

Technical Service Bulletin

Topic	87 Uneven air distribution, uneven heating/cooling output at vents B109209, B174F09, B109009, B116909, B108C09, B10B709
Market area	United States 444 Volkswagen of America, Inc. (6444)
Brand	Audi
Transaction No.	2070449/3
Level	EH
Status	Released for publishing
Release date	May 6, 2025

Diagnostic trouble codes

Diagnostic address	Diagnostic trouble code	Fault symptom	Storage state
0008 - HVAC electronics	B109209: Recirculation flap motor Component malfunction		static
0008 - HVAC electronics	B10C909: Left side vent motor Component malfunction		Intermittent
0008 - HVAC electronics	B109209: Recirculation flap motor Component malfunction		Intermittent
0008 - HVAC electronics	B10C909: Left side vent motor Component malfunction		static
0008 - HVAC electronics	B174F09: Right rear air door motor Component malfunction		Intermittent
0008 - HVAC electronics	B174F09: Right rear air door motor Component malfunction		static
0008 - HVAC electronics	B173D09: Right footwell flap motor Component malfunction		Intermittent
0008 - HVAC electronics	B173D09: Right footwell flap motor Component malfunction		static
0008 - HVAC electronics	B10CA09: Right side vent motor Component malfunction		Intermittent
0008 - HVAC electronics	B10CA09: Right side vent motor Component malfunction		static
0008 - HVAC electronics	B109009: Defroster flap motor Component malfunction		Intermittent
0008 - HVAC electronics	B109009: Defroster flap motor Component malfunction		static
0008 - HVAC electronics	B10D909: Left footwell temperature door motor Component malfunction		Intermittent
0008 - HVAC electronics	B10D909: Left footwell temperature door motor Component malfunction		static
0008 - HVAC electronics	B174E09: Left rear air door motor Component malfunction		Intermittent

Diagnostic address	Diagnostic trouble code	Fault symptom	Storage state
0008 - HVAC electronics	B174E09: Left rear air door motor Component malfunction		static
0008 - HVAC electronics	B116909: Left rear temperature door motor Component malfunction		Intermittent
0008 - HVAC electronics	B116909: Left rear temperature door motor Component malfunction		static
0008 - HVAC electronics	B108C09: Left temperature flap positioning motor Component malfunction		Intermittent
0008 - HVAC electronics	B108C09: Left temperature flap positioning motor Component malfunction		static
0008 - HVAC electronics	B116A09: Right rear temperature door motor Component malfunction		Intermittent
0008 - HVAC electronics	B116A09: Right rear temperature door motor Component malfunction		static
0008 - HVAC electronics	B108D09: Right temperature flap positioning motor Component malfunction		Intermittent
0008 - HVAC electronics	B108D09: Right temperature flap positioning motor Component malfunction		static
0008 - HVAC electronics	B10B709: Airflow door motor Component malfunction		Intermittent
0008 - HVAC electronics	B10B709: Airflow door motor Component malfunction		static
0008 - HVAC electronics	B174A09: Left center indirect ventilation door motor Component malfunction		Intermittent
0008 - HVAC electronics	B174A09: Left center indirect ventilation door motor Component malfunction		static

New customer code

Object of complaint	Complaint type	Position
climate control -> heating, cooling -> manual heating	functionality -> operation sequence incorrect	
climate control -> ventilation, air distribution -> air distribution control	functionality -> not adjustable	
climate control -> ventilation, air distribution -> air distribution control	functionality -> no function	
climate control -> heating, cooling -> automatic climate control mode (AUTO)	functionality -> misfire	
climate control -> heating, cooling -> climate control unit heat output	functionality -> irregular	
climate control -> heating, cooling -> manual climate control mode	functionality -> operation sequence incorrect	
climate control -> heating, cooling -> climate control unit cooling output	functionality -> irregular	
vehicle service -> inspection, maintenance -> maintenance table -> scheduled maintenance service	service: process -> with complaint confirmation	
assistance systems, comfort controls -> vehicle setup -> vehicle setup switch	functionality -> too difficult to move	
assistance systems, comfort controls -> vehicle setup -> vehicle setup switch	functionality -> no function	
climate control -> ventilation, air distribution -> ventilation with fresh air blower -> ventilation with fresh air blower level 1	functionality -> no function	

Object of complaint	Complaint type	Position
climate control -> ventilation, air distribution -> ventilation with fresh air blower -> ventilation with fresh air blower level 3	functionality -> no function	
climate control -> ventilation, air distribution -> ventilation with fresh air blower -> ventilation with fresh air blower level 5	component, automotive fluids -> too little	
climate control -> air distribution, filtration, fans -> side window defroster vent	component, automotive fluids -> damaged	left

Vehicle data

e-tron GT, RS e-tron GT

Sales types

Type	MY	Brand	Designation	Engine code	Gearbox code	Final drive code
F8*	2022	A		*	*	*
F8*	2023	A		*	*	*
F8*	2024	A		*	*	*

Control units

Diagnostic address	Software part number	Software version	Hardware part number	Hardware version
0008 - HVAC electronics	*4J3*.907.040*	0515	*4J3*.907.040*	H52
0008 - HVAC electronics	*4J3*.907.040*	0525	*4J3*.907.040*	H52
0008 - HVAC electronics	*4J3*.907.040*	0710	*4J3*.907.040*	H52

Documents

Document name
master.xml
attachment3.jpg
attachment4.gif
vehicle_data_master.doc

Condition

REVISION HISTORY		
Revision	Date	Purpose
3	-	Revised title (Updated text) Revised header (Updated model codes) Revised <i>Condition</i> (Updated text) Revised <i>Technical Background</i> (Updated text) Revised <i>Production Solution</i> (Updated text) Revised <i>Service</i> (Updated text) Revised <i>Required Parts and Tools</i> (Remove table and image). Revised <i>Warranty</i> (Updated labor operations)
2	12/18/2023	Revised header (Add Model Year 2022)
1	05/30/2023	Initial publication

Customer states:

The customer complains about the following vehicle behavior:

- Uneven heating output
- Uneven cooling output
- Vehicle cools instead of heating
- Uneven temperatures at vents
- Air conditioning does not regulate correctly

Workshop findings:

The complaint can be reproduced and one or more event memories relating to the control motors are logged in the **control unit for air conditioner/heater electronics (diagnostic address 0008)**.

Technical Background

Software issue in control unit for air conditioner.

The control motor runs past its end stop.

Production Solution

Not applicable.

Service

Replace the affected control motor.

Then run the **SVM code 08A033**.

1. After the update, the control door motor end stop adaptation must be performed using the function “Addressing the A/C system actuators” in GFF.

 **CAUTION**

To prevent the high-voltage battery from charging during the software update, the high-voltage charging cable on vehicles with high-voltage components must be unplugged BEFORE the SVM code is entered.

SVM Update Instructions

1. Follow all instructions in TSB 2011732: *00 Software Version Management (SVM), operating instructions*.
2. Update the A/C control module, J301 (address word 0008) using the SVM action code as listed in the table below, if necessary:

Model	Old Software Part Number	Old Software Version	New Software Part Number (or higher)	New Software Version (or higher)	SVM Code Input
e-tron GT, and RS e-tron GT	4J3907040*	0525	4J3907040*	0710	08A033

Warranty

Claim Type:	• If the vehicle is outside of any warranty, this Technical Service Bulletin is informational only.		
Service Number:	8720		
Damage Code:	0040		
Labor Operations:	Positioning motor remove and reinstall	8720 19XX	See SRT with associated operations
	Software Update (Includes checking for DTCs)	0151 0000	Time stated on the diagnostic protocol
	Charge battery	2706 8950	See SRT with associated operations
Claim Comment:	As per TSB 2070449/3		

All warranty claims submitted for payment must be in accordance with the *Audi Warranty Policies and Procedures Manual*. Claims are subject to review or audit by Audi Warranty.

Additional Information

All part and service references provided in this TSB (**2070449**) are subject to change and/or removal. Always check with your Parts Department and/or ETKA for the latest information and parts bulletins. Please check the Repair Manual for fasteners, bolts, nuts, and screws that require replacement during the repair.

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