

19 Thermostat, electric fault (DTC P0599, P0597, P2181)

19 17 86 2042328/3 May 22, 2017. Supersedes Technical Service Bulletin Group 19 number 16-68 dated March 9, 2016 for reasons listed below.

| Model(s) | Year | VIN Range | Vehicle-Specific Equipment |
|----------|-------------|-----------|----------------------------|
| S5 | 2008 - 2012 | All | 4.2 FSI |
| RS5 | 2013 - 2015 | All | 4.2 FSI |
| A8 | 2011 - 2012 | All | 4.2 FSI |

Condition

| REVISION HISTORY | | | |
|------------------|------------|--|--|
| Revision | Date | Purpose | |
| 3 | - | Revised <i>Warranty</i> (Updated Service Number, Labor Operations, and Claim Type) | |
| 2 | 03/10/2016 | Revised Warranty (Changed Damage Code; added GFF time) | |
| 1 | 10/29/2015 | Initial publication | |

One or more of the following conditions is present:

- The red coolant light is illuminated (Figure 1), indicating that the coolant temperature is too high or that the coolant level is too low.
- The engine speed governing light is illuminated (Figure 1) with the message "Engine speed maximum XXXX rpm". To prevent the engine from overheating, the engine speed is automatically limited to the displayed maximum.
- One of the following DTCs is stored in the engine control module (ECM), J623 (address word 0001):
 - **DTC P059700** (Thermostat for map-controlled engine cooling F265, circuit open)
 - DTC P059900 (Thermostat for map-controlled engine cooling F265, short circuit to positive)
 - DTC P218100 (Fault in cooling system)



Figure 1. Engine speed governing light (left) and red coolant light (right).

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Technical Background

Tolerances of opening spring in thermostat cause the condition.

Production Solution

Modified coolant thermostat housing.

Service

If one of the DTCs listed in the *Condition* is stored, replace the coolant thermostat housing for map-controlled engine cooling (Figure 2).

It is not necessary to replace the complete coolant pump.

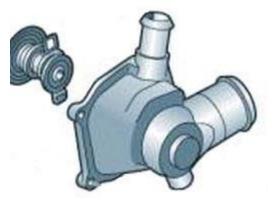


Figure 2. Coolant thermostat housing for map-controlled engine cooling.

Warranty

| Claim Type: | 110 up to 48 Months/50,000 Miles. G10 for CPO Covered Vehicles – Verify Owner. If vehicle is outside any warranty, this Technical Service Bulletin is informational only. | | |
|-------------------|---|---|--|
| Service Number: | 1958 | | |
| Damage Code: | 0010 | | |
| Labor Operations: | Thermostat housing remove + reinstall (Includes all operations) | 1958 1919 (For S5) 1958 1921 (For RS5) 1958 1919 (For A8) | 160 TU (For S5) 190 TU (For RS5) 190 TU (For A8) |

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| Diagnostic Time: | GFF – check and clear faults 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 #2042328/3 | | |

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 |
|------------------|---|----------------------------|
| 079121115BB | Map controlled engine cooling thermostat F265 | 1 |
| G 013A8J1G | Coolant additive | 1 |
| Outside material | Distilled water (obtain locally) | As needed (Max \$10.00) |

| Tool Number | Tool Description |
|-------------|----------------------------|
| VAS 6096 | Cooling system charge unit |
| VAS 6208 | Drip tray |
| T10007A | Refractometer |

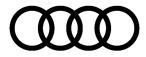
Additional Information

All parts and service references provided in this TSB (2042328) are subject to change and/or removal. Always check with your Parts Department and service manuals for the latest information.

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