

Warning Message “Engine Control System Malfunction” in Conjunction With Error Memory Entry “P04F000” in the DME Control Unit: Checking Venturi Nozzle in Turbocharger Housing (02/23)

Vehicle Type: **911 (992)**

Model Year: **As of 2019**

- Country / Market:
- USA (C02)
 - Canada (C36)

Concerns: **Venturi nozzle in turbocharger housing**

Information: Customers complaint of a yellow warning message **“Engine control fault”** in the instrument cluster. The following fault memory entry is stored in the fault memory of the DME control unit:

- P04F000 – Tank vent via turbocharger, inadequate flow (00480A)

Cause: The Venturi nozzle for full-load vent in the vent bore in the turbocharger housing may have slipped and/or become dirty.

Action: In the event of a customer complaint, check the condition of the Venturi nozzle in the turbocharger housing and either:

- Correct installation position of Venturi nozzle

or

- Clean Venturi nozzle and insert correctly

Required parts

Parts Info:	Part No.	Designation – Point of use	Quantity
	PAF009329	⇒ O-ring – Tank vent line for turbocharger	1 piece
	PAF009329A	⇒ O-ring – Tank vent line for turbocharger	1 piece

Additional parts required as needed:

Part No.	Designation - Point of use	Quantity
WHT011297	⇒ Screw plug with sealing ring - Turbocharger	1 piece
9A713355400	⇒ Venturi nozzle - Turbocharger	1 piece

Checking condition of Venturi nozzle in turbocharger housing

Work Procedure: 1 Remove rear left wheel.
For instructions, see:
⇒ *Workshop Manual '440519 Removing and installing wheel'*
or
⇒ *Workshop Manual '440519 Removing and installing wheel with central bolt'*

2 Access the Venturi nozzle in the turbocharger housing.

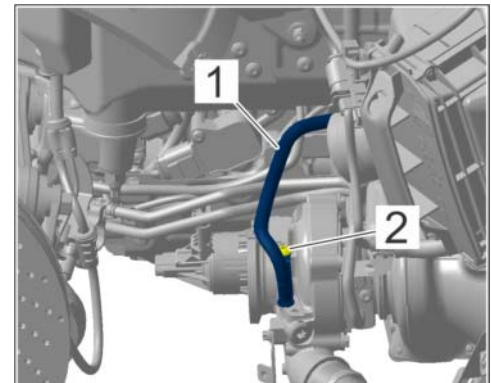
2.1 Disconnect tank vent line ⇒ *Turbocharger tank vent line -1-* from the turbocharger housing.

2.1.1 Unscrew screw ⇒ *Turbocharger tank vent line -2-*.

**Information**

The O-rings must be replaced after the tank vent line is disconnected from the turbocharger housing.

2.1.2 Remove tank vent line ⇒
Turbocharger tank vent line -1- by moving it upwards.

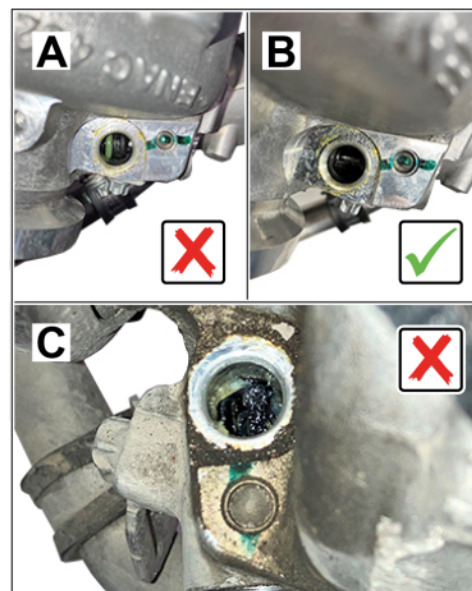


Turbocharger tank vent line

- 3 Check installation position of the Venturi nozzle in the turbocharger via the opening for the tank vent line.

If the Venturi nozzle is NOT installed correctly (as witnessed by the green seal being visible, -A-) and/or there is debris (-C-), please correct the installation and/or clean, respectively. Otherwise (-B-), please proceed to Step 4.

- 4 Unscrew screw plug ⇒ *Plug -3-*.



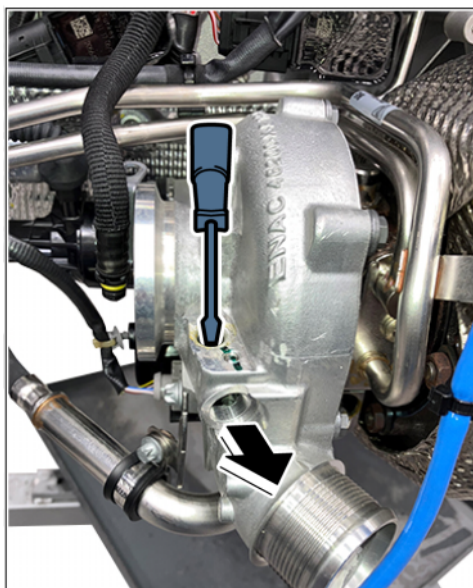
Venturi nozzle in turbocharger



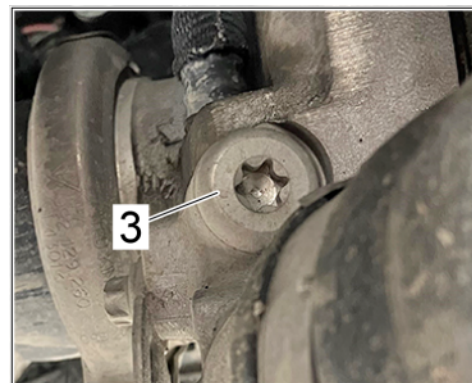
Information

The screw plug with sealing ring must be replaced after every removal.

- 5 Carefully press Venturi nozzle forward ⇒ *Removing Venturi nozzle* -Arrow- out of the



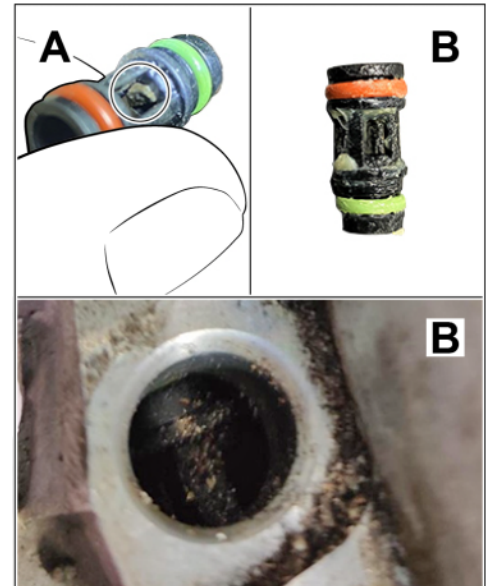
Removing Venturi nozzle



Plug

turbocharger using a suitable screwdriver without sharp edges. Do not damage the sealing face of the tank vent line connection or the Venturi nozzle.

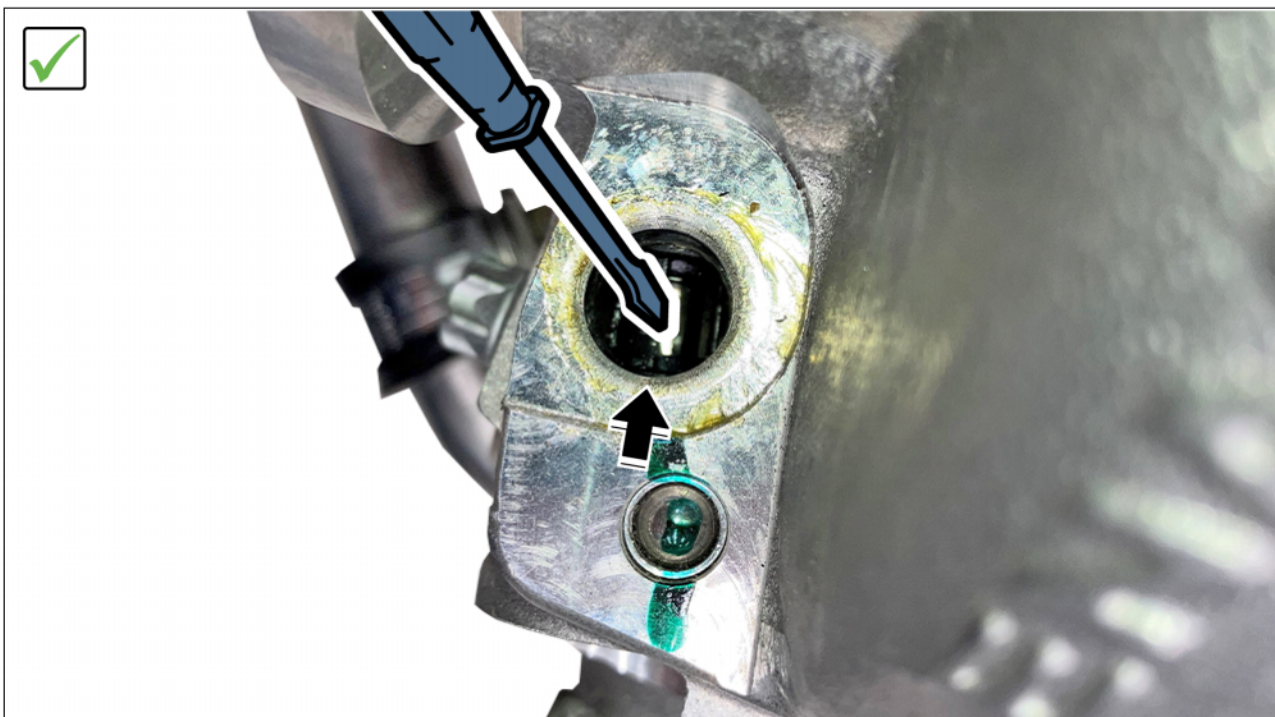
- 6 Check Venturi nozzle for foreign objects ⇒ *Venturi nozzle dirty -A-* or dirt ⇒ *Venturi nozzle dirty -B-*. Remove any foreign objects. Then continue with: ⇒ *Technical Information 'Cleaning and installing Venturi nozzle correctly'*



Venturi nozzle dirty

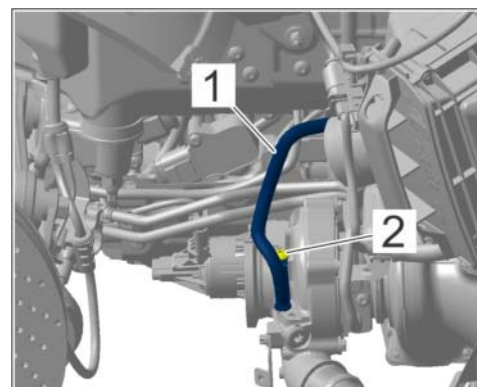
Correct installation position of Venturi nozzle

- Work Procedure: 1 Using a suitable screwdriver without sharp edges, carefully press Venturi nozzle ⇒ *Installing Venturi nozzle -4-* through the opening on the tank vent line ⇒ *Installing Venturi nozzle -Arrow-* into the bore in the turbocharger housing to the stop.
Then check the installation position of the Venturi nozzle ⇒ *Installing Venturi nozzle -4-* via the opening on the tank vent line. The green O-ring must not be visible.



Installing Venturi nozzle

- 2 Fasten tank vent line ⇒ *Turbocharger tank vent line -1-* on the turbocharger housing.
 - 2.1 Push tank vent line ⇒ *Turbocharger tank vent line -1-* with **new** O-rings into the turbocharger housing.
 - 2.2 Screw in and tighten screw ⇒ *Turbocharger tank vent line -2-*.
Tightening torque 10 Nm



Turbocharger tank vent line

- 3 Install rear left wheel.
For instructions, see:
⇒ *Workshop Manual '440519 Removing and installing wheel'*
or
⇒ *Workshop Manual '440519 Removing and installing wheel with central bolt'*
- 4 Delete error memory entry in the DME control unit.
End of remedial action.

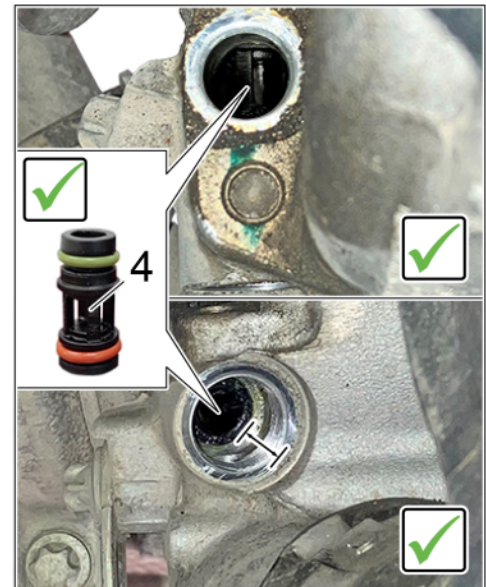
Cleaning and installing Venturi nozzle correctly

- Work Procedure:
- 1 Clean the Venturi nozzle and vent bore in the turbocharger housing with suitable agent.
 - 2 Check both O-rings on the Venturi nozzle for damage. If damaged, the Venturi nozzle including O-rings must be replaced.
Part No.: **9A713355400**
 - 3 Coat the O-rings of the Venturi nozzle ⇒ *Venturi nozzle -4-* with commercially available engine oil for easier installation.



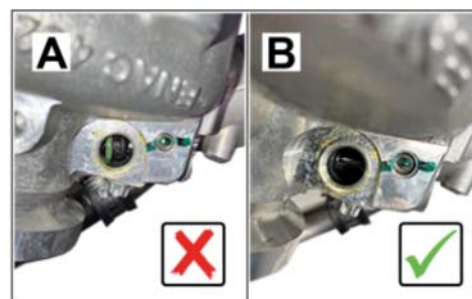
Venturi nozzle

- 4 Carefully push Venturi nozzle ⇒ *Venturi nozzle installed correctly -4-* by hand into the opening bore in the turbocharger housing to the stop.



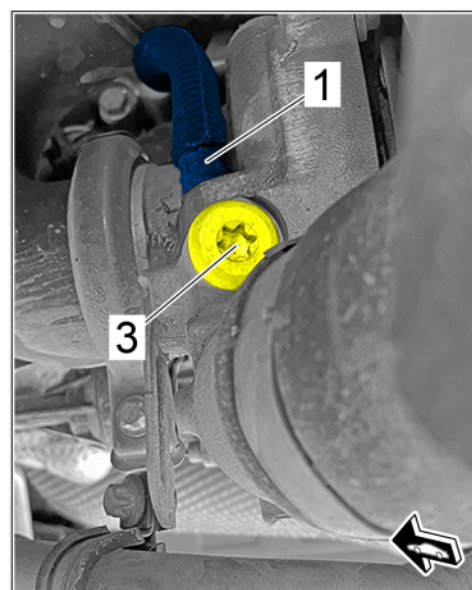
Venturi nozzle installed correctly

- 5 Check installation position of the Venturi nozzle via the opening on the tank vent line. The green O-ring must not be visible. ⇒ *Installation position of Venturi nozzle*



Installation position of Venturi nozzle

- 6 Install and tighten **new** screw plug with sealing ring ⇒ *Left turbocharger housing -3-*.
Tightening torque 8 Nm +/-1 Nm

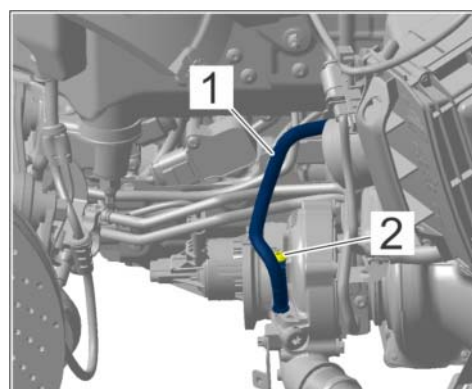


Left turbocharger housing

- 7 Fasten tank vent line ⇒ *Turbocharger tank vent line -1-* on the turbocharger housing.

- 7.1 Push tank vent line ⇒ *Turbocharger tank vent line -1-* with **new** O-rings into the turbocharger housing.

- 7.2 Screw in and tighten screw ⇒ *Turbocharger tank vent line -2-*.
Tightening torque 10 Nm



Turbocharger tank vent line

- 8 Install rear left wheel.
For instructions, see:
⇒ *Workshop Manual '440519 Removing and installing wheel'*
or
⇒ *Workshop Manual '440519 Removing and installing wheel with central bolt'*

9 Delete error memory entry in the DME control unit.

End of remedial action.

Invoicing

For documentation and warranty invoicing, enter the working position and PCSS encryption specified below in the warranty claim:

APOS	Labor operation	I No.
44051903	Removing and installing wheel (5-hole rim)	
44051913	Removing and installing wheel (with central lock)	
20170550	Checking and adjusting purge air line	
20172950	Cleaning purge air line	

PCSS encryption:

Location (FES5)	20170	Turbocharger Venturi nozzle
Damage type (SA4)	1631	blocked

References: ⇒ *Workshop Manual '440519 Removing and installing wheel'*
 ⇒ *Workshop Manual '440519 Removing and installing wheel with central bolt'*

Important Notice: Technical Bulletins issued by Porsche Cars North America, Inc. are intended only for use by professional automotive technicians who have attended Porsche service training courses. They are written to inform those technicians of conditions that may occur on some Porsche vehicles, or to provide information that could assist in the proper servicing of a vehicle. Porsche special tools may be necessary in order to perform certain operations identified in these bulletins. Use of tools and procedures other than those Porsche recommends in these bulletins may be detrimental to the safe operation of your vehicle, and may endanger the people working on it. Properly trained Porsche technicians have the equipment, tools, safety instructions, and know-how to do the job properly and safely. Part numbers listed in these bulletins are for reference only. The work procedures updated electronically in the Porsche PIWIS diagnostic and testing device take precedence and, in the event of a discrepancy, the work procedures in the PIWIS Tester are the ones that must be followed.

© 2023 Porsche Cars North America, Inc.