

**WG45 - Replacing Filter Element for Tank Leakage Diagnosis Module (Workshop Campaign)**

Vehicle Type: **Macan S/Macan Turbo**

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

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

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

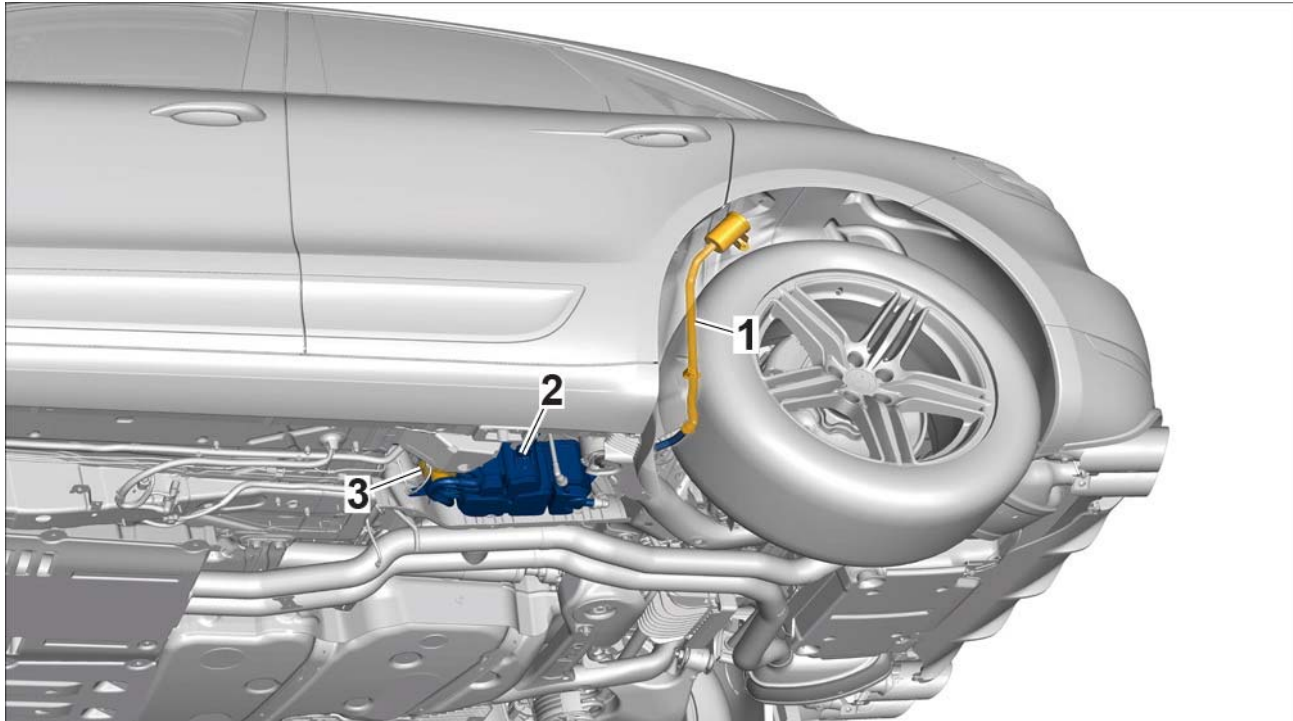
Concern: **There is a possibility that particles of dirt can get into the tank leakage diagnosis module and be deposited on the diaphragm seal under certain environmental conditions.**

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). This campaign affects 6,259 vehicles in North America.

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: Parts for this campaign will be automatically allocated for up to 50% of the vehicles that are serviced at your dealership. In approximately 45 days of the publishing of this campaign, your dealer will be automatically allocated an additional 30% of the required parts for vehicles that are still in need of repair.

Part No.	Designation	Qty.
000 043 210 50	⇒ Ventilation line with filter element	1 ea.
000 043 210 51	⇒ Pressure switch for tank leakage diagnosis module	1 ea.
000 043 303 47	⇒ Grommet for tank leakage diagnosis module	1 ea.
N 106 478 01	⇒ Tie-wrap	1 ea.

## Required tools

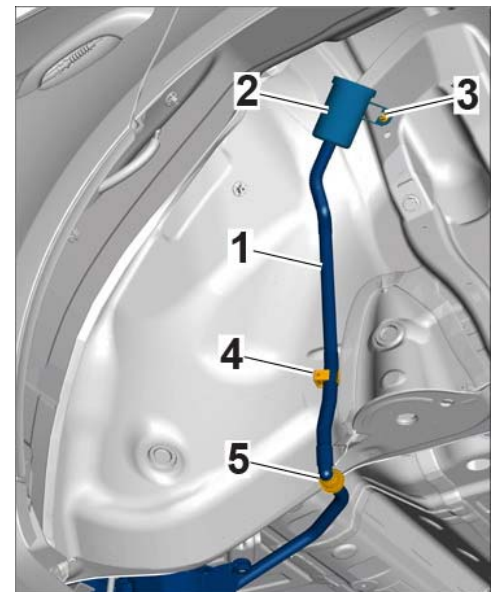
- Tools:
- Torque screwdriver, 1.5 - 3 Nm (1 - 2 ftlb.), e.g. **VAS 6494 - Torque screwdriver**
  - Torque wrench, 2 - 10 Nm (1.5 - 7.5 ftlb.), e.g. **V.A.G 1783 - Torque wrench, 2-10 Nm (1.5-7.5 ftlb.)**

## 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'*.

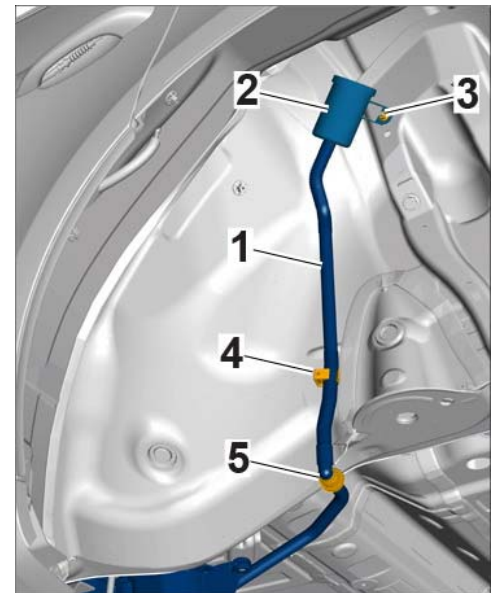
## Replacing ventilation line with filter element

- 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*

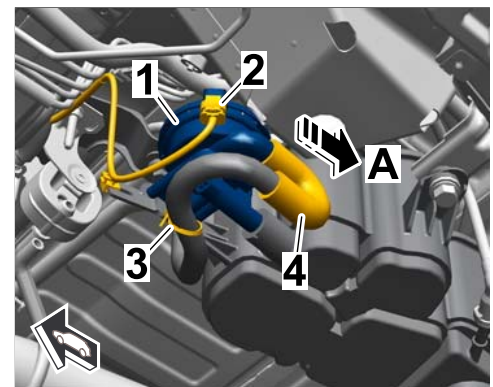
- 2 **Install new** ventilation line with filter element.
  - 2.1 Position filter element ⇒ *Replacing ventilation line -2-* on the stud in the wheel housing and screw on fastening nut ⇒ *Replacing ventilation line -3-* by only a few turns initially.
  - 2.2 Connect ventilation line ⇒ *Replacing ventilation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



*Replacing ventilation line*

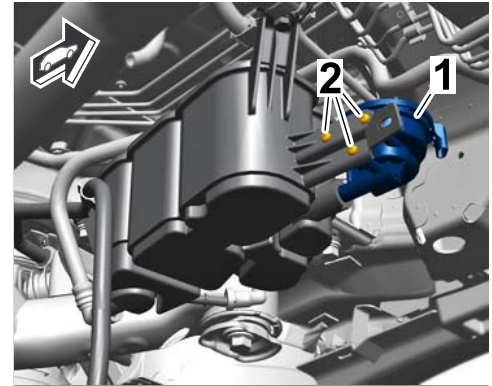
### Replacing tank leakage diagnosis module

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



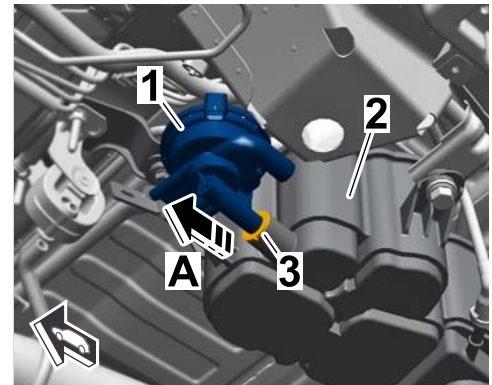
*Disconnecting connections*

- 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 -A-*. Remove sealing grommet ⇒ *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.

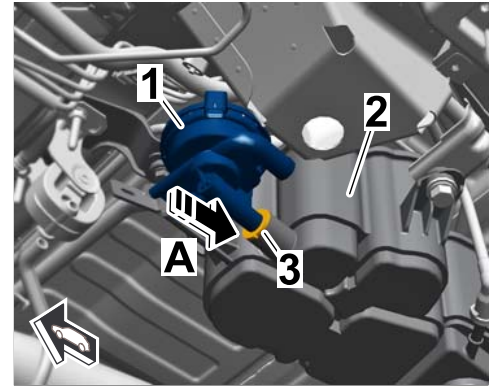


**Information**

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

- No lubricants should be used on the sealing sleeves in order to fit the tank leakage diagnosis module on the carbon canister.
- The sealing sleeves must be used again during the campaign.

- 2.1 **Push new** sealing grommet ⇒ *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 grommet 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 -A-*).
- 2.3 Screw in and tighten fastening screws ⇒ *Securing tank leakage diagnosis module -2-* for the tank leakage diagnosis module ⇒ *Securing tank leakage diagnosis module -1-*.  
**Tightening torque 1.5 Nm (1 ftlb.)**  
**+/-0.3 Nm (+/-0.2 ftlb.)**



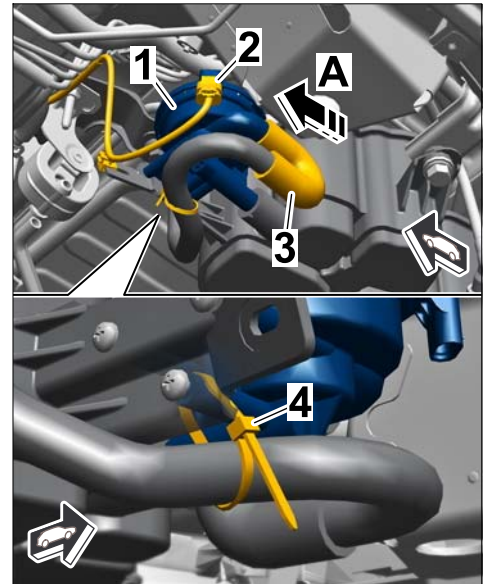
*Installing tank leakage diagnosis module*



*Securing tank leakage diagnosis module*



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



*Connecting connections*

**Concluding work**

- Work Procedure: 1 Install cover for centre underbody at the left side ⇒ *Workshop Manual '519319 Removing and installing cover for centre underbody'*.
- 2 Install rear left wheel housing liner ⇒ *Workshop Manual '536919 Removing and installing rear wheel housing liner'*.
- 3 Lower the vehicle and remove it from the lifting platform.
- 4 Enter the campaign in the Warranty and Maintenance booklet.

- 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'*

**Warranty processing**

Scope:

**Working time:**

Replacing filter element for tank leakage diagnosis module

Labor time: **102 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

**Parts required:**

000 043 210 50	Ventilation line with filter element	1 ea.
000 043 210 51	Pressure switch for tank leakage diagnosis module	1 ea.
000 043 303 47	Sleeve	1 ea.
N 106 478 01	Tie-wrap	1 ea.

⇒ **Damage Code WG45 066 000 2**

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