

WC61 - Replacing Locking Ring on Flange for Fuel Level Sender (Workshop Campaign)

Vehicle Type: **Boxster (981)/Boxster S (981)**

911 Carrera (991)/911 Carrera 4 (991)/911 Carrera S (991)/911 Carrera 4S (991)

Model Year: **2013**

Concerns: **Locking ring on flange for fuel level sender.**

Information: This is to inform you of a voluntary Workshop Campaign on the above-mentioned vehicles. There is the possibility that locking rings that do not meet the required specifications were installed on the flange for the fuel level sender on the affected vehicles due to a supplier error.

As a result, the locking ring may be difficult to remove as vehicles get older.

Action Required: Replace locking ring on flange for fuel level sender.

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 374 vehicles in North America.

Parts Info: **NOTE: PARTS WILL BE AUTOMATICALLY ALLOCATED TO ALL DEALERS WITH 2 OR MORE VINS ON THE AFFECTED VEHICLE LIST. DEALERSHIPS WITH ONLY 1 VIN ON THE AFFECTED VEHICLE LIST MUST REQUEST PARTS VIA A PAV.**

991.201.623.00 ⇒ Union nut 1 ea.

991.201.733.01 ⇒ Sealing ring 1 ea.

Tools: **9731/1 - Lug wrench**
Nr.90 Pos.3 - Torque wrench (10 - 60 Nm/7.5 - 44 ftlb.)

Work Procedure: See Attachment "A".

Claim Submission: See Attachment "B".

Attachment "A": **Work Procedure**
Preliminary work

- 1 Place protective covers on the vehicle.
- 2 Remove battery ⇒ *Workshop Manual '270619 Removing and installing battery - section on "Removing"*.

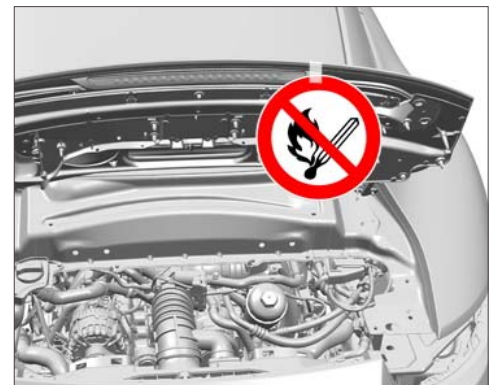
⚠ WARNING**Toxic substances**

- **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 inflammable or explosive materials**

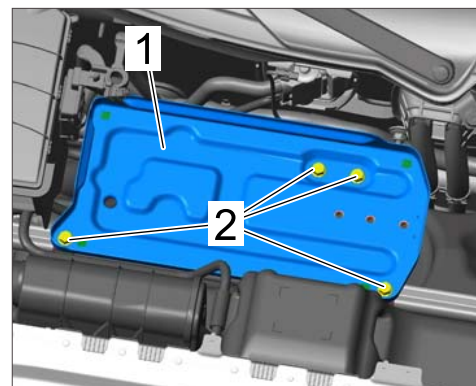
- **Danger of fire or explosion**
- ⇒ Avoid contact with hot parts or sources of ignition.
- ⇒ Use suction to remove ignitable vapors.
- ⇒ Attach warning sign in a clearly visible position.

- 3 Place a warning sign in a clearly visible position in the work area or on the vehicle.



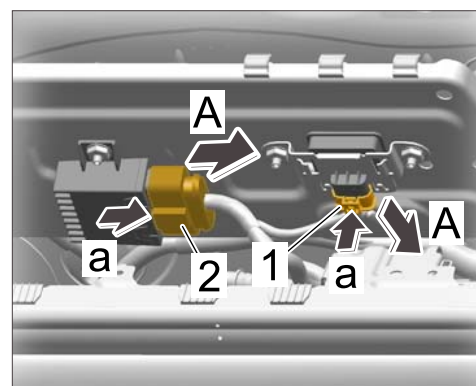
Example of warning sign

- 4 Unscrew fastening screws ⇒ *Battery console -2-* and remove battery console ⇒ *Battery console -1-*.



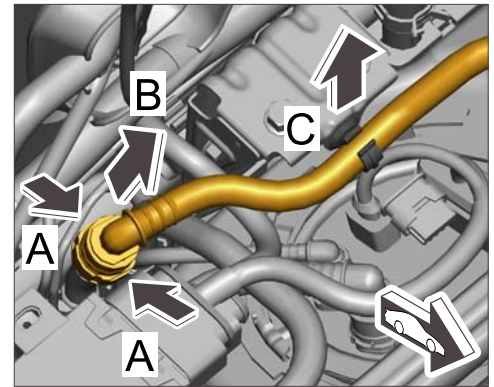
Battery console

- 5 Release electric plug connections ⇒ *Electric plug connections under battery console -1 and 2-* under the battery console ⇒ *Electric plug connections under battery console -arrows a-* and disconnect them ⇒ *Electric plug connections under battery console -arrows A-*.



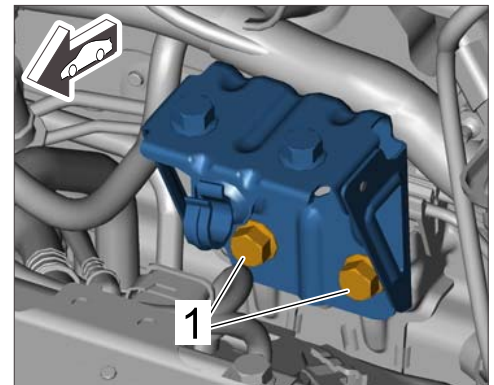
Electric plug connections under battery console

- 6 Loosen the vacuum line for the brake booster.
 - 6.1 Release vacuum line ⇒ *Disconnecting vacuum line -arrows A-* and pull it off the coupling ⇒ *Disconnecting vacuum line -arrow B-*.
 - 6.2 Unclip the vacuum line from the holder ⇒ *Disconnecting vacuum line -arrow C-*.



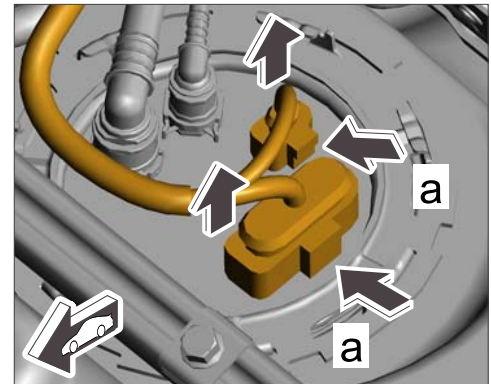
Disconnecting vacuum line

- 7 Remove battery console mounting.
 - 7.1 Unscrew fastening screws ⇒ *Battery console mounting -1-* for the battery console mounting.
 - 7.2 Remove mounting.



Battery console mounting

- 8 Release electric plug connections at the fuel level sender ⇒ *Disconnecting plug connections -arrows a-* and disconnect them ⇒ *Disconnecting plug connections -arrows-*.



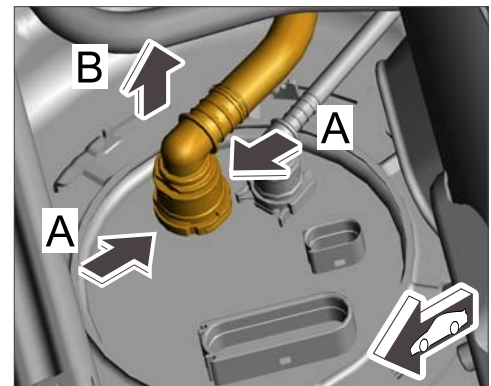
Disconnecting plug connections



Information

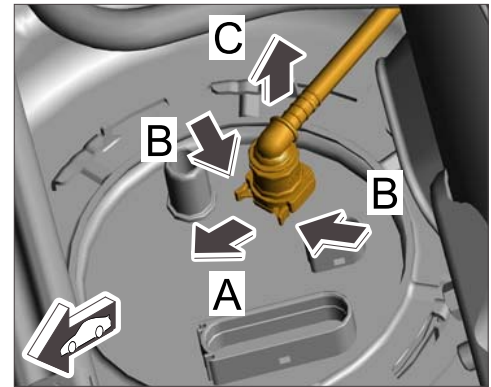
Watch out for escaping fuel when disconnecting fuel lines. Place a clean cloth around the connection point, then loosen the connection.

- 9 Release ⇒ *Disconnecting vent line -arrows A-* and pull off ⇒ *Disconnecting vent line -arrow B-* vent line.



Disconnecting vent line

- 10 Disconnect fuel line.
 - 10.1 Open the lock ⇒ *Disconnecting fuel line -arrow A-*.
 - 10.2 Release ⇒ *Disconnecting fuel line -arrows B-* and pull off ⇒ *Disconnecting fuel line -arrow C-* fuel line.



Disconnecting fuel line

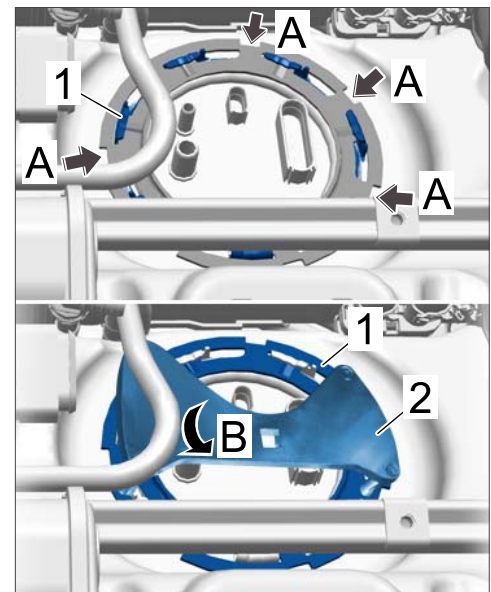
Replace locking ring for fuel level sender



Information

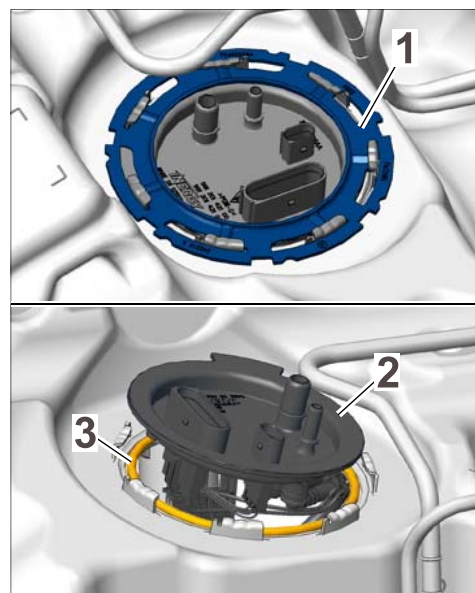
Before loosening the locking ring, mark the installation position of the flange for the fuel level sender using a touch-up stick.

- 1 Mark installation position of the flange for the fuel level sender.
- 2 **9731/1 - Lug wrench** ⇒ *Locking ring for fuel level sender with lug wrench -2-* must now be inserted into the rectangular grooves ⇒ *Locking ring for fuel level sender with lug wrench -arrows A-* on the locking ring ⇒ *Locking ring for fuel level sender with lug wrench -1-*.
- 3 Release locking ring ⇒ *Locking ring for fuel level sender with lug wrench -1-* by turning it counter-clockwise ⇒ *Locking ring for fuel level sender with lug wrench -arrow B-*.



Locking ring for fuel level sender with lug wrench

- 4 Remove locking ring ⇒ *Flange for fuel level sender -1-* and dispose of it.
- 5 Lift flange for fuel level sender ⇒ *Flange for fuel level sender -2-* up slightly, remove sealing ring ⇒ *Flange for fuel level sender -3-* on the fuel tank and replace it with a **new sealing ring** (Part No. 991.201.733.01).
- 6 Insert flange for fuel level sender back into the fuel tank and position it at the markings you applied earlier.
- 7 **Install new locking ring** (Part No. 991.201.623.00) ⇒ *Locking locking ring -1-* on the flange for the fuel level sender and lock the locking ring by turning it clockwise using **9731/1 - lug wrench**.

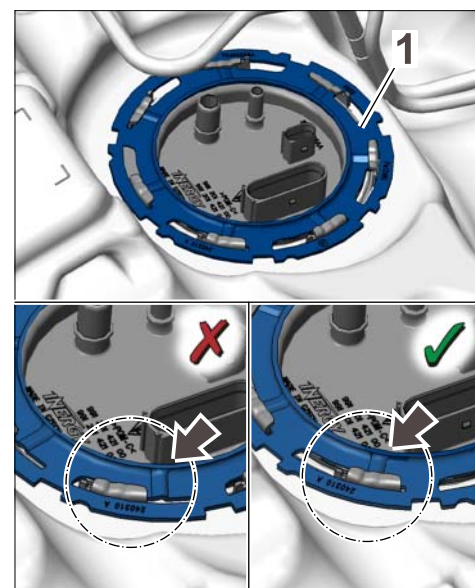


Flange for fuel level sender

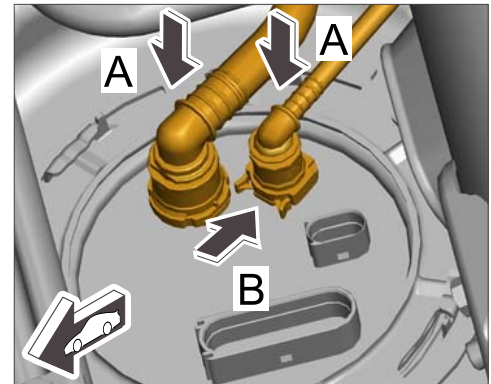
Check that the locking ring is locked correctly ⇒ *Locking locking ring -arrow-*.

Subsequent work

- 1 Connect both lines ⇒ *Connecting lines -arrows A-* until they engage securely and then lock the fuel line ⇒ *Connecting lines -arrow B-*.

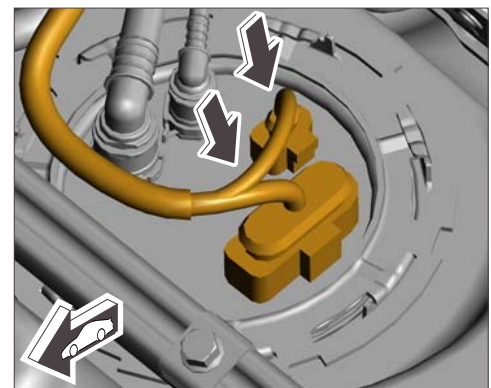


Locking locking ring



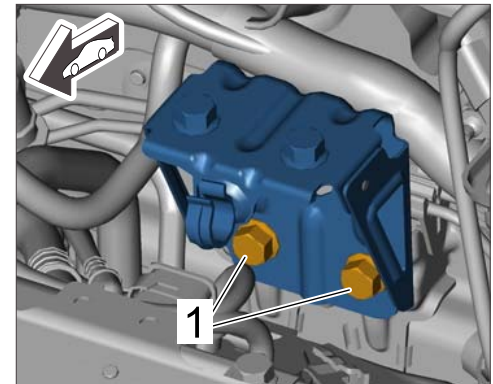
Connecting lines

- 2 Connect electric plug connections ⇒ *Connecting plug connections -arrows-* until they engage securely.



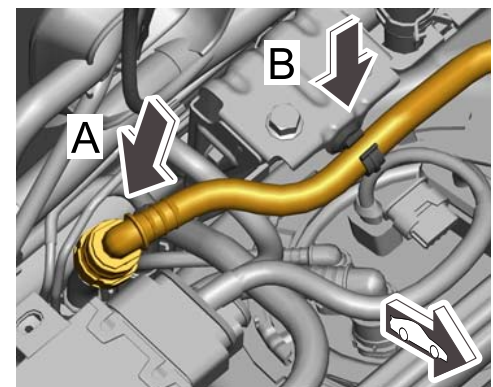
Connecting plug connections

- 3 Install battery console mounting.
 - 3.1 Place mounting in installation position.
 - 3.2 Tighten fastening screws ⇒ *Battery console mounting -1-* for the mounting. **Tightening torque 23 Nm (17ftlb.)**



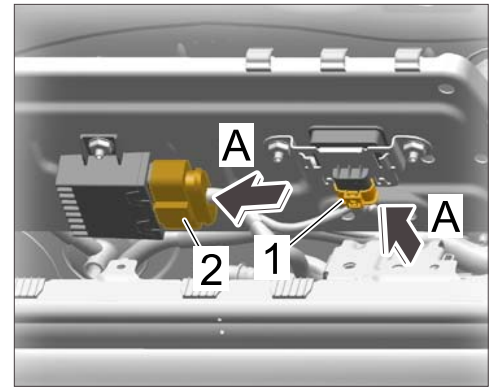
Battery console mounting

- 4 Secure the vacuum line.
 - 4.1 Connect vacuum line ⇒ *Securing vacuum line -arrow A-* until it engages securely.
 - 4.2 Clip vacuum line into the holder ⇒ *Securing vacuum line -arrow B-*.



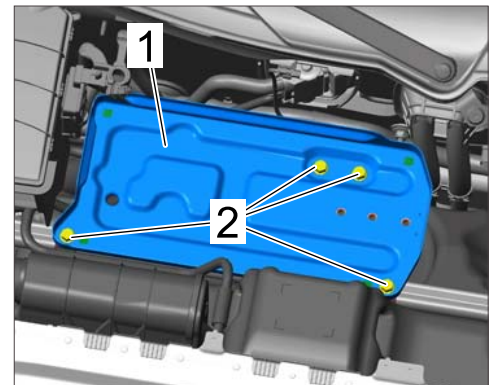
Securing vacuum line

- 5 Connect electric plug connections ⇒ *Electric plug connections on underside of battery console -1 and 2-* at the underside of the battery console ⇒ *Electric plug connections on underside of battery console -arrows A-* until they engage securely.



Electric plug connections on underside of battery console

- 6 Tighten fastening screws \Rightarrow *Battery console -2-* for the battery console \Rightarrow *Battery console -1-*.
Tightening torque 23 Nm (17 ftlb.)



Battery console

- 7 Install battery \Rightarrow *Workshop Manual '270619 Removing and installing battery - section on "Installing"*.
- 8 Remove protective covers and warning sign.
- 9 Carry out work instructions after disconnecting the battery \Rightarrow *Workshop Manual '2X00IN Work instructions after disconnecting the battery'*.
- 10 Enter the workshop campaign in the Warranty and Maintenance booklet.

Attachment "B": **Claim Submission** - Workshop Campaign WC61
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:

Replacing locking ring on flange for fuel level sender Labor time: **72 TU**

Includes: Removing and installing front cover
 Removing and installing battery
 Carrying out work instructions after disconnecting the battery

Parts required:

991.201.623.00	Union nut	1 ea.
991.201.733.01	Sealing ring	1 ea.

⇒ Damage code WC61 066 000 2

- References: ⇒ *Workshop Manual '270619 Removing and installing battery'*
 ⇒ *Workshop Manual '2X00IN Work instructions after disconnecting the battery'*

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