



Technical Service Bulletin

19 Red coolant warning lamp on, DTCs P218100, P017B00, P017C00, and/or P017E00 are stored in the ECM

19 21 16 2062951/1 May 3, 2021.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
RS 6 Avant, RS 7	2021	900001 - 901935	V8 TFSI
Q7, Q8, SQ8, SQ7, and RS Q8	2020	All	V8 TFSI
Q7, SQ7	2021	000001 - 015609	V8 TFSI
Q8, SQ8	2021	000001 - 010457	V8 TFSI
RS Q8	2021	000001 - 011352	V8 TFSI
A8, S8	2019 - 2020	All	V8 TFSI
A8	2021	000001 - 007769	V8 TFSI
S8	2021	000001 - 005379	V8 TFSI

Condition

Customer states:

- Red coolant warning lamp is illuminated in the instrument cluster.

Workshop findings:

The following DTCs may be stored in the engine control module (ECM), J623 (address word 0001):

- **DTC P218100** (Malfunction in cooling system).
- **DTC P017B00** (Cylinder head temperature sensor implausible signal).
- **DTC P017C00** (Cylinder head temperature sensor short circuit to ground).
- **DTC P017E00** (Cylinder head temperature sensor open circuit/loose contact).

Technical Background

Damage to the O-ring of the temperature sensor can cause water intrusion inside the plastic housing of the coolant temperature sender G407 (cylinder head temperature sensor). The moisture can damage the sensor element. The loss of function can be sporadic.



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Production Solution

Improved part in production.

Service

1. Work through Guided Fault Finding.
2. It is very important to also check whether the O-ring located directly on the tip of the coolant temperature sender G407 is visibly damaged and/or pinched (Figure 1).



Figure 1. O-ring is pinched.

3. Replace the G407 if it is damaged and/or pinched.

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.
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Service Number:	1978		
Damage Code:	0040		
Labor Operations:	Remove and install temperature sender	1978 19XX	See SRT with associated operations
Diagnostic Time:	GFF	0150 0000	Time stated on the diagnostic protocol (Max 20 TU)
	Road test prior to the service procedure	0121 0002	10 TU
	Road test after the service procedure	0121 0004	10 TU
Claim Comment:	As per TSB #2062951/1		

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.

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
See ETKA	Coolant temperature sender G407	01

Tool Number	Tool Description
VAS 6160/VAS 6150	VAS tester with the current version of ODIS (Windows 10)

Additional Information

All parts and service references provided in this TSB (2062951) are subject to change and/or removal.

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