

Eliminating Symptoms - Engine: Reworking Coolant Pipe (Loss of coolant at the coolant pipe/SY1416)

General information

Model Lines: Sports Cars (981/991)

Model Year: **As of 2014 up to 2016**

Symptom: Customer complaint about loss of coolant, visible on the underside of the engine/where the vehicle was parked. Sometimes a yellow warning comes on in the instrument cluster with the information message — "Refill coolant Observe engine temperature".

Cause: Component tolerances between the coolant pipe flange and distributor housing can cause leaks.

Remedial action: In the event of a customer complaint, install additional "water tube retaining bar".

Parts Info: 9A1.106.338.00 **NEW** ⇒ Water tube retaining bar
 900.385.270.01 ⇒ Screws (3 ea. required - M6 x 35)

Tools: Torque wrench, 6 - 50 Nm (4.5 - 37 ftlb.), e.g. **V.A.G 1331 - Torque wrench, 6-50 Nm (4.5-37 ftlb.)**

Work Procedure: 1 Remove cover for rear underbody. ⇒ *Workshop Manual '519419 Removing and installing cover for rear underbody'*



Hot fluid

- **Danger of scalding**
- ⇒ **Let the fluid cool down.**
- ⇒ **Wear personal protective gear.**



Caustic fluids

- **Danger of chemical burns**
- ⇒ **Wear personal protective gear.**
- ⇒ **Ensure that there is good ventilation.**
- ⇒ **Avoid contact with caustic fluid.**

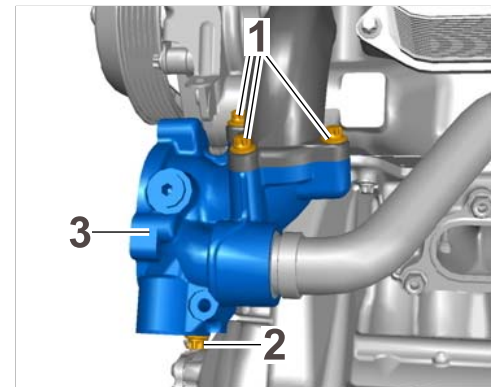
⇒ If you do come into contact, wash off immediately with plenty of warm water and contact a doctor if necessary.



Information

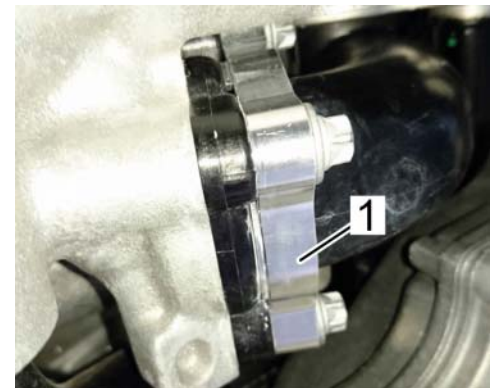
The coolant does not need to be drained in order to carry out this work as the coolant pipe is not removed and the cooling system is not opened.

- 2 Unscrew screws ⇒ *Coolant pipe on coolant regulator housing -1-* on the coolant regulator housing
⇒ *Coolant pipe on coolant regulator housing -3-*.

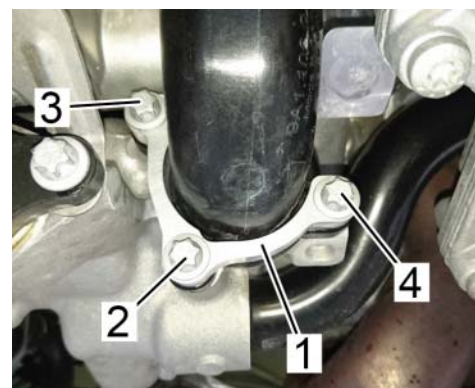


Coolant pipe on coolant regulator housing

- 3 Clean sealing surface for water tube retaining bar on the flange thoroughly with a cloth.
- 4 Install water tube retaining bar ⇒ *Installing water tube retaining bar -1-*, Part No.: 9A1.106.338.00, using **new** longer screws (M6 x 35), Part No.: 900.385.270.01.
- 5 Tighten screws ⇒ *Screwing in screws -2 to 4-* in the sequence ⇒ *Screwing in screws -2, 3, 4-*.
Tightening torque 13 Nm (9.5 ftlb.)
- 6 Re-tighten screws ⇒ *Screwing in screws -2 to 4-* again in the same sequence. ⇒ Tightening torque 13 Nm (9.5 ftlb.)



Installing water tube retaining bar



Screwing in screws

- 7 Install cover for rear underbody. ⇒ *Workshop Manual '519419 Removing and installing cover for rear underbody'*



Information

- Check the engine coolant level and only add coolant if necessary.

- 8 Check engine coolant level and add coolant if necessary. ⇒ *Workshop Manual '1938A8 Filling coolant'*

Invoicing: The work involved is invoiced under the labor operation:

APOS	Labor operation	I No.
19554900	Reworking coolant regulator housing	

For invoicing and documentation using PQIS, enter the following coding:

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

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