



Technical Service Bulletin

19 Engine: cooling system - engine overheats, red coolant temperature warning lights up - 4.0 ltr. V8 TFSI
19 24 62 2074303/2 July 3, 2024. Supersedes Technical Service Bulletin Group 19 number 24-61 dated June 27, 2024 for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
A8	2019 - 2021	All	Not Applicable
S8, SQ7, and SQ8	2020 - 2024		
RS Q8	2020 - 2023		
RS 6 Avant, and RS 7	2021 - 2024		

Condition

REVISION HISTORY		
Revision	Date	Purpose
2	-	Revised <i>Warranty Accounting table</i> (Adjusted service number)
1	06/27/2024	Initial publication

Customer statement:

The engine is overheating.

The coolant temperature gauge is in the red.

The red coolant temperature warning light appears in the instrument cluster.

Workshop findings:

The customer complaint can be reproduced, and the engine temperature is in the red.

Technical Background

EA825 V8 TFSI engines across all power classes are currently equipped with a switchable mechanical coolant pump.

It is activated via the electric changeover valve N649.

When N649 is activated, it switches a vacuum to the mechanical coolant pump. This pushes a locking sleeve over the pump impeller, which can cause coolant to stagnate.

When N649 is not activated, no vacuum is switched to the mechanical coolant pump, and the coolant pump is not covered. In this case, the coolant is pumped through the coolant pump impeller.

SSP 676 contains more information on the EA825 V8 TFSI engine cooling system.



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Production Solution

Not applicable.

Service

Please remove the vacuum hose on the mechanical coolant pump (number 13 in image 1).

Please check whether this results in lower engine coolant temperatures.

If the coolant temperature drops, replace the electric changeover valve for the switchable mechanical coolant pump N649 according to the Workshop Manual.

Also check whether there are traces of coolant in the vacuum hose between the mechanical coolant pump and N649, or in the vacuum connection of N649. If there are traces of coolant, please also replace the switchable mechanical coolant pump according to the Workshop Manual and provide images.



NOTICE

When billing, a video that clearly documents the complaint should be uploaded to DOC-IT.

- **To ensure a reference to the vehicle, the video must include the VIN number and the date.**
- **Please ensure that the video documentation does not show any persons and/or faces, license plates, or customer data.**



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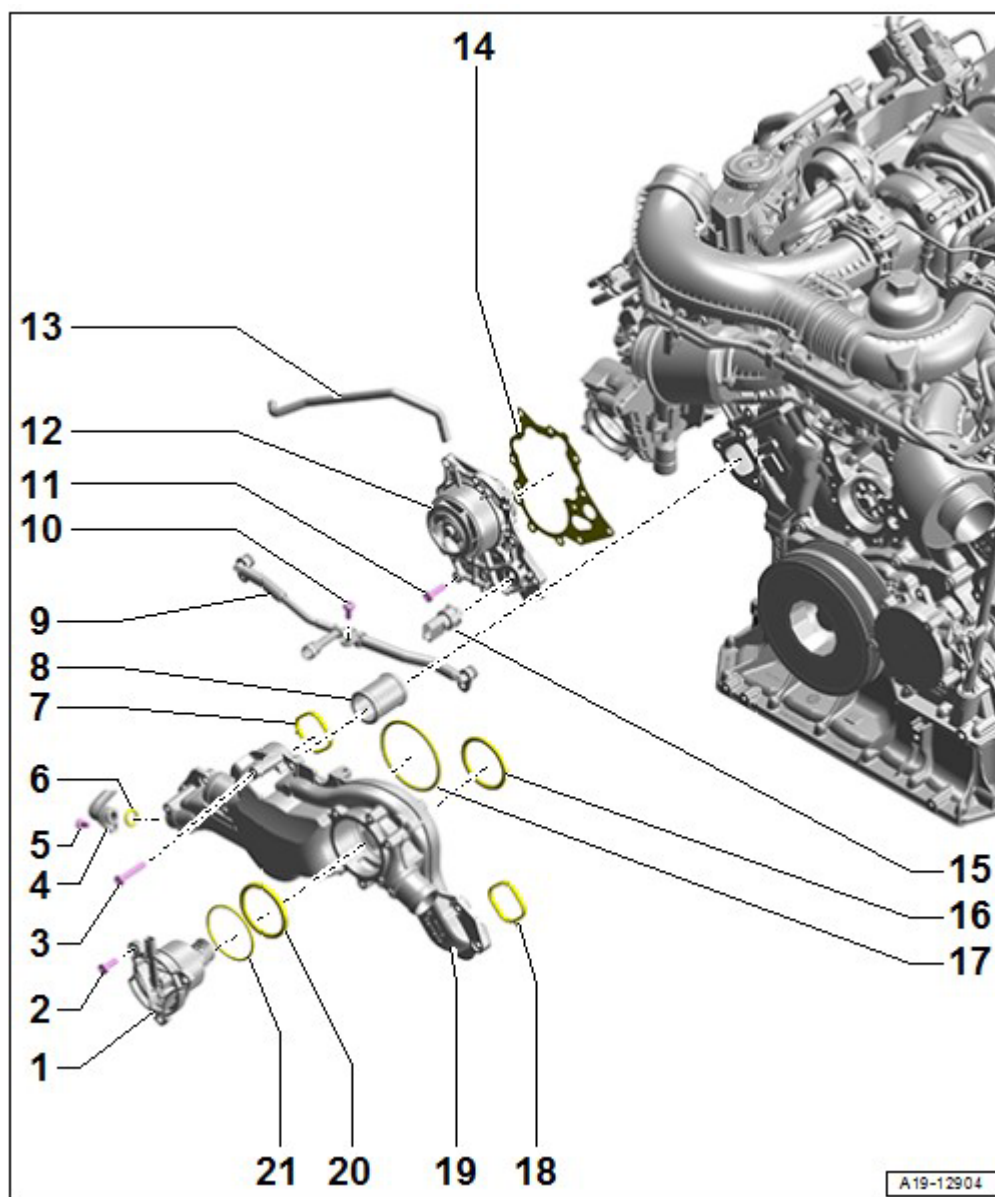


Figure 1. Assembly overview – coolant pump/thermostat incl. switchable mechanical coolant pump, number 12.



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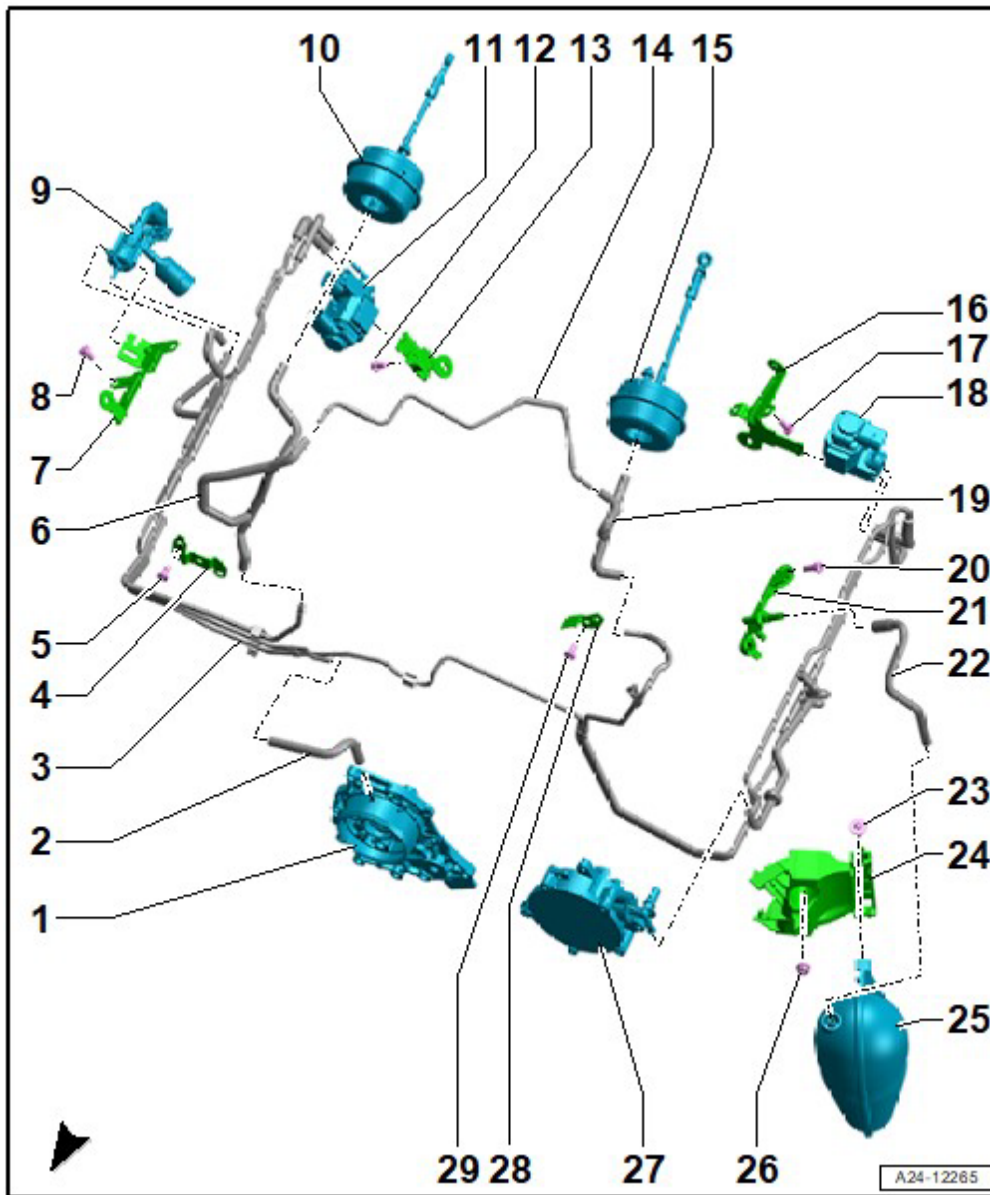


Figure 2. Assembly overview – vacuum system incl. N649, number 9.

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 of any warranty, this Technical Service Bulletin is informational only.
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Service Number:	1985		
Damage Code:	0010		
Labor Operations:	Remove and install valve N649	1984 19xx	See SRT with associated operations
	Remove and install coolant pump (if necessary)	1950 19xx	See SRT with associated operations
Diagnostic Time:	GFF	0150 0060	Time stated on diagnostic protocol
	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 2074303/2		

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 (**2074303**) 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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