

Complaint - Engine Knock During Acceleration: Checking engine for carbon deposits (17/18)

Model Line: **Cayenne (92A)**
Panamera (970/971)
Macan

Model Year: **As of 2010**

Subject: **Intake valves and intake ports**

Information: **Carboned-up valves in the engine can be reworked and cleaned using cleaning equipment.**

If there is a **complaint about knocking combustion**, e.g. during acceleration at high load, **the condition of the intake valves and ports must be checked before doing any other work.**

If the **check shows** that the **intake valves and intake ports have carbon deposits** and are dirty, they must be cleaned using the **VAS 294 011 - cleaning unit.**

There should be no need to replace the components.

Date of Introduction: The **VAS 294 011 - cleaning unit** can be ordered immediately for dealers.

Remedial Action: The **VAS 294 011 - cleaning unit** is used for cleaning carboned-up intake valves and intake ports. Compressed air is used to spray a special granulate mixture into the intake port, where it loosens and removes carbon build-up.

The dirty granulate is extracted during spraying using an industrial vacuum cleaner.

Instructions for use can be found in the operating instructions of the cleaning unit:

- **Access the intake valves and ports via the intake-air distributor.**
- **When working on the intake valves and ports using the cleaning unit, make sure that the intake valves into the respective combustion chamber are closed ⇒ ignition TDC.**

Tools: **VAS 294 011 - Cleaning unit** (This is a recommended tool for dealerships to purchase, but can also be rented.)

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

| | | |
|--------------------------|-------|--------|
| Location (FES5) | 10010 | Engine |
| Damage type (SA4) | 3015 | dirty |

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