

Technical Information

55/20 ENU 2470

Service

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Symptom - Engine - Vibrations in the Engine: Resetting Adaptation Values for Camshaft Control, Changing Engine Oil and Oil Filter (SY 55/20)

Vehicle type:	Macan (95B)	
Model Year:	As of 2019 up to 2020	
Equipment:	2.0-liter 4-cylinder petrol engine (engine type: EA888)	
Subject:	Camshaft control	
Symptom:	There are vibrations in the engine after starting the vehicle. The following entries are stored in the fault memory of the DME control unit: P001100 Intake camshaft adjustment, bank 1 – setpoint position not reached (003A16) P001400 Exhaust camshaft adjustment, bank 1 – setpoint position not reached (003A15)	
Cause:	The adaptation values for camshaft control are out of tolerance. This fault may be caused by dirt on the adjusting units.	
Remedial Action:	 Reset adaptation values using PIWIS Tester software version 39.300.010 (or higher). Changing engine oil and oil filter. 	



Only use the engine oils approved and recommended by Porsche for this engine.

Required spare parts and materials

Parts Info:	Part No.	Designation - Location	Qty.
	95810380100	\Rightarrow Cap with sealing ring	1 ea.
	95811556201	\Rightarrow Oil filter with seal - Oil filter housing	1 ea.

Materials: **Required materials** (usually already available at the Porsche dealership):

Part No.	Designation - Location	Qty.
00004321046	\Rightarrow ExxonMobil 1 ESP x2 0W-20 engine oil	200-liter container ¹⁾
00004320593	\Rightarrow Lubricant - Oil filter housing seal	100 g tube ²⁾

¹⁾ approx. 5 liter required per vehicle.

²⁾ approx. 5 grams required per vehicle.

Resetting adaptation values for camshaft control

Work Procedure: 1 Connect the **PIWIS Tester** to the vehicle and switch on the **PIWIS Tester**.

- 2 Switch on the ignition.
- 3 Start diagnostics.
- 4 Create initial VAL.
- 5 Reset adaptation values.
 - 5.1 Select "Engine electronics (DME)" control unit.
 - 5.2 Select the "Maintenance/repairs" tab.
 - 5.3 Select the "Reset adaptation values" sub-procedure and press F12[#] to continue.
 - 5.4 Follow the instructions on the Tester.
- 6 Check adaptation values.
 - 6.1 Select "Engine electronics (DME)" control unit.
 - 6.2 Select the "Actual values" tab.
 - 6.3 Select "Camshaft" in the menu and press F12[#] to continue.
 - 6.4 Select the "Camshaft phase angle adaptation values" sub-procedure and press F12" to continue.

The following adaptation values must be reset to 0.000 degrees:

Camshaft phase angle adaptation value 1

Camshaft phase angle adaptation value 2

Camshaft phase angle adaptation value, exhaust 1

Camshaft phase angle adaptation value, exhaust 2

Camshaft phase angle adaptation value, intake 1

Camshaft phase angle adaptation value, intake 2

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- 7 Delete fault memory entries.
 - 7.1 Select all control units (Ctrl+A).
 - 7.2 Select the **"Fault memory"** tab.
 - 7.3 Check the fault memory for relevant entries and correct them.
 - 7.4 Select all fault memory entries (CTRL+A).
 - 7.5 Press F8" to delete fault memory entries.
- 8 Create final VAL.
- 9 Switch off the ignition.
- 10 Disconnect the PIWIS Tester from the vehicle.

Changing engine oil and oil filter

Work Procedure: 1 Change engine oil, see \Rightarrow Workshop Manual '170117 Draining and filling engine oil (R4)'.

- 2 Change oil filter, see \Rightarrow Workshop Manual '173055 Changing oil filter (R4)'.
- 3 Check engine-oil level, see \Rightarrow Workshop Manual '170101 Checking engine-oil level (R4)'.
- 4 Reset service interval for the oil change service, see ⇒ Workshop Manual '033500 Fault memory for on-board diagnosis'.

Invoicing

Invoicing: For documentation and warranty invoicing, enter the labor operations, PQIS coding and part numbers specified below in the warranty claim:

APOS	Labour operation	I No.
24704900	Reworking DME control units	

PQIS coding:

Location (FES5)	1584	Camshaft actuator
Damage type (SA4)	9735	Repair in accordance with PAG instructions

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Parts Info:	Part No.	Designation - Location	Qty.
	95810380100	⇒ Cap with sealing ring - Oil pan	1 ea.

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	95811556201	\Rightarrow Oil filter with seal - Oil filter housing	1 ea.
	00004321046	\Rightarrow ExxonMobil 1 ESP x2 0W-20 engine oil	approx. 5 liter
	00004320593	\Rightarrow Lubricant - Oil filter housing seal	approx. 5 grams
References:	\Rightarrow Workshop Manua	l '170117 Draining and filling engine oil (R4)'	
	\Rightarrow Workshop Manua	l '173055 Changing oil filter (R4)'	
	\Rightarrow Workshop Manua	l '170101 Check engine-oil level (R4)'	
	⇒ Workshop Manua	l '033500 Fault memory for on-board diagnos	is'

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