

# Safety Recall

## Code: 20W9



Audi

**REVISION**

<b>Subject</b>	<b>Fuel Pump Flange</b>
<b>Revision Summary</b>	<b>Work procedure and claiming instructions updated.</b>
<b>Release Date</b>	December 8, 2016
<b>Affected Vehicles</b>	<b>U.S.A. &amp; CANADA: Certain 2009-2012 MY Audi Q5 &amp; 2007-2012 MY Audi Q7</b> <i>Check Campaigns/Actions screen in Elsa on the day of repair to verify that a VIN qualifies for repair under this action. Elsa is the <u>only</u> valid campaign inquiry &amp; verification source.</i> <ul style="list-style-type: none"><li>✓ Campaign status must show "open."</li><li>✓ If Elsa shows other open action(s), inform your customer so that the work can also be completed at the same time the vehicle is in the workshop for this campaign.</li></ul>
<b>Problem Description</b>	On certain vehicles, the fuel pump flange may develop fine cracks or fissures, which could result in a fuel leak. Leaking fuel, in the presence of an ignition source, could lead to a fire causing injury and/or damage to property.
<b>Corrective Action</b>	Apply a butyl protective film to the fuel pump flange. If cracks are present, the fuel pump flange will be replaced.
<b>Precautions</b>	If a fuel smell is detected in the vehicle, customers are advised to immediately contact the nearest authorized Audi dealer in order to have the vehicle inspected.
<b>Parts Information</b>	Parts were allocated prior to owner notification. If allocated parts have been used and your dealership is at the weekly Upper Order Limit, please submit the backordered sales document number to <a href="mailto:upperorderlimits@audi.com">upperorderlimits@audi.com</a> to have additional parts released.  Part numbers 7L8919679, 8R0919679C and 1J0919133B will not be allocated and will be placed on Technical Service Block. If these parts are needed to repair a vehicle requiring a fuel pump flange, follow the instructions in the bulletin to have the part released.
<b>Code Visibility</b>	On November 30, 2016, affected vehicles were listed on the Inventory Vehicle Open Campaign Action report under My Dealership Reports (found on <a href="http://www.accessaudi.com">www.accessaudi.com</a> & OMD Web). A list was not posted for dealers who did not have any affected vehicles.  On November 30, 2016, this campaign code showed open on affected vehicles in Elsa.  On November 30, 2016, affected vehicles were identified with this campaign code in the VIN Lookup tool at <a href="http://www.audiusa.com">www.audiusa.com</a> and on the NHTSA VIN lookup tool at <a href="http://www.safercar.gov">www.safercar.gov</a> .
<b>Owner Notification</b>	Owner notification took place in November 2016. Owner letter examples are included in this bulletin for your reference.
<b>Additional Information</b>	<b>Please alert everyone in your dealership about this action, including Sales, Service, Parts and Accounting personnel. Contact Warranty if you have any questions.</b>  <b>IMPORTANT REMINDER ON VEHICLES AFFECTED BY SAFETY &amp; COMPLIANCE RECALLS</b> <b><u>New Vehicles in Dealer Inventory:</u> It is a violation of Federal law for a dealer to deliver a new motor vehicle or any new or used item of motor vehicle equipment (including a tire) covered by this notification under a sale or lease until the defect or noncompliance is remedied. By law, dealers must correct, prior to delivery for sale or lease, any vehicle that fails to comply</b>

with an applicable Federal Motor Vehicle Safety Standard or that contains a defect relating to motor vehicle safety.

**Pre-Owned Vehicles in Dealer Inventory: Dealers should not deliver any pre-owned vehicles in their inventory which are involved in a safety or compliance recall until the defect has been remedied.**

Dealers must ensure that every affected inventory vehicle has this campaign completed before delivery to consumers.

### Claim Entry Instructions

After campaign has been completed, enter claim as soon as possible to help prevent work from being duplicated elsewhere. Attach the Elsa screen print showing action open on the day of repair to the repair order.

If customer refused campaign work:

- ✓ U.S. dealers: Submit the request through Audi Warranty Online under the Campaigns/Update option.
- ✓ Canada dealers: Fax repair order to Warranty at (905) 428-4811.

<b>Service Number</b>	20W9																								
<b>Damage Code</b>	0099																								
<b>Parts Vendor Code</b>	002																								
<b>Claim Type</b>	Sold vehicle: 7 10 Unsold vehicle: 7 90																								
<b>Causal Indicator</b>	Mark protective film or fuel filter flange as causal part*																								
<b>Vehicle Wash/Loaner</b>	Do not claim wash/loaner under this action																								
<b>Criteria I.D.</b>	4L (Audi Q7)																								
<p><b>-if cracks and/or yellow discoloration <u>ARE NOT</u> found-</b></p> <p>Check fuel filter flange. Cracks, leaks, and/or yellow discoloration <u>NOT</u> found; install protective film.</p> <p>Labor operation: 7249 19 99                      60 T.U.</p> <table border="1"><thead><tr><th><u>Quantity</u></th><th><u>Part Number</u></th><th><u>Part Description</u></th></tr></thead><tbody><tr><td>4.00</td><td>N 90965001</td><td>Socket head bolt</td></tr><tr><td>1.00</td><td>N 91040702</td><td>Socket head bolt</td></tr><tr><td>1.00</td><td>8R0863385</td><td>Protective Film*</td></tr></tbody></table> <p><b>-OR if cracks and/or yellow discoloration <u>ARE</u> found-</b></p> <p>Check fuel filter flange. Cracks and/or yellow discoloration <u>ARE</u> found; install protective film.</p> <p><u>U.S. only:</u> Attach picture showing cracks and/or yellow discoloration to Doc-It located on warranty online.</p> <p><u>Canada only:</u> Attach picture showing cracks and/or yellow discoloration to the Repair order.</p> <p>Labor operation: 7249 20 99                      60 T.U.</p> <table border="1"><thead><tr><th><u>Quantity</u></th><th><u>Part Number</u></th><th><u>Part Description</u></th></tr></thead><tbody><tr><td>4.00</td><td>N 90965001</td><td>Socket head bolt</td></tr><tr><td>1.00</td><td>N 91040702</td><td>Socket head bolt</td></tr><tr><td>1.00</td><td>8R0863385</td><td>Protective Film*</td></tr></tbody></table> <p><b>Continue to next page</b></p>		<u>Quantity</u>	<u>Part Number</u>	<u>Part Description</u>	4.00	N 90965001	Socket head bolt	1.00	N 91040702	Socket head bolt	1.00	8R0863385	Protective Film*	<u>Quantity</u>	<u>Part Number</u>	<u>Part Description</u>	4.00	N 90965001	Socket head bolt	1.00	N 91040702	Socket head bolt	1.00	8R0863385	Protective Film*
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4.00	N 90965001	Socket head bolt																							
1.00	N 91040702	Socket head bolt																							
1.00	8R0863385	Protective Film*																							

**-OR if Leaks ARE found-**

Check fuel filter flange. Leaks ARE found. Replace fuel filter flange.

Labor operation: 2031 19 99 150 T.U.

<u>Quantity</u>	<u>Part Number</u>	<u>Part Description</u>
4.00	N 90965001	Socket head bolt
1.00	N 91040702	Socket head bolt
1.00	7L8919679	Fuel filter with flange*
1.00	1J0919133B	Seal Ring

**Criteria I.D.**

8R (Audi Q5)

**-if cracks and/or yellow discoloration ARE NOT found-**

Check fuel filter flange. Cracks, leaks, and/or yellow discoloration NOT found; install protective film.

Labor operation: 7248 19 99 60 T.U.

<u>Quantity</u>	<u>Part Number</u>	<u>Part Description</u>
2.00	8E5886373	Grommet
1.00	8R0863385	Protective Film*

**-OR if cracks and/or yellow discoloration ARE found-**

Check fuel filter flange. Cracks and/or yellow discoloration ARE found; install protective film.

U.S. only: Attach picture showing cracks and/or yellow discoloration to Doc-It on warranty online.

Canada only: Attach picture showing cracks and/or yellow discoloration to the Repair order.

Labor operation: 7248 20 99 60 T.U.

<u>Quantity</u>	<u>Part Number</u>	<u>Part Description</u>
2.00	8E5886373	Grommet
1.00	8R0863385	Protective Film*

**-OR if Leaks ARE found-**

Check fuel filter flange. Leaks ARE found. Replace fuel filter flange.

Labor operation: 2066 19 99 150 T.U.

<u>Quantity</u>	<u>Part Number</u>	<u>Part Description</u>
2.00	8E5886373	Grommet
1.00	8E0201263G	Quick coupling piece cap
1.00	8R0919679C	Fuel filter with flange*
1.00	1J0919133B	Seal Ring

## Customer Letter Example (USA)

<MONTH YEAR>

<CUSTOMER NAME>

<CUSTOMER ADDRESS>

<CUSTOMER CITY STATE ZIPCODE>

This notice applies to your vehicle: <VIN>

NHTSA: 16V660

**Subject: Safety Recall 20W9 – Fuel Pump Flange  
Certain 2009-2012 Model Year Audi Q5 and Certain 2007-2012 Model Year Audi Q7**

Dear Audi Owner,

This notice is sent to you in accordance with the National Traffic and Motor Vehicle Safety Act. Audi has decided that a defect, which relates to motor vehicle safety, exists in certain 2009-2012 model year Audi Q5 and certain 2007-2012 model year Audi Q7 vehicles. Our records show that you are the owner of a vehicle affected by this action.

- What is the issue?** On certain vehicles, the fuel pump flange may develop fine cracks or fissures, which could result in a fuel leak. Leaking fuel, in the presence of an ignition source, could lead to a fire causing injury and/or damage to property.
- What will we do?** To correct this defect, your authorized Audi dealer will apply a butyl protective film to the fuel pump flange. If cracks are present, the fuel pump flange will be replaced. This work will take about one hour to complete and will be performed for you free of charge.
- What should you do?** Your dealer will have parts available to begin repairing vehicles affected by this recall starting on November 30, 2016. Please contact your authorized Audi dealer at that time to schedule this recall repair. For your convenience, you can also visit [www.audiusa.com](http://www.audiusa.com) and click on the "Find a Dealer" link to locate a dealer near you and schedule this service.
- Precautions you should take** If you smell fuel in the vehicle, immediately contact the nearest authorized Audi dealer in order to have your vehicle inspected.
- Lease vehicles and address changes** If you are the lessor and registered owner of the vehicle identified in this action, the law requires you to forward this letter immediately via first-class mail to the lessee within ten (10) days of receipt. If you have changed your address or sold the vehicle, please fill out the enclosed prepaid Owner Reply card and mail it to us so we can update our records.
- Reimbursement of Expenses** If you have previously paid for repairs relating to the condition described in this letter, the enclosed form explains how to request reimbursement. We would be pleased to review your reimbursement request.
- Can we assist you further?** If your authorized Audi dealer fails or is unable to complete this work free of charge within a reasonable time, please contact Audi Customer Experience at 1-800-253-2834 or via our "Contact Us" page at [www.audiusa.com](http://www.audiusa.com).
- Checking your vehicle for open Recalls and Service Campaigns** To check your vehicle's eligibility for repair under this or any other recall/service campaign, please visit the **Recall/Service Campaign Lookup** tool at [www.audiusa.com](http://www.audiusa.com) and enter your Vehicle Identification Number (VIN).

If you still cannot obtain satisfaction, you may file a complaint with: The Administrator, National Highway Traffic Safety Administration, 1200 New Jersey Avenue, SE., Washington, DC 20590; or call the toll-free Vehicle Safety Hotline at 1-888-327-4236 (TTY: 1-800-424-9153); or go to <http://www.safercar.gov>.

We apologize for any inconvenience this matter may cause; however we are taking this action to help ensure your safety and continued satisfaction with your vehicle. Thank you for your continued loyalty!

Sincerely,

Audi Customer Protection

## Customer Letter Example (CANADA)

<MONTH YEAR>

<CUSTOMER NAME>

<CUSTOMER ADDRESS>

<CUSTOMER CITY STATE ZIPCODE>

**This notice applies to your vehicle:** <VIN>

**Subject: Safety Recall 20W9 – Fuel Pump Flange  
Certain 2009-2012 Model Year Audi Q5 and Certain 2007-2012 Model Year Audi Q7**

Dear Audi Owner,

This notice is sent to you in accordance with the requirements of the Motor Vehicle Safety Act. Audi has decided that a defect, which relates to motor vehicle safety, exists in certain 2009-2012 model year Audi Q5 and certain 2007-2012 model year Audi Q7 vehicles. Our records show that you are the owner of a vehicle affected by this action.

- What is the issue?** On certain vehicles, the fuel pump flange may develop fine cracks or fissures, which could result in a fuel leak. Leaking fuel, in the presence of an ignition source, could lead to a fire causing injury and/or damage to property.
- What will we do?** To help correct this defect, your authorized Audi dealer will apply a butyl protective film to the fuel pump flange. If cracks are present, the fuel pump flange will be replaced. This work will take about one hour to complete and will be performed for you free of charge.
- What should you do?** Your dealer will have parts available to begin repairing vehicles affected by this recall starting on November 30, 2016. Please contact your authorized Audi dealer at that time to schedule this recall repair.
- Precautions you should take** If you smell fuel in the vehicle, immediately contact the nearest authorized Audi dealer in order to have your vehicle inspected.
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- Reimbursement of Expenses** If you have previously paid for repairs relating to the condition described in this letter, the enclosed form explains how to request reimbursement. We would be pleased to review your reimbursement request.
- Can we assist you further?** If your authorized Audi dealer fails or is unable to complete this work free of charge within a reasonable time, please contact Audi Customer Relations Monday through Friday from 8AM to 8PM EST at 1-800-822-2834 or via our "Contact Audi Canada" page at [www.audi.ca](http://www.audi.ca).

We apologize for any inconvenience this matter may cause; however we are taking this action to help ensure your safety and continued satisfaction with your vehicle. Thank you for your continued loyalty!

Sincerely,

Audi Customer Protection

**NOTE**

Damages resulting from improper repair or failure to follow these work instructions are the dealer's responsibility and are not eligible for reimbursement under this action.

**Required Parts**

**Criteria 4L (Q7 Models)**

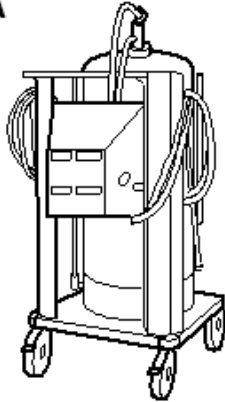
<u>Quantity</u>	<u>Part Number</u>	<u>Part Description</u>
4	N 909 650 01	Socket head bolt
1	N 910 407 02	Socket head bolt
1	8R0 863 385	Protective Film
-OR-		
1	7L8 919 679	Fuel filter with flange
1	1J0 919 133B	Seal Ring
4	N 909 650 01	Socket head bolt
1	N 910 407 02	Socket head bolt

**Criteria 8R (Q5 Models)**

<u>Quantity</u>	<u>Part Number</u>	<u>Part Description</u>
2	8E5 886 373	Grommet
1	8R0 863 385	Protective Film
-OR-		
1	8R0 919 679C	Fuel filter with flange
1	8E0 201 263G	Quick coupling piece cap
1	1J0 919 133B	Seal Ring
2	8E5 886 373	Grommet

## Required Tools

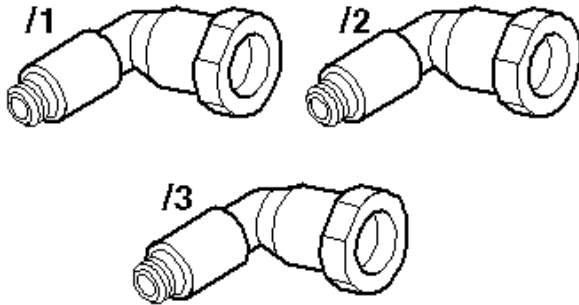
### VAS 5190 A



W00-10956

- Fuel Extracting Device -VAS5190A- (or equivalent)

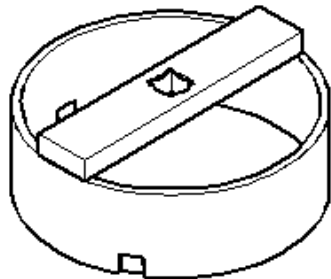
### VAS 5190



W00-10666

- Fuel Extraction - Adapter 1 - VAS5190 /1- from Fuel Extraction - Adapter Set -VAS5190 /10-

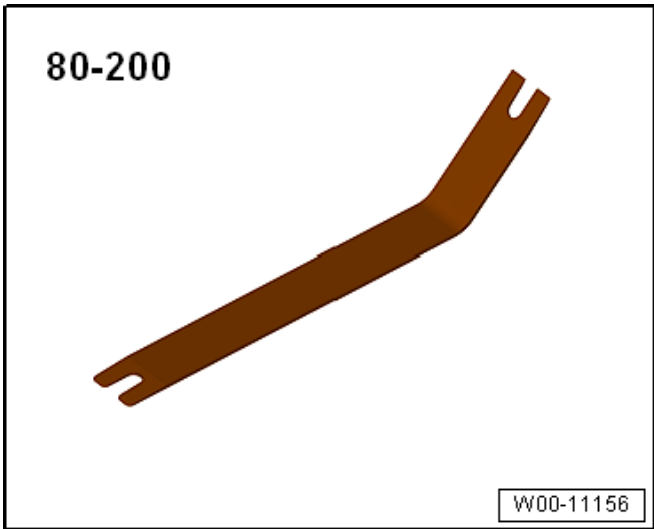
### T10202



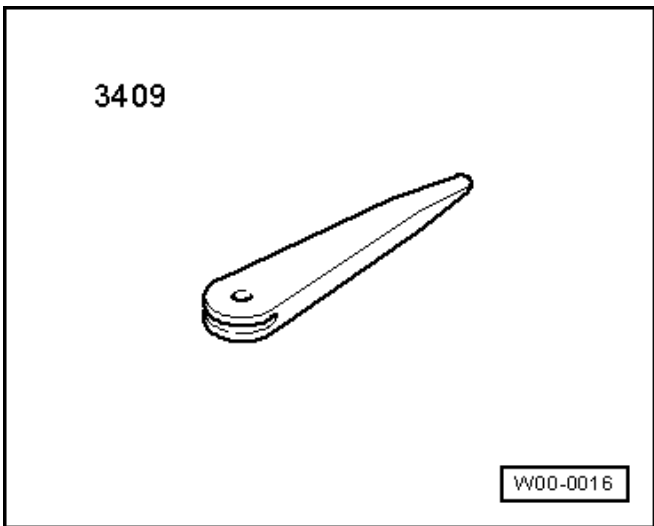
W00-1334

- Wrench - Fuel Sending Unit -T10202-

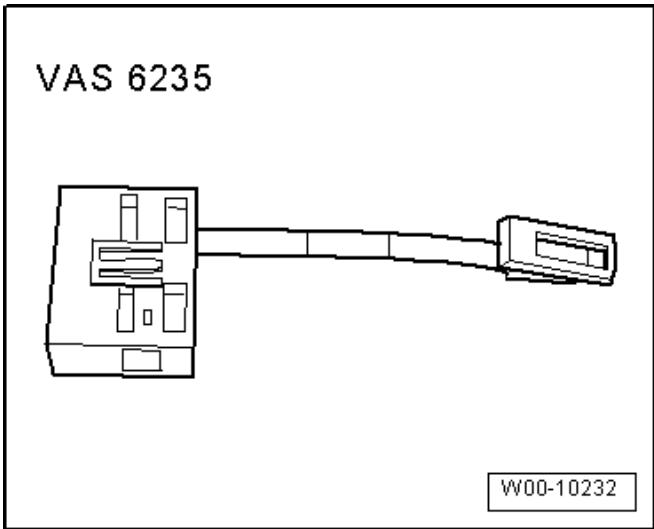




- Pry Lever -80-200- (or equivalent)

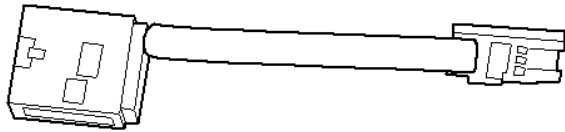


- Trim Removal Wedge -3409- (or equivalent)



- Airbag Lockout Connector -VAS 6235-

VAS 6280



W00-10422

- Airbag Lockout Connector -VAS 6280-

## Repair Instruction

### Section A - Check for Previous Repair

Applicable criteria ID(s)	Campaign/Action Status
01 ← <b>2</b>	Open ← <b>1</b>

**EXAMPLE**

- Enter the VIN in Elsa and proceed to the “Campaign/Action” screen.

#### TIP

On the date of repair, print this screen and keep a copy with the repair order.

- Confirm the Campaign/Action is open <arrow 1>. If the status is closed, no further work is required.
- Note the Applicable Criteria ID <arrow 2> for use in determining the correct work to be done and corresponding parts associated.

**Proceed to Section B for Audi Q7 (criteria 4L).**

**Proceed to Section E for Audi Q5 (criteria 8R).**

## Section B – Repair Procedure, Performing work on Audi Q7 (criteria 4L)

### WARNING

Risk of injury. Refer to “Warning and Safety Precautions”, found in **Appendix A** at the end of this document.

### NOTE

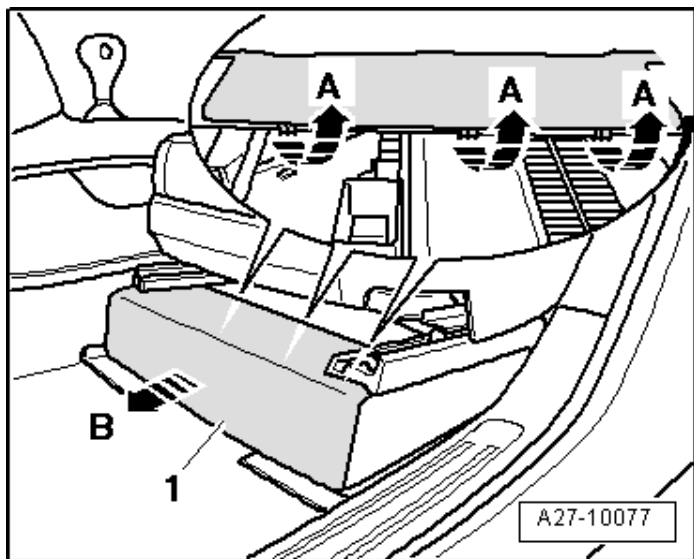
Due to variations in vehicle equipment and options, the steps/illustrations in this work procedure may not identically match all affected vehicles.



- Check the vehicle fuel level displayed on the instrument cluster <1>.
- Record the vehicle fuel level on the repair order.

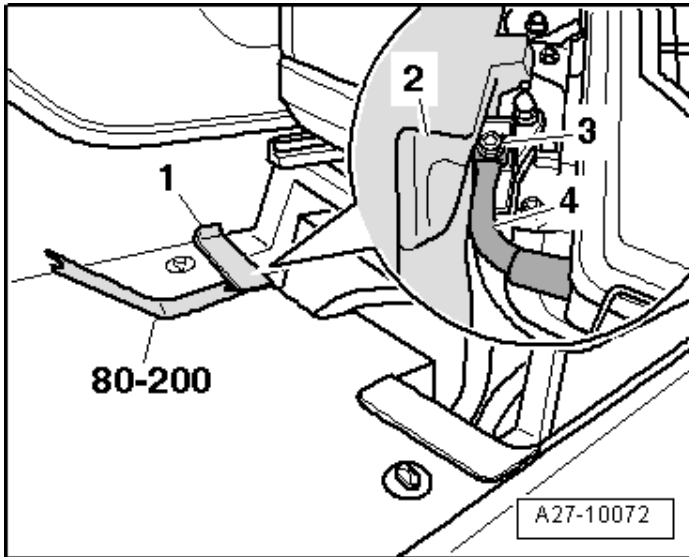
### NOTE

If the fuel level in the vehicle is at or below ½ tank, then it is possible to perform all operations in this bulletin without extracting any fuel using the Fuel Extracting Device -VAS5190A-. Record the fuel level before continuing on to battery disconnection.



Perform battery disconnect:

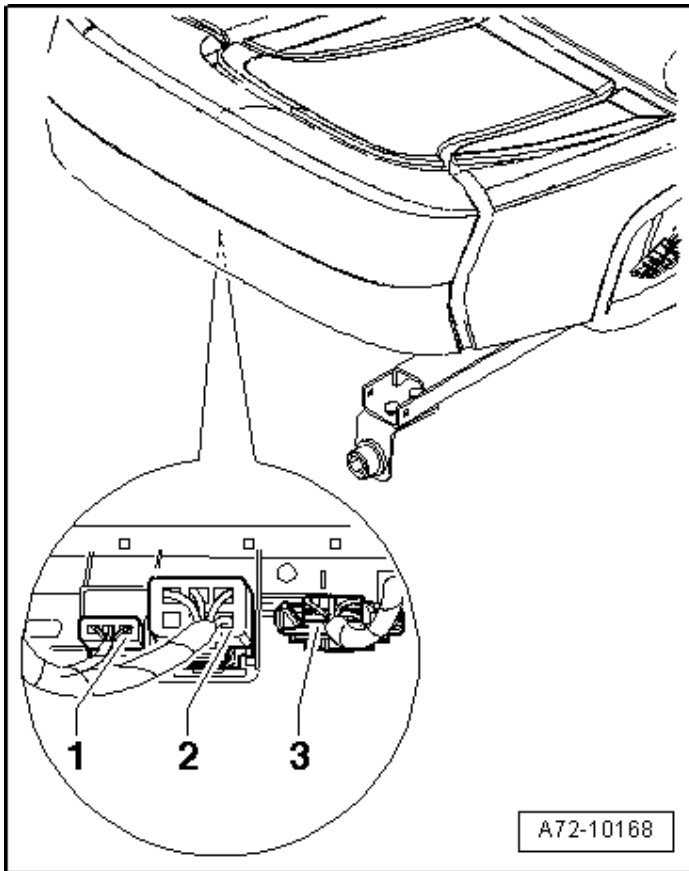
- Position driver's seat as far back as possible. Use the entire seat adjustment range to do this.
- Switch off the ignition.
- Reach under seat and release retaining clips on back side of cover <1> in direction of arrows <A>.
- Then remove cover in direction of arrow <B> from driver's seat console.



- Pry cover <1> with Pry Lever -80-200- (or equivalent) from floor covering.
- Raise floor covering <2> slightly in ground wire area.
- Remove nut <3>, remove and isolate ground wire <4> from ground point.

**NOTE**

- The battery must be disconnected before removing fuel from the vehicle. If fuel removal is required and the battery is not disconnected, it is possible to experience fuel level sender faults upon completion of this campaign.
- Consequential diagnosis or damage resulting from failure to disconnect the battery is not covered under this campaign.

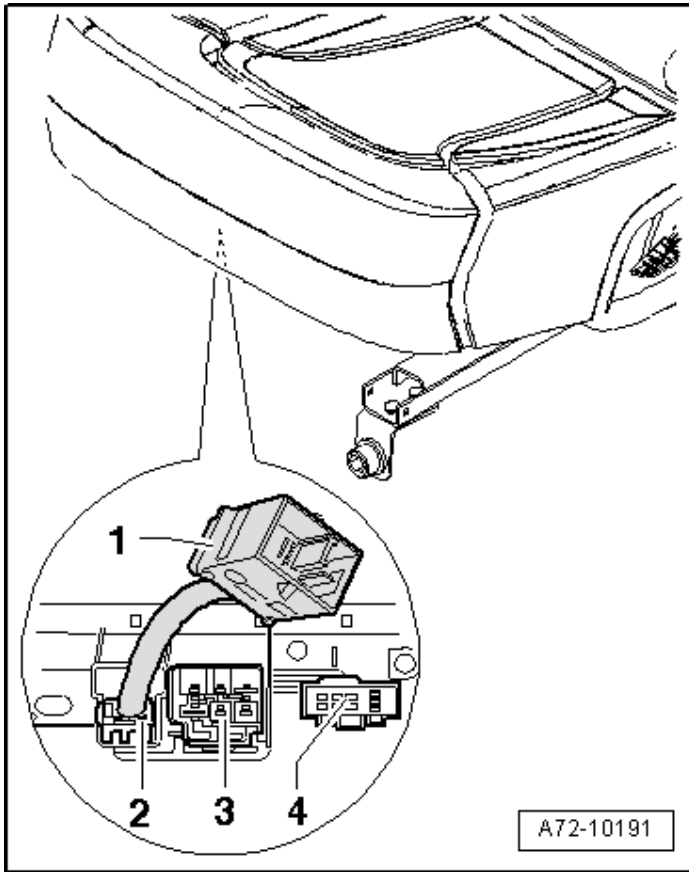


- Create photos or sketches of left rear under seat wiring location securing and routing.
- Remove seat heating connectors <2> and <3>.

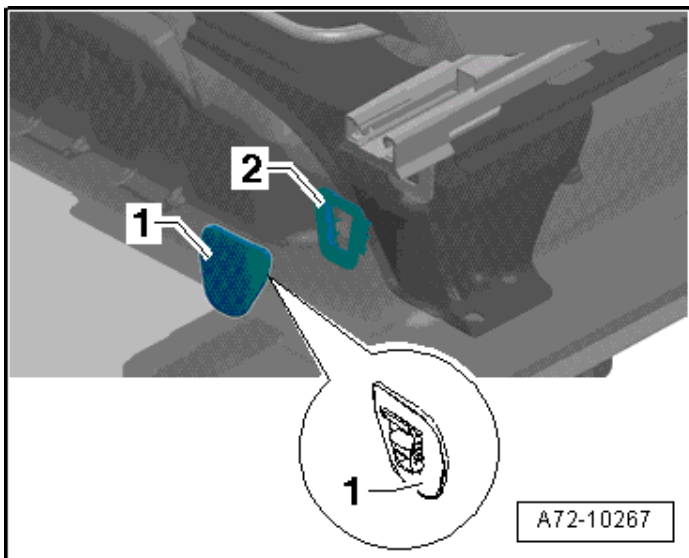
**WARNING**

Before handling airbag units (for example, disconnecting electrical connector), the person handling it must “discharge static electricity”. This can be done by touching the door striker, for example.

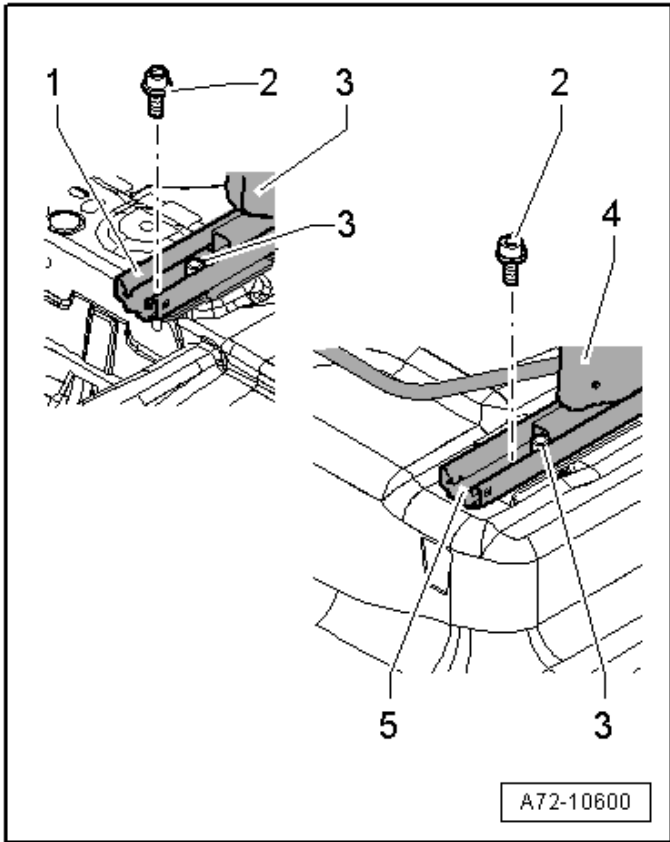
- Remove yellow airbag connector <1>.



- Connect Airbag Lockout Adapter -VAS6235- or Airbag Lockout Adapter -VAS6280- to airbag connector.
- Ensure airbag adapter engages correctly.
- Unclip wiring cable guide at connector station on seat.



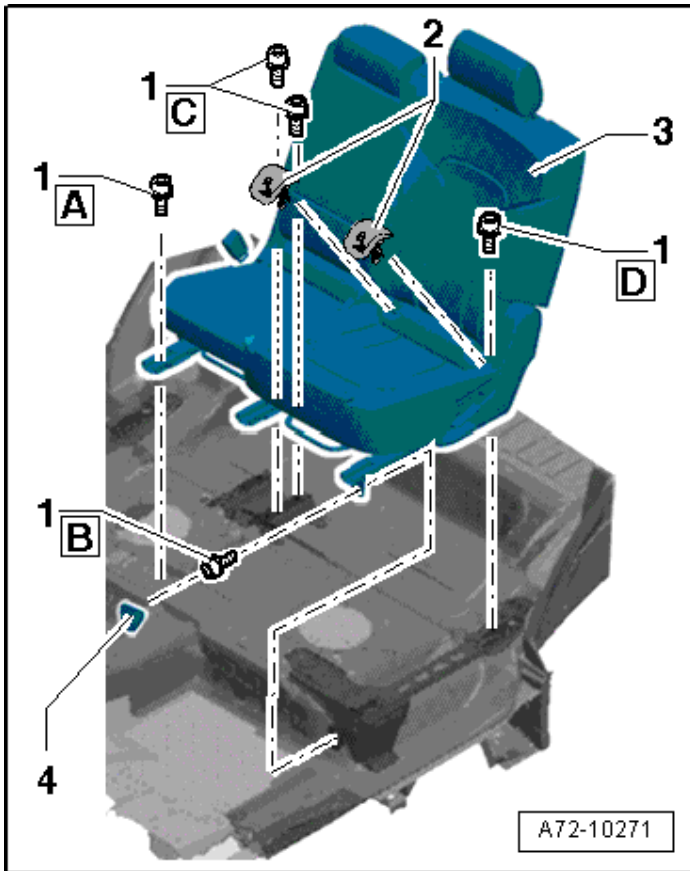
- Remove seat rail cover trim <1> using Trim Removal Wedge -3409- (or equivalent).
- Pry seat rail cover <1> at sides out of frame <2>.



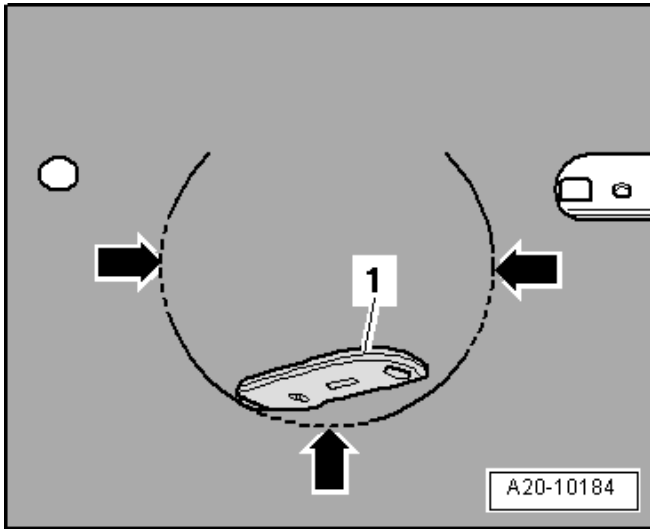
- Remove the seat rail stop bolts <2> (if required).

**TIP**

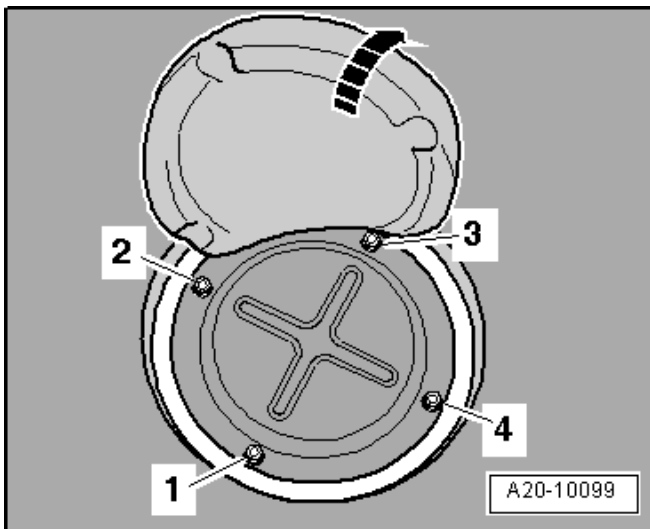
- The removal of the seat rail stop bolts will allow the seat frame to slide forward enough to gain access to the rear seat frame mounting bolts if the vehicle is not equipped with a third row entry assist handle.
- If the vehicle is equipped with a third row entry assist handle on the rear of the second row backrest, lift the third row entry assist handle and fold the seat to the full forward position to gain access to the rear seat bolts.



- Remove the second row front seat frame bolts <1A, 1B>.
- Slide the seat frame forward using the third row entry assist handle (if equipped), or slide the seat forward beyond the seat rail stop bolts to gain clear access to and remove the rear seat frame bolts <1C (x2) and 1D>.
- Lift seat frame assembly <3> out of the vehicle.



- Cut the floor covering along the perforation <arrows> on the left side with a carpet knife <1>.



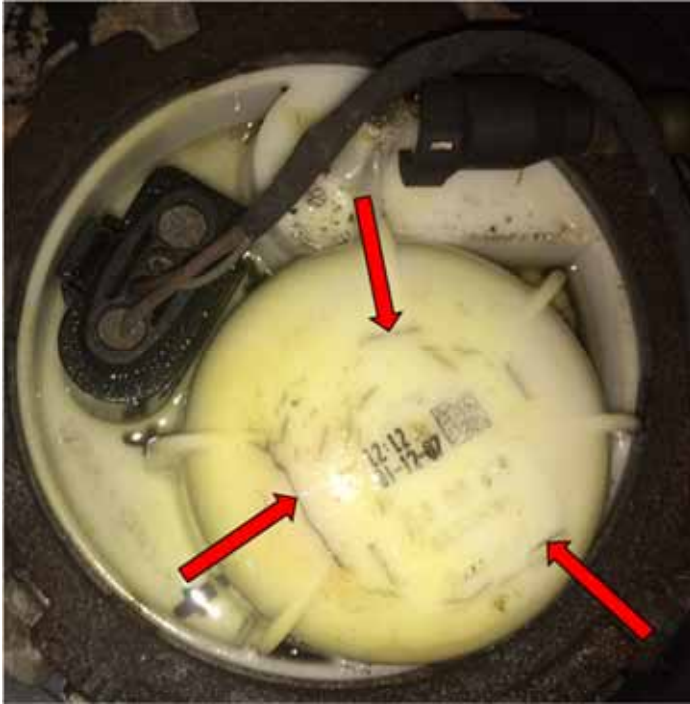
- Fold the floor covering to the side in direction of <arrow>.
- Remove screws <1> through <4> and remove left locking flange cover.



- Clean top of fuel filter with suitable plastic cleaner.

**! NOTE**  
 Use a suitable cloth to apply the plastic cleaner; do not spray the plastic cleaner directly onto the flange.





- Check the entire top area of the fuel pump flange for leaks.
- Document if there are leaks, cracks <arrows> and/or yellow discoloration on the repair order for inclusion in the SAGA claim.
  - Take picture showing the presence of leaks, cracks <arrows> and/or yellow discoloration and provide to warranty administrator.

**NOTE**

It is imperative that the warranty administrator is made aware of these findings in order to properly claim the repair.

- If there is a visible presence of leaking fuel, proceed to **Section D and Replace the Fuel Filter Flange**, all others continue to the next step.



- If there are no signs of leaking present, but there **ARE cracks and/or discoloration present** <circles>;
- Apply protective film as shown. Start application from the center and work the protective film towards the outside edges of the fuel pump flange taking care to eliminate air gaps or bubbles under the film.

Part Number	Part Description
8R0 863 385	Protective Film

- Use care when applying protective film so that no dust or dirt comes in contact with the adhesion side of the film.

**Continue to Section C. If NO cracks and/or yellow discoloration were found, continue to the next step.**





- If there are **NO** cracks and/or yellow discoloration present, apply the protective film as shown in the next step.



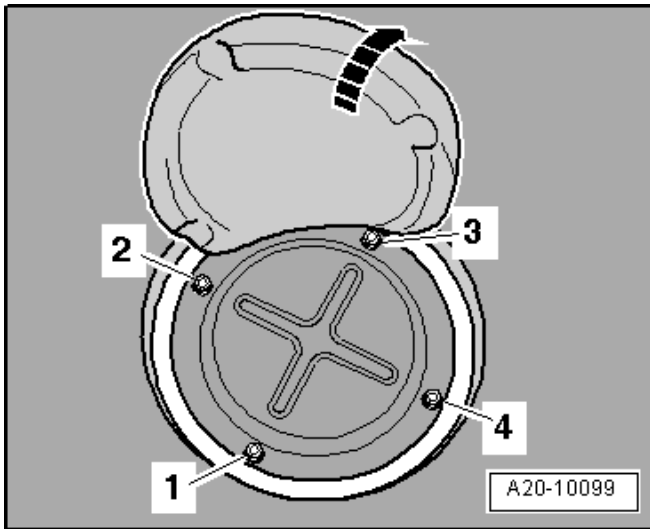
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Part Number	Part Description
8R0 863 385	Protective Film

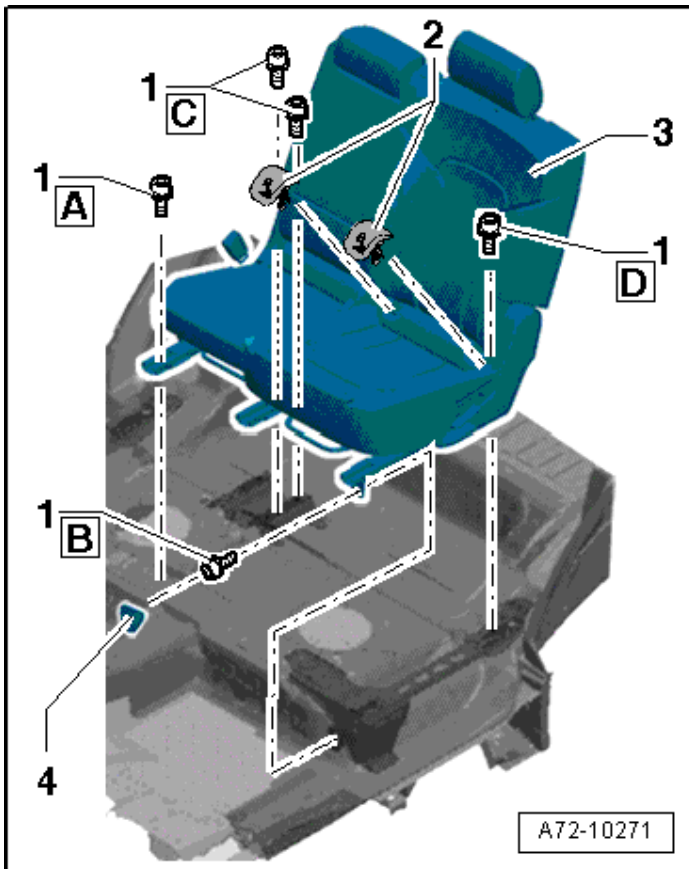
- Use care when applying protective film so that no dust or dirt comes in contact with the adhesion side of the film.

**Continue to Section C.**

## Section C – Repair Procedure, Reinstalling Seat Frame on Audi Q7 (criteria 4L)

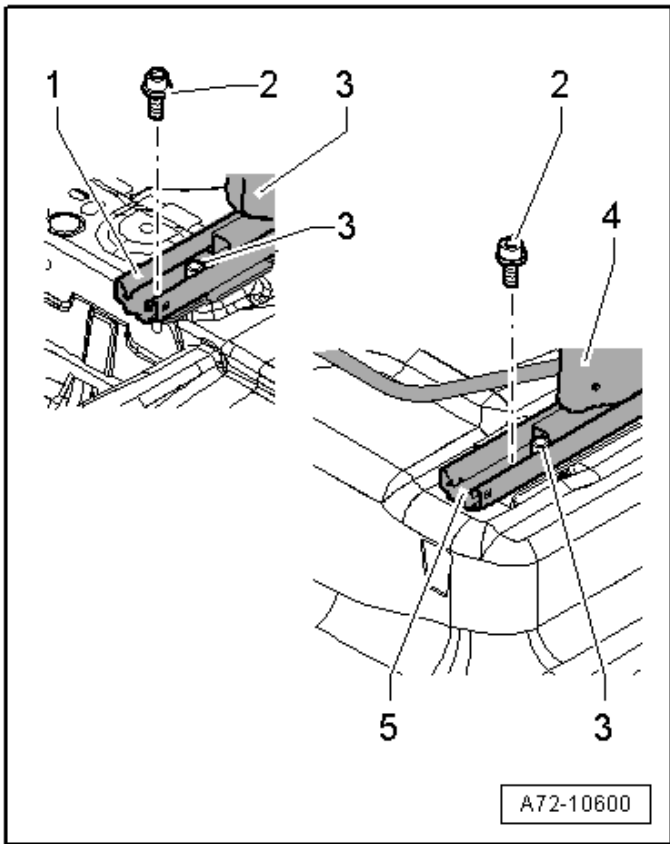


- Reinstall left locking flange cover and reinstall screws <1> through <4>.
- Fold the floor covering carpet closed to conceal the locking flange cover.

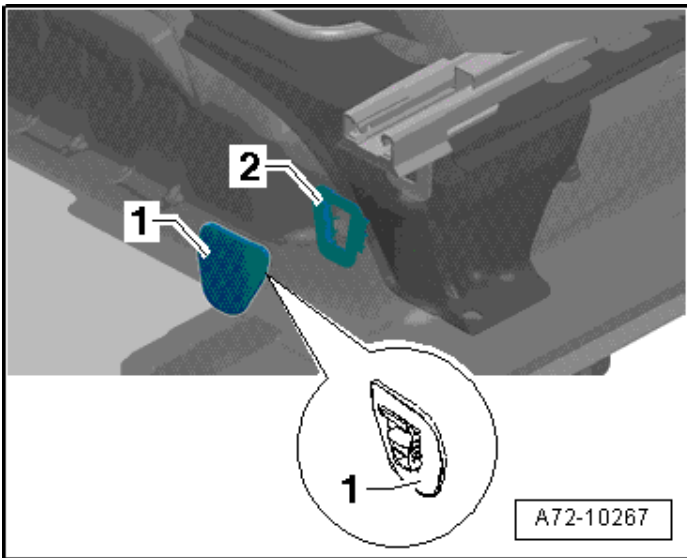


- Reinstall seat frame assembly <3> into the vehicle.
- Reinstall new seat frame bolts <1A, 1B, 1C (x2), and 1D>. Tighten bolts to 50 Nm.

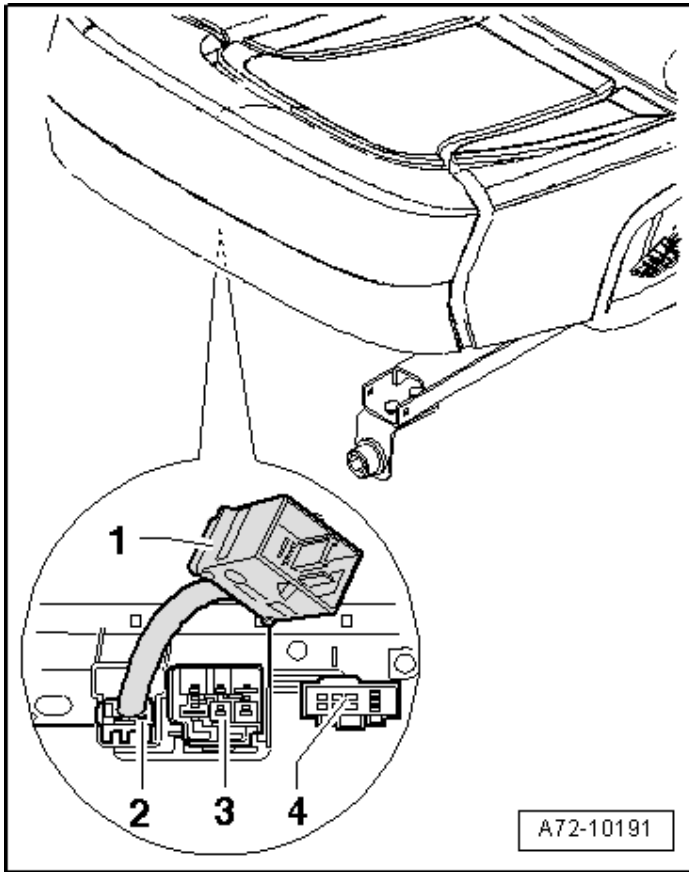
Part Number	Part Description
N 909 650 01	Socket head bolt (x4)
N 910 407 02	Socket head bolt (x1)



- Reinstall the seat rail stop bolts <2> (if removed). Tighten the bolts to 20 Nm.



- Reinstall seat rail cover trim <1> onto seat frame <2>.

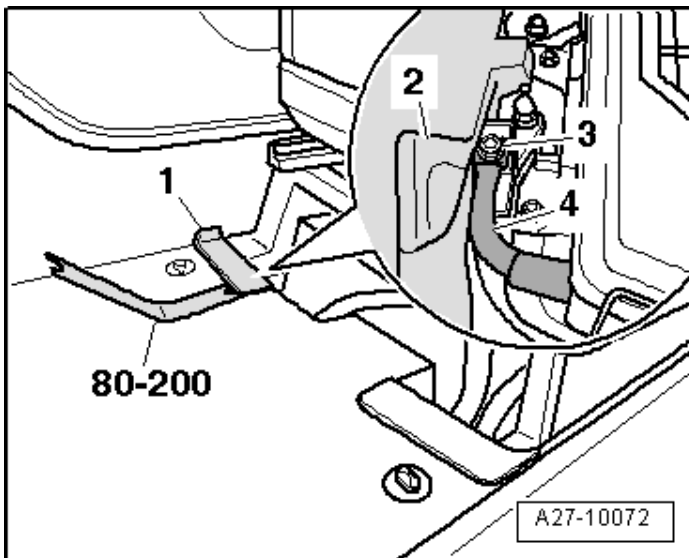


- Using the previously taken photos or sketches of under seat wiring location securing and routing, reinstall the wiring and route accordingly.
- Reinstall seat heating connectors <3> and <4>.

#### **⚠ WARNING**

Before handling airbag units (for example, reconnecting electrical connector), the person handling it must “discharge static electricity”. This can be done by touching the door striker, for example.

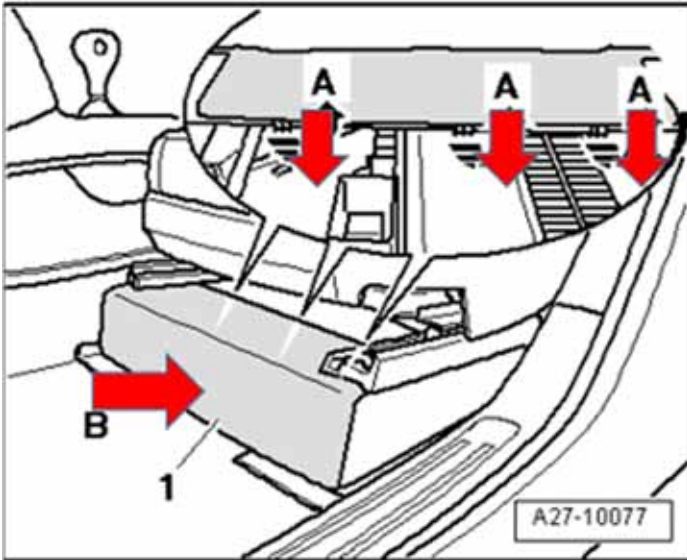
- Remove Airbag Lockout Adapter -VAS6235- or Airbag Lockout Adapter -VAS6280- <1> from airbag connector.
- Reinstall yellow airbag connector <2>.



#### **! NOTE**

- The connector for the Battery Monitoring Control Module must be connected when connecting the ground wire to the ground point on vehicles with Battery Monitoring Control Module -J367-.
- If the connector on the Battery Monitoring Control Module -J367- comes loose when connecting the battery, wait 30 seconds before connecting it again.

- Reconnect battery ground.
- To connect, position ground wire terminal clamp on ground point and tighten nut to 20 Nm.



- Reinstall battery cover assembly.
- Check all the DTC memories and erase the “under voltage” entry using -Vehicle Diagnostic Tester-.

**NOTE**  
 After connecting the power supply, the ABS warning lamp may only go out after the vehicle has been driven a few yards.



- Turn on the ignition.
- Cycle the ignition four to five times to prime the fuel system and verify there are no DTC's present and no warning lamps illuminated.
- Start the vehicle to verify fuel system functionality. Make sure to check for any fuel leaks before delivering the vehicle to the customer.
- Check the vehicle fuel level displayed on the instrument cluster <1>.
- Refer to the vehicle fuel level on the repair order and verify the proper operation of the fuel level sensor.
- Reset customer convenience basic settings (i.e. one touch windows, instrument cluster clock, etc.).

**Repair Complete - Proceed to section H.**

## Section D – Repair Procedure, Replacing Fuel Filter Flange on Q7 (criteria 4L)

- When replacing the fuel filter flange, an ATA WEB ticket <arrow> will need to be created to order the fuel filter flange.

Technical Assistance

Create Ticket

Ticket Information

Concern Type: Select a concern type

Technician Email: [text box]

Technician Name: Kevin Quinn

Dealer Code: [text box]

Vehicle Information

VIN: [text box]

Make: [text box]

Model: [text box]

Year: [text box]

Engine Code: [text box]

Transmission Code: [text box]

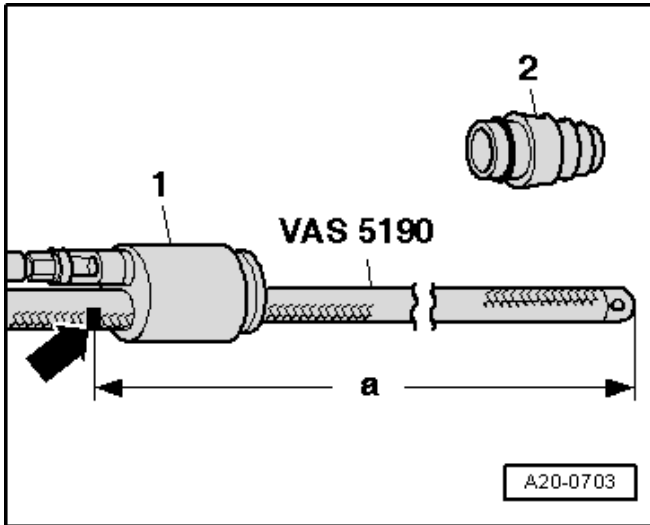
Contact Details: \* If you call our toll-free number, we will respond to you within 2 business hours.

- When creating the WEB ticket, be sure to enter a contact phone number at the bottom of the Technician's Questionnaire.



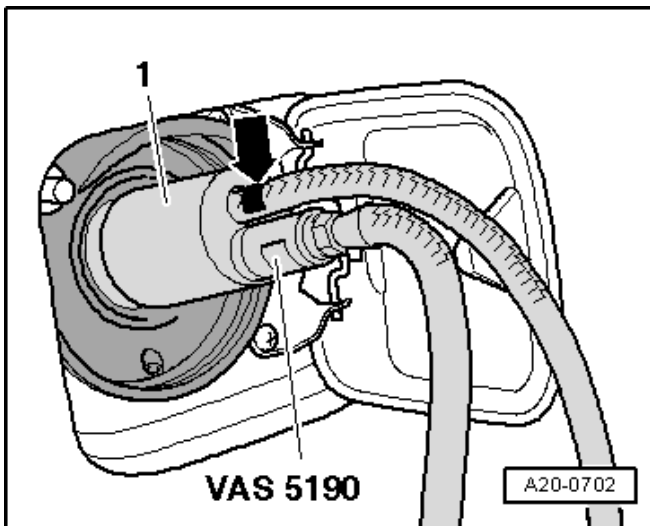
- If the fuel filter flange was leaking fuel, inspect the wiring harness connector carefully for damage due to fuel wicking into the weather pack seals.
- If damage to the weather pack seal and/or wiring harness is discovered, include pictures in the same Technical Assistance WEB ticket and follow the direction of the Technical Assistance Consultant for performing the repair.

- Attach photo(s) to the ATA case clearly indicating the filter flange is leaking and if present damage to the wiring harness. An ATA Consultant will review the photos and then update the ATA case with a case code.
- Provide this case code to your parts department so the filter flange can be ordered by your parts department.
  - If required order the necessary wiring harness repair parts at this time.



**If leaks were found the fuel pump flange requires replacement:**

- Drain fuel down to approximately ½ of a tank using Fuel Extraction Unit -VAS5190-, if necessary.
- Remove the cone piece <2> from the shaft piece <1> on the Fuel Extraction Unit -VAS5190-.
- Using insulating tape, apply a mark <arrow> on hose at length <a> = 177.5 cm from end of suction hose.

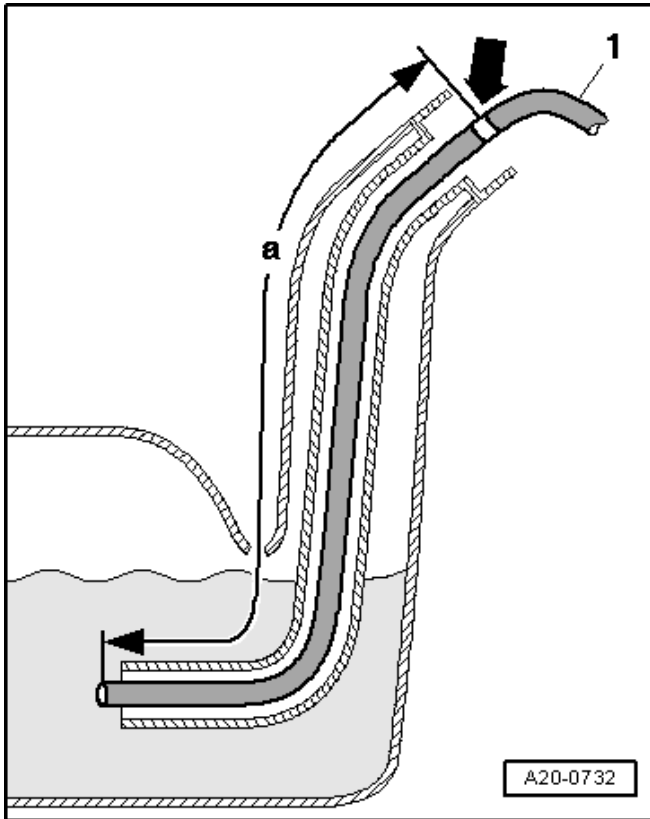


- Remove the fuel cap from the fuel filler tube.
- Install the adapter <1> for the Fuel Extraction Unit -VAS5190- on the fuel tank filler tube.
- Push the suction hose into fuel tank until the mark applied earlier <arrow> is positioned on shaft piece.

**⚠ CAUTION**

Proper safety equipment is required. Wear safety goggles and protective gloves when working with gasoline, or any other fuel.





**NOTE**

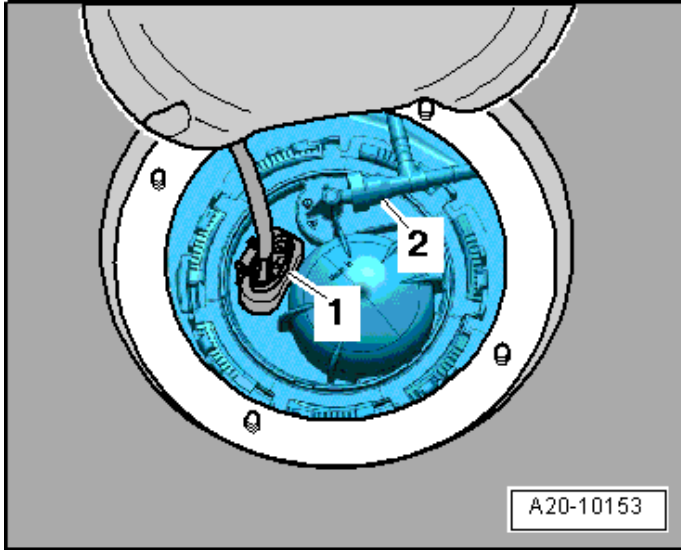
- If using a siphoning device without shaft piece, proceed principally in the same manner.
- In this case, make a mark <arrow> on the hose <a> = 140 cm from end of suction hose using insulating tape. The suction hose is inserted correctly when the marking applied earlier aligns with the lip of the fuel filler neck.
- If the hose can only be inserted with difficulty, coat it thinly with engine oil. Never use lubricants containing silicon.

- Empty fuel tank to approximately ½ full via fuel filler tube.
- Carefully pull out the suction hose.

**NOTE**

Accurately record the amount of fuel in liters removed from the vehicle using the sightglass measurement viewport on the side of the -VAS 5190- Fuel Extraction Unit. It is required to return to the fuel tank precisely the amount of fuel removed from the fuel tank. Failure to do so may result in fuel sending unit faults.

- Disconnect filter flange electrical connector <1>.
- Remove the fuel tank vent line connector <2> from the filter flange by squeezing the release tab between the finger and thumb, pushing in on the connector, and then pulling off.



**NOTE**

- Do not use pliers or other tools on the fuel line connector or damage to the connector may occur.
- Damage to the fuel line connector due to improper removal/installation may cause the connector to not fasten securely upon reinstallation, causing a leak.
- A damaged fuel line connector requires replacement of the fuel line.
- Consequential damage to the fuel line connector due to improper removal/installation is not covered under this campaign.



- If required, repair the wiring harness connector, wiring, and weather pack seals as instructed by Technical Assistance.

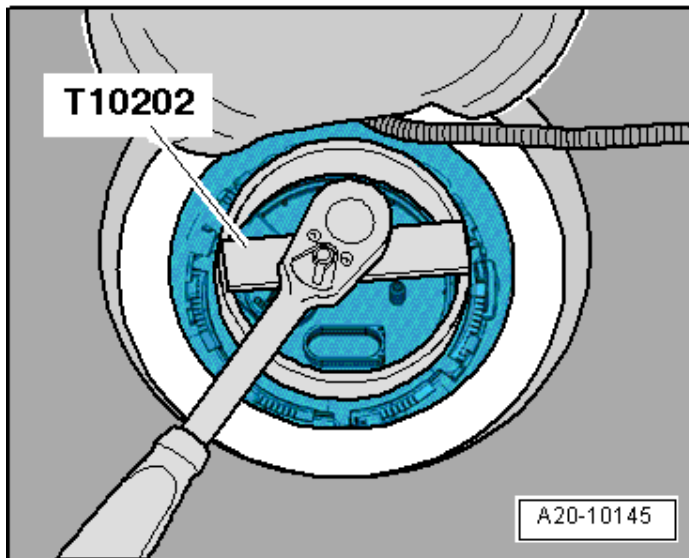


**⚠ WARNING**

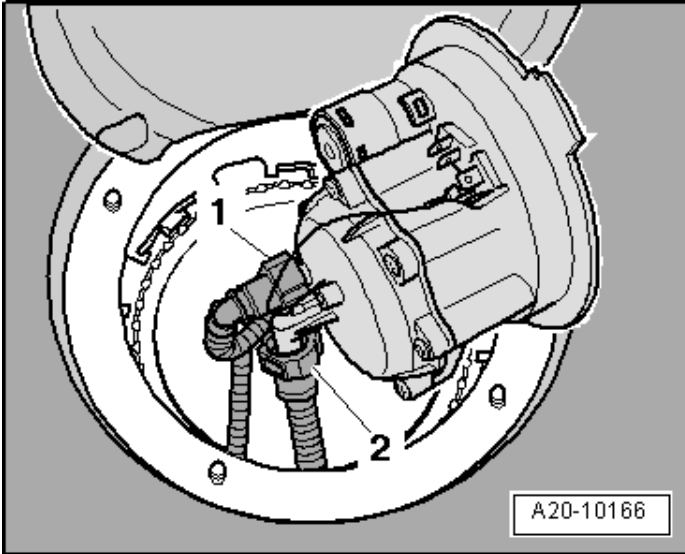
There is a risk of fuel leaking out from the filled fuel filter flange. Lay cloths, rags, or other absorbent material below to catch the leaking fuel.

**⚠ CAUTION**

Dispose of all absorbent material contaminated with gasoline or any other fuel in accordance with Local and Federal guidelines.



- Using Fuel Sending Unit wrench -T10202-, remove the locking ring from the fuel pump flange by turning counterclockwise.



- Disconnect fuel lines <1> and <2> from left locking flange by squeezing the release tab between the finger and thumb, pushing IN on the connector, then pulling OFF.
- Remove left locking flange with fuel filter housing and seal.

**NOTE**

- Do not use pliers or other tools on the fuel line connector or damage to the connector may occur.
- Damage to the fuel line connector due to improper removal/installation may cause the connector to not fasten securely upon reinstallation, causing a leak.
- A damaged fuel line connector requires replacement of the fuel line.
- Consequential damage to the fuel line connector due to improper removal/installation is not covered under this campaign.

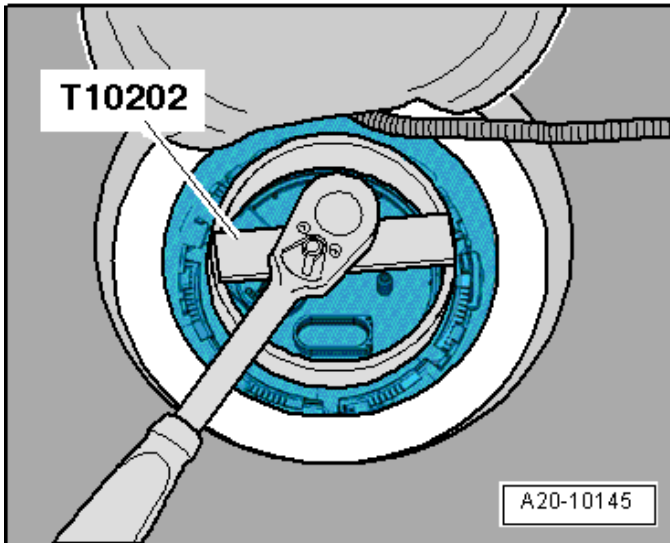


- Install new fuel filter flange assembly into fuel tank.
- Discard the old fuel filter flange seal ring, and use new fuel filter flange ring seal. Install the seal dry. Do not lubricate the seal.

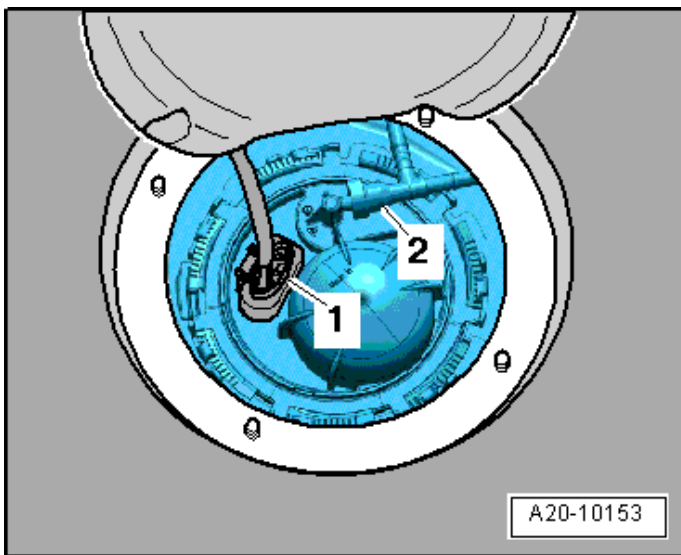
Part Number	Part Description
7L8 919 679	Fuel Filter Flange
1J0 919 133B	Seal Ring

**NOTE**

The new replacement fuel pump flange <part number 7L8 919 679> does **NOT** require the installation of the protective film.



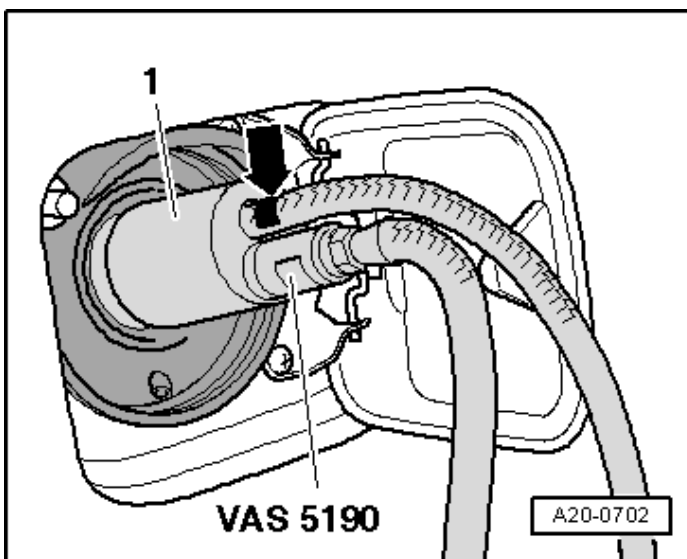
- Reinstall the fuel filter flange locking ring by turning clockwise. Torque the locking flange to 110 Nm.



- Reconnect the filter flange electrical connector <1> and push into place until you feel and hear the audible click.
- Reconnect the fuel tank vent line connector <2> and push into place until you feel and hear the audible click.

**NOTE**

After installation gently push, then pull, on both the electrical connector and fuel vent line connector to verify they are securely attached.



- If fuel was removed due to replacement of the fuel filter flange, dispense recovered fuel contained in the -VAS 5190- Fuel Extracting Device back into the vehicle fuel tank at this time.

**CAUTION**

Refer to the previously recorded fuel measurement obtained from the -VAS 5190- Fuel Extraction Unit sightglass. Be certain to refill the vehicle fuel tank with the same amount of fuel that was originally extracted from the vehicle or fuel sending unit faults may occur.

- Proceed to **Section C to Reinstall the Seat Frame.**

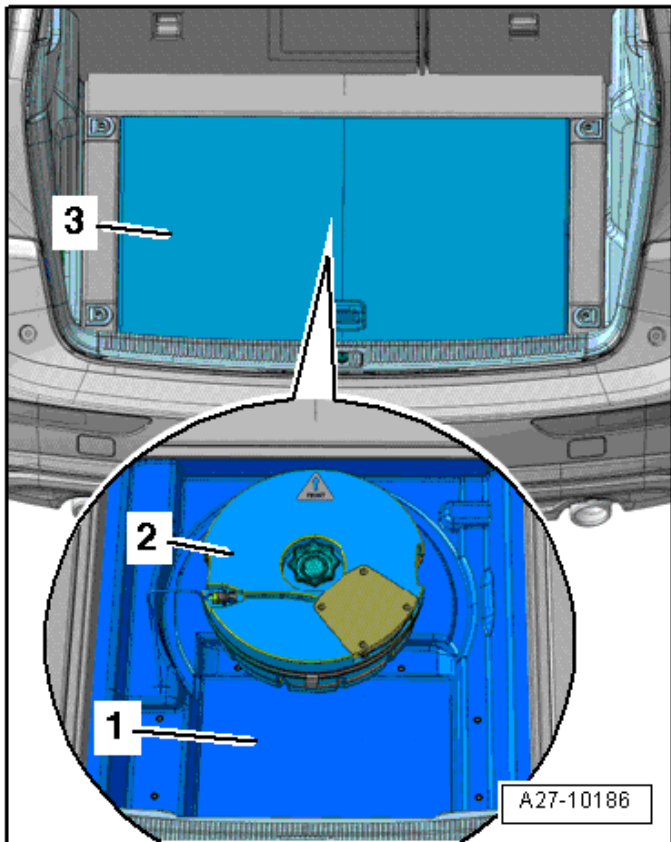
## Section E – Repair Procedure, Performing work on Audi Q5 (criteria 8R)



- Check the vehicle fuel level displayed on the instrument cluster <A>.
- Record the vehicle fuel level on the repair order.

### ! NOTE

If the fuel level in the vehicle is at or below  $\frac{1}{4}$  tank, then it is possible to perform all operations in this bulletin without extracting any fuel using the Fuel Extracting Device -VAS5190A-. Record the fuel level before continuing on to battery disconnection.

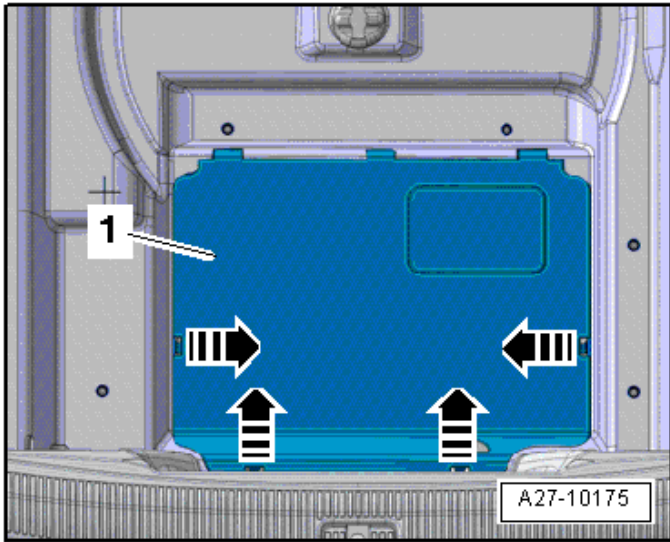


Perform battery disconnect:

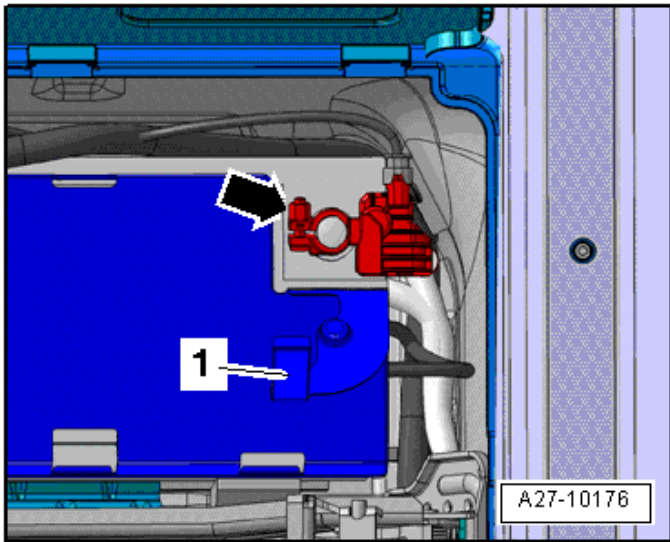
- Turn off the ignition and remove the key.
- Remove the luggage compartment floor covering <3>.
- Remove the dirt tray, if applicable.
- If equipped, remove the subwoofer <2>.
- Fold back the carpet <1> over the cover.

### ! NOTE

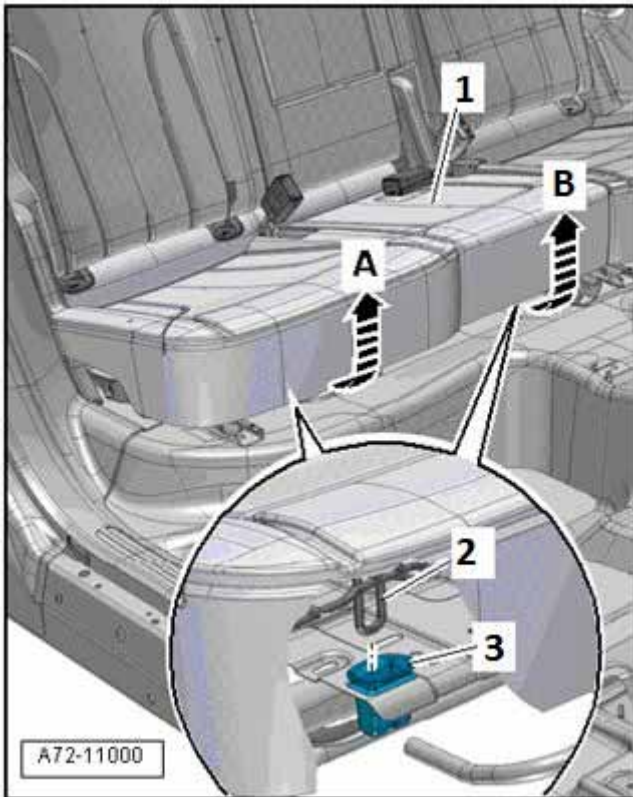
- The battery must be disconnected before removing fuel from the vehicle. If fuel removal is required and the battery is not disconnected, it is possible to experience fuel level sender errors upon completion of this campaign.
- Consequential diagnosis or damage resulting from failure to disconnect the battery is not covered under this campaign.



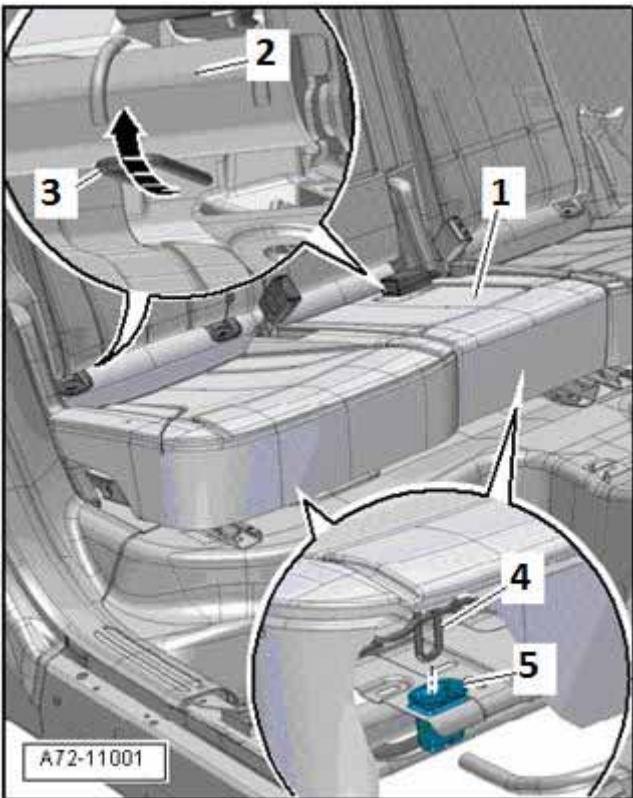
- Unlock the retaining tabs <arrows> and open the cover <1>.



- Open the cover <1> over the battery negative terminal.
- Loosen the nut several turns, remove and isolate the battery ground cable terminal <arrow> from the battery pole.



- Remove right (passenger side) rear seat cushion <A>.
- Lift up on the seat cushion <A> until the cushion frame <2> releases from the grommets <3>.
- Disconnect the seat heating electrical connector (if equipped).

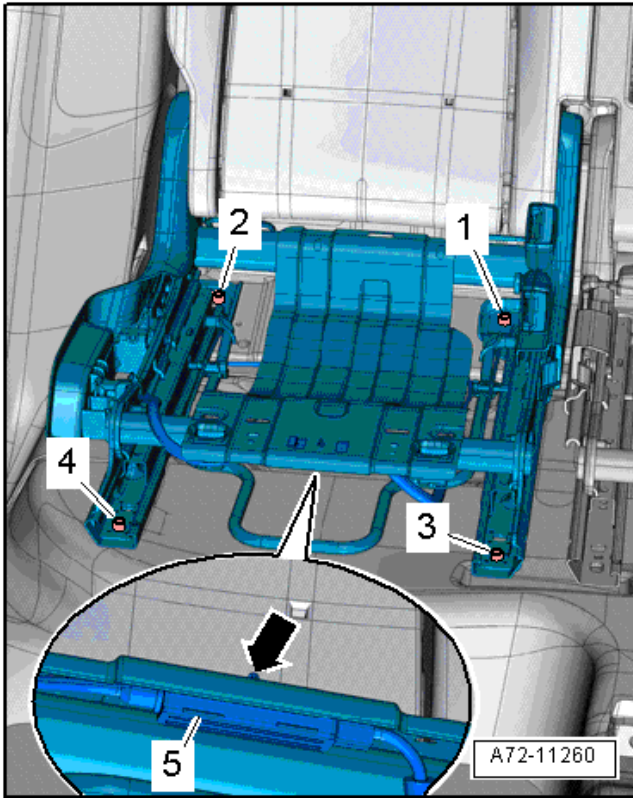


- Remove right rear cushion <2> by lifting upwards and pulling outward to remove the seat cushion.

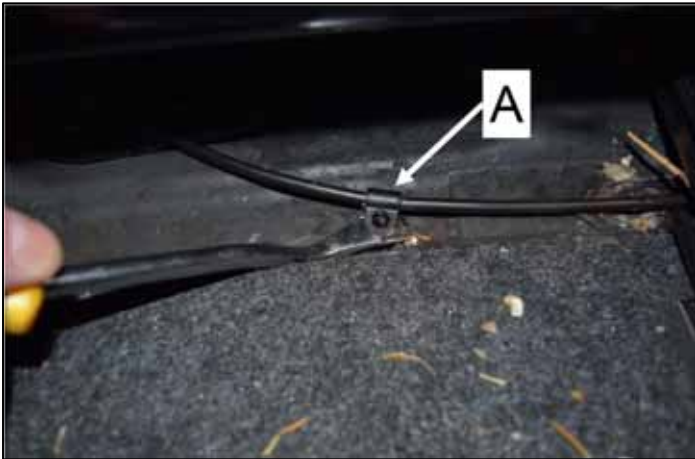
**CAUTION**

DO NOT remove the left side rear (drivers' side) seat cushion or frame assembly. It is only necessary to remove the right side (passenger side) cushion and frame to complete this operation.

Removal of the incorrect seat will require replacement of the seat grommets for proper reinstallation. This recall covers only two grommets <5> in the kit.



- Remove the four right rear seat frame bolts <1, 2, 3, and 4> using hand tools.

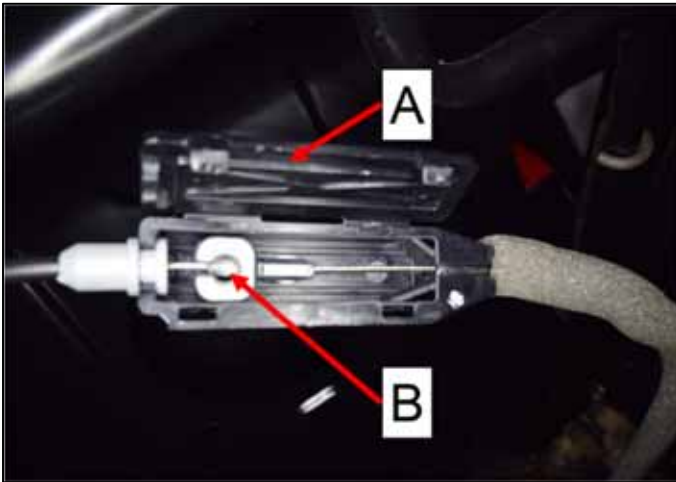


- For vehicles equipped with adjustable seat frames, slide the seat frame forward and unclip the seat frame adjustment cable from the threaded tab <A>.

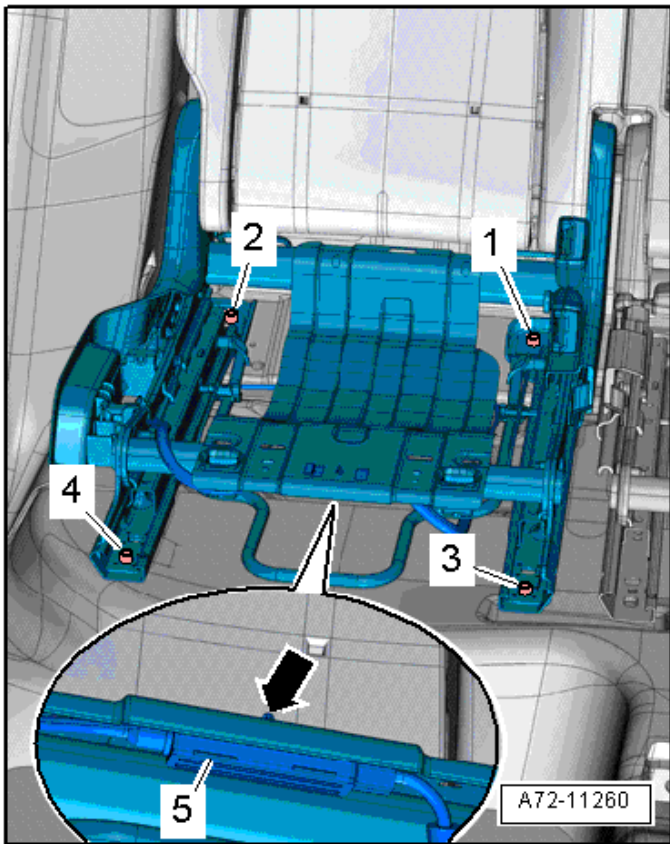


- Flip the seat frame up to gain access to the seat frame adjustment cable connector.
- Unclip the seat frame adjustment cable connector <A> from the seat frame (if equipped).

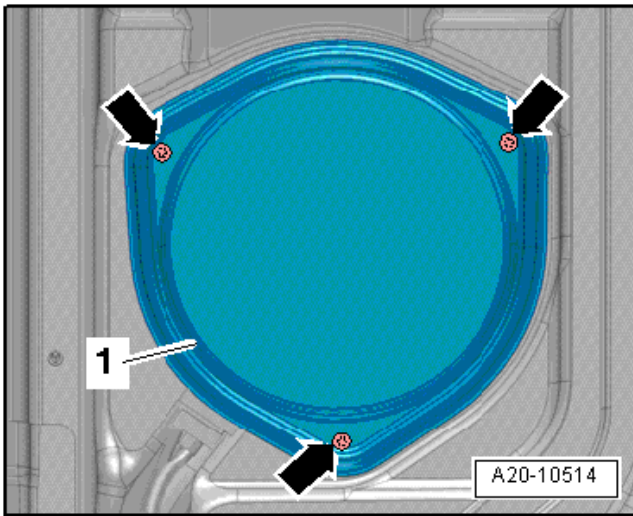




- Open the seat frame adjustment cable connector cover <A> using a small screwdriver or pick tool.
- Remove the cable from the adjustment cable cover and disconnect at the junction <B> (if equipped).



- Remove the right rear seat frame assembly from the vehicle.

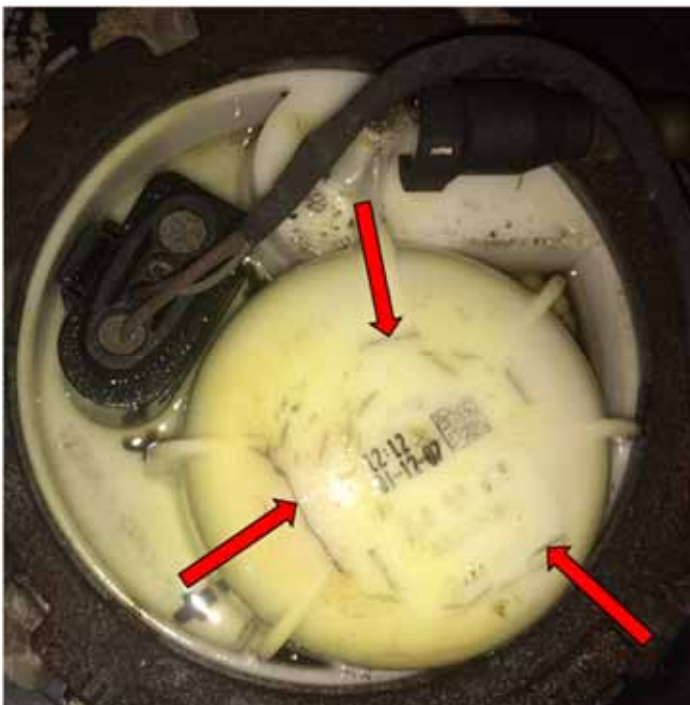


- Remove the fuel pump flange cover <1> by removing the three screws <arrows>.



- Clean top of fuel pump with suitable plastic cleaner.

**! NOTE**  
 Use a suitable cloth to apply the plastic cleaner; do not spray the plastic cleaner directly onto the flange.



- Check the entire top area of the fuel pump flange for leaks.
- Document if there are leaks or cracks <arrows> and/or yellow discoloration on the repair order for inclusion in the SAGA claim.
  - Take picture showing the presence of leaks or cracks and provide to the warranty administrator.

**! NOTE**  
 It is imperative that the warranty administrator is made aware of these findings in order to properly claim the repair.

- If there is a visible presence of leaking fuel, proceed to **Section G and Replace the Fuel Pump Flange.**



- If there are no signs of leaking present, but there **ARE cracks and/or yellow discoloration present** <circles>;
- Apply protective film as shown. Start application from the center and work the protective film towards the outside edges of the fuel pump flange taking care to eliminate air gaps or bubbles under the film.

Part Number	Part Description
8R0 863 385	Protective Film

- Use care when applying protective film so that no dust or dirt comes in contact with the adhesion side of the film.

**Proceed to Section F if cracks were found. If NO cracks and/or discoloration were found, continue to the next step.**



- If there are **NO** cracks and/or yellow discoloration present, apply the protective film as shown in the next step.



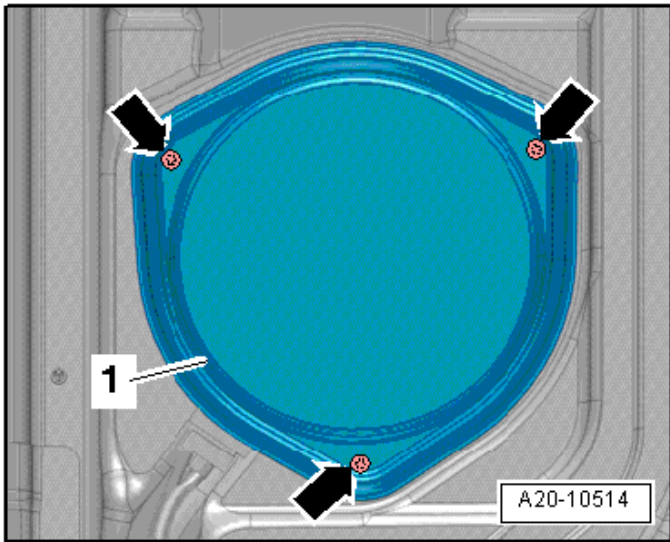
- Apply protective film as shown. Start application from the center and work the protective film towards the outside edges of the fuel pump flange taking care to eliminate air gaps or bubbles under the film.

Part Number	Part Description
8R0 863 385	Protective Film

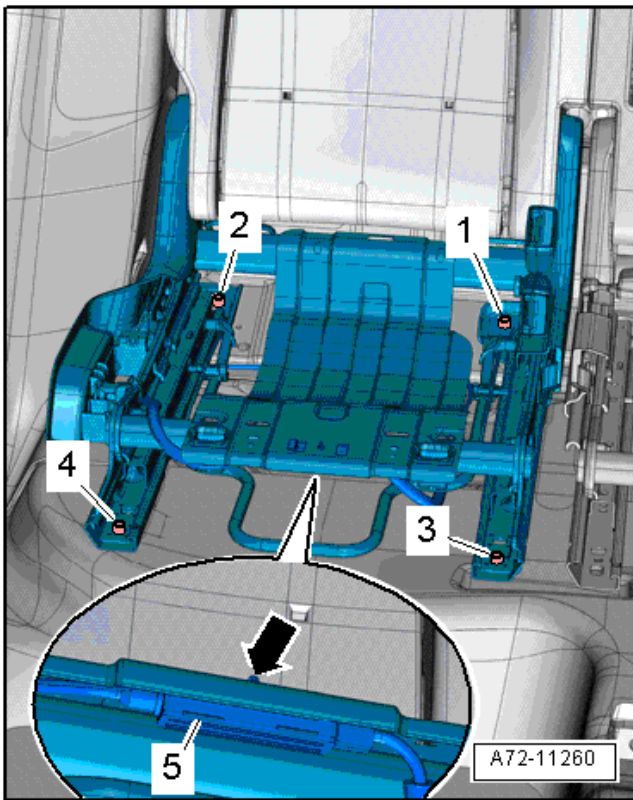
- Use care when applying protective film so that no dust or dirt comes in contact with the adhesion side of the film.

**Proceed to Section F.**

## Section F – Repair Procedure, Reinstalling Seat Frame on Audi Q5 (criteria 8R)



- Reinstall the fuel pump cover <1> by installing and tightening the three screws <arrows>.



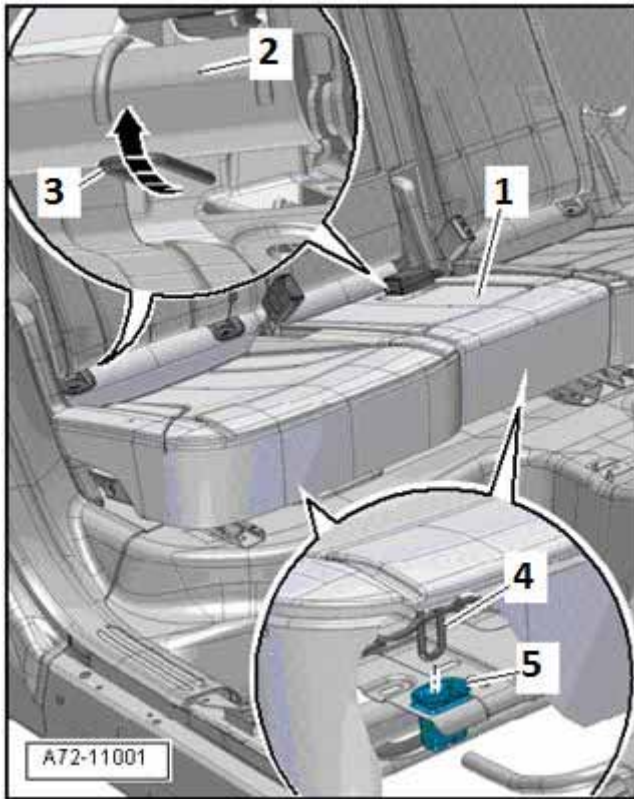
- Reinstall the seat frame.

### **i** TIP

Start bolt <1> by hand first.

The bolt holes in the seat frame for the other three bolts are elongated. Bolt hole <1> is not elongated. This will reduce any chance of cross threading a bolt.

- Torque the seat frame mounting bolts <1, 2, 3, and 4> to 50 Nm.



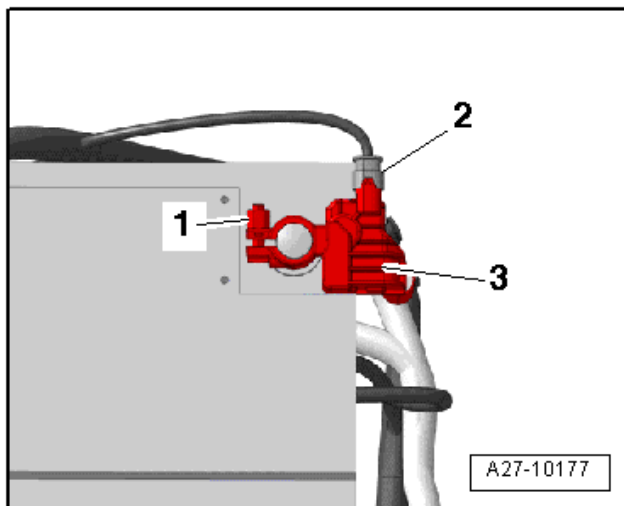
**CAUTION**

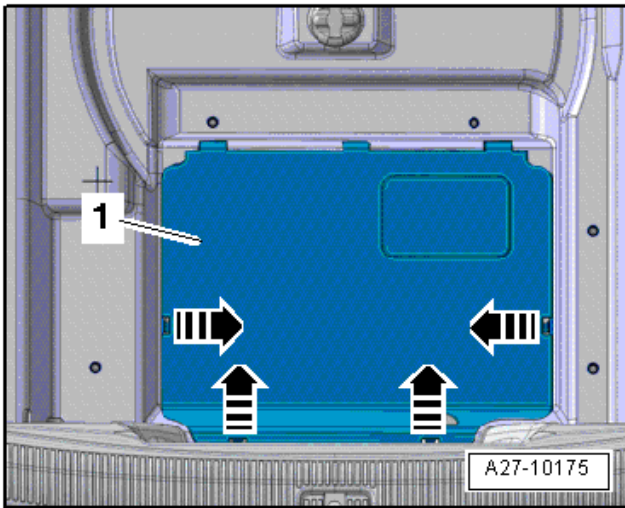
Replace the mounting grommets <5> each time the bench seat is removed. Do not reuse the grommets.

- Remove the mounting grommets <5> from the chassis, or the seat frame hooks <4>. The grommets will sometimes adhere to the seat frame during removal.
- Check the seat frame and chassis floor near the mounting plates for any deformation, and align it if necessary.
- Insert new mounting grommets into the chassis in the position shown <5>.

Part Number	Part Description
8E5 886 373	Grommet

- Verify proper alignment of the seat frame hooks <4> into the grommets <5>.
- Press the mounting hooks <4> into the grommets <5> until you hear them click into place.
- Disconnect the connector <2> from the Battery Monitoring Control Module -J367- <3>.
- Connect the battery ground cable terminal by hand to the battery negative terminal and tighten the nut <1> to 20 Nm.
- Reconnect the connector to the Battery Monitoring Control Module -J367- <2>.



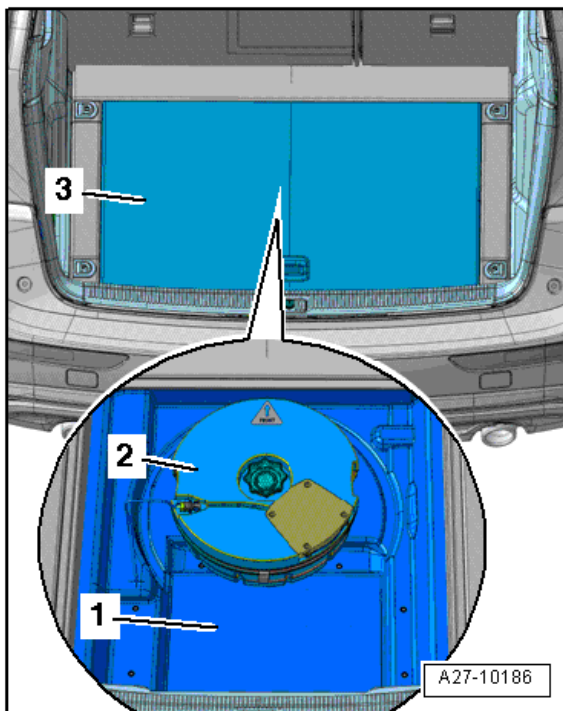


**When the battery is reconnected, the following steps must be performed:**

- Close access cover <1> and secure clips <arrows>.
- Check DTC memories of all control modules and erase any under voltage DTCs using the Vehicle Diagnostic Tester.

**NOTE**

After connecting the power supply, the ABS warning lamp may only go out after the vehicle has been driven a few yards.



- If equipped, reinstall the subwoofer <2>.
- Reinstall the dirt tray (if equipped), and reinstall the carpeting <1>.
- Reinstall the luggage compartment floor covering <3>.



- Turn on the ignition.
- Cycle the ignition four to five times to prime the fuel system and verify there are no DTCs present and no warning lamps illuminated.
- Start the vehicle to verify fuel system functionality. Make sure to check for any fuel leaks before delivering the vehicle to the customer.
- Check the vehicle fuel level displayed on the instrument cluster <A>.
- Refer to the vehicle fuel level on the repair order and verify the proper operation of the fuel level sensor, and that the correct amount of fuel has been returned to the vehicle from

the Fuel Extracting Device -VAS5190A- (if removed).

- Reset customer convenience basic settings (i.e. one touch windows, instrument cluster clock, etc.).
- Repair Complete - **Proceed to Section H.**

## Section G – Repair Procedure, Replacing Fuel Filter Flange on Audi Q5 (criteria 8R)

- When replacing the fuel filter flange, an ATA WEB ticket <arrow> will need to be created to order the fuel filter flange.

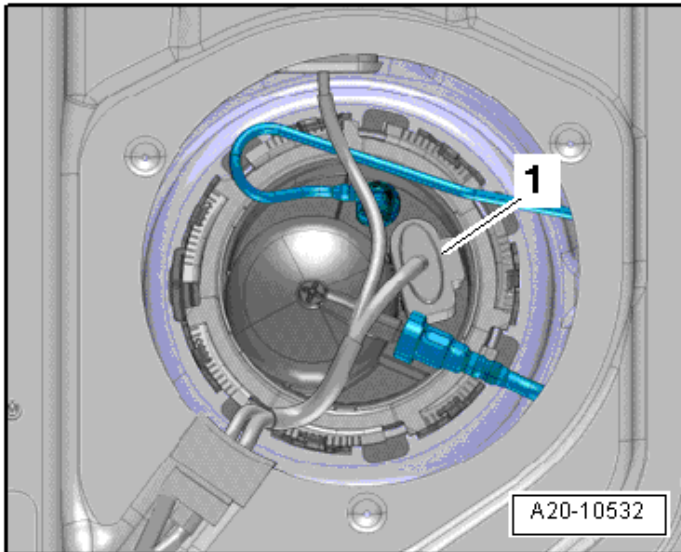
The screenshot shows the 'Create Ticket' form in the Technical Assistance system. The form is divided into 'Ticket Information' and 'Vehicle Information' sections. The 'Contact Options' field at the bottom left is highlighted with a red box, and a red arrow points to the 'Call call for web-responses (on 14-2 business hours)' option.

- When creating the WEB ticket, be sure to enter a contact phone number at the bottom of the Technician's Questionnaire.



- If the fuel filter flange was leaking fuel, inspect the wiring harness connector carefully for damage due to fuel wicking into the weather pack seals.
  - If damage to the weather pack seal and/or wiring harness is discovered, include pictures in the same Technical Assistance WEB ticket and follow the direction of the Technical Assistance Consultant for performing the repair.
- Attach photo(s) to the ATA case clearly indicating the filter flange is leaking and if present damage to the wiring harness. An ATA Consultant will review the photos and then update the ATA case with a case code.
  - Provide this case code to your parts department so the filter flange can be ordered by your parts department.
    - If required order the necessary wiring harness repair parts at this time.

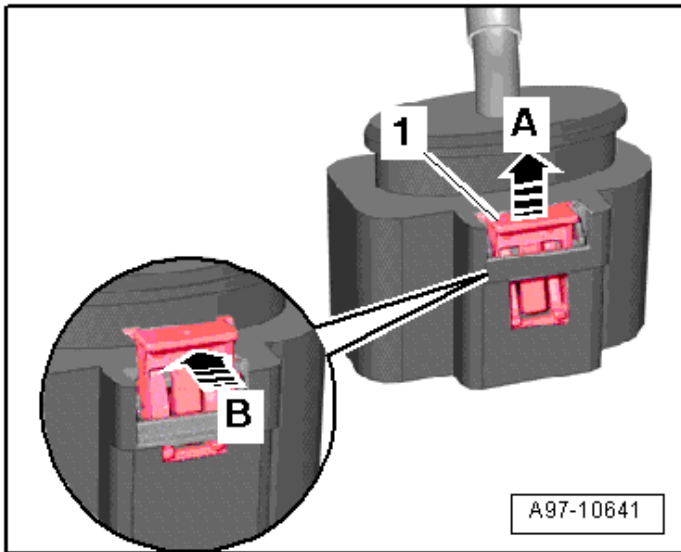




**If leaks were found the fuel pump flange requires replacement:**

- Clean and/or vacuum the area around the fuel pump opening to ensure no debris falls into the fuel tank during the repair.
- Disconnect the electrical connector on the top of the fuel pump assembly <1>.

**⚠ CAUTION**  
 Proper safety equipment is required. Wear safety goggles and protective gloves when working with gasoline, or any other fuel.



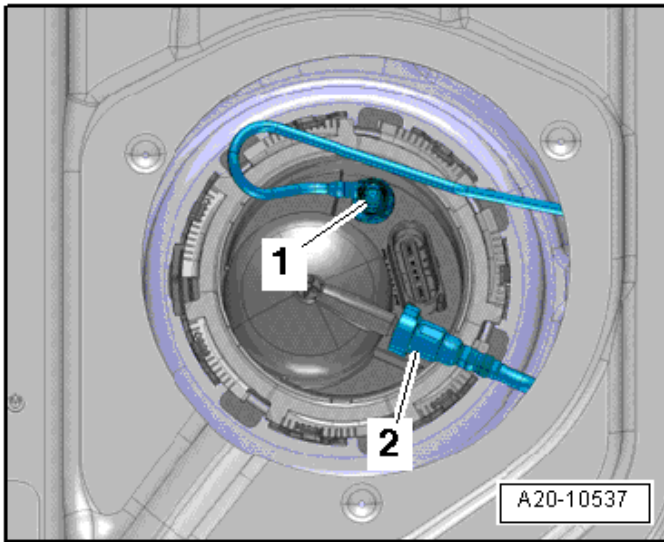
- To disconnect the connector, pull up <arrow A> on the red locking tab <1>, then depress the tab <B> inward following the direction of the <arrow B>.
- If the fuel filter flange was cracked and leaking, inspect the electrical connector for any potential damage to the sealing rings, wires, or contacts.

**! NOTE**  
 Due to clearance issues between the locking tab and the body of flange, a small pick tool can be used to aid in removal of the connector.



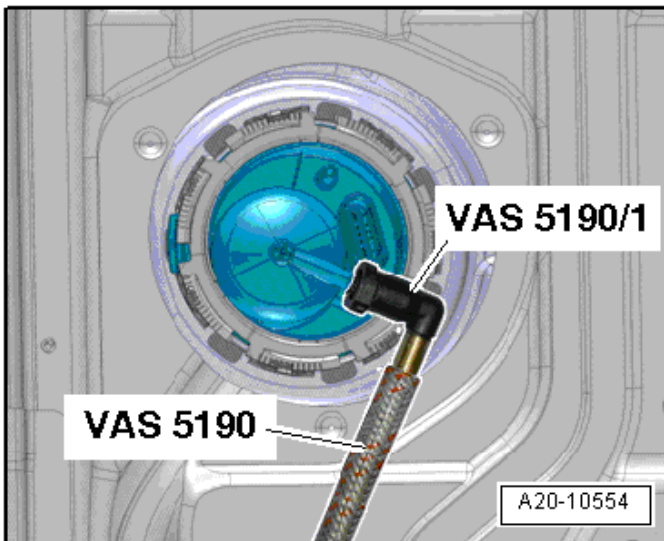


- If required, repair the wiring harness connector, wiring, and weather pack seals as instructed by Technical Assistance



- Remove the fuel line connector <2> from the locking flange by squeezing the release tab between the finger and thumb, pushing in on the connector, and then pulling the connector off.

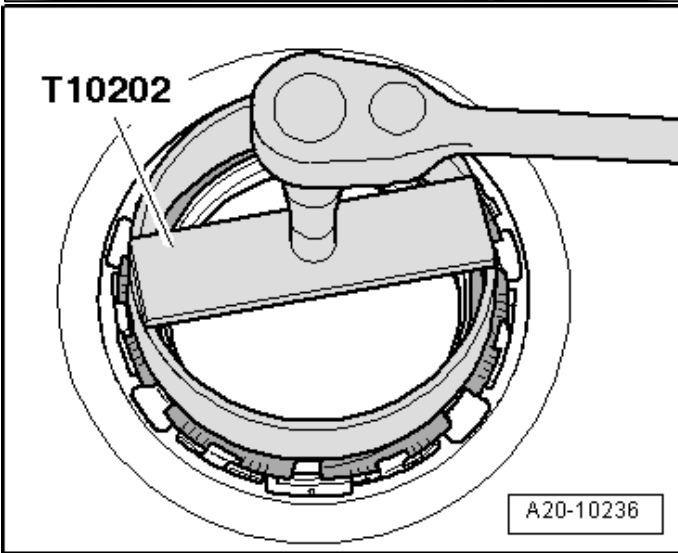
! NOTE	
<ul style="list-style-type: none"> <li>• Do not use pliers or other tools on the fuel line connector or damage to the connector may occur.</li> <li>• Damage to the fuel line connector due to improper removal/installation may cause the connector to not fasten securely upon reinstallation, causing a leak.</li> <li>• A damaged fuel line connector requires replacement of the fuel line.</li> <li>• Consequential damage to the fuel line connector due to improper removal/installation is not covered under this campaign.</li> </ul>	



**If required based on fuel level, remove fuel from the tank:**

- Connect the suction hose to the -VAS5190/1- on the sealing flange supply connection.
- Extract fuel until the vehicle retains approximately ¼ of a tank.
- Disconnect the -VAS5190/1- on the sealing flange by pressing the release button.
- Remove the -VAS5190/1- suction hose and re-install the tip.

! NOTE	
<p>Accurately record the amount of fuel in liters removed from the vehicle using the sightglass measurement viewport on the side of the -VAS 5190- Fuel Extraction Unit. It is required to</p>	



return to the fuel tank precisely the amount of fuel removed from the fuel tank. Failure to do so may result in fuel sending unit faults.

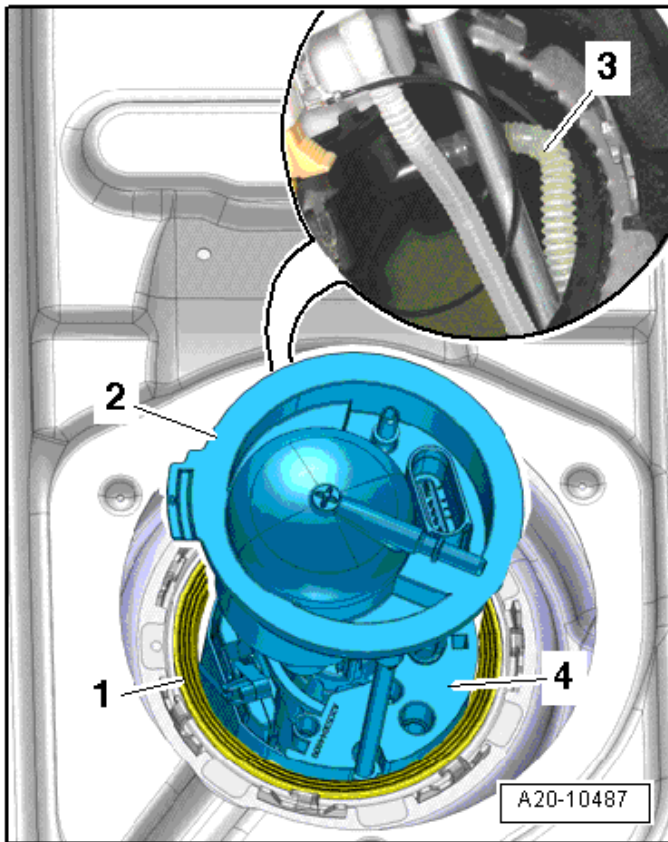
**⚠ WARNING**

There is a risk of fuel leaking out from the filled fuel filter flange. Lay cloths, rags, or other absorbent material around the fuel filter flange opening to catch the leaking fuel.

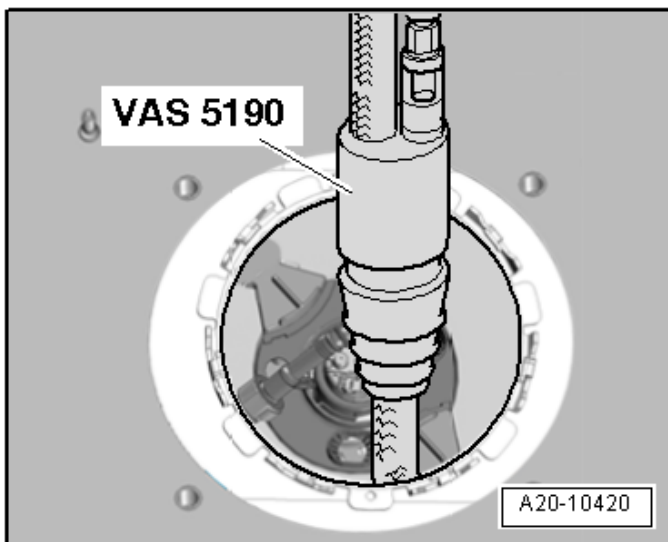
**⚠ CAUTION**

Dispose of all absorbent material contaminated with gasoline or any other fuel in accordance with Local and Federal guidelines.

- Using special tool -T10202-, remove the fuel pump flange lock ring by turning counterclockwise.



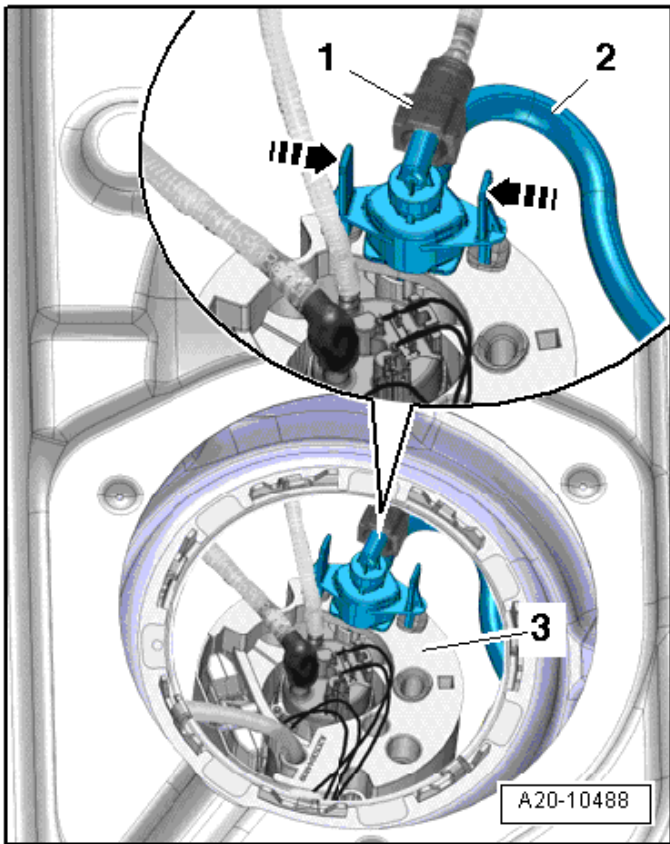
- Pull the fuel filter/sealing flange <2> out of the fuel tank slightly and remove the seal <1> for the sealing flange.
- Move the fuel filter/sealing flange toward the right side of the vehicle, reach into the fuel tank through the gap between the sealing flange and the opening and carefully guide the fuel line <3> out of the fuel tank.
- Remove the fuel pump flange <2> from the opening in the fuel tank and set it to the side with the lines still connected.



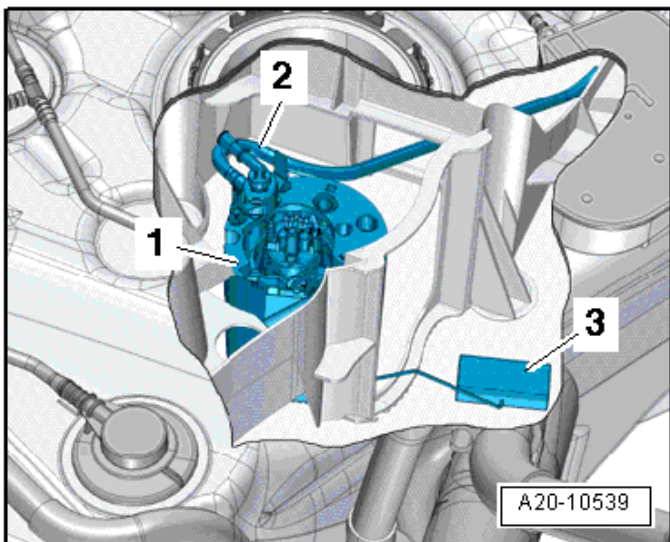
- Pull the sealing flange slightly out of the fuel tank and slide the -VAS5190A- into the fuel tank through the gap between the sealing flange and the installation opening.
- Extract the fuel through the opening for the fuel delivery unit until the fuel has been reduced to a level that allows contact with the suction jet pump without submerging the hands in fuel.

**NOTE**

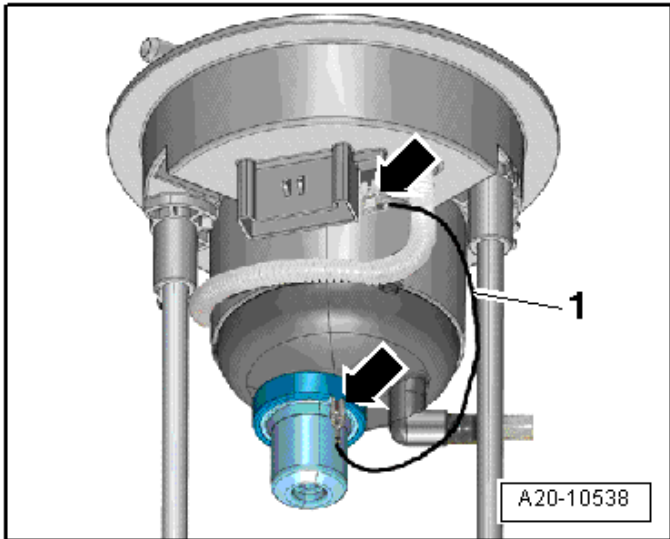
Accurately record the amount of fuel in liters removed from the vehicle using the sightglass measurement viewport on the side of the -VAS 5190- Fuel Extraction Unit. It is required to return to the fuel tank precisely the amount of fuel removed from the fuel tank. Failure to do so may result in fuel sending unit faults.



- Reach through the opening in the fuel tank and unlock the suction jet pump <arrows>.
- Pull suction jet pump <2> carefully upward with suction jet pipe <1> still connected.
- Disconnect suction jet pipe <1> from suction jet pump by pressing release button between the finger and thumb, pushing in on the connector, and then pulling off. Do not use pliers or other tools to disengage the connector or damage to the connector can occur.
- Remove the suction jet pump.
- Reach through the opening in the fuel tank and carefully remove the fuel delivery unit <3> being careful not to damage or bend the fuel sending unit floater arm.



**NOTE**  
 Be careful not to bend the floater arm on the Fuel Level Sensor <3> when removing the fuel delivery unit <1>.



- Prepare the new fuel pump flange assembly for installation onto the fuel delivery unit.
- Remove the fuel filter flange assembly from the top of the fuel delivery unit, and install the new fuel filter flange.

Part Number	Part Description
8R0 919 679 C	Fuel Filter Flange
1J0 919 133 B	Seal Ring

**! NOTE**

The new replacement fuel filter flange <part number 8R0 919 679 C> does **NOT** require the installation of the protective film.

**! NOTE**

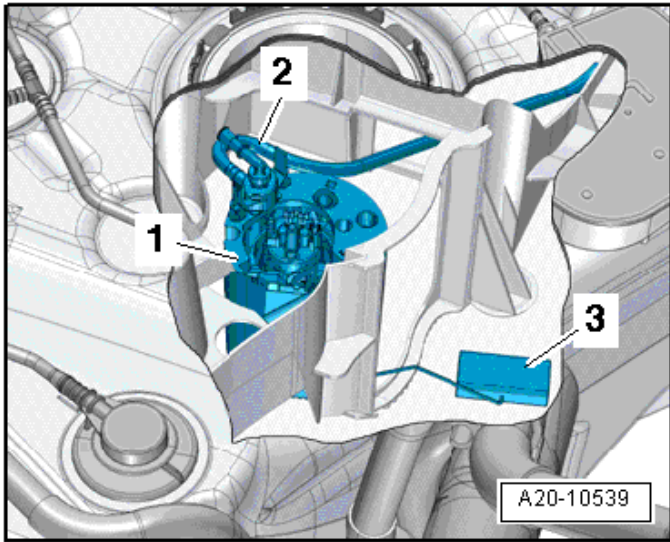
Be sure to connect the ground wire <1> to the fuel delivery unit <arrows> before continuing. Take care that during installation of the new fuel delivery unit assembly that the ground wire <1> is not damaged.



- Make sure the fuel hoses and wires are routed correctly as shown in the illustration.
- The fuel supply line must be routed in front of the guide pipe.
- The suction jet pipe must be routed behind the guide pipe.
- Insert the guide tube and the sealing flange into the guide holes of the fuel delivery unit.

**! NOTE**

- Do not use pliers or other tools on the fuel line connector or damage to the connector may occur.
- Damage to the fuel line connector due to improper removal/installation may cause the connector to not fasten securely upon reinstallation, causing a leak.
- A damaged fuel line connector requires replacement of the fuel line.
- Consequential damage to the fuel line connector due to improper removal/installation is not covered under this campaign.



- Carefully reinsert the fuel delivery unit <1> into the fuel tank.
- Reach through the opening in the fuel tank and properly align the suction jet pump <2>.

**NOTE**

Be careful not to bend the floater arm <3> on the Fuel Level Sensor <1> when reinstalling the fuel delivery unit <2>.

Route the floater arm <3> carefully into the baffle in the fuel tank.

Make sure all fuel lines inside the fuel tank are routed correctly and do not interfere with the travel of the fuel sending unit floater arm <3>.



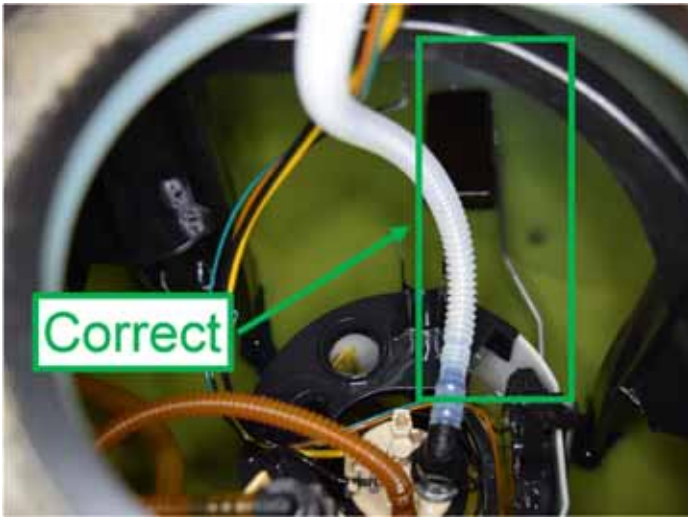
- Arrow denotes the front of the vehicle.
- Attach the suction jet pump to the fuel delivery unit. To do this, reach into the fuel tank through the opening and press down until you hear an audible click.
- Suction jet pump must engage audibly.
- Make sure the suction jet pipe and the suction jet pump are securely locked in place.



- Pay attention to the installation position of the Fuel Level Sensor Float.

**NOTE**

The floater arm of the Fuel Level Sensor must point toward the right side of the vehicle through the opening in the fuel tank baffle.



- Note the correct positioning of the fuel level sensor float.



- Note the proper routing of the suction jet pipe. The suction jet pipe should be directed forward through the opening in the fuel tank baffle.

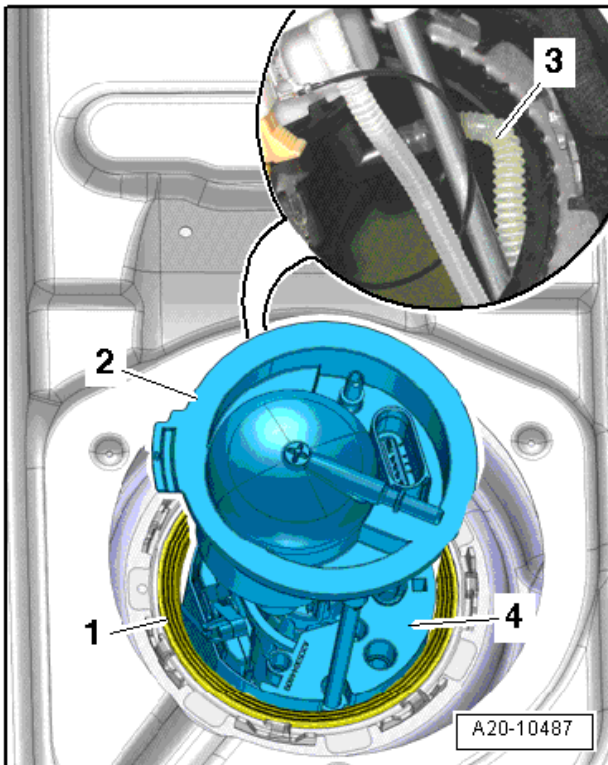


- Note the proper routing of the vent pipe <circle>.

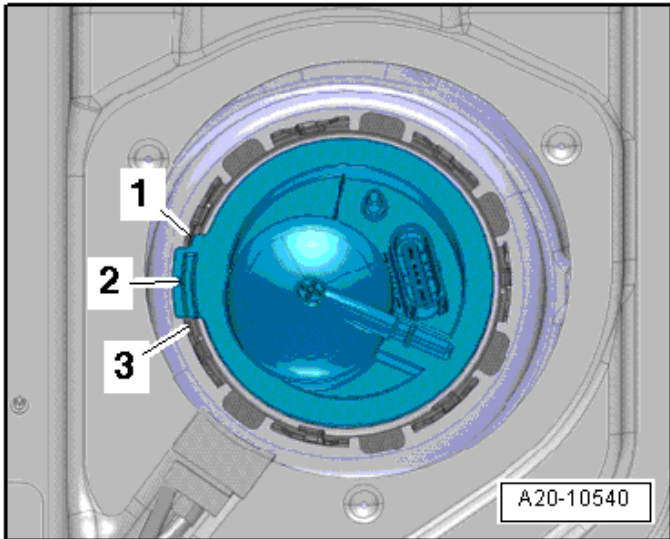




- Reconnect the fuel pump connector to the fuel filter flange.



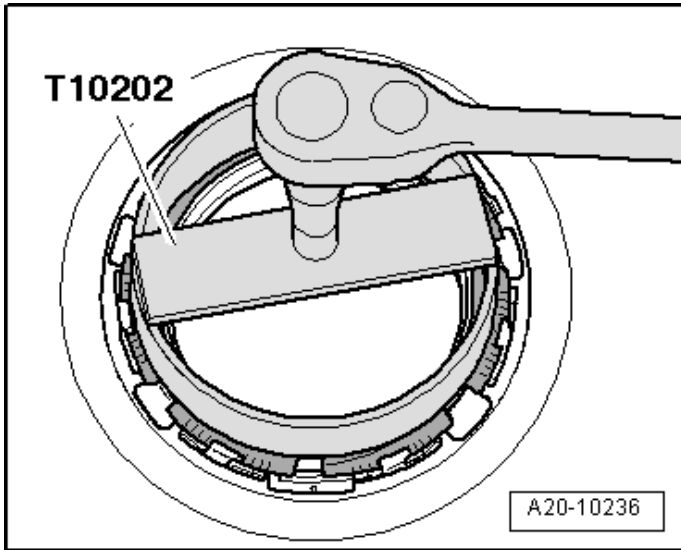
- Move the fuel filter flange <2> toward the center of the vehicle and insert the fuel filter flange <2> and fuel line <3> into the fuel tank.
- Carefully install the fuel line <3>.
- Install the new sealing flange seal <1> over the fuel filter flange <2> stretched and dry.



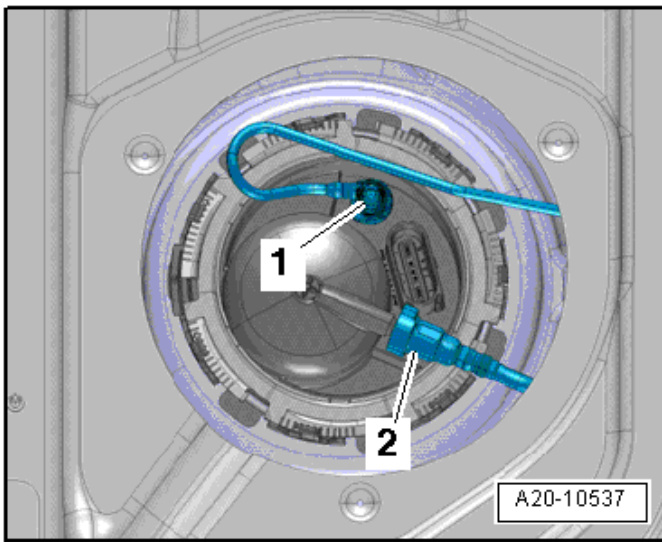
- Move the fuel pump flange into the installation position.

**NOTE**

The tab <2> on the sealing flange faces toward the rear of the vehicle and must be between the tabs <1> and <3> on the fuel tank.



- Tighten the locking ring using the Fuel Sending Unit Wrench -T10202-. Torque the locking flange to 110 Nm.

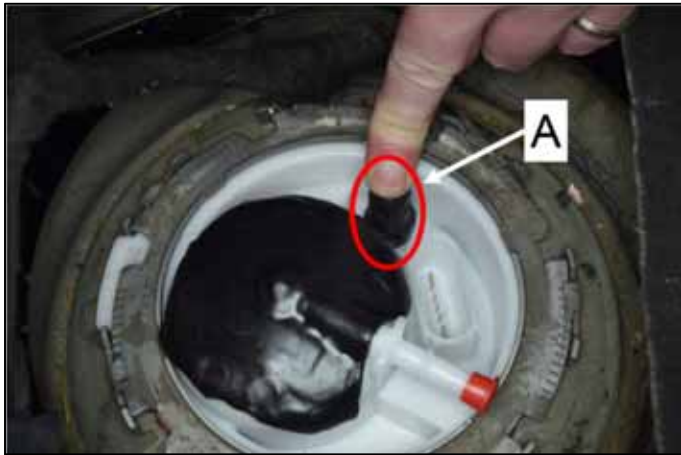


- Connect the fuel line <2>.
- Push the connector into the fuel filter flange until you hear an audible click, then pull gently on the fuel line connector to verify the connection to the fuel filter flange.

**NOTE**

The fuel heater line <1> is not applicable on most vehicles.

You must install the Quick coupling piece cap in the next step onto the nipple located at the fuel heater line connection <1> if the fuel heating line is not applicable, or you will develop a fuel leak.

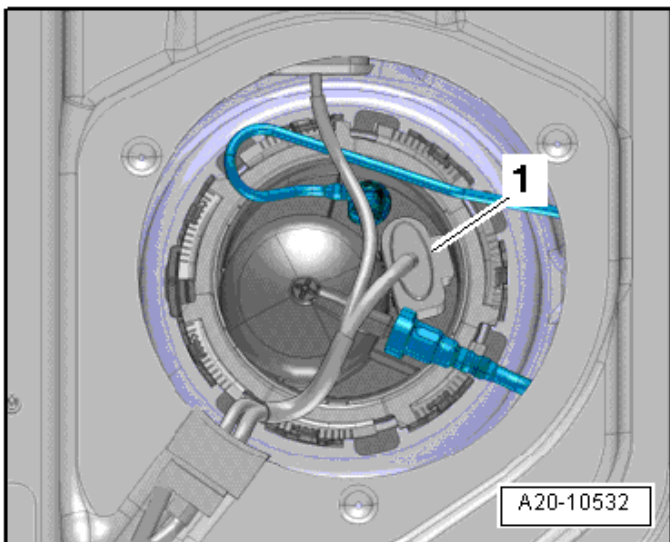


- Install the Quick coupling piece cap <A> to the top of the fuel filter flange until you hear an audible click.
- Pull gently on the Quick coupling piece cap <A> to verify connection to the fuel filter flange.

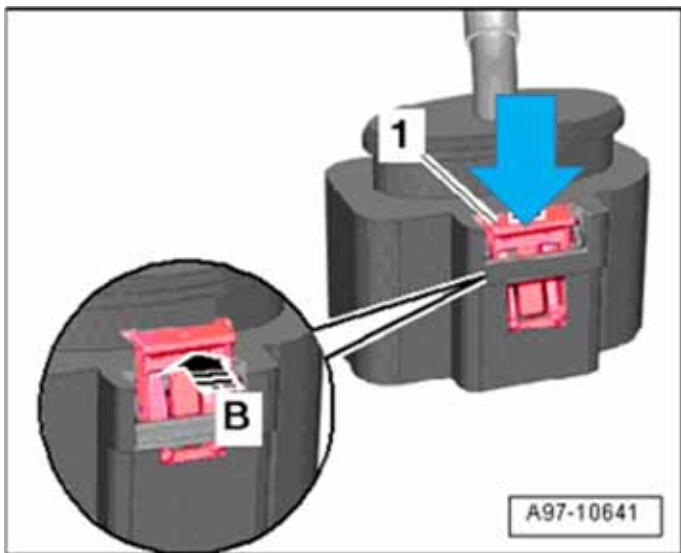
Part Number	Part Description
8E0 201 263G	Quick coupling piece cap

**⚠ WARNING**

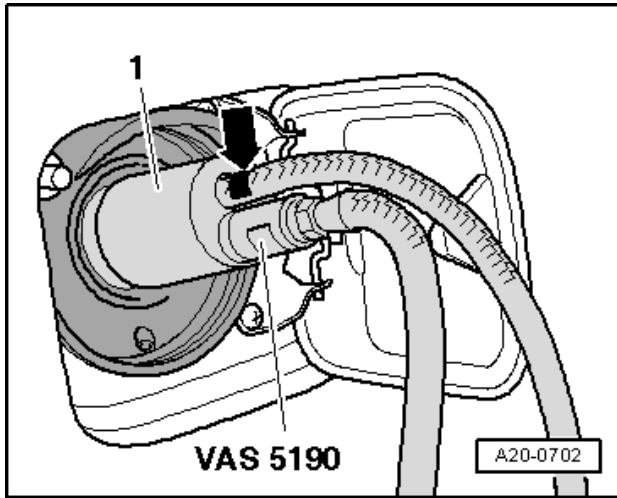
There is a risk of fuel leaking out of the fuel line heater connection <A> if the Quick coupling piece cap is not installed. Verify that the Quick coupling piece cap is connected or the vehicle will leak fuel from the fuel line heater nipple.



- Reinstall the electrical connector <1> until you hear an audible click.
- Pull gently on the connector to verify connection to the fuel filter flange.



- Be sure to properly engage the red locking tab <1> by pressing down <arrow> after properly securing the connector.



- Dispense recovered fuel contained in the -VAS 5190- Fuel Extracting Device back into the vehicle fuel tank.

**CAUTION**

Refer to the previously recorded fuel measurement obtained from the -VAS 5190- Fuel Extraction Unit sightglass. Be certain to refill the vehicle fuel tank with the same amount of fuel that was originally extracted from the vehicle or fuel sending unit faults may occur.

- **Proceed to Section F to Reinstall the Seat Frame.**

**Section H – Campaign Completion Stamp**

I certify that this campaign has been performed in strict accordance with the applicable Audi repair procedure.

SAGA Code: \_\_\_\_\_

Technician: \_\_\_\_\_

Date: \_\_\_\_\_

Item#: AUD4927ENG

-OR-

Je certifie que cette campagne de rappel a été exécutée suivant les strictes directives de réparation d'Audi

Code de SAGA: \_\_\_\_\_

Technicien: \_\_\_\_\_

Date: \_\_\_\_\_

Item # AUD4927FRE

- Once the campaign has been completed, the technician should stamp the repair order.
- Stamps are available for ordering through the Compliance Label Ordering Portal.
- **Proceed to Section I.**

**Section I - Parts Return/Disposal**

Properly store (retain), destroy or dispose of removed parts in accordance with all state/province and local requirements, unless otherwise indicated and/or requested through the Warranty Parts Portal (WPP).

**All work is complete.**

## Appendix A – Warning and Safety Precautions

### WARNING

#### Note the Following When Working on the Fuel System:

- There is a risk of injury because the fuel is under very high pressure.
- Fuel pressure in high pressure pipe can be up to 120 bar (1740 psi)! Always follow the safety precautions when reducing the pressure in the high pressure area.
- The fuel supply line is under pressure. To prevent injuries and skin contact, wear protective goggles and protective clothing. Wrap a clean cloth around the connection before loosening hose connections. Remove the hose connection carefully to release the pressure.
- Fuel coming into contact with skin poses a health risk.
- Do not let fuel come in contact with bare skin. Wear fuel-resistant gloves.
- Leaking fuel poses a risk of burns.
- For safety reasons, switch off the current to the fuel pump before opening the fuel system. Otherwise, the fuel pump will activate when the driver door is opened.
- Disconnect the power supply by removing the fuse for the Fuel Pump Control Module / fuel delivery unit, or by disconnecting the battery.
- Danger of explosion due to cell phones. Keep cell phones out of reach in the work space area.

### WARNING

#### General Safety Precautions when Working with Pyrotechnic Components:

- Pyrotechnic components always contain propellant that generates a gas during combustion. In some components, there is also a supply of pressurized gas to ensure this gas is generated
- This pressurized gas is stored under high pressure in a compressed gas container. Pyrotechnic components are triggered by electrical/mechanical igniters.
- Only trained personnel should perform testing, assembly and servicing work. Airbags do not have a replacement interval.
- Never check with test lamps, voltmeter or ohmmeters.
- Only check pyrotechnic components when they are installed in the vehicle using vehicle diagnosis, testing and information systems approved by the manufacturer.
- When working on pyrotechnic components and the airbag control module, disconnect the battery ground strap while the ignition is switched off. Then cover the negative terminal.
- Wait 10 seconds after disconnecting the battery.
- The ignition must be switched off when connecting the battery. There should not be anyone inside the vehicle when doing this.
- Exception: vehicles with batteries in the passenger compartment. In this case, stay outside the range of the airbags and seat belts.
- Wash your hands after touching ignited pyrotechnic components from the restraint system.
- Do not open or repair pyrotechnic components. Use only new components to reduce the risk of injury.
- Do not install pyrotechnic components that have fallen onto a hard surface or show signs of damage.
- Discharge static electricity before handling pyrotechnic components, for example before disconnecting the electrical connector. This can be done by touching grounded metal objects such as the door striker pin.
- Install pyrotechnic components immediately after removing them from their transport packaging. If you must stop working, store the pyrotechnic component in its original transport packaging.

- Do not leave pyrotechnic components lying in the open unattended.
- Do not treat pyrotechnic components with grease, cleaning solutions or similar products.
- Do not expose pyrotechnic components to temperatures above 100 °C, even for brief periods of time.