

Technical Service Bulletin

87 Climate system is not cooling as desired

87 12 36 2012886/6 November 16, 2012. Supersedes Technical Service Bulletin Group 87 number 10-07 dated September 2, 2010 for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
Audi Q7	2007 - 2014	All	Not Applicable

Condition

REVISION HISTORY			
Revision	Date	Purpose	
6	-	Revised warranty table (damage code) and additional " <i>Note</i> " Revised header data (additional model years)	
5	9/2/2010	Revised header data (Controlling TSB display in ElsaWeb)	
4	8/6/2010	Revised header data (Added MYs) Revised <i>Warranty</i>	
3	12/5/2008	Revised Title to include Repair Group	

The A/C system is not cooling as desired in hot weather areas.

Technical Background

The following are suggestions to achieve maximum cooling efficiency in hot weather areas.

Production Solution

Not applicable.

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Service

- 1. Ensure that the scale on your R-134 A/C service tool is properly calibrated.
- 2. Discharge the A/C system as described in the ElsaWeb Repair Manual and measure the amount of refrigerant removed from the vehicle.
- 3. Refill the A/C system with the specified amount of refrigerant. Include dye for leak testing. (Ensure proper amount of refrigerant oil.)

Refrigerant capacity in grams

- 2 Zone 700 ± 50 grams.
- 4 Zone 1050 ± 50 grams.
- 4. If the incorrect amount of refrigerant is measured then take the appropriate steps to identify the leak in the system. Check service connections, A/C line joints, TXV connection, etc to ensure any small leaks are identified and repaired.
- 5. If the correct amount of refrigerant is measured, perform the *A/C system cooling performance, checking* test outlined in the ElsaWeb Repair Manual for the Audi Q7 front and rear A/C system.
- 6. Verify that the front and rear climate systems are operating within the specified operating range.
- 7. If the A/C system does not achieve the desired values, follow the diagnostic instructions outlined in ElsaWeb *Determine malfunction if specified values are not obtained.*



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Tip: Ensure proper operation of the recirculating flap.

8. If the climate system is operating within the specified range, parts replacement is not necessary and will not improve the operation of the climate system.

If the climate system is operating within the specified operating range, explain that it is not uncommon in some areas with hotter climates (i.e. the southwestern area of the United States) for the climate system to take longer to bring the cabin to a comfortable temperature level. Parking the vehicle for a long period of time in direct sunlight will heat the cabin above normal levels. Therefore it will take a longer than expected to cool the cabin.

Here are a few pointers that will help to accelerate cabin cooling:

- To prevent the cabin from heating up, we recommend to keep all sunshades closed (roof, tailgate and doors).
- Allow hot air to escape by leaving a side window slightly open.

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- An aftermarket sunscreen for front windshield can help keep the cabin cooler.
- An aftermarket window tint foil applied to the glass roof can reduce the cabin heat.
- Using only the front A/C system, if no passengers are in the rear cabin, will cool the front area of the cabin faster.
- Avoid parking in direct sunlight if possible.

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Claim Type:	Use applicable claim type. If vehicle is outside any warranty, this Technical Service Bulletin is informational only.			
Service Number:	8734			
Damage Code:	0016			
Labor Operations:	Air conditioner check	87 01 01 50	30 TU	
	Refrigerant drain and refill	87 03 17 00	50 TU	
	Use the appropriate labor operation for removing and installing any A/C related components that are found to be leaking.	Use appropriate labor operation	XX TU	
Diagnostic Time:	GFF	0150 0000	Time stated on diagnostic protocol (Max 50 TU)	
	Road test prior to service procedure	0121 0002	10 TU	
	Road test after service procedure	0121 0004	10 TU	

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	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 #2012886/6	

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.

Note: If system evacuate and recharge procedure is performed and additional refrigerant is added due to low volume, the root cause of the refrigerant loss must be diagnosed and repaired. Evacuation and recharge of the circuit with the addition of refrigerant in a system with low refrigerant volume that is not accompanied by a diagnosis and repair of the system leak that caused the low refrigerant level is only covered within 12 months or 12,000 miles (whichever occurs first).

Required Parts and Tools

Part Number	Part Description	Quantity
VAS 5051, VAS	Diagnostic tester	1
5051B or VAS		
5052		
A/C service unit	A/C system service unit	1

Additional Information

All parts and service references provided in this TSB are subject to change and/or removal. Always check with your Parts Department and service manuals for the latest information.

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