

Technical Information

179/20 ENU 20²

Service

2017 2

Complaint - Check Engine Warning Light Comes On, Fault Memory Entry for Tank Ventilation/Tank Ventilation System: Observe Specified Procedure (179/20)

- Vehicle Type: 911 Carrera (991)/911 Carrera S (991)/911 Carrera GTS (991)/911 Carrera T (991)/911 Carrera Cabriolet (991)/911 Carrera S Cabriolet (991)/911 Carrera GTS Cabriolet (991)/911 Carrera 4 (991)/911 Carrera 4S (991)/911 Carrera 4 GTS (991)/911 Targa 4 (991)/911 Targa 4S (991)/911 Targa 4 GTS (991)/911 Carrera 4 Cabriolet (991)/911 Carrera 4S Cabriolet (991)/911 Carrera 4 GTS Cabriolet (991)
- Model Year: As of 2017 up to 2018
- Concerns: Tank vent valve

Information: The Check Engine warning light comes on in the instrument cluster. One of the following entries is stored in the fault memory of the DME control unit:

- P24D6 Tank ventilation pressure sensor sensor fault
- PO4FO Tank ventilation system upper partial load range

This is caused by a stuck diaphragm in the check valve for the vacuum line.

Action required: Replace tank vent valve, see \Rightarrow *Workshop Manual '202319 Removing and installing tank vent valve'* and then re-program the DME control unit.

1 Information

The total time required for control unit programming is **approx. 10 minutes**.

Required tools and parts

Tool:

• 9900 - PIWIS Tester 3 with PIWIS Tester software version 34.700.030 (or higher) installed

• Battery charger with a current rating of at least 40 A, e.g. VAS 5908 Battery charger 90A.

Parts Info:	Part No.	Designation – Use	Qty.
	9A211009503	\Rightarrow Vent line with tank vent valve	1 ea.
		Additional parts required	
	9A700875500	\Rightarrow O-ring – Venturi nozzle for tank ventilation	2 ea.
	99970769240	\Rightarrow O-ring – Oil supply line for turbocharger	1 ea.
	9P1129260A	\Rightarrow Clamp – Intake pipe on turbocharger	1 ea.



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000	22244201		0
999	07344301	\Rightarrow Combination screw – diagonal brace	2 ea.
WHT	008676	\Rightarrow Hexagon-head bolt – Diagonal brace	2 ea.
PAFC	008735	\Rightarrow Hexagon-head bolt – Rear-axle cross member	2 ea.
999	07293101	\Rightarrow Hexagon-head bolt – Rear-axle cross member	2 ea.

Preparatory work

NOTICE

Fault entry in the fault memory and control unit programming aborted due to low voltage.

- Increased current draw during diagnosis or control unit programming can cause a drop in voltage, which can result in one or more fault entries and the abortion of the diagnostic process.
- ⇒ Before starting control unit programming, connect a suitable battery charger with a current rating of at least 40 A to the vehicle.

NOTICE

Control unit programming will be aborted if the WiFi connection is unstable.

- An unstable WiFi connection can interrupt communication between the PIWIS Tester and the vehicle communication module (VCI). As a result, control unit programming may be aborted.
- ⇒ During control unit programming, always connect the PIWIS Tester to the vehicle communication module (VCI) via the USB cable.

NOTICE

Control unit programming will be aborted if the driver's key is not recognized

- If the driver's key is not recognized in vehicles with Porsche Entry & Drive, programming cannot be started or will be interrupted.
- ⇒ Switch on the ignition using the original driver's key. To do this, replace the control unit in the ignition lock with the original driver's key if necessary.

Work Procedure: 1Carry out general preliminary work for control unit programming as described in \Rightarrow Workshop
Manual '9X00IN Basic instructions and procedure for control unit programming using the PIWIS
Tester - section on "Preliminary work".

AfterSales

Re-programming DME control unit



Use of a PIWIS Tester software version that is older than the prescribed version

The programming sequence takes (approx.):

- Measure is ineffective
- ⇒ Always use the prescribed version or a higher version of the PIWIS Tester software for control unit programming and coding.
- Work Procedure: 1 The basic procedure for programming a control unit is described in the Workshop Manual \Rightarrow Workshop Manual '9X00IN Basic instructions and procedure for control unit programming using the PIWIS Tester - section on "Programming"'.

mation:		
Required PIWIS Tester software version:	34.700.030 (or higher)	
Type of control unit programming:	Control unit programming using the 'Automatic programming' function of the DME control unit:	
	'Engine electronics (DME)' control unit – 'Coding/programming' menu – 'Automatic programming' function.	
Programming sequence:	Read and follow the information and instructions on the PIWIS Tester during the guided programming sequence. During the programming sequence, the DME control unit is re-programmed and then re-codedautomat- ically .	
	Do not interrupt programming and coding.	
	Once the control units have been programmed and coded, you will be prompted to switch the ignition off and then back on again after a certain waiting time.	
	Backup documentation of the new software versions is then performed	

10 minutes

Specific information on control unit programming in the context of this Technical Infor-

Procedure in the event of abnormal termi- nation of control unit programming:	 Switch ignition off and then on again. Read out and erase fault memories ⇒ Workshop Manual '9XOOIN Basic instructions and procedure for control unit programming using the PIWIS Tester- section on "Subsequent work". Repeat control unit programming by restarting programming.
Procedure in the event of other error messages appearing during the programming sequence:	⇒ Workshop Manual '9X00IN Basic instructions and procedure for control unit programming using the PIWIS Tester - section on "Fault finding"'.

Concluding work

Work Procedure: 1Carry out general subsequent work for control unit programming as described in \Rightarrow Workshop
Manual '9X00IN Basic instructions and procedure for control unit programming using the PIWIS
Tester - section on "Subsequent work".

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.
20235500	Replacing tank vent valve	

PQIS coding:

Location (FES5)	20170	Purge-air line
Damage type (SA4)	1616	Reacts too slowly

Parts Info:	Part No.	Designation – Use	Qty.
	9A211009503	Vent line with tank vent valve	1 ea.
		Additional parts required	
	9A700875500	O-ring – Venturi nozzle for tank ventilation	2 ea.
	99970769240	O-ring – Oil supply line for turbocharger	1 ea.
	9P1129260A	Clamp – Intake pipe on turbocharger	1 ea.
	99907344301	Combination screw – diagonal brace	2 ea.

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WHT008676	Hexagon-head bolt – Diagonal brace	2 ea.	
PAF008735	Hexagon-head bolt – Rear-axle cross member	2 ea.	
99907293101	Hexagon-head bolt – Rear-axle cross member	2 ea.	

References: ⇒ Workshop Manual '202319 Removing and installing tank vent valve'

 \Rightarrow Workshop Manual '9X00IN Basic instructions and procedure for control unit programming using the PIWIS Tester'

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AfterSales