



Technical Service Bulletin

87 Air conditioning cooling is diminished and/or the compressor is noisy

87 23 64 2061277/3 December 13, 2023. Supersedes Technical Service Bulletin Group 87 number 21-18 dated December 6, 2021 for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
A6, and A7	2019 – 2024	All	Not Applicable
A6 allroad, S6, and S7	2020 – 2024		
RS 7	2021 – 2024		
A7 e quattro	2021 - 2022		

Condition

REVISION HISTORY		
Revision	Date	Purpose
3	-	Revised header (Add Model Year) Revised <i>Warranty</i> (Remove test drive allowance)
2	12/06/2021	Revised header (Add Model Year and Model)
1	11/07/2020	Initial publication

Customer states:

- When the air conditioning is operating the intensity of cold air feels diminished.

Or

- When the air conditioning is operating a rattling noise can be heard from the engine compartment. The noise is no longer present when the air conditioning is switched off.

Workshop findings:

- Either of these symptoms can be reproduced.

Technical Background



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A manufacturing inconsistency has been discovered in the N280 regulating valve installed in air conditioning compressors produced by Sanden.

NOTICE

Only air conditioning compressors manufactured by Sanden with the part number 4K0 816 803 D are affected.

Production Solution

Not applicable.

Service

1. Check the fault memory in the electronic central control module (BCM 1), J519 (address word 0009) for any stored DTCs. Should any DTCs be stored the corresponding test plan(s) for these DTCs should be followed and completed in their entirety.
2. If there are no DTCs are stored in the electronic central control module (BCM 1), J519 (address word 0009) proceed with the test plan for air conditioning efficiency: *Test plan >> Select individual test plan >> 09 - Electronic Central Electrical J 519 >> 09 - Electronic Central Electrical, functions >> 09 other functions, air conditioning system.*
- 3a. The result of the test plan may conclude that the refrigerant in the circuit is incorrect:
 - Correct the refrigerant volume if necessary.

Or
- 3b. The result of the test plan may conclude the N280 regulating valve for the air conditioning compressor is faulty:
 - Replace the N280 regulating valve for the air conditioning compressor according to the procedure in the Elsa Repair Manual.

Or
- 3c. The result of the test plan may conclude the air conditioning compressor is faulty:
 - Replace the air conditioning compressor according to the procedure in the Elsa Repair Manual.

NOTICE



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Should replacement of the N280 regulating valve or air conditioning compressor become necessary flushing of the refrigerant circuit should also be performed in the course of either of these repairs.

Warranty

Claim Type:	<ul style="list-style-type: none">• 110 up to 48 Months/50,000 Miles.• G10 for CPO Covered Vehicles – Verify Owner.• If the vehicle is outside any warranty, this Technical Service Bulletin is informational only.		
Service Number:	<ul style="list-style-type: none">• Replace N280 regulating valve: 8737.• Replace air conditioning compressor: 8734.		
Damage Code:	0010		
Labor Operations:	Refrigerant drain and fill	8703 1750	See SRT with associated operations
	Air conditioner clean	8701 2950	See SRT with associated operations
	Compressor remove and reinstall	8734 1943	See SRT with associated operations
	Compressor replace	8734 5550	See SRT with associated operations
	N280 regulating valve replace	8737 195X	See SRT with associated operations




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Diagnostic Time:	GFF	0150 0000	Time stated on the diagnostic protocol (Max 80 TU)
	Road test prior to the service procedure	No allowance	0 TU
	Road test after the service procedure	No allowance	0 TU
Claim Comment:	As per TSB 2061277/3		

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.

Required Parts and Tools

Always check with your Parts Department and/or ETKA for the latest information and parts bulletins.		
Part Number	Part Description	Quantity
See ETKA	Fasteners, Bolts, Nuts, and Screws as needed per the Repair Manual	See ETKA/ELSA
4K0816803D	 Air conditioner compressor	01
4K0260839	Valve for refrigerant compressor	01

Additional Information



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All parts and service references provided in this TSB (2061277) are subject to change and/or removal.

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