

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

Revision: This bulletin replaces bulletin Group 3 190/21, dated January 7, 2022.

Model Year: **As of 2014**

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

Concerns: **Porsche Doppelkupplung (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 Doppelkupplung (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 Doppelkupplung (PDK).

If the error message still exists, the PDK control unit must be replaced.

Required tools, parts and materials



Information

The specified tools, parts and materials are required for cleaning the ATF cooler and lines.

If the control unit for the transmission must be replaced following cleaning, the parts required for this must be searched for independently.

- Tools:
- **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 – Location	Number
	OB5321473	⇒ Oil pipe – Transmission to oil-filter housing	2 pieces
	PAF005499	⇒ O-ring, 40 x 2.5 – Oil filter housing	1 piece
	PAF013827	⇒ Sealing ring – Drain plug	1 piece
	N 90666001	⇒ O-ring, 11.5 x 3 – Oil lines at the oil-filter housing	2 pieces
	PAC325330	⇒ Oil filter	1 piece
	WHT005379	⇒ O-ring, 36 x 2.5 – Transmission to oil-filter housing	1 piece
	PAF003487	⇒ Screw plug – ATF inspection plug	1 piece
	PAF005372	⇒ Cheese head bolt with multiple-tooth head, M12 x 1.5 x 51 – Cross-strut	2 pieces
	PAF911511	⇒ Hexagon-head bolt, M12 x 1.5 x 42 – Cross-strut	4 pieces
Materials:	G 052529A2	⇒ Double clutch transmission oil (CASTROL BOT 342 A)	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 Doppelkupplung (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 '387719 Removing and installing control mechanism for transmission'*

Invoicing

Invoicing: For documentation and invoicing in the event of a warranty, 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	Replacing control mechanism for transmission	
38772900	Cleaning transmission control mechanism	

PCSS encryption:

Location (FES5)	38770	Transmission control mechanism
Damage type (SA4)	1059	dirty

References: ⇒ *Workshop Manual '370229 Cleaning ATF (line and radiator)'*
 ⇒ *Workshop Manual '387719 Removing and installing control mechanism for transmission'*

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