

WLB7 - Replacing Oxygen Sensors Downstream of Catalytic Converter (Workshop Campaign)

Vehicle type: **Panamera 4S (971)**
Panamera 4S Executive (971)
Panamera 4S Sport Turismo (971)

Model Year: **As of 2017 up to 2018**

Country/market:

- USA (C02)
- Canada (C36)
- Puerto Rico (C02)

Equipment: 2.9-liter V6 biturbo engine

Subject: **Oxygen sensors downstream of catalytic converter**

Information: **Oxygen sensors downstream of catalytic converter with a silicone protective tube are installed on the connecting line on the affected vehicles. Gas coming from this protective tube can contaminate the measuring electrode on the reference air side of the respective oxygen sensor over the service life of the vehicles.**

As a result, it is no longer possible to correctly measure the oxygen content in the ambient air and consequently, in the exhaust gas and the Check Engine light will be activated.

Remedial Action: Replace oxygen sensors downstream of catalytic converter with oxygen sensors with an acrylic protective tube.

Affected Vehicles: Only vehicles assigned to the campaign (see also PCSS Vehicle Information). There are 9,936 vehicles affected by this campaign in North America.

Parts required

Part Info:	Part No.	Designation - Use	Qty.
	00004330437	⇒ Oxygen sensor - downstream of catalytic converter	2 ea.

Required tools

Tools:

- **3337 - Ring wrench set for oxygen sensor**

- Torque wrench, 2–10 Nm (1.5–7.5 ftlb.), e.g. **Torque wrench, 2-10 Nm (1.5-7.5 ftlb.) — locally available**
- Torque wrench, 20–100 Nm (15–74 ftlb.), e.g. **Torque wrench, 20-100 Nm (15-74 ftlb.) — locally available**
- Torque angle torque wrench, 4–400 Nm (3–296 ftlb.), e.g. **Digital torque wrench, 20-400 Nm (15-296 ftlb.) — locally available**

Replacing oxygen sensors downstream of catalytic converter

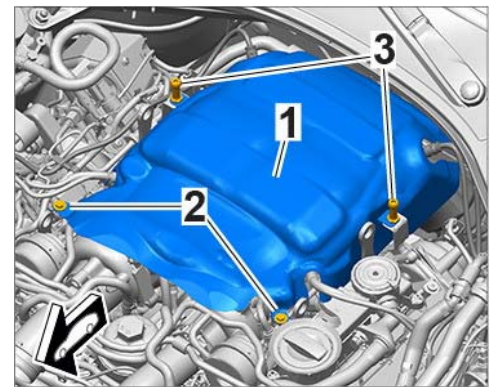
- Work Procedure: 1 Remove strut (dome strut) ⇒ *Workshop Manual '408619 Removing and installing strut (dome strut)'*.
- 2 Remove engine cover (design cover) ⇒ *Workshop Manual '108319 Removing and installing engine cover (design cover) (V6 Turbo)'*.

CAUTION

Hot components

- Risk of burns
- ⇒ Let hot components cool down.
- ⇒ Wear personal protective gear.

- 3 Remove heat shield ⇒ *Removing heat shield for turbocharger -1-* for turbocharger.
- 3.1 Loosen and unscrew fastening screws ⇒ *Removing heat shield for turbocharger -2-* for the heat shield.
- 3.2 Loosen and unscrew rear fastening pins for the engine cover (ball pins) ⇒ *Removing heat shield for turbocharger -3-*.
- 3.3 Guide out and remove heat shield ⇒ *Removing heat shield for turbocharger -1-*.



Removing heat shield for turbocharger

CAUTION

Risk of damage to sensor if handled incorrectly!

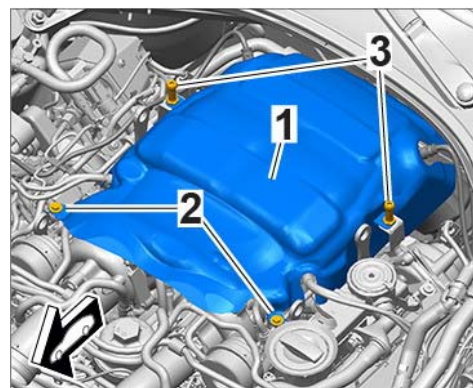
- ⇒ Do not remove the plastic cap on the thread until just prior to installing the sensor. The grease used on the thread must never get into the connector.
- ⇒ Protect sensors – before and after installing – against mechanical shocks.
- ⇒ Sensors that were dropped on the floor must not be used owing to the risk of a broken ceramic insulator.

- ⇒ The cables must not be twisted or kinked when the sensors are screwed in. Avoid pulling on the cable and connector.
- ⇒ Cleanliness in the housing of the plug connections is of utmost importance for the oxygen sensor to function properly. Particles of dirt can impair the function of the sensor. The connector must therefore be protected against any and all types of soiling.
- ⇒ Sensors with a soiled or damaged connector must no longer be used.
- ⇒ Protect the cables and connectors when carrying or moving the exhaust system with the sensors already installed.
- ⇒ High-pressure cleaning equipment must not be used in the area of the sensors and plug connections.
- ⇒ Contact and corrosion agents, e.g. Stabilant, must not be applied to the plug contacts of the oxygen sensors.

- 4 Remove oxygen sensor downstream of catalytic converter for **cylinder bank 1 and cylinder bank 2** and install a new oxygen sensor ⇒ *Workshop Manual '247319 Removing and installing oxygen sensor downstream of catalytic converter (V6 biturbo)'*.

Part No.	Designation	Qty.
00004330437	Oxygen sensor	2 ea.

- 5 Install heat shield ⇒ *Installing heat shield for turbocharger -1-* for turbocharger.
 - 5.1 Guide in and position heat shield ⇒ *Installing heat shield for turbocharger -1-*.
 - 5.2 Screw in and tighten fastening screws ⇒ *Installing heat shield for turbocharger -2-* for the heat shield.
Tightening torque 9 Nm (6.5 ftlb.)
 - 5.3 Screw in and tighten rear fastening pins for engine cover (ball pins) ⇒ *Installing heat shield for turbocharger -3-*.
Tightening torque 4.8 Nm (3.4 ftlb.)



Installing heat shield for turbocharger

- 6 Install engine cover (design cover) ⇒ *Workshop Manual '108319 Removing and installing engine cover (design cover) (V6 Turbo)'*.
- 7 Install strut (dome strut) ⇒ *Workshop Manual '408619 Removing and installing strut (dome strut)'*.
- 8 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 the PCSS.

Scope 1:

Replacing oxygen sensors downstream of catalytic converter

- Vehicles with **2.9-liter V6 biturbo engine** without hybrid drive

Working time:

Replacing oxygen sensors downstream of catalytic converter

Labor time: **87 TU**

Includes:

Removing and installing strut (dome strut)

Removing and installing engine cover (design cover)

Removing and installing heat shield for turbocharger

Parts required:

00004330437

Oxygen sensor

2 ea.

⇒ **Damage Code WLB7 66 000 2**

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