

**Complaint - Cylinder Head Cover Near the Injector Holes Leaking: Subsequent work on cylinder head (180/18)**

Revision: **This bulletin replaces bulletin Group 1, #180/18, dated March 7, 2019.**  
This revision includes additional vehicle types.

Model Year: **As of 2017 up to 2019**

Vehicle Types: **Cayenne (9YA)/Cayenne E-Hybrid (9YA)/Cayenne S (9YA)**

Subject: **Cylinder head cover**

Information: **Complaint about injector hole leaks**

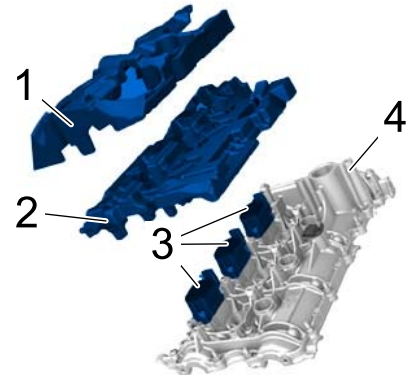


**Information**

- 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 cause the injector holes to leak.

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 "**Procedure**".

Work Procedure: – **Cylinder head cover component overview:**



*Component overview of cylinder head cover*

- 1** – Insulation on top of cylinder head cover
- 2** – Insulation on bottom of cylinder head cover
- 3** – Solenoid hydraulic valve for valve lift adjustment
- 4** – Cylinder head cover

**Information**

- Other electric plug connections and line guides must be disconnected to remove the cylinder head cover insulation.
- 1 Identify the cause of the leak(s):**
    - 1.1 To remove air filter housing, see ⇒ *Workshop Manual '242519 Removing and installing air filter housing'*.
    - 1.2 Look to see whether both cylinder head covers have leaks, then continue on the relevant cylinder head with ⇒ 1.3.
    - 1.3 Remove insulation on top of the cylinder head cover.
    - 1.4 To remove valve lift adjustment solenoid hydraulic valves, see ⇒ *Workshop Manual '155519 Removing and installing valve lift adjustment solenoid hydraulic valve (V6 turbo)'*.
    - 1.5 Look and see whether there is a large quantity of oil under the valve lift adjustment solenoid hydraulic valve, see ⇒ *Fault type 1: Valve lift adjustment solenoid hydraulic valve leaking*.  
**If so:**
      - O-ring on valve lift adjustment solenoid hydraulic valve is responsible for the leak(s).
      - Clean the engine compartment and replace the affected solenoid hydraulic valve(s) with O-rings.
      - If the insulation on the top of the cylinder head cover is already soaked with oil, this must be replaced too.
      - With ⇒ 3 continue.**If not:**
      - The valve lift adjustment solenoid hydraulic valves are not the cause of the leak(s).
      - Continue with ⇒ 2.



*Fault type 1: Valve lift adjustment solenoid hydraulic valve leaking*

**2 Subsequent work on cylinder head cover:**

2.1 To remove fuel collection pipe on the affected cylinder head, see ⇒ *Workshop Manual '243019 Removing and installing fuel collection pipe (V6 turbo)'*.

2.2 Remove insulation on bottom of the cylinder head cover.

**2.3 Identify the affected cylinder(s) by a visual inspection:**

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.

⇒ *Fault type 2: Cylinder head cover leaking*

2.3.2 If all affected cylinders are identified, make a note of them and continue with ⇒ 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 (⇒ *Cylinder head 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-*).

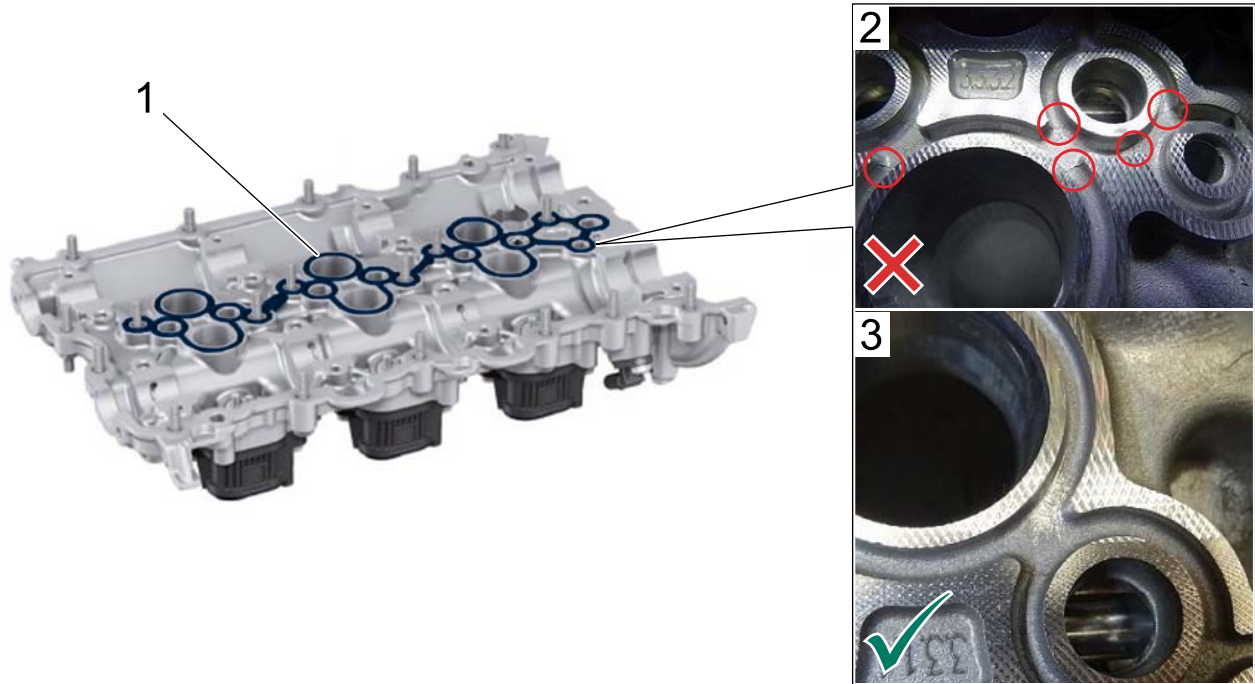
2.8 To install a new seal on the cylinder head cover, see ⇒ *Workshop Manual '158219 Removing and installing cylinder head cover (V6 turbo)'*.

2.9 Replace and install the insulation on the bottom of the cylinder head cover.

2.10 To install fuel collection pipe, see ⇒ *Workshop Manual '243019 Removing and installing fuel collection pipe (V6 Turbo)'*.



*Fault type 2: Cylinder head cover leaking*



*Cylinder head cover sealing groove*

**3 Subsequent work:**

- 3.1 To install valve lift adjustment solenoid hydraulic valves, see ⇒ *Workshop Manual '155519 Removing and installing valve lift adjustment solenoid hydraulic valves (V6 turbo)'*.
- 3.2 Install insulation on top of the cylinder head cover.
- 3.3 To install air filter housing, see ⇒ *Workshop Manual '242519 Removing and installing air filter housing'*.

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

| APOS     | Labor operation   | I No. |
|----------|---|-------|
| 15824912 | Reworking cylinder head cover on cylinders 1-3 (9YAAA1, 9YAAE1) |       |
| 15824911 | Reworking cylinder head cover on cylinders 4-6 (9YAAA1, 9YAAE1) |       |
| 15824914 | Reworking cylinder head cover on cylinders 1-3 (9YAAA1, 9YAAE1) |       |
| 15824913 | Reworking cylinder head cover on cylinders 4-6 (9YAAA1, 9YAAE1) |       |
| 15824922 | Reworking cylinder head cover on cylinders 1-3 (9YABB1)         |       |
| 15824921 | Reworking cylinder head cover on cylinders 4-6 (9YABB1)         |       |
| 15824924 | Reworking cylinder head cover on cylinders 1-3 (9YABB1)         |       |
| 15824923 | Reworking cylinder head cover on cylinders 4-6 (9YABB1)         |       |

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

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

- References:
- ⇒ *Workshop Manual '242519 Removing and installing air cleaner housing '*
  - ⇒ *Workshop Manual '155519 Removing and installing solenoid hydraulic valve for valve lift adjustment (V6 Turbo)'*
  - ⇒ *Workshop Manual '243019 Removing and installing fuel collection pipe (V6 Turbo)'*
  - ⇒ *Workshop Manual '158219 Removing and installing cylinder head cover (V6 Turbo)'*

**Important Notice:** Technical Bulletins issued by Porsche Cars North America, Inc. are intended only for use by professional automotive technicians who have attended Porsche service training courses. They are written to inform those technicians of conditions that may occur on some Porsche vehicles, or to provide information that could assist in the proper servicing of a vehicle. Porsche special tools may be necessary in order to perform certain operations identified in these bulletins. Use of tools and procedures other than those Porsche recommends in these bulletins may be detrimental to the safe operation of your vehicle, and may endanger the people working on it. Properly trained Porsche technicians have the equipment, tools, safety instructions, and know-how to do the job properly and safely. Part numbers listed in these bulletins are for reference only. The work procedures updated electronically in the Porsche PIWIS diagnostic and testing device take precedence and, in the event of a discrepancy, the work procedures in the PIWIS Tester are the ones that must be followed.

© 2019 Porsche Cars North America, Inc.