Technical Service Bulletin	GROUP HVAC	NUMBER 24-HA-001G
	DATE OCTOBER 2024	MODEL(S) SEE BELOW

SUBJECT: REDUCED HEATER PERFORMANCE – TEMPERATURE CHECK & HEATER CORE REPLACEMENT

Description: Certain Genesis vehicles (listed below) equipped with Lambda-III 3.5T-GDI engines may exhibit reduced heater performance due to engine coolant deposits clogging the heater core. This bulletin provides instructions to verify the concern and to replace the front and rear heater core (if applicable).

Applicable Vehicles below equipped with Lambda-III 3.5T-GDI engines:

- 2021-2024MY G80 (RG3) produced from 07/25/2020 – 12/23/2023
- 2023-2024MY G90 (RS4) produced from 04/21/2022 – 12/19/2023
- 2022-2023MY GV70 (JK1) produced from 03/10/2021 – 05/31/2023
- 2024MY GV70 (JK1A) produced from 05/25/2023 – 12/29/2023
- 2021-2024MY GV80 (JX1) produced from 10/16/2020 – 12/30/2023

Required Equipment/Supplies:

Name	Figure	Remarks
Thermometer		Standard Shop Supply

Examples Include:

- Outset F800 or Taylor Instant-Read Digital Thermometer
- ThermoPro or KIZEN Infrared Thermometer Temperature Gun

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

Parts Information:

Model	Part Name	Part Number	Remarks	Coolant Capacity*
G80 (RG3)	Front Heater Core	97138-T1000QQH	QTY: 1	–
G90 (RS4)		97138-T4000QQH		–
GV70 (JK1, JK1A)		97138-AR000QQH		–
GV80 (JX1) (5-Passenger)		97138-T6000QQH		–
GV80 (JX1) (7-Passenger)		97138-T6300QQH		–
GV80 (JX1) (7-Passenger)	Rear Heater Core	97138-T6500QQH		–
G80 (RG3)	Pink Coolant	00232-19098WAR	Coolant QTY: 6 Quarts	11.6 Quarts
G90 (RS4)				10.4 Quarts
GV70 (JK1, JK1A)				10.2 Quarts
GV80 (JX1) (5-Passenger)				11.6 Quarts
GV80 (JX1) (7-Passenger)			Coolant QTY: 9 Quarts	16.4 Quarts
ALL MODELS	Front Pillar Trim Mounting Clip	85815-C1100	QTY: 2	-
GV80 (JX1) G80 (RG3) G90 (RS4)	Front Pillar Fastener Clip	82315-2W000	QTY: 2	-
GV70 (JK1, JK1A)		82315-2P000		
ALL MODELS	Steering Wheel Lock Bolt	56115-B1000	QTY:1	-
ALL MODELS	Evaporator Core O-Ring	97141-4H900	QTY: 2	

***NOTE:** Do **NOT** use 100% full strength anti-freeze. Prepare coolant mixed with distilled/filtered water to refill the cooling system. (35 to 50% antifreeze, diluted with distilled water)

Warranty Information:

Model	Op. Code	Operation	Op. Time	Causal Part	Nature Code	Cause Code
G80 (RG3), G90 (RS4), GV70 (JK1, JK1A), GV80 (JX1) (5-Passenger)	40D158R0	Front Heater Performance Inspection	0.3 M/H	97138-T1000 (RG3) 97138-T4000 (RS4) 97138-AR000 (JK1 / JK1A) 97138-T6000 (JX1 5P)	IB2	ZZ3
GV80 (JX1) (7-Passenger)	40D158R1	Front and Rear Heater Performance Inspection	0.4 M/H	97138-T6300		
G80 (RG3)	40D158R2	Front Heater Performance Inspection and Front Heater Core Replacement	5.2 M/H	97138-T1000		
G90 (RS4)	40D158R3		5.4 M/H	97138-T4000		
GV70 (JK1)	40D158R4		5.1 M/H	97138-AR000		
GV70 (JK1A)	40D158R5		5.1 M/H	97138-AR000		
GV80 (JX1) (5-Passenger)	40D158R6		5.0 M/H	97138-T6000		
GV80 (JX1) (7-Passenger)	40D158R7	Front and Rear Heater Performance Inspection and Front Heater Core Replacement	5.1 M/H	97138-T6300		
	40D158R8	Front and Rear Heater Performance Inspection and Rear Heater Core Replacement	2.1 M/H	97138-T6500		
	40D158R9	Front and Rear Heater Performance Inspection and Front and Rear Heater Core Replacement	6.1 M/H	97138-T6300		

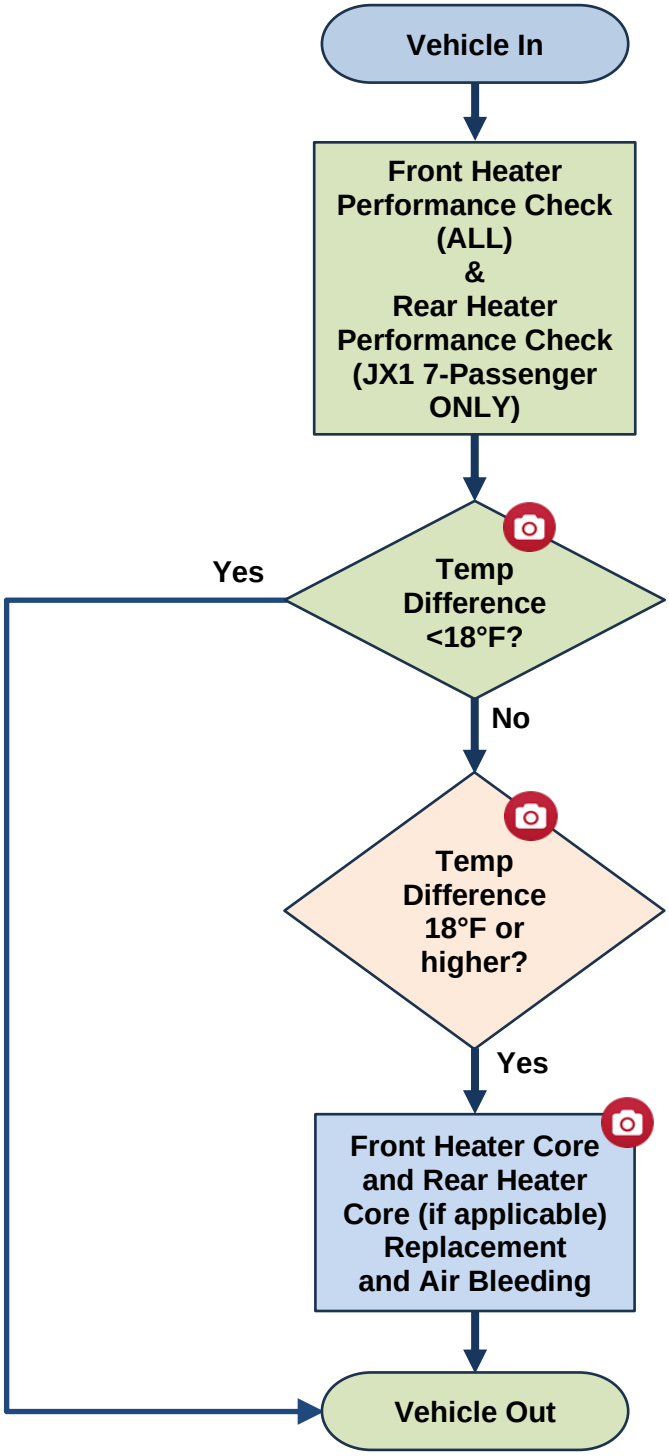
NOTE 1: Submit claim on Claim Entry Screen as “Campaign” type.
NOTE 2: This TSB includes inspection and repair validation photos. Op times include VIN, Mileage, and Repair validation photo(s) as outlined in the Digital Documentation Policy.
NOTE 3: The incident parts are subject to callback through the 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.

Service Procedure:

STUI

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

Service Procedure Workflow

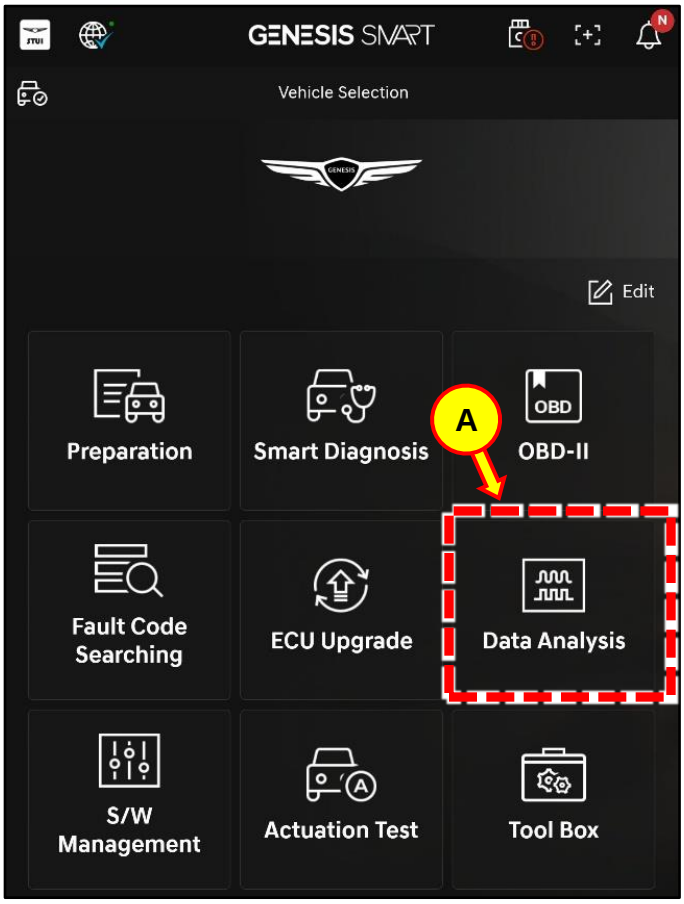


Heater Temperature Difference Check - Preparation

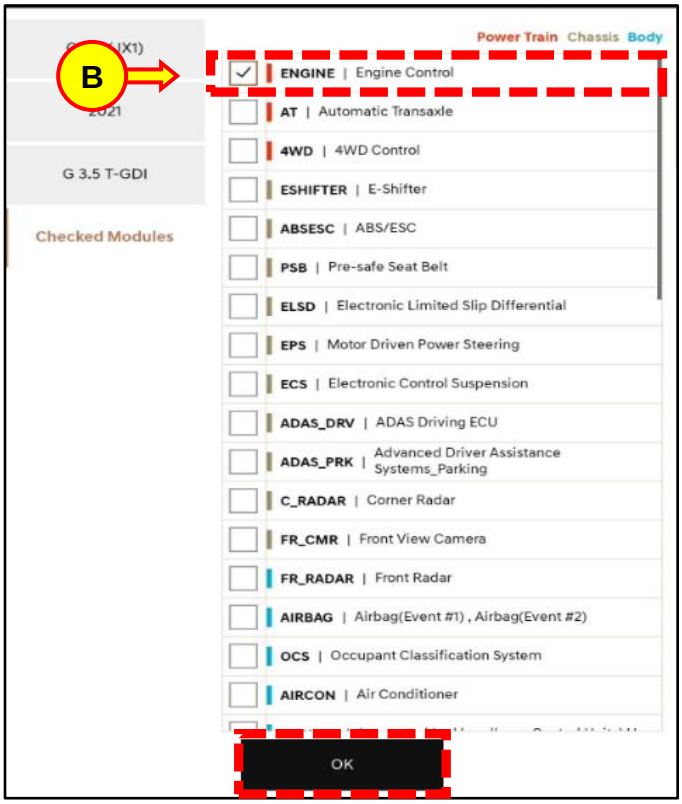
1. Connect GDS.

2. Turn **ON** the IG switch.

3. Select **Data Analysis** (A) on the Genesis Smart home screen.

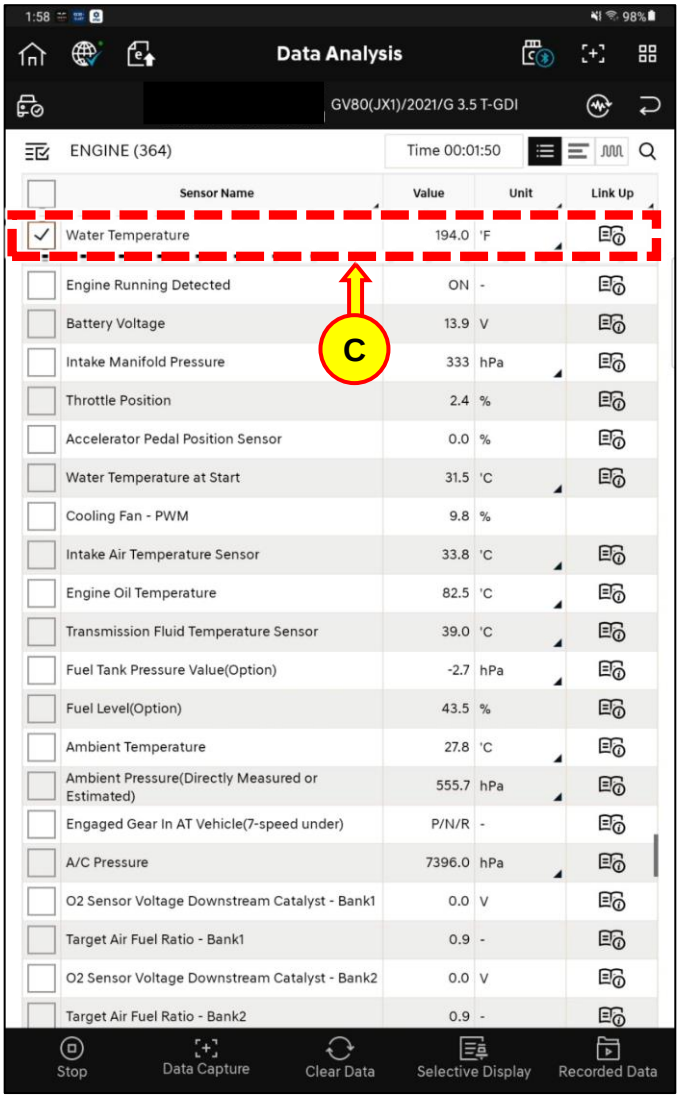


4. Select **ENGINE** (B) and press **OK**.

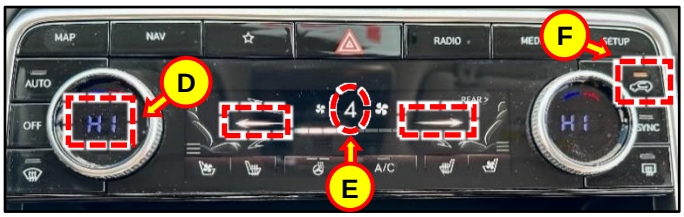


5. Check the **Water Temperature Value** (C).

6. Maintain the engine RPM at 2000-3000 until the Water Temperature Value is 194°F (90°C) or higher.



7. Set HVAC temperature to **HI** (D), fan speed to **4** (E), recirculation mode **ON** (F), and direct the airflow to the face vents.



For GV80 (JX1) 7-Passenger models, do the same settings for the 3rd row.

Heater Temperature Difference Check and Heater Core Replacement -
G80 (RG3), G90 (RS4), GV70 (JK1, JK1A), GV80 (JX1, 5-Passenger)

Information

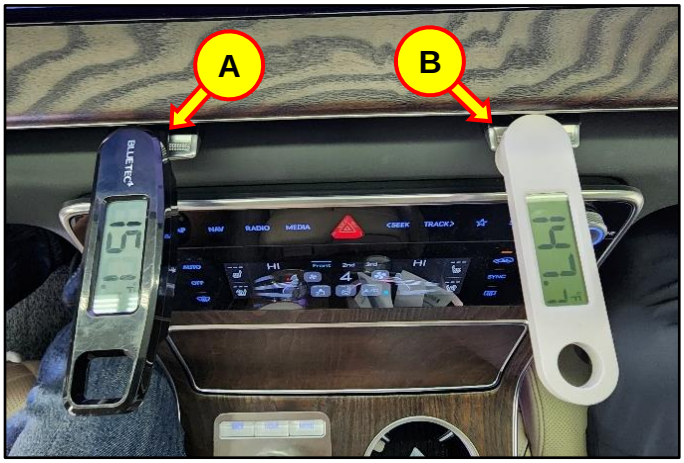
For 7-Passenger GV80 (JX1) vehicles, follow the procedure starting on page 9.

1. Using a thermometer, measure the temperatures at the front center vents on the driver side (A) and passenger side (B).

Information

Allow adequate time for the vent temperatures to stabilize.

Front Center Vents



- If the temperature difference between the front center vents is less than 18°F, then **proceed to step 2** to take a picture of the temperature readings.
  - Use OP Code **40D158R0** to finish this inspection procedure after following step 2.

- If the temperature difference between the front center vents is 18°F or higher, **proceed to step 2** to take a picture of the temperature readings.
  - **Proceed to step 3 for front heater core replacement.**

2.

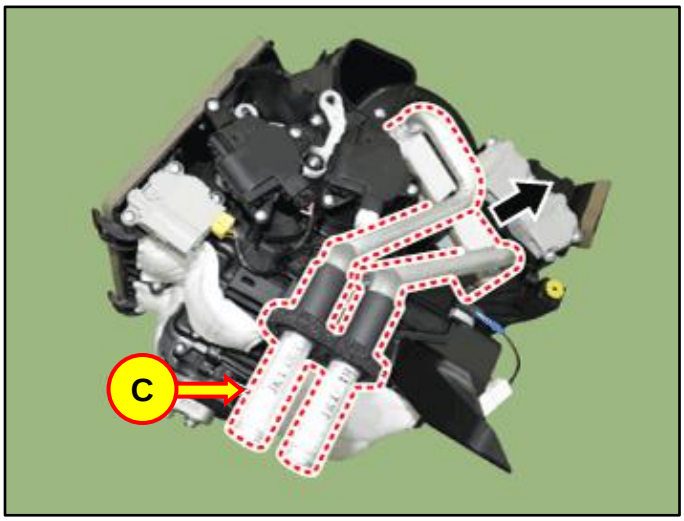
STUI

Using STUI, take a photo clearly showing the temperature readings on both thermometers with the last 6 digits of the VIN and the date of repair on a piece of paper.

Upload the photo to STUI.

3. Replace the front heater core (C).

   Refer to the shop manual:
   - **Heating, Ventilation and Air Conditioning > Heater > Heater Core >**
     - **Replacement** OR
     - **Repair procedures** OR
     - **Removal and Installation**



4. **STUI**

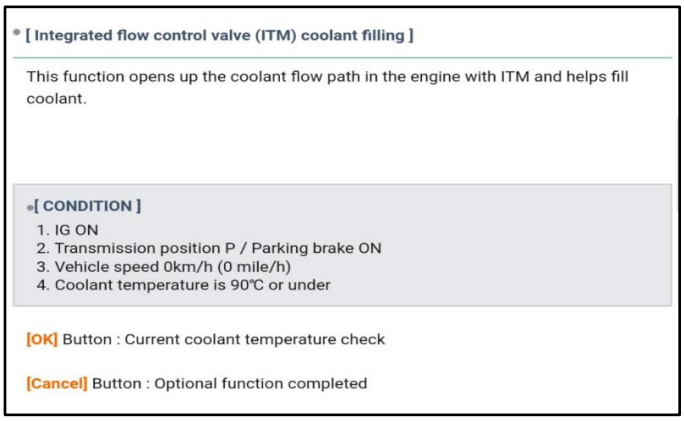
   Using STUI, take a clear photo of the OLD heater core removed next to the NEW heater core on top of the box with the 'QQH' label showing with the last 6 digits of the VIN and the date of repair on a piece of paper.

   Upload the photo to STUI.

5. Reinstall all components in reverse order of removal.

6. Perform air bleeding of the coolant.

   Refer to the shop manual:
   - **Engine Mechanical System > Cooling System > Coolant >**
     - **Replacement** OR
     - **Repair procedures** OR
     - **Refill**



7. Start the engine and confirm proper vehicle operation.

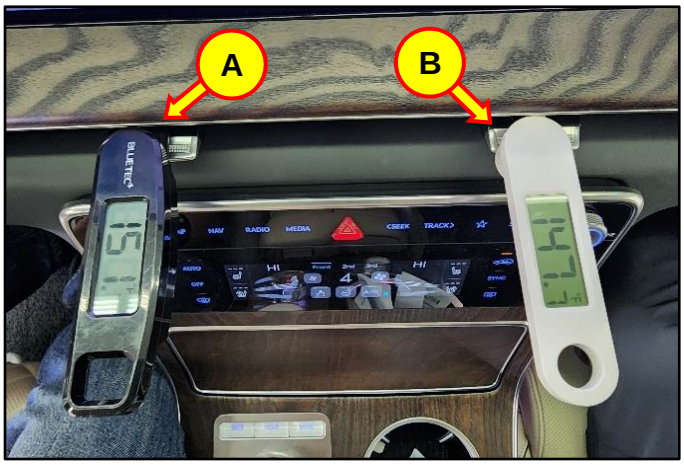
Heater Temperature Difference Check and Heater Core/Rear Heater Core Replacement - GV80 (JX1, 7-Passenger)

1. Using a thermometer, measure the temperatures at the front center vents on the driver side (A) and passenger side (B).

Information

Allow adequate time for the vent temperatures to stabilize.

Front Center Vents



2. Using a thermometer, measure the temperatures at the rear vents in the 3rd row on the LH (C) and RH (D) sides.

- If the temperature difference between the vents in **both** locations – front center and rear/3rd row – is less than 18°F, then **proceed to step 3 and 4** to take a picture of the temperature readings.
  - Use OP Code **40D158R1** to finish this inspection procedure after following step 3 and 4.
- If the temperature difference between the **front** center vents is 18°F or higher, replace the front heater core after following step 3.
  - **Proceed to step 5 for front heater core replacement.**
- If the temperature difference between the **rear** vents is 18°F or higher, replace the rear heater core after following step 4.
  - **Proceed to step 6 for rear heater core replacement.**

Information

If the temperature difference between the vents in both locations is 18°F or higher, replace **both** the front and rear heater core.

Rear/3rd Row Vents

3.

STUI

Using STUI, take a photo clearly showing the temperature readings on both thermometers for the front vents with the last 6 digits of the VIN and the date of repair on a piece of paper.

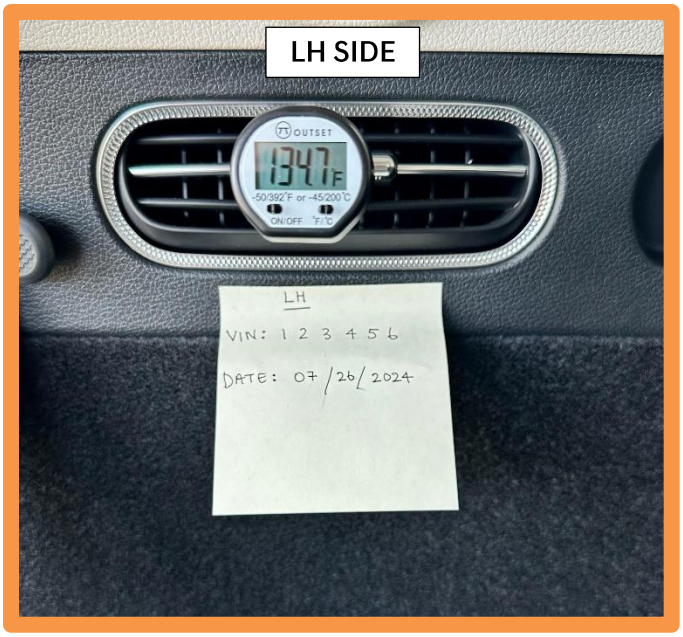
Upload the photo to STUI.

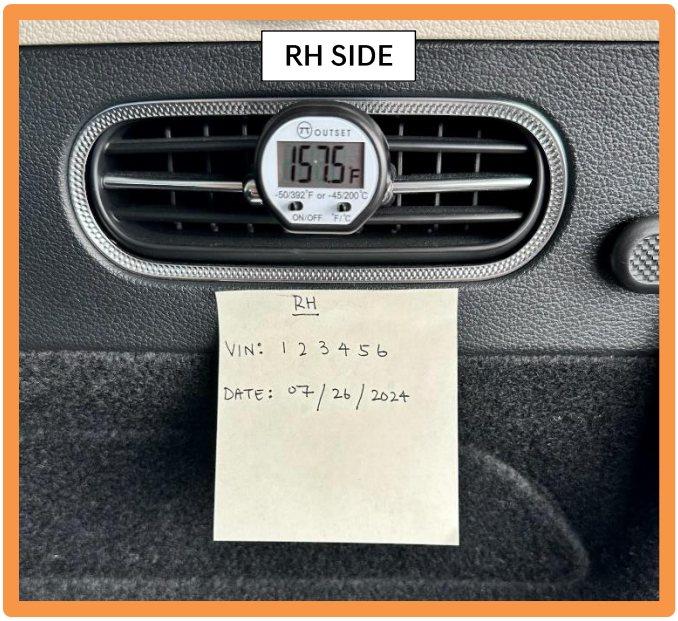
4.

STUI

Using STUI, take a photo clearly showing the temperature readings on both thermometers for the rear vents with either 'LH' or 'RH' notation, the last 6 digits of the VIN and the date of repair on a piece of paper.

Upload the photo to STUI.

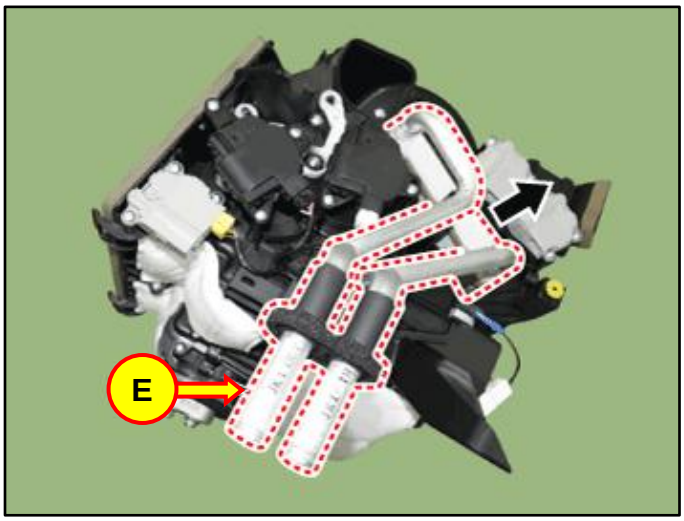




5. Replace the front heater core (E).

Refer to the shop manual:

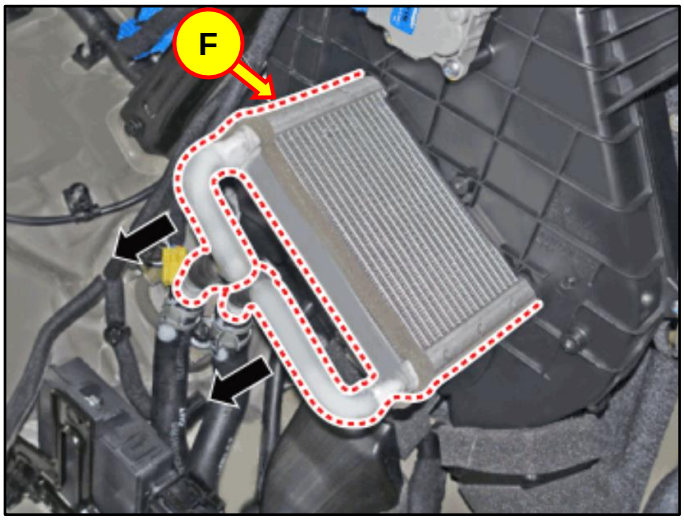
- **Heating, Ventilation and Air Conditioning > Heater > Heater Core > Repair procedures**



6. Replace the rear heater core (F).

Refer to the shop manual:

- **Heating, Ventilation and Air Conditioning > Rear Air Conditioner > Rear Heater Core > Repair Procedures**



Information

To prevent coolant spillage inside the cabin when removing the rear heater core, **place an absorbent material in the surrounding area**. Discard absorbent material appropriately after repairs are completed.

7.

STUI

Using STUI, take a clear photo of the OLD front heater core removed next to the NEW front heater core on top of the box with the 'QQH' label showing with the last 6 digits of the VIN, 'Front' notation on the top, and the date of repair on a piece of paper.

Upload the photo to STUI.

8.

STUI

Using STUI, take a clear photo of the OLD rear heater core removed next to the NEW rear heater core on top of the box with the 'QQH' label showing with the last 6 digits of the VIN, 'Rear' notation on the top, and the date of repair on a piece of paper.

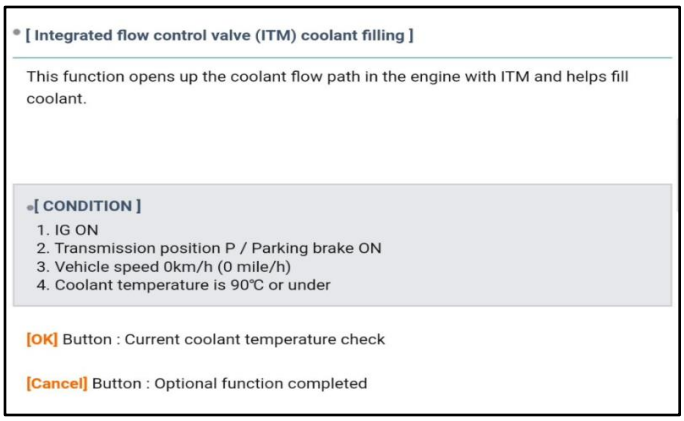
Upload the photo to STUI.

9. Reinstall all components in reverse order of removal.

10. Perform air bleeding of the coolant.

Refer to the shop manual:

- **Engine Mechanical System > Cooling System > Coolant > Repair procedures**



11. Start the engine and confirm proper vehicle operation.