

WE12 - Replacing Vacuum Line For Exhaust Flaps (Workshop Campaign)

Revision: **March 11, 2015**

This revision amends WE12 as follows:

1. Under Parts Info "Information" note added and a new part number for Vacuum line.
2. Under Affected Vehicles — The North American affected vehicle total was changed from 7,146 to 1,470.
3. Under Attachment "A" — Work Procedure Step 7 is new information.
4. Under Attachment "A" — Work Procedure Step 8 (previous Step 7) has been revised and includes the new vacuum line part number 000.043.209.86.
5. Under Attachment "B" — Claim Submission the "Parts required" has been changed to new vacuum line part number 000.043.209.86.

Model Year: **As of 2012 up to 2014**

Vehicle Type: **911 Carrera S (991)/911 Carrera 4S (991)**

Concerns: **Vacuum line for exhaust flaps**

Information: This is to inform you of a voluntary Workshop Campaign on the above-mentioned vehicles. **The vacuum line for the exhaust flaps can shorten because of the heat from the engine and become detached from the vacuum units for the exhaust flaps over the service life of the vehicle.**

As a result, there is no guarantee that the exhaust flaps and other vacuum-controlled actuators on the engine will function correctly. This causes the warning message "Fault cooling system" to be displayed in the instrument cluster.

Action Required: Replace vacuum line for exhaust flaps.

Affected Vehicles: The VIN(s) can be checked by using PIWIS Vehicle Information link to verify if the campaign affects the vehicle. This campaign is scope specific to the VIN! Failure to verify in PIWIS may result in an improper repair. This campaign affects 7,146 vehicles in North America.

Parts Info:

**Information**

A modified vacuum line for exhaust flaps is available with immediate effect.

This modified vacuum line further improves the routing of the line to prevent it from slipping off the exhaust flaps.

Only the new vacuum line specified below must therefore be used from now on for carrying out this campaign.

This measure does not have to be carried out again on vehicles on which the vacuum line has already been replaced as part of this campaign.

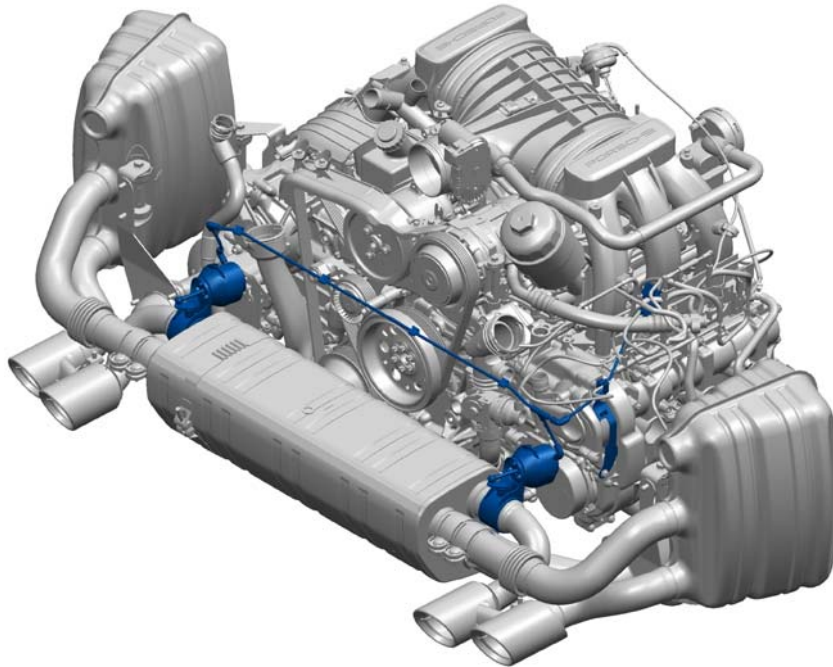
NOTE: DO NOT ORDER PARTS. THEY WILL BE AUTOMATICALLY ALLOCATED FOR UP TO 50% OF THE VEHICLES THAT ARE SERVICED AT YOUR DEALERSHIP. ONCE YOUR DEALERSHIP IS OUT OF STOCK AND REQUIRES ADDITIONAL PARTS, YOU SHOULD SUBMIT A PTEC/PAV.

Part No.	Designation	Qty.
000.043.209.86	⇒ Vacuum line, complete	1 ea.

Tools:

- Torque wrench, 2 - 10 Nm (1.5 - 7.5 ftlb.), e.g. **Nr.90 Pos.1 - Torque wrench**
- Torque wrench 10 – 60 Nm (7.5 – 44 ftlb.), e.g. **Nr.90 Pos.3 - Torque wrench**
- Change-over ratchet, 1/4"
- Change-over ratchet, 3/8"
- Extension, 1/4" (short)
- Extension, 1/4" (long)
- Torx socket-wrench insert, 1/4", T25
- Torx socket-wrench insert, 1/4", T30
- Torx socket-wrench insert, 3/8", T45
- Hexagon socket-wrench insert, 1/4", a/f 7
- Hexagon socket-wrench insert, 1/4", a/f 10
- Hexagon socket-wrench insert, 1/4", a/f 14
- Slotted screwdriver (medium)
- Plastic wedge
- Steel rule (30 cm long) or measuring tape

Installation
Position:



Installation position of vacuum line for exhaust flaps

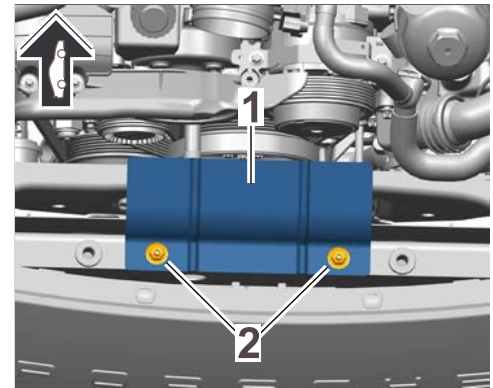
Work Procedure: See Attachment "A".

Claim Submission: See Attachment "B".

Attachment "A": **Work Procedure**

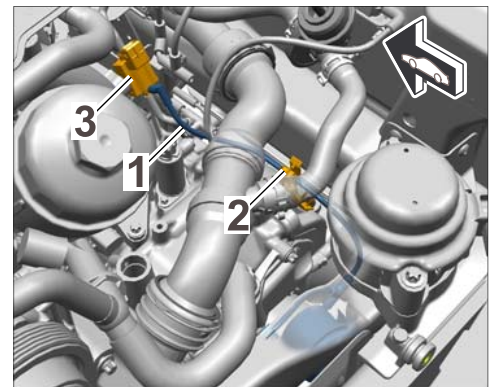
- 1 Remove engine-compartment blower ⇒ *Workshop Manual '198119 Removing and installing engine-compartment blower'*.
- 2 Remove tail lights ⇒ *Workshop Manual '943119 Removing and installing tail lights'*.
- 3 Remove rear spoiler ⇒ *Workshop Manual '665819 Removing and installing rear spoiler'*.
- 4 Remove air cleaner housing ⇒ *Workshop Manual '242519 Removing and installing air cleaner housing'*.

- 5 Loosen and unscrew speed nuts \Rightarrow *Removing heat shield -2-* on the heat shield \Rightarrow *Removing heat shield -1-*. Remove heat shield.
- 6 Remove vacuum line for exhaust flaps.



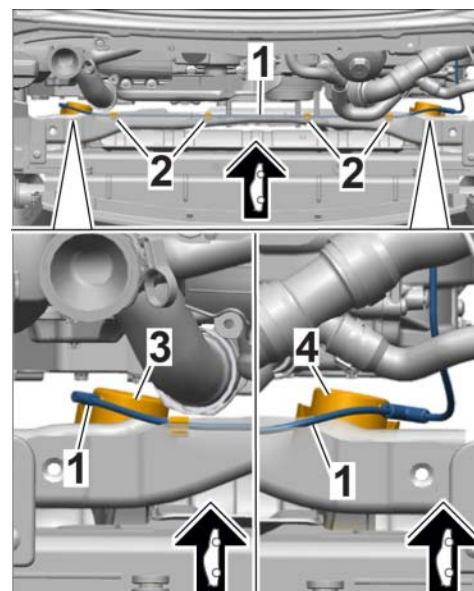
Removing heat shield

- 6.1 Pull vacuum line \Rightarrow *Disconnecting vacuum line at the change-over valve -1-* off the change-over valve for exhaust flaps \Rightarrow *Disconnecting vacuum line at the change-over valve -3-*.
- 6.2 Unclip vacuum line \Rightarrow *Disconnecting vacuum line at the change-over valve -1-* from the line bracket \Rightarrow *Disconnecting vacuum line at the change-over valve -2-* and guide it out.



Disconnecting vacuum line at the change-over valve

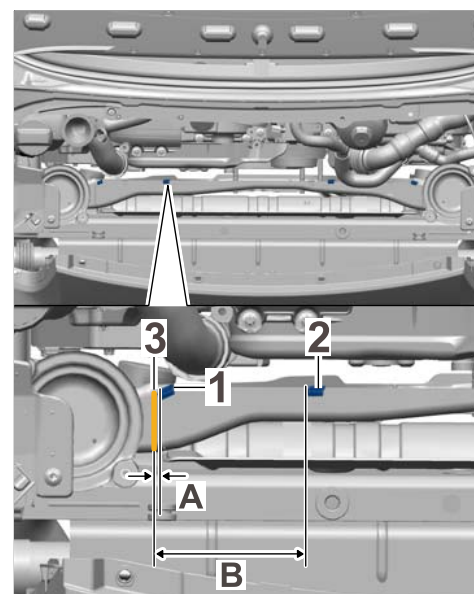
- 6.3 Carefully pry off vacuum line ⇒ *Disconnecting vacuum line at the exhaust flaps -1-* at the **right** vacuum unit for exhaust flaps ⇒ *Disconnecting vacuum line at the exhaust flaps -4-* using a slotted screwdriver and disconnect the line from the vacuum unit.
- 6.4 Unclip vacuum line ⇒ *Disconnecting vacuum line at the exhaust flaps -1-* from the line brackets ⇒ *Disconnecting vacuum line at the exhaust flaps -2-* on the engine carrier.
- 6.5 Carefully pry off vacuum line ⇒ *Disconnecting vacuum line at the exhaust flaps -1-* at the **left** vacuum unit for exhaust flaps ⇒ *Disconnecting vacuum line at the exhaust flaps -3-* using a slotted screwdriver and disconnect the line from the vacuum unit.
- 6.6 Guide vacuum line ⇒ *Disconnecting vacuum line at the exhaust flaps -1-* out of the engine compartment and remove it.



Disconnecting vacuum line at the exhaust flaps

- 7 Check position of line brackets for the vacuum line.
 - 7.1 Measure the position of the line brackets ⇒ *Installation position of line brackets at the left -1, 2-* at the **left side** of the engine carrier. To do this, use a steel rule or measuring tape to measure the distance ⇒ *Installation position of line brackets at the left -A, B-* between the bead ⇒ *Installation position of line brackets at the left -3-* on the left engine carrier and the corresponding line bracket.

Installation positions of line brackets for vacuum line on the left engine carrier:



Installation position of line brackets at the left

Line bracket ⇒ <i>Installation position of line brackets at the left -1-</i>	Distance to bead on left engine carrier ⇒ <i>Installation position of line brackets at the left -dimension A-</i> : The installation position is at the left bend (angled edge) of the engine carrier.	12 mm (+/- 1 mm)
Line bracket ⇒ <i>Installation position of line brackets at the left -2-</i>	Distance to bead on left engine carrier ⇒ <i>Installation position of line brackets at the left -dimension B-</i> :	200 mm (+/- 1 mm)

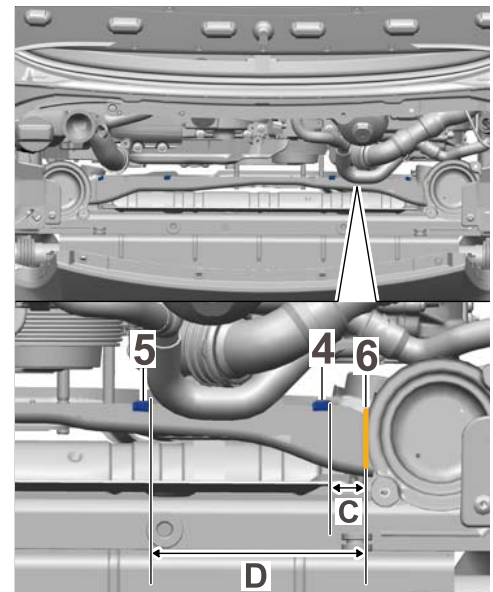
If the line brackets are not fitted at the correct distance from the bead, carefully prise the line brackets off the engine carrier and fit them at the specified distance on the engine carrier. Then check that the line brackets are fitted securely.

If the line brackets can be pulled off the engine carrier by hand using only a small amount of force, they must be removed and new line brackets (Part No. 999.651.401.01) must be fitted at the relevant position.

- 7.2 Measure the position of the line brackets ⇒ *Installation position of line brackets at the right -4, 5-* at the **right side** of the engine carrier.

To do this, use a steel rule or measuring tape to measure the distance ⇒ *Installation position of line brackets at the right -C, D-* between the bead ⇒ *Installation position of line brackets at the right -6-* on the right engine carrier and the corresponding line bracket.

Installation positions of line brackets for vacuum line on the right engine carrier:



Installation position of line brackets at the right

Line bracket ⇒ <i>Installation position of line brackets at the right -4-</i>	Distance to bead on right engine carrier ⇒ <i>Installation position of line brackets at the right -Dimension C-</i> :	60 mm (+/- 1 mm)
Line bracket ⇒ <i>Installation position of line brackets at the right -5-</i>	Distance to bead on right engine carrier ⇒ <i>Installation position of line brackets at the right -dimension D-</i> :	257 mm (+/- 1 mm)

If the line brackets are not fitted at the correct distance from the bead, carefully prise the line brackets off the engine carrier and fit them at the specified distance on the engine carrier. Then check that the line brackets are fitted securely.
 If the line brackets can be pulled off the engine carrier by hand using only a small amount of force, they must be removed and new line brackets (Part No. 999.651.401.01) must be fitted at the relevant position.

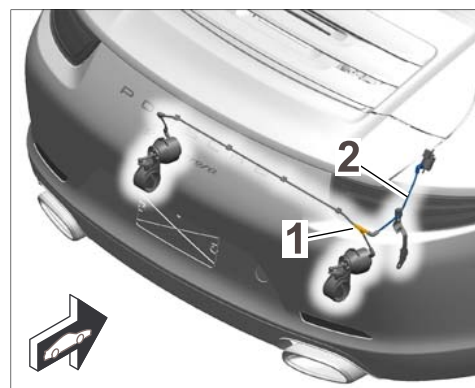


Information

A modified vacuum line for exhaust flaps is available with immediate effect. This modified vacuum line further improves the routing of the line to prevent it from slipping off the exhaust flaps. Only the new vacuum line specified below must therefore be used from now on for carrying out this campaign.
 This measure does not have to be carried out again on vehicles on which the vacuum line has already been replaced as part of this campaign.

8 Install new vacuum line, Part No. 000.043.209.86.

8.1 Position vacuum line in the engine compartment in such a way that the T-shaped connection piece ⇒ *Positioning vacuum line -1-* is close to the **right** exhaust flap and the short section ⇒ *Positioning vacuum line -2-* is routed forward on the **right** side of the vehicle.



Positioning vacuum line

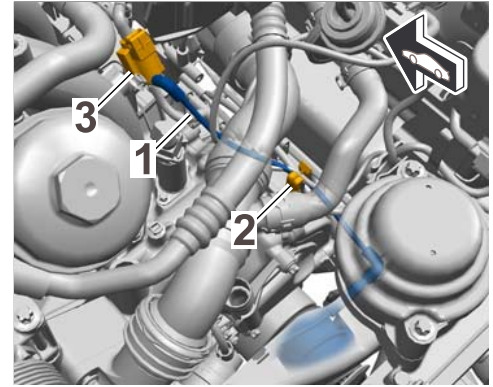


Information

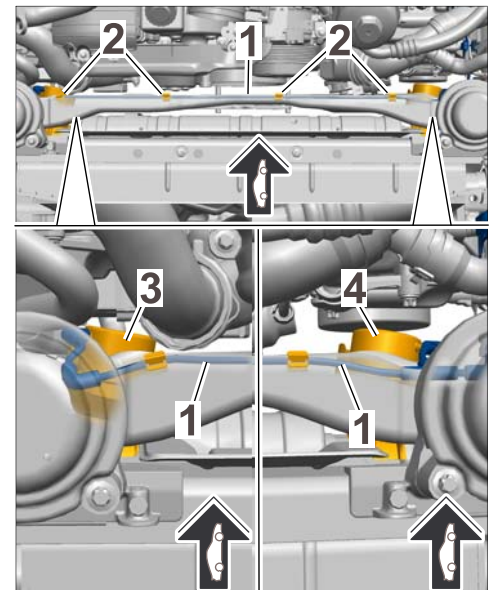
To avoid malfunctions as a result of vacuum lines slipping off, the following points must be observed when fitting vacuum lines:

- Route vacuum lines without tension
- Only use water – if required – as a sliding compound when fitting vacuum lines

- Vacuum lines must be pushed into the connection pieces as far as the marking (approx. 10 mm)
- 8.2 Route vacuum line ⇒ *Securing vacuum line on change-over valve -1-* for the change-over valve ⇒ *Securing vacuum line on change-over valve -3-* and clip it into the bracket ⇒ *Securing vacuum line on change-over valve -2-*.
Make sure that the **vacuum line** and the **wiring harness for the oxygen sensor do not cross** to prevent any pulling force due to the relative movements of the engine.
- 8.3 Push vacuum line ⇒ *Securing vacuum line on change-over valve -1-* as far as it will go onto the change-over valve for exhaust flaps ⇒ *Securing vacuum line on change-over valve -3-*.
- 8.4 Push vacuum line ⇒ *Securing vacuum line to exhaust flaps -1-* at the **right** vacuum unit for exhaust flaps ⇒ *Securing vacuum line to exhaust flaps -4-* on as far as it will go. Make sure that the vacuum line is routed without tension in the engine compartment.
- 8.5 Push vacuum line ⇒ *Securing vacuum line to exhaust flaps -1-* at the **left** vacuum unit for exhaust flaps ⇒ *Securing vacuum line to exhaust flaps -3-* on as far as it will go.
- 8.6 Position vacuum line ⇒ *Securing vacuum line to exhaust flaps -1-* without tension close to the engine carrier and clip it into the line brackets ⇒ *Securing vacuum line to exhaust flaps -2-*.
- 8.7 Check that the vacuum line ⇒ *Securing vacuum line to exhaust flaps -1-* is fitted correctly in the connection pieces and adjust it if necessary.

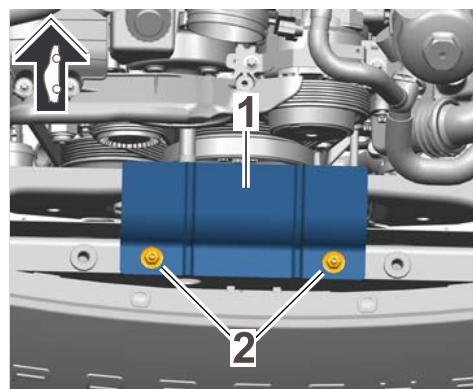


Securing vacuum line on change-over valve



Securing vacuum line to exhaust flaps

- 9 Position heat shield ⇒ *Installing heat shield -1-* in the engine compartment and screw on and tighten speed nuts ⇒ *Installing heat shield -2-*. **Tightening torque 2.5 Nm (2 ftlb.)**
- 10 Install air cleaner housing ⇒ *Workshop Manual '242519 Removing and installing air cleaner housing'*.
- 11 Install rear spoiler ⇒ *Workshop Manual '665819 Removing and installing rear spoiler'*.
- 12 Install tail lights ⇒ *Workshop Manual '943119 Removing and installing tail lights'*.
- 13 Install engine-compartment blower ⇒ *Workshop Manual '198119 Removing and installing engine-compartment blower'*.
- 14 Enter the workshop campaign in the Warranty and Maintenance booklet.



Installing heat shield

Attachment "B": **Claim Submission** - Workshop Campaign WE12
 Warranty claims should be submitted via WWS/PQIS.
 Open campaigns may be checked by using either the PIWIS Vehicle Information system or through PQIS Job Creation.
 Labor, parts, and sublet will be automatically inserted when Technician is selected in WWS/PQIS. If necessary, the required part numbers will need to be manually entered into warranty system by the dealer administrator.

Working time:		Labor time: 97 TU
Replacing vacuum line for exhaust flaps		
Includes: Removing and installing engine-compartment blower		
Removing and installing tail lights		
Removing and installing rear spoiler		
Removing and installing air cleaner housing		
Parts required:		
000.043.209.86	Vacuum line, complete	1 ea.
⇒ Damage code WE12 066 000 2		

- References: ⇒ *Workshop Manual '198119 Removing and installing engine-compartment blower'*
 ⇒ *Workshop Manual '943119 Removing and installing tail lights'*
 ⇒ *Workshop Manual '665819 Removing and installing rear spoiler'*

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

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