

Operating Noises of Additional Coolant Pump Audible in Passenger Compartment

Revision: This bulletin replaces bulletin Group 1, 1/04, dated May 25, 2004

Model Year: **As of 2003**

Vehicle Type: **Cayenne S/Cayenne Turbo**

Concerns: **Wires and holder of additional coolant pump.**

Information: **Additional coolant pump audible in passenger compartment.**

The operating noises of the additional coolant pump can be audibly transmitted via the holders to the passenger compartment.

The cause of the noise transmission is insufficient acoustic isolation in the area of the holder contact surface on the body and in the area of the wire contact surfaces on the holders.

With effect from the stated dates of introduction, the holders will be installed with foam rubber strips in these areas for better acoustic isolation.

On vehicles produced before the stated dates of introduction, the foam rubber strips must be affixed to the brake light switch retainer whenever there is a customer complaint.

8 foam rubber strips are required per vehicle with dimensions 20 x 25 mm/ 0.79 in x 0.98 in.

A sealing band is available from the parts department and can be used to produce foam rubber strips for a total of 4 vehicles.

Date of Introduction: March 17, 2004, as from the following VINs

9P 54L A7 5273 Cayenne S/USA

9P 04L A9 4181 Cayenne Turbo/USA

Parts Info: 000.043.203.29 Sealing band, dimensions 730 x 25 x 5 mm/ 28.74 in x 0.98 in x 0.2 in (sufficient for 4 vehicles)

000.043.157.00 Cleaning agent, 30 ml/ 1 oz

Tools:

- Crosshead screwdriver (medium) — locally available
- Socket wrench insert 10 mm — locally available
- Changeover ratchet 1/4" — locally available
- Torx wrench T25 — locally available
- Torx wrench T30 — locally available
- Torque wrench 0-50 Nm (0 - 37 ftlb.) — locally available
- Cleaning agent — locally available
- Grease and lint-free cloth — locally available
- Scissors/knife — locally available

Work **Applying foam rubber strips for acoustic isolation.**

Procedure:

- 1 Raise the vehicle on a lifting platform at the take-up points provided, see ⇒ *Workshop Manual '40 Lifting the vehicle'*.
- 2 Remove left front wheel, see ⇒ *Workshop Manual '440519 Removing and installing wheel'*.
- 3 Remove front left wheel housing liner, see ⇒ *Workshop Manual '505619 Removing and installing front wheel housing liner'*.

WARNING

Burns caused by touching hot coolant lines.

- Coolant lines can be very hot.
- ⇒ Wear protective gear if necessary.

- 4 Remove lower holder (⇒ *Figure 1 - , Arrow-*).

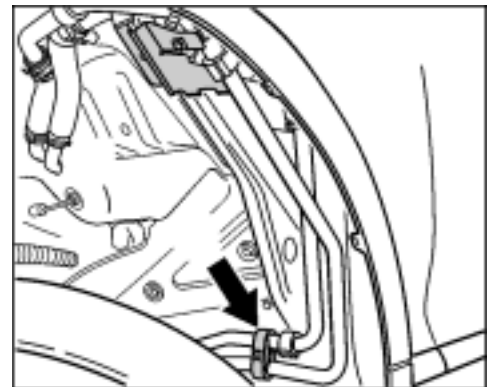


Figure 1

- 4.1 Unscrew the screw on the fixing clip (⇒ *Figure 2-*, **Arrow A-**) for securing the lines to the holder.
 - 4.2 Unscrew the screw on the holder (⇒ *Figure 2-*, **Arrow B-**) for securing the holder to the body and remove the holder.
- 5 **Work on lower holder.**

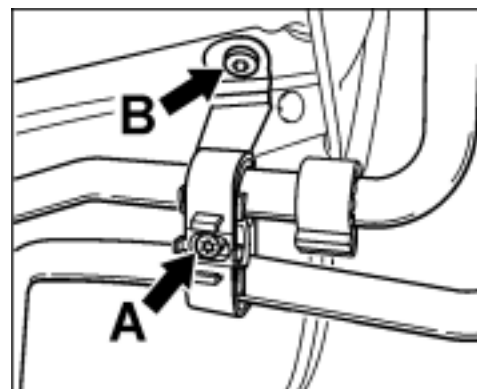


Figure 2

CAUTION

Insufficient adhesive effect of foam rubber strips on dirty bonding surfaces.

⇒ Clean the bonding surfaces on the holder with a cleaning agent and a grease and lint-free cloth.

- 5.1 Cut off 2 foam rubber strips from the sealing band, each measuring 20 mm/ 0.79 in in length.
- 5.2 Pull protective film off the bonding area of foam rubber strips.
- 5.3 Affix both foam rubber strips on the holder as shown in ⇒ *Figure 3*.

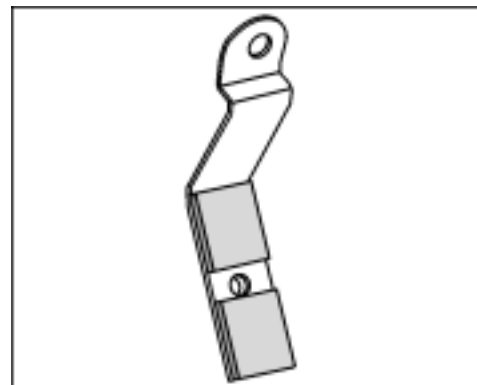


Figure 3

- 6 **Loosen upper holder** (⇒ *Figure 4-*, **Arrow-**).

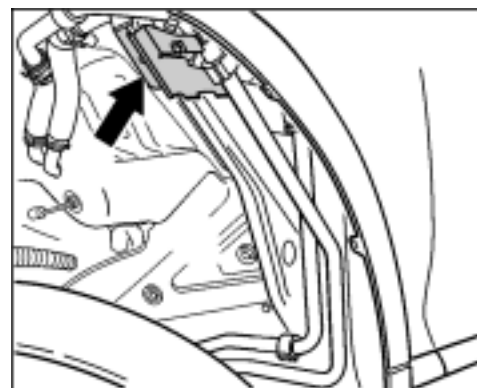
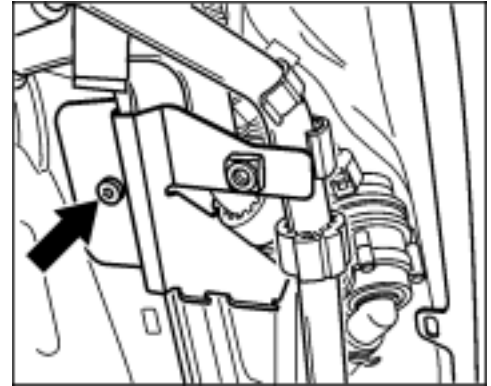


Figure 4

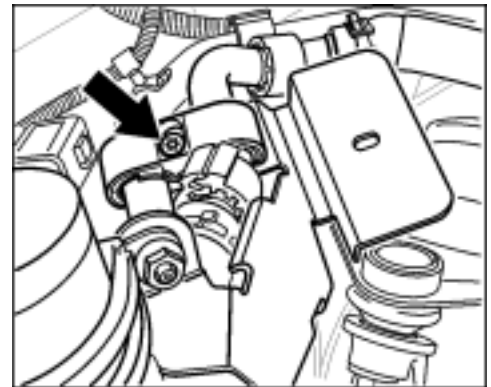
- 6.1 Unscrew the screw on the holder (⇒ *Figure 5* -, **Arrow**-) for securing the holder to the body.
- 6.2 Pull the holder and wires, together with the additional coolant pump under the wing, until the screw on the wire fixing clip is accessible (see ⇒ *Figure 6*).

*Figure 5*

- 6.3 Unscrew the screw on the fixing clip (⇒ *Figure 6* -, **Arrow**-) for securing the lines to the holder.

**Information**

The holder does not need to be removed further, the foam rubber strips can be affixed on the holder in this position.

*Figure 6***7 Work on upper holder.** **CAUTION**

Insufficient adhesive effect of foam rubber strips on dirty bonding surfaces.

- ⇒ Clean the bonding surfaces on the holder with a cleaning agent and a grease and lint-free cloth.

- 7.1 Cut off 6 foam rubber strips from the sealing band, each measuring 20 mm/ 0.79 in in length.
- 7.2 Pull protective film off the bonding area of foam rubber strips.
- 7.3 Affix the 6 foam rubber strips on the holder as shown in ⇒ *Figure 7*.

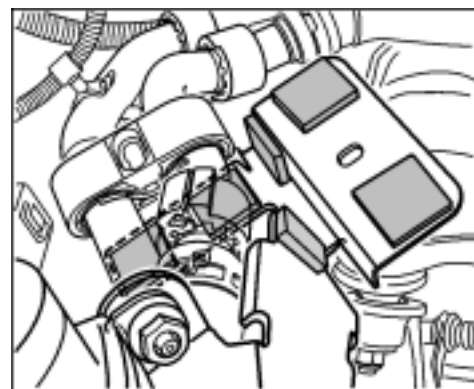


Figure 7

8 **Secure upper holder.**

- 8.1 Screw in the screw on the fixing clip for securing the wires to the holder and tighten (**Tightening torque 3.5 Nm (2.5 ftlb.)**).
- 8.2 Swivel the holder and wires together with the additional coolant pump upward under the wing until the holder is located at its installation position on the body.
- 8.3 Screw in the screw on the holder for securing the holder to the body and tighten (**Tightening torque 10 Nm (7.5 ftlb.)**).

9 **Secure lower holder.**

- 9.1 Screw in the screw on the holder for securing the holder to the body and only make light contact so that the position of the holder can be adjusted, if necessary, when securing the wires.
- 9.2 Screw in the screw on the fixing clip for securing the wires to the holder and tighten (**Tightening torque 3.5 Nm (2.5 ftlb.)**).
- 9.3 Tighten the screw for securing the holder to the body (**Tightening torque 10 Nm (7.5 ftlb.)**).

- 10 Check the position of the rubber ring (⇒ *Figure 8*-, **Arrow A-**) in the area of the upper holder and adjust it if necessary. The rubber ring must be located at the height of the sheetmetal seam (⇒ *Figure 8*-, **Arrow B-**) on the unpainted bodyshell.

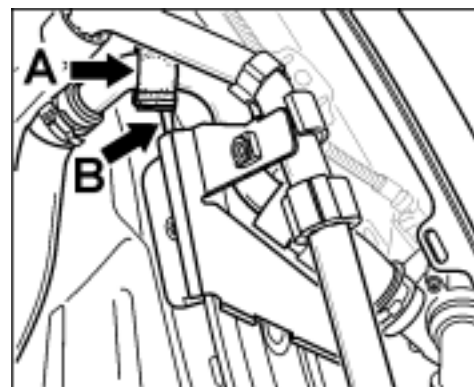


Figure 8

- 11 Check the position of the rubber ring (⇒ *Figure 9*-, **Arrow A**-) in the area of the lower holder and adjust it if necessary. The rubber ring must be located at the height of the sheetmetal seam (⇒ *Figure 9*-, **Arrow B**-) on the unpainted bodyshell.
- 12 Install front left wheel housing liner.
- 13 Install left front wheel.
- 14 Remove vehicle from the lifting platform.

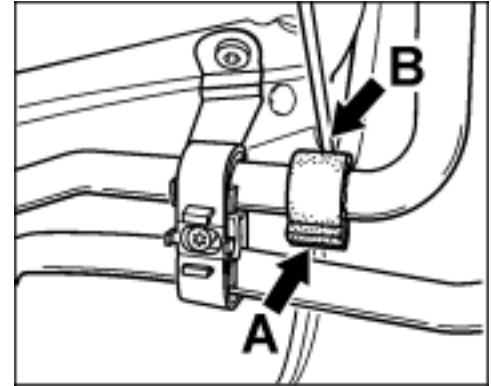


Figure 9

Working Time: 19454900: Reworking additional coolant pump Labor time: **80 TU**
 Includes: Removing and installing wheel; removing and installing front wheel housing liner

19454950: Reworking additional coolant pump - composite work: Wheel removed Labor time: **50 TU**
 Includes: Removing and installing front wheel housing liner

References: ⇒ *Workshop Manual '40 Lifting the vehicle'*
 ⇒ *Workshop Manual '440519 Removing and installing wheel'*
 ⇒ *Workshop Manual '505619 Removing and installing front wheel housing liner'*

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