



Workshop Manual

Audi Q3 2012 ➤

Audi Q3 China 2013 ➤

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Fuel supply system, petrol engines

Engine ID	CCZ C	CPS A	CGM A	CRH A	CTS A	CPT A	CSS A	CHP D	CCT A
	CUL B	CUL C	CZD A	CHP B	CZG A	CZE A	CZD B	CZG B	DBR A
	DBS A								

Edition 05.2016

List of Workshop Manual Repair Groups

Repair Group

00 - Technical data

20 - Fuel supply system



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Technical information should always be available to the foremen and mechanics, because their careful and constant adherence to the instructions is essential to ensure vehicle road-worthiness and safety. In addition, the normal basic safety precautions for working on motor vehicles must, as a matter of course, be observed.

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Fuel supply system, petrol engines - Edition 05.2016

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00 – Technical data

1 Safety precautions

(ARL004731; Edition 05.2016)

⇒ [“1.1 Safety precautions when working on the fuel system”, page 1](#)

⇒ [“1.2 Safety precautions when working on vehicles with start/stop system”, page 2](#)

⇒ [“1.3 Safety precautions when using testers and measuring instruments during a road test”, page 3](#)

1.1 Safety precautions when working on the fuel system

When working on the fuel system note the following warnings:

**WARNING**

The fuel system operates at extremely high pressure. This can cause injury.

- ◆ *Fuel supply line is pressurised. Wear safety goggles and protective clothing to avoid any contact with skin and risk of injury. Before opening hose connections wrap a clean cloth around the connection. Then release pressure by carefully pulling hose off connection.*

Health risk: avoid skin contact with fuel.

- ◆ *Avoid skin contact with fuel. Wear fuel-resistant gloves.*

Risk of fire due to escaping fuel.

- ◆ *For safety reasons, the power supply to the fuel pump must be disconnected before opening the fuel system. Otherwise the fuel pump will be activated when the driver's door is opened.*
- ◆ *Disconnect power supply by removing fuse for fuel pump control unit - J538- /fuel delivery unit ⇒ Current flow diagrams, Electrical fault finding and Fitting locations, or disconnect battery.*

Mobile phones can cause an explosion risk.

- ◆ *Ensure that any mobile phones are well clear of the work-bay.*

Perform the following steps before starting work on the fuel system:

- ◆ Fuel tank must not be full. The amount of fuel which can be left in the fuel tank is indicated in the corresponding procedure description. Drain fuel tank if necessary ⇒ [page 10](#) .
- ◆ Before commencing work, switch on exhaust extraction system and place an extraction hose close to the opening in the fuel tank to extract escaping petrol fumes.
- ◆ If no exhaust extraction system is available, a radial fan with a displacement of at least 15 m³/h can be used (the fan motor must be clear of the air stream).

Fuel tank must be empty when installing and removing to reduce weight. Drain fuel tank if necessary ➔ [page 10](#) .

Observe the following to prevent injuries to persons and damage to the injection and ignition system:

- ◆ Persons wearing a cardiac pacemaker must at all times maintain a safe distance from high-voltage components such as the ignition system and xenon headlights.
- ◆ Do not touch or disconnect ignition coils with output stages when the engine is running or being turned at cranking speed.
- ◆ Always switch off the ignition before connecting or disconnecting electrical wiring for the injection or ignition system or tester cables.
- ◆ Always switch off ignition before washing engine.
- ◆ When installing, note colour coding of plug-in connectors.
- ◆ Plug-in connectors should engage audibly when connecting.
- ◆ Pull plug-in connectors to check that they are correctly engaged.
- ◆ Erase any entries in event memory resulting from testing or installation ➔ Vehicle diagnostic tester, Guided Functions, then Generate readiness code.



Caution

To prevent irreparable damage to the electronic components when disconnecting the battery:

- ◆ ***Observe notes on procedure for disconnecting the battery.***
- ◆ ***Always switch off the ignition before disconnecting the battery ➔ Electrical system; Rep. gr. 27 ; Battery; Disconnecting and connecting battery .***

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1.2 Safety precautions when working on vehicles with start/stop system

When performing repairs on vehicles with start/stop system, note the following:



WARNING

Risk of injury due to automatic engine start on vehicles with start/stop system.

- ◆ ***On vehicles with activated start/stop system (this is indicated by a message in the instrument cluster display), the engine may start automatically on demand.***
- ◆ ***Therefore it is important to ensure that the start/stop system is deactivated when performing repairs (switch off ignition, if required switch on ignition again).***

1.3 Safety precautions when using testers and measuring instruments during a road test

Note the following if testers and measuring instruments have to be used during a road test:



WARNING

Accidents can be caused if the driver is distracted by test equipment while road-testing, or if test equipment is not properly secured.

Persons sitting in the front passenger's seat could be injured if the airbag is triggered in an accident.

- *The use of test equipment while driving causes distraction.*
- *There is an increased risk of injury if test equipment is not secured.*

- ◆ *Test equipment must always be secured on the rear seat with a strap and operated from the rear seat by a second person.*

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2 Repair instructions

⇒ [“2.1 Rules for cleanliness”, page 4](#)

⇒ [“2.2 Test conditions”, page 4](#)

⇒ [“2.3 Bleeding fuel system”, page 4](#)

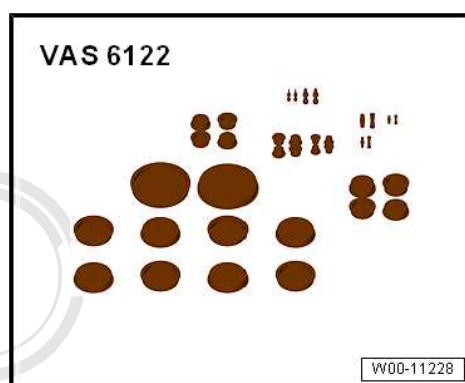
⇒ [“2.4 Contact corrosion”, page 5](#)

⇒ [“2.5 Routing and attachment of pipes, hoses and wiring”, page 5](#)

2.1 Rules for cleanliness

Even small amounts of dirt can cause malfunctions. When working on the fuel supply system and injection system, pay careful attention to the following basic rules:

- ◆ Carefully clean connection points and the surrounding area with engine cleaner or brake cleaner and dry thoroughly before opening.
- ◆ Immediately seal open lines and connections with clean plugs, for example from engine bung set - VAS 6122- .
- ◆ Place parts that have been removed on a clean surface and cover them over. Use only lint-free cloths.
- ◆ Carefully cover or seal open components if repairs cannot be carried out immediately.
- ◆ Only install clean components; replacement parts should only be unpacked immediately prior to installation. Do not use parts that have not been stored in their packing (e.g. in tool boxes etc.).
- ◆ When the system is open, do not work with compressed air and do not move the vehicle.
- ◆ Protect unplugged electrical connectors against dirt and moisture and make sure connections are dry when attaching.



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2.2 Test conditions

- Battery voltage at least 12.5 V
- Fuel pump fuse OK ⇒ Current flow diagrams, Electrical fault finding and Fitting locations.
- Fuel pump relay - J17- OK; checking in [\[Guided Fault Finding\]](#) ⇒ Vehicle diagnostic tester.
- Fuel pump control unit - J538- OK; checking in [\[Guided Fault Finding\]](#) ⇒ Vehicle diagnostic tester.
- Fuel tank at least 1/4 full.
- Fuel filter OK.
- Fuel lines OK (not obstructed or crushed).
- Ignition off.

2.3 Bleeding fuel system

- ◆ Due to the design of the engine, with a fuel system pressurisation pump located in the fuel tank, it is not necessary to bleed the fuel system.
- ◆ The fuel system bleeds itself when the starter is operated.

2.4 Contact corrosion

Contact corrosion can occur if unsuitable fasteners are used (e.g. bolts, nuts, washers, etc.).

For this reason, only fasteners with a special surface coating are used.

Additionally, all rubber and plastic parts and all adhesives are made of non-conductive materials.

Always install new parts if you are not sure whether used parts can be re-fitted ⇒ Electronic parts catalogue .

Note the following:

- ◆ We recommend using only genuine replacement parts; these have been tested and are compatible with aluminium.
- ◆ We recommend the use of Audi accessories.
- ◆ Damage caused by contact corrosion is not covered under warranty.

2.5 Routing and attachment of pipes, hoses and wiring



Caution

Risk of damage to pipes/hoses/wiring.

- ◆ *The original routing must be restored when installing any kind of pipes/hoses/wiring.*
- ◆ *Due to the restricted space in the engine compartment, it is important to ensure sufficient clearance from all moving or hot components.*



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20 – Fuel supply system

1 Fuel tank

⇒ "1.1 Exploded view - fuel tank", page 6

⇒ "1.2 Draining fuel tank", page 10

⇒ "1.3 Removing and installing fuel tank", page 15

1.1 Exploded view - fuel tank

⇒ "1.1.1 Exploded view - fuel tank, all vehicles except NAR versions", page 6

⇒ "1.1.2 Exploded view - fuel tank, NAR vehicles", page 8

1.1.1 Exploded view - fuel tank, all vehicles except NAR versions



Note

The illustration shows the fuel tank for rest-of-world vehicles; the version for China is similar.

1 - Securing strap (right-side)

2 - Bolt

- ☐ Renew after removing
- ☐ 20 Nm + turn 90° further

3 - Heat shield

- ☐ For fuel tank

4 - Fuel line

- ☐ To engine
- ☐ Do not kink
- ☐ Clipped onto fuel tank
- ☐ Disconnecting and connecting plug-in connectors ⇒ page 47

5 - Breather line

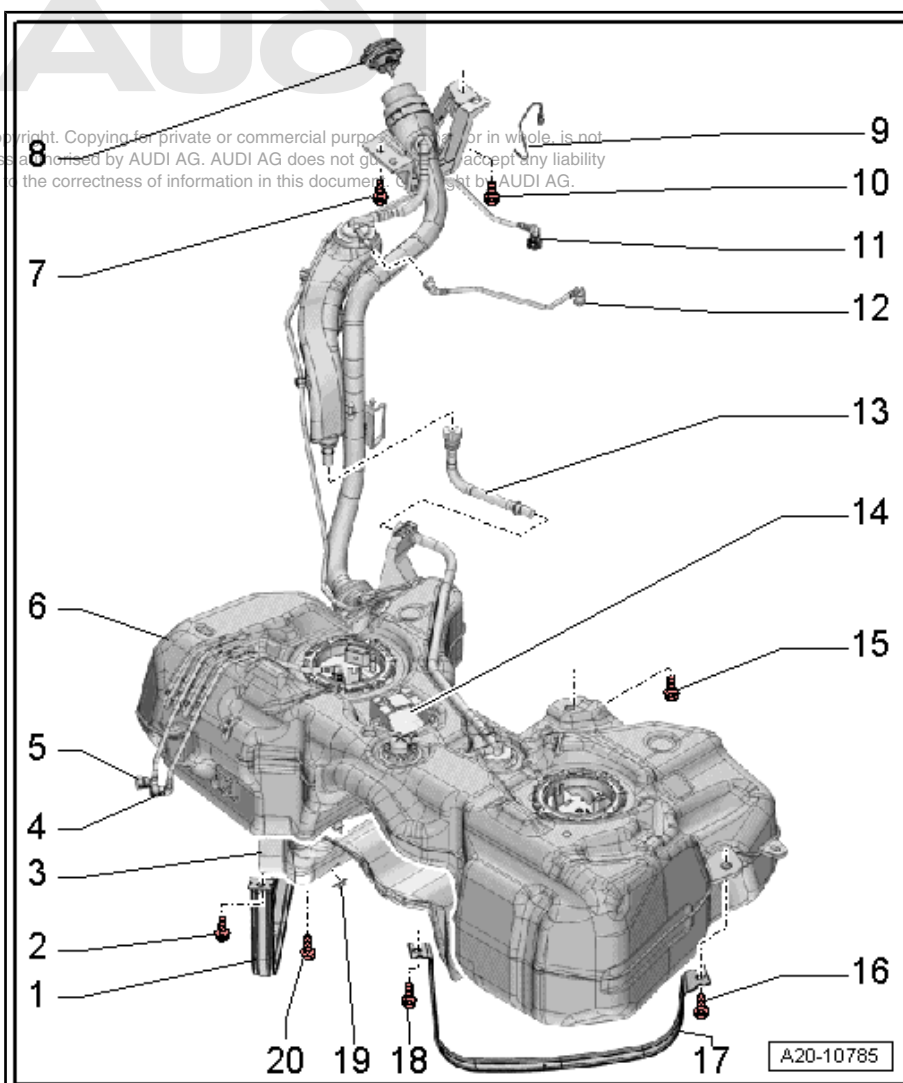
- ☐ To activated charcoal filter solenoid valve 1 - N80-
- ☐ Do not kink
- ☐ Clipped onto fuel tank
- ☐ Disconnecting and connecting plug-in connectors ⇒ page 47

6 - Fuel tank

- ☐ Allocation ⇒ Electronic parts catalogue
- ☐ Removing and installing ⇒ page 15

7 - Bolt

- ☐ Renew after removing
- ☐ 8 Nm + turn 90° further



8 - Filler cap

- ☐ Screw down until it clicks audibly
- ☐ Secured to tank flap unit

9 - Earth connection

- ☐ For fuel filler neck
- ☐ To eliminate electrostatic charge ⇒ [page 8](#)

10 - Bolt

- ☐ To secure fuel filler neck
- ☐ To eliminate electrostatic charge ⇒ [page 8](#)
- ☐ Renew after removing
- ☐ 8 Nm + turn 90° further

11 - Breather line

- ☐ To activated charcoal filter
- ☐ Do not kink
- ☐ Clipped onto fuel tank
- ☐ Disconnecting and connecting plug-in connectors ⇒ [page 47](#)

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12 - Breather line

- ☐ To activated charcoal filter
- ☐ Do not kink
- ☐ Disconnecting and connecting plug-in connectors ⇒ [page 47](#)

13 - Breather line

- ☐ Disconnecting and connecting plug-in connectors ⇒ [page 47](#)
- ☐ Renew seals

14 - Bracket

- ☐ For fuel pump control unit - J538-

15 - Bolt

- ☐ Renew after removing
- ☐ 20 Nm + turn 90° further

16 - Bolt

- ☐ Renew after removing
- ☐ 20 Nm + turn 90° further

17 - Securing strap (left-side)

18 - Bolt

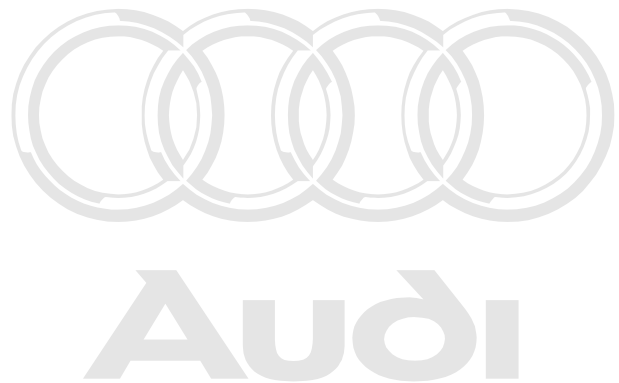
- ☐ Renew after removing
- ☐ 20 Nm + turn 90° further

19 - Speed nut

- ☐ For heat shield
- ☐ 2 Nm

20 - Bolt

- ☐ Renew after removing
- ☐ 20 Nm + turn 90° further



Earth connection for fuel filler neck

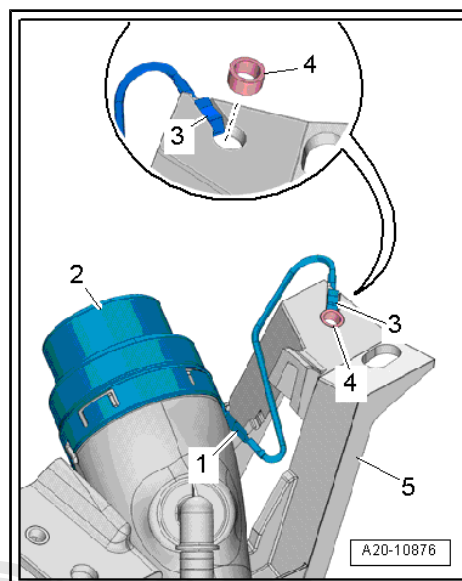
- Route earth connection as shown in illustration.
- Make sure that the following connectors are securely seated:
- ◆ Connector -1- for earth connection on threaded ring -2- of fuel filler neck
- Engage contact tab -3- of earth connection in mounting hole on fuel tank -5- and press in spacer bush -4-.



WARNING

Risk of explosion caused by electrostatic discharge.

- ◆ *After installation, use an ohmmeter to check the electrical connection between the metal ring on the fuel filler neck and a bare metal part on the body:*
- *Specification: approx. 0 Ω*



1.1.2 Exploded view - fuel tank, NAR vehicles

1 - Securing strap (right-side)

2 - Bolt

- ☐ Renew after removing
- ☐ 20 Nm + turn 90° further

3 - Heat shield

- ☐ For fuel tank

4 - Fuel line

- ☐ To engine
- ☐ Do not kink
- ☐ Clipped onto fuel tank
- ☐ Disconnecting and connecting plug-in connectors ⇒ [page 47](#)

5 - Breather line

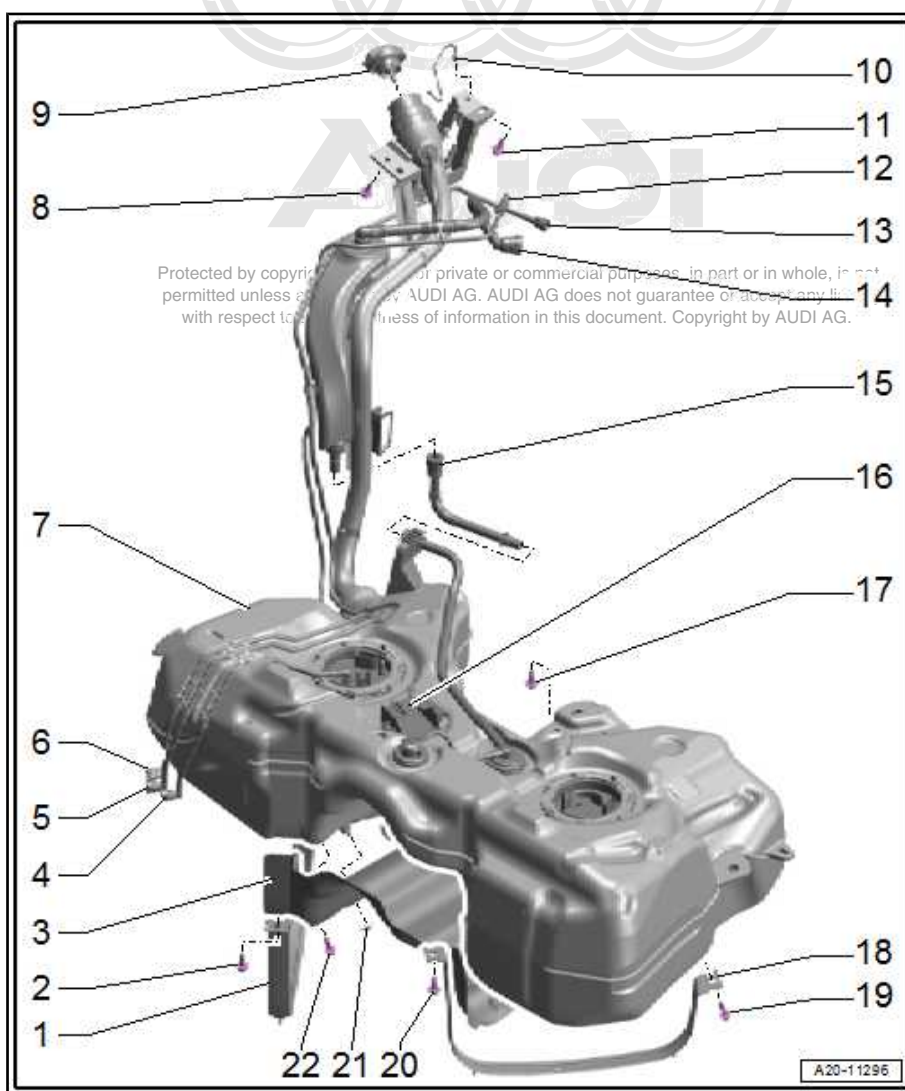
- ☐ To activated charcoal filter solenoid valve 1 - N80-
- ☐ Do not kink
- ☐ Clipped onto fuel tank
- ☐ Disconnecting and connecting plug-in connectors ⇒ [page 47](#)

6 - Leak diagnosis line

- ☐ To engine
- ☐ Clipped onto fuel tank
- ☐ Disconnecting and connecting plug-in connectors ⇒ [page 47](#)

7 - Fuel tank

- ☐ Allocation ⇒ Electronic parts catalogue
- ☐ Removing and installing ⇒ [page 15](#)



8 - Bolt

- ☐ Renew after removing
- ☐ 8 Nm + turn 90° further

9 - Filler cap

- ☐ Screw down until it clicks audibly
- ☐ Secured to tank flap unit

10 - Earth connection

- ☐ For fuel filler neck
- ☐ To eliminate electrostatic charge ⇒ [page 10](#)

11 - Bolt

- ☐ To secure fuel filler neck
- ☐ To eliminate electrostatic charge ⇒ [page 10](#)
- ☐ Renew after removing
- ☐ 8 Nm + turn 90° further

12 - Leak diagnosis line

- ☐ To diagnostic pump
- ☐ Clipped onto fuel tank

13 - Breather line

- ☐ To activated charcoal filter
- ☐ Do not kink
- ☐ Clipped onto fuel tank
- ☐ Disconnecting and connecting plug-in connectors ⇒ [page 47](#)

14 - Breather line

- ☐ To activated charcoal filter
- ☐ Do not kink
- ☐ Disconnecting and connecting plug-in connectors ⇒ [page 47](#)

15 - Breather line

- ☐ Disconnecting and connecting plug-in connectors ⇒ [page 47](#)
- ☐ Renew seals

16 - Bracket

- ☐ For fuel pump control unit - J538-

17 - Bolt

- ☐ Renew after removing
- ☐ 20 Nm + turn 90° further

18 - Securing strap (left-side)

19 - Bolt

- ☐ Renew after removing
- ☐ 20 Nm + turn 90° further

20 - Bolt

- ☐ Renew after removing
- ☐ 20 Nm + turn 90° further

21 - Speed nut

- ☐ For heat shield
- ☐ 2 Nm

22 - Bolt

- ☐ Renew after removing



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- 20 Nm + turn 90° further

Earth connection for fuel filler neck

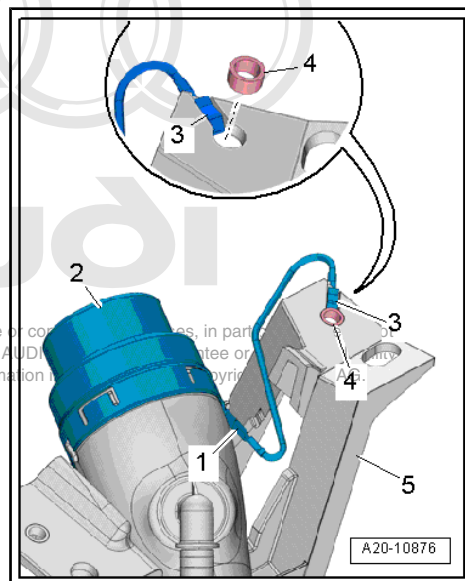
- Route earth connection as shown in illustration.
- Make sure that the following connectors are securely seated:
- ◆ Connector -1- for earth connection on threaded ring -2- of fuel filler neck
- Engage contact tab -3- of earth connection in mounting hole on fuel tank -5- and press in spacer bush -4-.



WARNING

Risk of explosion caused by electrostatic discharge.

- ◆ **After installation, use an ohmmeter to check the electrical connection between the metal ring on the fuel filler neck and a bare metal part on the body:**
- **Specification: approx. 0 Ω**



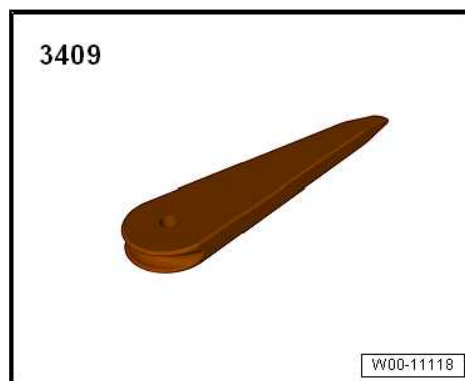
1.2 Draining fuel tank

A - Procedure if fuel tank is more than $\frac{3}{4}$ full ➔ [page 11](#) .

B - Procedure if fuel tank is less than $\frac{3}{4}$ full ➔ [page 13](#) .

Special tools and workshop equipment required

- ◆ Removal wedge - 3409-



- ◆ Wrench - T10202-



◆ Fuel extractor - VAS 5190A-



Procedure

- Observe safety precautions ➔ [page 1](#) .
- Observe rules for cleanliness ➔ [page 4](#) .
- Move front seats all the way forwards.



Caution

To prevent irreparable damage to the electronic components when disconnecting the battery:

- ◆ *Observe notes on procedure for disconnecting the battery.*

- Disconnect earth wire from battery terminal ➔ Electrical system; Rep. gr. 27 ; Battery; Disconnecting and connecting battery .

A - Procedure if fuel tank is more than $\frac{3}{4}$ full

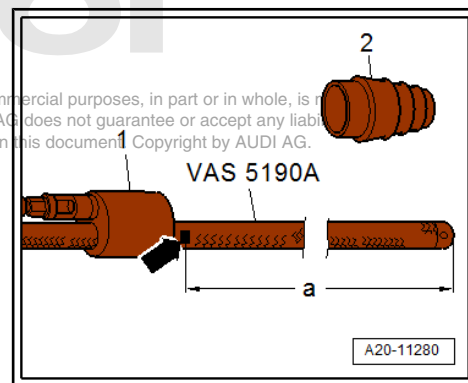


WARNING

Risk of explosion caused by electrostatic discharge.

- ◆ *Secure earth wire of fuel extractor -VAS 5190A- to a bare metal part on the body.*

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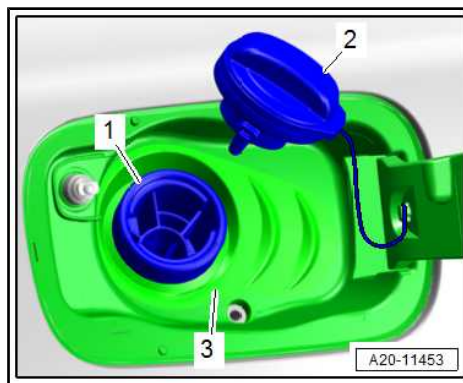
Note

- ◆ *Shaft end -1- and tapered adapter -2- of fuel extractor -VAS 5190A- are not used.*
- ◆ *Slide shaft end -1- slightly towards rear on hoses.*
- Use insulating tape to mark the extraction hose -arrow- at a distance of -a- = 1230 mm from the end of the hose.

- Open tank flap.
- Remove filler cap -2- for fuel filler neck -1-.

i Note

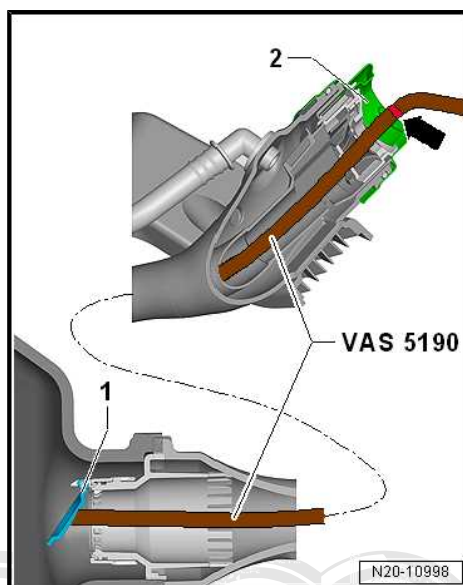
Disregard -item 3-.



i Note

A flap -1- is located at the bottom of the filler neck -2- in the fuel tank; it must not be damaged by the extraction hose from -VAS 5190A-. Therefore, only push the hose in as far as the tape marking -arrow-.

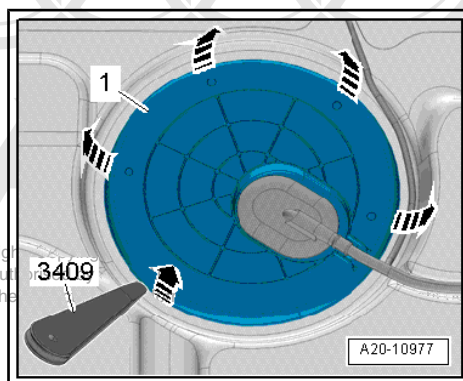
- Push extraction hose from -VAS 5190A- into fuel tank until marking on hose -arrow- is level with edge of filler neck.
- Extract fuel from tank via fuel filler neck.
- Pull out extraction hose carefully.



i Note

When no more fuel is extracted, the fuel tank has been drained enough for the flange to be opened safely.

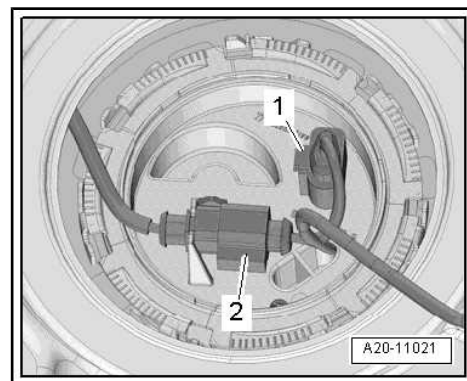
- Remove rear seat bench => General body repairs, interior; Rep. gr. 72 ; Rear seats; Removing and installing seat bench/ individual seats .
- Unclip cover -1- for flange (left-side) at retainers -arrows- using removal wedge - 3409- .



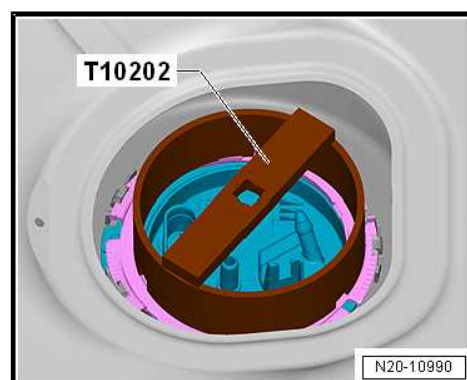
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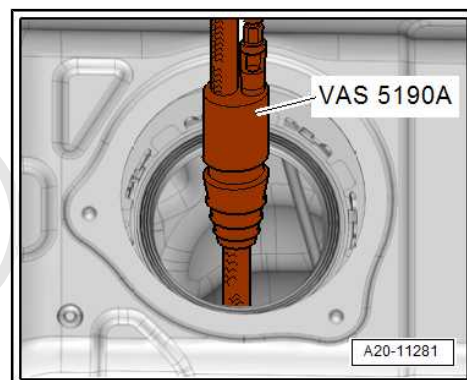
- Release retainer catch and unplug electrical connector -1- on flange (left-side).
- If fitted, disengage electrical connector -2- and move wiring clear to one side.



- Remove locking ring using wrench - T10202- .

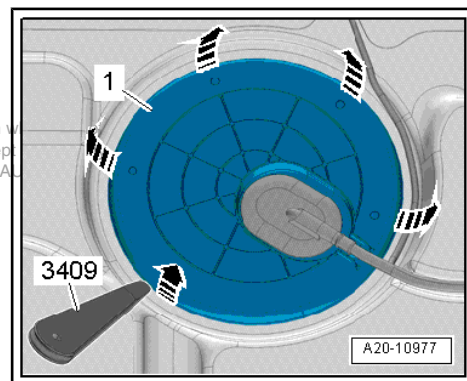


- Pull flange slightly out of opening in fuel tank.
- Extract fuel from both fuel tank chambers through opening for flange on fuel tank using fuel extractor - VAS 5190A- .
- Install flange ⇒ [page 14](#) .

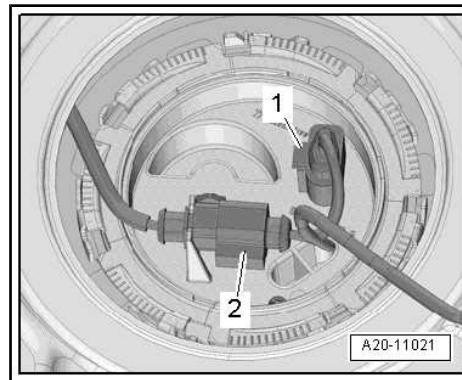


B - Procedure if fuel tank is less than $\frac{3}{4}$ full

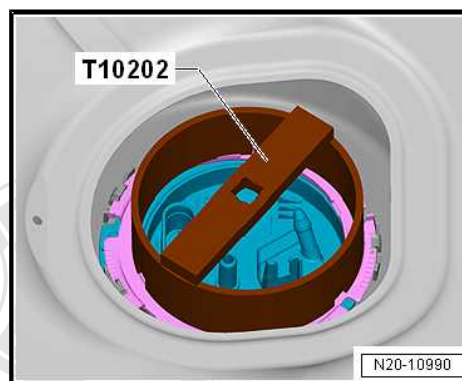
- Remove rear seat bench ⇒ General body repairs, interior; Rep. gr. 72 ; Rear seats; Removing and installing seat bench/ individual seats
- Unclip cover -1- for flange (left-side) at retainers -arrows- using removal wedge - 3409- .



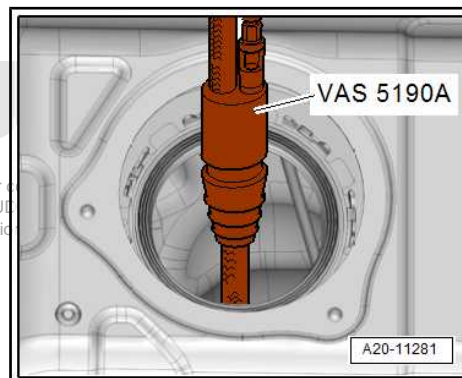
- Release retainer catch and unplug electrical connector -1- on flange (left-side).
- If fitted, disengage electrical connector -2- and move wiring clear to one side.



- Remove locking ring using wrench - T10202- .



- Pull flange slightly out of opening in fuel tank.
- Extract fuel from both fuel tank chambers through opening for flange on fuel tank using fuel extractor - VAS 5190A- .



Installing flange

Installation is carried out in the reverse order, note the following:



Note

- ◆ *Renew seals.*
- ◆ *Make sure that fuel hoses are securely fitted.*
- ◆ *When plugging in electrical connectors, make sure they engage correctly.*

- Install new seal -1- for flange (seal must be installed dry).

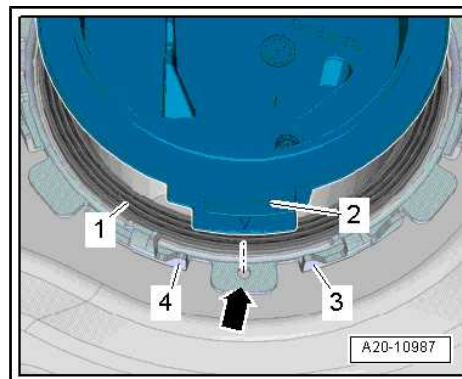


Caution

Leakage risk

- ◆ *The seal must not be pinched or damaged when installing the flange.*

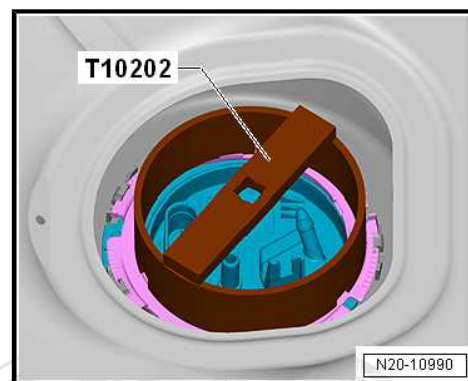
- Fit flange in correct installation position.
- Lug -2- on flange must point towards hole -arrow- on locking ring and must be between tabs -3 and 4- on fuel tank.



- Fit locking ring and secure using wrench - T10202- .
- Install rear seat bench ⇒ General body repairs, interior; Rep. gr. 72 ; Rear seats; Removing and installing seat bench/individual seats .

Tightening torques

- ◆ ⇒ ["2.1 Exploded view - fuel delivery unit/fuel gauge senders", page 23](#)



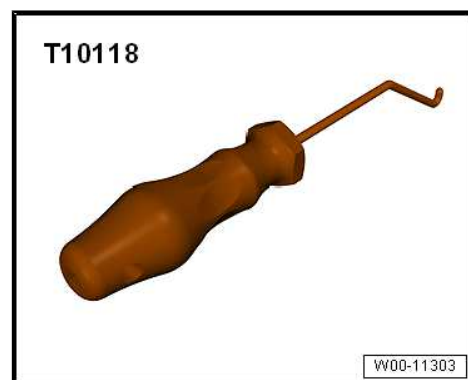
1.3 Removing and installing fuel tank

Special tools and workshop equipment required

- ◆ Removal wedge - 3409-



- ◆ Assembly tool - T10118-



- ◆ Engine and gearbox jack - VAS 6931-



Removing

- Observe safety precautions ⇒ [page 1](#) .
- Observe rules for cleanliness ⇒ [page 4](#) .

- Move front seats all the way forwards.



Caution

To prevent irreparable damage to the electronic components when disconnecting the battery:

- ◆ *Observe notes on procedure for disconnecting the battery.*

- Disconnect earth wire from battery terminal ⇒ Electrical system; Rep. gr. 27 ; Battery; Disconnecting and connecting battery .
- Remove rear seat bench ⇒ General body repairs, interior; Rep. gr. 72 ; Rear seats; Removing and installing seat bench/ individual seats .



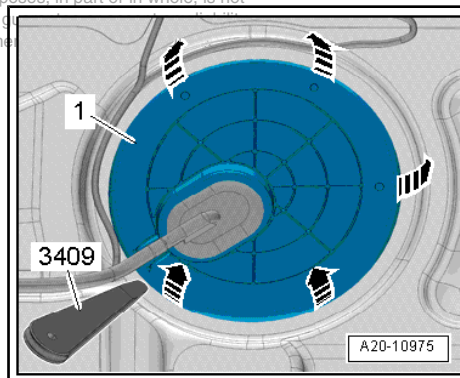
WARNING

Risk of accident caused by weight of fuel tank

- ◆ *Fuel tank must be empty when it is removed.*

- Drain fuel tank ⇒ [page 10](#) .
- Unclip cover -1- for flange (right-side) at retainers -arrows- using removal wedge - 3409- .

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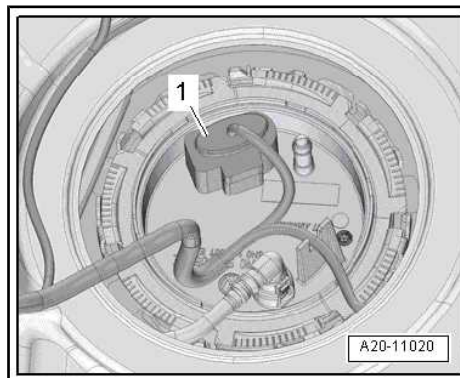


- Release retainer catch and unplug electrical connector -1- on flange (right-side).

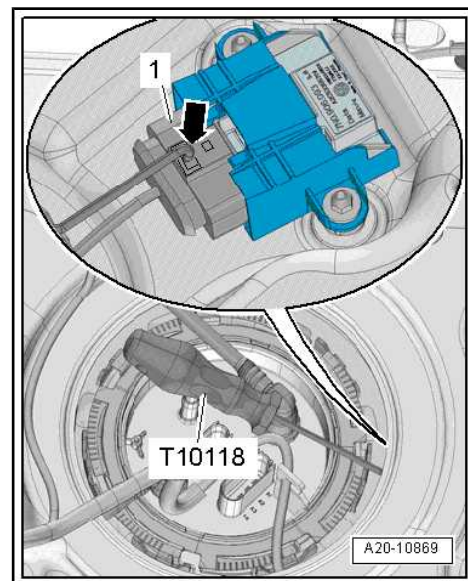


Note

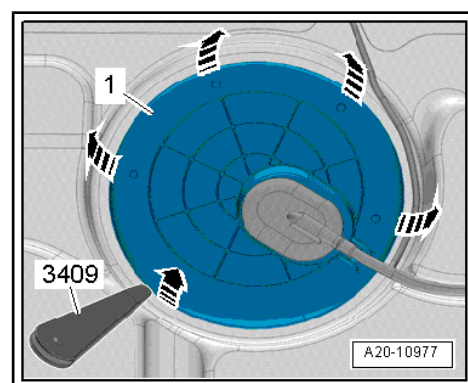
The illustration shows the installation position for rest-of-world/ NAR vehicles; other versions are similar.



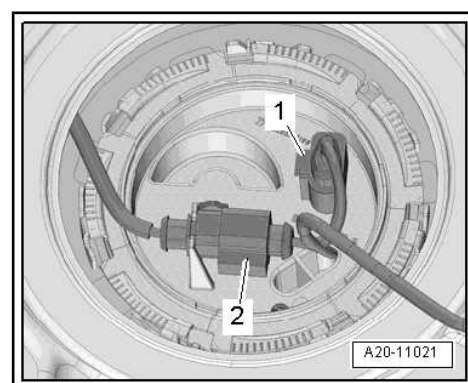
- Unplug electrical connector -1- for fuel pump control unit - J538- .
- To do so, feel for retainer catch -arrow- with your finger and hook assembly tool - T10118- into retainer catch.
- Pull assembly tool - T10118- until retainer catch is released.
- Unplug electrical connector at fuel pump control unit - J538- .



- Unclip cover -1- for flange (left-side) at retainers -arrows- using removal wedge - 3409- .



- Release retainer catch and unplug electrical connector -1- on flange (left-side).
- Release retainer catch and unplug electrical connector -2- (if fitted).

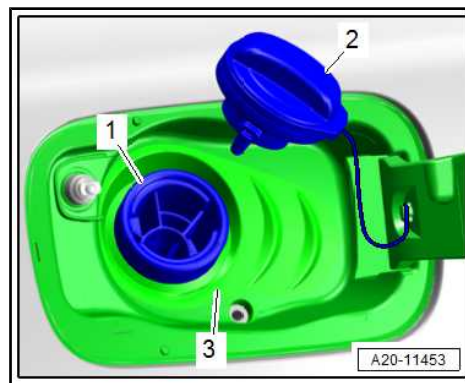


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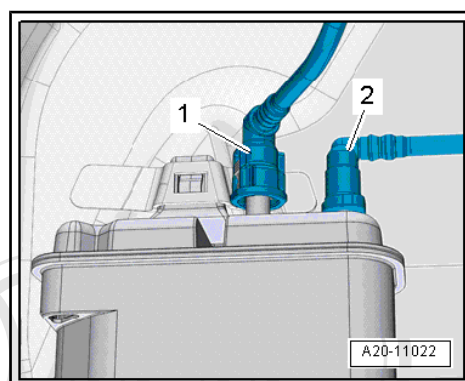
- Open tank flap.
- Clean area around fuel filler neck.
- Remove filler cap -2- for fuel filler neck.
- Disengage rubber sleeve -3- from fuel filler neck -1-.

Note

Seal off opening of fuel filler neck with a clean plug to prevent dirt from entering.

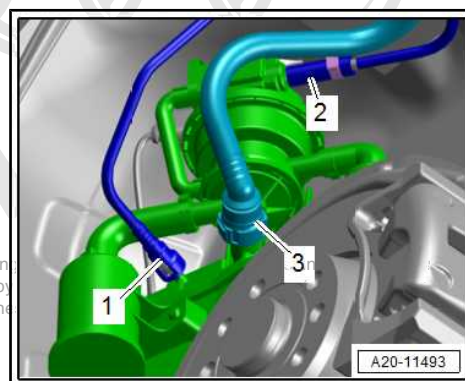


- Remove rear wheel housing liner (right-side) ⇒ General body repairs, exterior; Rep. gr. 66 ; Wheel housing liners; Removing and installing wheel housing liner (rear) .
- Disconnect breather lines -1 and 2- at activated charcoal filter. Disconnecting plug-in connectors ⇒ [page 47](#)



NAR vehicles:

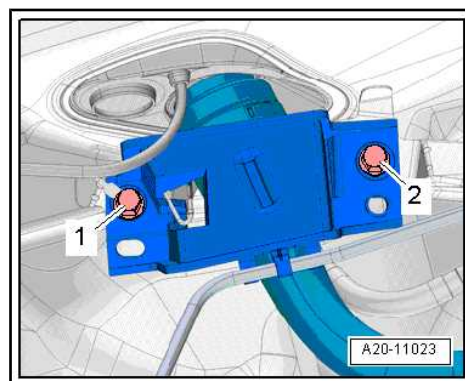
- Disconnect breather lines -1 and 3- at activated charcoal filter. Disconnecting plug-in connectors ⇒ [page 47](#)
- Detach leak diagnosis line -2- at diagnostic pump.



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All vehicles (continued):

- Remove bolts -1- and -2- for fuel filler neck.



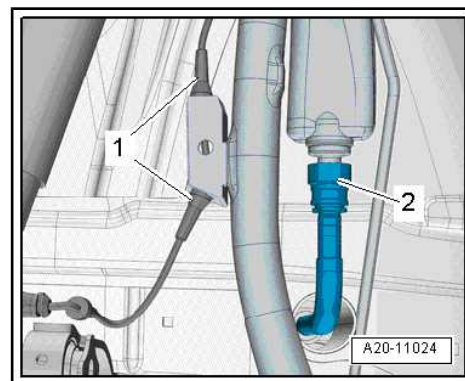
- Disengage electrical wire -1- for rear right speed sensor - G44- from bracket on filler neck.
- Disconnect breather line -2-. Disconnecting plug-in connectors ➔ [page 47](#)
- Remove rear section of exhaust system ➔ Rep. gr. 26 ; Exhaust pipes/silencer; Exploded view - silencer .
- Remove underbody trim panels (rear left and right) ➔ General body repairs, exterior; Rep. gr. 66 ; Underbody trim; Removing and installing underbody trim .



WARNING

Risk of injury - fuel system operates under high pressure.

- ◆ *To reduce the pressure in the fuel system, wrap a clean cloth around the connection and carefully loosen the connection.*

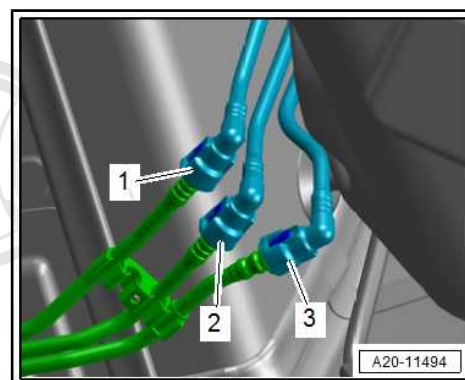


Rest-of-world/NAR vehicles:

- Disconnect fuel line -1- and breather line -2-. Disconnecting plug-in connectors ➔ [page 47](#)

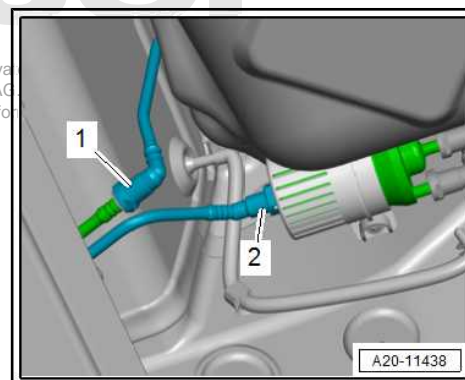
NAR vehicles:

- Disconnect leak diagnosis line -3-. Disconnecting plug-in connectors ➔ [page 47](#)



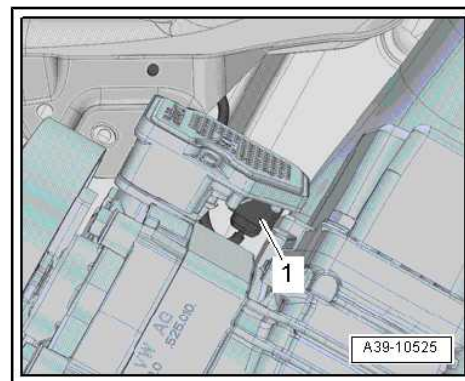
Version for China:

- Disconnect breather line -1- leading to activated charcoal filter for private use. Disconnecting plug-in connectors by AUDI AG with respect to the correctness of information ➔ [page 47](#)
- Disconnect fuel line -2- at fuel filter. Disconnecting plug-in connectors ➔ [page 47](#)



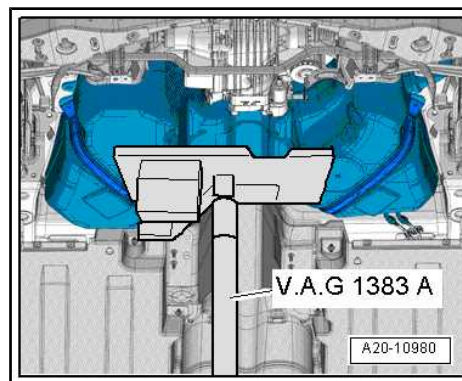
Vehicles with four-wheel drive:

- Remove propshaft ➔ Rep. gr. 39 ; Propshaft; Removing and installing propshaft .
- Release retainer catch and unplug electrical connector -1- for Haldex coupling.



All vehicles (continued):

- Position engine and gearbox jack under vehicle to support tank, as shown in illustration.
- In addition, a 2nd mechanic will be required to support the fuel tank at the rear by hand.



WARNING

Risk of accident caused by weight of fuel tank

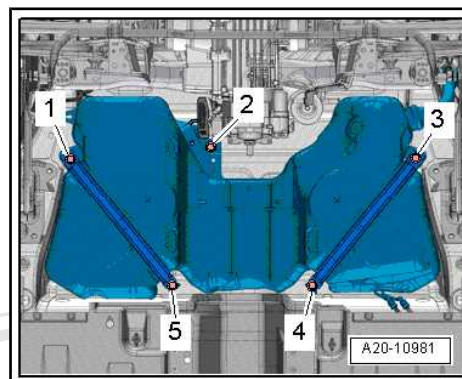
♦ *Fuel tank must be empty when it is removed.*

- Remove bolts -1 ... 5-.



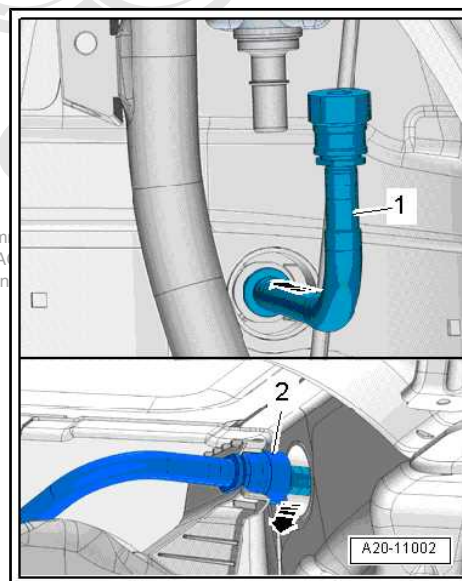
Note

For illustration purposes the fuel tank is shown without the engine and gearbox jack .



- Carefully lower fuel tank with engine and gearbox jack .
- At the same time, pull out breather line -1- for fuel filler neck inwards through body -arrows-.
- Take breather line out of retainer at connection piece -2- and disconnect breather line. Disconnecting plug-in connectors ➔ [page 47](#)
- Detach breather line.
- Remove fuel tank downwards (turning it sideways as required).
- In addition, a 2nd mechanic will be required to guide fuel filler neck out past trailing arm out by hand.

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Installing

Installation is carried out in the reverse order; note the following:



Note

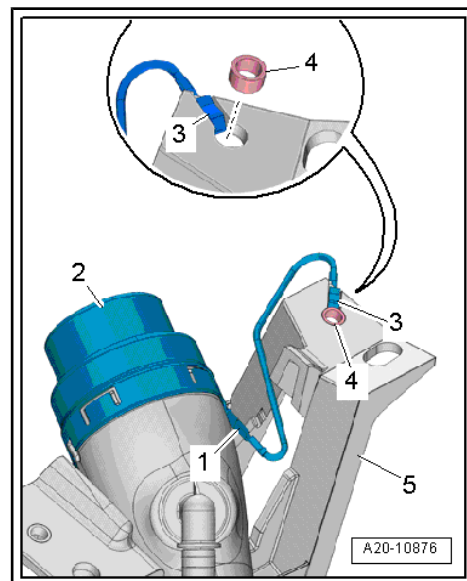
- ◆ *Renew seals.*
- ◆ *When plugging in electrical connectors, make sure they engage correctly.*
- Check earth wire for traces of oxidation at connectors; remove any oxidation if necessary.
- Check that the following connectors are securely seated:
 - Connector -1- must be seated securely on metal ring -2-.
 - Contact tab -3- must be attached to fuel tank -5- and secured with spacer bush -4-.



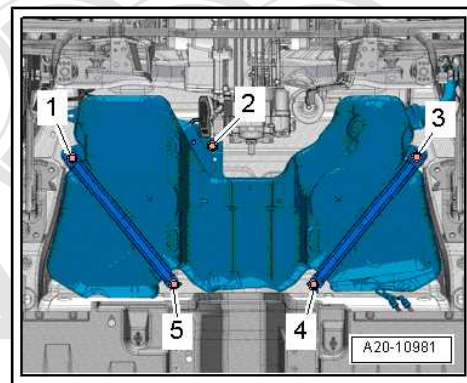
WARNING

Risk of explosion caused by electrostatic discharge.

- ◆ *After installation, use an ohmmeter to check the electrical connection between the metal ring on the fuel filler neck and a bare metal part on the body:*
 - *Specification: approx. 0 Ω*

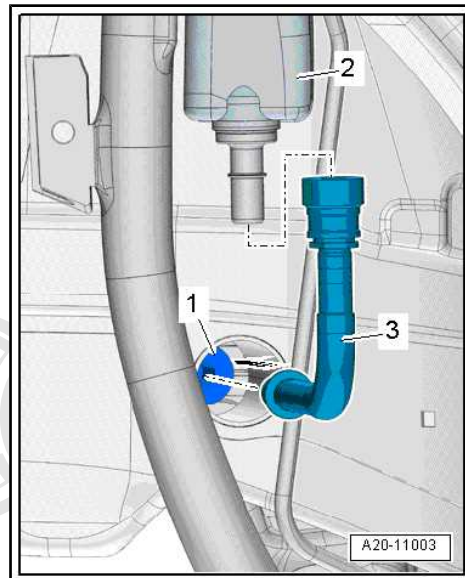


- Check that fuel line and breather line are clipped onto fuel tank.
- Position fuel tank with securing straps on underside of vehicle using engine and gearbox jack .
- When installing fuel tank, make sure that fuel filler neck is correctly inserted into opening on body.
- Tighten bolts -1 ... 5-.



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- Guide breather line -3- for fuel filler neck through body and attach it with new seals to pipe connector -1- on fuel tank -arrow-, making sure it engages audibly.
- Connect breather line to fuel filler neck -2- so it engages audibly.
- Press breather line in again and then pull to check that plug-in connector is correctly engaged.
- Remove underbody trim panels (rear, both sides) ⇒ General body repairs, exterior; Rep. gr. 66 ; Underbody trim; Exploded view - underbody trim .
- Install propshaft ⇒ Rep. gr. 39 ; Propshaft; Removing and installing propshaft .
- Install rear section of exhaust system ⇒ Rep. gr. 26 ; Exhaust pipes/silencer; Exploded view - silencer .
- Install rear right wheel housing liner ⇒ General body repairs, exterior; Rep. gr. 66 ; Wheel housing liners; Exploded view - wheel housing liner (rear) .
- Install rear seat bench ⇒ General body repairs, interior; Rep. gr. 72 ; Rear seats; Removing and installing seat bench/individual seats .
- Connect battery and perform steps required after re-connecting battery ⇒ Electrical system; Rep. gr. 27 ; Battery; Disconnecting and connecting battery .
- After installing a new or completely drained fuel tank, the tank must be filled with at least 5 litres of fuel before starting the engine.



Note

The fuel pump must not be allowed to run in an empty fuel tank.

Tightening torques

- ◆ ⇒ ["1.1 Exploded view - fuel tank", page 6](#)

2 Fuel delivery unit/fuel gauge senders

⇒ "2.1 Exploded view - fuel delivery unit/fuel gauge senders", page 23

⇒ "2.2 Removing and installing fuel delivery unit/fuel gauge sender", page 27

⇒ "2.3 Checking fuel gauge sender G ", page 35

⇒ "2.4 Removing and installing fuel gauge sender G ", page 38

⇒ "2.5 Checking fuel gauge sender 2 G169 ", page 39

⇒ "2.6 Removing and installing fuel gauge sender 2 G169 ", page 43

2.1 Exploded view - fuel delivery unit/fuel gauge senders

⇒ "2.1.1 Exploded view - fuel delivery unit/fuel gauge senders, all vehicles except versions for China", page 23

⇒ "2.1.2 Exploded view - fuel delivery unit/fuel gauge senders, version for China", page 26

2.1.1 Exploded view - fuel delivery unit/fuel gauge senders, all vehicles except versions for China

1 - Supply line

- ☐ Do not kink
- ☐ Clipped onto fuel delivery unit
- ☐ Press catch to detach

2 - Supply line for suction-jet pump

- ☐ Do not kink
- ☐ Disconnecting and connecting plug-in connectors ⇒ [page 47](#)

3 - Fuel supply line

- ☐ To engine
- ☐ Do not kink
- ☐ Disconnecting and connecting plug-in connectors ⇒ [page 47](#)

4 - Fuel gauge sender - G-

- ☐ Checking resistance values ⇒ [page 35](#)
- ☐ Removing and installing ⇒ [page 38](#)

5 - Fuel delivery unit

- ☐ With fuel system pressurisation pump - G6-
- ☐ Checking fuel pump (electrical test) in [Guided Fault Finding](#) ⇒ Vehicle diagnostic tester
- ☐ Removing and installing ⇒ [page 27](#)
- ☐ Put at least 5 litres of fuel into tank after installing

6 - Seal

- ☐ Renew
- ☐ Install dry

7 - Locking ring

- ☐ Loosen and tighten with wrench - T10202-
- ☐ 110 Nm

8 - Electrical connector

- ☐ For fuel system pressurisation pump - G6- and fuel gauge sender - G-

9 - Fuel line

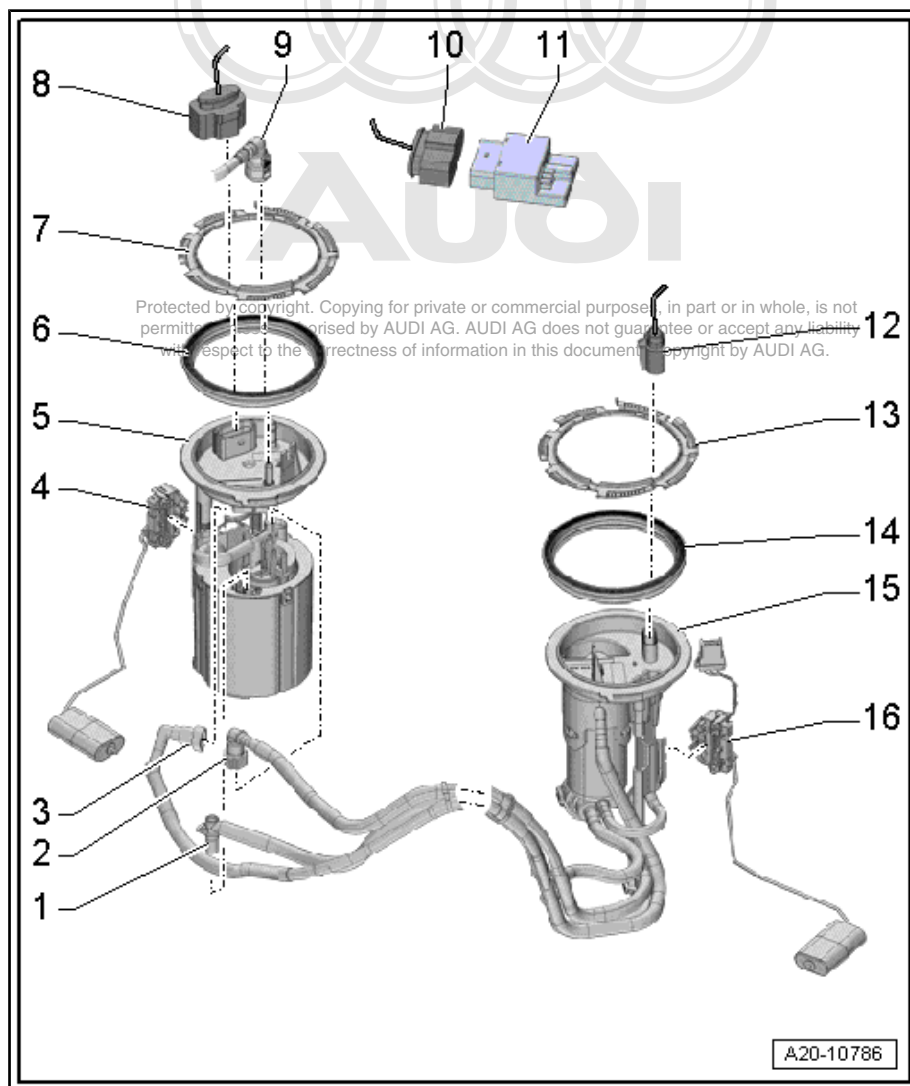
- ☐ To engine
- ☐ Do not kink
- ☐ Disconnecting and connecting plug-in connectors ⇒ [page 47](#)
- ☐ Clipped onto fuel tank

10 - Electrical connector

- ☐ For fuel pump control unit - J538-

11 - Fuel pump control unit - J538-

- ☐ Checking in [Guided Fault Finding](#) ⇒ Vehicle diagnostic tester
- ☐ Removing and installing ⇒ [page 76](#)



12 - Electrical connector

- ☐ For fuel gauge sender 2 - G169-

13 - Locking ring

- ☐ Loosen and tighten with wrench - T10202-
- ☐ 110 Nm

14 - Seal

- ☐ Renew
- ☐ Install dry

15 - Flange

- ☐ Includes following components:

◆ Fuel pressure regulator

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◆ Suction-jet pump

◆ Fuel filter

- ☐ Components cannot be renewed separately
- ☐ Removing and installing ⇒ [page 53](#)

16 - Fuel gauge sender 2 - G169-

- ☐ Checking resistance values ⇒ [page 39](#)
- ☐ Removing and installing ⇒ [page 43](#)



2.1.2 Exploded view - fuel delivery unit/fuel gauge senders, version for China

1 - Suction-jet pump

- ☐ Not available separately; only supplied together with -item 11- ➔ Electronic parts catalogue
- ☐ Suction-jet pump: operation ➔ [page 75](#)

2 - Fuel delivery unit

- ☐ With fuel system pressurisation pump - G6-
- ☐ Checking fuel pump (electrical test) in Guided Fault Finding ➔ Vehicle diagnostic tester
- ☐ Removing and installing ➔ [page 31](#)
- ☐ Put at least 5 litres of fuel into tank after installing

3 - Fuel gauge sender - G-

- ☐ Checking resistance values ➔ [page 35](#)
- ☐ Removing and installing ➔ [page 39](#)

4 - Seal

- ☐ Renew
- ☐ Install dry

5 - Locking ring

- ☐ Loosen and tighten with wrench - T10202-
- ☐ 110 Nm

6 - Fuel supply line

- ☐ To fuel filter
- ☐ Do not kink
- ☐ Clipped onto fuel tank
- ☐ Disconnecting and connecting plug-in connectors ➔ [page 47](#)
- ☐ Note direction of arrow (fuel supply or fuel return system) on flange when installing

7 - Fuel return line

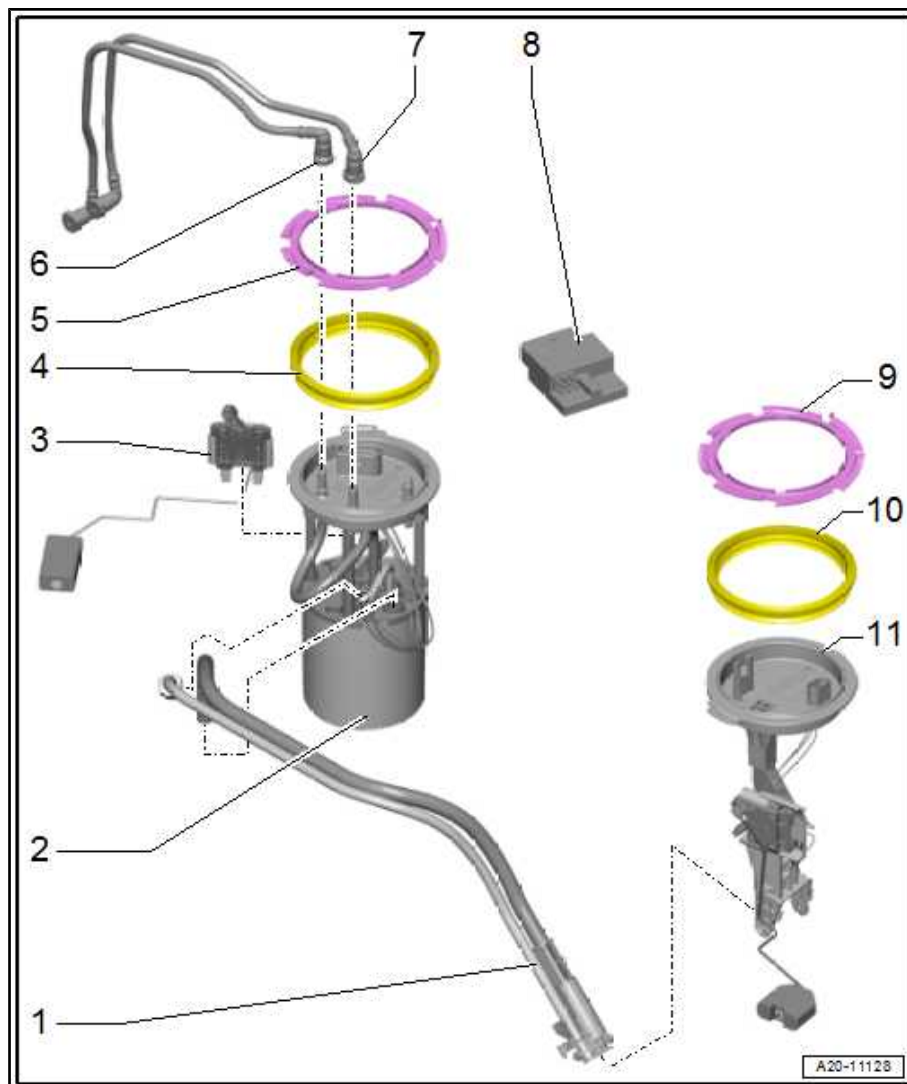
- ☐ From fuel filter
- ☐ Do not kink
- ☐ Clipped onto fuel tank
- ☐ Disconnecting and connecting plug-in connectors ➔ [page 47](#)
- ☐ Note direction of arrow (fuel supply or fuel return system) on flange when installing

8 - Fuel pump control unit - J538-

- ☐ Checking in Guided Fault Finding ➔ Vehicle diagnostic tester
- ☐ Removing and installing ➔ [page 76](#)

9 - Locking ring

- ☐ Loosen and tighten with wrench - T10202-



- ❑ 110 Nm

10 - Seal

- ❑ Renew
- ❑ Install dry

11 - Flange with fuel gauge sender 2 - G169-

- ❑ Checking resistance values ➔ [page 39](#)
- ❑ Removing and installing ➔ [page 43](#)

2.2 Removing and installing fuel delivery unit/fuel gauge sender

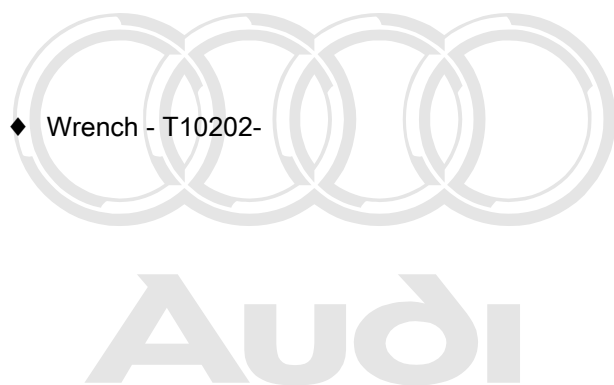
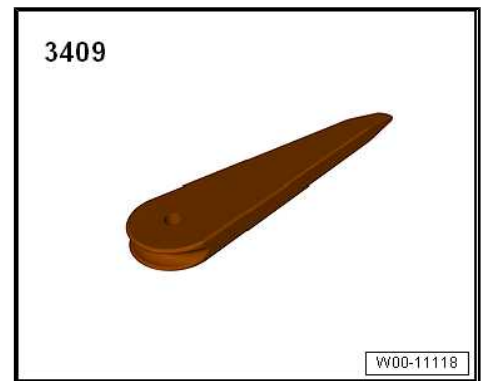
➔ [“2.2.1 Removing and installing fuel delivery unit/fuel gauge senders, all vehicles except versions for China”, page 27](#)

➔ [“2.2.2 Removing and installing fuel delivery unit/fuel gauge senders, version for China”, page 31](#)

2.2.1 Removing and installing fuel delivery unit/fuel gauge senders, all vehicles except versions for China

Special tools and workshop equipment required

- ◆ Removal wedge - 3409-



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Removing

- Observe safety precautions ➔ [page 1](#) .
- Observe rules for cleanliness ➔ [page 4](#) .



WARNING

Danger! Fuel may escape.

- ◆ ***The fuel tank must not be more than $\frac{1}{3}$ full when removing the fuel delivery unit, otherwise a large amount of fuel will escape.***

- Drain fuel tank if necessary ➤ [page 10](#) .
- Move front seats all the way forwards.

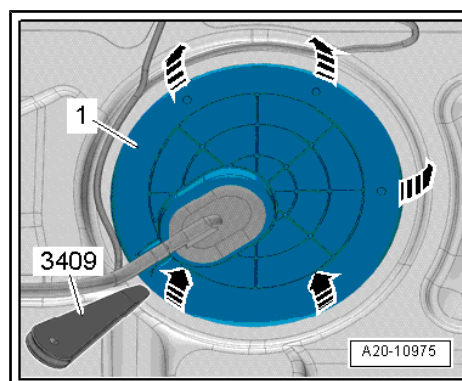


Caution

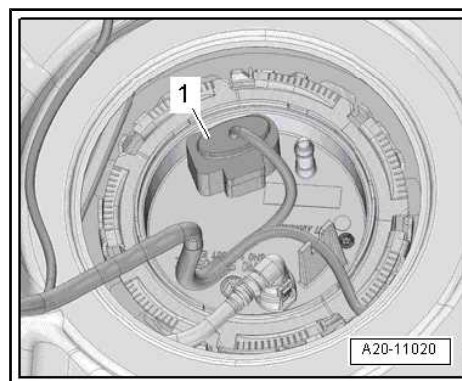
To prevent irreparable damage to the electronic components when disconnecting the battery:

- ◆ ***Observe notes on procedure for disconnecting the battery.***

- Disconnect earth wire from battery terminal ➤ Electrical system; Rep. gr. 27 ; Battery; Disconnecting and connecting battery .
- Remove rear seat bench ➤ General body repairs, interior, Rep. gr. 72 ; Rear seats; Removing and installing seat bench/individual seats .
- Unclip cover -1- for flange (right-side) at retainers -arrows- using removal wedge - 3409- .



- Release retainer catch and unplug electrical connector -1- on flange (right-side).



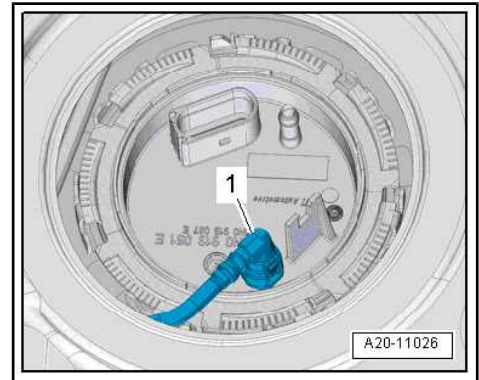


WARNING

Risk of injury - fuel system operates under high pressure.

- ◆ *To reduce the pressure in the fuel system, wrap a clean cloth around the connection and carefully loosen the connection.*

- Disconnect fuel line -1- from flange. Disconnecting plug-in connectors ➔ [page 47](#)

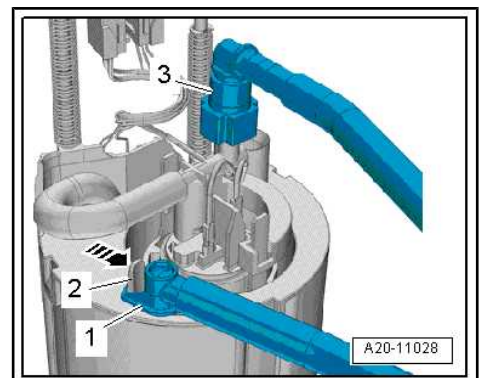
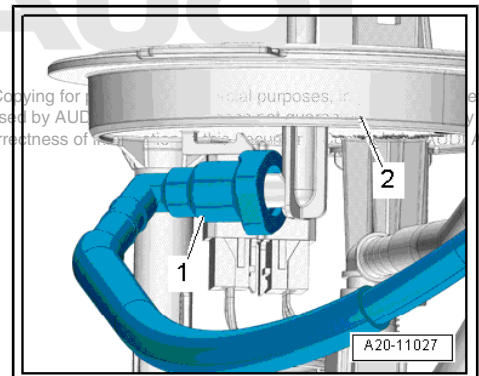
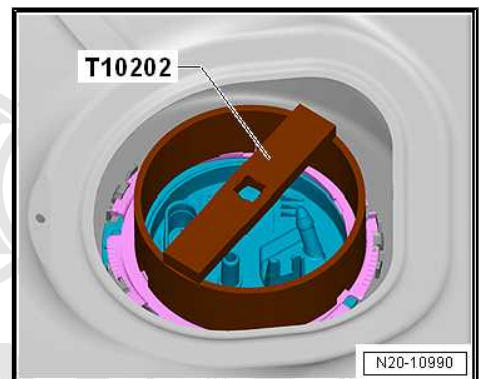


WARNING

Danger! Fuel may escape.

- ◆ *The fuel tank must not be more than 1/3 full when removing the fuel delivery unit, otherwise a large amount of fuel will escape.*

- Remove locking ring using wrench - T10202- .
- Pull flange -2- slightly out of opening in fuel tank.
- Detach seal from opening in fuel tank.
- Disconnect fuel line -1- from flange. Disconnecting plug-in connectors ➔ [page 47](#)
- Reach into opening in fuel tank and disconnect supply line -3- for suction-jet pump. Disconnecting plug-in connectors ➔ [page 47](#)
- Reach into opening in fuel tank and disconnect supply line -1- by pressing release tab -2- -arrow-.





WARNING

Safety risk from escaping fuel: the fuel delivery unit is still filled.

- ◆ **Use a cloth to catch escaping fuel.**

- Carefully pull fuel delivery unit -1- with fuel gauge sender -2- out through opening in fuel tank by turning and tilting it as required.



Note

When removing the fuel delivery unit, make sure you do not bend the float arm of the fuel gauge sender.

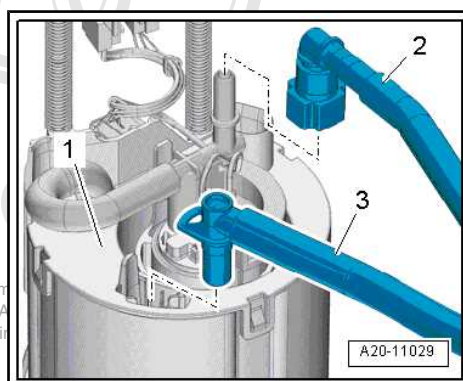
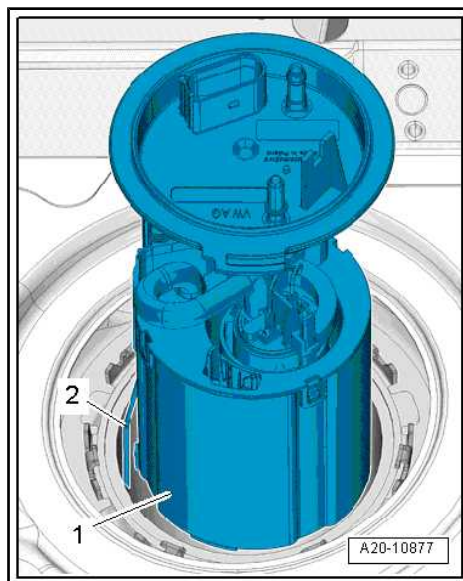
Installing

Installation is carried out in the reverse order; note the following:

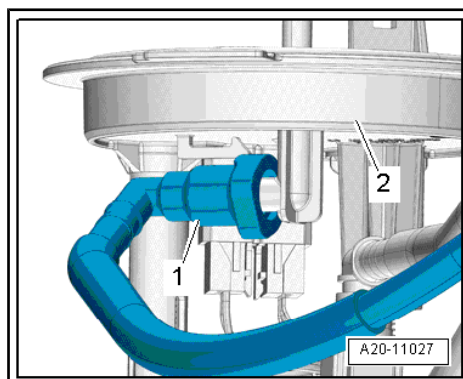


Note

- ◆ *Renew seal.*
- ◆ *Make sure that fuel hoses are securely fitted.*
- ◆ *When plugging in electrical connectors, make sure they engage correctly.*
- ◆ *When inserting the fuel delivery unit, make sure you do not bend the float arm of the fuel gauge sender.*
- Carefully guide fuel delivery unit -1- with fuel gauge sender in through opening in fuel tank.
- Reach through opening in fuel tank and clip supply line -3- onto fuel delivery unit -1- so it engages audibly.
- Connect supply line for suction-jet pump -2- so it engages audibly.



- Attach fuel line -1- to flange -2- so it engages audibly.
- Press supply line for suction-jet pump and fuel line in again and then pull to check that plug-in connectors are correctly engaged.



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- Install new seal -1- for flange (seal must be installed dry).

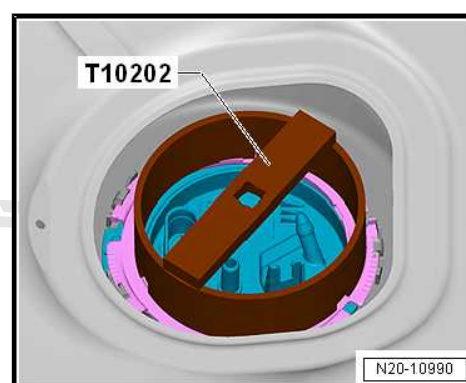
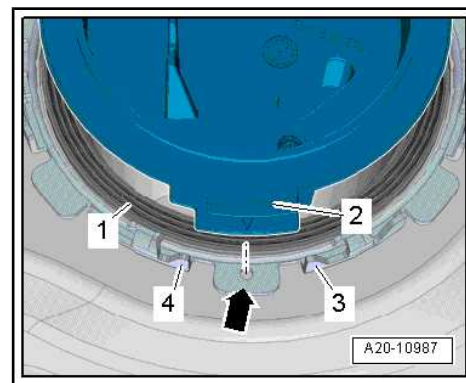


Caution

Leakage risk

- ◆ *The seal must not be pinched or damaged when installing the flange.*

- With fuel delivery unit raised, fit flange in correct installation position.
- Lug -2- on flange must point towards hole -arrow- on locking ring and must be between tabs -3 and 4- on fuel tank.
- Press flange down against spring pressure.
- Fit locking ring and secure using wrench - T10202- .
- Connect fuel line, making sure it engages audibly.
- Press fuel line in again and then pull to check that plug-in connector is correctly engaged.
- Install rear seat bench ⇒ General body repairs, interior; Rep. gr. 72 ; Rear seats; Removing and installing seat bench/individual seats .
- Connect battery and perform steps required after re-connecting battery ⇒ Electrical system; Rep. gr. 27 ; Battery; Disconnecting and connecting battery .
- After installing the fuel delivery unit, the fuel tank must be filled with at least 5 litres of fuel before starting the engine.



Note

The fuel pump must not be allowed to run in an empty fuel tank.

Tightening torques

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- ◆ ⇒ "2.1.1 Exploded view - fuel delivery unit/fuel gauge senders, all vehicles except versions for China", page 23

2.2.2 Removing and installing fuel delivery unit/fuel gauge senders, version for China

Special tools and workshop equipment required

- ◆ Removal wedge - 3409-



◆ Wrench - T10202-



Removing

- Observe safety precautions ➔ [page 1](#) .
- Observe rules for cleanliness ➔ [page 4](#) .



WARNING

Danger! Fuel may escape.

- ◆ ***The fuel tank must not be more than 1/3 full when removing the fuel delivery unit, otherwise a large amount of fuel will escape.***

- Drain fuel tank if necessary ➔ [page 10](#) .
- Move front seats all the way forwards.

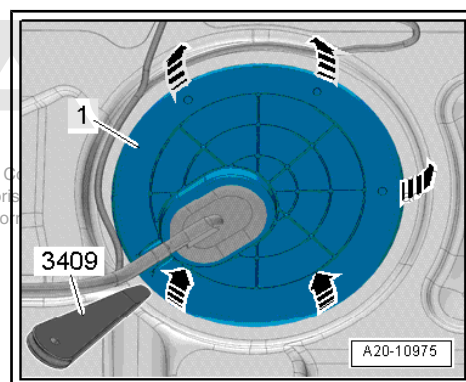


Caution

To prevent irreparable damage to the electronic components when disconnecting the battery:

- ◆ ***Observe notes on procedure for disconnecting the battery.***

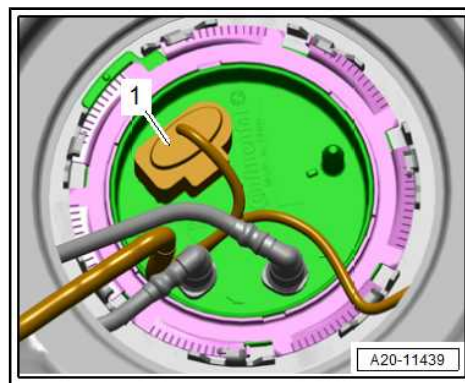
- Disconnect earth wire from battery terminal ➔ Electrical system; Rep. gr. 27 ; Battery; Disconnecting and connecting battery .
- Remove rear seat bench ➔ General body repairs, interior; Rep. gr. 72 ; Rear seats; Removing and installing seat bench/individual seats .
- Unclip cover -1- for flange (right-side) at retainers -arrows- using removal wedge - 3409- .



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- Release retainer catch and unplug electrical connector -1- on flange.

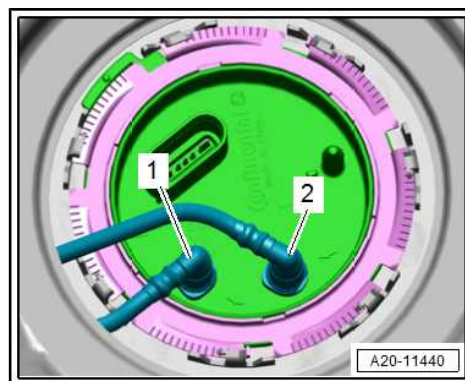


WARNING

Risk of injury - fuel system operates under high pressure.

- ◆ *To reduce the pressure in the fuel system, wrap a clean cloth around the connection and carefully loosen the connection.*

- Disconnect fuel lines -1 and 2- on flange. Disconnecting plug-in connectors ➔ [page 47](#)

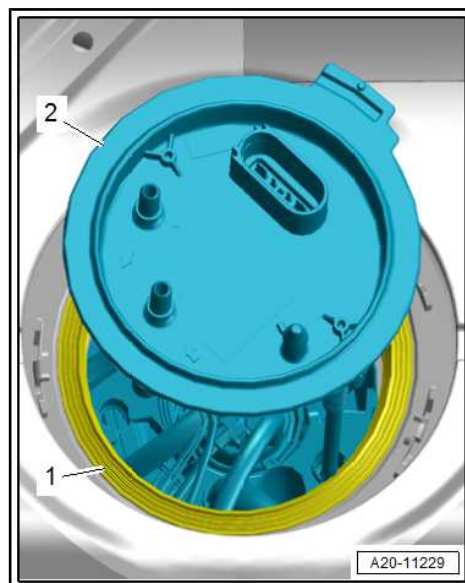
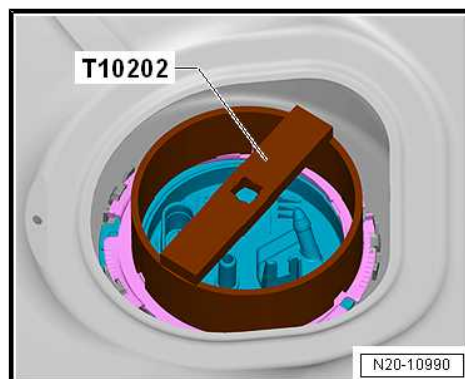


WARNING

Danger! Fuel may escape.

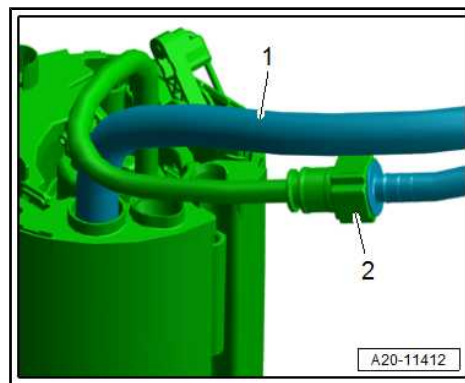
- ◆ *The fuel tank must not be more than 1/3 full when removing the fuel delivery unit, otherwise a large amount of fuel will escape.*

- Remove locking ring using wrench - T10202- .
- Pull flange -2- out of opening in fuel tank.
- Remove seal -1- from opening in fuel tank.



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- Reach into opening in fuel tank and detach fuel supply line -1- from fuel delivery unit.
- Reach into opening in fuel tank and disconnect supply line -2- for suction-jet pump. Disconnecting plug-in connectors
⇒ [page 47](#)



WARNING

Safety risk from escaping fuel: the fuel delivery unit is still filled.

- ◆ **Use a cloth to catch escaping fuel.**

- Carefully pull fuel delivery unit -1- with fuel gauge sender out through opening in fuel tank by turning and tilting it as required.



Note

When removing the fuel delivery unit, make sure you do not bend the float arm of the fuel gauge sender.

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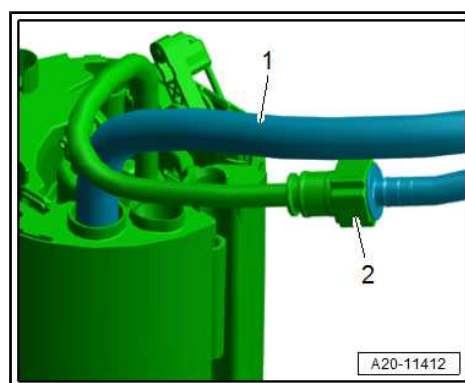
Installing

Installation is carried out in the reverse order; note the following:

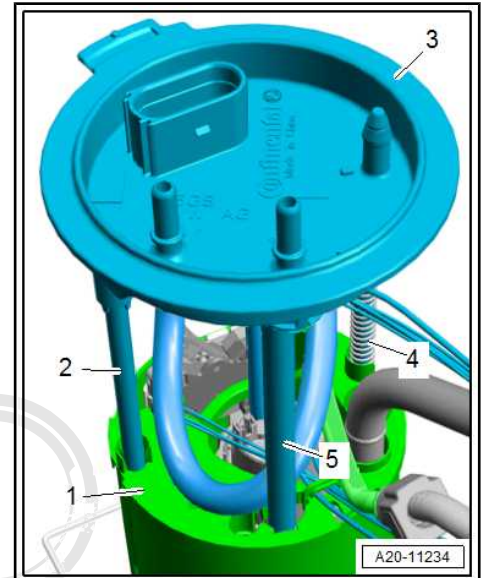


Note

- ◆ **Renew seal.**
- ◆ **Make sure that fuel hoses are securely fitted.**
- ◆ **When plugging in electrical connectors, make sure they engage correctly.**
- ◆ **When inserting the fuel delivery unit, make sure you do not bend the float arm of the fuel gauge sender.**
- Carefully guide fuel delivery unit with fuel gauge sender in through opening in fuel tank.
- Connect fuel supply line -1- by fitting onto fuel delivery unit as far as stop.
- Connect supply line for suction-jet pump -2- so it engages audibly.



- Route fuel hoses and electrical wiring as shown in illustration.
- Position flange -3- with guide tubes -2- and -4- and fuel return pipe -5- on fuel delivery unit -1-.
- Insert guide tubes and fuel return pipe into guides as shown in illustration.

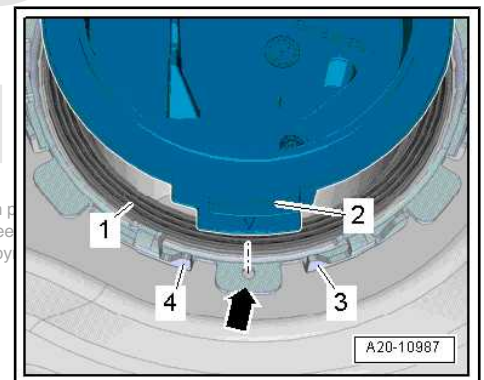


- Install new seal -1- for flange (seal must be installed dry).

 **Caution**

Leakage risk

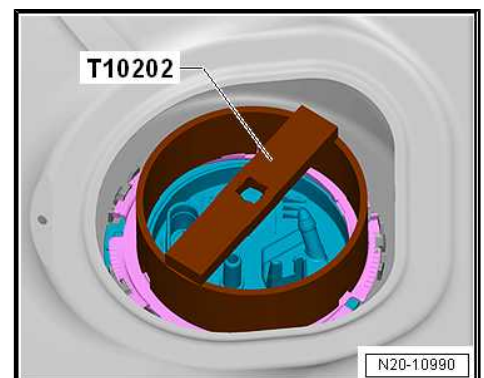
◆ **The seal must not be pinched or damaged when installing the flange.**



- Fit flange in correct installation position.
- Lug -2- on flange must point towards hole -arrow- on locking ring and must be between tabs -3 and 4- on fuel tank.
- Press flange down against spring pressure.
- Fit locking ring and secure using wrench - T10202- .
- Connect fuel lines so they engage audibly.
- Press fuel line in again and then pull to check that plug-in connector is correctly engaged.
- Connect battery and perform steps required after re-connecting battery ⇒ Electrical system; Rep. gr. 27 ; Battery; Disconnecting and connecting battery .
- Put at least 5 litres of fuel into tank after installing fuel delivery unit.

Tightening torques

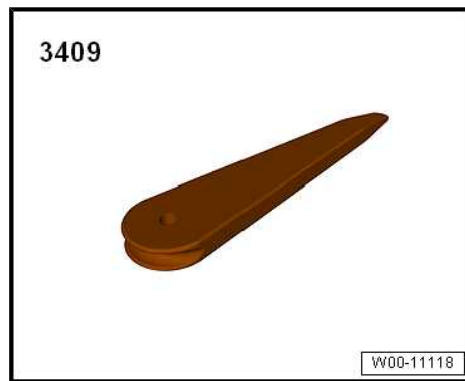
- ◆ ⇒ [“2.1.2 Exploded view - fuel delivery unit/fuel gauge senders, version for China”, page 26](#)



2.3 Checking fuel gauge sender - G-

Special tools and workshop equipment required

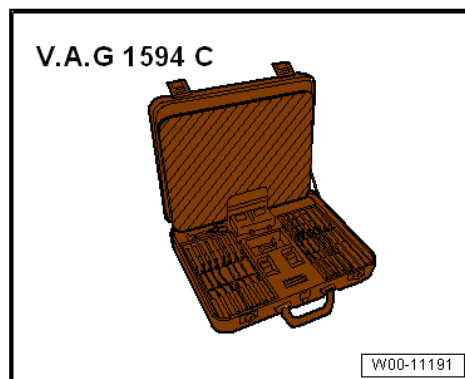
◆ Removal wedge - 3409-



◆ Hand-held multimeter - V.A.G 1526 E-



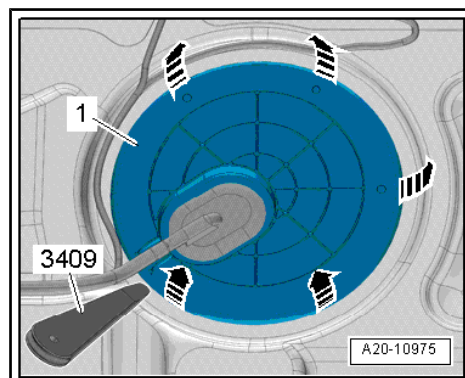
◆ Auxiliary measuring set - V.A.G 1594D-



Procedure

- Move front seats all the way forwards.
- Switch off ignition.
- Remove rear seat bench ⇒ General body repairs, interior; Rep. gr. 72 ; Rear seats; Removing and installing seat bench/ individual seats .
- Unclip cover -1- for flange (right-side) at retainers -arrows- using removal wedge - 3409- .

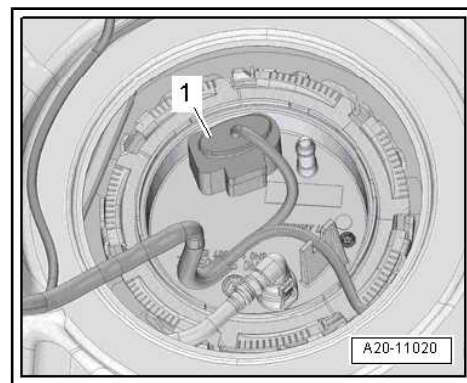
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- Release retainer catch and unplug electrical connector -1- on flange (right-side).

i Note

The illustration shows the installation position for rest-of-world/ NAR vehicles; other versions are similar.



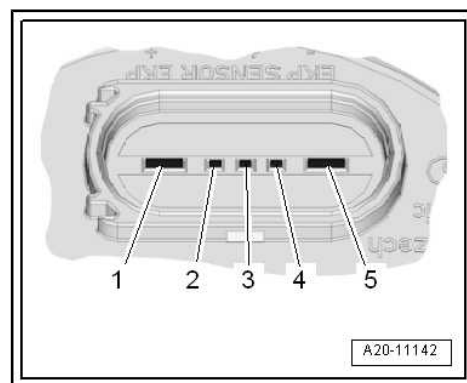
Fuel gauge sender - G- installed:

i Note

To obtain an exact measurement of the resistance value for the specification "Tank full", the fuel tank must be completely full. For this, drive for at least 500 metres after filling the tank to let air bubbles escape from the fuel tank; then add fuel again.

- Connect multimeter (resistance test) as shown in table.

Measure at contacts	Tank empty	Tank full
2 + 3	approx. 270 Ω	approx. 77.5 Ω
2 + 4	approx. 70 Ω	approx. 262.5 Ω
3 + 4 ¹⁾	approx. 340 Ω	approx. 340 Ω
¹⁾ Sender in any position		



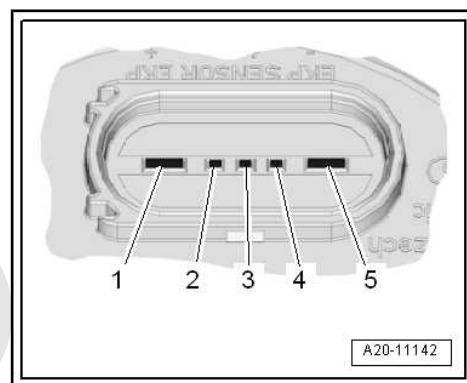
Fuel gauge sender - G- removed:

i Note

- ◆ *To test the maximum and minimum resistance values for "tank full" and "tank empty", remove the fuel delivery unit and move the sender float all the way to its top or bottom position.*
- ◆ *The following values are obtained with the fuel gauge sender removed, due to the greater travel of the float arm:*

- Connect multimeter (resistance test) as shown in table.

Measure at contacts	Tank empty	Tank full
2 + 3	approx. 290.3 Ω	approx. 77.5 Ω
2 + 4	approx. 49.7 Ω	approx. 262.5 Ω
3 + 4 ¹⁾	approx. 340 Ω	approx. 340 Ω
¹⁾ Sender in any position		



Fuel gauge sender - G- is defective in the following cases:

- ◆ Large differences in test readings
- ◆ Reading: 0 Ω (short circuit)
- ◆ Reading: ∞ Ω (open circuit)
- ◆ No fault in electrical wiring
- Install fuel delivery unit/fuel gauge sender ➔ [page 27](#) .

2.4 Removing and installing fuel gauge sender - G-

⇒ ["2.4.1 Removing and installing fuel gauge sender G , all vehicles except versions for China", page 38](#)

⇒ ["2.4.2 Removing and installing fuel gauge sender G , version for China", page 39](#)

2.4.1 Removing and installing fuel gauge sender - G- , all vehicles except versions for China

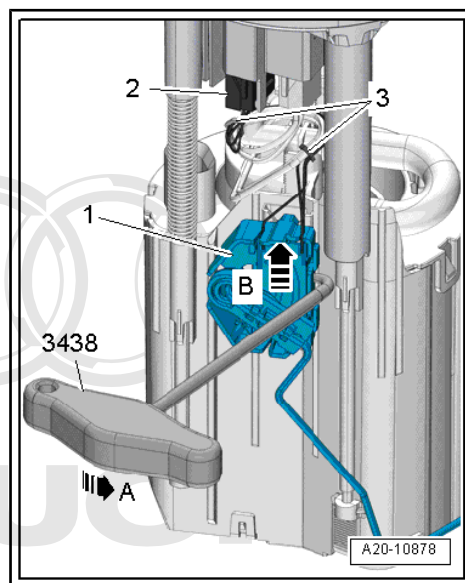
Special tools and workshop equipment required

- ◆ Hook - 3438-



Removing

- Observe safety precautions ⇒ [page 1](#) .
- Observe rules for cleanliness ⇒ [page 4](#) .
- Remove fuel delivery unit ⇒ [page 27](#) .
- Release retainer catch and unplug electrical connector -2- on flange.
- Cut through cable tie -3- and move clear electrical wiring.
- Apply hook - 3438- in recess at side and release retaining tab -arrow A-.
- At the same time press out fuel gauge sender - G- -item 1- upwards -arrow B-.



Installing

Installation is carried out in the reverse order; note the following:



Note

When plugging in electrical connectors, make sure they engage correctly.

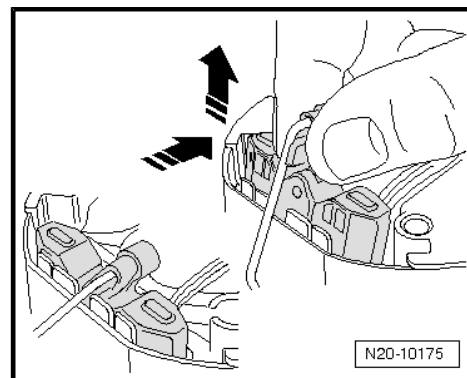
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- Insert fuel gauge sender - G- into guides on fuel delivery unit and press downwards until it clicks into place.
- Install fuel delivery unit ⇒ [page 27](#) .
- Connect battery and perform steps required after re-connecting battery ⇒ Electrical system; Rep. gr. 27 ; Battery; Disconnecting and connecting battery .

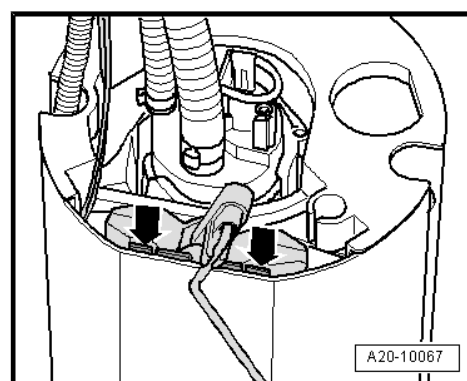
2.4.2 Removing and installing fuel gauge sender - G- , version for China

Removing

- Observe safety precautions ➔ [page 1](#) .
- Observe rules for cleanliness ➔ [page 4](#) .
- Remove fuel delivery unit ➔ [page 31](#) .
- Pull fuel gauge sender - G- inwards slightly and then lift out -arrows-.



- If necessary, release retaining tabs -arrows- using a screw-driver.



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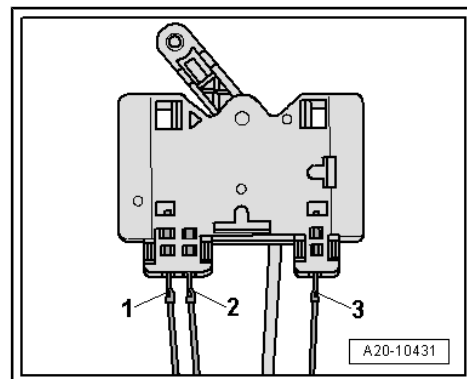


Caution

Risk of damage.

- ◆ *First release retainer tabs on connector contact before detaching electrical connectors on fuel gauge sender - G-.*

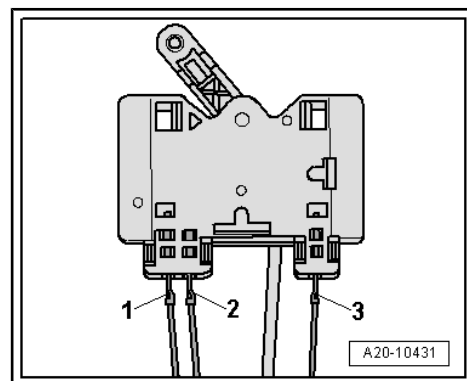
- Release and unplug electrical connectors -1...3-.



Installing

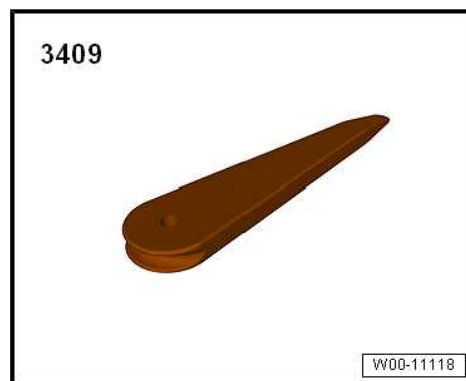
Installation is carried out in the reverse order; note the following:

- Plug in electrical connectors -1 ... 3- and make sure they are securely engaged.
- Insert fuel gauge sender - G- into guides on fuel delivery unit and press downwards until it clicks into place.
- Install fuel delivery unit ➔ [page 31](#) .



2.5 Checking fuel gauge sender 2 - G169- Special tools and workshop equipment required

◆ Removal wedge - 3409-



◆ Hand-held multimeter - V.A.G 1526 E-

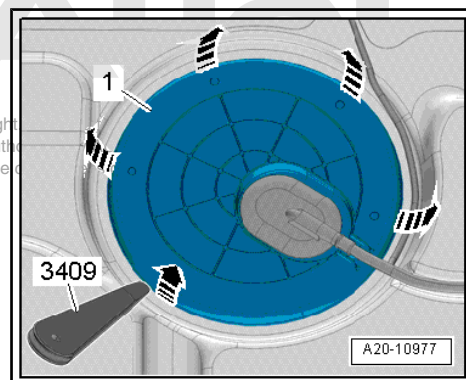


◆ Auxiliary measuring set - V.A.G 1594D-



Procedure

- Move front seats all the way forwards.
- Switch off ignition.
- Remove rear seat bench ⇒ General body repairs, interior; Rep. gr. 72 ; Rear seats; Removing and installing seat bench/ individual seats .
- Unclip cover -1- for flange (left-side) at retainers -arrows- using removal wedge - 3409- .



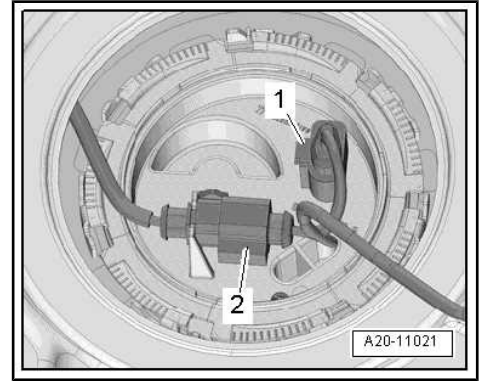
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whole, is not
 any liability
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- Release retainer catch and unplug electrical connector -1- on flange (left-side).

i Note

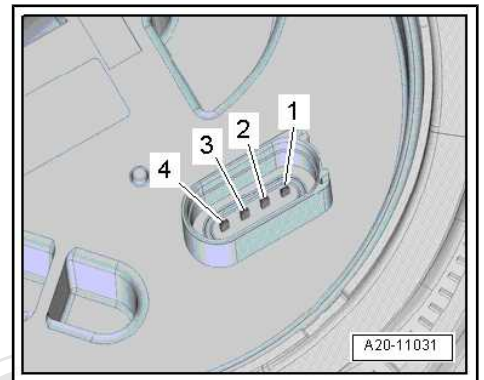
Disregard -item 2-.



With fuel gauge sender 2 - G169- installed:

i Note

- ◆ To obtain an exact measurement of the resistance value for the specification "Tank full", the fuel tank must be completely full. For this, drive for at least 500 metres after filling the tank to let air bubbles escape from the fuel tank; then add fuel again.
- ◆ Fuel gauge sender 2 - G169- fitted on version for China has only three connector contacts.



- Connect multimeter (resistance test) as shown in table.

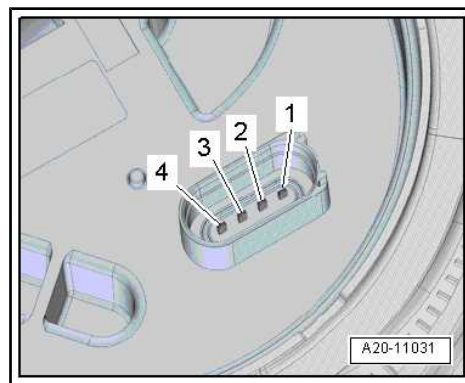
Measure at contacts	Tank empty	Tank full
1 + 2	approx. 270 Ω	approx. 62.5 Ω
1 + 3	approx. 70 Ω	approx. 277.5 Ω
2 + 3 ¹⁾	approx. 340 Ω	approx. 340 Ω
¹⁾ Sender in any position		

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With fuel gauge sender 2 - G169- removed:

 Note

- ◆ To test the maximum and minimum resistance values for “tank full” and “tank empty”, remove the fuel delivery unit and move the sender float all the way to its top or bottom position.
- ◆ The following values are obtained with the fuel gauge sender removed, due to the greater travel of the float arm:
- ◆ Fuel gauge sender 2 - G169- fitted on version for China has only three connector contacts.



– Connect multimeter (resistance test) as shown in table.

Measure at contacts	Tank empty	Tank full
1 + 2	max. 270 Ω	at least 39 Ω
1 + 3	at least 70 Ω	max. 301 Ω
2 + 3 ¹⁾	approx. 340 Ω	approx. 340 Ω
¹⁾ Sender in any position		

Fuel gauge sender 2 - G169- is defective in the following cases:

- ◆ Large differences in test readings
 - ◆ Reading: 0 Ω (short circuit)
 - ◆ Reading ∞ Ω (open circuit)
 - ◆ No fault in electrical wiring
- Install fuel gauge sender 2 - G169- ➔ [page 43](#) .



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2.6 Removing and installing fuel gauge sender 2 - G169-

⇒ **"2.6.1 Removing and installing fuel gauge sender 2 G169 , all vehicles except versions for China", page 43**

⇒ **"2.6.2 Removing and installing fuel gauge sender 2 G169 , version for China", page 43**

2.6.1 Removing and installing fuel gauge sender 2 - G169- , all vehicles except versions for China

Removing

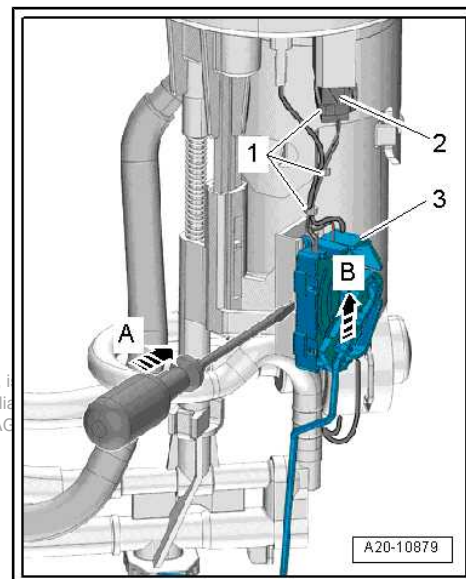
- Observe safety precautions ⇒ [page 1](#) .
- Observe rules for cleanliness ⇒ [page 4](#) .
- Remove flange ⇒ [page 53](#) .
- Cut through cable tie -1- and move clear electrical wiring.
- Release retainer catch and unplug electrical connector -2- on flange.
- Apply screwdriver in recess at side and release retaining tab -arrow A-.
- **At the same time press out fuel gauge sender 2 - G169- -item 3- upwards -arrow B-**

Installing

- Insert fuel gauge sender 2 - G169- into guides in flange and press down until it clicks into place.

Remaining installation steps are carried out in reverse sequence; note the following:

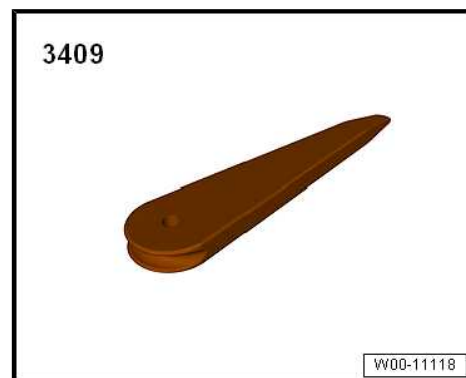
- Install flange ⇒ [page 53](#) .



2.6.2 Removing and installing fuel gauge sender 2 - G169- , version for China

Special tools and workshop equipment required

- ◆ Removal wedge - 3409-



◆ Wrench - T10202-



Removing

- Observe safety precautions ➤ [page 1](#) .
- Observe rules for cleanliness ➤ [page 4](#) .
- Move front seats all the way forwards.
- Switch off ignition.
- Remove rear seat bench ➤ General body repairs, interior;
Rep. gr. 72 ; Rear seats; Removing and installing seat bench/
individual seats .

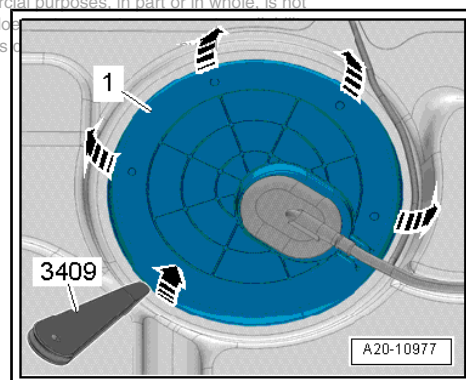


WARNING

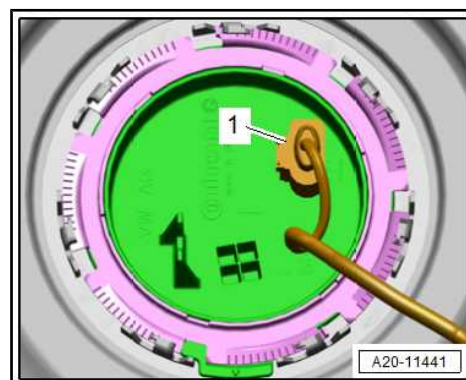
Danger! Fuel may escape.

- ◆ ***The fuel tank must not be more than 1/3 full when removing the fuel gauge sender; otherwise a large amount of fuel will escape.***

- Drain fuel tank if necessary ➤ [page 10](#) .
- Unclip cover -1- for flange (left-side) at retainers -arrows- using
removal wedge - 3409- .



- Release retainer catch and unplug electrical connector -1- on
flange (left-side).





WARNING

Danger! Fuel may escape.

- ◆ *The fuel tank must not be more than 1/3 full when removing the fuel gauge sender; otherwise a large amount of fuel will escape.*

- Remove locking ring using wrench - T10202- .
- Carefully pull flange slightly out of opening in fuel tank.
- Remove seal -2- from opening in fuel tank.
- Unclip fuel gauge sender 2 - G169- -item 3- from suction-jet pump -1- and carefully take it out of opening in fuel tank.



Note

When removing, make sure you do not bend float arm of fuel gauge sender.

Installing

Installation is carried out in the reverse order; note the following:



Note

- ◆ *Renew seal.*
- ◆ *Make sure that fuel hoses are securely fitted.*
- ◆ *When plugging in electrical connectors, make sure they engage correctly.*
- ◆ *When inserting, make sure you do not bend float arm of fuel gauge sender.*

- Carefully insert fuel gauge sender 2 - G169- in fuel tank and clip onto suction-jet pump.
- Install new seal -1- for flange (seal must be installed dry).

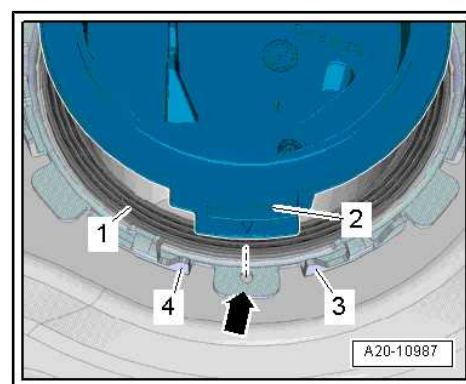
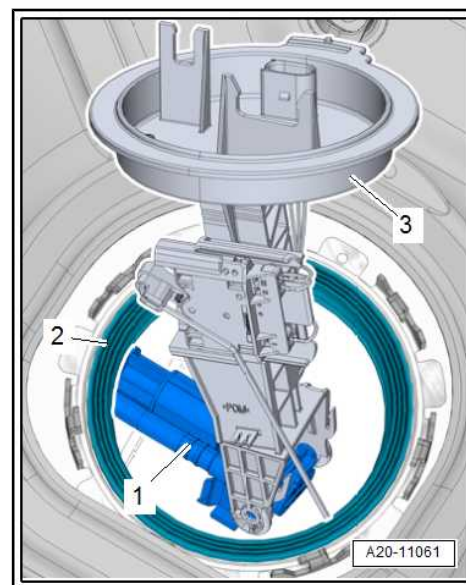
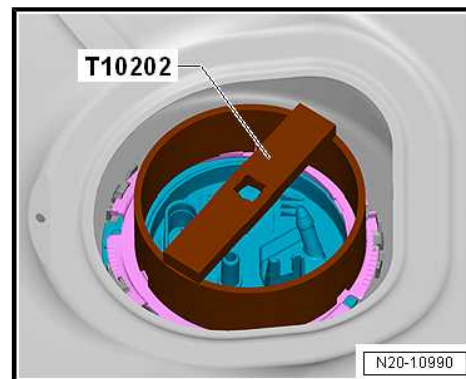


Caution

Leakage risk

- ◆ *The seal must not be pinched or damaged when installing the flange.*

- Fit flange in correct installation position.
- Lug -2- on flange must point towards hole -arrow- on locking ring and must be between tabs -3 and 4- on fuel tank.

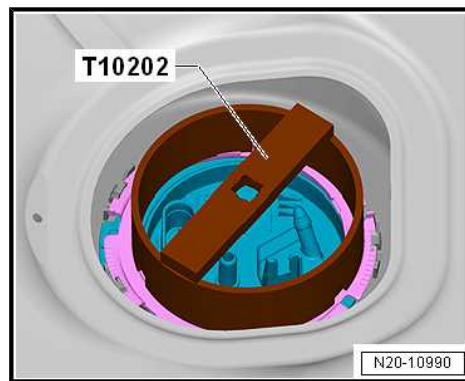




- Fit locking ring and secure using wrench - T10202- .
- Remove rear seat bench ⇒ General body repairs, interior;
Rep. gr. 72 ; Rear seats; Removing and installing seat bench/
individual seats .

Tightening torques

- ♦ ⇒ [“2.1.2 Exploded view - fuel delivery unit/fuel gauge senders, version for China”, page 26](#)



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3 Plug-in connectors

⇒ [“3.1 Disconnecting plug-in connectors”, page 47](#)

3.1 Disconnecting plug-in connectors

Special tools and workshop equipment required

- ◆ Lever - T10468-



- ◆ Safety goggles
- ◆ Protective gloves (fuel-resistant)

Allocation of plug-in connectors



Note

The plug-in connectors for the fuel lines, vacuum lines, and breather lines are colour coded. There is either a coloured marking on the plug-in connector, or the release tab is the corresponding colour ⇒ [page 47](#) .

Colour coding

Plug-in connector	Colour coding on plug-in connector
Fuel supply	Black
Fuel return line	Blue
Breather	White-beige
Vacuum	Green



WARNING

Fuel line is pressurised.

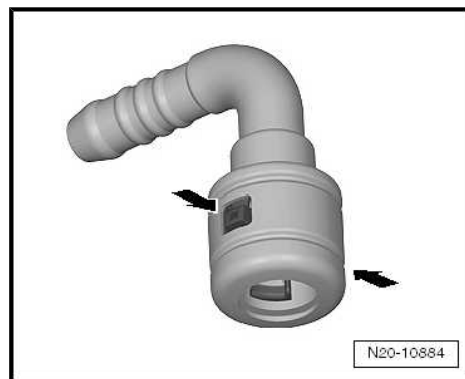
Risk of injury to eyes and skin caused by fuel.

Wear safety goggles and protective clothing to avoid possible injury and skin contact. Before opening hose connections wrap a cloth around the connection. Then relieve pressure by carefully opening the connection.

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Version 1

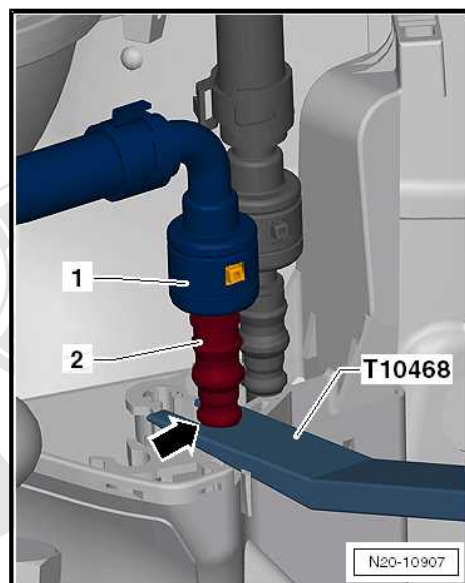
Plug-in connector with release tabs -arrows- on both sides



Disconnecting

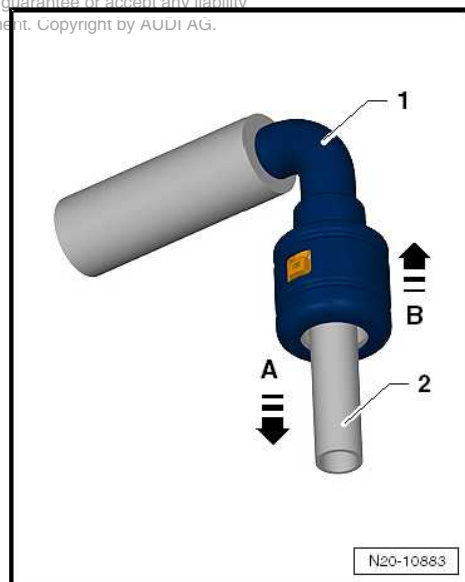
Counter-hold connection point for fuel -1- in engine compartment.

- Insert lever - T10468- between heat shield and stop -arrow- of fuel line -2- and counter-hold.



Continued for all connection points in fuel system.

- Press plug-in connector -1- in direction of -arrow A-.
- Press in and hold release tabs.
- Unplug plug-in connector -1- from fuel line -2- in direction of -arrow B-.
- When installing observe colour coding ⇒ [page 47](#) .
- Plug-in connectors should engage audibly when connecting.
- Check that plug-in connector is securely seated by pulling at it.



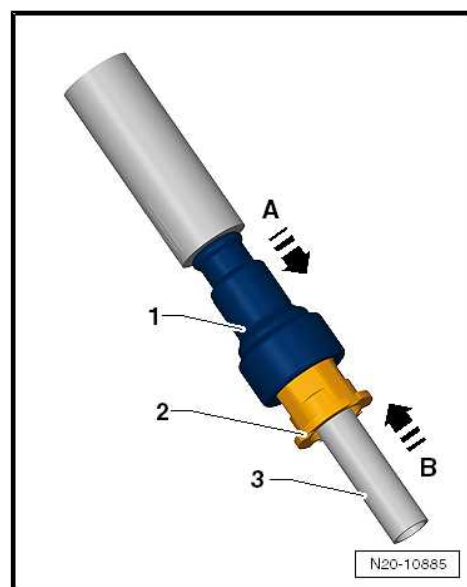
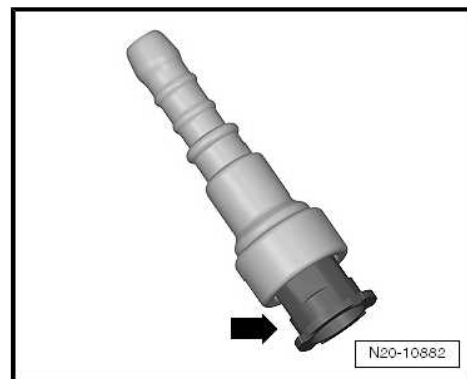
Version 2

Plug-in connector with pull release -arrow-:

Disconnecting

- Press plug-in connector -1- in direction of -arrow A-.
- Pull the pull release catch -2- in direction of -arrow B-.
- Unplug plug-in connector -1- from fuel line -3- in direction of -arrow B-.
- When installing observe colour coding ⇒ [page 47](#) .
- Plug-in connectors should engage audibly when connecting.
- Check that plug-in connector is securely seated by pulling at it.

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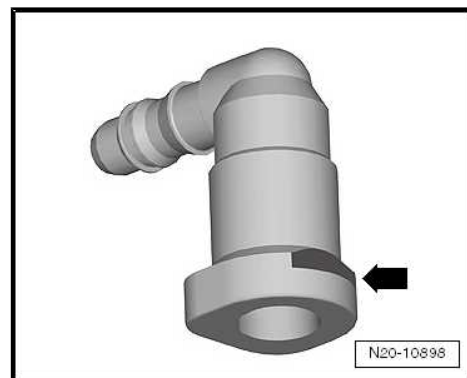


Version 3

Plug-in connector with release tab at front -arrow-:

Disconnecting

- Press release tab -arrow- and disconnect plug-in connectors.
- When installing observe colour coding ⇒ [page 47](#) .
- Plug-in connectors should engage audibly when connecting.
- Check that plug-in connector is securely seated by pulling at it.

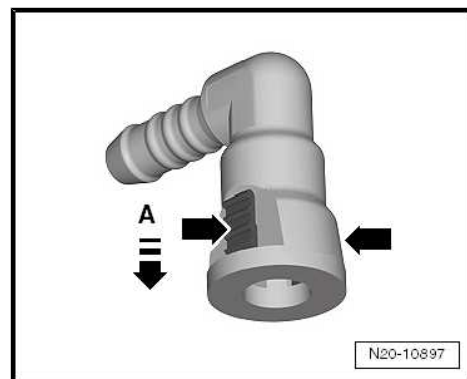


Version 4

Plug-in connector with release tab -arrows- on both sides:

Disconnecting

- Press plug-in connector in direction of -arrow A-.
- Press release tabs -arrows- and disconnect plug-in connector.
- When installing observe colour coding ⇒ [page 47](#) .
- Plug-in connectors should engage audibly when connecting.
- Check that plug-in connector is securely seated by pulling at it.



Version 5

Plug-in connector with release tabs -arrows- on both sides:

Disconnecting

- Press release tabs -arrows- and disconnect plug-in connector.
- When installing observe colour coding ⇒ [page 47](#) .
- Plug-in connectors should engage audibly when connecting.
- Check that plug-in connector is securely seated by pulling at it.

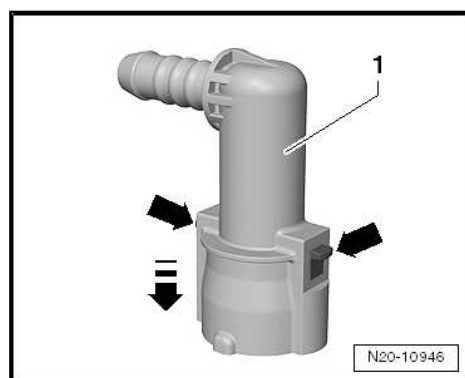
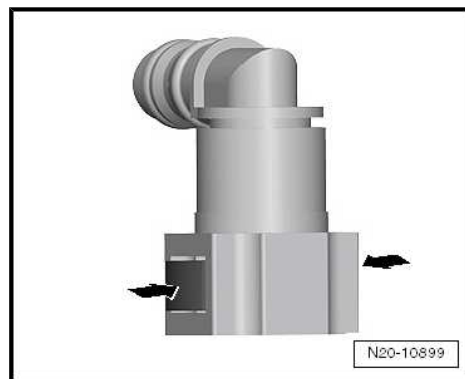
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Version 6

Plug-in connector with release tabs -arrows- on both sides:

Disconnecting

- Press and hold plug-in connector -1- in direction of -arrow -.
- Press release tabs -arrows- and disconnect plug-in connector.
- When installing observe colour coding ⇒ [page 47](#) .
- Plug-in connectors should engage audibly when connecting.
- Check that plug-in connector is securely seated by pulling at it.

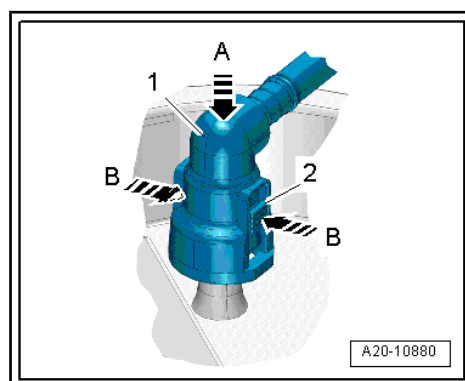


Version 7

Plug-in connector -1- with release tabs -2- on both sides:

Disconnecting

- Press and hold plug-in connector -1- in direction of -arrow A-.
- Press release tabs -2- in direction of -arrow B- and unplug plug-in connector -1-.
- When installing observe colour coding ⇒ [page 47](#) .
- Plug-in connectors should engage audibly when connecting.
- Check that plug-in connector is securely seated by pulling at it.



4 Fuel filter

⇒ [“4.1 Exploded view - fuel filter”, page 51](#)

⇒ [“4.2 Removing and installing fuel filter”, page 53](#)

4.1 Exploded view - fuel filter

⇒ [“4.1.1 Exploded view - fuel filter, all vehicles except versions for China”, page 51](#)

⇒ [“4.1.2 Exploded view - fuel filter, version for China”, page 53](#)

4.1.1 Exploded view - fuel filter, all vehicles except versions for China



Note

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The fuel filter is combined as one unit with the flange. It cannot be renewed separately if defective.

1 - Suction-jet pump

- ☐ Integrated in flange -item 5-
- ☐ Cannot be renewed separately

2 - Supply line for suction-jet pump

- ☐ From fuel delivery unit (fuel system pressurisation pump - G6-)
- ☐ Do not kink
- ☐ Disconnecting and connecting plug-in connectors ⇒ [page 47](#)

3 - Supply line

- ☐ To fuel delivery unit
- ☐ Do not kink
- ☐ Clipped onto fuel delivery unit
- ☐ Press catch to detach

4 - Fuel supply line

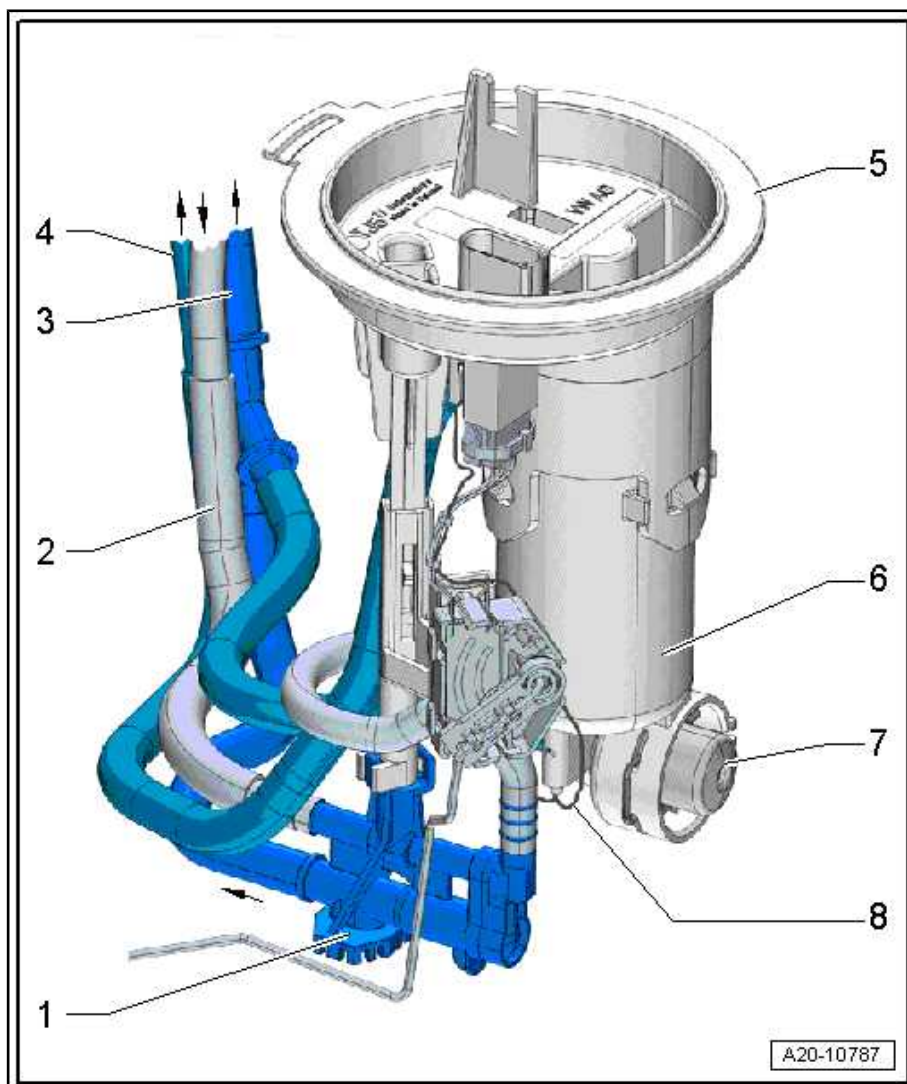
- ☐ To fuel fuel delivery unit/ flange
- ☐ Do not kink
- ☐ Disconnecting and connecting plug-in connectors ⇒ [page 47](#)

5 - Flange

- ☐ Removing and installing ⇒ [page 53](#)

6 - Fuel filter

- ☐ Integrated in flange -item 5-
- ☐ Cannot be renewed separately



7 - Fuel pressure regulator

- ☐ Integrated in flange -item 5-
- ☐ Cannot be renewed separately

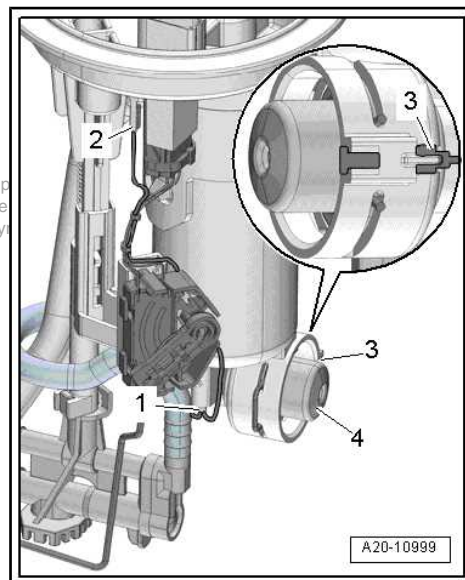
8 - Earth wire

- ☐ Connecting ➤ [page 52](#)

Connecting earth wire to flange, fuel filter and fuel pressure regulator

- Route earth wire as shown in illustration.

- 1 - Earth wire to fuel filter
- 2 - Earth wire to flange
- 3 - Earth wire to fuel pressure regulator
- 4 - Fuel pressure regulator



4.1.2 Exploded view - fuel filter, version for China

1 - Fuel filter

- ☐ With fuel pressure regulator
- ☐ Flow direction is marked by arrows
- ☐ Do not interchange connections
- ☐ Installation position: pin on filter housing must engage in notch on filter bracket
- ☐ Removing and installing ➔ [page 59](#)

2 - Fuel supply line

- ☐ Black
- ☐ From fuel tank
- ☐ Disconnecting and connecting plug-in connectors ➔ [page 47](#)

3 - Fuel return line

- ☐ Blue
- ☐ To fuel tank
- ☐ Disconnecting and connecting plug-in connectors ➔ [page 47](#)

4 - Bracket for fuel filter

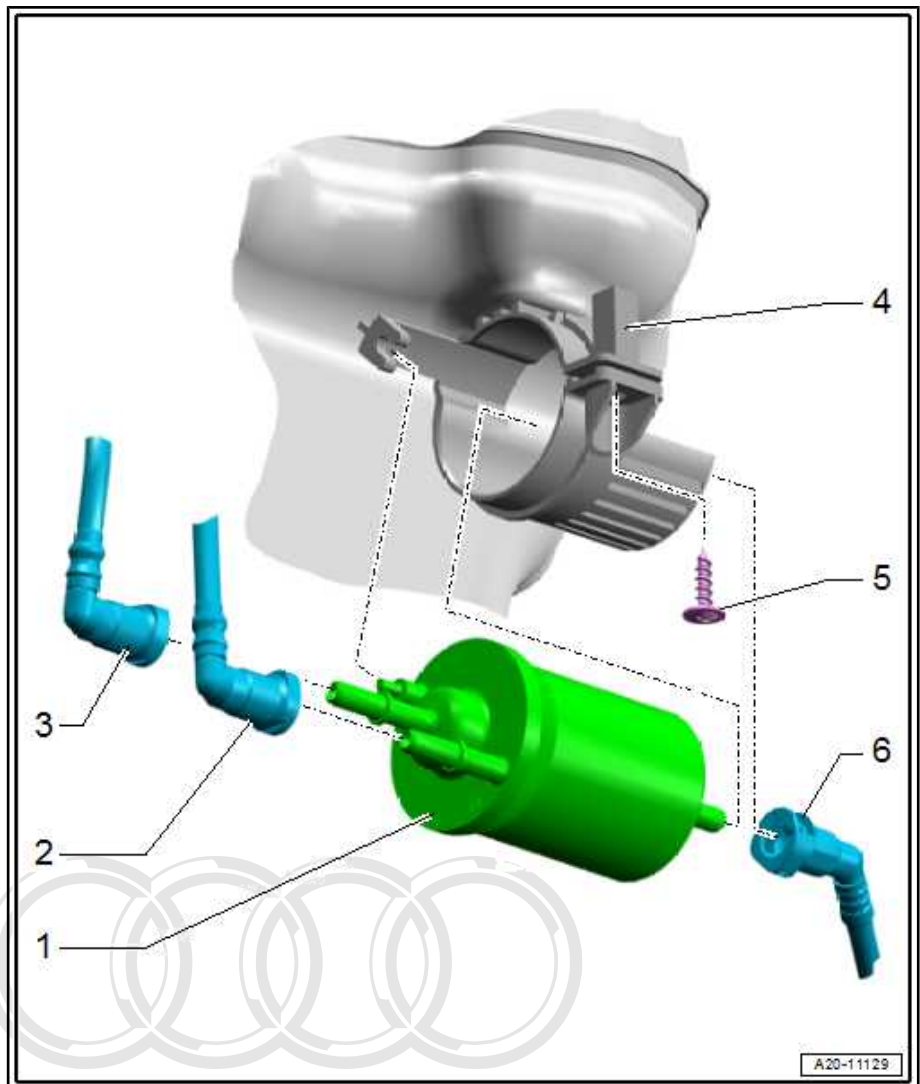
- ☐ Welded to fuel tank

5 - Bolt

- ☐ 1.5 Nm

6 - Fuel line

- ☐ Black
- ☐ To engine
- ☐ Disconnecting and connecting plug-in connectors ➔ [page 47](#)



4.2 Removing and installing fuel filter

➔ ["4.2.1 Removing and installing flange, all vehicles except versions for China", page 53](#)

➔ ["4.2.2 Removing and installing fuel filter, version for China", page 59](#)

4.2.1 Removing and installing flange, all vehicles except versions for China

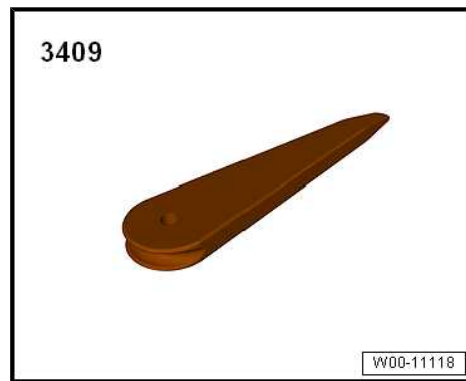


Note

The fuel filter is combined as one unit with the flange. It cannot be renewed separately if defective.

Special tools and workshop equipment required

◆ Removal wedge - 3409-



◆ Wrench - T10202-



Removing

- Observe safety precautions ➔ [page 1](#) .
- Observe rules for cleanliness ➔ [page 4](#) .
- Move front seats all the way forwards.



Caution

To prevent irreparable damage to the electronic components when disconnecting the battery:

- ◆ *Observe notes on procedure for disconnecting the battery.*

- Disconnect earth wire from battery terminal ➔ Electrical system; Rep. gr. 27 ; Battery; Disconnecting and connecting battery .



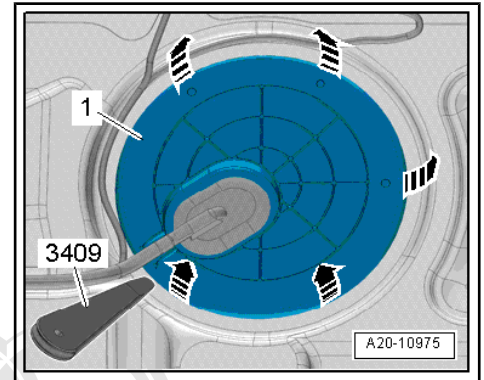
WARNING

Danger! Fuel may escape.

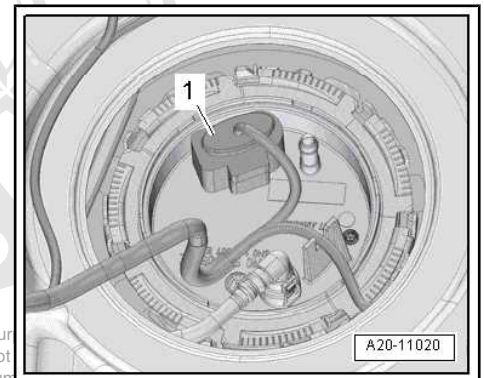
- ◆ *The fuel tank must not be more than 1/3 full when removing the fuel delivery unit, otherwise a large amount of fuel will escape.*

- Drain fuel tank if necessary ➔ [page 10](#) .
- Remove rear seat bench ➔ General body repairs, interior; Rep. gr. 72 ; Rear seats; Removing and installing seat bench/ individual seats .

- Unclip cover -1- for flange (right-side) at retainers -arrows- using removal wedge - 3409- .



- Release retainer catch and unplug electrical connector -1- on flange (right-side).



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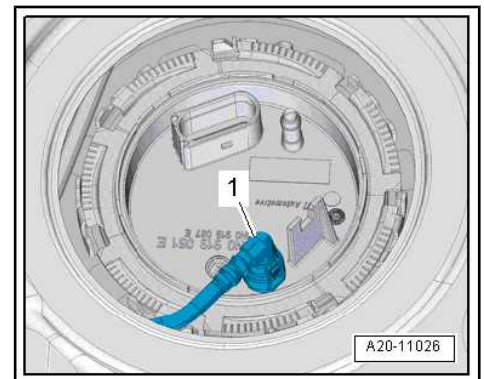


WARNING

Risk of injury - fuel system operates under high pressure.

- ◆ ***To reduce the pressure in the fuel system, wrap a clean cloth around the connection and carefully loosen the connection.***

- Disconnect fuel line -1- from flange. Disconnecting plug-in connectors ⇒ [page 47](#)

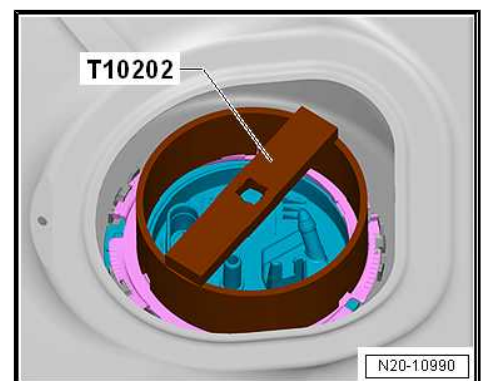


WARNING

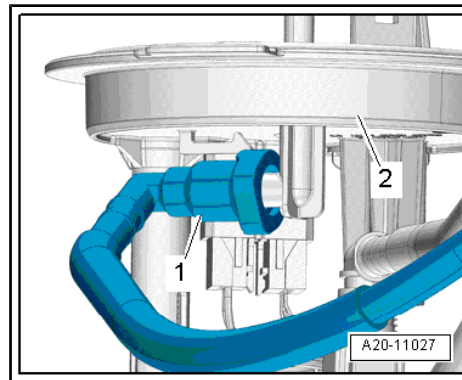
Danger! Fuel may escape.

- ◆ ***The fuel tank must not be more than 1/3 full when removing the fuel delivery unit, otherwise a large amount of fuel will escape.***

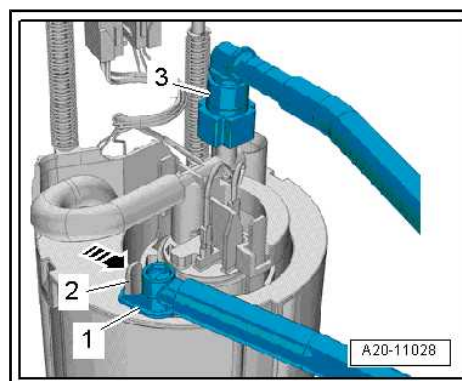
- Remove locking ring using wrench - T10202- .



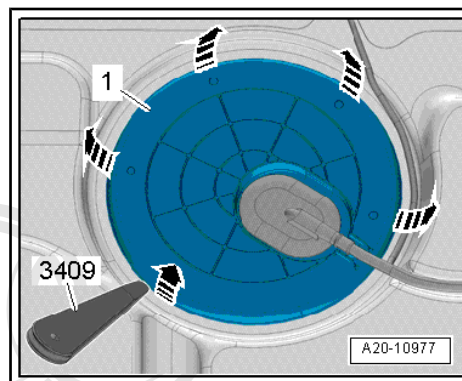
- Pull flange -2- slightly out of opening in fuel tank.
- Detach seal from opening in fuel tank.
- Disconnect fuel line -1- from flange. Disconnecting plug-in connectors ➔ [page 47](#)



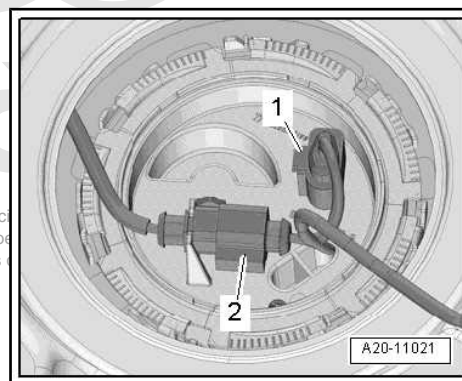
- Reach into opening in fuel tank and disconnect supply line -3- for suction-jet pump. Disconnecting plug-in connectors ➔ [page 47](#)
- Reach into opening in fuel tank and disconnect supply line -1- by pressing release tab -2- -arrow-.



- Unclip cover -1- for flange (left-side) at retainers -arrows- using removal wedge - 3409- .

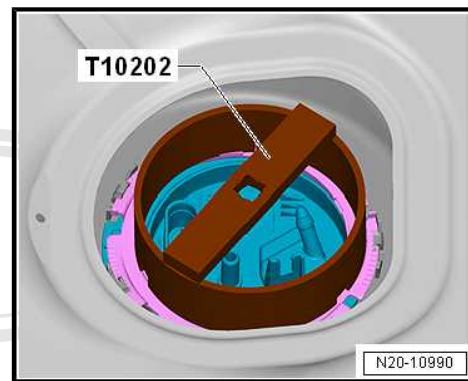


- Release retainer catch and unplug electrical connector -1- on flange (left-side).
- If fitted, disengage electrical connector -2- and move wiring clear to one side.



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 with respect to the correctness of information in this document.

- Remove locking ring using wrench - T10202- .



- Pull flange slightly out of opening in fuel tank.
- Detach seal from opening in fuel tank.
- Carefully pull flange with fuel filter -1-, suction-jet pump -2- and fuel gauge sender 2 - G169- -item 3- out of opening in fuel tank by turning and tilting components as required **arrows**.



Note

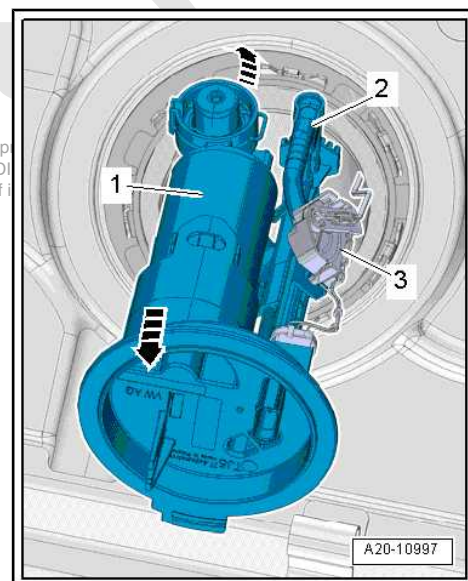
When removing, make sure you do not bend float arm of fuel gauge sender.



WARNING

Safety risk from escaping fuel: the suction-jet pump is still filled.

◆ ***Use a cloth to catch escaping fuel.***



- Pull flange with fuel lines -1- all the way out of opening in fuel tank.

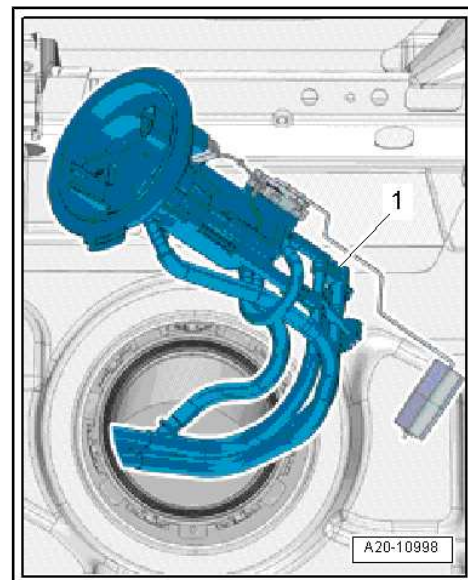
Installing

Installation is carried out in the reverse order; note the following:

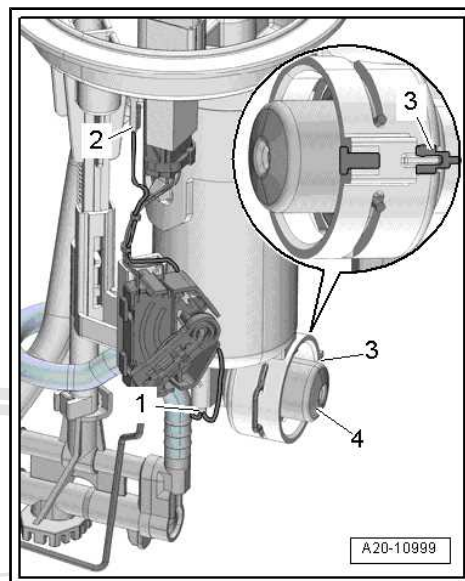


Note

- ◆ *Renew seals.*
- ◆ *Make sure that fuel hoses are securely fitted.*
- ◆ *When plugging in electrical connectors, make sure they engage correctly.*
- ◆ *When inserting, make sure you do not bend float arm of fuel gauge sender.*



- Route earth wire as shown in illustration.
- 1 - Earth wire to fuel filter
- 2 - Earth wire to flange
- 3 - Earth wire to fuel pressure regulator
- 4 - Fuel pressure regulator
- Carefully insert flange into fuel tank through opening, turning and tilting as required.



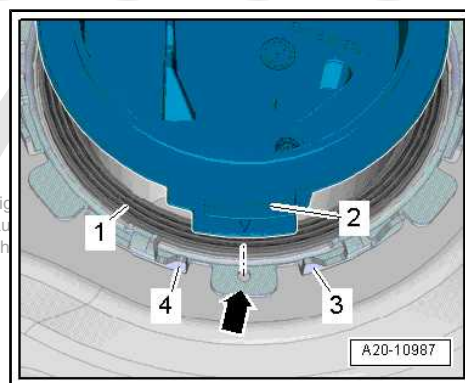
- Install new seal -1- for flange (seal must be installed dry).



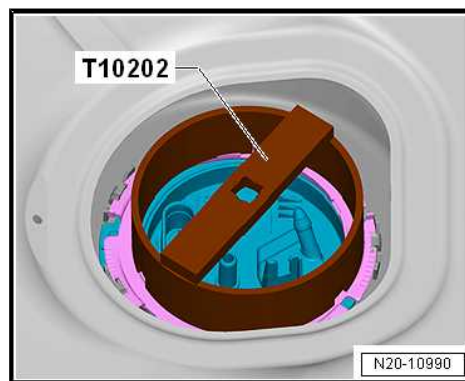
Caution

Leakage risk

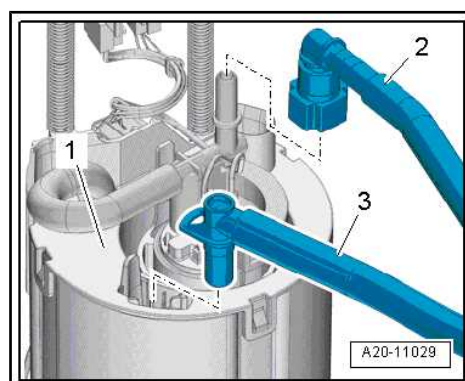
- ◆ **The seal must not be pinched or damaged when installing the flange.**



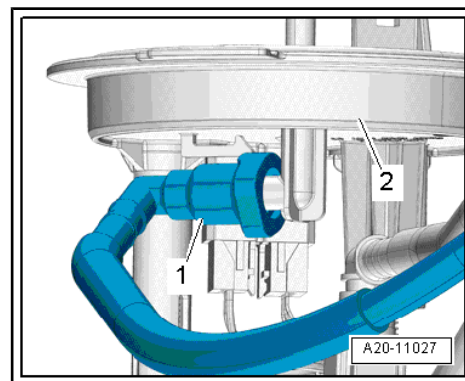
- Fit flange in correct installation position.
- Lug -2- on flange must point towards hole -arrow- on locking ring and must be between tabs -3 and 4- on fuel tank.
- Fit locking ring and secure using wrench - T10202- .
- Plug in electrical connector and make sure it is correctly engaged.
- Install cover for flange.



- Reach through opening in fuel tank and clip supply line -3- onto fuel delivery unit -1- so it engages audibly.
- Connect supply line for suction-jet pump -2- so it engages audibly.

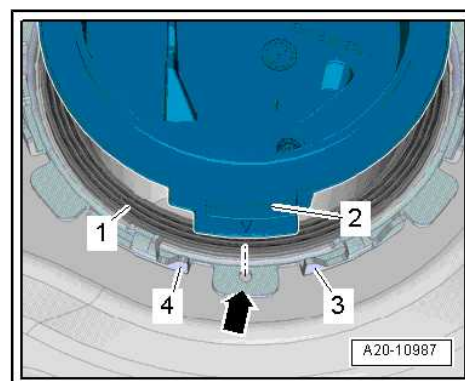


- Attach fuel line -1- to flange -2- so it engages audibly.
- Press supply line for suction-jet pump and fuel line in again and then pull to check that plug-in connectors are correctly engaged.

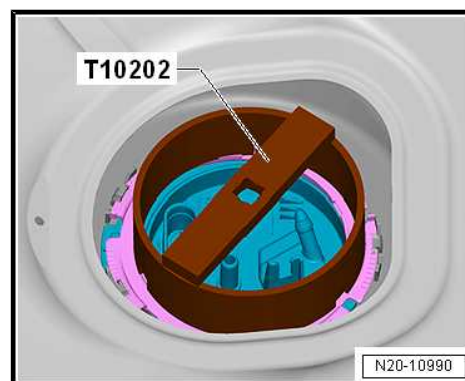


- Install new seal -1- for flange (seal must be installed dry).

Caution
Leakage risk
 ♦ *The seal must not be pinched or damaged when installing the flange.*



- With fuel delivery unit raised, fit flange in correct installation position.
- Lug -2- on flange must point towards hole -arrow- on locking ring and must be between tabs -3 and 4- on fuel tank.
- Press flange down against spring pressure.
- Fit locking ring and secure using wrench - T10202- .
- Connect fuel line, making sure it engages audibly.
- Press fuel line in again and then pull to check that plug-in connector is correctly engaged.
- Install rear seat bench ⇒ General body repairs, interior; Rep. gr. 72 ; Rear seats; Removing and installing seat bench/individual seats .
- Connect battery and perform steps required after re-connecting battery ⇒ Electrical system; Rep. gr. 27 ; Battery; Disconnecting and connecting battery .
- After installing the fuel filter, the fuel tank must be filled with at least 5 litres of fuel before starting the engine.



Note

The fuel pump must not be allowed to run in an empty fuel tank.

Tightening torques

- ♦ ⇒ "2.1.1 Exploded view - fuel delivery unit/fuel gauge senders, all vehicles except versions for China", page 23

4.2.2 Removing and installing fuel filter, version for China

Removing

- Observe safety precautions ⇒ [page 1](#) .
- Observe rules for cleanliness ⇒ [page 4](#) .



WARNING

Risk of injury - fuel system operates under high pressure.

- ◆ *To reduce the pressure in the fuel system, wrap a clean cloth around the connection and carefully loosen the connection.*

- Disconnect fuel lines -3, 4, 6-. Disconnecting plug-in connectors ➔ [page 47](#)
- Remove bolt -5-.
- Open bracket -1- and pull out fuel filter -2-.

Installing

Installation is carried out in the reverse order; note the following:

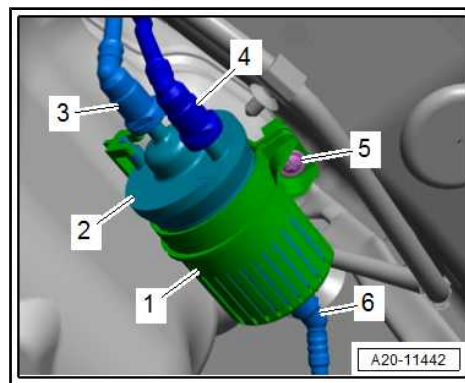
- Slide fuel filter into bracket as far as stop.

Installation position:

- Flow direction is marked with arrows on filter housing.
- Pin on filter housing must engage in notch on filter bracket.
- Connect fuel lines so they engage audibly.
- Press fuel line in again and then pull to check that plug-in connector is correctly engaged.

Tightening torques

- ◆ ➔ [“4.1.2 Exploded view - fuel filter, version for China”, page 53](#)



5 Activated charcoal filter system

⇒ [“5.1 Connection diagram - activated charcoal filter system”, page 61](#)

⇒ [“5.2 Exploded view - activated charcoal filter system”, page 63](#)

⇒ [“5.3 Removing and installing activated charcoal filter”, page 65](#)

5.1 Connection diagram - activated charcoal filter system

⇒ [“5.1.1 Connection diagram - activated charcoal filter system, all vehicles except NAR versions”, page 61](#)

⇒ [“5.1.2 Connection diagram - activated charcoal filter system, NAR vehicles”, page 62](#)

5.1.1 Connection diagram - activated charcoal filter system, all vehicles except NAR versions

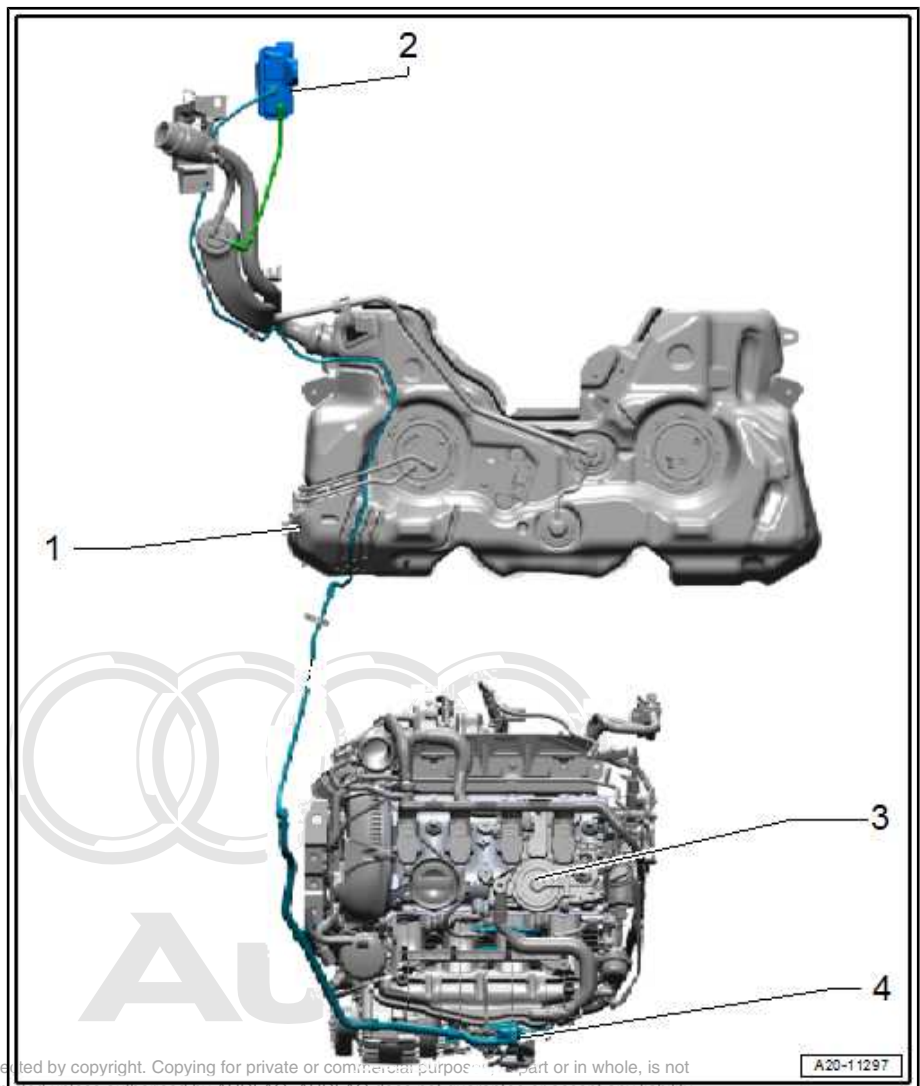
1 - Fuel tank

2 - Activated charcoal filter

□ Allocation ⇒ Electronic parts catalogue

3 - Engine

4 - Activated charcoal filter solenoid valve 1 - N80-



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5.1.2 Connection diagram - activated charcoal filter system, NAR vehicles

1 - Fuel tank

2 - Activated charcoal filter

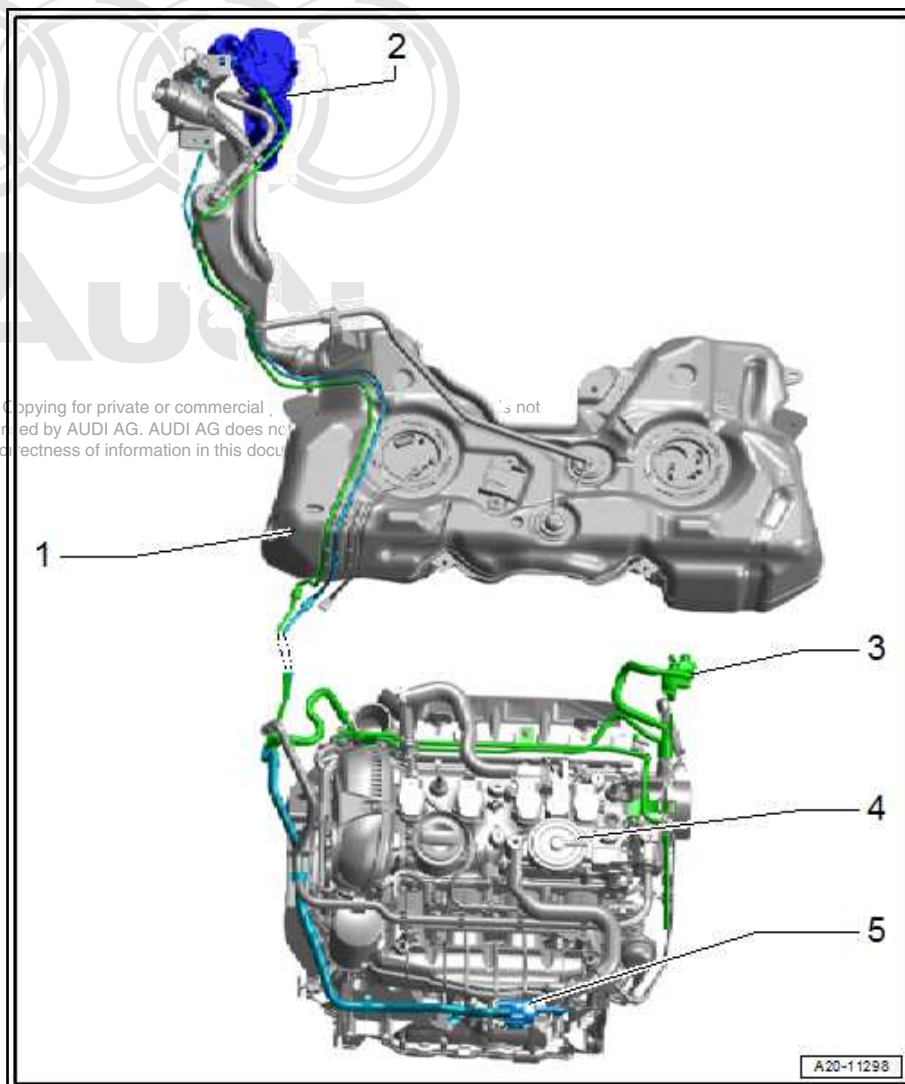
□ Allocation ⇒ Electronic parts catalogue

3 - Vacuum line

4 - Engine

5 - Activated charcoal filter solenoid valve 1 - N80-

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5.2 Exploded view - activated charcoal filter system

⇒ ["5.2.1 Exploded view - activated charcoal filter system, all vehicles except NAR versions", page 63](#)

⇒ ["5.2.2 Exploded view - activated charcoal filter system, NAR vehicles", page 64](#)

5.2.1 Exploded view - activated charcoal filter system, all vehicles except NAR versions

1 - Nut

- ☐ 2x
- ☐ Renew after removing
- ☐ 8 Nm + turn 90° further

2 - Activated charcoal filter

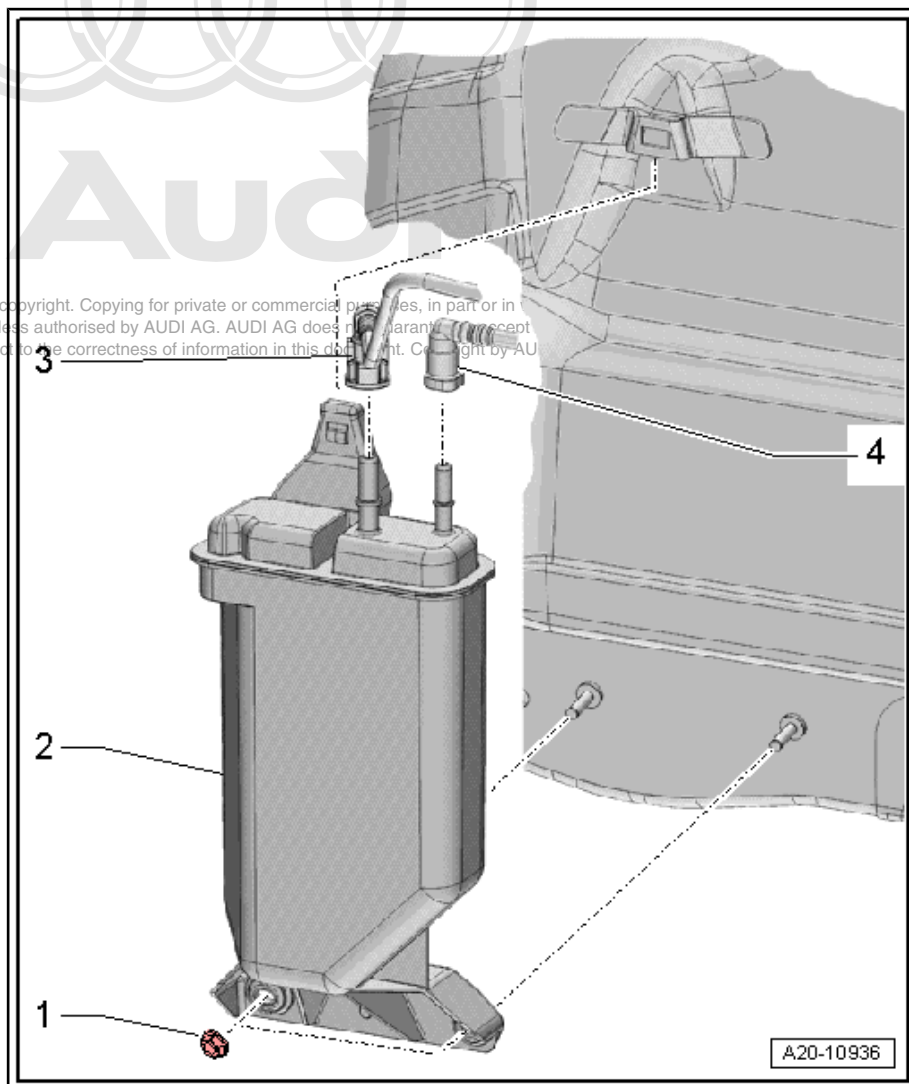
- ☐ Fitting location: in wheel housing (rear right) behind wheel housing liner
- ☐ Removing and installing ⇒ [page 65](#)

3 - Breather line

- ☐ To activated charcoal filter solenoid valve 1 - N80-
- ☐ Clipped onto fuel tank
- ☐ Disconnecting and connecting plug-in connectors ⇒ [page 47](#)

4 - Breather line

- ☐ To fuel filler neck
- ☐ Disconnecting and connecting plug-in connectors ⇒ [page 47](#)



5.2.2 Exploded view - activated charcoal filter system, NAR vehicles

1 - Nut

- ☐ 2x
- ☐ Renew after removing
- ☐ 8 Nm + turn 90° further

2 - Activated charcoal filter

- ☐ Fitting location: in wheel housing (rear right) behind wheel housing liner
- ☐ Removing and installing ⇒ [page 65](#)

3 - Breather line

- ☐ To activated charcoal filter solenoid valve 1 - N80-
- ☐ Clipped onto fuel tank
- ☐ Disconnecting and connecting plug-in connectors ⇒ [page 47](#)

4 - Bolt

- ☐ 1.8 Nm

5 - Air filter

- ☐ For tank leak diagnostic system
- ☐ Fitting location: in wheel housing (rear right) behind wheel housing liner
- ☐ Removing and installing ⇒ [“5.3 Removing and installing activated charcoal filter”, page 65](#)

6 - Clip

- ☐ Use correct type of clip (as original equipment) ⇒ Electronic parts catalogue

7 - Vent hose

8 - Clip

- ☐ Use correct type of clip (as original equipment) ⇒ Electronic parts catalogue

9 - Fuel system diagnostic pump - V144-

- ☐ Fitting location: in wheel housing (rear right) behind wheel housing liner
- ☐ Checking in “Guided Fault Finding” ⇒ Vehicle diagnostic tester
- ☐ Removing and installing ⇒ [“5.3 Removing and installing activated charcoal filter”, page 65](#)

10 - Bolt

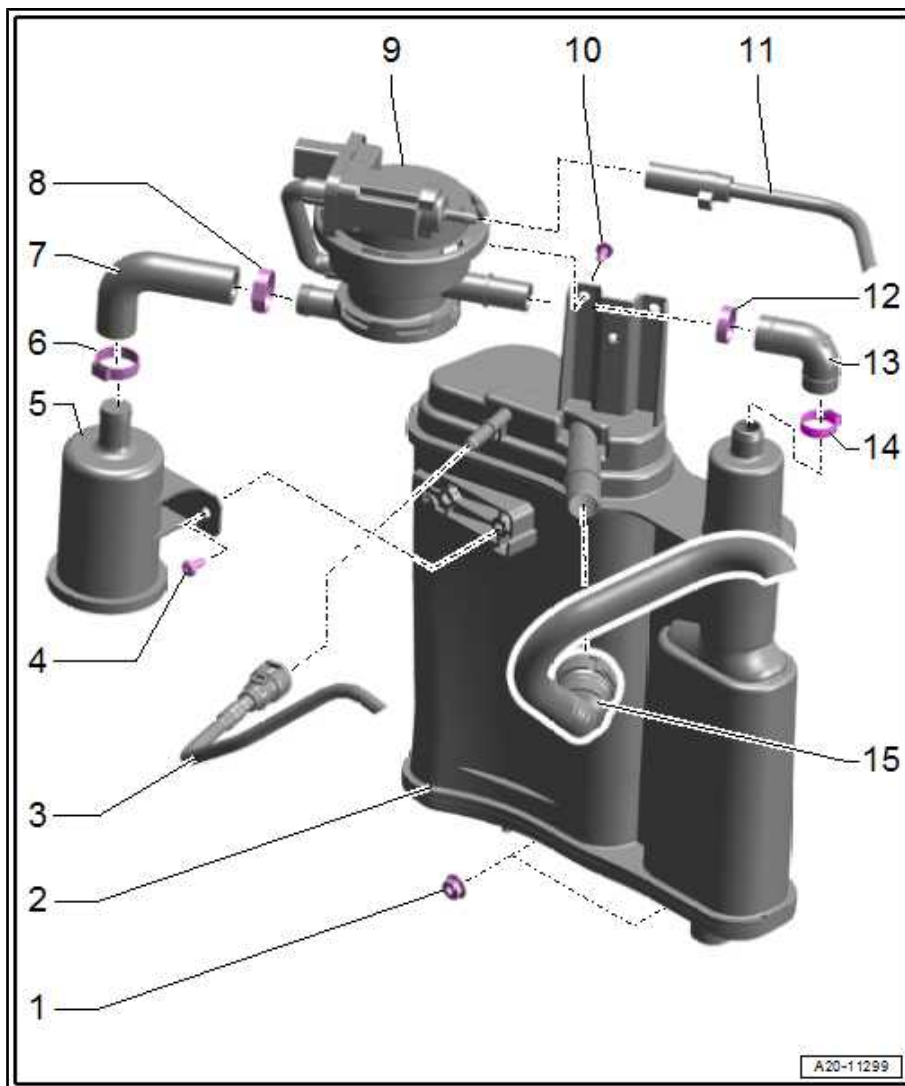
- ☐ 3x
- ☐ 1.8 Nm

11 - Leak diagnosis line

- ☐ To engine

12 - Clip

- ☐ Use correct type of clip (as original equipment) ⇒ Electronic parts catalogue



13 - Vent hose

14 - Clip

- ☐ Use correct type of clip (as original equipment) ⇒ Electronic parts catalogue

15 - Breather line

- ☐ To fuel filler neck
- ☐ Disconnecting and connecting plug-in connectors ⇒ [page 47](#)

5.3 Removing and installing activated charcoal filter

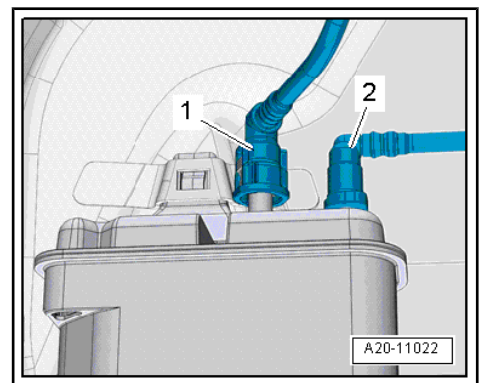
⇒ [“5.3.1 Removing and installing activated charcoal filter, all vehicles except NAR versions”, page 65](#)

⇒ [“5.3.2 Removing and installing activated charcoal filter - NAR vehicles”, page 66](#)

5.3.1 Removing and installing activated charcoal filter, all vehicles except NAR versions

Removing

- Observe safety precautions ⇒ [page 1](#) .
- Observe rules for cleanliness ⇒ [page 4](#) .
- Remove rear wheel housing liner (right-side) ⇒ General body repairs, exterior; Rep. gr. 66 ; Wheel housing liners; Removing and installing wheel housing liner (rear) .
- Disconnect breather lines -1 and 2- at activated charcoal filter. Disconnect plug-in connectors ⇒ [page 47](#) .



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- Unscrew nuts -1- and detach activated charcoal filter from studs.
- Press in retaining hook -2- with a screwdriver and pull activated charcoal filter -3- downwards out of retainer -arrow-.

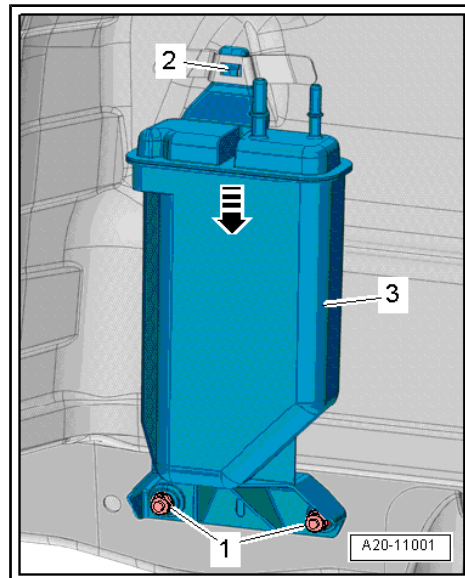
Installing

Installation is carried out in the reverse order; note the following:

- Connect breather lines, making sure they engage audibly.
- Press breather line in again and then pull to check that plug-in connector is correctly engaged.
- Install rear wheel housing liner ⇒ General body repairs, exterior; Rep. gr. 66 ; Wheel housing liners; Exploded view - wheel housing liner (rear) .

Tightening torques

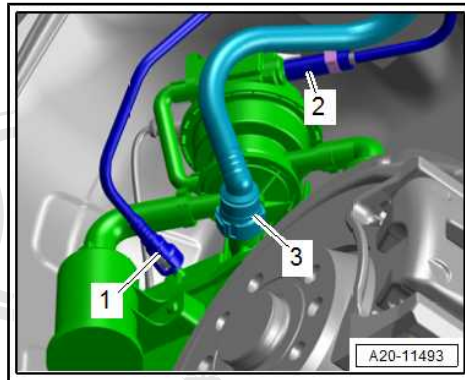
- ♦ ⇒ [“5.2 Exploded view - activated charcoal filter system”, page 63](#)



5.3.2 Removing and installing activated charcoal filter - NAR vehicles

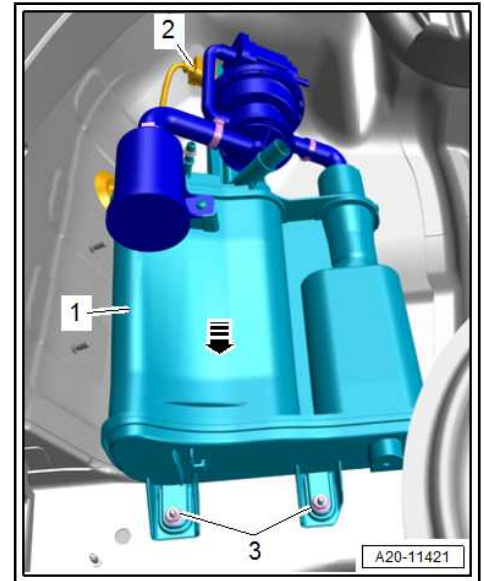
Removing

- Observe safety precautions ⇒ [page 1](#) .
- Observe rules for cleanliness ⇒ [page 4](#) .
- Remove rear wheel housing liner (right-side) ⇒ General body repairs, exterior; Rep. gr. 66 ; Wheel housing liners; Removing and installing wheel housing liner (rear) .
- Disconnect breather lines -1 and 3- at activated charcoal filter. Disconnecting plug-in connectors ⇒ [page 47](#)
- Detach leak diagnosis line -2- at diagnostic pump.



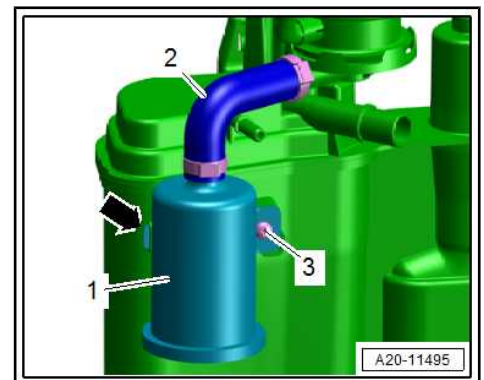
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- Unplug electrical connector -2-.
- Unscrew nuts -3- and detach activated charcoal filter from studs.
- Press in retaining hook with a screwdriver and pull activated charcoal filter -1- downwards out of retainer -arrow-.



Removing air filter:

- Remove bolt -3-.
- Disengage air filter -1- at activated charcoal filter -arrow-.
- Release hose clip and detach vent hose -2-.



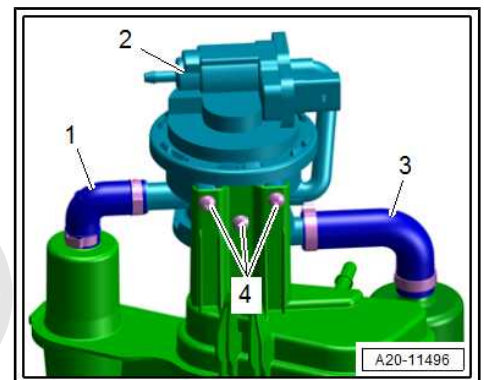
Removing fuel system diagnostic pump - V144- :

- Remove bolts -4-.
- Release hose clips and detach vent hoses -1 and 3-.
- Detach diagnostic pump -2-.

Installing

Installation is carried out in the reverse order; note the following:

- Connect breather lines, making sure they engage audibly.
- Press breather lines in again and then pull to check that plug-in connectors are correctly engaged.
- Install rear wheel housing liner ⇒ General body repairs, exterior; Rep. gr. 66 ; Wheel housing liners; Exploded view - wheel housing liner (rear) .



Tightening torques

- ◆ ⇒ ["5.2.2 Exploded view - activated charcoal filter system, NAR vehicles", page 64](#)

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6 Fuel pump

⇒ ["6.1 Checking fuel system pressurisation pump G6", page 68](#)

⇒ ["6.2 Removing and installing suction-jet pump", page 75](#)

⇒ ["6.3 Removing and installing fuel pump control unit J538", page 76](#)

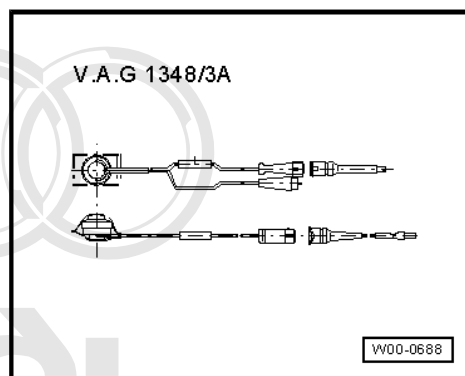
6.1 Checking fuel system pressurisation pump - G6-

Special tools and workshop equipment required

◆ Lever - T10468-



◆ Remote control - V.A.G 1348/3A- for V.A.G 1348 with adapter cable - V.A.G 1348/3-3-

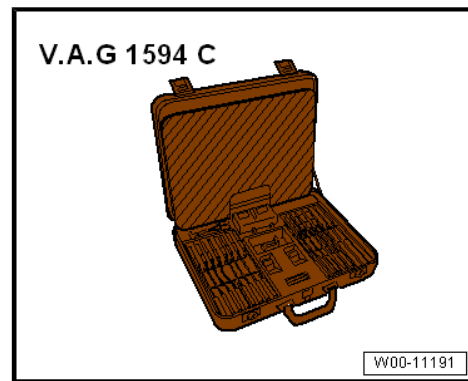


◆ Hand-held multimeter - V.A.G 1526 E-

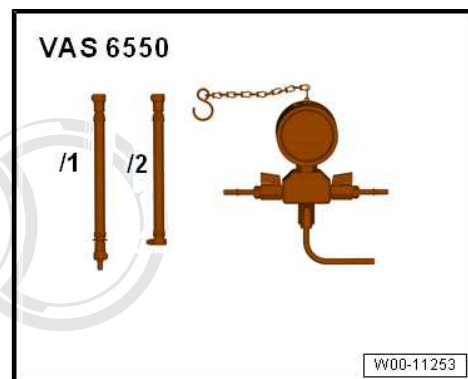
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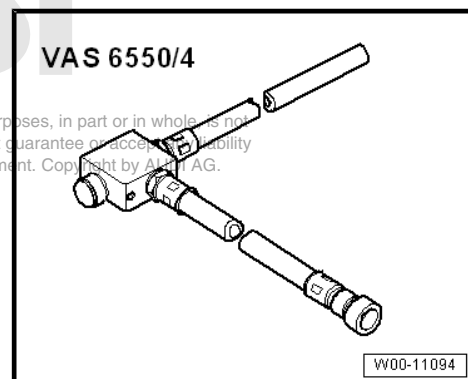
- ◆ Auxiliary measuring set - V.A.G 1594D-



- ◆ Pressure tester - VAS 6550- with hoses - VAS 6550/1- and - VAS 6550/2-



- ◆ Pressure control valve - VAS 6550/4-



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- ◆ Vehicle diagnostic tester
- ◆ Fuel-resistant measuring container

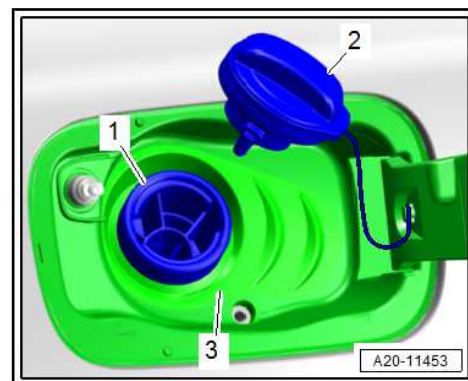
A - Checking fuel delivery rate

- Observe test conditions ⇒ [page 4](#) .
- Remove rear seat bench ⇒ General body repairs, interior; Rep. gr. 72 ; Rear seats; Removing and installing seat bench/ individual seats .
- Open tank flap.
- Remove filler cap -2- for fuel filler neck -1-.

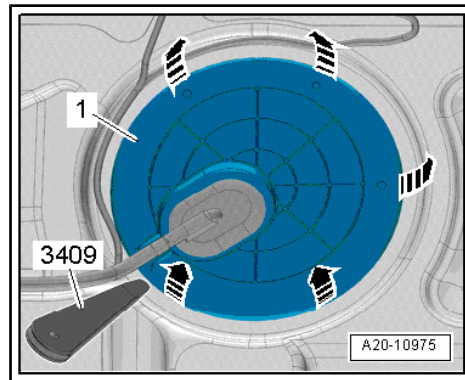


Note

Disregard -item 3-.



- Unclip cover -1- for flange (right-side) at retainers -arrows- using removal wedge - 3409- .

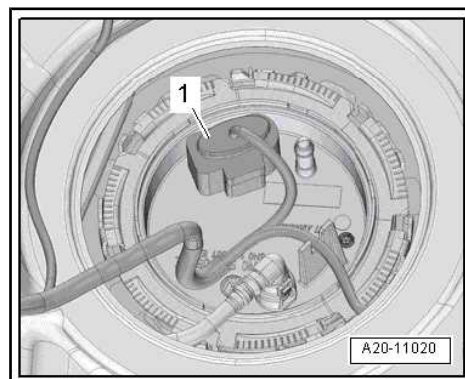


- Release retainer catch and unplug electrical connector -1- on flange.

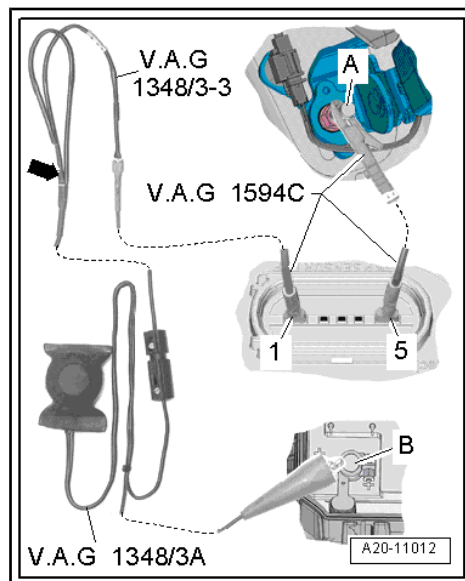


Note

The illustration shows the installation position for rest-of-world/ NAR vehicles; other versions are similar.



- Connect remote control - V.A.G 1348/3A- for V.A.G 1348 to contact -1- using adapter cable -V.A.G 1348/3-3- and test lead from auxiliary measuring set - V.A.G 1594D- .
- Tape off 2nd connector contact of adapter cable -V.A.G 1348/3-3- with insulating tape -arrow- to prevent short circuits.
- Connect contact -5- to vehicle body (earth) -A- using a test lead from auxiliary measuring set - V.A.G 1594D- .
- Connect crocodile clip to positive battery terminal "+" -item B-.



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Version 1:

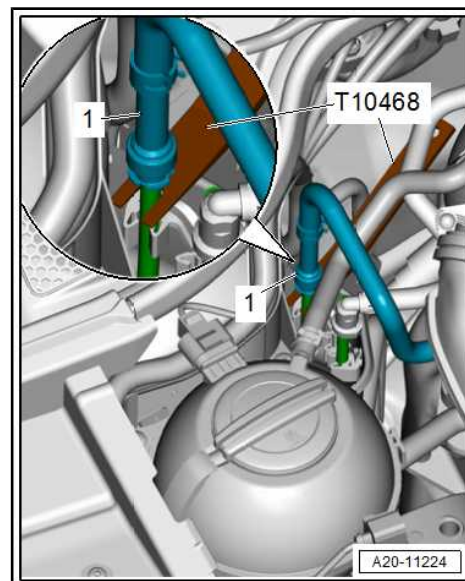


WARNING

Risk of injury - fuel system operates under high pressure.

- ◆ *To reduce the pressure in the fuel system, wrap a clean cloth around the connection and carefully loosen the connection.*

- Disconnect fuel supply line -1-. Disconnecting plug-in connectors ➔ [page 47](#)



Version 2:

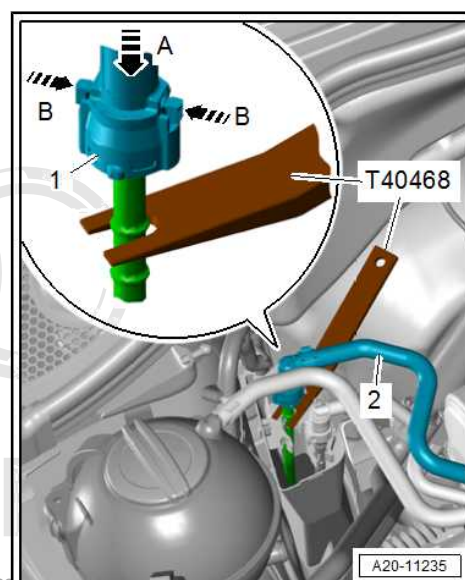


WARNING

Risk of injury - fuel system operates under high pressure.

- ◆ *To reduce the pressure in the fuel system, wrap a clean cloth around the connection and carefully loosen the connection.*

- Disconnect fuel line -2-. Disconnecting hose connectors ➔ [page 47](#)



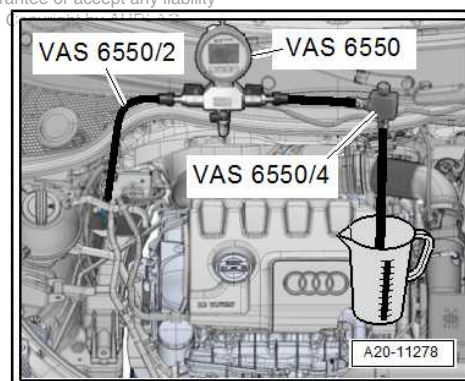
All vehicles (continued):

- Connect pressure tester - VAS 6550- to fuel supply line with hose - VAS 6550/2- .
- Attach pressure control valve - VAS 6550/4- and hold end of hose into fuel-resistant measuring container.



Note

The illustration shows the 2.0 ltr. TFSI engine.



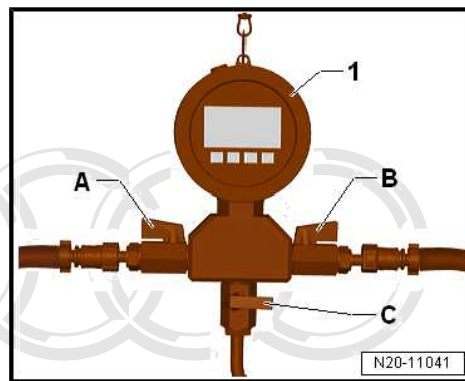
- Switch on pressure tester - VAS 6550- -item 1- by pressing **On/Off** button.



Note

To measure the fuel delivery rate, pressure must first be built up in the fuel line; the fuel pump must then operate against this pressure during the measurement. This pressure can be built up using the pressure control valve - VAS 6550/4- as follows:

- Open cut-off valves -A and B-.
- Levers must point in direction of flow.



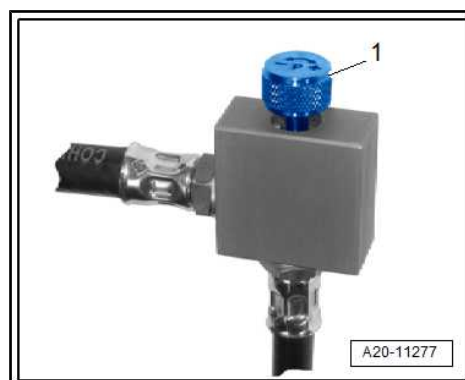
Caution

Risk of fuel escaping.

- ◆ **Make sure that drain tap -C- is closed.**
- ◆ **The lever should point perpendicular to direction of flow.**

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- To build up pressure in fuel system, press remote control switch and turn adjuster screw -1- on pressure control valve - VAS 6550/4- until correct pressure is reached.
- Specification: 4.0 bar
- From this point on, do not turn adjuster screw -1-.
- Drain measuring container.
- Press remote control switch for 15 seconds.



- Compare amount of fuel delivered with minimum delivery shown in diagram (cm³/15 sec.).



Note

Voltage at fuel pump with engine stationary and pump running is approx. 2 volts less than battery voltage.

If the minimum delivery rate is attained:

- ◆ Fuel supply line with fuel filter and fuel pump are OK

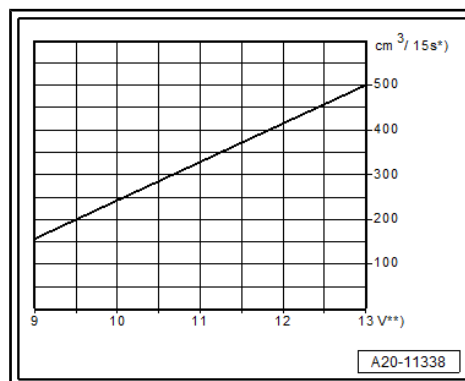
If minimum delivery rate is not achieved, check for the following causes:

- ◆ Fuel pump or fuel pressure regulator faulty.
- ◆ Blocked fuel filter or crushed fuel line.



Note

To find the precise cause of the fault, a pressure test must be performed on the fuel supply line as described below.



B - Pressure test on fuel supply line

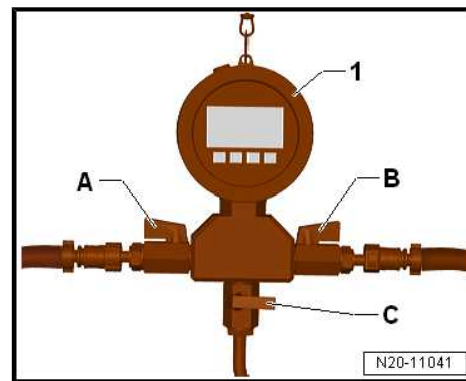
- Leave measuring equipment connected in the same way as for measuring the fuel delivery rate.
- Leave remote control - V.A.G 1348/3A- for V.A.G 1348 connected.
- Switch on pressure tester - VAS 6550- -item 1- by pressing **On/Off** button.
- Open cut-off valves -A and B-.
- Levers must point in direction of flow.



Caution

Risk of fuel escaping.

- ◆ *Cut-off valve -C- must be closed.*
- ◆ *The lever should point perpendicular to direction of flow.*



- Press remote control switch.
- When fuel emerging is free of bubbles, close cut-off valve -B- to allow fuel pressure to build up.
- The lever should point perpendicular to direction of flow.
- Read fuel pressure off pressure tester - VAS 6550- :
- Specification: at least 6.0 bar

If specification is attained although fuel delivery rate was not OK:

- ◆ Blocked fuel filter or crushed fuel supply line.

If specification is not attained:

- ◆ Fuel pump or fuel pressure regulator faulty.

C - Checking residual pressure

- Check system for leaks and check residual pressure by watching drop in pressure on pressure tester - VAS 6550- :
- After 10 minutes pressure should still be at least 3 bar.

If the residual pressure drops below 3 bar:

- ◆ Check fuel lines and their connections for leaks.
- ◆ Non-return valve in fuel pump is leaking, renew fuel delivery unit ➔ [page 27](#) .

Assembling

Installation is carried out in the reverse order; note the following:

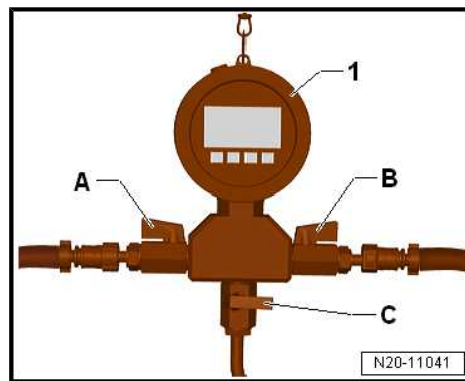
- The ignition must be switched off.

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**Note**

Before removing the pressure tester -1-, release the fuel pressure by opening the cut-off valves -B, C- and allowing fuel to drain off into a measuring container.

- Detach pressure tester - VAS 6550- together with connection leads.
- Connect fuel supply line, making sure it engages audibly.
- Press fuel supply line in again and then pull to check that plug-in connector is correctly engaged.
- Install rear seat bench ⇒ General body repairs, interior; Rep. gr. 72 ; Rear seats; Removing and installing seat bench/individual seats .



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6.2 Removing and installing suction-jet pump

The fuel tank is divided into a left and a right chamber. A so-called suction-jet pump -2- is used for delivering the fuel from the left fuel tank chamber to the baffle housing of the fuel delivery unit -1- on the right.

Suction-jet pump: operation

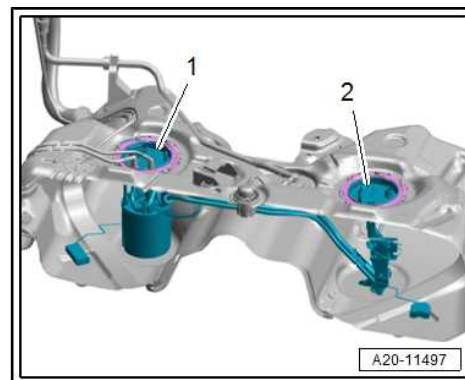
The suction-jet pump operates according to the principle of fluid entrainment: the stream of fuel from the electric fuel pump is passed through a nozzle in the suction-jet pump, and is thus accelerated. The accelerated stream of fuel draws off the surrounding fuel and delivers it to the baffle housing of the fuel delivery unit.

Faults caused by defective suction-jet pump



Caution

If the suction-jet pump is defective, the engine can stop due to fuel starvation when the tank is still $\frac{1}{4}$ full.



If the suction-jet pump is not working, up to 15 litres of fuel (up to approx. $\frac{1}{4}$ of tank capacity) may remain in the left chamber of the tank from where it cannot be drawn into the fuel delivery unit.

If the engine stops due to fuel starvation with the tank up to approx. $\frac{1}{4}$ full, proceed as follows:

- Check fuel pump in **Guided Fault Finding** ⇒ Vehicle diagnostic tester.
- Follow instructions shown on display of vehicle diagnostic tester.
- After reading out data from control unit, press **Go to key** and select function/component.
- Function/component selection:
 - + Power unit (Rep. Gr. 01; 10 - 39)
 - + ... - Engine (Rep. Gr. 01, 10 - 28)
 - + 20 Fuel supply system
 - + Electrical components
 - G6 - Fuel pump (Rep. Gr. 20)
- Continue to follow instructions shown on display of vehicle diagnostic tester.

If fuel pump is OK, but no fuel is delivered:

- Add approx. 5 litres of fuel.
- Start engine.

If engine now starts:



Note

The suction-jet pump cannot be renewed separately if defective.

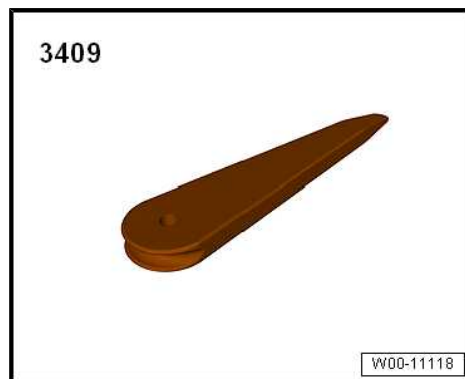
- All vehicles except versions for China: Renew flange with suction-jet pump, fuel filter and fuel pressure regulator
 ⇒ [page 53](#).

- Version for China: Renew flange with suction-jet pump and fuel gauge sender 2 - G169- ➔ [page 43](#) .

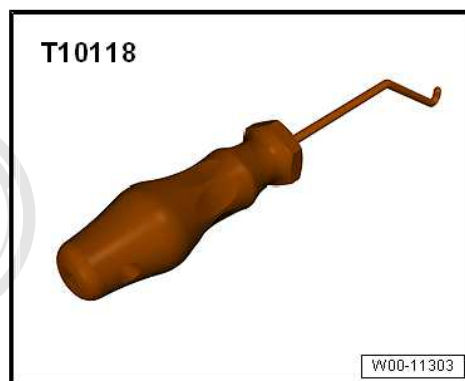
6.3 Removing and installing fuel pump control unit - J538-

Special tools and workshop equipment required

- ◆ Removal wedge - 3409-

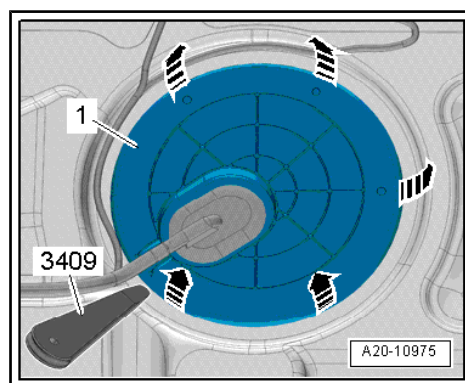


- ◆ Assembly tool - T10118-



Removing

- Move front seats all the way forwards.
- Switch off ignition.
- Remove rear seat bench ➔ General body repairs, interior, Rep. gr. 72 ; Rear seats; Removing and installing seat bench/ individual seats .
- Unclip cover -1- for flange (right-side) at retainers -arrows- using removal wedge - 3409- .



- Feel for recess -arrow- on connector with your finger and hook assembly tool - T10118- into recess.
- Release retaining catches -1- with your finger or a screwdriver and at the same time pull fuel pump control unit - J538- -item 2- out of mounting using assembly tool - T10118- .
- Guide fuel pump control unit - J538- out towards interior between fuel tank and underbody.

Installing

- Insert fuel pump control unit - J538- into mounting and press down until it clicks into place.

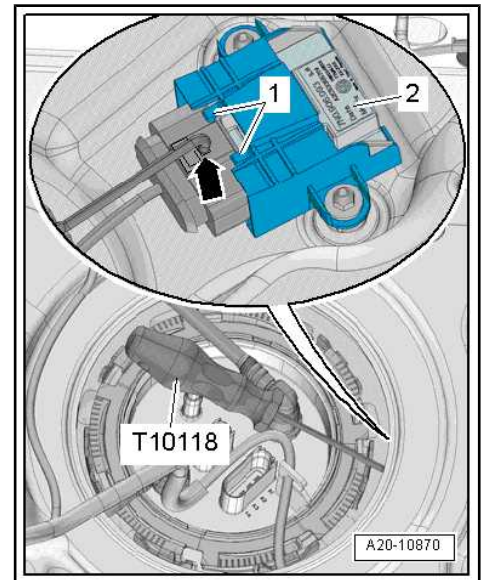
Remaining installation steps are carried out in reverse sequence; note the following:



Note

When plugging in electrical connectors, make sure they engage correctly.

- Install rear seat bench ⇒ General body repairs, interior; Rep. gr. 72 ; Rear seats; Removing and installing seat bench/individual seats .



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7 Accelerator mechanism

⇒ [“7.1 Exploded view - accelerator pedal module”, page 78](#)

⇒ [“7.2 Removing and installing accelerator pedal module with accelerator position sender G79 / G185”, page 78](#)

7.1 Exploded view - accelerator pedal module

1 - Bolt

- ☐ 9 Nm

2 - Mounting

- ☐ For accelerator pedal module

3 - Electrical connector

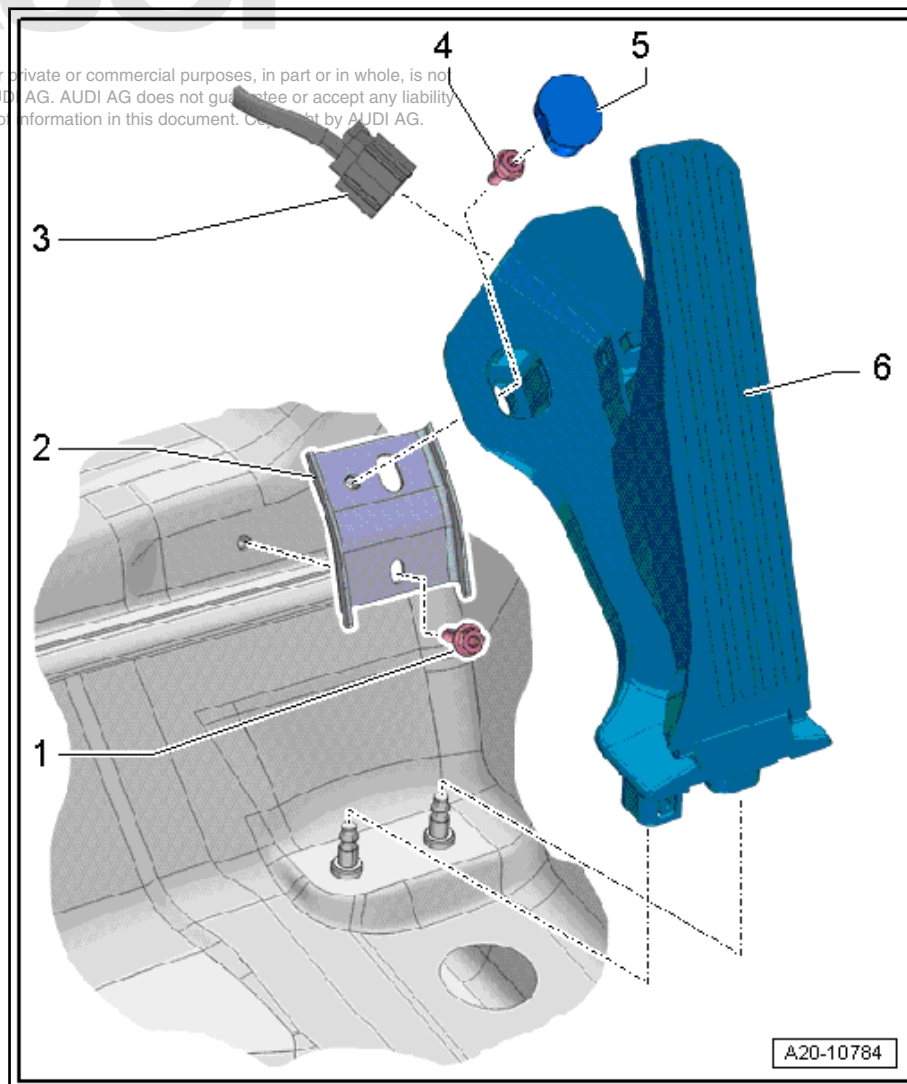
4 - Bolt

- ☐ 9 Nm

5 - Cap

6 - Accelerator pedal module

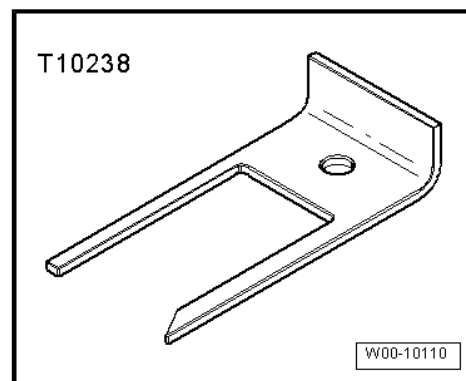
- ☐ With accelerator position sender - G79- and accelerator position sender 2 - G185-
- ☐ Removing and installing
⇒ [page 78](#)
- ☐ Checking in [Guided Fault Finding](#) ⇒ Vehicle diagnostic tester
- ☐ Adaption may be required after renewing, depending on engine/gearbox combination
- ☐ If this menu item is available in “Guided Functions”, perform adaption
⇒ Vehicle diagnostic tester



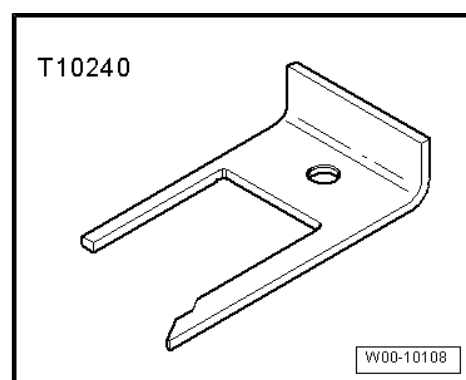
7.2 Removing and installing accelerator pedal module with accelerator position sender -G79- / -G185-

Special tools and workshop equipment required

- ◆ For LHD vehicles: release tool - T10238-



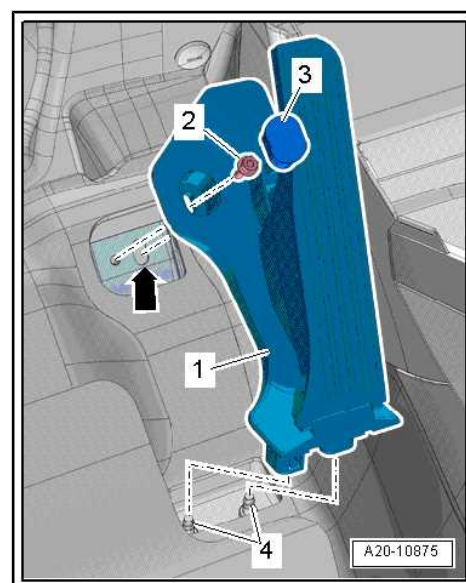
- ◆ For RHD vehicles: release tool - T10240-



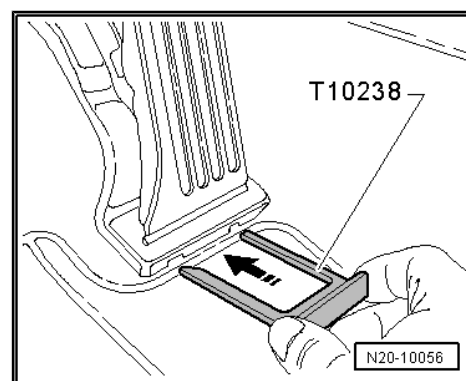
Removing

- Remove steering column cover ⇒ General body repairs, interior; Rep. gr. 70 ; Passenger compartment trim panels; Exploded view - foot rest and floor covering .
- Using a screwdriver, pry off cap -3- and remove bolt -2- beneath cap.
- Detach accelerator pedal module from mounting -arrow-.
- Unclip accelerator pedal module -1- from pins -4- and lift off.

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- To do so, slide release tool - T10238- (or release tool - T10240- for RHD vehicles) fully into slots provided -arrow-.



- Push release tab -1- upwards -arrow- and unplug electrical connector -2- at accelerator pedal module.

Installing

Installation is carried out in the reverse order; note the following:



Note

When plugging in electrical connectors, make sure they engage correctly.

- Install steering column cover ⇒ General body repairs, interior; Rep. gr. 70 ; Passenger compartment trim panels; Exploded view - foot rest and floor covering .

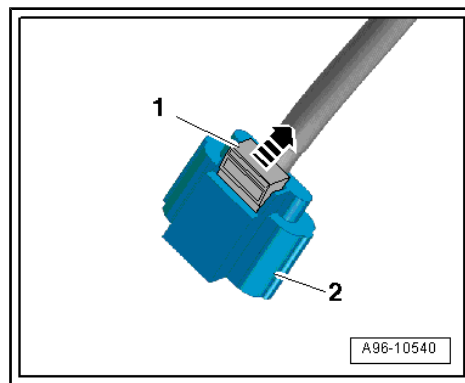


Note

- ♦ *Adaption must be carried out after renewing, depending on engine/gearbox combination.*
- ♦ *If this menu item is available in "Guided Functions", perform adaption ⇒ Vehicle diagnostic tester.*

Tightening torques

- ♦ ⇒ ["7.1 Exploded view - accelerator pedal module", page 78](#)



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