

Technical Service Bulletin



87 Air conditioning system does not cool

87 15 62 2040653/1 May 15, 2015.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
A3, A3 Cabriolet, A4, allroad, A5, A5 Cabriolet, A6, A7, A8, Q5	2015 - 2016	All	Not Applicable

Condition

- The air conditioning system does not blow cold air.
- One or more of the following DTCs is stored in the air conditioning / heating electronics control module, J255 (address word 08):
 - **DTC VAG00256 with fault symptom 2** (Sensor for refrigerant pressure / temperature - lower limit not reached)
 - **DTC VAG00256 with fault symptom 1** (Sensor for refrigerant pressure / temperature - upper limit exceeded)
 - **DTC B10C221** (Sensor for refrigerant pressure and temperature lower limit not reached)
 - **DTC B10AE31** (High pressure sensor no signal)
 - **DTC B10AE04** (High pressure sensor faulty)
 - **DTC B10ABF0** (Refrigerant pressure lower limit not reached)
- In the course of diagnosis, the refrigerant circuit volume is checked and the refrigerant volume is correct. No leaks can be found.
- Normally, the diagnostic conclusion faults the high pressure sensor G395 (Figure 1), and it is subsequently replaced. The air conditioning system then functions normally.



Figure 1. High pressure sensor G395.

Technical Background

G395 sensors returned to Auburn Hills for testing reveal no malfunction with the sensor. Audi of America is requesting your cooperation in supplying us with technical information regarding this issue.

Production Solution

No changes to production have been made, as no issue has been identified with the high pressure sensor G395.

Service

For A3 sedan and A3 cabriolet vehicles up to and including VIN F1106816:

Verify that the air conditioning does not cool.

Check the refrigerant volume in the circuit:

- If the refrigerant volume is correct, refer to TSB 2038023: *87 Air conditioning does not cool and/or compressor is noisy.*
- If the refrigerant volume is not correct, continue diagnosis into a refrigerant circuit leak and repair as necessary outside of this bulletin.

For all other vehicles (including A3 sedan and A3 cabriolet vehicles after VIN F1106816):

Verify that the air conditioning does not cool.

Check the refrigerant volume in the circuit:

- If the refrigerant volume is correct and one of the DTCs listed in the *Condition* section is stored, do not replace any parts and do not perform any repairs. Open a TAC contact for further instruction. These cases are needed for on-site analysis to determine the root cause of the issue.
- If the refrigerant volume is not correct, continue diagnosis into a refrigerant circuit leak and repair as necessary outside of this bulletin. No contact with TAC is necessary.

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Warranty

Claim Type:	Use applicable claim type. If vehicle is outside any warranty, this Technical Service Bulletin is informational only.		
Service Number:	8757		
Damage Code:	0040		
Labor Operations:	Air conditioner check	8701 0150	30 TU
	Refrigerant drain+fill	8703 1700	50 TU
	Body brace remove+reinstall (Q5 only)	5069 1900	40 TU
Diagnostic Time:	GFF	0150 0000	Time stated on diagnostic protocol (Max 20 TU)
	Road test prior to service procedure	No allowance	0 TU
	Road test after service procedure	No allowance	0 TU
	Technical diagnosis at dealer's discretion (Refer to Section 2.2.1.2 and Audi Warranty Online for DADP allowance details)		
Claim Comment:	As per TSB #2040653/1		

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 (2040653) are subject to change and/or removal. Always check with your Parts Department and service manuals for the latest information.