

Technical Information

Service

222/20 ENU 2190

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Complaint - Check Engine Error Message in Conjunction with Loss of Power or a Mooing Noise after Switching off the Engine (222/20)

Model Line: Cayman (982)/Cayman S (982)/Cayman GTS (982)/Cayman T (982)

Model Year: As of 2017 up to 2021

Equipment: 4-cylinder engines

Concerns: **Pressure converter for turbocharger**

Information: Customers complain about:

- The Check Engine warning light coming on in conjunction with loss of power
- A mooing noise after switching off the engine and when driving at low revs

One or more of the following fault memory entries are also stored in the engine electronics (DME) control unit:

- P0234 Boost pressure control limit exceeded
- P0299 Boost pressure control deviation
- P2262 Boost pressure too low for tank ventilation

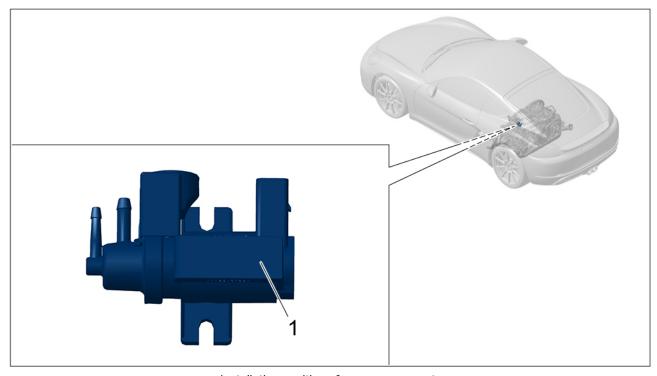
Date of

A pressure converter with an external air cleaner has been installed during production since

Introduction: December 10, 2020.

Action required: Remove old pressure converter and install new pressure converter with external air cleaner.

Installation Position:



Installation position of pressure converter

Pressure converter (old)

Required tools

Tools: V.A.G 1331A - Torque wrench, 6-50 Nm/4.5-37 ftlb.

Parts required

Part Nos.:	Part No.	Designation	Qty.
		- Location	
	9A790662700	⇒ Pressure converter	1 ea.
		– Turbocharger	
	9A211008420	⇒ Air cleaner (complete)	1 ea.
		Includes:	
		- Hose	
		 Combination holder 	

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Preparatory work

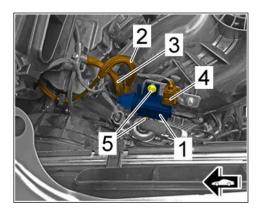
Work Procedure: 1 Remove engine compartment lid, see *⇒ Workshop Manual '557819 Removing and installing engine compartment lid'*.

2 To remove air filter housing, see ⇒ Workshop Manual '242519 Removing and installing air filter housing'.

Replacing pressure converter

Work Procedure: 1 Remove old pressure converter.

- 1.1 Disconnect vacuum hoses ⇒ Pressure converter for turbocharger -2- and ⇒ Pressure converter for turbocharger -3- from the pressure converter ⇒ Pressure converter for turbocharger -1- one after the other.
- 1.2 Release and disconnect electric plug connection \Rightarrow *Pressure converter for turbocharger* **-4**-on the pressure converter \Rightarrow *Pressure converter for turbocharger* **-1**-.
- 1.3 Unscrew fastening screws ⇒ Pressure converter for turbocharger -5- on the pressure converter ⇒ Pressure converter for turbocharger -1- and remove pressure converter.



Pressure converter for turbocharger

2 Prepare new pressure converter for installing.

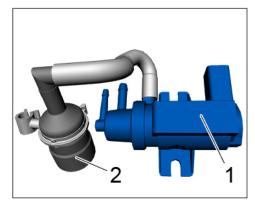
To do this, install air cleaner \Rightarrow *Pressure converter (new)* -2- as shown \Rightarrow *Pressure converter (new)* on the pressure converter \Rightarrow *Pressure converter (new)* -1-.

Item	Part No.	Designation
1	9A790662700	Pressure converter
2	9A211008420	Air cleaner (complete)
		Includes:
		– Hose
		Combination holder



Information

Use water as a lubricant to make installing easier if necessary.



Pressure converter (new)

- 3 Install new pressure converter with external air cleaner.
 - 3.1 Position new pressure converter \Rightarrow Pressure converter for turbocharger (new) -1- and install and tighten fastening screws \Rightarrow Pressure converter for turbocharger (new) -5-.

Tightening torque 13 Nm (9.5 ftlb.)

3.2 Position and connect vacuum hoses ⇒ *Pressure converter for turbocharger (new)* -2- and ⇒ *Pressure converter for turbocharger (new)* -3- on the pressure converter ⇒ *Pressure converter for turbocharger (new)* -1- one after the other.



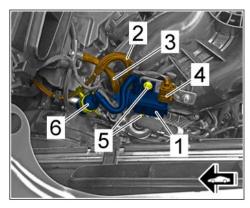
Information

Use water as a lubricant to make installing easier if necessary.

- 3.3 Connect and lock electric plug connection \Rightarrow Pressure converter for turbocharger (new) -4-.
- 3.4 Clip in combination holder \Rightarrow *Pressure converter for turbocharger (new)* -6- on the vacuum hose \Rightarrow *Pressure converter for turbocharger (new)* -2- underneath the anti-chafing tape.

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Pressure converter for turbocharger (new)



Information

Once installed, check the routing and position of the vacuum hoses with regard to the following points and re-position them if necessary.

- Sufficient distance from heat shields/fan housing/electric plug connection for high-pressure pump
- Vacuum hoses are not strained

Concluding work

Work Procedure: 1 To install air filter housing, see *⇒ Workshop Manual '242519 Removing and installing air filter housing'*.

2 Install engine compartment lid, see ⇒ Workshop Manual '557819 Removing and installing engine compartment lid'.

Invoicing

Invoicing:

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

APOS	Labor operation	I No.
21934900	Reworking boost pressure control cycle valve	

PQIS coding:

Location (FES5)	21930	Cycle valve
Damage type (SA4)	2022	whining, whistling

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Technical Information

Parts Info: Part No. Designation Qty.

 9A790662700
 Pressure converter
 1 ea.

 9A211008420
 Air cleaner (complete)
 1 ea.

References: ⇒ Workshop Manual '242519 Removing and installing air cleaner housing'

⇒ Workshop Manual '557819 Removing and installing engine compartment lid'

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