

**Warning Message "Engine Control System Fault" in Conjunction with Fault Memory Entries in the PDK Control Unit (190/21)**

Model Line: **Macan (95B)**

Model Year: **As of 2014**

Concerns: **Porsche Doppelkupplungsgetriebe PDK (M-no. G1D)**

Information: Customers complain about warning message "Engine control fault – visit workshop – Driving permitted" in the instrument cluster.

The following entries for the Porsche Doppelkupplungsgetriebe (PDK) are stored in the fault memory:

- P17D400 - Clutch valve in gear train half 1, Mechanical fault (0022FB)
- P17D400 - Clutch valve in gear train half 1, Mechanical fault (0022FC)
- P17D400 - Clutch valve in gear train half 1, Mechanical fault (00494D)
- P17D400 - Clutch valve in gear train half 1, Mechanical fault (00494F)
- P17D500 - Clutch valve in gear train half 2, Mechanical fault (002300)
- P17D500 - Clutch valve in gear train half 2, Mechanical fault (002301)
- P17D500 - Clutch valve in gear train half 2, Mechanical fault (00494E)
- P17D500 - Clutch valve in gear train half 2, Mechanical fault (004950)



**Information**

Due to the assembly process, particulates can stick to components in rare cases during production of the double clutch transmission (PDK). As a result, there is a possibility that some control valves in the PDK control unit can become jammed or malfunctions can occur.

Action required: In the event of a customer complaint, first clean the ATF lines and ATF cooler of the Porsche Doppelkupplungsgetriebes (PDK).  
If the error message still exists, the PDK control unit must be replaced.

**Required tools, parts and materials**

- Tool:
- **T10384 - T10384 - Ratchet wrench, a/f 13**
  - **VAS 6563 - Manual metering pumps, Porsche set or equivalent**
  - **VAS 6928 - Socket set, 39-piece**

| Parts Info: | Part No.  | Designation<br>– Location  | Number |
|-------------|-----------|--|--------|
|             | 0B5321473 | ⇒ Oil pipe<br>– Double clutch transmission<br>oil-filter housing | 2 ea.  |

|                       |   |            |
|-----------------------|---|------------|
| WHT005499A            | ⇒ O-ring, 40 x 2.5<br>– Double clutch transmission<br>oil-filter housing    | 1 ea.      |
| N 0138275             | ⇒ Sealing ring<br>– Drain plug  | 1 ea.      |
| WHT004647             | ⇒ O-ring, 10.8 x 1.78<br>– Double clutch transmission<br>oil-filter housing | 4 ea.      |
| N 90666001            | ⇒ O-ring, 11.5 x 3<br>Disconnect oil line at the oil-filter<br>housing.     | 4 ea.      |
| OB5325571             | ⇒ Sleeve including seals<br>– Double clutch transmission                    | 1 ea.      |
| OB5315105TA           | ⇒ Oil pipe including O-ring<br>– Double clutch transmission                 | 1 ea.      |
| WHT003379             | ⇒ O-ring, 10 x 2.0<br>- Oil strainer  | 1 ea.      |
| 9A732137100           | ⇒ Seal<br>- Oil pan   | 1 ea.      |
| Materials: G 052529A2 | ⇒ Double clutch transmission<br>oil (CASTROL BOT 233 Q)                     | 8.5 litres |

### Clean ATF cooler and lines and replace PDK control unit if necessary

- Work Procedure: 1 Clean the ATF cooler and ATF lines on the Porsche Doppelkupplungsgetriebe (PDK).  
For instructions, see:  
⇒ *Workshop Manual '370229 Cleaning ATF (line and radiator)'*
- 2 Then perform a test drive. If the fault persists, the PDK control unit must be replaced.  
For instructions, see:  
⇒ *Workshop Manual '387755 Replacing control mechanism for transmission'*

**Invoicing**

Invoicing: For documentation and invoicing in the event of a guarantee, state the work items required depending on the scope of work required and the specified PCSS encryption in the Warranty Claim:

| APOS     | Labor operation          | I No. |
|----------|--------------------------|-------|
| 38775500 | Replace PDK control unit |       |
| 38772900 | Clean PDK control unit   |       |

PCSS encryption:

|                   |       |                  |
|-------------------|-------|------------------|
| Location (FES5)   | 38770 | PDK control unit |
| Damage type (SA4) | 1059  | Residue          |

- References:   ⇒ *Workshop Manual '370229 Cleaning ATF (line and radiator)'*  
                   ⇒ *Workshop Manual '387755 Replacing control mechanism for transmission'*

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