

Technical Service Bulletin



19 Coolant temperature control implausible signal

19 16 69 2043770/1 March 31, 2016.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
R8	2007 - 2015	All	Not Applicable

Condition

One or more of the following conditions may be present:

- MIL on.
- Coolant temperature gauge does not work.
- Vehicle does not reach operating temperature.
- Cooling fan runs constantly.
- The following DTC may be stored in the engine control module (ECM), J623 (address word 01):
 - **DTC P218100** (Cooling system performance)

Technical Background

Coolant thermostat does not work.

Production Solution

Improved thermostats.

Service



Tip: It is not necessary to receive a Repair Authorization to perform this or any other R8 TSB.

Use the following instructions to replace the coolant thermostat with repair kit 079 198 121:

1. Remove the coolant thermostat housing according the instructions in Elsa.
2. Note the position of the thermostat element within the housing. Remove the thermostat element by removing the three Allen screws (Figure 1).

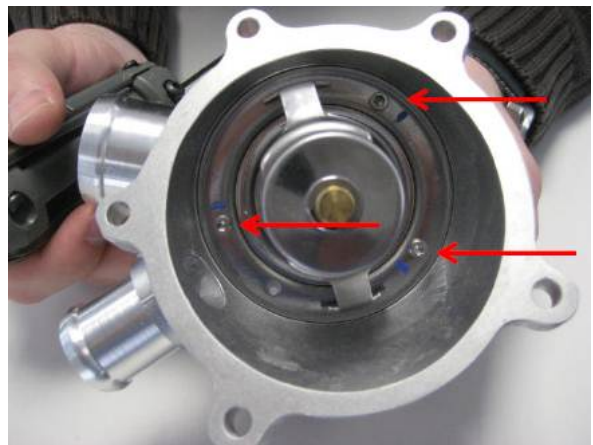


Figure 1. Remove the three Allen screws (red arrows) to remove the thermostat.

3. Take the seal out of the thermostat housing and replace it with the new seal (Figure 2).



Figure 2. Thermostat housing seal (red arrow).

4. Ensure that the insulation sleeve is fitted on the underside of the thermostat element (Figure 3). Before fitting the insulation sleeve and O-ring, lightly coat them with coolant.

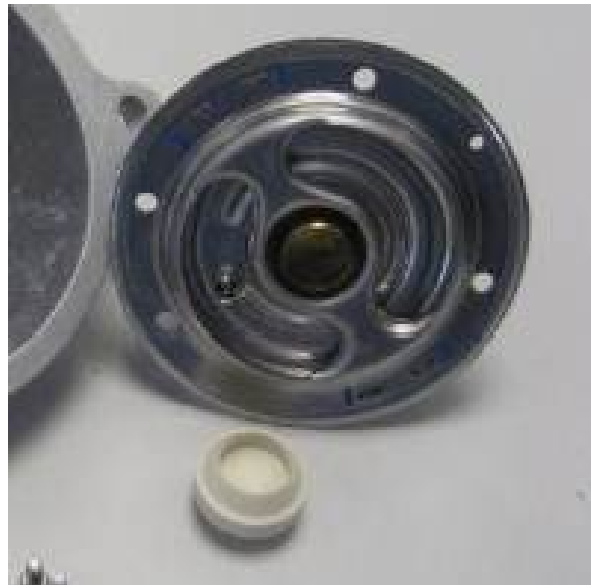


Figure 3. *Insulation sleeve.*

5. Insert the new thermostat element (including insulation sleeve) into the housing (Figure 4).

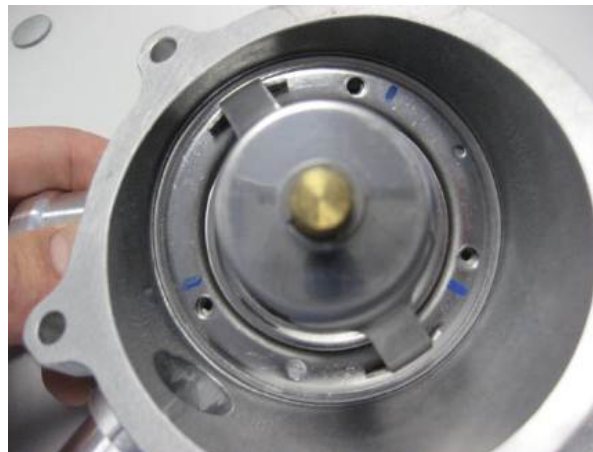


Figure 4. *New thermostat installed.*

6. Secure the thermostat element with the three new Allen screws. Use special tool V.A.G 1624 or VAS6494, or equivalent torque wrench (Figure 5). Tighten to 2 Nm (+1 / - 0 Nm).



Figure 5. *Torque wrench.*

7. Reinstall the thermostat housing (with new O-ring 079 121 119 C) according to the instructions in Elsa.
8. Fill cooling system according to the instructions in Elsa. Do not reuse used coolant.

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Warranty

Claim Type:	Use applicable claim type. If vehicle is outside any warranty, this Technical Service Bulletin is informational only.		
Service Number:	1958		
Damage Code:	0016		
Labor Operations:	Thermostat remove+reinstall (For V8 engines)	1958 1919	220 TU
	Thermostat remove+reinstall (For V10 engines)	1958 1923	220 TU
	Install thermostat repair kit	1958 9999	10 TU
Diagnostic Time:	GFF – Checking and clearing fault codes	0150 0000	10 TU
	Road test prior to service procedure	No allowance	0 TU
	Road test after service procedure	0121 0004	10 TU
	Technical diagnosis at dealer's discretion (Refer to Section 2.2.1.2 and Audi Warranty Online for DADP allowance details)		
Claim Comment:	As per TSB #2043770/1		

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

Part Number	Part Description	Quantity
079198121	Repair kit thermostat	1
079121119C	Thermostat housing O-ring gasket	1
G 013A8J1G	Coolant additive	3
VAS 6096	Cooling system charging unit	
V.A.G 1274/8	Adapter	
T10007 A	Refractometer	
V.A.G 1624 or VAS6494 or equivalent	Torque wrench (0 Nm to 5 Nm)	

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Additional Information

All parts and service references provided in this TSB (2043770) are subject to change and/or removal. Always check with your Parts Department and service manuals for the latest information.