

WLH9 - Replacing Filter Element for Tank Leakage Diagnosis Module (Workshop Campaign)

Vehicle Type: **Macan S (95B)**
Macan Turbo (95B)

Model Year: **As of 2015 up to 2016**

Country/market:

- USA (C02)
- Canada (C36)

Equipment: Tank leakage diagnosis (**I-no. 2G4**)

Subject: **Filter element for tank leakage diagnosis module**

Information: **There is a possibility that particles of dirt can get into the tank leakage diagnosis module and be deposited on the diaphragm seal under certain environmental conditions.**

This can result in incorrect tank leakage diagnosis in some cases. The Check Engine light will be activated.

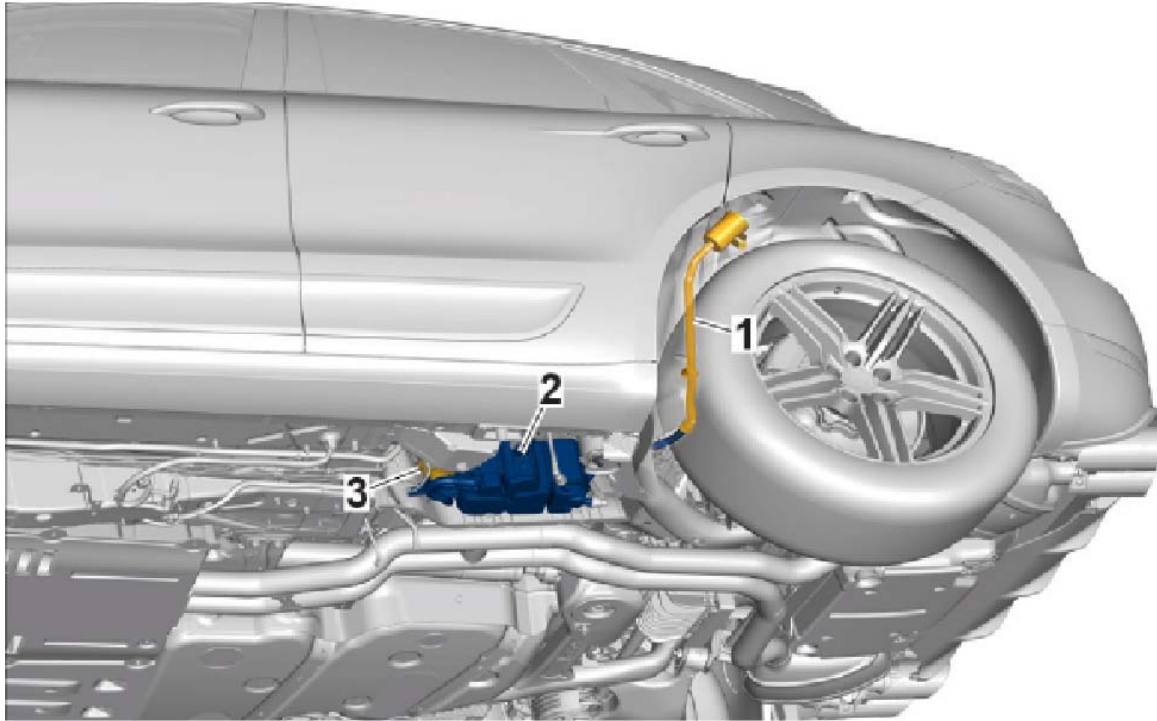
Remedial Action:

- Replace ventilation line with filter element for tank leakage diagnosis module.
- Also replace tank leakage diagnosis module.

Affected Vehicles: Only the vehicles assigned to the campaign (see also PIWIS Vehicle information).

Installation

Position:



Installation position of filter element and tank leakage diagnosis module

- 1 – Ventilation line with filter element (**replace**)
- 2 – Carbon canister
- 3 – Tank leakage diagnosis module (**replace**)

Parts required

Parts Info:	Part No.	Designation	Qty.
	V04015002	⇒ Ventilation line with filter element	1 ea.
	V04015003A	⇒ Pressure switch for tank leakage diagnosis module	1 ea.
	V04015003B	⇒ Sleeve for tank leakage diagnosis module	1 ea.
	N 10647801	⇒ Tie-wrap	1 ea.

Required tools

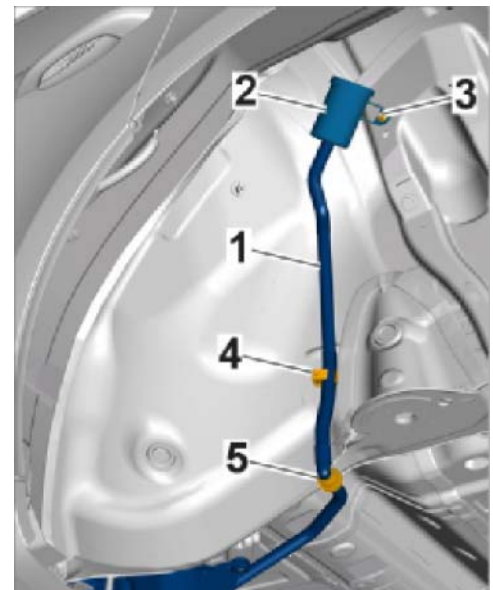
- Tools:
- Torque screwdriver, 1.5 - 3 Nm (1 - 2 ftlb.), e.g. **VAS 6494 Torque screwdriver, 1.5-3.0 Nm (1-2 ftlb.)**
 - Torque wrench, 2 - 10 Nm (1.5 - 7.5 ftlb.), e.g. **VAG 1783 Torque wrench, 2-10 Nm (1.5-7.5 ftlb.)** or equivalent

Preparatory work

- Work Procedure: 1 Raise the vehicle on a lifting platform ⇒ *Workshop Manual '4X00IN Lifting the vehicle'*.
- 2 Remove rear left wheel housing liner ⇒ *Workshop Manual '536919 Removing and installing rear wheel housing liner'*.
- 3 Remove cover for center underbody at the left side ⇒ *Workshop Manual '519319 Removing and installing cover for centre underbody'*.

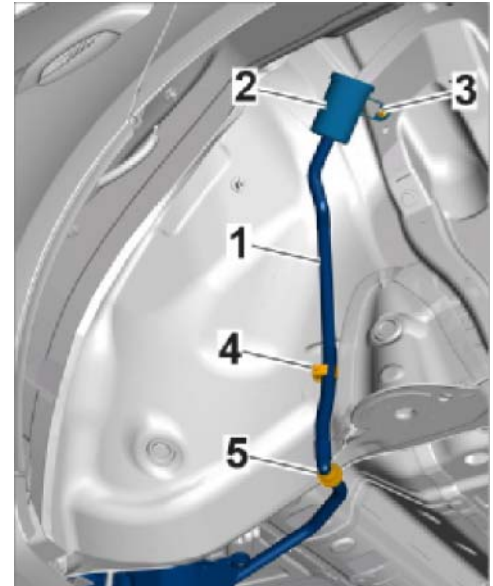
Replacing ventilation line with filter element

- Work Procedure: 1 Remove ventilation line with filter element.
- 1.1 Loosen and unscrew fastening nut ⇒ *Replacing ventilation line -3-* for filter element ⇒ *Replacing ventilation line -2-* in the left wheel housing.
- 1.2 Unclip ventilation line ⇒ *Replacing ventilation line -1-* from the line bracket ⇒ *Replacing ventilation line -4-* in the wheel housing.
- 1.3 Release quick connector ⇒ *Replacing ventilation line -5-* for ventilation line and pull off ventilation line ⇒ *Replacing ventilation line -1-*.
- 1.4 Remove ventilation line ⇒ *Replacing ventilation line -1-* together with the filter element ⇒ *Replacing ventilation line -2-* from the wheel housing.



Replacing ventilation line

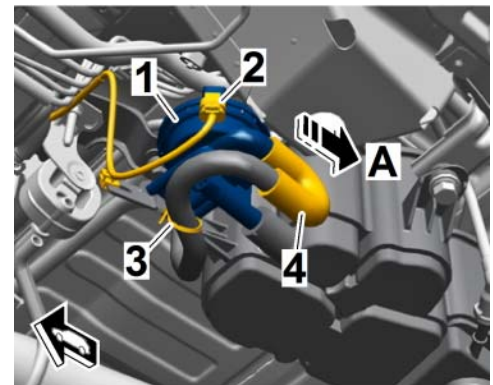
- 2 **Install new** ventilation line with filter element.
- 2.1 Position filter element \Rightarrow *Replacing ventilation line -2-* on the stud in the wheel housing and screw on fastening nut \Rightarrow *Replacing ventilation line -3-* by only a few turns initially.
 - 2.2 Connect ventilation line \Rightarrow *Replacing ventilation line -1-* at the quick connector \Rightarrow *Replacing ventilation line -5-* until the connector engages securely with an audible click.
 - 2.3 Clip in ventilation line \Rightarrow *Replacing ventilation line -1-* on the line bracket \Rightarrow *Replacing ventilation line -4-* in the wheel housing.
 - 2.4 Tighten fastening nut \Rightarrow *Replacing ventilation line -3-* for the filter element.
Tightening torque 5 Nm (3.5 ftlb.)



Replacing ventilation line

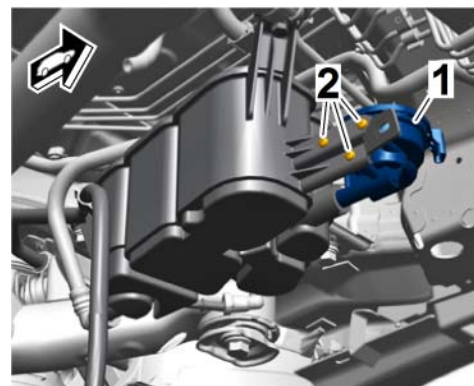
Replacing tank leakage diagnosis module

- Work Procedure: 1 Remove tank leakage diagnosis module.
- 1.1 Release and disconnect electric plug connection \Rightarrow *Disconnecting connections -2-* on the tank leakage diagnosis module \Rightarrow *Disconnecting connections -1-*.
 - 1.2 Cut and remove tie-wrap \Rightarrow *Disconnecting connections -3-* on the hose line for tank ventilation.
 - 1.3 Loosen connecting hose \Rightarrow *Disconnecting connections -4-* for tank ventilation at the tank leakage diagnosis module \Rightarrow *Disconnecting connections -1-* and pull it off \Rightarrow *Disconnecting connections*.



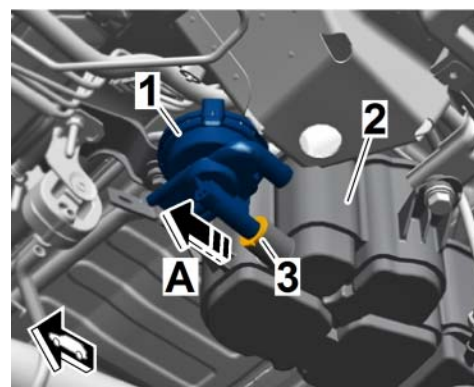
Disconnecting connections

- 1.4 Loosen and unscrew fastening screws ⇒ *Loosening tank leakage diagnosis module -2-* for the tank leakage diagnosis module ⇒ *Loosening tank leakage diagnosis module -1-*.



Loosening tank leakage diagnosis module

- 1.5 Carefully pull tank leakage diagnosis module ⇒ *Removing tank leakage diagnosis module -1-* out of the connection on the carbon canister ⇒ *Removing tank leakage diagnosis module -2-* and remove it ⇒ *Removing tank leakage diagnosis module -3-* between the tank leakage diagnosis module and carbon canister.



Removing tank leakage diagnosis module

- 2 Install new tank leakage diagnosis module.



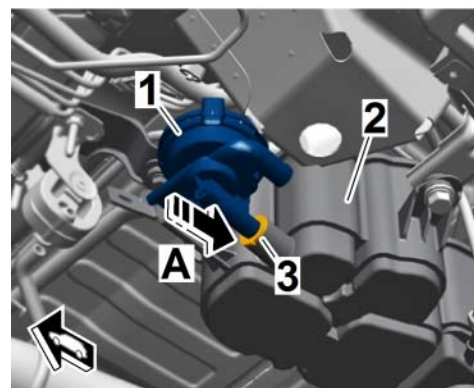
Information

The installation sequence must always be observed in order to prevent leaks that can cause fuel vapors to leak out and result in activation of the Check Engine light.

- No lubricants should be used on the sealing sleeves in order to install the tank leakage diagnosis module on the carbon canister.

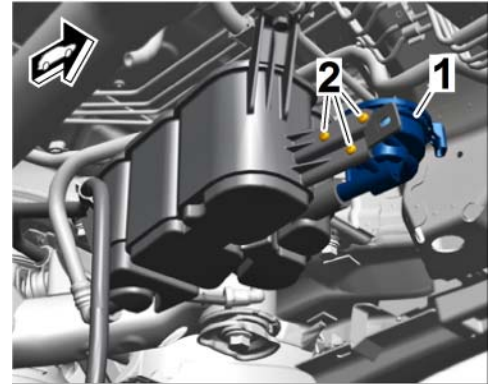
- 2.1 **Push new** sealing sleeve ⇒ *Installing tank leakage diagnosis module -3-* for the tank leakage diagnosis module fully into the connection on the carbon canister ⇒ *Installing tank leakage diagnosis module -2-*.

- 2.2 Carefully push connecting pipe for the tank leakage diagnosis module ⇒ *Installing tank leakage diagnosis module -1-* through the sealing sleeve and as far as it will go ⇒ *Installing tank leakage diagnosis module -3-* into the connection on the carbon canister ⇒ *Installing tank leakage diagnosis module -2-* (⇒ *Installing tank leakage diagnosis module*).



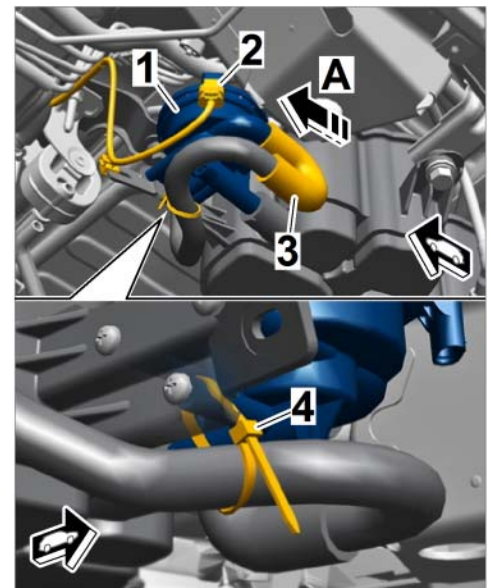
Installing tank leakage diagnosis module

- 2.3 Screw in and tighten fastening screws \Rightarrow *Securing tank leakage diagnosis module -2-* for the tank leakage diagnosis module \Rightarrow *Securing tank leakage diagnosis module -1-*.
Tightening torque 1.5 Nm (1 ftlb.)
 ± 0.3 Nm (± 0.2 ftlb.)



Securing tank leakage diagnosis module

- 2.4 Push connecting hose \Rightarrow *Connecting connections -3-* for tank ventilation as far as it will go onto the tank leakage diagnosis module \Rightarrow *Connecting connections -1-* (\Rightarrow *Connecting connections*).
- 2.5 Secure hose line for tank ventilation as shown \Rightarrow *Connecting connections -bottom-* using a tie-wrap \Rightarrow *Connecting connections -4-*, Part No. N 106 478 01, on the tank leakage diagnosis module.
- 2.6 Connect electric plug connection \Rightarrow *Connecting connections -2-* to the tank leakage diagnosis module \Rightarrow *Connecting connections -1-* until the connector engages securely.



Connecting connections

Concluding work

- Work Procedure: 1 Install cover for center underbody at the left side \Rightarrow *Workshop Manual '519319 Removing and installing cover for centre underbody'*.
- 2 Install rear left wheel housing liner \Rightarrow *Workshop Manual '536919 Removing and installing rear wheel housing liner'*.
- 3 Lower the vehicle and remove it from the lifting platform.
- 4 Attach **Recall Proof of Completion label** to the front lid (**California dealers only**).
Instructions for attaching labels

- Surfaces on which you intend to attach the label must be clean, dry and free from grease and oil residues.
- Before attaching the label, clean the surfaces using a suitable cleaning agent and a clean, grease-free and lint-free cloth.
- This label must not be affixed over existing label.
- Attach label only at the specified positions.

4.1 Fill out the Recall Proof of Completion label
 ⇒ *Recall Proof of Completion Label* fully and correctly. This includes the recall code "WLH9", your dealer code and the repair date.

4.2 Clean the surface in the lower area on the front lid at the left-hand side in direction of travel at which the Recall Proof of Completion label must be attached ⇒ *Proof of Completion Label: specified position (Exemplary illustration — Macan (95B) position accordingly)* -**arrow**- using a suitable cleaning agent and a clean, grease-free and lint-free cloth.

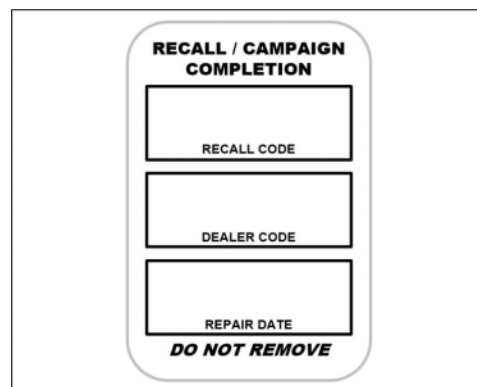
4.3 Affix Recall Proof of Completion label in the lower area of the front lid at the lefthand side in direction of travel ⇒ *Proof of Completion Label: specified position (Exemplary illustration — Macan (95B) position accordingly)* -**arrow**-.

4.4 Close front lid.

5 Fill out Recall Proof of Correction Certificate and supply to customer (California dealers only). Proof of Correction Certificates can be ordered through PPL in packs of 250, or a template can be used which is found on PPN: <https://ppn.porsche.com/portal/docs/DOC-427025>

6 Enter the campaign in the Warranty and Maintenance booklet and provide signed proof of correction to customer.

- References:
- ⇒ *Workshop Manual '4X00IN Lifting the vehicle'*
 - ⇒ *Workshop Manual '519319 Removing and installing cover for centre underbody'*
 - ⇒ *Workshop Manual '536919 Removing and installing rear wheel housing liner'*



Recall Proof of Completion Label



Proof of Completion Label: specified position (Exemplary illustration — Macan (95B) position accordingly)

Warranty processing

Scope:

Working time:

Replacing filter element for tank leakage diagnosis module

Labor time: **118 TU**

Includes: Replacing tank leakage diagnosis module
 Raising and lowering the vehicle
 Removing and installing rear left wheel housing liner
 Removing and installing cover for center underbody
 Attach Recall Proof of Completion label and provide signed proof of correction to customer (California dealers only*)

Parts required:

V04015002	Ventilation line with filter element	1 ea.
V04015003A	Pressure switch for tank leakage diagnosis module	1 ea.
V04015003B	Sleeve	1 ea.
N 10647801	Tie-wrap	1 ea.
PNA EMI 000 00	Label - Recall Proof of Completion	1 ea.
PNA 999 100 235	Certificate - Recall Proof of Correction	1 ea.

*** California dealers only:**

- For warranty processing, enter the Part No. PNA EMI 000 00 with the designation "label" as a local part at US\$ 0.34 in the warranty claim.
- For warranty processing, enter the Part No. PNA 999 100 235 with the designation "certificate" as a local part at US\$ 0.01 in the warranty claim.

⇒ **Damage Code WLH9 066 000 2**

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