
- Red to Red
- Orange to Pink

Note: Crimp each butt-connector individually and gently pull on each wire after crimping to ensure it is secured.

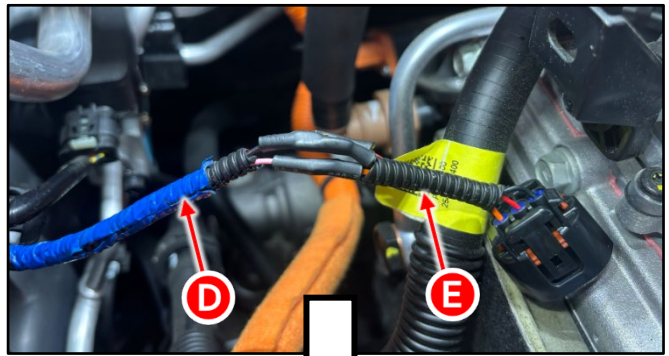


10. Using a heat gun, direct hot air to the heat shrink (F) to allow them to shrink tight for a water-proof seal.



3-WAY COOLANT VALVE REPLACEMENT (SC373)

- 11a. Slide the cut corrugated/insulation tubing from the wire harness (D) from step 5 over the wire at the top of the harness extension (E), as shown.



- 11b. Install the corrugated/insulation tubing provided over the repaired area (crimp connectors).



12. Wrap the loose wiring harness corrugated/insulation tubing with electrical tape.

❶ IMPORTANT

Ensure electrical tape is properly applied to the harness to prevent any moisture and/or foreign materials from contacting the repairs area.



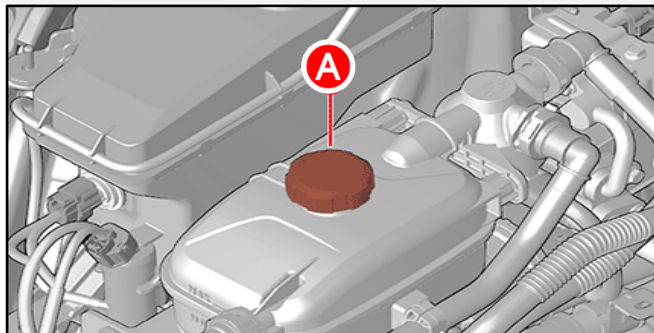
13. Proceed to the 'Replacement Procedure' (3-Way Coolant Valve) on page 7.

SUBJECT:

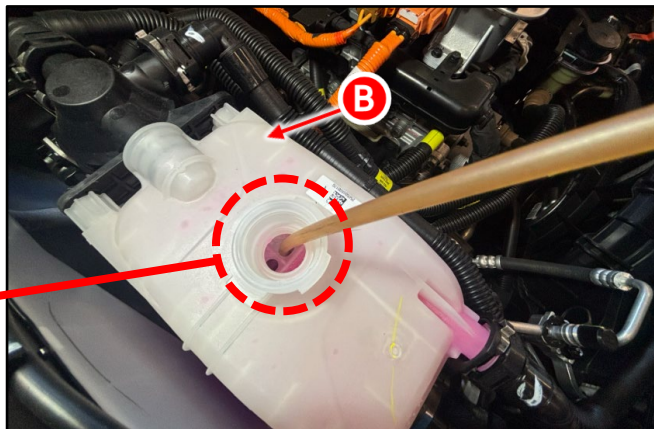
3-WAY COOLANT VALVE REPLACEMENT (SC373)

Replacement Procedure: (3-Way Coolant Valve)

1. Open the reservoir tank pressure cap (A).



2. Using a suction pump, suction the coolant from the rear half of the coolant reservoir (B).

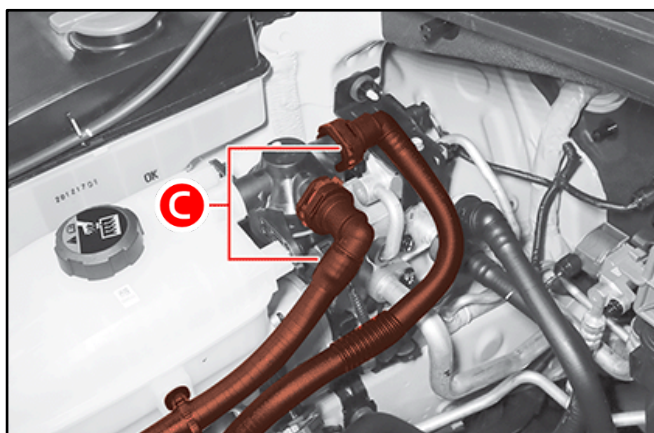


3. Disconnect the 3-way coolant valve hoses (C).

CAUTION

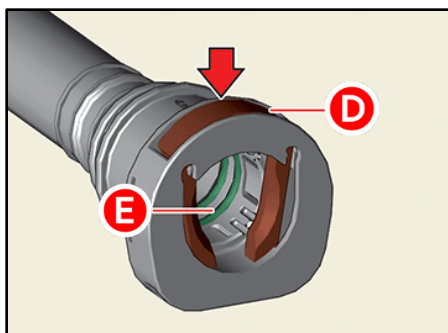
Be careful not to kink either of the 3-way coolant valve hoses (C).

Note: Place some rags or paper towels under the 3-way coolant valve hoses to minimize coolant drippage on the vehicle.



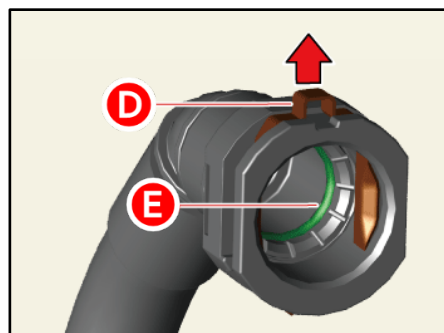
[Type A Connector]

- Press the quick connector clamp (D) down.
- DO NOT** touch the rubber seal (E).



[Type B Connector]

- Pull the quick connector clamp (D).
- DO NOT** touch the rubber seal (E).



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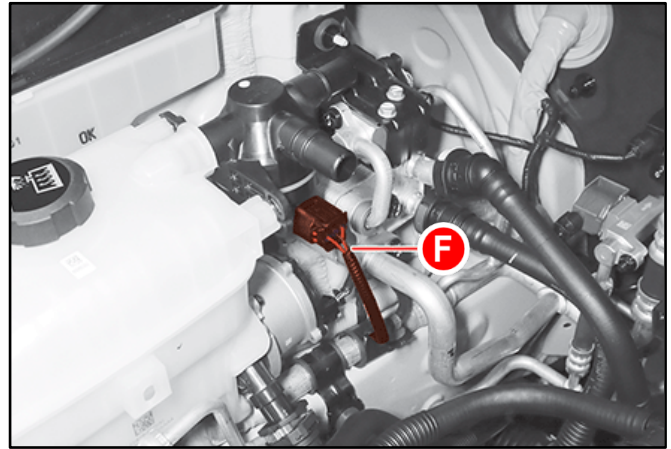
TSB: SC373 EV6 (CV, CVa) August 2026

3-WAY COOLANT VALVE REPLACEMENT (SC373)

4. Disconnect the 3-way coolant valve connector (F).

❗ IMPORTANT

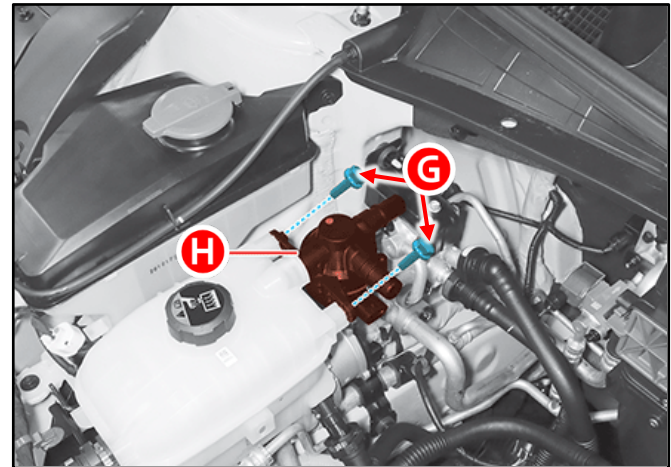
Protect the harness connector (F) by wrapping it in a clean cloth or shop rag and positioning it away from the 3-way coolant valve to prevent coolant contamination of the connector. When reinstalling, use shop air to ensure there is no coolant inside the connector (F).



- 5a. Loosen the two (2) retaining bolts (G) to remove the 3-way coolant valve (H).
- 5b. Apply coolant to the O-ring and install the new 3-way valve (H) by rotating the valve while applying light forward pressure until fully seated in the coolant reservoir.

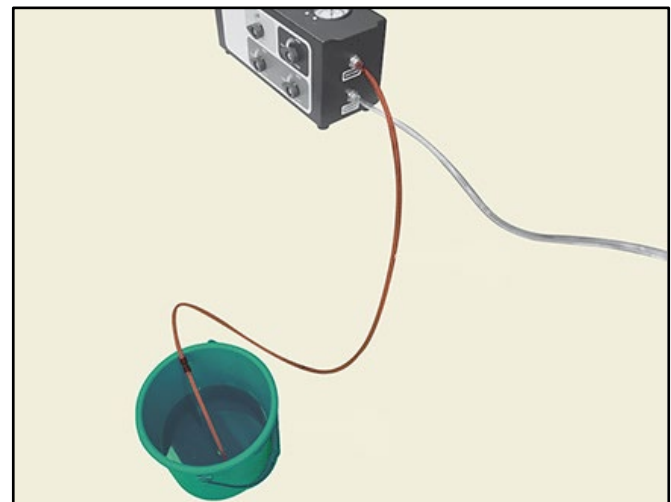


Tightening torque for bolts (G):
5.8 - 8.7 lb.ft (7.8 - 11.8 N.m)



Note: When reconnecting the hoses (C) to the 3-way coolant valve (H), lightly pull on the hoses to confirm they are properly secured.

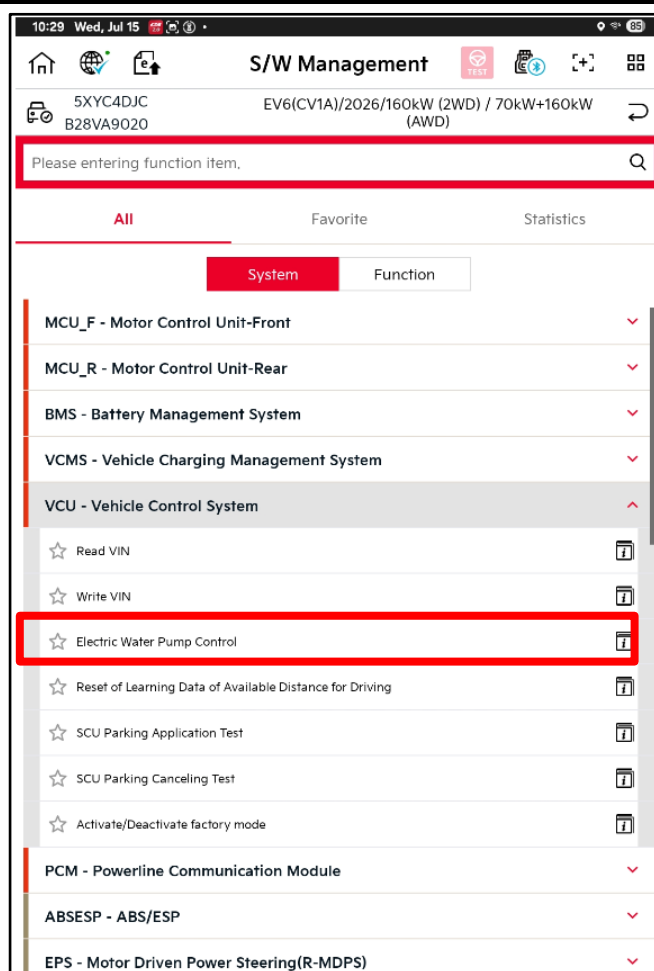
6. Reinstall all removed parts in reverse order of removal.
7. Refill the coolant by referring to "Cooling System → Coolant → Coolant → Coolant Refilling and Air Bleeding" in the applicable Shop Manual on KGIS.



SUBJECT:

3-WAY COOLANT VALVE REPLACEMENT (SC373)

- 8a. Using the KDS, perform the 'Electric Water Pump Control' by selecting "S/W Management → VCU - Vehicle Control System → Electric Water Pump Control".
- 8b. Operate the Electric Water Pump (EWP) for a MAXIMUM of ten (10) minutes.
- 8c. During the bleeding process, if NO air bubbles are visible in the coolant reservoir for one (1) minute or longer, the process is complete.
- 8d. If bubbles ARE visible, inspect the system for leaks and repeat steps 7 - 8c.
9. Confirm normal operation.



SUBJECT:

3-WAY COOLANT VALVE REPLACEMENT (SC373)**AFFECTED VEHICLE RANGE:**

Model	Production Date Range
EV6 (CV)	August 07, 2023 to April 11, 2025
EV6 (CVa)	TBD

REQUIRED TOOL:

Tool Name	Part Number	Figure	Location	Comments
Kia Diagnostic System (KDS)	N/A		SHOP	N/A
Coolant Drain/Injection Equipment	OK253 J2300		Located at O/H 2	
Cap Adapter	OK253 J2320			
Wire Stripper	N/A		Locally Sourced	
Heat Gun	N/A			

REQUIRED PART:

Part Name	Part Number	Figure	Qty.	Comments
3-Way Coolant Valve	25660 CV600QQK		1	N/A
Wiring Repair Kit	91277 CV000QQK		1	CV
	TBD			CVa
Electrical Tape	Locally Sourced		As Needed	Locally Sourced
Heat Self-Soldering or Butt Splice Connectors				Only Required if Provided Crimp Connectors in Wiring Kit are Lost or Damaged
Coolant	UM020 CH263	N/A	1	Pink (pre-mix)

Note: The replacement 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.

SUBJECT:

3-WAY COOLANT VALVE REPLACEMENT (SC373)**WARRANTY INFORMATION:****N Code: N99 C Code: C99**

Model	Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
CV	R	25660 CV600	0	(SC373A) Coolant 3-Way Valve Replacement	260258R0	0.6 M/H	25660 CV600QQK	1
							UM020 CH263	1
				(SC373A) Coolant 3-Way Valve Replacement + Wire Harness Repair	260258R1*	0.9 M/H	25660 CV600QQK	1
							91277 CV000QQK	1
							UM020 CH263	1
CVa	R	TBD	0	(SC373B) TBD	TBD	TBD	TBD	TBD

Note: Refer to [Warranty Bulletin 2026-27](#) for claim submission procedures. When substitute transportation is provided, manually enter sublet code 'X2' for rental expense reimbursement or one roundtrip rideshare expense. *A KDS Warranty Claim Attachment photo of the '**NG**' condition **MUST** be attached to the claim using 'XX - Other' for LOP 260258R1. If a KDS Warranty Claim Attachment photo for the **NG** condition is not created as described in this TSB, Warranty claim submission issues will occur. All claims are subject to review and Warranty chargeback. Use sublet code 'X1' for labor ops 260258R1 with a maximum allowed amount of \$1.50 per vehicle for electrical tape and crimp.

This publication will be updated with parts and claim information for SC373B as soon as it is available.

NOTICE

VIN inquiry data for this repair is provided for tracking purposes only. Kia retailers should reference [SC373](#) when accessing the KDealer+ system.

