

**AF06 - Replacing Fuel Low-pressure Line in the Engine Compartment (Stop Sale/ Recall)**

Revisions: **Revision 1:**

November 20, 2015 — This revision amends the "Procedure" section of AF06. Additional instructions regarding the use of the **Spring Band Clamp Pliers** are noted below section 3.1

Model Year: **As of 2014 up to 2016**

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

Concerns: **Fuel low-pressure line in engine compartment**

Information: **There is a possibility that the fuel low-pressure line can start to leak near the connection point to the distributor pipe on the affected vehicles.**

As a result, fuel could leak out at the connection point. If this happens, the customer may get a smell of fuel.

Action Required: Replace the fuel low-pressure line with an improved low-pressure line. Use **new** spring band clamps, **B14.5 x 12** for this.

Affected Vehicles: Only the vehicles assigned to the campaign (see also PIWIS Vehicle Information). This campaign affects 25,325 vehicles in North America.

Parts Info: **NOTE:** Pats will be automatically allocated to your dealership as PCNA receives stock. Please do not create a parts order for this recall.

Part No.	Designation – Use	Qty.
000 043 303 69	⇒ Fuel low-pressure line – Engine compartment	1 ea.
000 043 303 87	⇒ Spring band clamp, B14.5 x 12 – Fuel line	3 ea.

- Tools:
- Assembly pliers for spring band clamps, e.g. **VAS 6890 - Spring band clamp pliers**
  - Torque wrench, 6 – 50 Nm (4.5 – 37 ftlb.), e.g. **V.A.G 1331 - Torque wrench, 6-50 Nm (4.5-37 ftlb.)**
  - Open-jawed wrench insert for torque wrench, a/f 27, e.g. **9821 - Open-ended wrench insert, a/f 27**

The following tool is also required for carrying out the test drive:

- **9818 - PIWIS Tester II**

### Preliminary work

- Procedure:
- 1 Disconnect the battery.  
For instructions, see ⇒ *Workshop Manual '2X00IN Work instructions after disconnecting the battery'*.
  - 2 Remove engine design cover.
  - 3 Remove rear section of the trim panel at the front right.  
For instructions, see ⇒ *Workshop Manual '700219 Removing and installing front trim panel'*.

### Replacing fuel low-pressure line in the engine compartment

#### WARNING

##### Toxic substances

- **Danger of poisoning or suffocation**
- ⇒ **Ventilate the work area well.**
- ⇒ **Never ingest or inhale.**
- ⇒ **Read specific information on the Hazard Sheet.**
- ⇒ **Wear personal protective gear.**

#### WARNING

##### Highly flammable or explosive materials

- **Danger of fire or explosion**
- ⇒ **Avoid contact with hot parts or sources of ignition.**
- ⇒ **Use suction to remove ignitable vapors.**
- ⇒ **Attach warning sign in a clearly visible position.**

#### NOTICE

##### Dirt on injection system components

- **Material damage**
- **Rough-running engine**
- **Bad exhaust emissions**

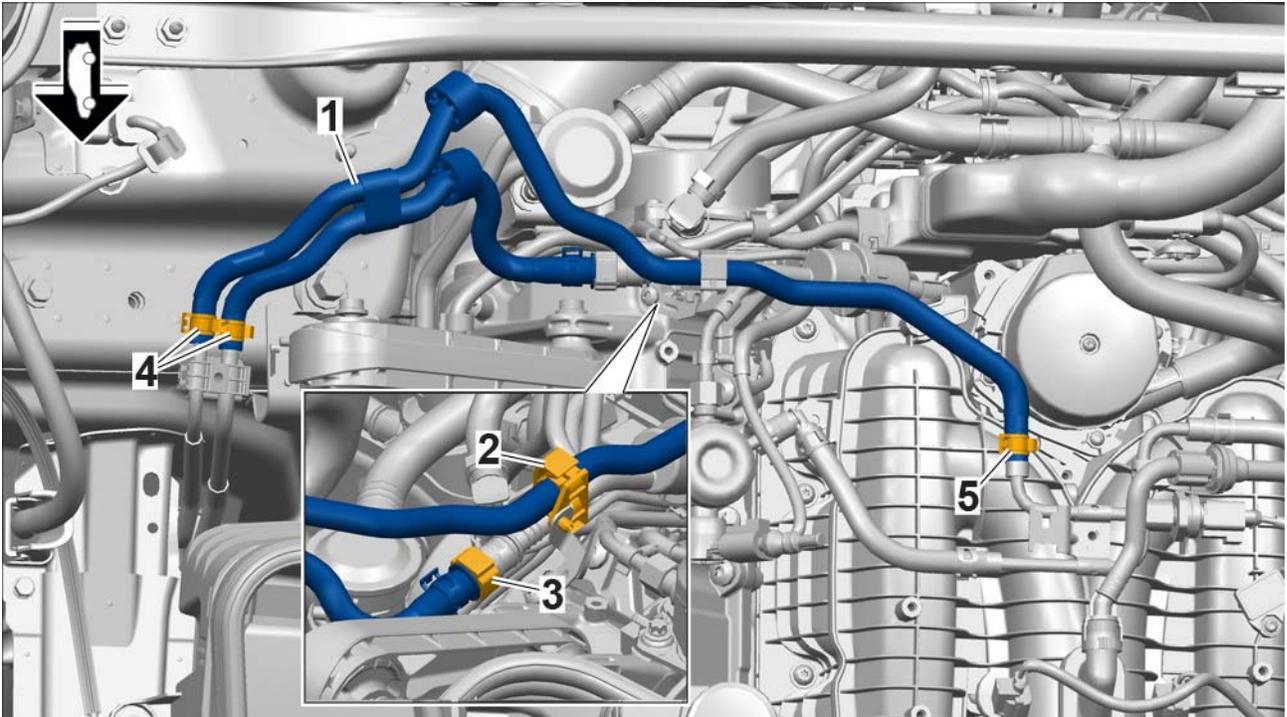
- ⇒ Thoroughly clean connection points and adjacent areas before loosening them. If the engine is very dirty, wash it before starting disassembly work.
- ⇒ Lay removed parts on a clean surface and cover them. Do not use fibre-shedding cloths.
- ⇒ Carefully cover components or seal them if repair work will not be carried out immediately. Place rubber caps on connections. Seal intake openings with film or adhesive tape.
- ⇒ Only install clean parts. Do not take spare parts out of the packaging until just before installation.
- ⇒ Never use compressed air when the system is open. Do not move the vehicle.

Procedure:



### Information

- The ignition must be switched off when working on the fuel system.
  - Soak up emerging fuel using suitable binding material or a cloth.
  - Cloths that have absorbed fuel must be disposed of according to the applicable national laws.
  - The fuel system must be depressurised before starting work on it.
  - Only work on the fuel system in well-ventilated rooms.
  - Any seals that were removed must always be replaced.
- 1 Carefully reduce the fuel pressure by loosening the fuel pressure sensor (low-pressure sensor).
    - 1.1 Loosen the fuel pressure sensor (low-pressure sensor) and unscrew it from the fuel distributor pipe by a few turns until fuel emerges.  
For instructions, see ⇒ *Workshop Manual '240919 Removing and installing fuel pressure sensor (low-pressure sensor)'*.
    - 1.2 As soon as the fuel pressure is reduced, tighten the fuel pressure sensor again using a suitable open-ended wrench insert, a/f 27, e.g. **9821 - Open-ended wrench insert, a/f 27** and a torque wrench. Counter at the fuel distributor pipe using an open-ended wrench.  
**Tightening torque 20 Nm (15 ftlb.)**
  - 2 Remove fuel low-pressure line ⇒ *Replacing fuel low-pressure line -1-*.



*Replacing fuel low-pressure line*

- 2.1 Release and open holder ⇒ *Replacing fuel low-pressure line -2-* for fuel low-pressure line. Remove the fuel line from the holder.
  - 2.2 Release quick connector ⇒ *Replacing fuel low-pressure line -3-* and pull out the fuel line.
  - 2.3 Loosen spring band clamps ⇒ *Replacing fuel low-pressure line -4-* and disconnect the fuel line from both connections for the fuel pipes.
  - 2.4 Loosen spring band clamp ⇒ *Replacing fuel low-pressure line -5-* and disconnect the fuel line from the distributor pipe.
  - 2.5 Remove fuel line.
- 3 **Install new** fuel low-pressure line ⇒ *Replacing fuel low-pressure line -1-*.
    - 3.1 **Slide new** spring band clamps ⇒ *Replacing fuel low-pressure line -4, 5-* onto the fuel line.
 

**Important:**

Only use the Spring Band Clam Pliers mentioned in the "Tools" section when completing this repair. Using traditional pliers could result in the bending of the clamp tabs and render them unusable.
    - 3.2 Push the fuel line as far as it will go onto the fuel pipes and distributor pipe and secure with the spring band clamps ⇒ *Replacing fuel low-pressure line -4, 5-*.

- 3.3 Push the fuel line as far as it will go into the quick connector ⇒ *Replacing fuel low-pressure line -3-*.
- 3.4 Place the fuel line in the holder ⇒ *Replacing fuel low-pressure line -2-* and lock the holder.

**Subsequent work**

- Procedure:
- 1 Install rear section of the trim panel at the front right.  
For instructions, see ⇒ *Workshop Manual '700219 Removing and installing front trim panel'*.
  - 2 Connect the battery ⇒ *Workshop Manual '2X00IN Work instructions after disconnecting the battery'*.



**WARNING**

**Leaking fuel supply lines**

- **Emerging fuel**
- **Risk of fire**

⇒ **Perform leak test.**

- 3 Bleed the fuel system and check for leaks.



**Information**

- The fuel system connections must not be opened in order to bleed the system. The fuel system is bled automatically when the engine is running.
- If there is a larger quantity of air in the fuel system, the engine can go into limp-home mode during the test drive. If this happens, switch off the engine, erase the fault memory and continue the test drive.

- 3.1 Leave the engine running at idle speed for a few minutes without pressing the accelerator.
- 3.2 Stop the engine and switch off the ignition.
- 3.3 Perform a visual inspection for leaks on the fuel system.
- 3.4 Then perform a test drive with at least one full-load acceleration.
- 3.5 Check the fuel system for leaks again.
- 4 Install engine design cover.
- 5 Enter the campaign in the Warranty and Maintenance booklet.

**Warranty Invoicing**

Scope:

**Working time:**

Replacing fuel low-pressure line in the engine compartment

Labor time: **94 TU**

Includes: Disconnecting and connecting battery  
 Removing and installing engine design cover  
 Removing and installing rear section of trim panel at the front right  
 Bleeding the fuel system and performing a visual inspection for leaks

**Parts required:**

000 043 303 69	Low-pressure fuel line	1 ea.
000 043 303 87	Spring band clamp, B14.5 x 12	3 ea.

**Warranty Invoicing:** ⇒ Damage code AF06 099 000 2

References: ⇒ *Workshop Manual '2X00IN Work instructions after disconnecting the battery'*  
 ⇒ *Workshop Manual '240919 Removing and installing fuel pressure sensor (low-pressure sensor)'*  
 ⇒ *Workshop Manual '700219 Removing and installing front trim panel'*

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