



Technical Service Bulletin

19 Engine: cooling system - engine overheats, red coolant temperature warning lights up - 4.0 ltr. V8 TFSI
19 24 61 2074303/1 June 27, 2024.

| 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

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.

Production Solution

Not applicable.



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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.

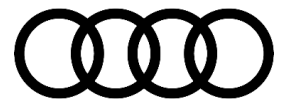
Also check whether there are traces of coolant in the vacuum hose between the mechanical coolant pump and N649, or in the vacuum connection of N649. If there are traces of coolant, please also replace the switchable mechanical coolant pump according to the Workshop Manual and provide images.



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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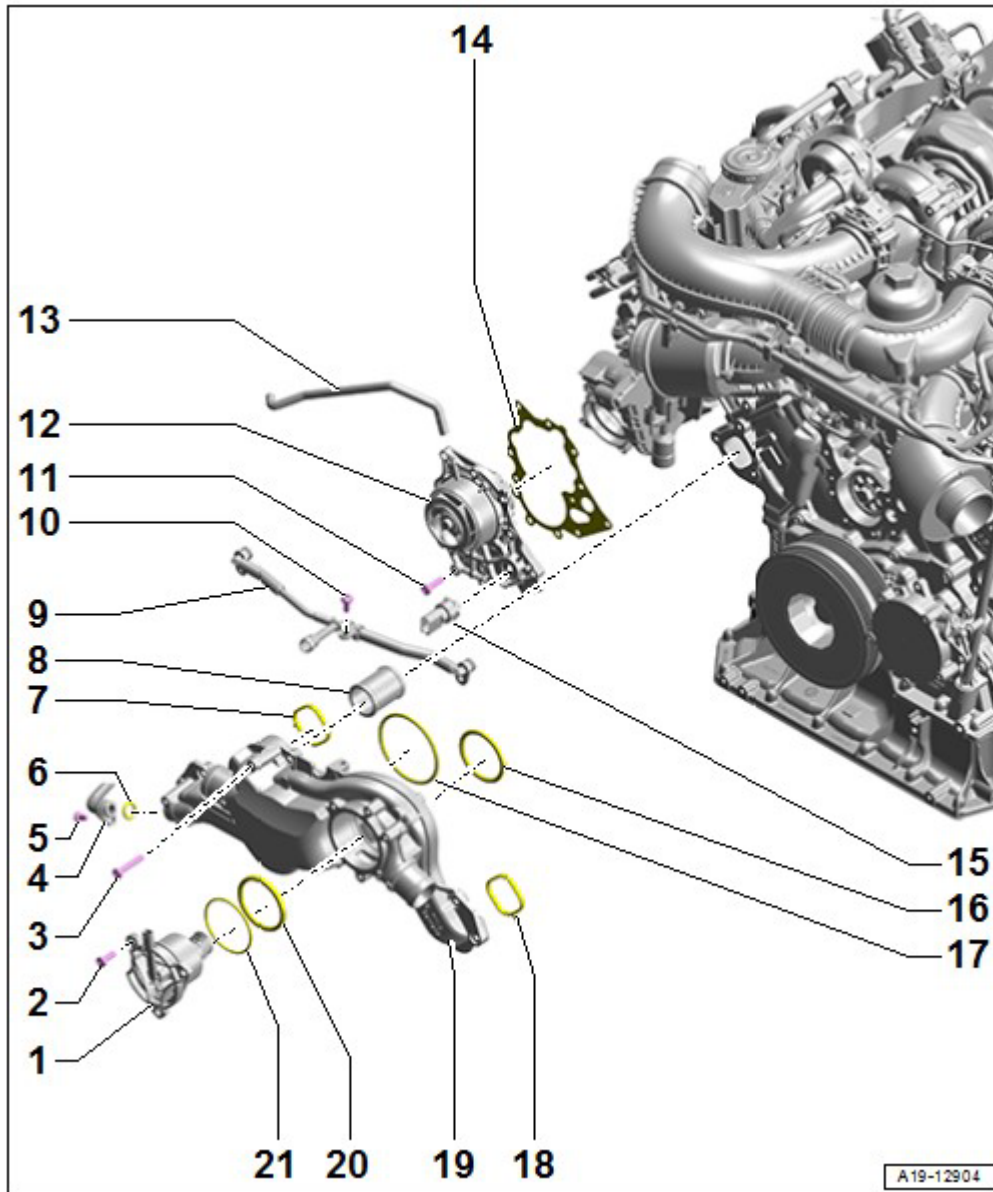


Figure 1. Assembly overview – coolant pump/thermostat incl. switchable mechanical coolant pump, number 12.



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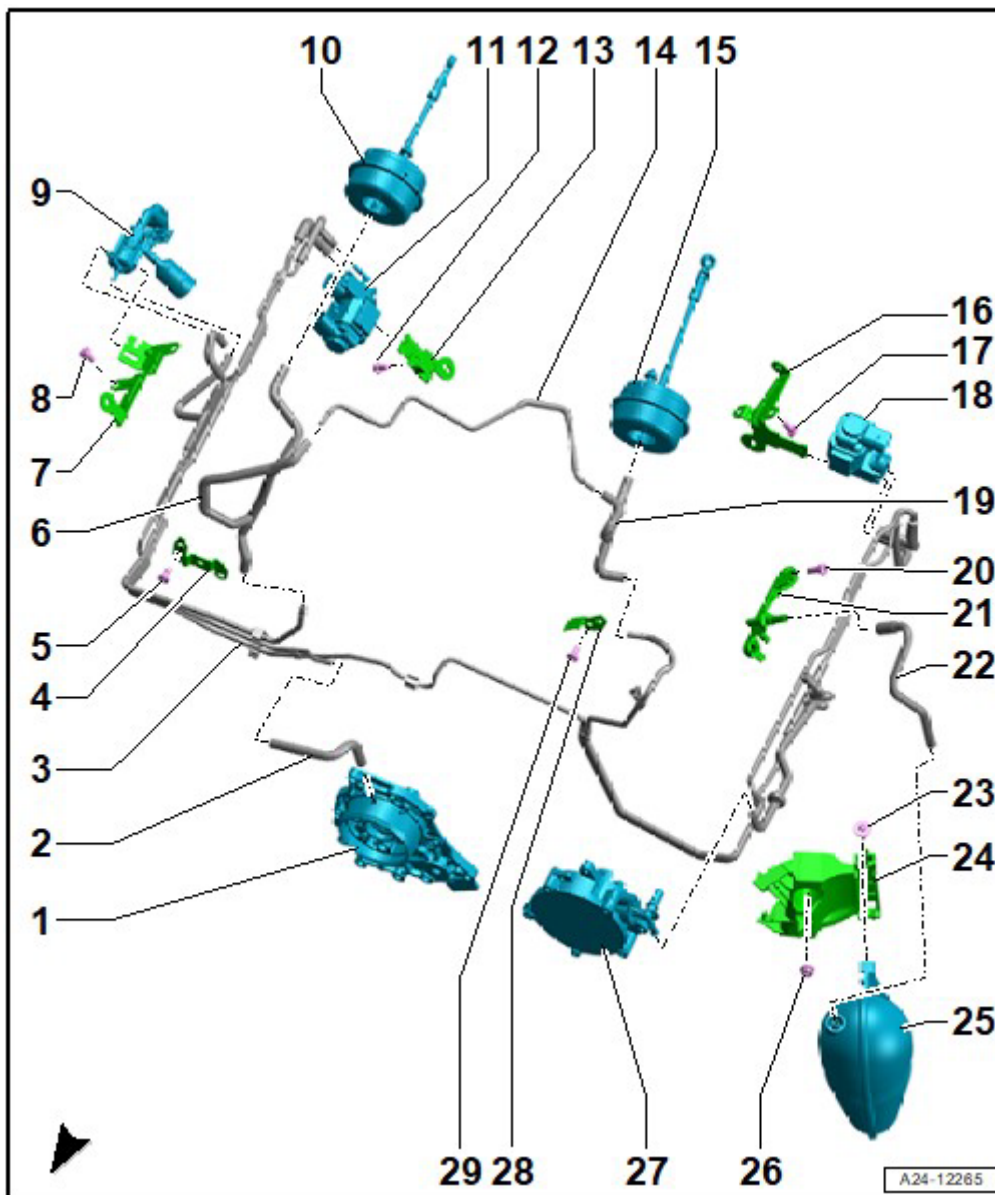
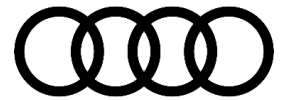


Figure 2. Assembly overview – vacuum system incl. N649, number 9.

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: | 1366 | | |
| Damage Code: | 0010 | | |
| Labor Operations: | Remove and install valve N649 | 1985 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 | 10 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 2074303/1 | | |

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 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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