



Technical Service Bulletin

19 Red coolant warning lamp comes on OR MIL on, DTC P218100 and/or P1BB400

19 24 66 2069248/7 September 16, 2024. Supersedes Technical Service Bulletin Group 19 number 24-64 dated August 30, 2024 for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
A8	2019 – 2021	All	4.0L engine
S8	2020 – 2021		
SQ7, SQ8, and RS Q8	2020 – 2022		
RS 6 Avant, and RS 7	2021 – 2022		

Condition

REVISION HISTORY		
Revision	Date	Purpose
7	-	Revised <i>Warranty</i> (Updated Warranty table) Revised header (Adjusted VIN breaks)
6	08/30/2024	Revised <i>Warranty</i> (Updated Warranty table)
5	09/14/2023	Revised <i>Warranty</i> (Updated Warranty table)

Customer states:

- The red coolant temperature warning is displayed in the instrument cluster and the engine fans are running. However, according to the coolant temperature gauge, the engine temperature is **NOT** excessively high.

And/Or

- MIL on.

Workshop findings:

The following DTCs are stored in the Engine Control Module, -J623- (address word 0001):

- DTC P218100:** Cooling System Performance. **(Must be stored.)**
- DTC P1BB400:** Cylinder head temperature too low. **(May also be present.)**

Technical Background 1

The diagnosis for event memory entry P218100 checks the engine's warm-up function.



Technical Service Bulletin

If an issue is found in this diagnosis and the event memory entry P218100 is logged in the engine control unit, the red coolant temperature warning may come on (along with the fans) due to a software issue.

A functional issue on map-controlled engine cooling system thermostat F265 can lead to the event memory entry P218100 being logged in the engine control unit.

In some instances, corrosion between the brass bushing and the heating pin leads to inaccurate open and close positions during the operating temperature range. The surface treatment process of the thermostat sleeve has been improved to minimize corrosion.

Production Solution

Map-controlled engine cooling system thermostat F265 optimized:

Model	Change introduced with VIN	Vehicle production date
A8	WAU8EAF88MN029517	11/03/2021
RS6/7	WUAZZZF29NN901309	11/09/2021
S8	WAUZZZF87MN027586	09/29/2021
RSQ8	WU1ARBF18ND005018	01/21/2022
SQ7/8	WA1AWBF17ND005382	02/25/2022

Service

Replace Map Controlled Engine Cooling Thermostat F265.

Please also check that the ball-type non-return valves (check valves) in the two quick-release couplings for the coolant breather line which connects the engine and the main radiator to the coolant expansion tank are present and are working correctly. To ensure correct functioning, the balls must be able to move freely, and the valves must open in the normal direction of flow toward the expansion tank but close toward the engine/main radiator (refer to “Connection diagram – coolant lines” in ELSA).

Warranty

Claim Type:	<ul style="list-style-type: none">If the vehicle is outside any warranty, this Technical Service Bulletin is informational only
Service Number:	1958
Damage Code:	0010



Technical Service Bulletin

Labor Operations:	Thermostat remove + reinstall	1958 1973	See SRT with associated operations
	Check non-return valves	1986 2099	20 TU
	GFF	0150 0000	Labor according to the diagnostic log
	Charge battery	2706 8950	See SRT with associated operations
Claim Comment:	As per TSB 2069248/7		

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

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

Additional Information

All part and service references provided in this TSB (**2069248**) 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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