

## Technical Information

Service

180/18 ENU 1582

# Complaint - Cylinder Head Cover Near the Injector Holes Leaking: Subsequent Work on Cylinder Head (180/18)

#### Change overview:

Version	Date	Change
0	12/02/2019	First publication
1	01/08/2021	Checking for leaks at the solenoid hydraulic valve for valve lift control is no longer required
2	01/16/2021	Work procedure under Step 2.1 adapted.
3	02/21/2023	Order types added, invoicing updated
4	07/13/2023	Order types added

#### Vehicle Type: Macan S (95B) / Macan GTS (95B) / Macan Turbo (95B)

- Model Year: As of 2019
- Concerns: Cylinder head cover

Cause:

#### Complaint about injector hole leaks

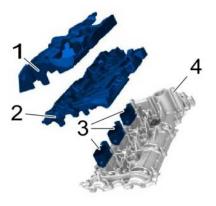
### Information

- Due to a batch error in the casting procedure there may be cast residue in the cylinder head cover sealing groove.
- This cast residue may be the reason for leaks in the injector holes.

In the event of a complaint, the corresponding position of the leak(s) must be located **before doing any other work** and then rectified on a case-by-case basis, see section "**Work procedure**".

## Service 1582 ENU 180/18

Work Procedure: - Cylinder head cover component overview:



Cylinder head cover component overview 1 – Insulation on top of cylinder head

- Insulation on top of cylinder head cover
- Insulation on bottom of cylinder head cover
- Hydraulic valve for valve lift switchover
- 4 Cylinder head cover

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- Information
- Other electric plug connections and line guides must be disconnected to remove the cylinder head cover sound insulation.

#### 1 Identify the cause of the leak(s):

- 1.1 Remove engine cover, see  $\Rightarrow$  Workshop Manual '108319 Removing and installing engine cover (design cover) (V6 Turbo)'.
- 1.2 Visually check whether both cylinder head covers have leaks, then continue on the relevant cylinder head with  $\Rightarrow$  1.3.
- 1.3 Remove insulation on top of the cylinder head cover.



#### Information

If the insulation on the top of the cylinder head cover is already soaked with oil, it must be replaced.

#### 2 Subsequent work on cylinder head:

- 2.1 Remove fuel collection pipe **and** fuel injectors on the affected cylinder head, see ⇒ Workshop Manual '243019 Removing and installing fuel collection pipe' and ⇒ Workshop Manual '244019 Removing and installing fuel injector (V6 Turbo)'.
- 2.2 Remove insulation on bottom of the cylinder head cover.
- 2.3 Identify the affected cylinder(s) by a visual inspection:

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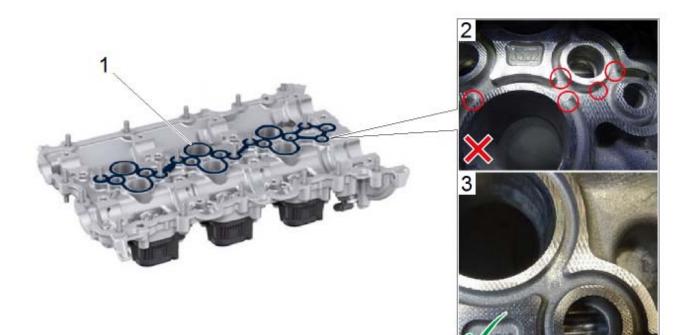
2.3.1 Oil must have collected in the vicinity of the injector of the affected cylinder and the insulation on the bottom of the cylinder head cover should be fully soaked.

 $\Rightarrow$  Fault type 2: Cylinder head cover leaking

- 2.3.2 If all affected cylinders are identified, make a note of them and continue with  $\Rightarrow 2.4$ .
- 2.4 To remove cylinder head cover and dispose of old seal, see ⇒ Workshop Manual '158219 Removing and installing cylinder head cover (V6 turbo)'.
- 2.5 Clean cylinder head cover.



- 2.6 Check the sealing groove ( $\Rightarrow$  *Cylinder head* Fault type 2: Cylinder head cover leaking cover sealing groove-1-) of the cylinder head cover visually. Be particularly meticulous when doing this especially in the vicinity of the affected cylinder.
- 2.7 Carefully remove any cast residue (⇒ Cylinder head cover sealing groove -2-) using a small flat screwdriver, ensuring that the sealing groove is not damaged. There must be no more cast residue in the sealing groove after machining (⇒ Cylinder head cover sealing groove -3-).
- 2.8 To install a new seal on the cylinder head cover, see  $\Rightarrow$  Workshop Manual '158219 Removing and installing cylinder head cover (V6 turbo)'.
- 2.9 Replace and install the insulation on the bottom of the cylinder head cover.
- 2.10 Install fuel collection pipe, see  $\Rightarrow$  Workshop Manual '243019 Removing and installing fuel collection pipe'.



Cylinder head cover sealing groove

#### 3 Subsequent work:

- 3.1 Install insulation on top of the cylinder head cover.
- 3.2 Install engine cover, see  $\Rightarrow$  Workshop Manual '108319 Removing and installing engine cover (design cover) (V6 Turbo)'.

#### Labor position and PCSS encryption

Labor position:

APOS	Labor operation	I No.
15824922	Reworking cylinder head cover cylinders 1–3	
15824921	Reworking cylinder head cover cylinders 4–6	
15824924	Reworking cylinder head cover cylinders 1–3	
15824923	Reworking cylinder head cover cylinders 4–6	

#### PCSS encryption:

Location (FES5)	15800	Cylinder head cover seal
Damage type (SA4)	5041	Oil/grease leak

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