WD69 - Checking Coolant Regulator and Replacing it if Necessary (Workshop Campaign)

Vehicle Type: **911 GT3 (991)**

Model Year: **2014**

Concerns: **Coolant regulator**

Information: This is to inform you of a voluntary Workshop Campaign on the above-mentioned vehicles. **There is a possibility that coolant regulators that do not meet the required specifications may have been installed on the affected vehicles over a limited period of time.**

As a result, the coolant temperature might increase to above the permitted temperature range after the engine has been running under load for just a short time.

Action Required: Check the function of the coolant regulator and replace it if necessary before vehicle delivery to the customer.

Affected Vehicles: The VIN(s) can be checked by using PIWIS Vehicle Information link to verify if the campaign affects the vehicle. This campaign is scope specific to the VIN! Failure to verify in PIWIS may result in an improper repair. This campaign currently affects 173 vehicles in North America.

Parts Info: **NOTE: Parts must be ordered via a PTEC / PAV after inspection and determination that replacement of the coolant regulator is actually required.**

- There are **no parts** required for **checking** the coolant regulator (Scope 1).
- Parts required for replacing the **coolant regulator** (Scope 2):

000.043.209.36	⇒ Thermostat insert (coolant regulator)	1 ea.
9A1.106.305.00	⇒ Seal for thermostat	1 ea.
900.123.007.30	⇒ Sealing ring (coolant drain plug)	1 ea.
000.043.301.47	⇒ Antifreeze, 1-litercontainer	approx. 1 liter per vehicle (as much as required)
000.043.205.93	⇒ Grease Klüberplus Gel	100g tube (approx. 1 gram of grease required per vehicle)

Tools:

- **Nr.49-1 - Torx screw tool set**
- **Nr.90 Pos.1 - Torque wrench** (2-10 Nm / 1.5-7.5 ftlb.)
- **Nr.164 Pos.1 - Temperature probe**

Information

If the coolant regulator needs to be replaced, additional special tools are required in accordance with the descriptions in the Workshop Manual.

Work Procedure: See Attachment “A”.

Claim Submission: See Attachment “B”.

Attachment "A": **Work Procedure**

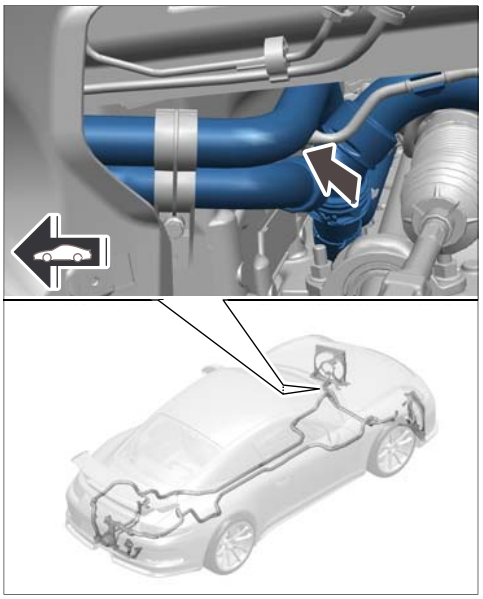
Checking function of coolant regulator

Work Procedure:

Information

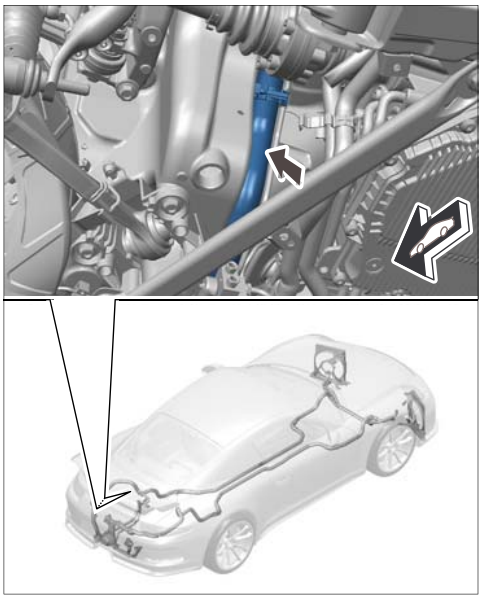
The function of the coolant regulator is checked by determining whether the coolant pipes in the front and rear end area heat up after a certain coolant temperature is reached.

- The section to be checked **at the front of the vehicle** is behind the air vane, directly **in front of the radiator inlet (supply)** at the front left in direction of travel.



Body front section, left

- The section to be checked **at the rear of the vehicle** is **after the radiator outlet (return)** at the left-hand side of the engine compartment at the same height as the longitudinal member.



Rear end, left

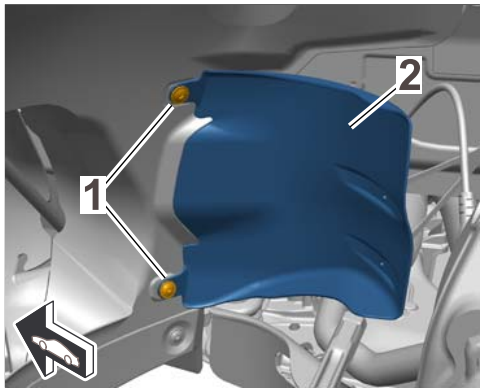
Precondition for checking the coolant regulator:

- Coolant temperature less than 140° F (60° C)

1 Raise the vehicle on a lifting platform ⇒ *Workshop Manual '4X00IN Lifting the vehicle'*.

2 Turn the front wheels **fully to the left**.

3 Unscrew and remove both fastening screws ⇒ *Loosening air vane* **-1-** at the left of the air vane ⇒ *Loosening air vane* **-2-** in the left wheel housing (only if air vane is already fitted).



Loosening air vane

WARNING

Toxic exhaust gases

- **Risk of suffocation**

⇒ **Before starting the engine, position an exhaust extraction system behind the vehicle's exhaust pipes and switch it on.**

4 **Start the engine** and leave it running **at idle speed until** a coolant temperature of **140° F (60° C)** is reached.
The coolant temperature can be read from the coolant temperature gauge in the instrument cluster ⇒*Coolant temperature 140° F (60° C)*.

Coolant temperature 140° F (60° C)

CAUTION

Hot components

- **Risk of burns**

⇒ **Wear personal protective gear.**

Information

If the coolant regulator is working properly, it will still be closed at a coolant temperature of approx. 140° F (60° C). The coolant pipes at the front and rear of the vehicle have not yet heated up above the ambient temperature at this time.

5 **Increase engine speed** to max. **2,000 rpm** until a coolant temperature of **194° F (90° C)** is reached.

Once a coolant temperature of **194° F (90° C) is reached**, the large cooling system will be **opened**.

Coolant temperature > 194° F (90° C)

Information

As an alternative to checking the temperature by touching the coolant pipes, a temperature probe can also be used.

When using a temperature probe, the ambient temperature directly at the cold coolant pipes is measured during the first measurement and shown in the display.

After opening the large cooling system, a significant increase in temperature of approx. 68° F (20° C) at the front coolant pipe is shown in the display. Subsequent activation of the radiator fan indicates that the coolant regulator is working properly.

6 Check whether the **coolant pipes at the front and rear** of the vehicle **heat up** above the **ambient temperature**.

If the coolant pipes at the front and rear do not heat up because the **coolant regulator is closed** and the coolant temperature increases to **221° F (105° C)**, **stop the engine immediately**.

Information

The coolant regulator must be replaced in the following situations:

- Coolant temperature increases to 221° F (105° C).
- Coolant pipes at the front/rear left **do not heat up** above the ambient temperature.
- Coolant regulator remains closed.
- Coolant leaks out of the reservoir.
- The message "Engine temperature too high" is displayed in the instrument cluster.

The coolant regulator must not be replaced in the following situations:

- Immediately after reaching a coolant temperature of 194° F (90° C), the coolant regulator opens and the coolant temperature drops to below 194° F (90° C).
- The large cooling system is active and the coolant pipes at the front/rear left heat up.

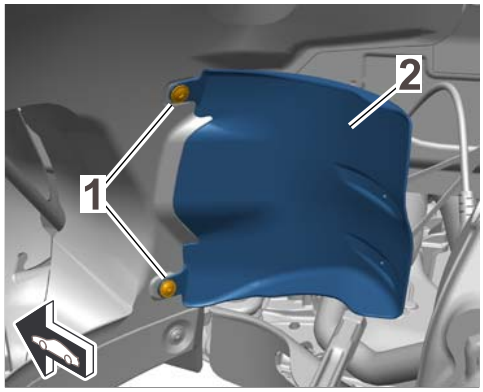
7 Stop the engine.

8 If the results of the previous check indicate that the coolant regulator must be replaced, **replace** the **coolant regulator as described in the Workshop Manual** ⇒*Workshop Manual '195819 Removing and installing coolant regulator'*.

9 If necessary, secure the air vane ⇒ *Securing air vane* **-2-** with the fastening screws ⇒ *Securing air vane* **-1-**.

Tightening torque 3.2 Nm (2 ftlb.)

10 Enter the workshop campaign in the Warranty and Maintenance booklet.



Securing air vane

Attachment "B": **Claim Submission** - Workshop Campaign WD69
Warranty claims should be submitted via WWS/PQIS.
Open campaigns may be checked by using either the PIWIS Vehicle Information system or through PQIS Job Creation.
Labor, parts, and sublet will be automatically inserted when Technician is selected in WWS/PQIS. If necessary, the required part numbers will need to be manually entered into warranty system by the dealer administrator.

Scope 1: **Checking function of coolant regulator**.

Information
The specified working time was determined specifically for carrying out this campaign and may differ from the working times published in the Labor Operation List in PIWIS.

Working time:

Checking function of coolant regulator — Labor time: **40 TU**
Includes: Moving vehicle onto lifting platform and raising it
Loosening and securing air vane for brake disc
Checking coolant regulator

⇒ **Damage code WD69 066 000 1**

Scope 2: **Checking function of coolant regulator and replacing coolant regulator**.

Information
The specified working time was determined specifically for carrying out this campaign and may differ from the working times published in the Labor Operation List in PIWIS.

Working time:

Checking function of coolant regulator and replacing it — Labor time: **267 TU**

Includes:
- Checking coolant regulator
- Removing and installing coolant regulator
- Draining and filling coolant
- Removing and installing air cleaner
- Connecting and disconnecting battery charger
- Connecting and disconnecting PIWIS Tester
- Reading out and erasing fault memory

Parts required:

000.043.209.36	Thermostat insert (coolant regulator)	1 ea.
9A1.106.305.00	Seal for thermostat	1 ea.
900.123.007.30	Sealing ring	1 ea.
000.043.205.93	Grease (100g container)	0.01 ea. (= 1 gram of grease)
000.043.301.47	Antifreeze (1-liter container)	0.1 ea. (= 0.1 liter)

⇒ **Damage code WD69 066 000 2**

References: ⇒ *Workshop Manual '4X00IN Lifting the vehicle'*
⇒ *Workshop Manual '195819 Removing and installing coolant regulator'*

Dealership Distribution Routing	Service Manager	_____	Shop Foreman	_____	Service Technician	_____	_____	_____	_____
	Asst. Manager	_____	Warranty Admin.	_____	Service Technician	_____	_____	_____	_____