

Description: Installation Instructions for the Q5 trailer hitch for Port Installers

Fitment: 2011 Model Year Q5

Option Code: 5TH_ATH

Version Number: 1.0

Part Number: 8R0 092 115 (Trailer hitch kit)
** 8R0-807-819-J -1RR (Bumper cover trim)
8R0 907 297 (Trailer hitch cont. module bracket)

Quantity: 1 each

Supplier: AGA

Publish Date: 25 March 2011

Installation: 3

**** S-line Only**

Please read and take note of these WARNING, CAUTION and NOTE descriptions before carrying out maintenance or repair work or fitting add-on parts.

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Warning!

Text with this symbol contains information concerning your safety and how you can reduce the risk or serious and fatal injuries.

Pay Special attention to the DANGER symbol. Ensure you read the relevant texts thoroughly.



Caution!

Text with this symbol contains information on how to avoid damage to the vehicle.

A Caution symbol indicates that failure to follow information could lead to damage to the vehicle. Ensure that the ignition is switched off before the battery is connected, otherwise the engine control unit could be damaged.



Note

Text with this symbol contains additional useful information.

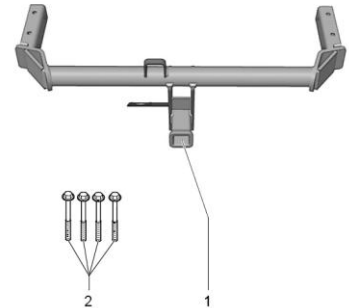
A note symbol also contains special and additional notes on repair measures and associated information.

Special tools are required for assembly. Improper installation can cause damage to the vehicle or the add-on part.

Audi of America will not accept responsibility in the event of failure to comply with these assembly instructions.

Parts Allocation:

1. Towing bracket with receiver.
2. Bolts (4) M10x105 10.9



- 1 7-core socket cable set with pre-assembled socket
- 1 7-pin socket incl. fitting material
- 1 Trailer connection unit incl. fitting material
- 1 Sticker for Electric Brake
- 1 Cable tie, 300 mm long
- 5 Cable ties, 150 mm long



Special Tools:

Description / Number

80-200



W00-0337

Description / Number

3409



W00-0018

10mm, 16mm and 17mm Deep Socket



1/4" or 3/8" Ratchet



T25 Bit or Screwdriver



#2 Philips Head Screwdriver



Torque Wrench



Rubber Mallet



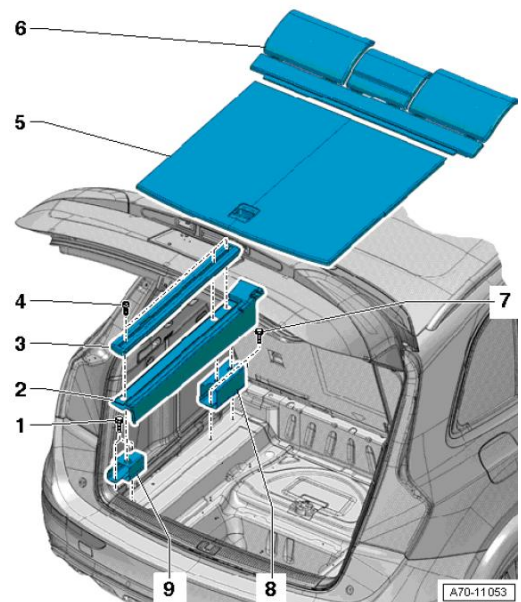


Warning:

Read entire instructions thoroughly before starting. Installation should be performed only by a qualified person. Observe all safety precautions when working beneath a vehicle. Beware of sharp edges. Always wear eye protection. Always wear protective gear and use caution when using hand tools throughout the installation process.

1.0 Assembly overview of luggage compartment floor

- 1 – Bolt (4 units / 60Nm)
- 2 – Trim cover for door (removal page *)
- 3 – Support rail / fixed fastening rings (removal page *)
- 4 – Bolt (6 units / 4Nm)
- 5 – Rear cargo flooring (removal page *)
- 6 – Front cargo flooring (removal page *)
- 7 – Bolt (4 units / 60Nm)
- 8 – Front bracket (removal page *)
- 9 – Rear bracket (removal page *)



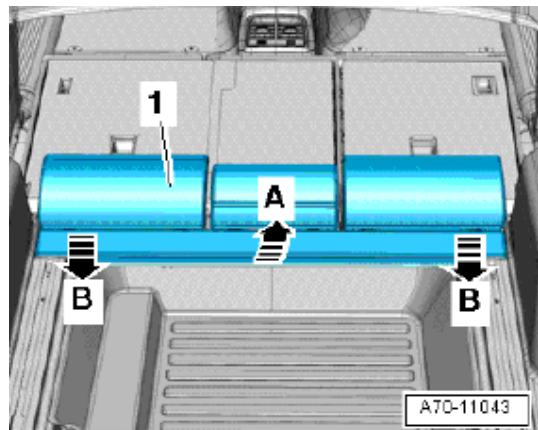
1.1 Remove rear parcel shelf

1.2 Removing front luggage compartment floor

Fold the rear seat backrests forward

Lift and remove the rear luggage compartment floor. Place it in a clean safe area

Lift up front luggage compartment floor -1- (arrow A) and remove it to the rear (arrows B)



Optional: remove spare tire, unplug and remove subwoofer.

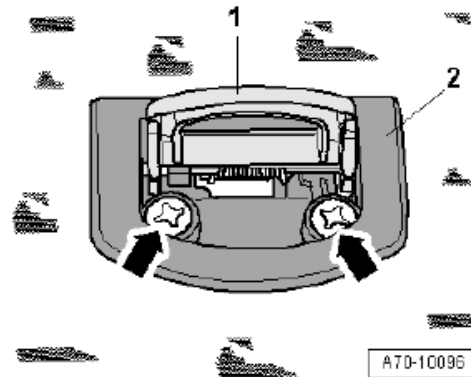
1.3 Vehicles with fixed fastening rings – Removing fastening rings

! Note

Installation and removal are identical on both the right and left side.

Fold the fastening rings -1- upwards.

Remove the T 30 bolts –arrows- and the fastening ring attachment.



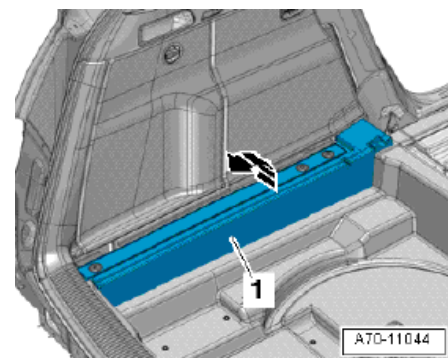
1.4 Removing trim cover door

! Note

Installation and removal are identical on both the right and left side.

Remove dirt tray, if there is one

Swivel the front trim cover for door - 1- backwards –arrow- detach from rear paneling and remove.

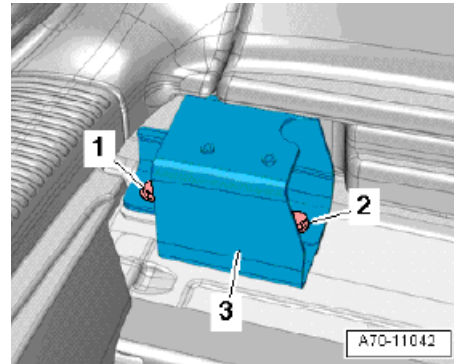


1.5 Removing rear retainer

⚠ Note

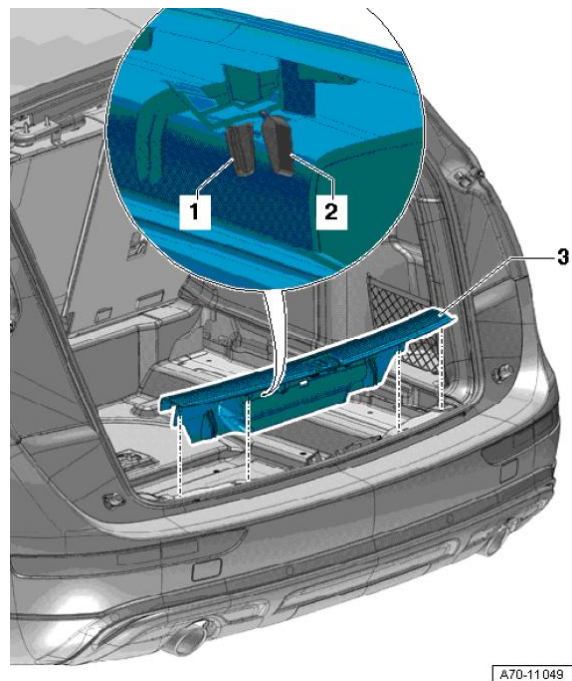
Installation and removal are identical on both the right and left side.

Remove 16 mm bolts -1, 2- and rear holder -3-.



1.6 Assembly overview of rear end paneling

1. Centering pin
2. Fasteners
4 Units
Insert into the paneling
Replace if damaged or deformed
3. Rear end paneling



1.7 Removing the rear end paneling

⚠ Note

Installation is carried out in reverse order. Please note the following points:

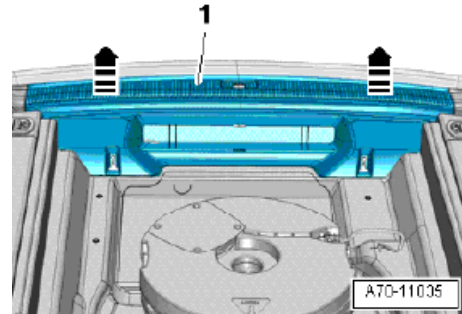
If fasteners for paneling attachment remain in the holes in the body remove the fasteners and insert into the paneling for use when re-installing.

Check the fasteners for damage or deformation and replace as necessary.

When reinstalling paneling, press on rear end paneling until the unit audibly engages and place the rubber lip of the seal for the rear lid over the rear end paneling.

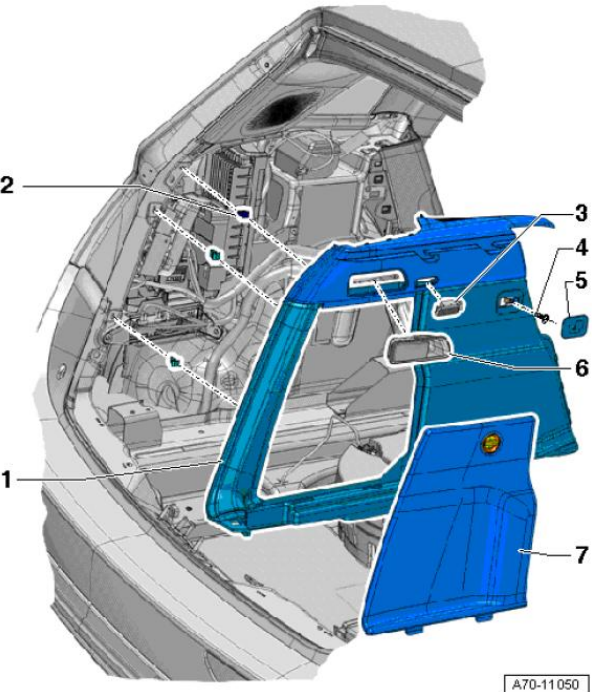
Using the removal tool -80- -200-, unclip the rear end paneling -1- vertically using an upward motion – arrows-.

Carefully remove rear end paneling by pulling upwards and disconnect electrical power supply for rear lid senders.



1.8 Assembly overview of luggage compartment side trim

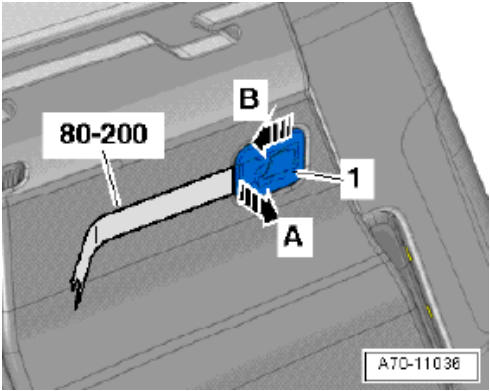
- 1. Luggage compartment side trim
- 2. Fasteners (3 units)
- 3. Luggage compartment light
- 4. Bolt (3Nm)
- 5. Suit hangers
- 6. Rear backrest release
- 7. Luggage compartment side cover



1.9 Remove the suit hanger

Note
Installation and removal are identical on both the right and left side.
When installing the suit hanger, insert it into the side trim and push it until you hear it click into place.

Using the removal lever -80 – 200 -, pull up the rear suit hanger -1- until it lifts away slightly from the side –arrow A- and pull it backwards away from side trim –arrow B-.



1.10 Removing rear retainer

⚠ Note

Installation and removal are identical on both the right and left side.

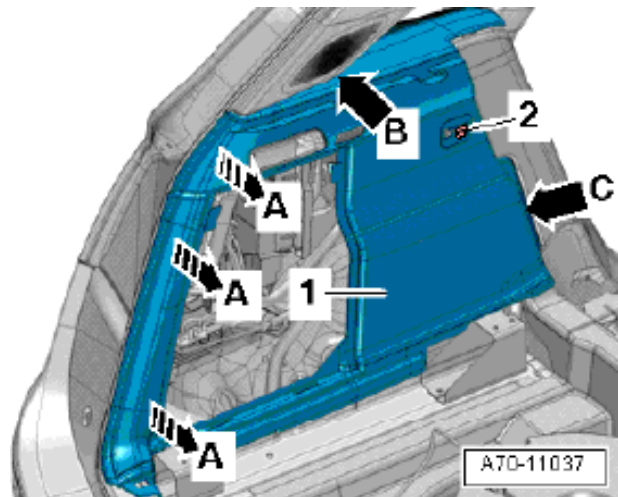
Remove cover for luggage compartment side trim panel
Undo the Philips Head screw -2-

Undo the T 25 screw behind the rear seatback release level

Using the removal level -80-200-, pry the luggage compartment side trim -1- away from the body –arrows A-

Using the removal wedge -3409-, unclip and remove the luggage compartment side trim near the D pillar trim –arrow B- and rear sill trim panel –arrow C-

Position side trim panel with attached wires in luggage compartment



 Note

Installation is carried out in reverse order. Please note the following points:

If fasteners for paneling attachment remain in the holes in the body remove the fasteners and insert into the paneling for use when re-installing.

Check the fasteners for damage or deformation and replace as necessary.

Hold luggage compartment side trim in position and press until you hear it click into place.

Place the rubber lip of the seal for the rear lid over the luggage compartment side trim.

1.11 Assembly overview of rear bumper cover

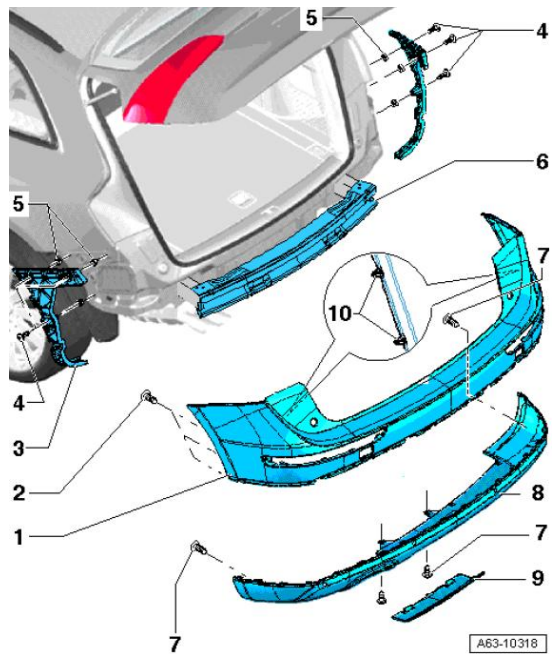


Warning!

It is important to note the following when working with vehicles fitted with the lane change assistant (Audi side assist).

If the rear bumper is removed and reinstalled or if any modifications are made to rear bumper, the lane change assistant (Audi side assist) must be recalibrated (Repair Group 96).

1. Rear bumper cover
2. Four T-25 Bolts (1.5Nm)
3. Guide part
4. 10mm Bolt (1.5Nm)
5. Clip
6. Impact bar
7. T-25 Bolt (1.5Nm)
8. Spoiler
9. **Trim panel (not applicable)**
10. Clip (unclip bumper on both sides before pulling back to remove).

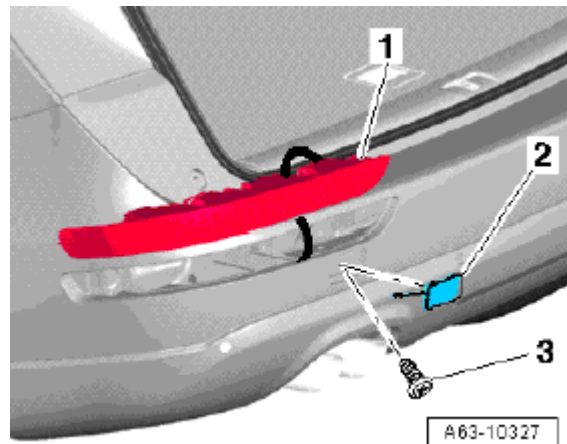


1.12 Removing the rear bumper cover

 Note

Installation and removal are identical on both the right and left side.

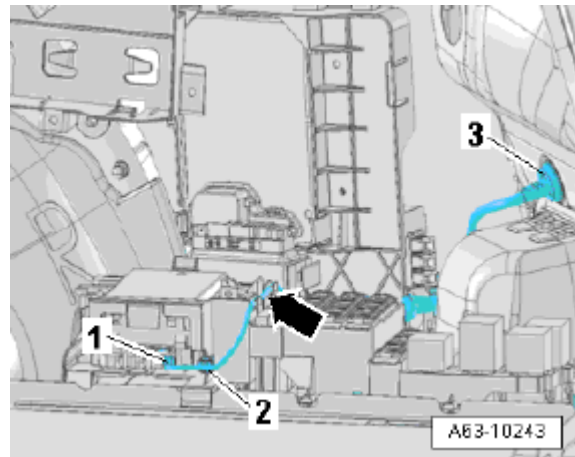
Pry off the cover using 80 200 trim removal tool -2-, undo Philips Head screw -3- and disconnect electrical connector -1- to tail light.



If one is fitted, disconnect electrical connector -1- from the parking aid control unit –J446-

Uncover electrical wiring harness from control unit retainer –arrow- and remove cable tie -2-

Push grommet -3- through towards the rear



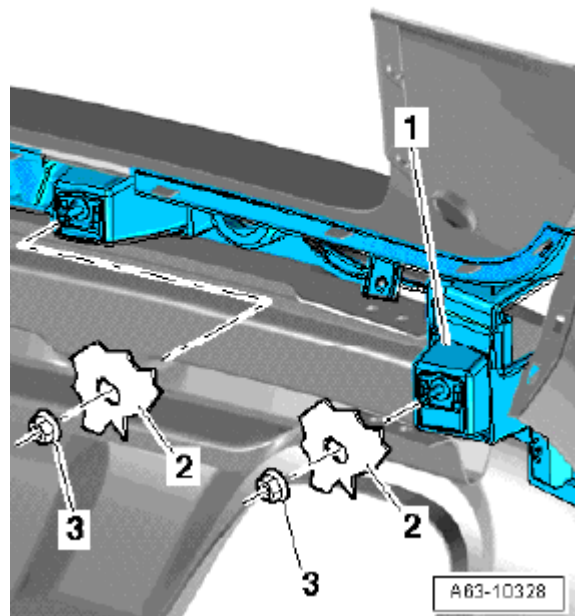
Remove air compressor and air compressor tray to access left side bumper cover stud.

Loosen wiring tray to access right side bumper cover stud.

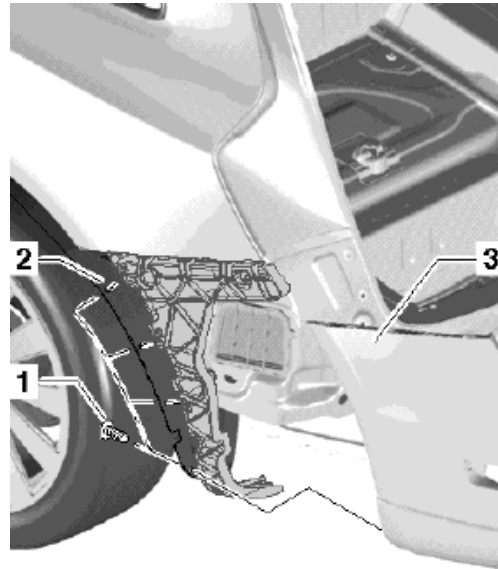
Remove electrical fuse box on right side (10mm nut fixed washer)

Push grommet -3- through towards the rear.

Pry off the cover -2-, undo the Philips screw -3- and disconnect electrical connector to tail light connector -1-



Undo four T-25 screws -1- at the cover (top) and spoiler (bottom).



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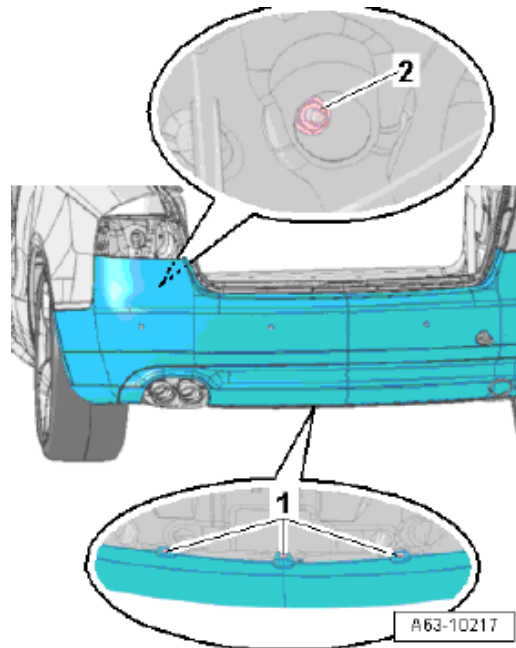
Unscrew the T-25 screws -1- on the bottom part of the bumper cover.

Unclip cover the rear cross panel at the left and right.

Unclip cover from the guide parts at the left and right.

Remove cover from the vehicle and place in a safe clean area.

Remove impact bar and discard.



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 Note

After fitting the towing bracket, the impact bar is no longer required

 Note

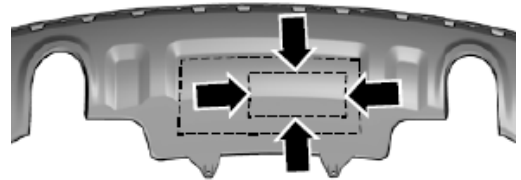
Audi Q5 S-line models do not require the rear bumper modifications listed below. Simply remove the panel over the opening for the trailer hitch and place inside the rear cargo area. Install bumper trim 8R0 807 819 J.

2.0 Making an opening for the towing bracket

2.1 Cutting an opening for connecting towing bracket to diffuser (if required)

Where indicated –arrows- on the diffuser cut the inner section using workshop tools.

Deburr the cut surfaces.



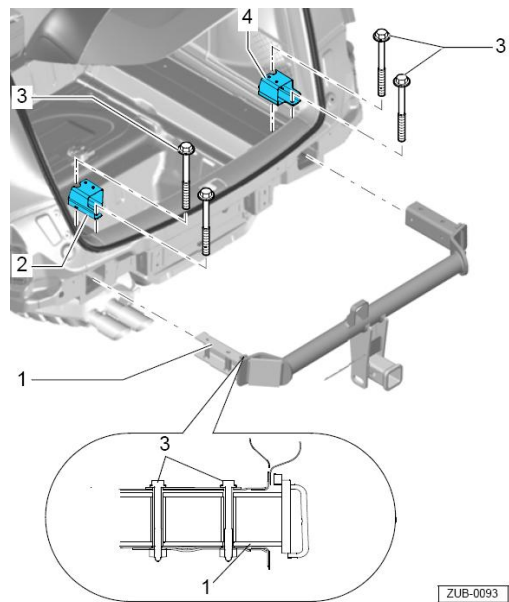
ZUB-0122

3.0 Fitting the towing bracket with the receiver

3.1 Assembly overview of towing bracket with receiver

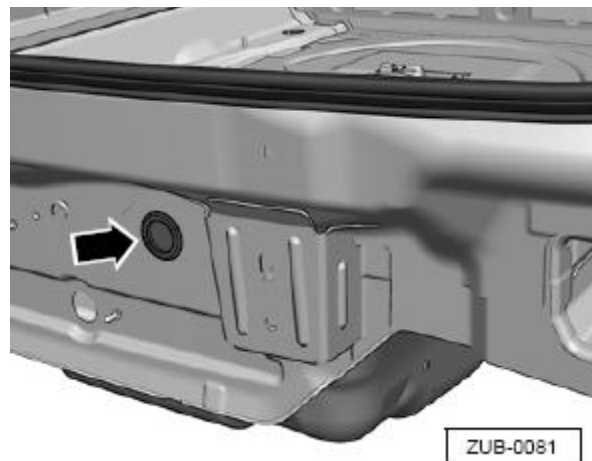
1. Towing bracket
2. Left hand bracket
3. Bolt (60Nm)
4. Right hand bracket

Hole alignment is required to insert bolts



3.2 Fitting the towing bracket with the receiver

Remove rubber grommet from the back panel in the center of the vehicle

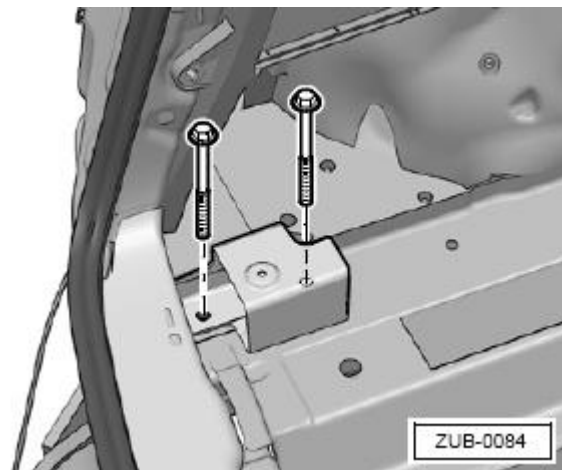


Fit towing bracket with receiver - 1-.

It may be necessary to use a rubber mallet to help insert receiver into opening.

Insert and manually tighten all securing bolts with supports from luggage compartment floor.

Tighten 17mm bolts (60Nm).

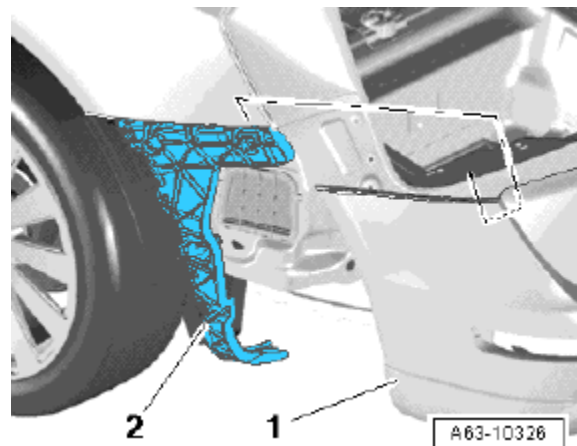


3.3 Notes on installation of bumper cover

When installing, the side guide part -2- must be fully engaged in the bumper cover -1-.

If one is fitted, connect electrical connector to parking aid control unit -J446- (repair group 94).

Install tail light cluster



4.0 Fitting the electrical kit

4.1 Assembly overview of electrical kit

1. Electrical socket for trailer
2. Ground
3. Trailer connection unit
4. Cable bushing

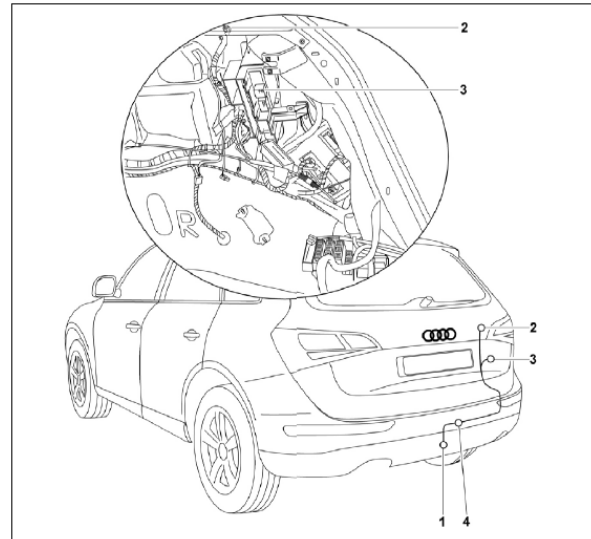


Fig. 1: Installation overview Q5

- | | |
|---------------------------------|---------------------------|
| 1 Electrical socket for trailer | 3 Trailer connection unit |
| 2 Earth point | 4 Cable bushing |

4.2 Installation of electrical kit



Warning!

It is important to work carefully and ensure no damage to wire harness has occurred during these next steps. If damage occurs notify supervisor and PQT Quality right away. Do not attempt repair without guidance from the PQT team.

Disconnect the vehicle battery

Route the end of the cable with the 16-pin plug from outside through the hole to the ground point -2-.

Insert the rubber grommet into the cable bushing -4-.

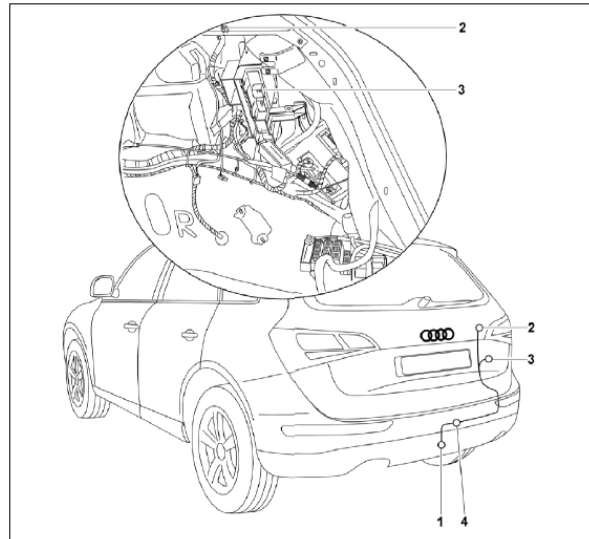


Fig. 1: Installation overview Q5

1 Electrical socket for trailer
2 Earth point

3 Trailer connection unit
4 Cable bushing



Note

Prior to reinstallation of covers Notify PQT Quality for in progress inspections.

Quality must approve installation at this point prior to proceeding.

4.3 Fit socket

Push socket insert into the socket housing and close grey bolting device to the socket.

Screw the socket onto the mounting plate with the four Phillips Head screws provided, torque setting: max 2.0 Nm

Apply the enclosed adhesive label with the warning “no electrical brakes” next to the ball position in a good visible area in a clean surface.

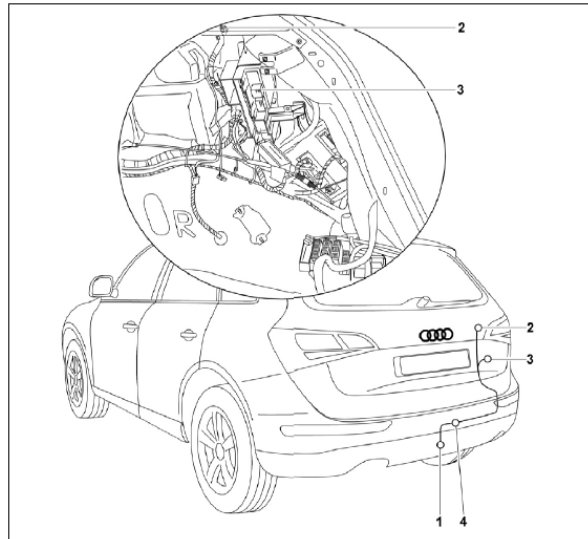


Fig. 1: Installation overview Q5

1 Electrical socket for trailer
2 Earth point

3 Trailer connection unit
4 Cable bushing

4.4 Connect trailer control module

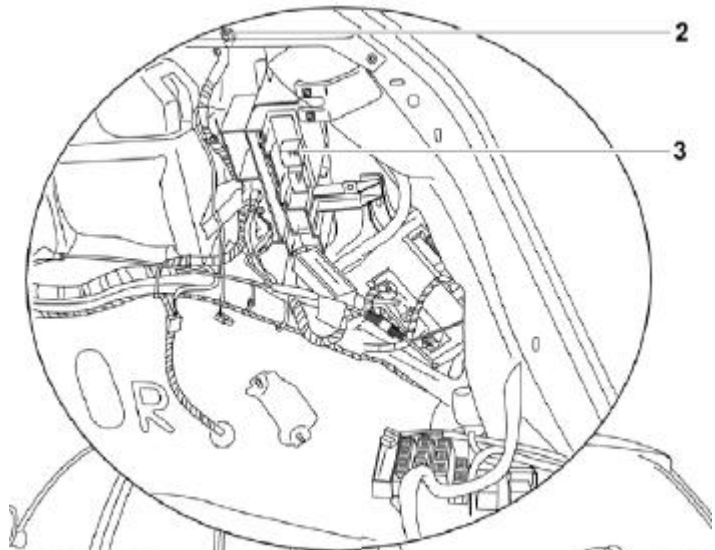


Note

If the control module bracket (8R0 907 297) -3- for the control module is not fitted from the factory, it must be ordered.

Insert the trailer control module into the top right of the control module bracket at the rear right of the vehicle.

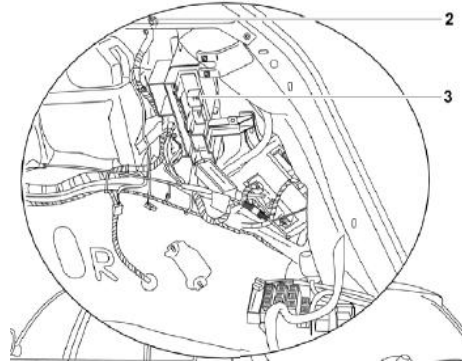
Connect and secure with provided the 16-pin socket housing of the 7-core cable set to the socket provided on the trailer control module.



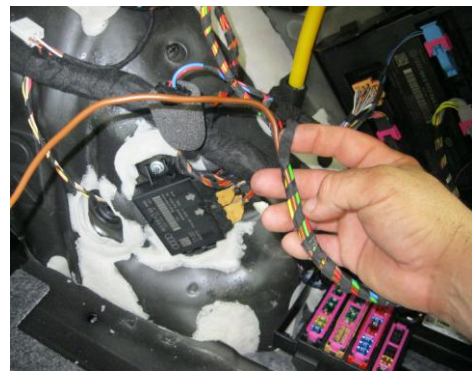
Connect trailer control module

Connect and secure the red 12-pin housing from the vehicle (pre-installed near the control module bracket -3-) to the socket provided on the trailer control module.

Connect and secure the black 2-way housing from the vehicle (pre-installed near the control module bracket -3-) to the 2-way socket housing of the 11-core cable set.



After connecting the other wire connections to the modules, start removing the black tape back from the trailer hitch harness to help loosen the ground wire from the harness.



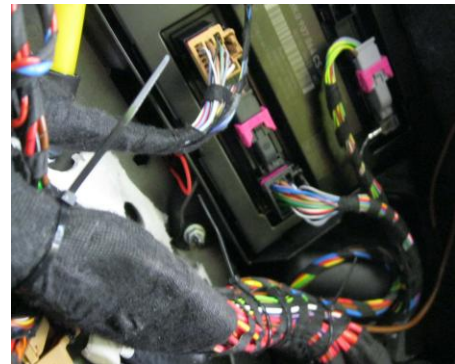
Continue removing the black tape about 6-7 inches back enough so that the ground wire is loose and it reaches the ground point.



With the same black tape, re-tape the trailer hitch harness again.

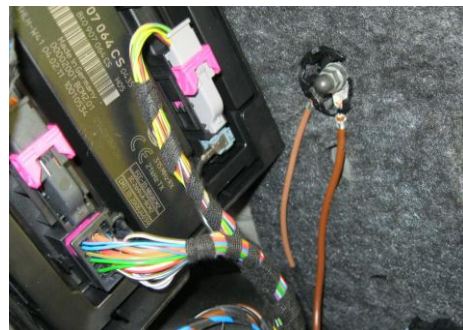


With the wire ties provided in the kit, re-secure the ground wire to the main harness of the vehicle so that the wire is not loose.

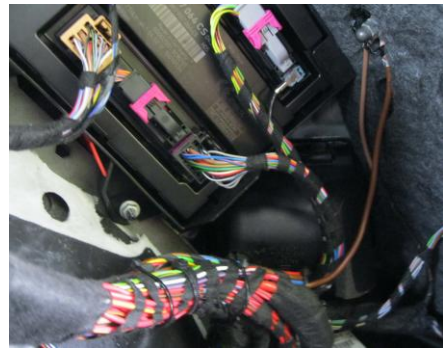


Loosen the 10mm nut at the ground point so that the ground wire can be installed to this ground location.

Connect the brown wire with ring eyelet to the ground point on the vehicle



Recheck the harness to ensure all connections and ground wire are secured properly.



Control module coding

Coding changes may only be carried out by the Software Version Management (SVM using the SVM code for the Vehicle Conversion. Guided Fault Finding is not necessary.

Note

Before updating the SVM code turn on radio so sound can be heard coming from the speakers and keep it on during the entire SVM update process. This ensures the infotainment system will recognize and remember the SVM update.

Note

Enter SVM code 050200 using SVM code for Vehicle Conversion. This can be accessed using Audi Flashing option at the VAS Tester start up screen. All necessary coding changes, parameterizations and back documenting of the trailer hitch conversion will be handled by the SVM Code. Do not run an SVM Spec/Actual through Guided Fault Finding.

 Note

Changing the code also affects the control of the vehicle cooling system. Depending on the previous vehicle equipment, you may need to adapt the vehicle cooling system after retrofitting the trailer hitch. For further information about the conversion, refer to Service Net.

Quality Check

Check the vehicle's fault memory entries and delete them if necessary.

Check that the trailer is in working order using a suitable tester for LED and traditional lighting or with trailer.

Secure cables with cable ties provided

- 1.0 Electrical kit installation complete
- 5.0 Fit bumper cover
- 5.1 Fitting the rear bumper cover



Warning

It is important to note the following when working with vehicles fitted with the lane change assistant (Audi Side Assist).

If the rear bumper is removed and reinstalled or if any modifications are made to rear bumper, the lane change assistant (Audi Side Assist) must be recalibrated (Repair Group 96).

Audi Side Assist Calibration Bracket should be set in the following positions:

All models except S-line: 70.3

S-line models: 81.5

 Note

Removal and installation are identical.

6.0 Quality Check

Quality Check
While maintaining approximately a 36 inch distance from the vehicle. Walk around the rear of the vehicle looking for these quality check points;
No gap greater than 2.0mm with consistency along the edge.
No scratched or otherwise damaged paint.
If non-conformities are noticed contact final inspection for final criteria.
Check operation of rear bumper light and turn signal operation.

7.0 Work complete