

Technical Service Bulletin

Topic	87 Air conditioner does not work, no cooling output - P053000, P251500 stored in C5
Market area	United States 444 Volkswagen of America, Inc. (6444)
Brand	Audi
Transaction No.	2068460/7
Level	EH
Status	Released for publishing
Release date	Sep 12, 2025

Diagnostic trouble codes

Diagnostic address	Diagnostic trouble code	Fault symptom	Storage state
00C5 - Thermal management	P251500: A/C Refrigerant Pressure Sensor "B" Circuit		static
00C5 - Thermal management	P251500: A/C Refrigerant Pressure Sensor "B" Circuit		Intermittent
00C5 - Thermal management	P053000: A/C Refrigerant Pressure Sensor "A" Circuit		static
00C5 - Thermal management	P053000: A/C Refrigerant Pressure Sensor "A" Circuit		Intermittent

New customer code

Object of complaint	Complaint type	Position
climate control -> cooling -> condenser	component, automotive fluids -> damaged	
climate control -> parking heating, parking cooling -> switch on parking cooling	functionality -> cannot be switched on/activated	
climate control -> heating, cooling -> switching A/C system on/off (ECO, AC)	functionality -> switches off by itself	
climate control -> heating, cooling -> MMI A/C status display	functionality -> gives incorrect reading	rear
climate control -> heating, cooling -> automatic climate control mode (AUTO)	functionality -> switches off by itself	
climate control -> heating, cooling -> climate control unit cooling output	functionality -> no function	
climate control -> operation, climate control -> display control head for A/C system -> climate control operating unit temperature + button	component, automotive fluids -> damaged	
information, navigation, communication, entertainment -> controlling infotainment with buttons, controls, screen -> select menu item -> select menu item with button	functionality -> no function	
power, vehicle electrical system, data transfer -> databus systems -> diagnostic connector	component, automotive fluids -> missing	
climate control -> heating, cooling -> automatic climate control mode (AUTO)	functionality -> cannot be activated	

Object of complaint	Complaint type	Position
engine -> cooling, lubrication -> engine coolant temperature regulation	functionality -> irregular	
assistance systems, comfort controls -> storing settings, personalization -> climate control system adjustment memory	electrical -> leakage current/current draw increased	
climate control -> heating, cooling -> manual climate control mode	functionality -> no function	
climate control -> operation, climate control -> display control head for A/C system	functionality -> no function	
assistance systems, comfort controls -> storing settings, personalization -> climate control system adjustment memory	functionality -> cannot be saved	
climate control -> heating, cooling -> MMI A/C status display	functionality -> gives incorrect reading	front
climate control -> ventilation, air distribution -> ventilation with fresh air blower -> ventilation with fresh air blower level 2	functionality -> no function	
climate control -> ventilation, air distribution -> ventilation with fresh air blower -> ventilation with fresh air blower level 1	component, automotive fluids -> too little	
climate control -> parking heating, parking cooling -> switching auxiliary heater on	functionality -> cannot be switched on/activated	
climate control -> parking heating, parking cooling -> switch on parking cooling	functionality -> switches off by itself	
climate control -> heating, cooling -> switching A/C system on/off (ECO, AC)	functionality -> cannot be switched on/activated	
climate control -> heating, cooling -> automatic climate control mode (AUTO)	functionality -> misfire	
climate control -> heating, cooling -> climate control unit cooling output	component, automotive fluids -> too little	

Vehicle data

Sales types

Type	MY	Brand	Designation	Engine code	Gearbox code	Final drive code
4K*	2020	A		*	*	*
4K*	2021	A		*	*	*
4K*	2022	A		*	*	*
4N*	2020	A		*	*	*
4N*	2021	A		*	*	*
4N*	2022	A		*	*	*
FY*	2020	A		*	*	*
FY*	2021	A		*	*	*
FY*	2022	A		*	*	*

PR numbers

PR numbers
? :with 0K3

Audi e-tron, e-tron GT

Sales types

Type	MY	Brand	Designation	Engine code	Gearbox code	Final drive code
F8*	2022	A		*	*	*
GE*	2020	A		*	*	*
GE*	2021	A		*	*	*
GE*	2022	A		*	*	*

Audi Q4 e-tron

Sales types

Type	MY	Brand	Designation	Engine code	Gearbox code	Final drive code
F4*	2022	A		*	*	*

PR numbers

PR numbers
?:with KK3

Documents

Document name
master.xml
attachment1.gif
attachment2.gif
attachment3.jpg

Condition

REVISION HISTORY		
Revision	Date	Purpose
7	-	Revised title (Updated text) Revised header (Added PR criteria) 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>Warranty</i> (Updated labor operations)
6	05/10/2024	Revised <i>Service</i> (Add statement regarding sensor interchangeability) Revised <i>Warranty</i> (Corrected labor operations)
5	10/02/2023	Revised <i>Technical Background</i> (Corrected component designation) Revised <i>Service</i> (Corrected component designation) Revised <i>Warranty</i> (Corrected SRTs)

Customer states:

The air conditioner is not working at all and/or the cooling output is strongly reduced.

Workshop findings:

The workshop can reproduce the fault and finds either one or both of the following event memory entries in the thermal management system (diagnostic address 00C5, Audi Q4 diagnostic address 0008):

- **DTC P053000** – A/C Refrigerant Pressure Sensor "A" Circuit.
- **DTC P251500** – A/C Pressure/Temperature Sensor 2, electrical malfunction.

Technical Background

Hardware issue with pressure sensor.

Production Solution

Not applicable.

Service

Please replace all pressure sensors in the air conditioning circuit.

Model	Quantity Sensors	Position
AU316 (Q4 e-tron) – F4	1	1x suction side
AU426 (Q5) – FY	2	1x high-pressure side 1x suction side
AU513 (e-tron Sportback) – GE	2	
AU516 (e-tron) – GE	2	
AU536 (Q7/Q8) – 4M	2	
AU581 (A6 Sedan) – 4A	2	
AU582 (A6 Avant) – 4A	2	
AU583 (A7) – 4K	2	
AU651 (A8) – 4N	2	1x high-pressure side 2x suction side
AU531 (e-tron GT) – F8	3	

When performing the work, please make sure that a pressure sensor was not previously replaced. This can be seen by the following markings on the sensor:



Figure 1. Manufacture dates and serial numbers on sensor.

- Sensors which have previously been replaced can be recognized by the following criteria:
- Green dot on the plastic part (not always present, depending on the production date of the sensor)
- Laser marking on the aluminum part
- Production date of sensor >3121 (31 = week / 21 = year of manufacture)
- Component already has index E and the markings described



If index E can no longer be ordered from the replacement parts warehouse, sensors with index J are available. In this case, please note that the two sensors are not compatible. If a sensor is replaced with an index J version, all other sensors in the affected vehicle must also be replaced with an index J sensor. Sensor E must be ordered if it is in the replacement parts warehouse.

Warranty

Claim Type:	If the vehicle is outside any warranty, this Technical Service Bulletin is informational only.		
Service Number:	8757		
Damage Code:	0040		
Labor Operations:	A6 / A7:		
	Pressure switches (both) remove and reinstall	8709 2050	See SRT with associated operations
	Refrigerant drain and fill	8703 1700	See SRT with associated operations
	Q7 / Q8:		
	Pressure switches (both) remove and reinstall	8757 2093	See SRT with associated operations
	Refrigerant drain and fill	8703 1700	See SRT with associated operations
	A8:		
	Pressure switch (G395) remove and reinstall	8757 1950	See SRT with associated operations
	Pressure switch (G826) remove and reinstall	8764 1950	See SRT with associated operations
	Refrigerant drain and fill	8703 1700	See SRT with associated operations
	e-tron GT:		
	Pressure switches (all 3) remove and reinstall	8709 2050	See SRT with associated operations
	Refrigerant drain and fill	8703 1700	See SRT with associated operations
	Q5:		
	Pressure switches (both) remove and reinstall	8709 2050	See SRT with associated

		operations
Refrigerant drain and fill	8703 1700	See SRT with associated operations
e-tron:		
Pressure switch (G395) remove and reinstall	8757 1950	See SRT with associated operations
Pressure switch (G826) remove and reinstall	8764 1950	See SRT with associated operations
-or-		
Pressure switches (both) remove and reinstall	8709 2051	See SRT with associated operations
Q4		
Pressure switch remove and reinstall	8709 19xx	See SRT with associated operations
Check pressure switch	8709 0199	5 TU
All vehicles		
GFF	0150 0060	Time stated on the diagnostic protocol
Charge battery	2706 8950	See SRT with associated operations
Claim Comment:	As per TSB 2068460/7	

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 parts and service references provided in this TSB (**2068460**) are subject to change and/or removal.

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