Coolant Loss in the Body Front Section / Engine Compartment Area - Locate and Eliminate Cause of Coolant Loss (60 / 22)

Change overview:

Release	Date	Change
0	05/27/2022	• First publication
1	07/26/2024	• Update of labor operation

Model Line: **Macan (95B)**

Model Year: **As of 2014**

Concerns: **Coolant leak on coolant regulator housing or coolant pump**

Customer complaint:

- "Fill coolant" warning message is displayed in the instrument cluster
- Clear traces of coolant can be seen under the vehicle in the body front section/engine compartment area

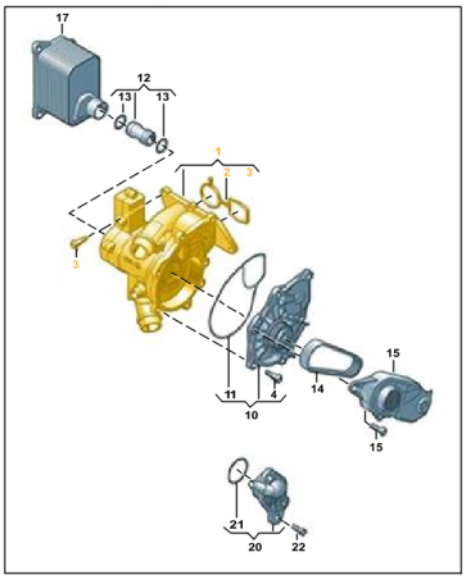
Workshop determination:

- The leak can be clearly verified by means of a check
- The cause of the coolant loss is clearly in the "coolant regulator housing" area or clearly in the "coolant pump" area

Information: **Avoid incorrect replacement of coolant regulator and / or coolant pump.**

Technical background:

Clearly locate the coolant loss on the coolant regulator housing ⇒*Parts drawing* **-1-** or on the coolant pump ⇒ *Parts drawing* **-10-**.



Parts drawing

Date of Introduction:
- Coolant regulator: as of vehicle production date March 8, 2019
- Coolant pump: as of vehicle production date June 16, 2020

Action required:

Information

The coolant loss must **clearly** be in the coolant regulator housing area or in the coolant pump area.

Limit the exact leak. Check the cooling system for leaks according to ⇒*Workshop Manual '190101 Check cooling system (R4)'*.

Only repair the coolant regulator housing or the coolant pump in accordance with the following boundary conditions:

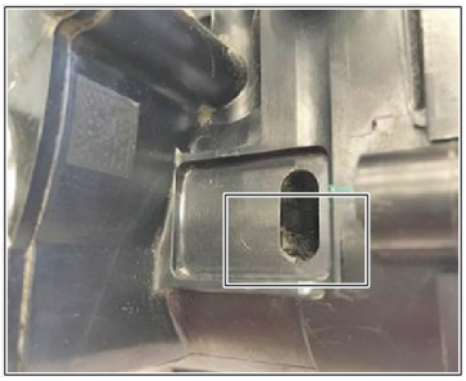
- If other leaks or causes of complaints can be ruled out by the pressure and visual inspection in accordance with the Workshop Manual
- If a customer complains that there is a loss of coolant or the request to fill coolant is present in the instrument cluster
- If the coolant regulator housing or coolant pump is found to be the clear cause

Work Procedure:

Information

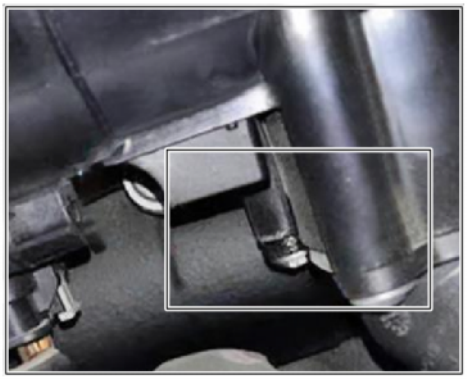
If only **slight traces of coolant** (dry white deposits) are visible **on the components and there is no specific customer complaint,replacing components is generally not justified**.

Example 1: Slight traces of coolant using the type of coolant regulator without a leakage tank as an example ⇒ *Slight traces of coolant (old type of coolant regulator without a leakage tank)*.



Slight traces of coolant (old type of coolant regulator without a leakage tank)

Example 2: Slight traces of coolant using the type of coolant regulator with a leakage tank as an example ⇒ *Slight traces of coolant (current type of coolant regulator with a leakage tank)*.



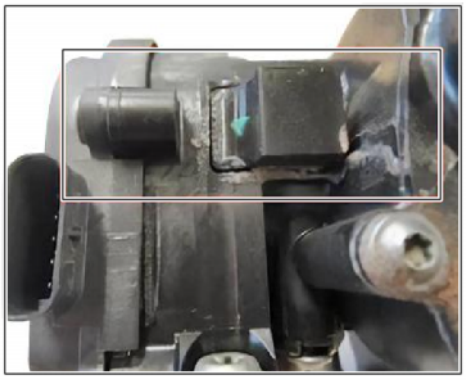
Slight traces of coolant (current type of coolant regulator with a leakage tank)

Only replace the component causing the leak (coolant pump or coolant regulator).
The specified repair depth of the cooling module must be observed. If the coolant pump or coolant regulator is not affected by a leak, this component must **not** be replaced under warranty or goodwill.

- **Example of a leak at the coolant regulator**

In this example, there is a leak in the coolant regulator and **not** in the coolant pump ⇒*Leaks at the coolant regulator close to the leakage tank*. Replace the coolant regulator if the customer complains about it. ⇒*Workshop Manual '195519 Remove and install coolant regulator housing (R4)'*

- **Example of a leak at the coolant pump**



Leaks at the coolant regulator close to the leakage tank

Unambiguous loss of coolant at the coolant pump close to the radial shaft seal ring ⇒*Leaks on the coolant pump close to the radial shaft seal ring*. There is a leak in the coolant pump and **not** in the coolant regulator. Replace the coolant pump if the customer complains. ⇒*Workshop Manual '195019 Removing and install coolant pump (R4)'*

Leaks on the coolant pump close to the radial shaft seal ring

Required parts, materials and tools

Parts Info: **Parts required for exchanging the coolant regulator:**

Part No.	Designation – Location	Number
PAC121111C	⇒ Coolant regulator – Cooling system	1 piece
WHT004973	⇒ O-ring 18 x 3 – Coolant regulator	2 pieces

Parts required for exchanging the coolant pump:

Part No.	Designation – Location	Number
PAC121012B	⇒ Coolant pump – Cooling system	1 piece
PAC121043	⇒ Moulded seal – Coolant pump	1 piece

Materials: **Required materials** (usually already available at the Porsche dealer):

Part No.	Designation	Quantity
00004330516	⇒ Coolant additive	20-liter / 5.28 gal container (As much as required)

Tool:

- **9696 - 9696 - Filling device**
- **V.A.G 1274/10 - Pipe for coolant tester**
- **V.A.G 1274/8 - Adapter for cooling system tester**
- **T10360 - T10360 - Socket tool, a/f 12**

Invoicing

Please note that repairs (coolant regulator or coolant pump) must only be carried out as described in the TI if there is clear documentation as shown in the sample illustrations and the corresponding workshop findings.

If the application meets the comprehensible documentation criteria, this leads to quick and uncomplicated processing and remuneration. In addition, comprehensible documentation reduces the error rate in a Porsche Service Analysis.

For documentation and invoicing in the event of a guarantee, state the work items required depending on the scope of work required and the specified PCSS encryption in the Warranty Claim:

APOS	Labor operation	I No.
19010100	Check cooling system	
19501940	Remove and install coolant pump	
19501910	Remove and install coolant pump	
19551940	Remove and install coolant regulator housing	
19551910	Remove and install coolant regulator housing	

PCSS encryption:

Location (FES5)	19550	Coolant regulator housing
Damage type (SA4)	5014	Coolant leak

References: ⇒ *Workshop Manual '190101 Check cooling system (R4)'*

⇒ *Workshop Manual '195019 Removing and install coolant pump (R4)'*

⇒ *Workshop Manual '195519 Remove and install coolant regulator housing (R4)'*