

# Technical Service Bulletin



## 01 MIL on (DTC P2181 - Cooling system performance)

01 14 88 2038045/1 August 15, 2014.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
S6, S7	2013 - 2014	All	4.0T
RS 7	2014	All	4.0T
S8	2013 - 2014	All	4.0T
A8	2013 - 2014	All	4.0T

## Condition

- MIL on.
- **DTC P218100** (Cooling System Performance) is stored in the engine control module (ECM), J623 (address word 01).

## Technical Background

DTC P218100 will be stored if, after a specified air flow (warm-up phase), the measured engine temperature does not reach the value in the timing map. Particles in the cooling system from the production process affect the closing of the coolant thermostat.



### Note:

Replacing the coolant temperature sender does not fix the problem.

## Production Solution

Optimized coolant thermostat.

## Service

1. Flush out the cooling system (doing so will help prevent repeat repairs):
  - First, drain the complete coolant system according to the repair manual, including removal of the coolant thermostat housing.
  - Next, fit the old coolant thermostat housing and fill the cooling system with the correct coolant mixture, as listed in the repair manual.
  - Next, warm up the engine at idle speed. When the big coolant circuit is open, put the heating on maximum. Run the engine for an additional 10 minutes at idle.
  - Finally, drain the complete coolant system according to the repair manual, again.
2. Replace the coolant thermostat F265 with part number 079121115BD.
3. Fill the new coolant additive in the cooling system according to manufacturer guidelines. Observe the mixture ratio and filling-up procedure.



**Note:**

Only mix distilled water with coolant additives. Distilled water provides optimum corrosion protection.



**Note:**

The filling procedure outlined in Elsa must be followed. It is important that the vacuum-down, filling, and bleeding processes for the specific vehicle being repaired are used.

# Technical Service Bulletin



## Warranty

<b>Claim Type:</b>	Use applicable claim type. If vehicle is outside any warranty, this Technical Service Bulletin is informational only.		
<b>Service Number:</b>	1958		
<b>Damage Code:</b>	0016		
<b>Labor Operations:</b>	Coolant drain + fill	1938 1700	160 TU
	Thermostat remove + reinstall (S6, S7, S8, A8 4.0TFSI)	1958 1999	300 TU
	Thermostat remove + reinstall (RS 7)	1958 1999	330 TU
<b>Diagnostic Time:</b>	GFF – Checking and clearing fault codes included in existing labor operations	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)		
<b>Claim Comment:</b>	As per TSB # 2038045/1		

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
079121115BD	Map controlled engine cooling thermostat F265	1
G 01A8JM1	Coolant additive	See Elsa
Outside material	Distilled water (obtain locally)	As needed (Max \$10.00)

Tool Number	Tool Description
VAS 6096	Cooling System Charge Unit
VAG 1974/8	Adapter
VAG 1978/10	Adapter

# Technical Service Bulletin



---

VAS 6208	Drip tray
T10007A	Refractometer

## Additional Information

All parts and service references provided in this TSB (2038045) are subject to change and/or removal. Always check with your Parts Department and service manuals for the latest information.