

WPR8 - Checking Crankcase Sensor and Reworking if Necessary (Workshop Campaign)

Vehicle Type: **Cayenne S (9YA)**
Cayenne S Coupé (9YB)

Model Year: **2024**

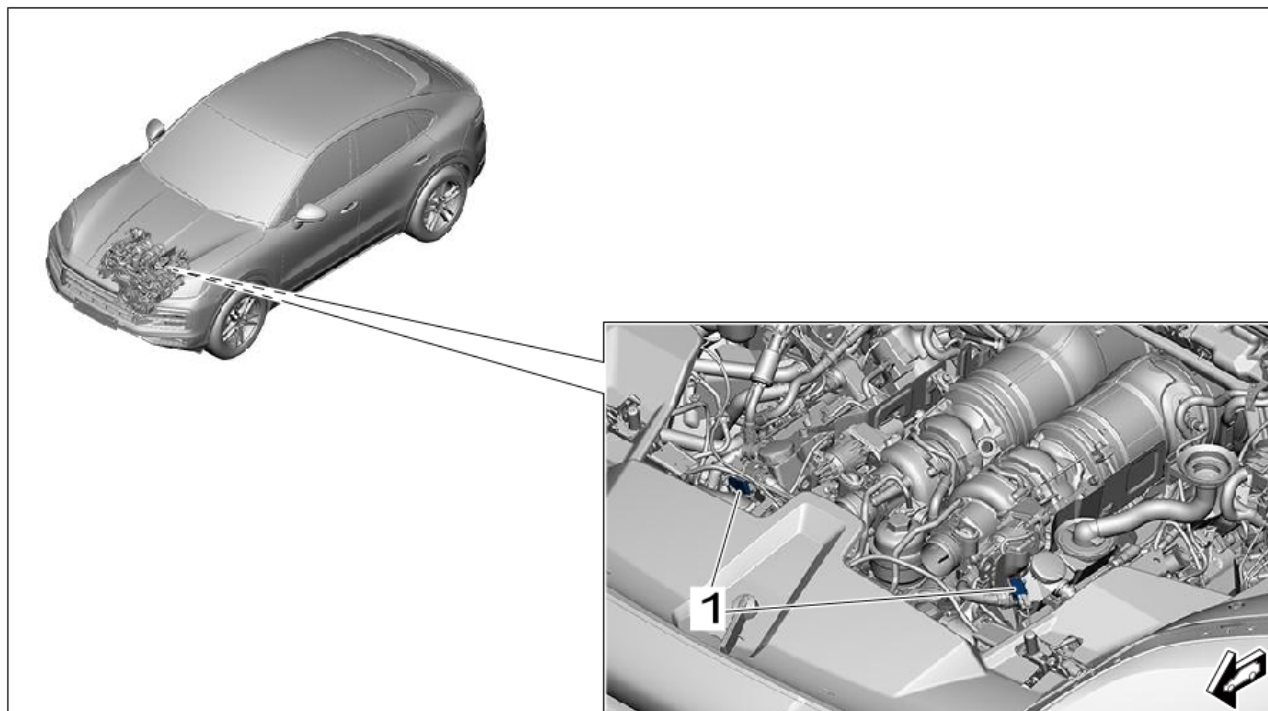
Concerns: **Crankcase sensor on cylinder bank 1 and cylinder bank 2**

Cause: **On the affected vehicles, there is a possibility that the crankcase sensors were not engaged correctly during the production run.**
 Therefore, it cannot be ruled out that damage within the sensor may occur over the vehicle service life due to the vibration load during vehicle operation. Subsequently, this can result in activation of the Check Engine light (MIL).

Action: Check crankcase sensor and rework if necessary.

Affected Vehicles: Only vehicles assigned to the campaign (see also PCSS Vehicle Information).

Installation
Position:



Installation position for crankcase sensors

1 – Crankcase sensor

Required parts



Information

No parts are required for testing and reworking the crankcase sensors.

The **part numbers** of the **required parts** for the respective vehicle can be seen in the **assigned scope**.
For an overview of the campaign scopes, see: ⇒ *Technical Information 'Warranty processing'*

Required tool

Tools:

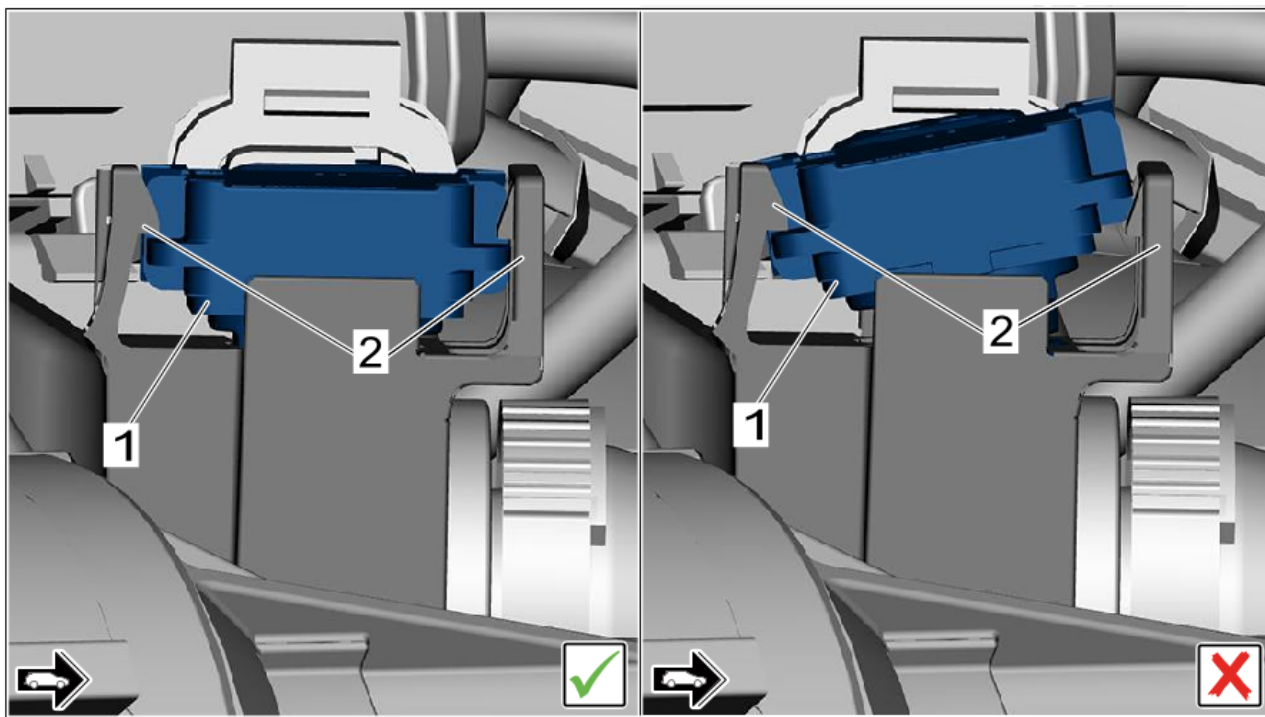
- Plastic wedge
- Torque wrench, 6–50 Nm (4.5–37 ftlb.), e.g., **V.A.G 1331A - torque wrench, 6–50 Nm (4.5–37 ftlb.)**
- Battery charger with a current rating of **at least 90 A**, e.g. **VAS 5908 - battery charger 90 A**
- **P90999 - PIWIS Tester 4**

Checking crankcase sensor on cylinder bank 1 and cylinder bank 2

Work Procedure: 1 Check if the Check Engine light (MIL) has been activated in the instrument cluster.

Assessment		Action
(✓)	Check Engine light (MIL) is not activated.	Continue with Action Step 2⇒ .
(x)	<p>Check Engine light (MIL) is activated.</p> <p>Read out the fault memory and check for the following fault memory entries:</p> <ul style="list-style-type: none"> • “P051C sensor 1 for crankcase pressure short circuit to ground” (cylinder bank 1). <p>and/or</p> <ul style="list-style-type: none"> • “P2C34 sensor 2 for crankcase pressure short circuit to ground” (cylinder bank 2). 	<p>Fault memory entry for both crankcase sensors present: Replace both crankcase sensors and oil separator.</p> <p>Continue with ⇒ <i>Technical Information 'Replacing crankcase sensor and oil separator'</i></p> <p>Fault memory entry for a crankcase sensor present: Replace the corresponding crankcase sensor and oil separator. ⇒ <i>Technical Information 'Replacing crankcase sensor and oil separator'</i></p>

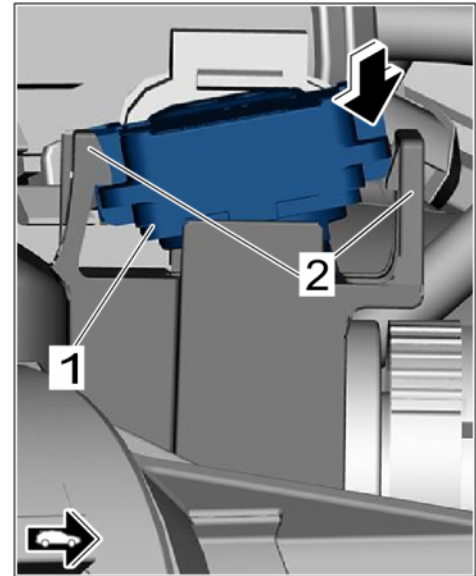
- 2 Remove air cleaner housing. ⇒ *Workshop Manual '242519 Removing and installing air filter housing - T9I, TB5'*
- 3 Check crankcase sensor ⇒ *Checking crankcase sensor (shown on cylinder bank 2)-1-* on cylinder bank 1 and cylinder bank 2.



Checking crankcase sensor (shown on cylinder bank 2)

Assessment		Action
(✓)	Crankcase sensor ⇒ <i>Checking crankcase sensor (shown on cylinder bank 2)-1-</i> on cylinder bank 1 and/or cylinder bank 2 is correctly engaged under both locking lugs ⇒ <i>Checking crankcase sensor (shown on cylinder bank 2)-2-</i> .	- End of action - Continue with Step 5 ⇒ . [Scope 1]
(✗)	Crankcase sensor ⇒ <i>Checking crankcase sensor (shown on cylinder bank 2)-1-</i> on cylinder bank 1 and/or cylinder bank 2 is not engaged correctly under locking lugs ⇒ <i>Checking crankcase sensor (shown on cylinder bank 2)-2-</i> .	Rework crankcase sensor ⇒ <i>Checking crankcase sensor (shown on cylinder bank 2)-1-</i> of the corresponding cylinder bank. Continue with Step 4 ⇒ . [Scope 2]

- 4 Rework crankcase sensor ⇒ *Reworking crankcase sensor (shown on cylinder bank 2) -1-*.
 - 4.1 Lock crankcase sensor ⇒ *Reworking crankcase sensor (shown on cylinder bank 2) -1- in ⇒ Reworking crankcase sensor (shown on cylinder bank 2) -Arrow direction- under the corresponding locking lug ⇒ Reworking crankcase sensor (shown on cylinder bank 2) -2-*.
 - 4.2 Visually check whether the crankcase sensor is clipped ⇒ *Reworking crankcase sensor (shown on cylinder bank 2) -1- correctly under both locking lugs ⇒ Reworking crankcase sensor (shown on cylinder bank 2) -2-*.
- 5 Install air cleaner housing. ⇒ *Workshop Manual '242519 Removing and installing air filter housing - T9, TB5'*
- 6 Enter the campaign in the Warranty and Maintenance logbook.

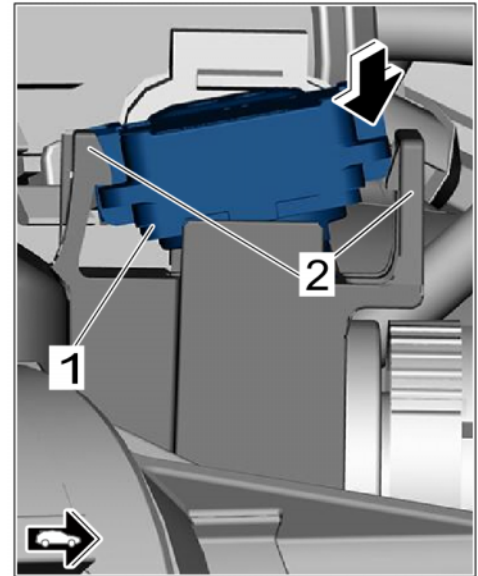


Reworking crankcase sensor (shown on cylinder bank 2)

Replacing crankcase sensor and oil separator

Work Procedure: 1 Remove oil separator from the corresponding cylinder bank. ⇒ *Workshop Manual '105519 Removing and installing oil separator - TB5'*

- 2 Lock the **new** crankcase sensor ⇒ -1- in ⇒ -**Arrow direction**- locking lugs on ⇒ -2- the **new** oil separator.
- 3 Install **new** oil separator of the corresponding cylinder bank. ⇒ *Workshop Manual '105519 Removing and installing oil separator - TB5'*
- 4 Read out and delete all control unit fault memories.
 - 4.1 Press •F7" in the control unit selection screen ('Overview' menu) to call up the Additional menu.
 - 4.2 Select the function "Read all fault memories and erase if required" and press •F12" ('Next') to confirm.
- 5 Enter the campaign in the Warranty and Maintenance logbook.



Engaging crankcase sensor

Warranty processing



Information

The specified labor times were determined specifically for carrying out this campaign and include all necessary preliminary and subsequent rework. The labor times may differ from the Labor times published in the Labor Operation List in PCSS.

Scope 1: Checking crankcase sensor

Labor time:

Checking crankcase sensor

Labor time: **38 TU**

Includes: Removing and installing air cleaner housing

⇒ **Damage number WPR8 066 000 1**

Scope 2: Checking and reworking crankcase sensor

Labor time:

Checking and reworking crankcase sensor

Labor time: **61 TU**

Includes: Checking fault memory

Removing and installing air cleaner housing

⇒ **Damage number WPR8 066 000 1**

Scope 3: **Replacing crankcase sensor and oil separator on one side**

Labor time:		
Replacing crankcase sensor and oil separator on one side		Labor time: 80 TU
Includes:	Removing and installing air cleaner housing Removing and installing air cleaner cartridge Removing and installing engine cover	
Required parts:		
Part No.	Designation – Location	Quantity
PAB906052	Sensor – Oil separator	1 / 2 piece(s)
PAB103464A	Oil separator – Cylinder bank 1	1 piece
or		
PAB103495D	Oil separator – Cylinder bank 2	1 piece
⇒ Damage number WPR8 066 000 2		

Scope 4: **Replacing crankcase sensor and oil separator on both sides**

Labor time:		
Replacing crankcase sensor and oil separator on both sides		Labor time: 103 TU
Includes:	Removing and installing air cleaner housing Removing and installing air cleaner cartridge Removing and installing engine cover	
Required parts:		
Part No.	Designation – Location	Quantity
PAB906052	Sensor	2 pieces
PAB103464A	Oil separator – Cylinder bank 1	1 piece
PAB103495D	Oil separator – Cylinder bank 2	1 piece
⇒ Damage number WPR8 066 000 2		

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