

Technical Information

Service

96/23 ENU 2473

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Message "Engine Control Fault" in the Instrument Cluster/ Fault Memory Entries to the Oxygen Sensor Downstream of the Catalytic Converter (96/23)

Revision: This bulletin replaces bulletin Group 2 96/23, dated August 7, 2023.

Model Year: As of 2017 up to 2023

Vehicle Type: Panamera (971) / Panamera Executive (971) / Panamera 4 (971) / Panamera 4 Executive

(971) / Panamera 4 Sport Turismo (971) / Panamera 4S (971) / Panamera 4S Executive (971)

/ Panamera 4S Sport Turismo (971)

Equipment: 2.9-liter twin-turbo V6 engine

Concerns: Oxygen sensors downstream of catalytic converter

Cause: The message 'Engine control fault' is displayed in the instrument cluster and the following entries are stored in the fault memory of the DME control unit:

- P227000 Oxygen sensor downstream of catalytic converter, bank 1 signal too lean
- P227200 Oxygen sensor downstream of catalytic converter, bank 2 signal too lean
- P209600 Oxygen sensor correction downstream of catalytic converter, bank 1 above lean control limit
- P209800 Lambda correction behind catalytic converter, bank 2 above lean control limit

At high ambient temperatures around the oxygen sensors downstream of the catalytic converter, the measuring electrodes may become contaminated over the service life of the vehicle which can lead to a functional impairment of the oxygen sensors and thus to the described fault pattern.

Action:

If there is a customer complaint on vehicles that were manufactured before the deployment date listed below, replace the oxygen sensors on the catalytic converter and the turbocharger shield.

Date of Introduction:

Standard use modified turbocharger shield from January 9, 2023.

Required parts

| Part No. | Designation - Location | Number |
|-------------|---|----------|
| 00004330437 | ⇒ Oxygen sensor– downstream of catalytic converter | 2 pieces |

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| PAE119607 | ⇒ Heat shield– Turbocharger | 1 piece |
|------------|--|----------|
| WHT008539 | ⇒ Hexagon-head bolt with inner multiple-tooth head (Duo) M10 x 80– Dome strut to body | 2 pieces |
| PAF912696 | ⇒ M10 hexagon nut– Dome strut to body | 2 pieces |
| N 10664503 | ⇒ Hexagon-head bolt, M8 x 45 – Side strut to body | 2 pieces |

Required tools

Tools:

- 3337 Ring wrench set for oxygen sensor
- Torque wrench, 2 10 Nm (1.5 7.5 ftlb.), e.g. **V.A.G 1783 torque wrench, 2 10 Nm** (1.5 7.5 ftlb.)
- Torque wrench, 20–100 Nm (15–74 ftlb.), e.g. VAS 5820 Torque wrench, 20-100 Nm (15-74 ftlb.)
- Torque-torque -wrench, 20-400 Nm (15-296 ftlb.), e.g. VAS 6942 Digital torque-torque -wrench, 20-400 Nm (15-296 ftlb.)
- 9866 Support
- 9866/2 Support
- 9900 PIWIS Tester 4
- Battery charger with a current rating of at least 90 A, VAS 5908 battery charger 90 A

Replacing oxygen sensors downstream of catalytic converter and turbocharger shield

Work Procedure:



Information

New oxygen sensors are pre-greased.

- Replace oxygen sensors downstream of catalytic converter and, if necessary, turbocharger shield.
 ⇒ Workshop Manual '247319 Removing and installing oxygen sensor downstream of catalytic converter (V6 biturbo)'
- 2 Read out all fault memories using the PIWIS tester, process and delete existing faults if necessary.

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Labor position and PCSS encryption

Labor position:

| APOS | Labor operation | I No. |
|----------|--|-------|
| 24735041 | Rework oxygen sensor downstream of catalytic converter | |

PCSS encryption:

| Location (FES5) | 24730 | Oxygen sensor downstream of catalytic converter |
|-------------------|-------|---|
| Damage type (SA4) | 1611 | does not function |

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