

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

Model Line: **Boxster (982)/Boxster S (982)/Boxster GTS (982)/Boxster T (982)**

Model Year: **As of 2017 up to 2021**

Equipment: 4-cylinder petrol 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:

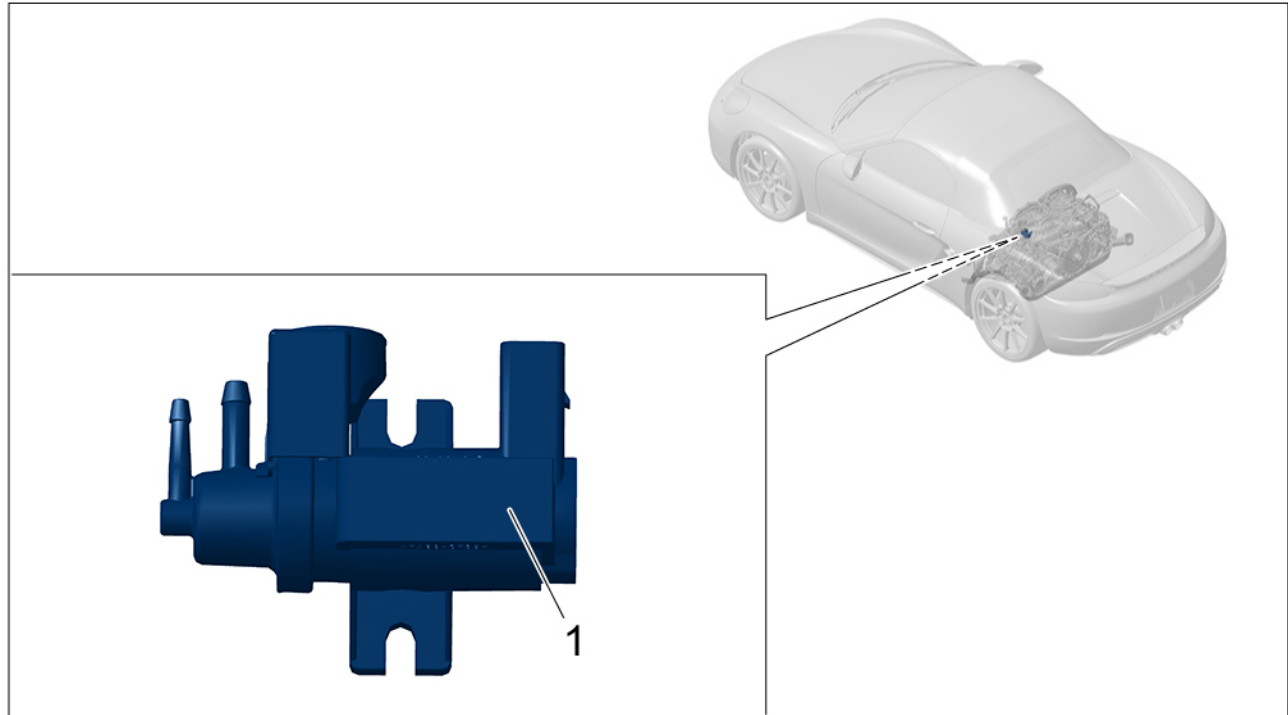
- P0234 - Boost pressure control limit exceeded
- P0299 - Boost pressure control deviation
- P2262 - Boost pressure too low for tank ventilation

Date of Introduction: A pressure converter with an external air cleaner has been installed during production since 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*

1 – Pressure converter (old)

Required tools

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

Parts required

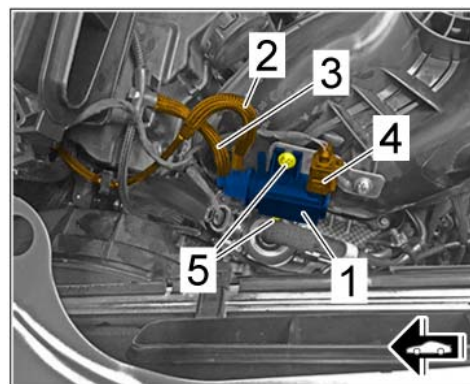
Part Nos.:	Part No.	Designation – Location	Qty.
	9A790662700	⇒ Pressure converter – Turbocharger	1 ea.
	9A211008420	⇒ Air cleaner (complete) Includes: – Hose – Combination holder	1 ea.

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 ⇒ *Pressure converter for turbocharger -4-* on the pressure converter ⇒ *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.



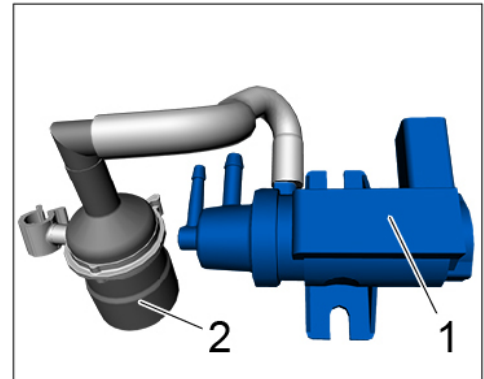
Pressure converter for turbocharger

- 2 Prepare new pressure converter for installing.
- To do this, install air cleaner ⇒ *Pressure converter (new) -2-* as shown ⇒ *Pressure converter (new)* on the pressure converter ⇒ *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.



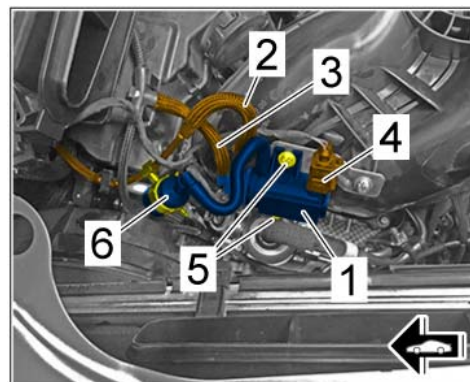
Pressure converter (new)

- 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 \Rightarrow *Pressure converter for turbocharger (new)-2-* and \Rightarrow *Pressure converter for turbocharger (new)-3-* on the pressure converter \Rightarrow *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.



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.
21934915	Reworking boost pressure control cycle valve	

PQIS coding:

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

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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