

WLC7 - Replacing Lower Pressure Pipe (Workshop Campaign)

Vehicle Type: **Macan S (95B)**

Model Year: **As of 2019 up to 2020**

Subject: **Lower pressure pipe between the charge-air coolers**

Information: **A pressure pipe, which does not comply with the specifications in terms of installation position and size, may be installed between the charge-air coolers on the affected vehicles.**

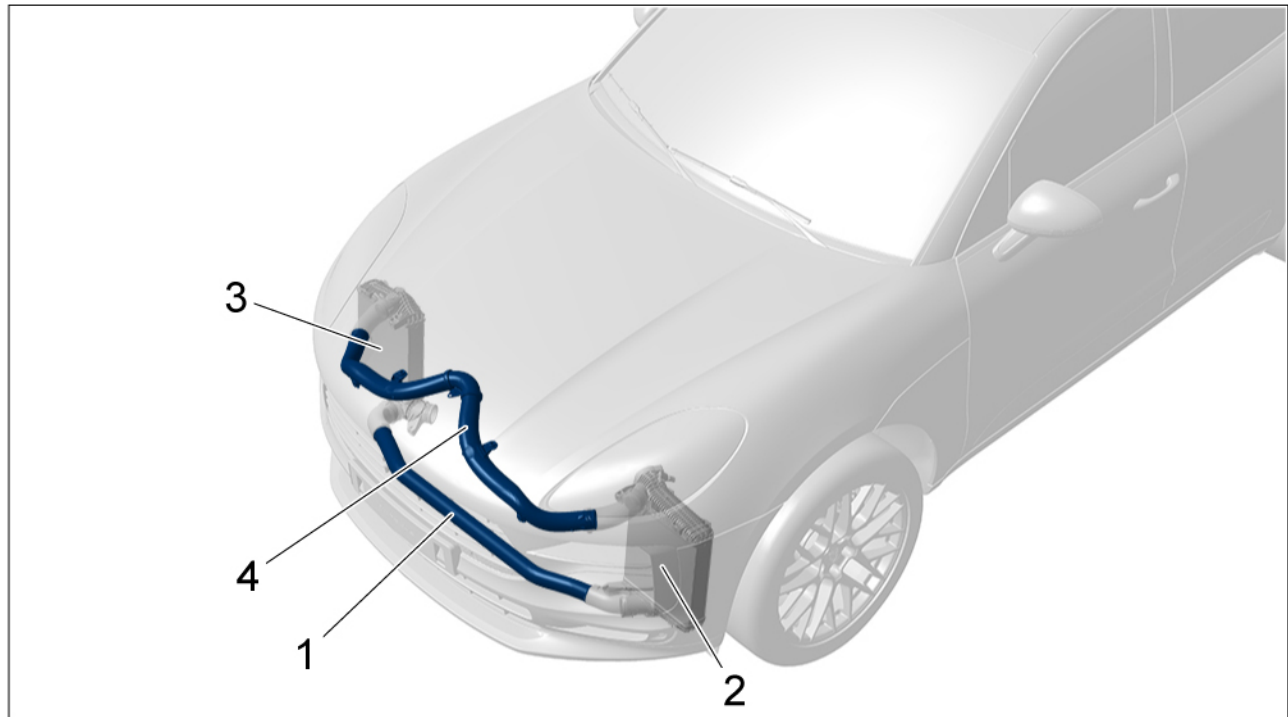
This can cause vibrations and noises in the medium rev range at high engine load.

Remedial Action: Replace lower pressure pipe between the charge-air coolers with an optimized pressure pipe. Also check the installation position of the other components of the charge-air cooling system and correct it if necessary.

Affected Vehicles: Only vehicles assigned to the campaign (see also PCSS Vehicle Information). There are 284 vehicles affected by this campaign.

Installation

Position:

*Installation position overview*

- 1 – Lower pressure pipe (**replace**)
- 2 – Left charge-air cooler
- 3 – Right charge-air cooler
- 4 – Upper pressure pipe (**check installation position**)

Parts required

Parts Info:	Part No.	Designation – Use	Qty.
	00004391196	⇒ Lower pressure pipe – Left charge-air cooler to right charge-air cooler	1 ea.
	N 10518901	⇒ Hose clamp, 50–70 x 12 mm – Pressure pipe to charge-air cooler	2 ea.
	PAF106322	⇒ Internal hexagon round-head bolt – Pressure pipe to holder	2 ea.

PAB129669B	⇒ Sleeve – Pressure pipe to holder	2 ea.
PAB129734B	⇒ Spacer – Pressure pipe to holder	2 ea.
N 91173301	⇒ Hexagon nut – Pressure pipe to holder	2 ea.

Required tools

- Tools:
- Torque wrench, 2–10 Nm (1.5–7.5 ftlb.), e.g. **VAG 1783 Torque wrench, 2-10 Nm (1.5-7.5 ftlb.)**
 - Torque screwdriver, 1.5–3 Nm (1–2 ftlb.), e.g. **VAS 6494 Torque screwdriver, 1.5-3.0 Nm (1-2 ftlb.)**

Replacing lower pressure pipe between the charge-air coolers

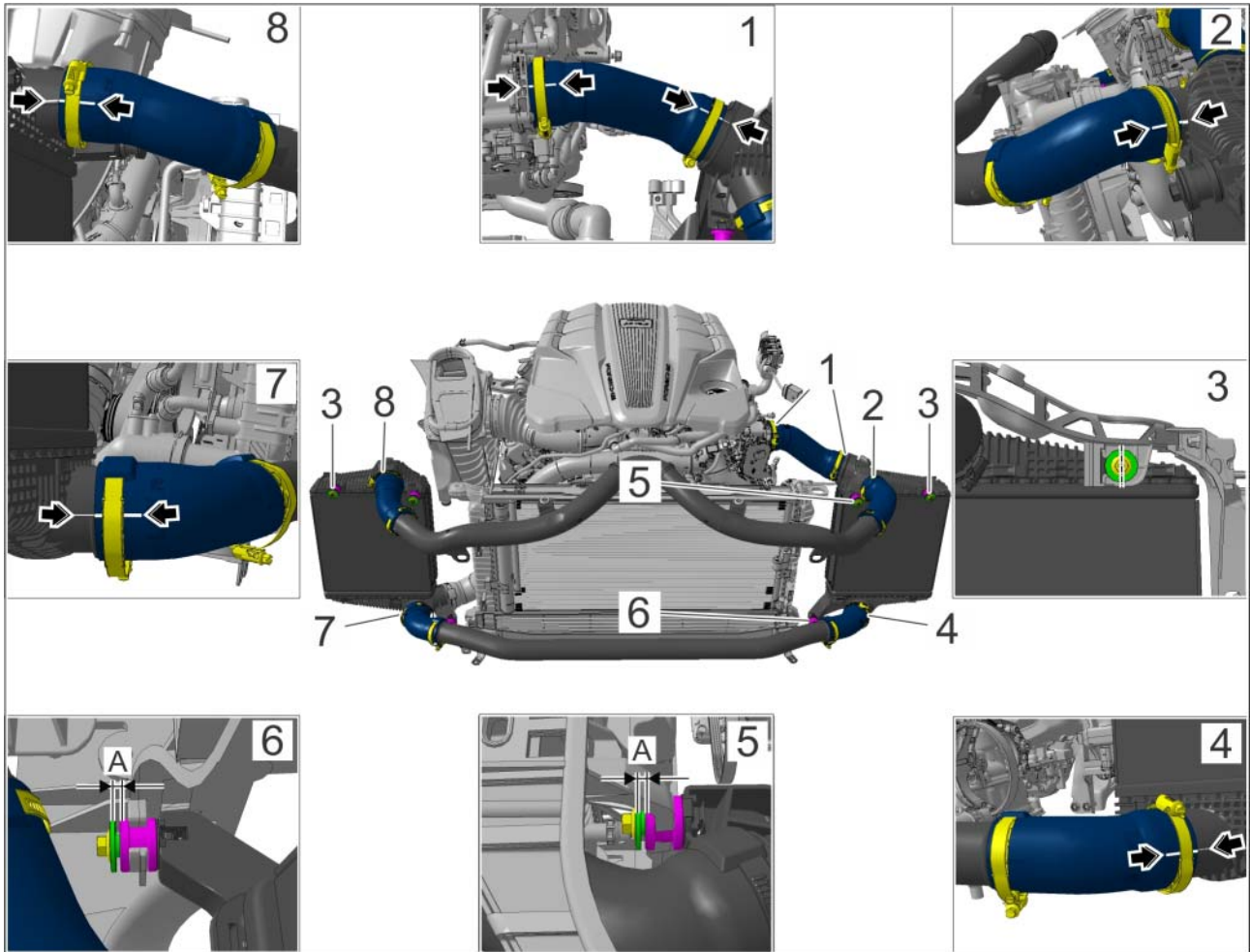
- Work Procedure:
- 1 Raise the vehicle using a lifting platform ⇒ *Workshop Manual '4X00IN Lifting the vehicle'*.
 - 2 Remove cover for front underbody ⇒ *Workshop Manual '519219 Removing and installing cover for front underbody'*.
 - 3 Remove cover for front lock support ⇒ *Workshop Manual '703919 Removing and installing cover for front lock support'*.
 - 4 Remove front apron ⇒ *Workshop Manual '631519 Removing and installing front apron'*.
 - 5 Remove pedestrian protection.
 - 5.1 Remove ventilation guides at the left and right ⇒ *Workshop Manual '661319 Removing and installing ventilation guide'*.
 - 5.2 Remove pedestrian protection ⇒ *Workshop Manual '697019 Removing and installing pedestrian protection'*.



Information

To prevent vibrations and noises while driving, all components of the charge-air cooling system must always be installed without tension at normal position and in accordance with the installation specifications.

- 6 Remove lower pressure pipe and install new lower pressure pipe with optimized fastening concept.
Always observe the following installation specifications:



Mounting specification for charge-air cooler and pressure hoses

- A** – Distance from sleeve on bearing to rubber sleeve at least **3.0 mm**
- Arrows** – Markings on the pressure hoses and charge-air cooler/throttle valve
- 1** – Markings on the pressure hose must be aligned with the groove on the throttle valve and on the charge-air cooler.
 - 2** – Marking on the pressure hose must be aligned with the groove on the charge-air cooler.
 - 3** – The center point of the screw head must be centered in the bearing (deviation permitted only in the center of the vehicle)
 - 4** – Marking on the pressure hose must be aligned with the groove on the charge-air cooler.
 - 5** – Sleeve on the bearing must protrude forward from the rubber sleeve in idle state.
 - 6** – Sleeve on the bearing must protrude forward from the rubber sleeve in idle state.
 - 7** – Marking on the pressure hose must be aligned with the groove on the charge-air cooler.
 - 8** – Marking on the pressure hose must be aligned with the groove on the charge-air cooler.

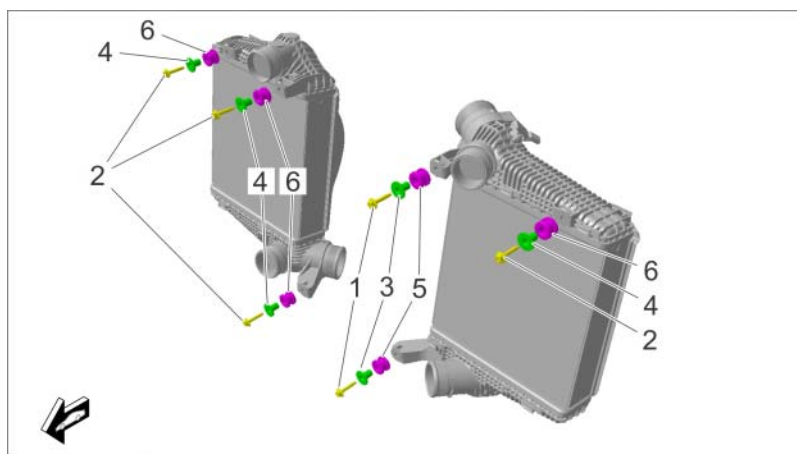
For instructions, see ⇒ *Workshop Manual '214119 Removing and installing pressure pipe (V6 monoturbo)'*.

Part No.	Designation	Qty.
00004391196	Pressure pipe, bottom	1 ea.
N 10518901	Hose clamp, 50–70 x 12 mm	2 ea.
PAF106322	Internal hexagon round-head bolt	2 ea.
PAB129669B	Sleeve	2 ea.
PAB129734B	Spacer	2 ea.
N 91173301	Hexagon nut	2 ea.

7 **Check installation position** of the following components according to the **installation specifications** listed above and correct it if necessary:

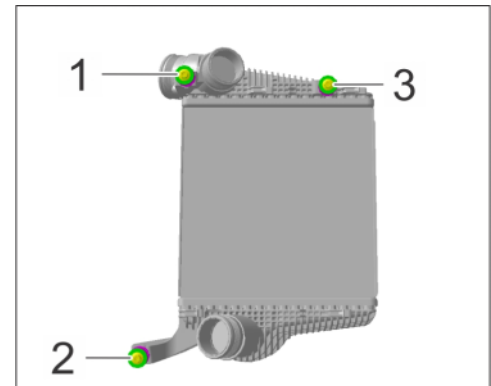
- Pressure pipe, top
- Left charge-air cooler
- Right charge-air cooler
- Pressure pipe between throttle valve and charge-air cooler

In addition to the installation specifications listed above, also observe the following specifications for installing the charge-air coolers:



Component overview of charge-air cooler - V6 monoturbo

- 1 – Screws, M6 x 40
- 2 – Screws, M6 x 35
- 3 – Sleeve/total Length: 26.2 mm
- 4 – Sleeve/total Length: 21.2 mm
- 5 – Grommet
- 6 – Grommet



*Tightening sequence for charge-air cooler
(shown on left charge-air cooler)*

1-3 – Tightening sequence:

For instructions for loosening and securing the components, see:

⇒ *Workshop Manual '214119 Removing and installing pressure pipe (V6 monoturbo)'*

⇒ *Workshop Manual '214319 Removing and installing charge-air cooler (V6 monoturbo)'*

- 8 Install pedestrian protection.
 - 8.1 Install pedestrian protection ⇒ *Workshop Manual '697019 Removing and installing pedestrian protection'.*
 - 8.2 Install ventilation guides at the left and right ⇒ *Workshop Manual '661319 Removing and installing ventilation guide'.*
- 9 Install front apron ⇒ *Workshop Manual '631519 Removing and installing front apron'.*
- 10 Install cover for front lock support ⇒ *Workshop Manual '703919 Removing and installing cover for front lock support'.*
- 11 Install cover for front underbody ⇒ *Workshop Manual '519219 Removing and installing cover for front underbody'.*
- 12 Lower the vehicle and remove it from the lifting platform.
- 13 Enter the campaign in the Warranty and Maintenance booklet.

Warranty processing



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.

Scope 1: **Replacing lower pressure pipe between the charge-air coolers**

Working time:

Replacing lower pressure pipe

Labor time: **199 TU**

- Includes:
- Raising and lowering the vehicle
 - Removing and installing cover for front underbody
 - Removing and installing cover for front lock support
 - Removing and installing front apron
 - Removing and installing pedestrian protection
 - Checking installation position of upper pressure pipe and correcting it if necessary
 - Checking installation position of the charge-air coolers and correcting it if necessary

Parts required:

00004391196	Pressure pipe, bottom	1 ea.
N 10518901	Hose clamp, 50–70 x 12 mm	2 ea.
PAF106322	Internal hexagon round-head bolt	2 ea.
PAB129669B	Sleeve	2 ea.
PAB129734B	Spacer	2 ea.
N 91173301	Hexagon nut	2 ea.

⇒ **Damage Code WLC7 066 000 2**

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