

Workshop Manual Audi A8 2003 ➤

General body repairs, exterior

Edition 04.2008



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List of Workshop Manual Repair Groups



Repair Group

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

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00 – Technical data

1 Contact corrosion

Contact corrosion can occur if unsuitable fasteners (bolts, nuts, washers etc.) are used on the vehicle.

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

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

Should you have any doubts whether certain parts can be reused, use new parts ⇒ Electronic parts catalogue .

Important:

- ◆ We recommend using genuine replacement parts only, as these have been checked and are compatible with aluminium.
- ◆ We advise using Audi Genuine Accessories.
- ◆ Damage caused by contact corrosion is not covered by the warranty.



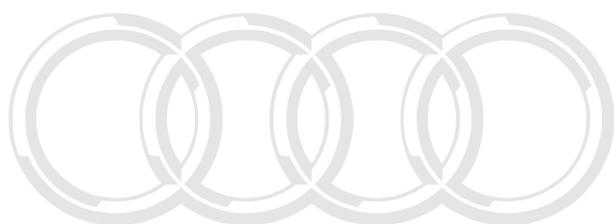
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2 Routing and attaching pipes and wiring

Make sketches or take photographs when unfastening or removing and installing hydraulic and pneumatic pipes or wires. This ensures that you can re-install them at the original location.



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50 – Body - front

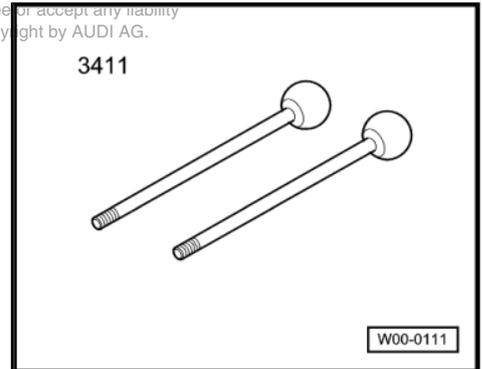
1 Body - front

1.1 Service position for lock carrier

Special tools and workshop equipment required

- ◆ Guide pins -3411-

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Note

- ◆ *Service position does not require disconnection of refrigerant, coolant or hydraulic fluid circuit pipes.*
- ◆ *Connectors do not need to be unplugged.*



Caution

When installing the lock carrier, take care not to trap any wires or hoses ⇒ [page 6](#) ..

**1 - Lock carrier**

- Removing ⇒ [page 6](#) .
- "Service position": Front wheel housing liner/ front section removed
- Bumper cover removed.
- Unscrew bolts -2-, -7-, -9- and -10-.
- Note different lengths of bolts -9- and -10-.
- Guide pins -3411- must be screwed into threaded holes of both outer bolts -10-.
- Unscrew nut at banjo bolt at top of wing panel ⇒ [page 5](#) .
- Lock carrier can then be pulled forwards approx. 10 cm and secured in this position.

2 - Bolt

- M8×16
- 23 Nm

3 - Front brace

- Installation position ⇒ [page 9](#) .

4 - Bolt

- 25 Nm

5 - Bolt

- 25 Nm

6 - Bracket for front brace**7 - Bolt**

- 23 Nm
- Installation position ⇒ [page 9](#)

8 - Bolt

- 10 Nm

9 - Bolt

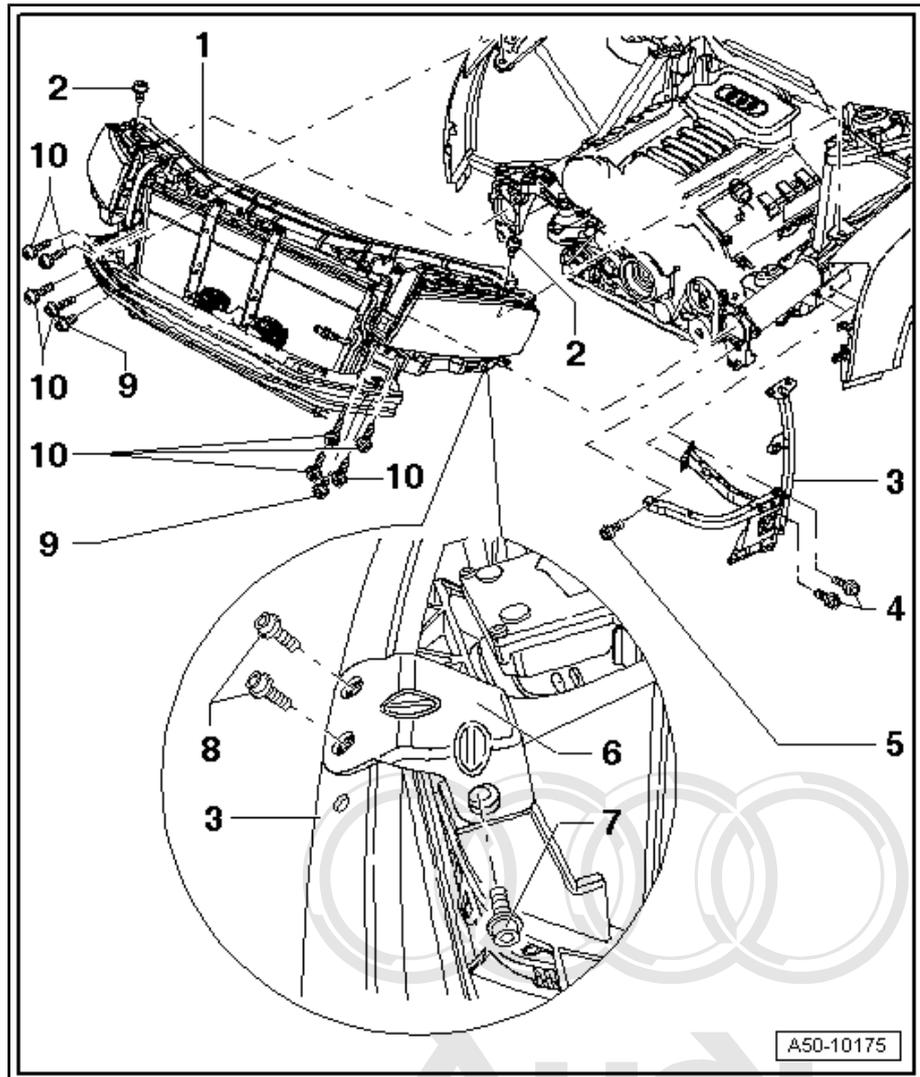
- 23 Nm
- M8 x 30

**Note****10 - Bolt**

- 23 Nm
- M8 x 40

**Note**

- M8 x 55 (top)
- M8 x 40 (bottom)
- Service position: First unscrew left bolt at top on left side and then right bolt at top on right side
- Screw guide pins -3411- into unused threaded holes ⇒ [page 5](#) .

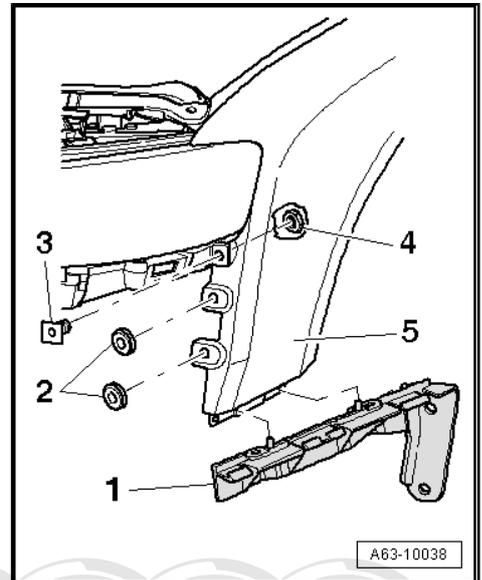


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- ❑ Unscrew bolts -2-, -7-, -9- and -10-.
- ❑ Bolt -7- is fitted behind front wheel housing liner/front section.
- ❑ Pull lock carrier forwards on guide pins -3411- and secure in position.

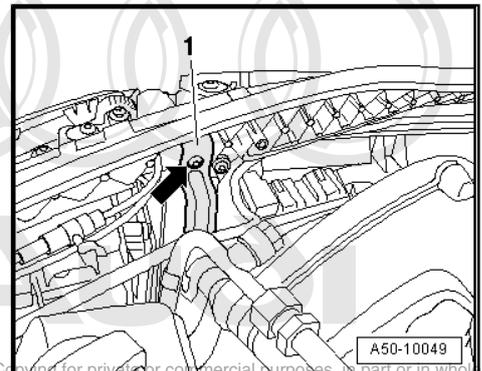
Installing lock carrier/wing

- Service position: unscrew nut -4- from banjo bolt -3-.
- When installing, insert banjo bolt -3- through lock carrier and wing -5- and tighten hexagon nut -4- to 5 Nm.



Installing lock carrier/engine mounting

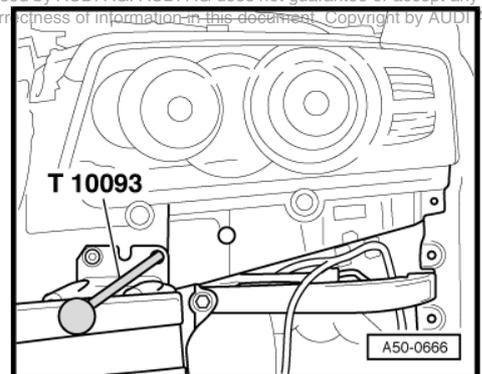
- Depending on engine, additional bolt -arrow- at support -1- must be removed.



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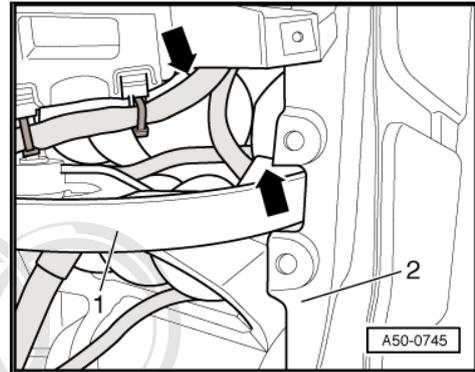
Guide pins -3411-

- Screw guide pins -3411- into threaded holes, as shown.
- Service position: Pull lock carrier forwards approx. 10 cm on guide pins and secure in this position.



Installing lock carrier

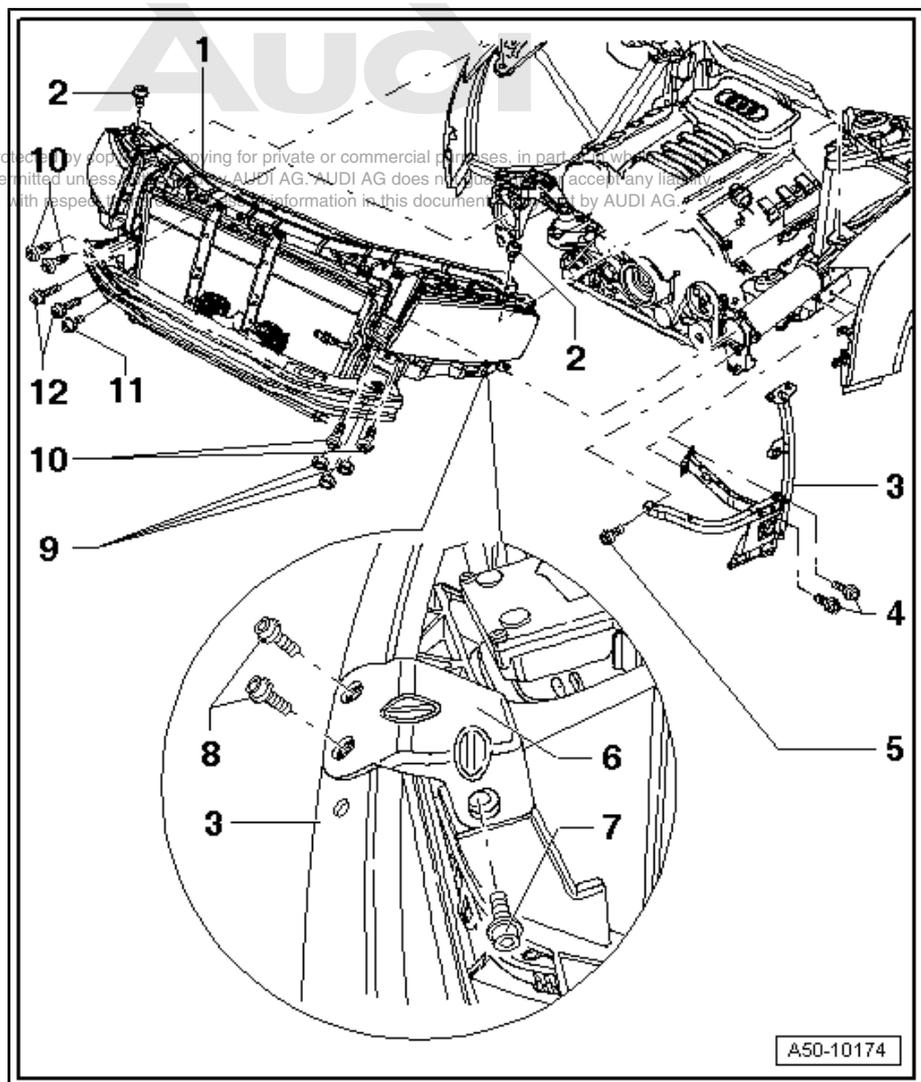
- When installing, take care not to trap cables or hoses
-arrows- between lock carrier and brace -1- or wing -2-.



1.2 Lock carrier with attachments - exploded view

1 - Lock carrier

- Removing:
- Front section of front wheel housing liner removed ⇒ [page 183](#)
- Removing bumper cover ⇒ [page 102](#)
- Disengage Bowden cable for bonnet lock ⇒ [page 20](#) .
- Unscrew air duct between lock carrier and air cleaner at lock carrier.
- Before removing, unplug all electrical connectors.
- Disconnect coolant pipes and drain off coolant ⇒ [page 8](#)
- Top up coolant and bleed system ⇒ Rep. Gr. 19 .
- Discharge refrigerant circuit.
- Remove refrigerant pipes from bottom of condenser ⇒ [page 8](#) ⇒ Rep. Gr. 87 .
- Detach hoses to power steering hydraulic fluid cooler at bottom of condenser ⇒ [page 8](#) ⇒ Rep. Gr. 48 .
- Detach air hose.
- Detach bonnet seal on left and right at transition to wing at lock carrier -1-.
- Unscrew bolts -2-, -7-, -9- and -10-.
- Bolt -7- is fitted behind front wheel housing liner (front section)
- Remove nut from banjo bolt at top of wing panel ⇒ [page 7](#)
- Pull off lock carrier towards front.
- Installing:
- Install in reverse order.



- Adjust headlights
- Adjusting:
- A second mechanic is required to hold lock carrier -1-.
- Lock carrier -1- must be positioned centrally between wings.
- If wings and bonnet are also being renewed, these must first be centrally aligned with one another.

2 - Bolt

- 23 Nm

3 - Front brace

- Installation position ⇒ [page 9](#)

4 - Bolt

- 25 Nm

5 - Bolt

- 30 Nm

6 - Bracket for front brace

7 - Bolt

- 23 Nm
- Installation position ⇒ [page 9](#) .

8 - Bolt

- 10 Nm

9 - Nut

- 30 Nm



Note

Only fitted on "S8" model

- 30 Nm

10 - Bolt

- M8 x 40 mm
- 30 Nm

11 - Bolt

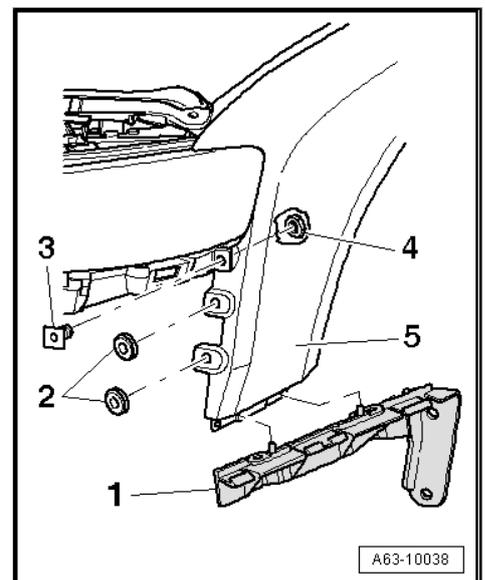
- M8 x 30 mm

Installing lock carrier/wing

- Remove nut -4- from banjo bolt -3-.
- When installing, tighten nut to 5 Nm.



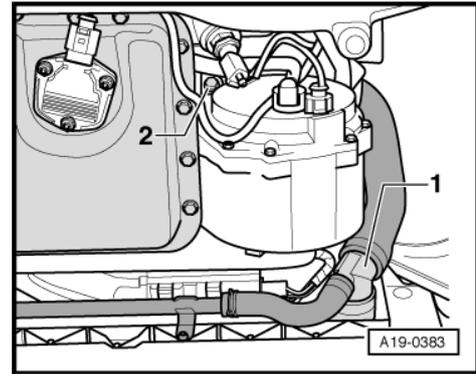
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Draining coolant circuit

- Place drip tray for workshop hoist -VAS 6208- beneath engine.
- Detach coolant hose -1- to drain off coolant.
- Discharge refrigerant circuit => Air conditioner; Repair Group 87 .



1.3 Detaching and re-attaching refrigerant pipes at condenser

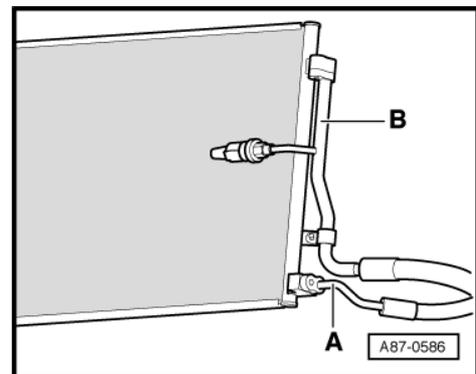


Note

- ◆ *There are different versions of the condenser, depending on the vehicle model (e.g. with and without power steering hydraulic fluid cooler) => Parts catalogue .*
- ◆ *On vehicles with 6-cylinder diesel engine, refrigerant pipes -A- and -B- are attached for example to top and bottom of condenser.*

Detaching

- Discharge refrigerant circuit => Air conditioner with refrigerant R134a .
- Remove noise insulation.
- Remove front bumper => [page 98](#) .
- Unscrew bolts -A- (tightening torque 10 Nm).
- Detach refrigerant pipes from condenser.

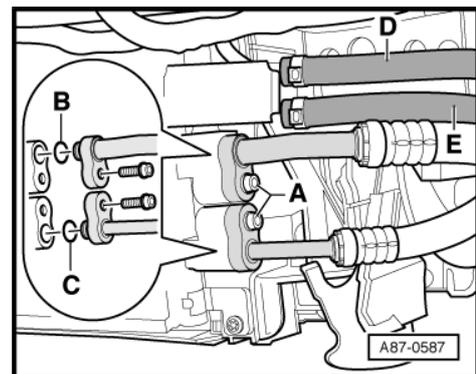


Note

Seal open pipes and connections at condenser with suitable caps to prevent ingress of dirt and moisture.

Attaching

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



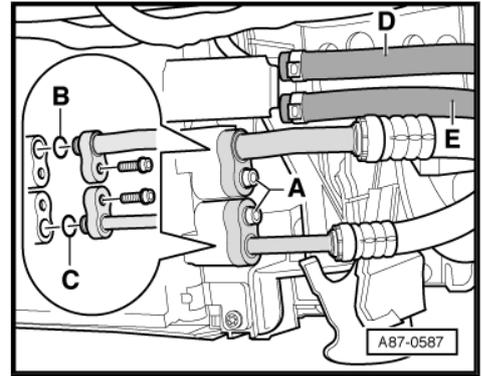
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- Renew O-rings -B- and -C-. For correct version refer to ⇒ Parts catalogue .

i Note

Coat O-rings slightly with refrigerant oil before installing ⇒ Air conditioner with refrigerant R134a .

- Following attachment, check routing of refrigerant pipes. They must be inserted in holders provided and not make contact with other components.
- Evacuate and refill refrigerant circuit ⇒ Air conditioner with refrigerant R134a .



1.4 Front brace - exploded view

1 - Front brace

2 - Torx bolts

- 25 Nm

3 - Attachment points for wing mounting flange

4 - Multi-point socket head bolt

- 23 Nm

- Unscrew this bolt when removing lock carrier.

5 - Attachment points for wing (bottom)

6 - Torx bolts

- 25 Nm

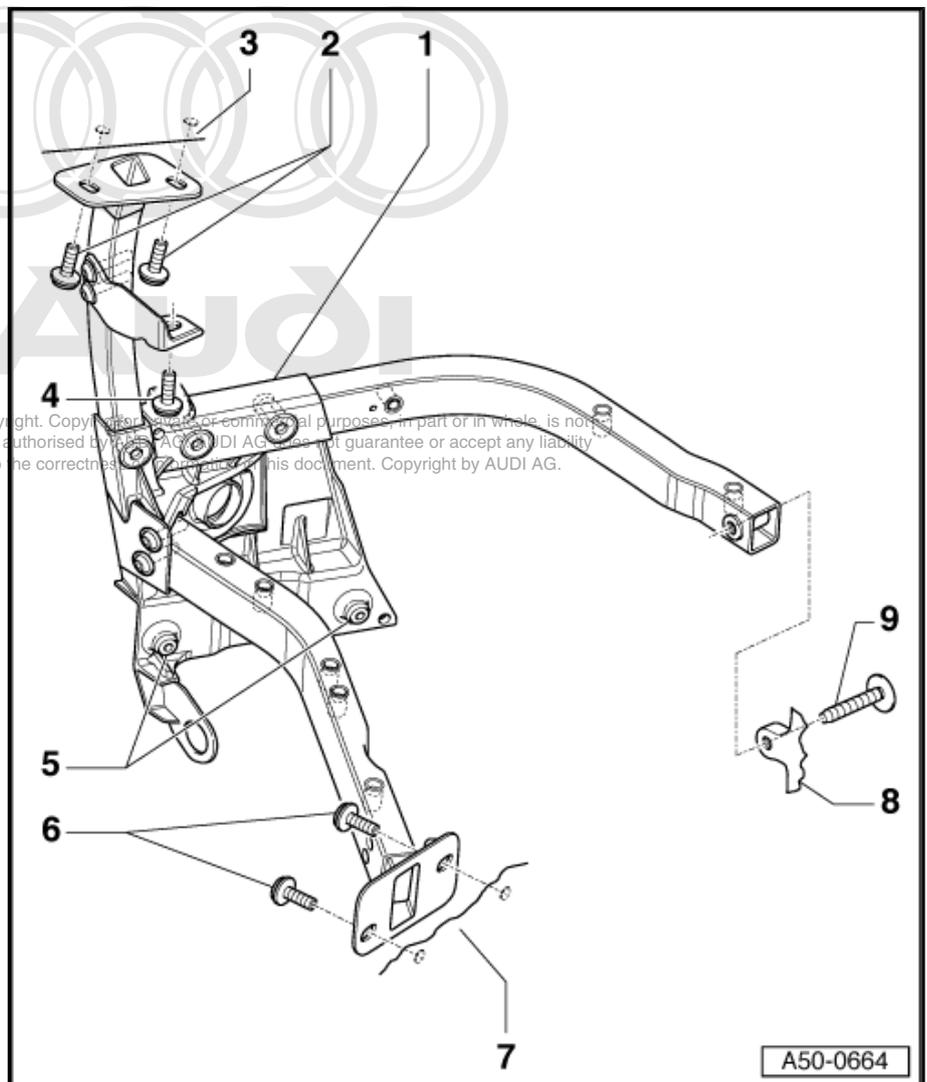
7 - Attachment points at connecting bracket for longitudinal member

8 - Attachment points at impact absorber

9 - Multi-point socket head bolt

- 30 Nm

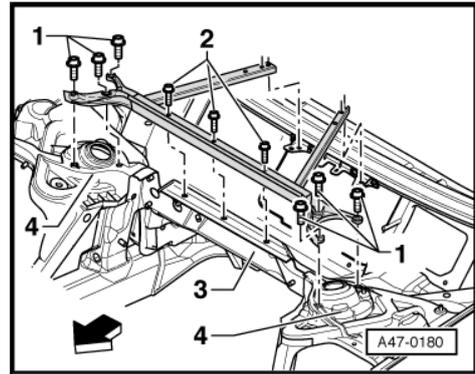
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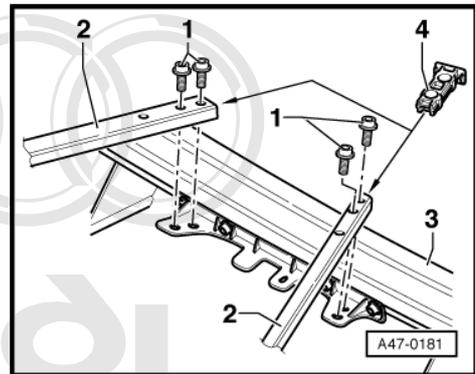
Removing body brace

- Unscrew socket-head combi bolts -1-, tightening torque 45 Nm.
- Unscrew socket-head combi bolts -2-, tightening torque 3 Nm.
- -Item 3- Front section of plenum chamber
- -Item 4- Suspension strut mounting cover

Arrow in illustration indicates direction of travel.



- Unscrew socket-head combi bolts -1-, tightening torque 9 Nm.
- -Item 2- Cross member/suspension strut mounting cover
- -Item 3- Cross member/windscreen
- -Item 4- Windscreen cross member connecting element support



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1.5 Front wing panel - exploded view

1 - Bolt with washer

- 10 Nm

2 - Wing

- Removing bumper cover ⇒ [page 98](#)
- Removing wheel housing liner ⇒ [page 183](#)
- Unfasten headlights ⇒ Workshop Manual, Electrical System.
- Unplug electrical connections for side-mounted turn signal.
- Detach rear bracket for wing ⇒ [page 12](#).
- Unscrew bolts -1-, -3-, -4-, -5- and -7- and detach wing.

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3 - Bolt with washer (2x)

- 8 Nm

4 - Bolt with washer

- 8 Nm
- Lower wing bracket has to be removed to gain access to bolts ⇒ [page 12](#).

5 - Bolt with washer

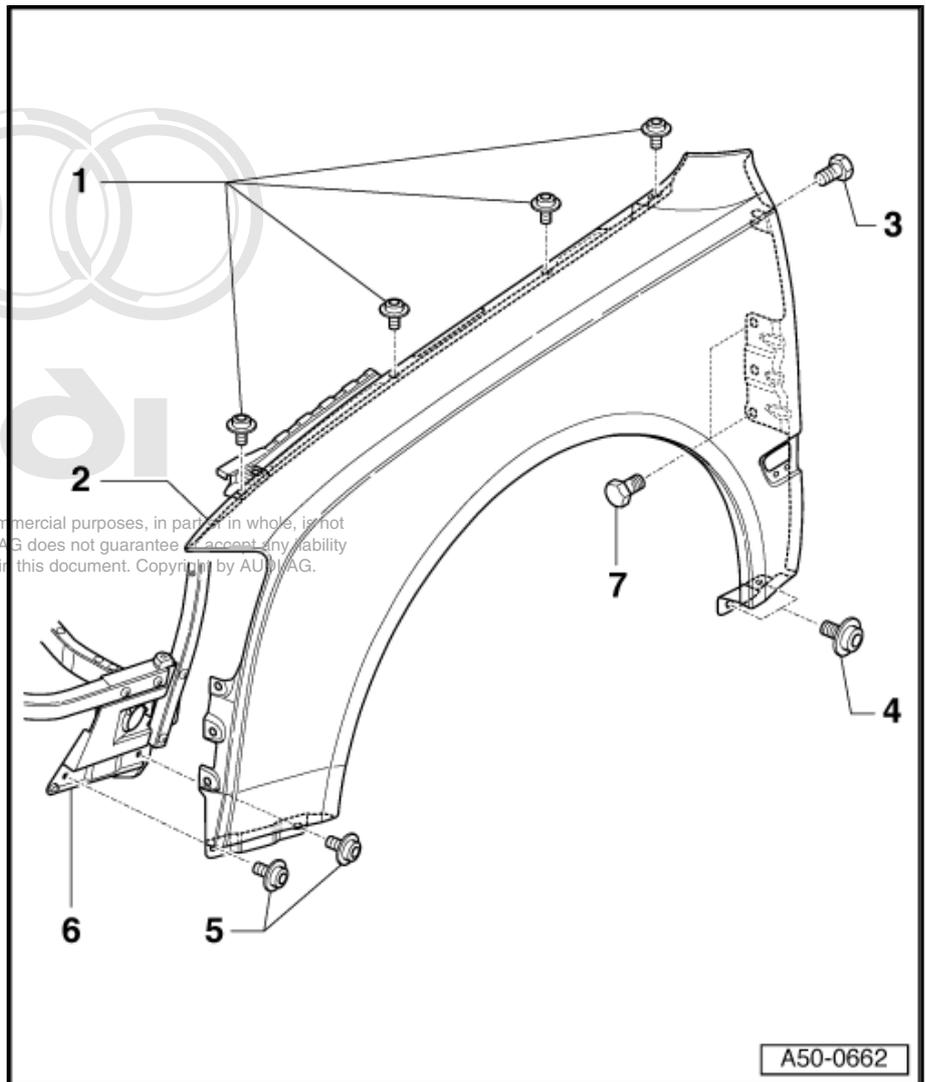
- 8 Nm

6 - Front brace

- Attachment points ⇒ [page 9](#).

7 - Bolt with washer

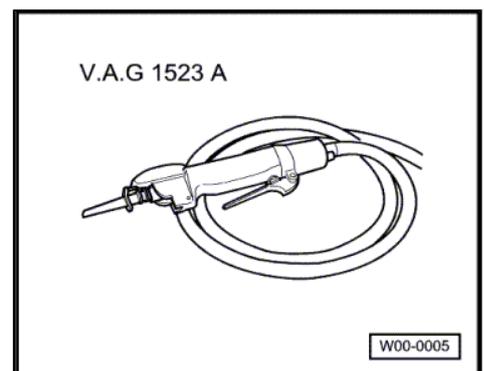
- 8 Nm
- Bolts on left side are located behind adaptive suspension pump.
- Bolts on left side are located behind washer fluid reservoir.



Positioning template for S8 cover

Special tools and workshop equipment required

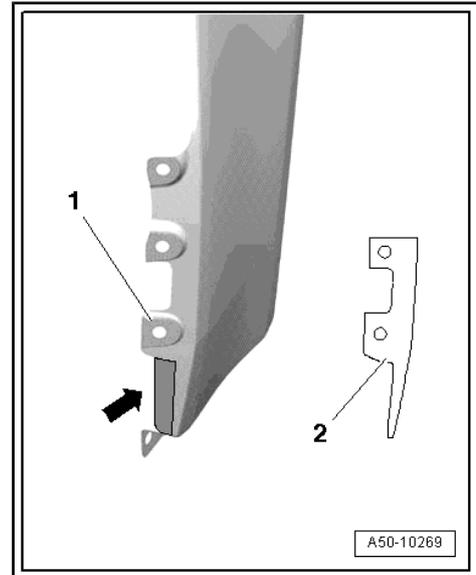
- ◆ Pneumatic sabre saw -V.A.G 1523A-



**Note**

Template is supplied together with new cover.

- Align template according to holes and body contour and mark area to be cut out with a felt-tip pen.
- Cut out marked area -arrow- with pneumatic sabre saw -V.A.G 1523A- and protect cut edges against corrosion.



1.6 Lower bracket for wing - exploded view

1 - Wing

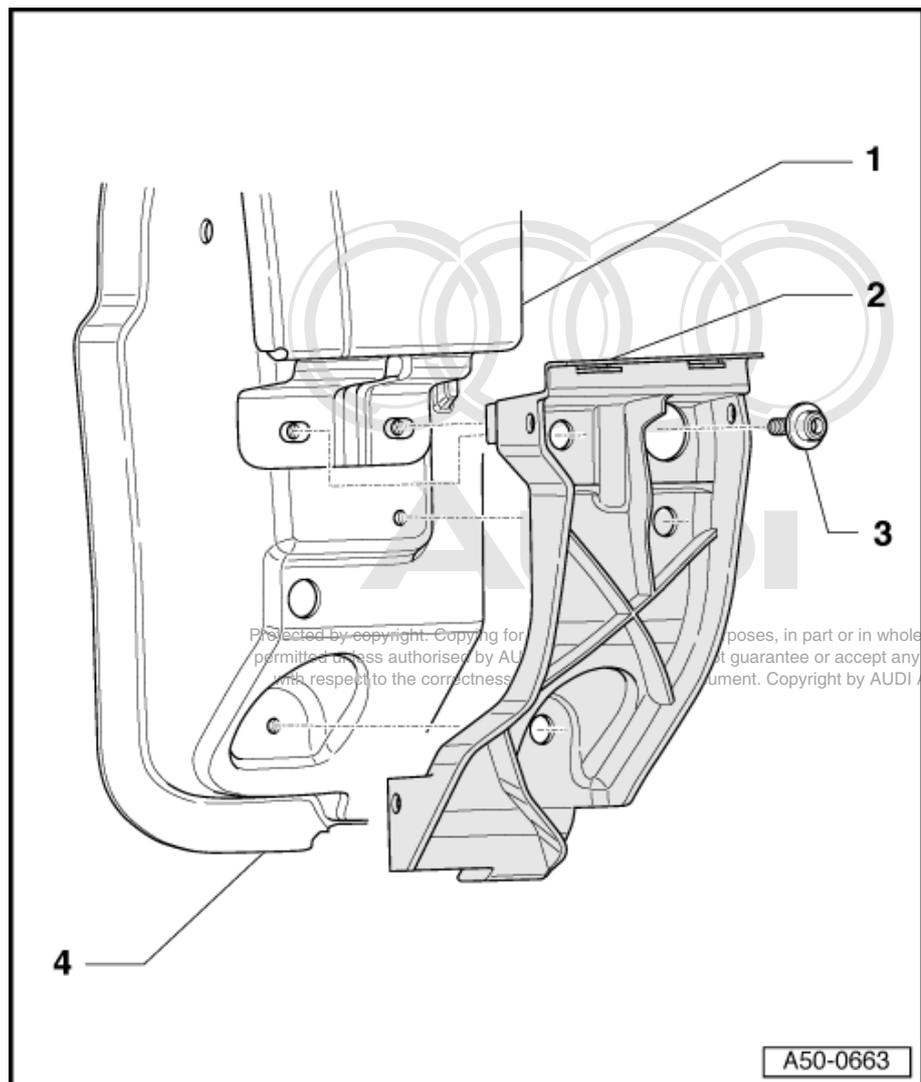
2 - Bracket for wing

- Remove cover (top) for side member trim.
- Unscrew bolts at top of side member trim approx. as far as B-pillar.
- Push side member trim to side until bolts for bracket can be unscrewed.
- Detach bracket and unscrew bolts for wing (bottom).

3 - Torx bolt

- 8 Nm

4 - Outer -A- pillar



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1.7 Centre bracket for wing - exploded view

1 - Multi-point socket head bolt

- 25 Nm
- Bolted to impact absorber from behind

2 - Brace

- Attachment points

3 - Torx bolt

- 8 Nm

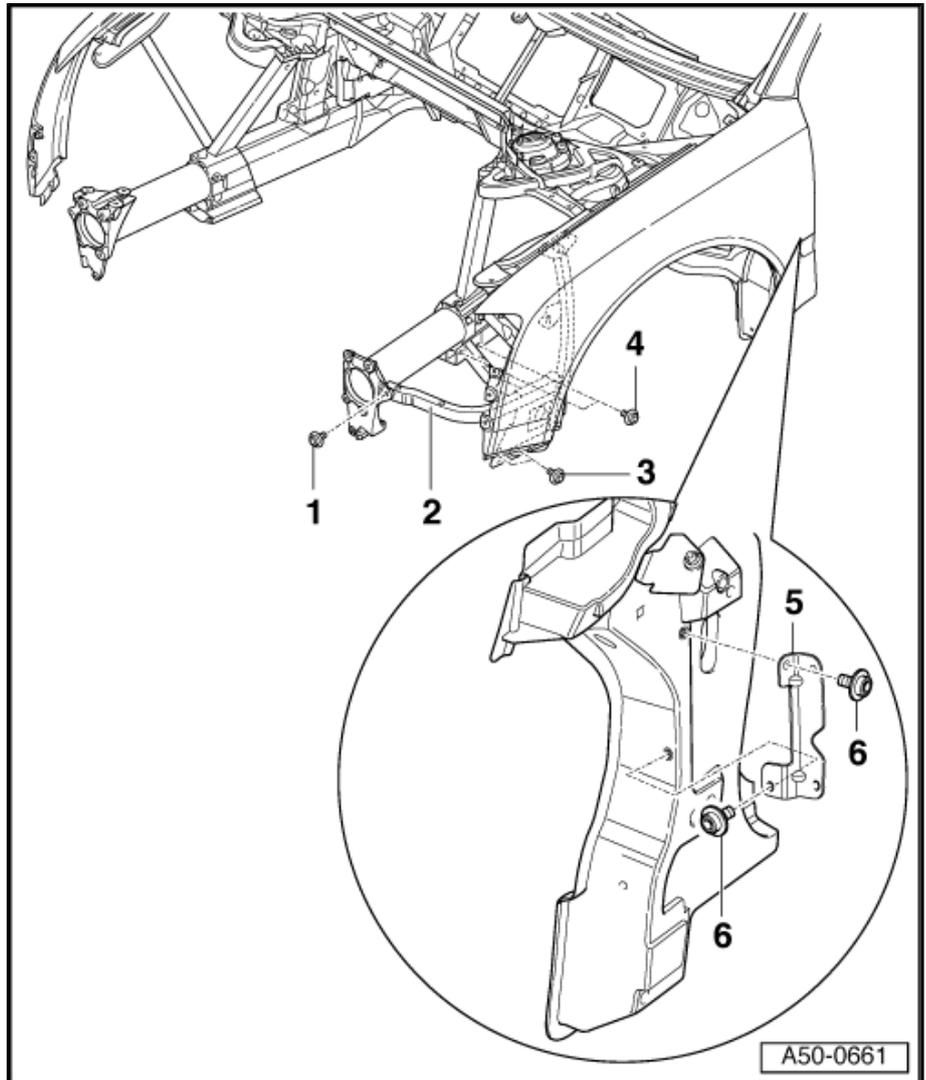
4 - Torx bolt

- 25 Nm

5 - Bracket for wing

6 - Torx bolts

- 8 Nm



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55 – Bonnet, rear lid

1 Bonnet

1.1 Removing and installing bonnet

1 - Bonnet

- Removing:
- Unplug electrical connectors.
- Disconnect hose for windscreen washer system and unclip hose.
- Second person is required to support and lift off bonnet.
- Detach gas strut -3- from bonnet -1- ⇒ [page 15](#).
- Slacken off upper nut -4- at bonnet hinge and unscrew lower nut.
- Detach bonnet.
- Installing:
- Install in reverse order.
- Adjusting:
- Align bonnet -1- centrally between the wings.
- Adjust height of bonnet at bonnet lock ⇒ [page 22](#).
- Bonnet can be adjusted according to wings via bump stops ⇒ [page 16](#)
- Panel gaps ⇒ [page 17](#)

2 - Bonnet hinge

- Bonnet -1- must be removed or reliably supported when detaching hinge.
- Removing ⇒ [page 16](#).

3 - Gas strut

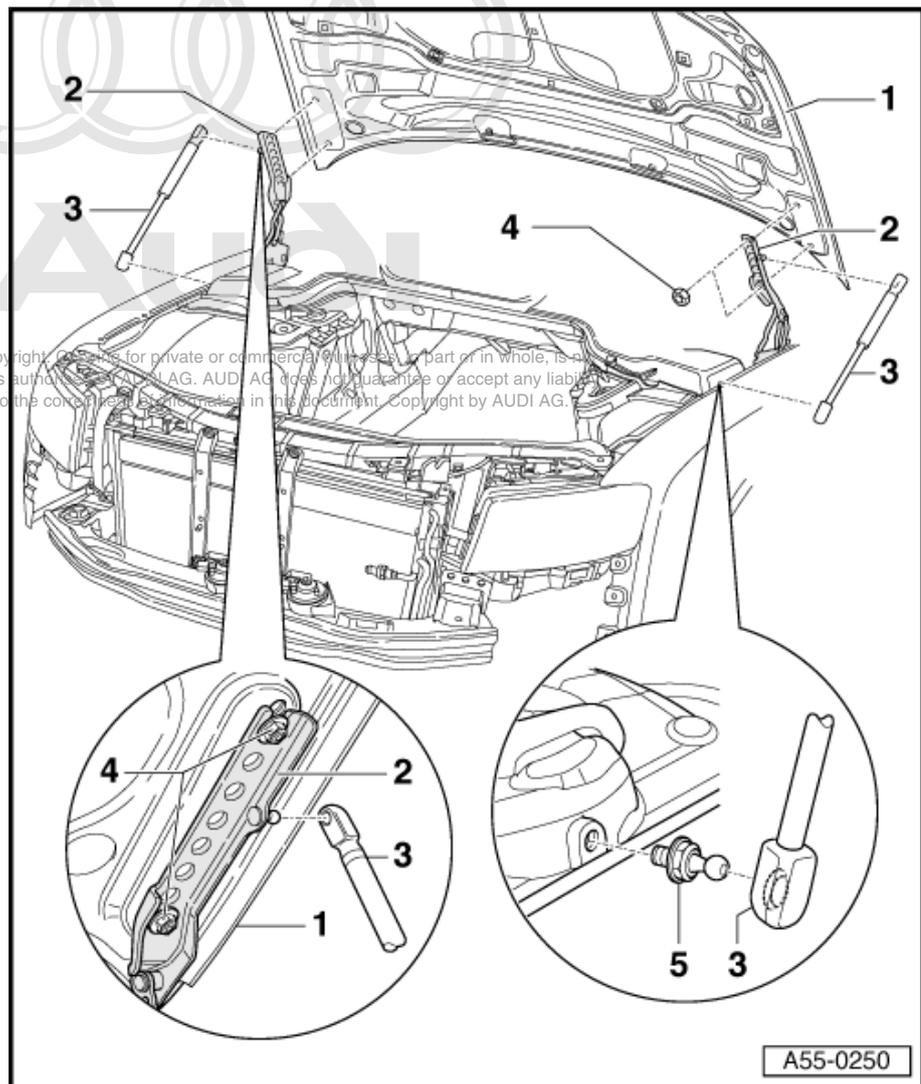
- Removing ⇒ [page 15](#)
- To install, press gas strut onto ball head studs.
- Gas strut cylinder must be fitted at bonnet end.

4 - Ball head studs

- 10 Nm

5 - Torx bolt

- 15 Nm



6 - Hexagon nut

- 15 Nm

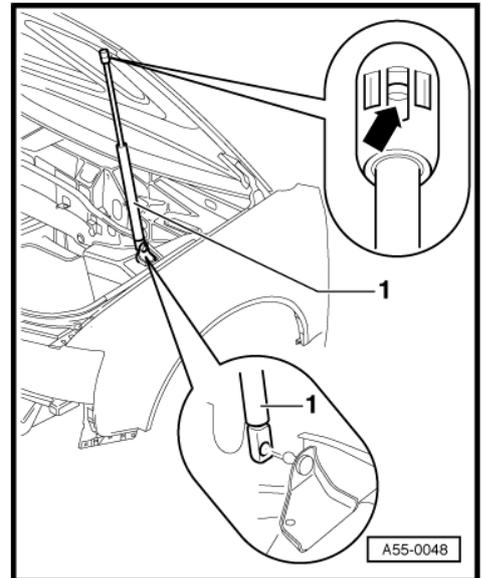
Removing gas strut

Removing:

- Prop up and secure bonnet in open position.
- Use small screwdriver to raise retaining spring -arrow- slightly and detach gas strut -1- from ball head stud.
- Proceed in same manner at lower ball head stud.

Installing:

- To install, press gas strut onto ball head stud and engage.
- Cylinder end of gas strut is installed on body side.

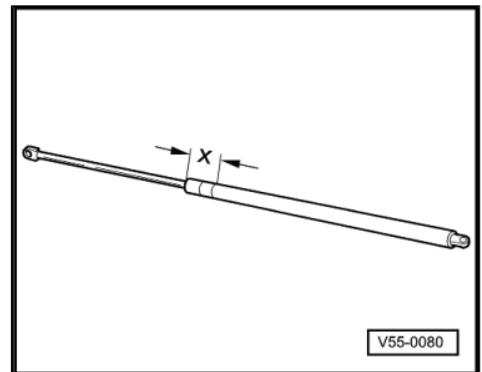


Releasing gas from gas strut

- Clamp gas strut in vice in area x = 50 mm.
- Saw open cylinder of gas strut in first third of overall cylinder length, based on reference edge at piston-rod end.

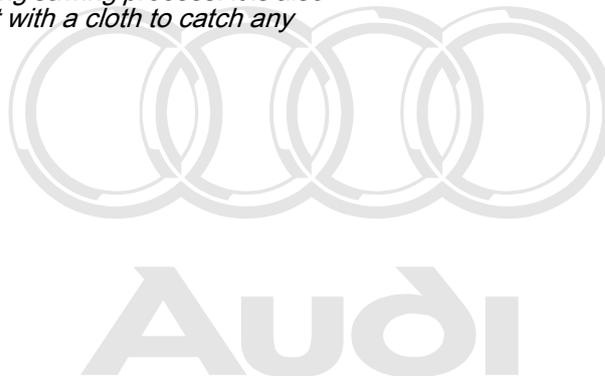
 **WARNING**

Only the section indicated may be clamped in the vice (accident risk!).



Note

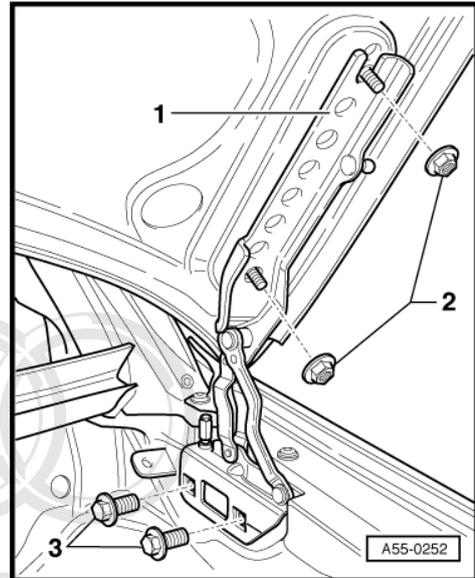
Protective goggles must be worn during sawing process. It is also appropriate to cover area around cut with a cloth to catch any escaping fluid.



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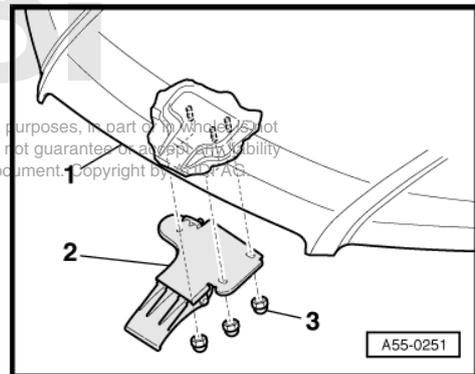
Bonnet hinge

- Bonnet must be removed or properly supported when detaching hinge.
- To remove, unscrew bolts -3- and nuts -2-.
- When installing, tighten bolts and nuts to 25 Nm.



Arrester

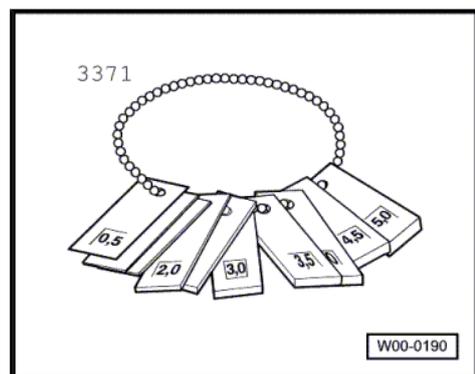
- To remove, unscrew nuts -3- and detach arrester -2- from bonnet -1-.
- When installing tighten nuts to 11 Nm.



1.2 Adjusting bonnet

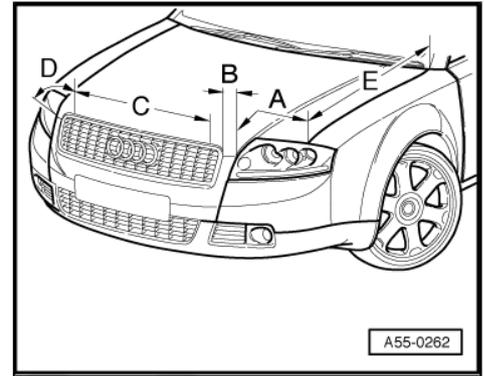
Special tools and workshop equipment required

- ◆ Setting gauge -3371-



Panel gaps

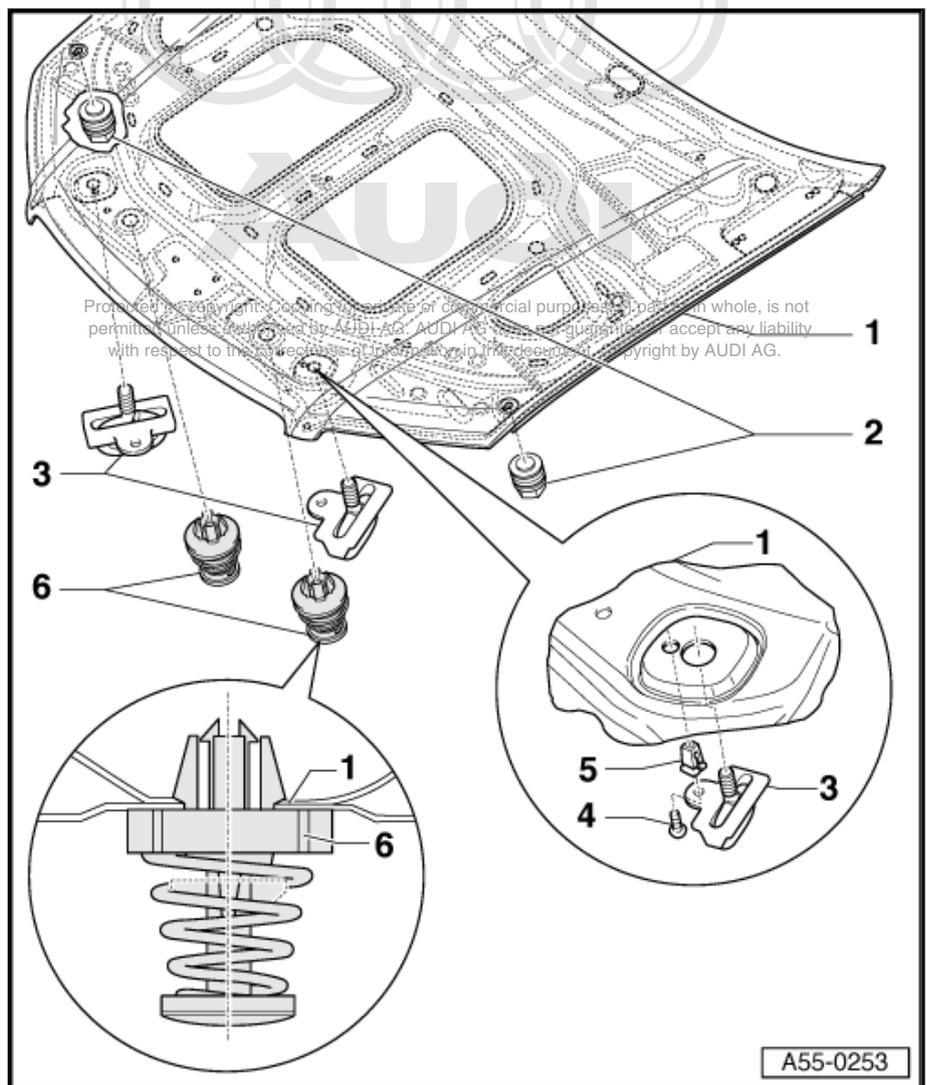
- ◆ Dimension -A- = 4.5 mm \pm 1 mm
- ◆ Dimension -B- = 5 mm \pm 1 mm
- ◆ Dimension -C- = 4.5 mm \pm 1 mm
- ◆ Dimension -D- = 3 mm \pm 0.5 mm
- ◆ Dimension -E- = 3 mm \pm 0.5 mm



1.3 Striker plate at bonnet

1 - Bonnet

- Height can be adjusted via striker plates.
- Screw striker plate fully into bonnet.
- Screw out striker plate by 3 turns.
- Attach locating pin and secure over striker plate with Torx bolt.
- Check flush alignment and panel gaps
⇒ [page 17](#) .
- Closing check for bonnet: Bonnet must fall into bonnet lock from neutral position and engage fully.
- If necessary, correct setting and check again.





2 - Bump stop

- To adjust bonnet, screw out bump stop until bonnet is flush with wing.
- If bump stop setting is correct, bump stop must rest on lock carrier.

3 - Locating pin with striker plate

- Secure locating pin after adjusting bonnet via striker plate.

4 - Torx bolt

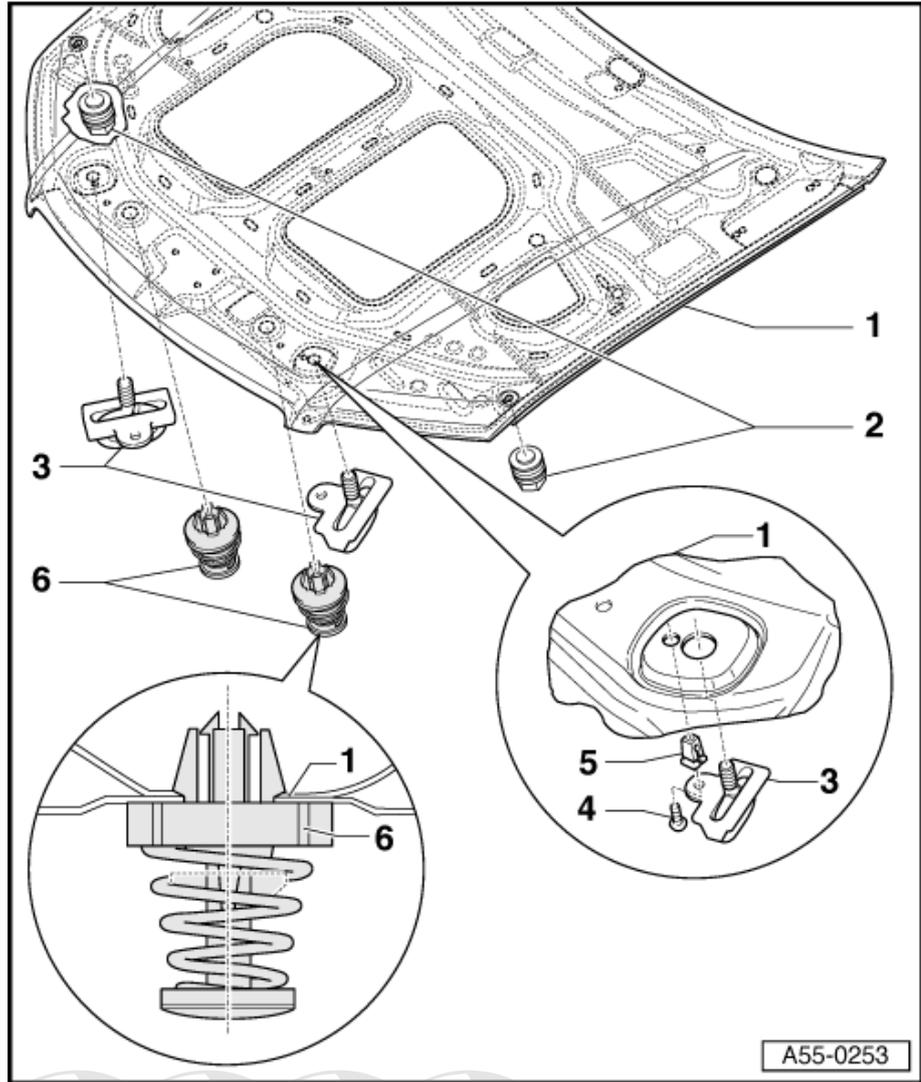
- 2 Nm

5 - Clip

- Inserted in inside of bonnet

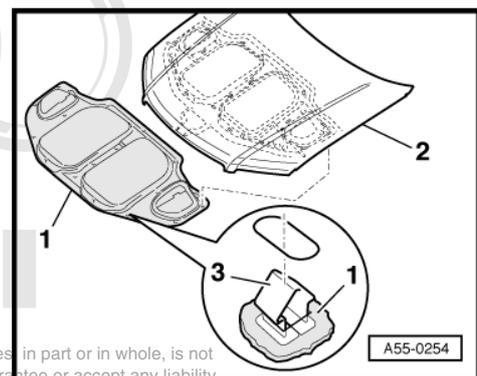
6 - Spring/damper unit

- Clipped to inside of bonnet



Bonnet lining

- Unclip fasteners -3- (18x) and remove bonnet lining -1- from bonnet -2-.



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1.4 Bonnet seal - exploded view

1 - Bonnet seal

- Position seal at left and right sealing elements -3-.
- Working forwards, press seal onto flange.

2 - Plenum chamber seal

- Position seal at left and right of seals -3- making sure that there are no gaps.



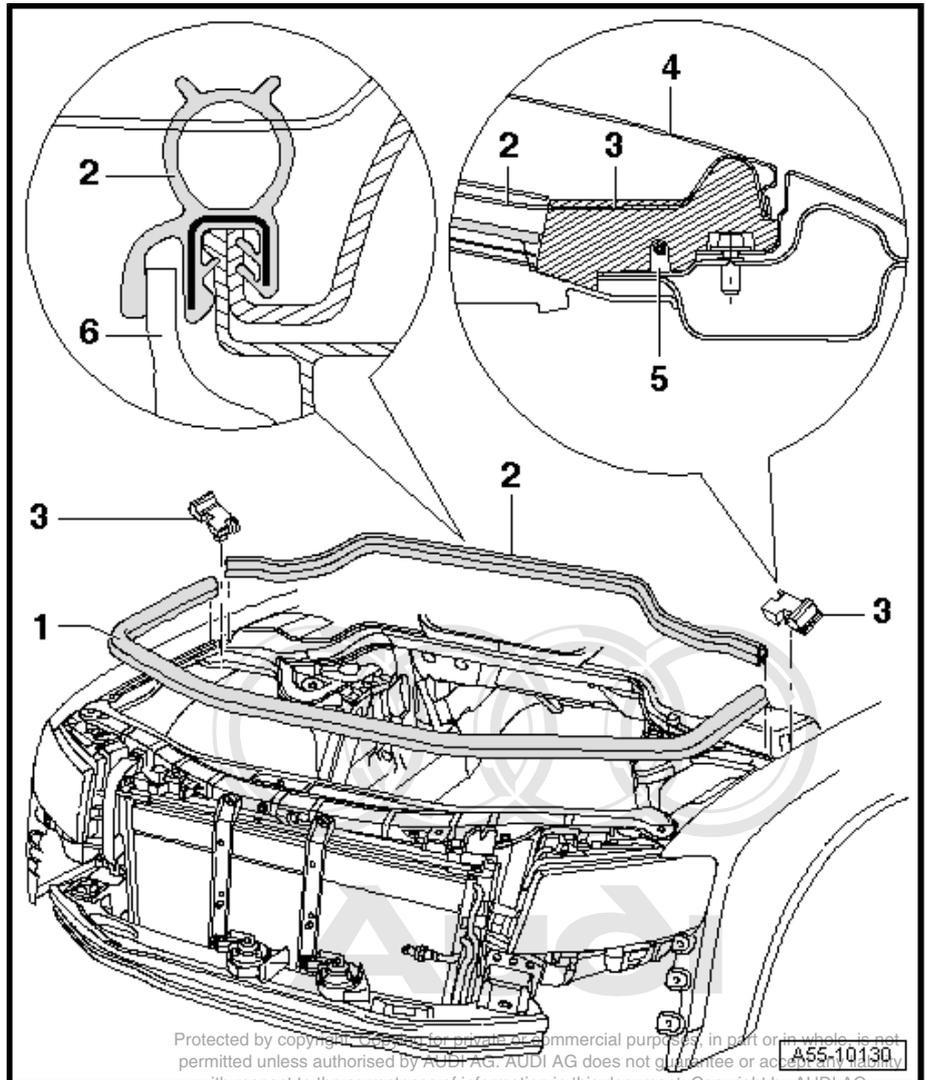
Caution

Make sure that there are no gaps between the seals.

- Press seal onto plenum chamber flange from both sides.

3 - Bonnet seal (right/left)

- Self-adhesive
- Bonding surface must be free of dust and grease
- Peel off protective film before mounting.
- Position Bowden cable in gland -5-.
- Position seal at bolt for securing wing.
- Press seal firmly onto wing and suspension strut mounting cover.



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4 - Bonnet

5 - Bowden cable for bonnet release

6 - Insulation for bulkhead

- Make sure that insulation for bulkhead does not make contact with seal flange.
- Front section of seal must be over insulation.
- Only tighten plastic nuts on insulation top after seal has been fully installed.

1.5 Bonnet release cable - exploded view

1 - Bonnet lock (right/left)

- ❑ Removing and installing
⇒ [page 22](#)

2 - Cable for lock (right-side)

3 - Cable for lock (left-side)

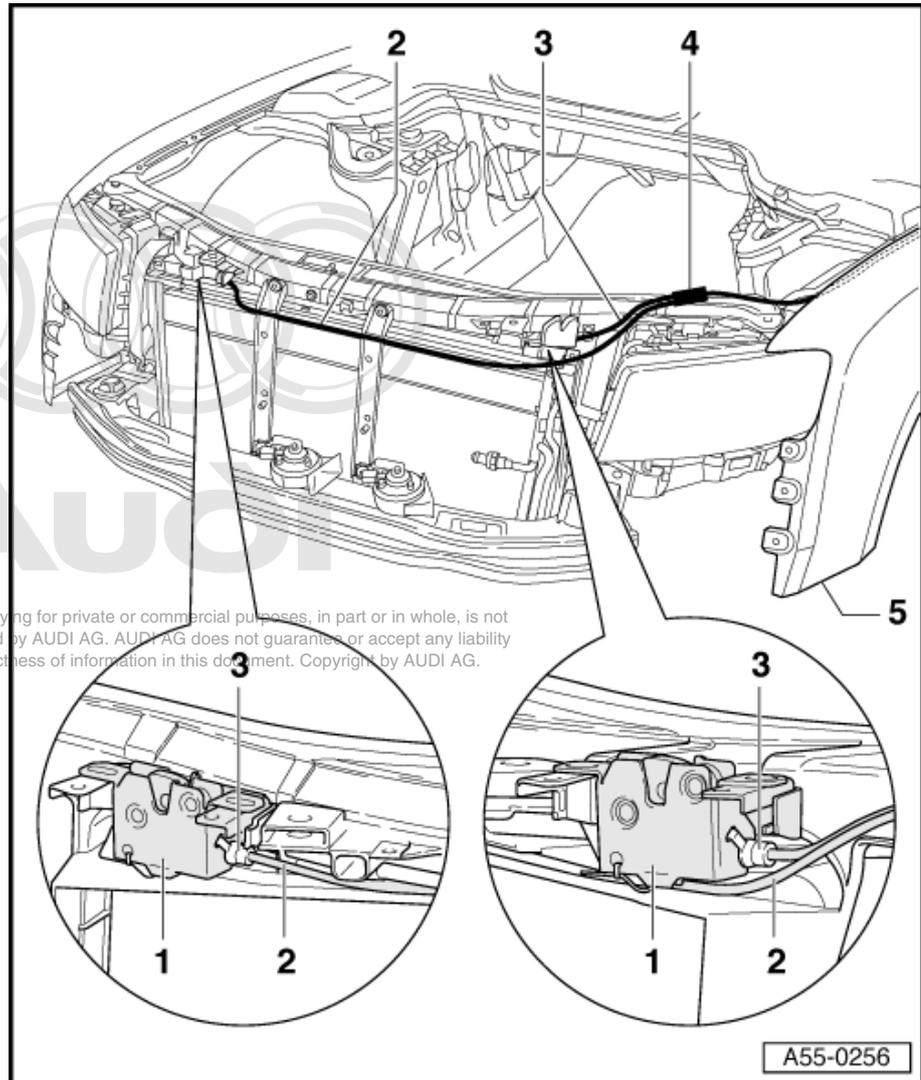
- ❑ Adjusting cable
⇒ [page 20](#)
- ❑ Use adjuster screw to set cable so that bonnet opens simultaneously on left and right when release lever is actuated slowly.

4 - Cable junction

- ❑ Clip in cables

5 - Wing

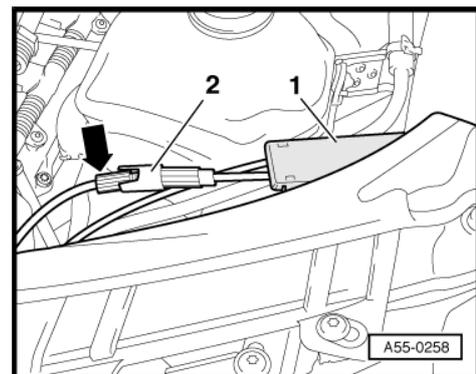
- ❑ Cable routing at wing
⇒ [page 21](#)



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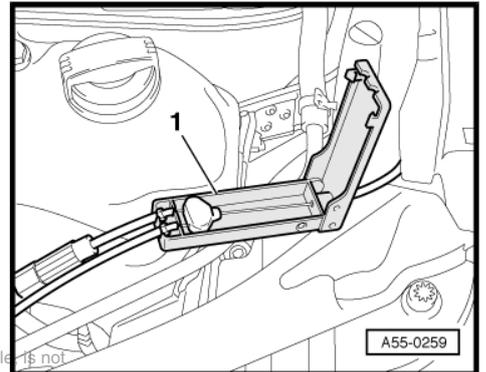
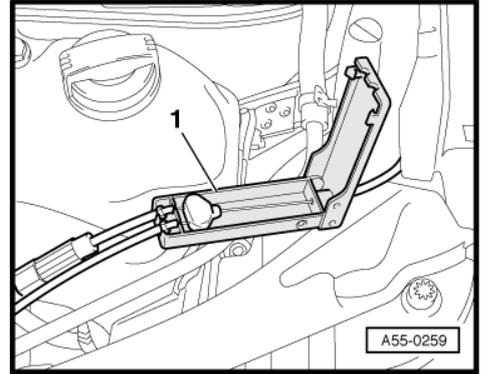
Adjuster screw for cable

- Cable must be set so that bonnet opens simultaneously on left and right when release lever is actuated slowly.
- Set adjuster screw -arrow- accordingly at adjuster -2-.
- Secure cable junction in position at lock carrier with clip -3-.
- Adjuster screw -2-



Clipping cable into junction

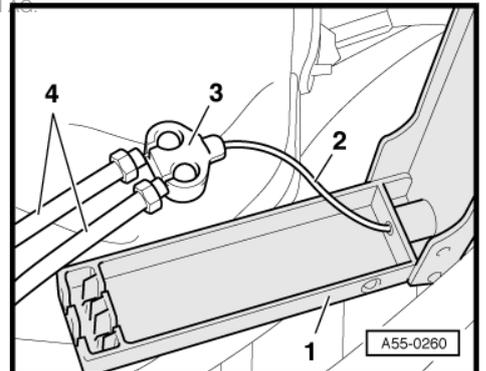
- Pull cable junction -1- sideways out of lock carrier and open it as shown.



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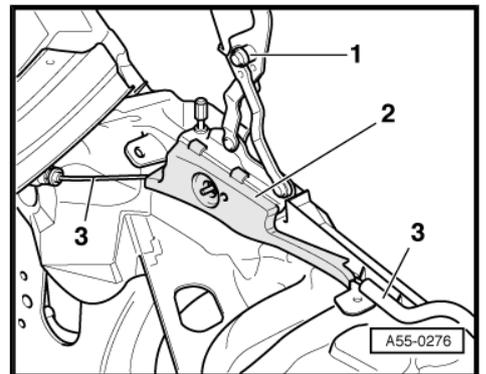
Engaging cable in connecting piece

- Insert cables -4- in connecting piece -3-, as shown.
- Give connecting piece 180° turn and insert in junction housing -1-.
- Cable -2- to passenger compartment



Cable routing at wing

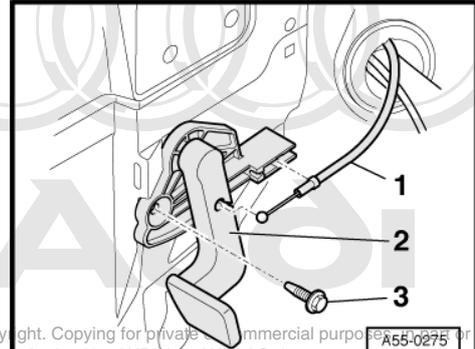
- Route cable -3- beneath cover -2- at bonnet hinge -1- as shown.
- Slide cable through bulkhead grommet into passenger compartment.





Clipping cable into release lever

- To remove release lever -2-, remove bolt -3-.
- When installing, first clip cable -1- into release lever and then press it into support bracket.



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A55-0275

1.6 Removing and installing bonnet lock

1 - Torx bolt

- 9 Nm

2 - Bracket for bonnet lock

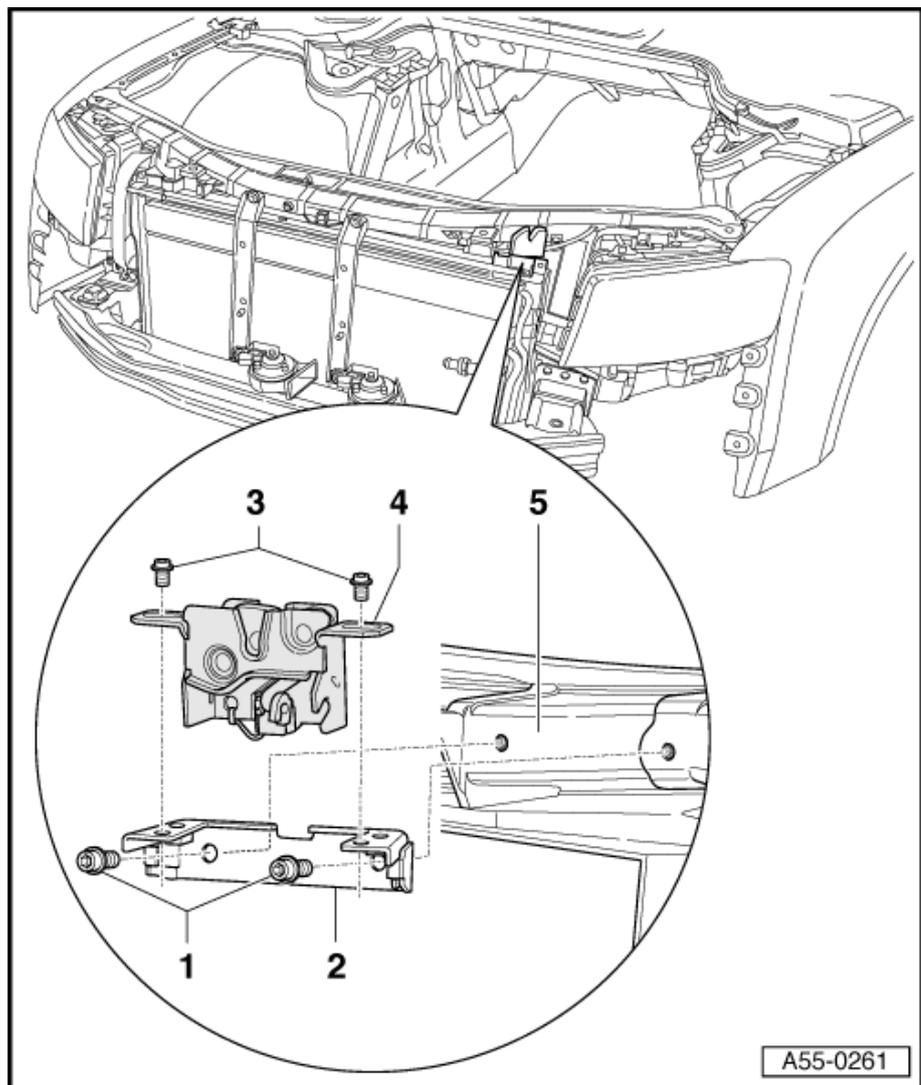
3 - Torx bolt

- 9 Nm

4 - Bonnet lock

- Before removing bonnet lock, remove radiator grille and unplug electrical connector for bonnet lock.
- Prior to removal, disengage cable at bonnet lock, unscrew Torx bolts -3- and detach bonnet lock from bracket.
- Height can be adjusted via bolts -1-.
- Lateral adjustment is made by way of bolts -3-.

5 - Lock carrier

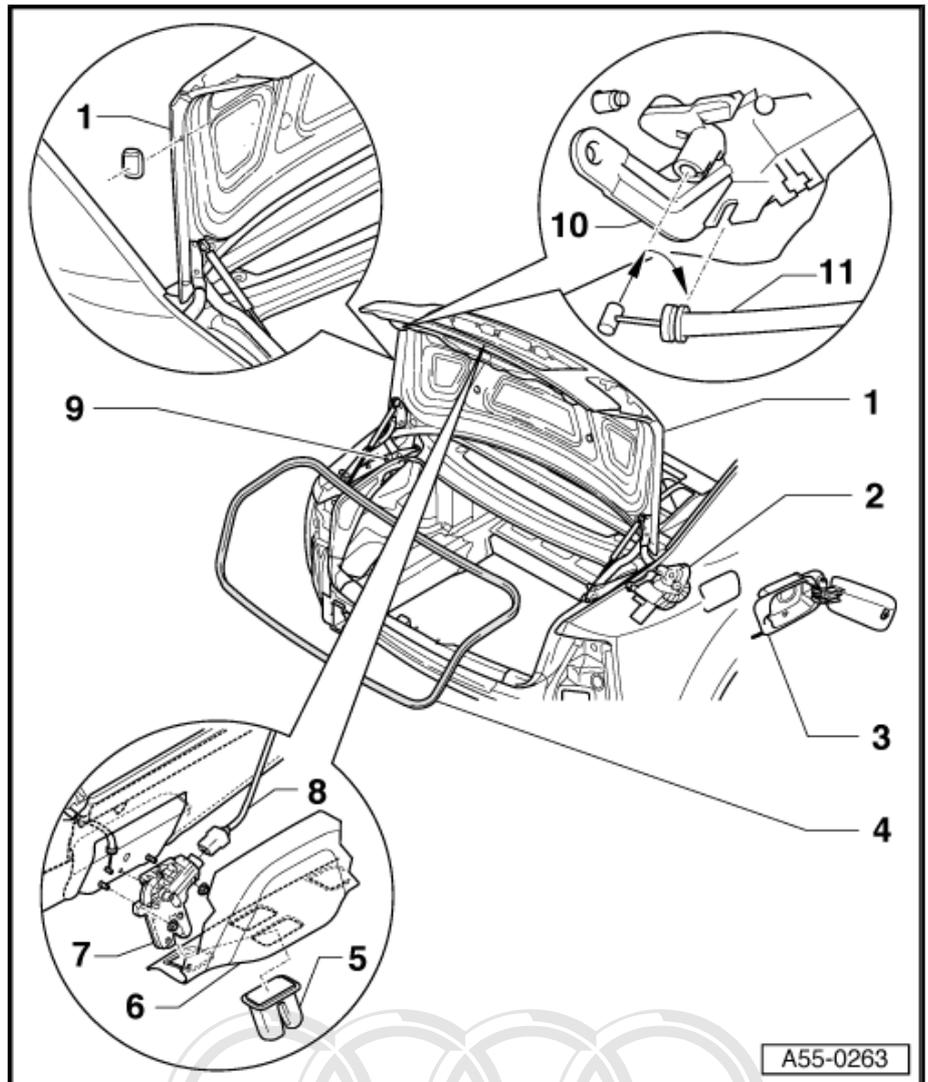


A55-0261

2 Rear lid

2.1 Rear lid - exploded view

- 1 - Rear lid
- 2 - Rear lid drive
 - Removing ⇒ [page 28](#) .
- 3 - Fuel tank flap
 - Removing ⇒ [page 32](#) .
- 4 - Seal for rear lid
 - Removing ⇒ [page 24](#) .
- 5 - Lock cover
 - Clipped into rear lid trim
- 6 - Rear lid trim
 - Removing ⇒ Rep. Gr. 70
- 7 - Rear lid lock
 - Removing ⇒ [page 27](#) .
- 8 - Electrical wire
- 9 - Removing rear lid hinge
⇒ [page 24](#)
- 10 - Mounting for lock cylinder
- 11 - Bowden cable

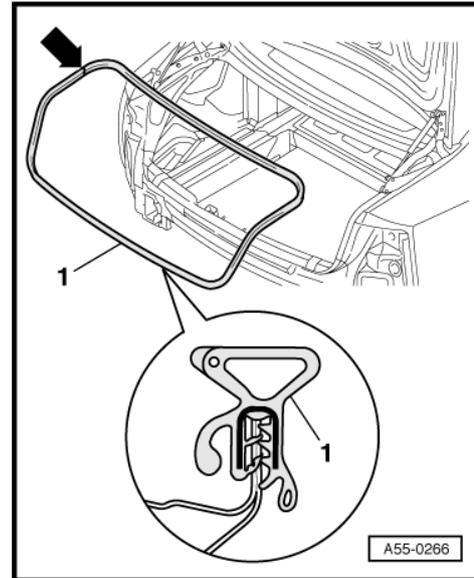


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Seal for rear lid

- Align joint -arrow- in vehicle with rear lid hinge and press seal -1- onto body flange all around.



2.2 Removing and installing rear lid hinge

Rear lid hinge (left-side)

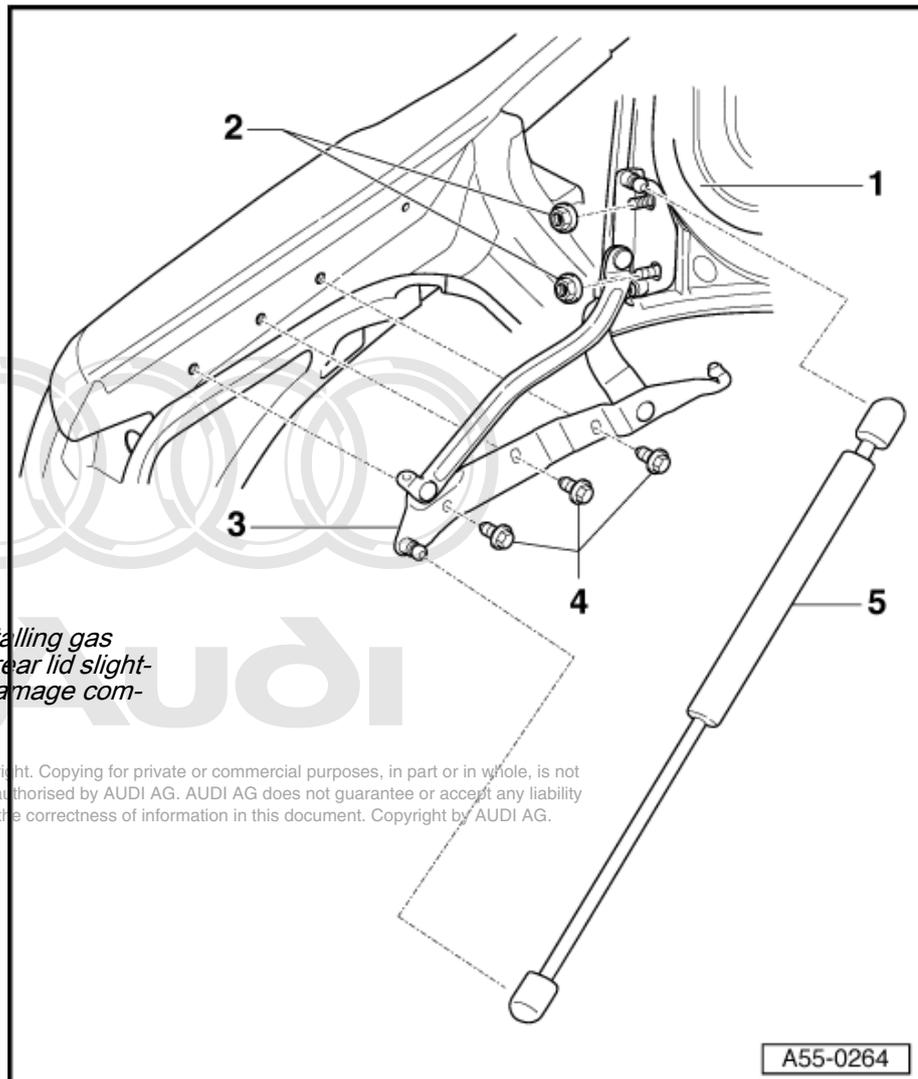
- 1 - Rear lid
- 2 - Hexagon nuts
 - 32 Nm
- 3 - Rear lid hinge
 - Rear lid must be removed or properly supported when detaching hinge.
 - To remove, unscrew bolts -4- and nuts -2-.
- 4 - Hexagon bolts
 - 32 Nm
- 5 - Gas strut
 - Releasing gas
=> [page 26](#)



Note

When removing or installing gas strut, push back open rear lid slightly, taking care not to damage components.

- Removing: Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability for the correctness of information in this document. Copyright by AUDI AG.
- Use screwdriver to raise each end of retaining spring slightly and detach gas strut from ball head studs.
- Installing:
- Gas strut cylinder must be fitted at rear lid end.
- Clip in gas strut first at bottom and then at top.



Rear lid hinge (right-side)

i Note

On vehicles with no rear lid drive, mounting bracket is secured with an additional bolt.

1 - Hexagon nut

- 23 Nm

2 - Hexagon bolt

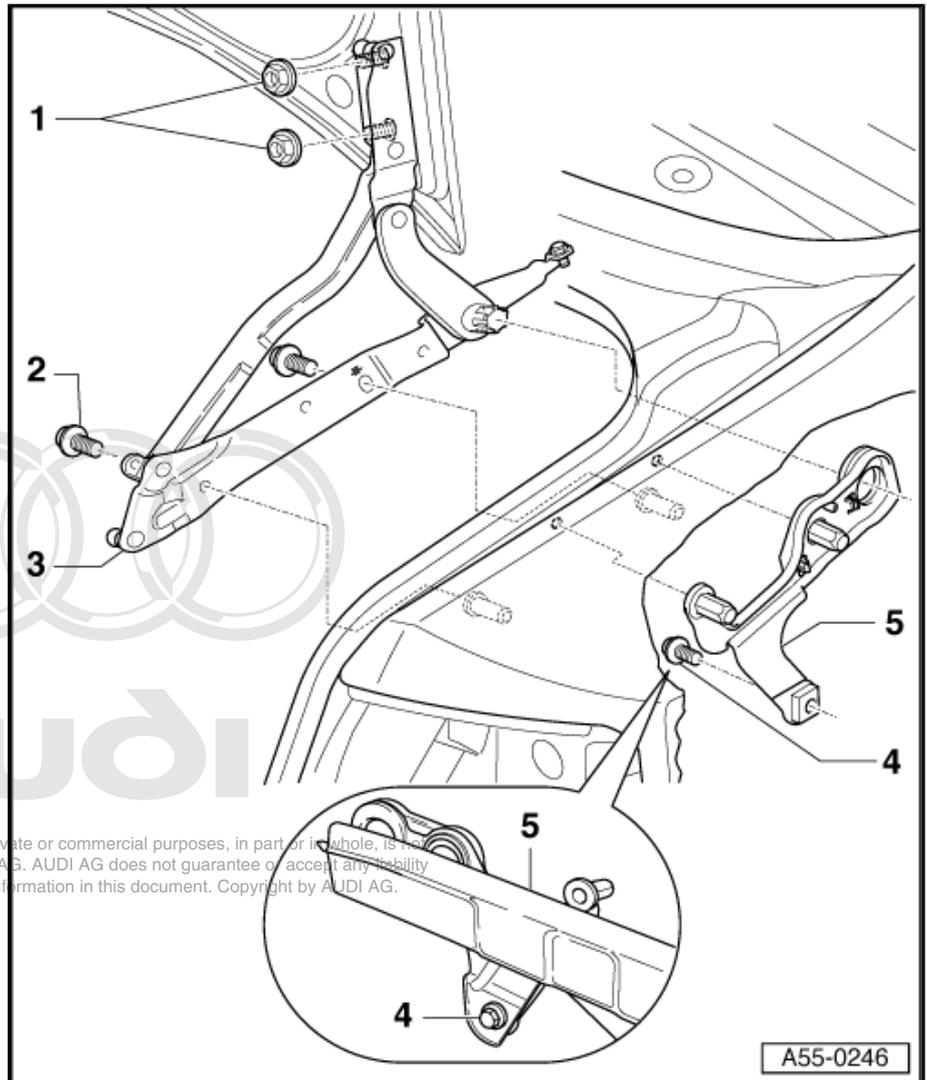
- 23 Nm

3 - Hinge (right-side)

4 - Hexagon bolt

- 23 Nm
- Only fitted on vehicles with no electric rear lid drive

5 - Mounting bracket





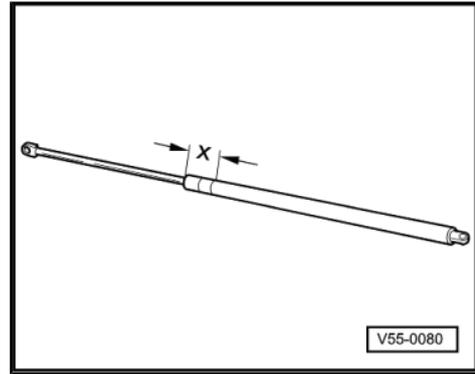
Releasing gas from gas strut

- Clamp gas strut in vice in area x = 50 mm.
- Saw open cylinder of gas strut in first third of overall cylinder length, based on reference edge at piston-rod end.



WARNING

Only the section indicated may be clamped in the vice (accident risk!).



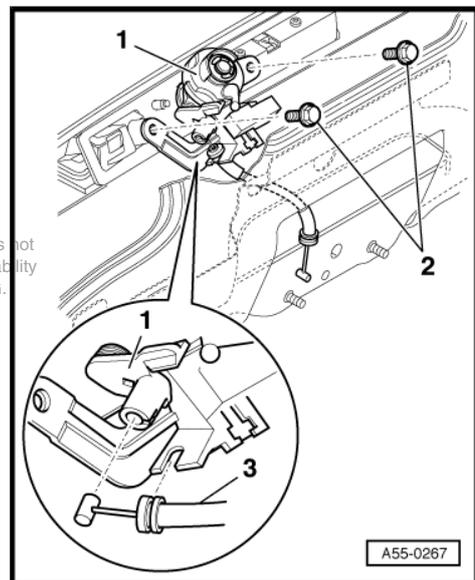
Note

Protective goggles must be worn during sawing process. It is also appropriate to cover area around cut with a cloth to catch any escaping fluid.

Wiring guide

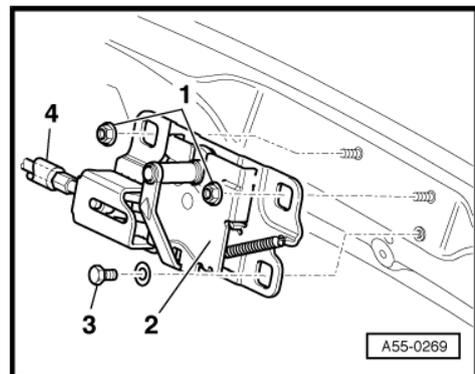
- Push cable guide onto hinge, as shown, and press into mounting at rear.
- Wiring to rear lid

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Mounting for lock cylinder

- Rear lid trim removed
- To remove lock cylinder -1-, unscrew bolts -2-, disconnect cable -3- and remove lock cylinder mounting from rear lid.



2.3 Rear lid lock and lock cylinder - exploded view

1 - Rear lid lock

- Removing:
- Rear lid trim removed
- Electrical connector unplugged
- Bowden cable -8- disengaged
- Unscrew nuts -3- and pull out rear lid lock.
- Installing:
- Engage Bowden cable of lock cylinder in lock.
- Insert lock and tighten nuts -3- to 8 Nm.
- Plug in electrical connector.

2 - Electrical connector

- Unplug when removing rear lid lock

3 - Hexagon nut

- 8 Nm

4 - Rear lid trim

- Removing ⇒ Rep. Gr. 70

5 - Lock cover

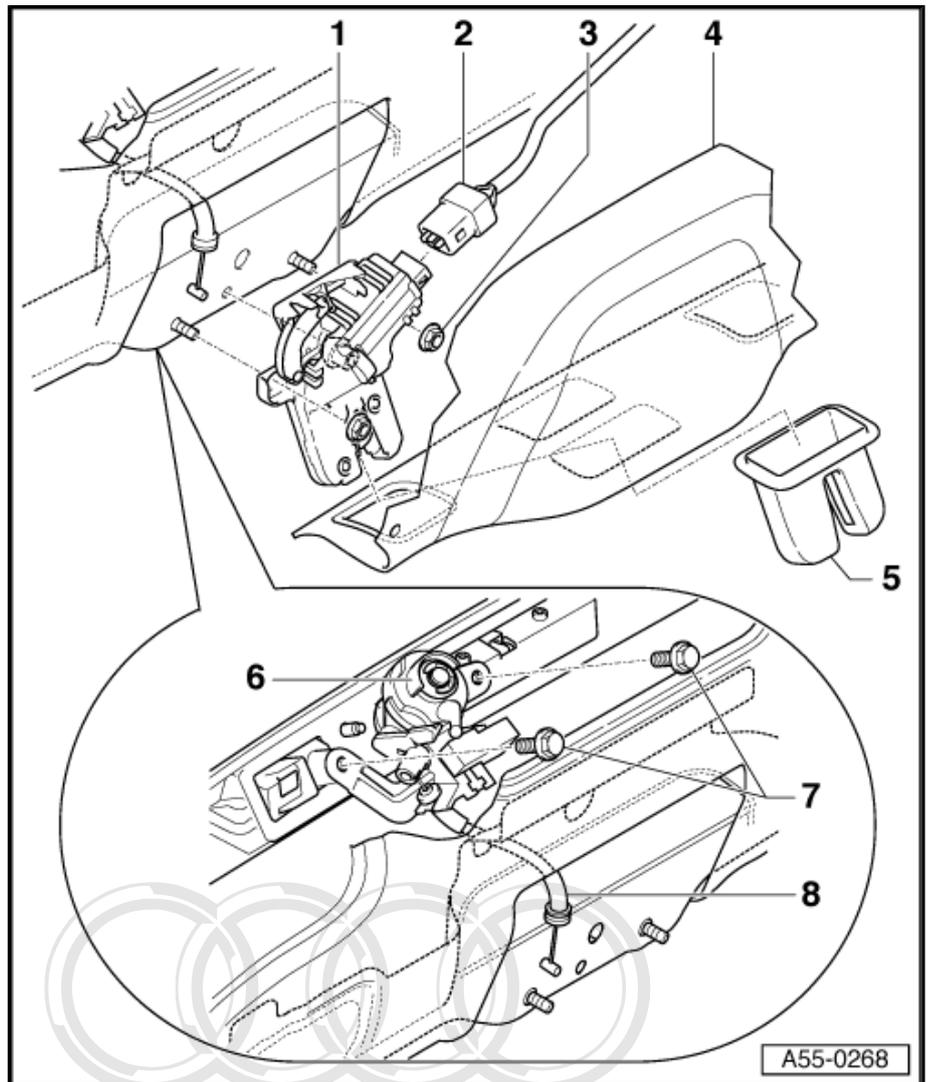
- Clipped into trim

6 - Lock cylinder

7 - Hexagon bolts

- 8 Nm

8 - Cable



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2.4 Rear lid drive - exploded view

1 - Caps for bolts

2 - Hexagon bolts

□ 21 Nm

3 - Rear lid hinge

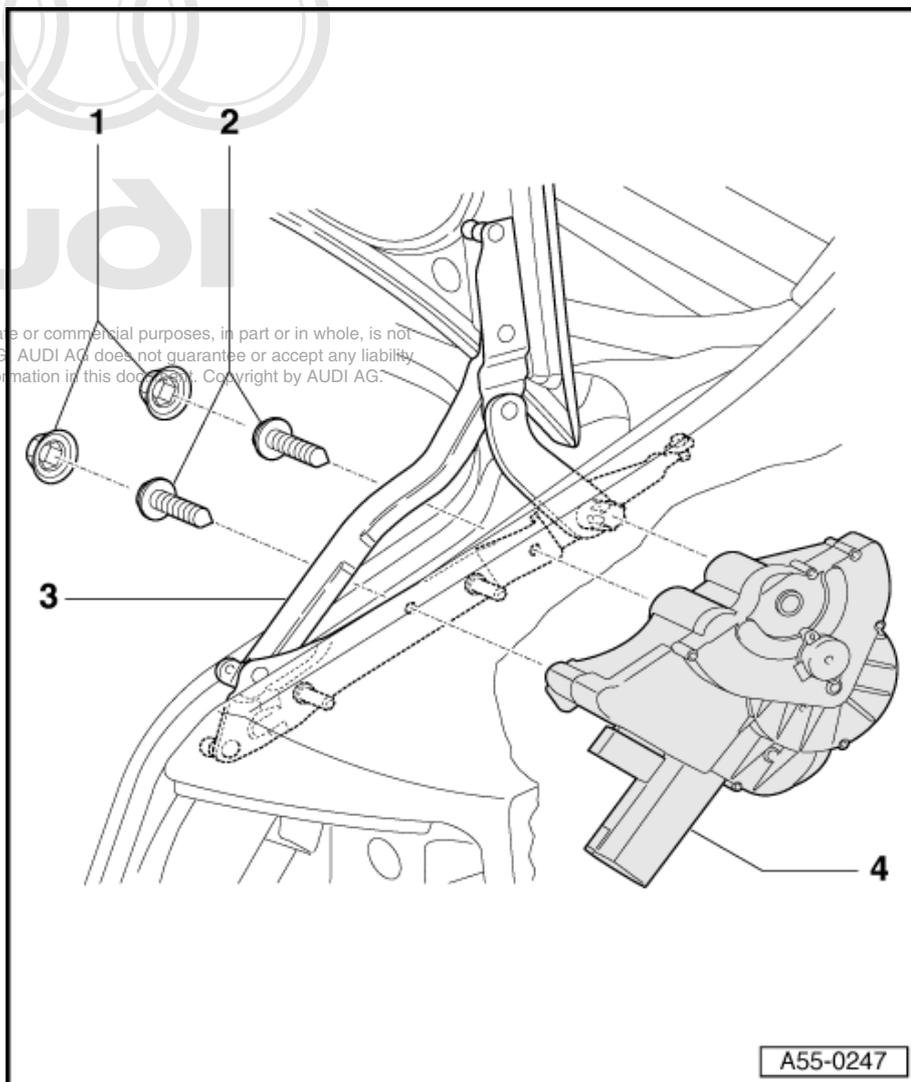
□ Removing ⇒ [page 24](#) .

4 - Rear lid drive

□ Installing and installation position

⇒ [page 29](#)

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2.5 Installation position of rear lid drive

1 - Rear lid

2 - Seal for rear lid hinge

- Clipped into side of drive

3 - Drive shaft for rear lid drive

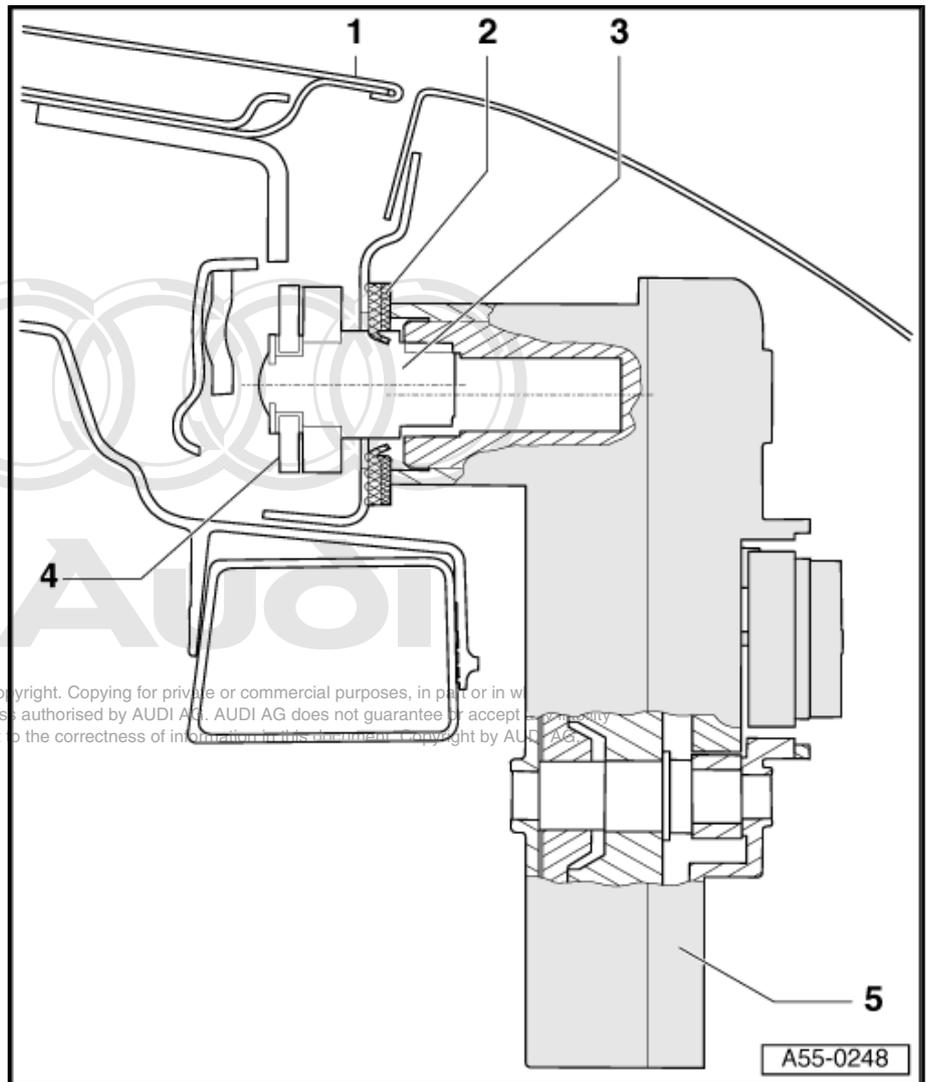
- Drive shaft has multiple splines for power transmission.
- One of these is wider than the others.
- Drive motor can therefore only be fitted in "Rear lid open" position.

4 - Rear lid hinge (right-side)

- Removing ⇒ [page 24](#) .

5 - Rear lid drive

- Replacement motors are always supplied in "Rear lid open" position.



2.6 Drive for power latching system - overview

1 - Drive for power latching system with noise insulation

- Fitted behind starter battery in rear right side panel

2 - Bowden cable

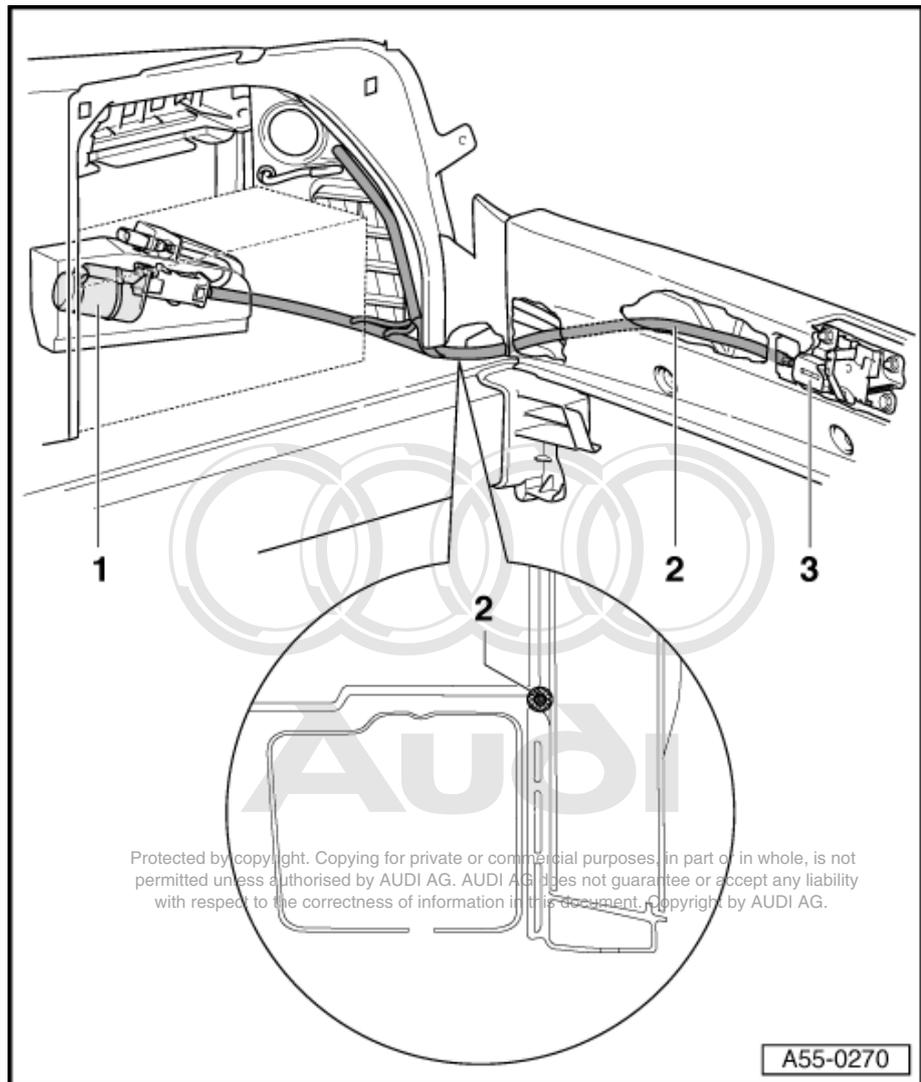
- Routed as shown

3 - Striker plate with power latching system

! WARNING

Striker plate is only to be installed in "Rear lid closed" position. If striker plate is fitted in rear lid open position and lid moved to installation position (rear lid closed), lid may be damaged on closing due to high closing forces of power latching system.

- Adjusting ⇒ [page 30](#) .

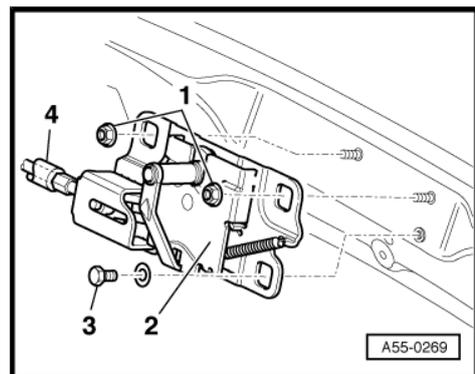


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A55-0270

Striker plate with power latching system

- On fitting new latching plate -2- or new drive, latching plate is only to be inserted in vehicle in "Rear lid closed" position (as-delivered condition).
- Tighten nuts -1- and hexagon bolt -3- to 10 Nm.
- Now close rear lid.
- With rear lid closed, measure projection with respect to side panel.
- Open rear lid and adjust striker plate by measured amount.
- Close rear lid, check position with respect to side panel and correct if necessary.
- Fine adjustment can be made via adjuster screw -4-.

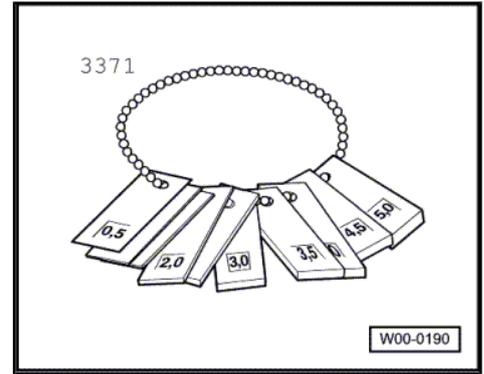


A55-0269

2.7 Adjusting rear lid

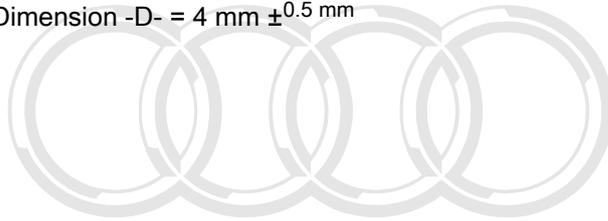
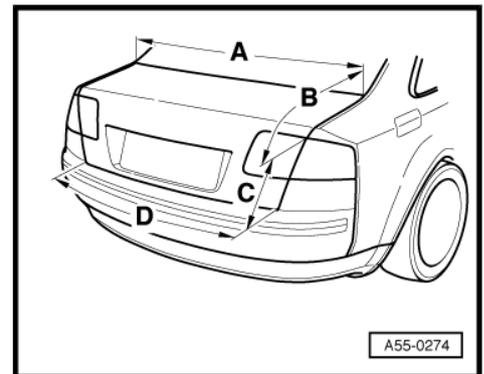
Special tools and workshop equipment required

◆ Setting gauge -3371-



Panel gaps

- ◆ Dimension -A- = 5 mm \pm 0.5 mm
- ◆ Dimension -B- = 3 mm \pm 1 mm
- ◆ Dimension -C- = 3 mm \pm 1 mm
- ◆ Dimension -D- = 4 mm \pm 0.5 mm



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3 Fuel tank flap

3.1 Fuel tank flap - exploded view

1 - Tank flap control motor

- ❑ Slacken off motor bolts in clockwise direction.
- ❑ Tighten securing bolts in anti-clockwise direction using 3 mm hexagon head.

2 - Grommet

- ❑ Seal inserted into outside of wheel housing

3 - Mounting element

- ❑ Slide in mounting element in direction of arrow until it engages.

4 - Drain hose

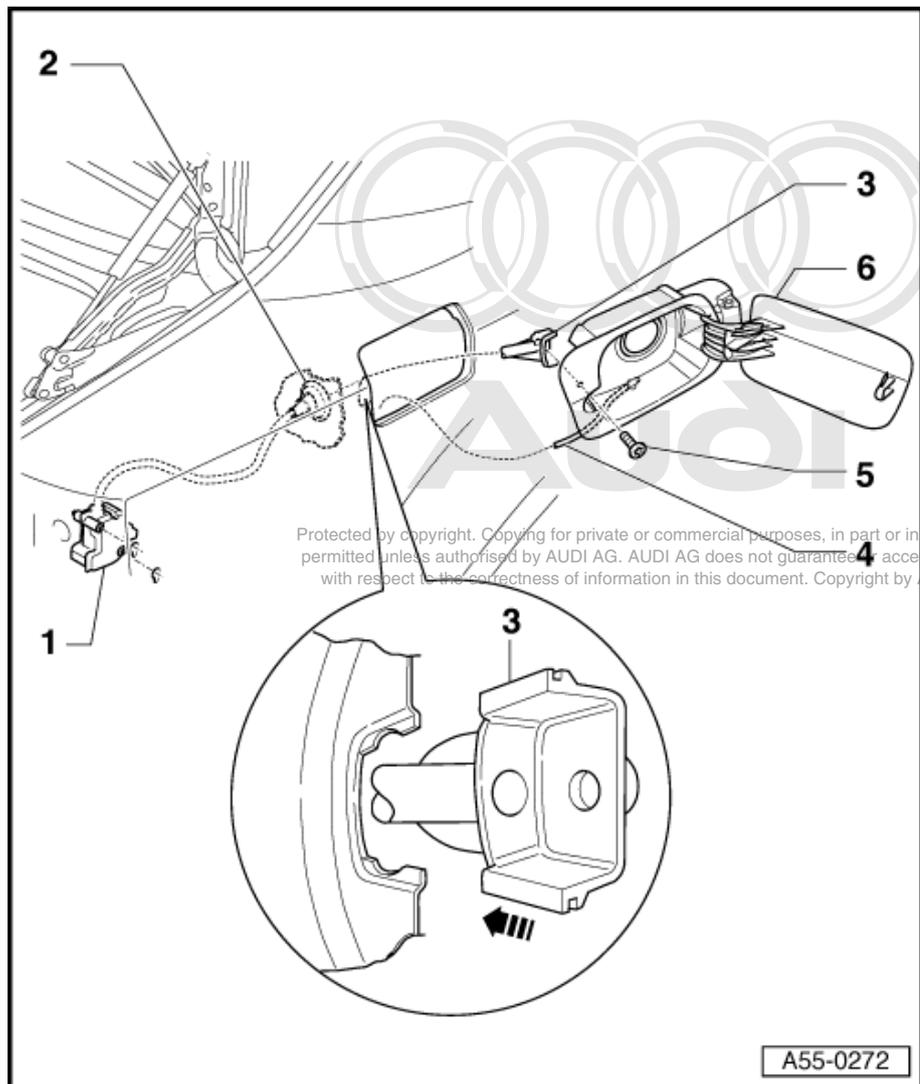
- ❑ Pull drain hose through rubber cup as far as it will go.

5 - Torx bolt

- ❑ 1.5 Nm

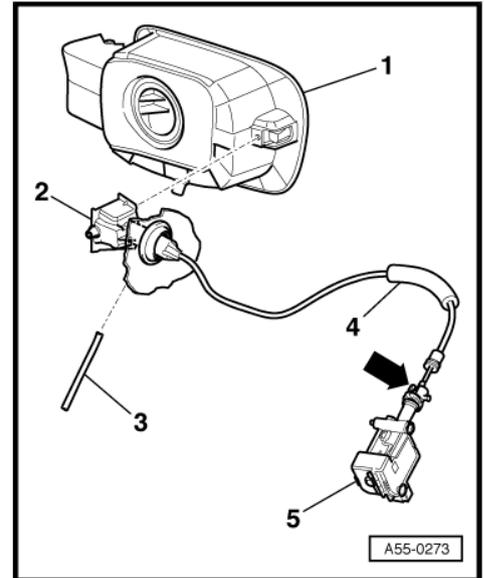
6 - Tank flap cup

- ❑ To remove, unscrew bolt -5- and start by pulling out cup over filler neck on side of bolt.
- ❑ Then pull out cup towards rear at an angle.
- ❑ To remove, disengage Bowden cable at positioner ⇒ [page 33](#) and then lift out.



Positioner

- To remove positioner -5-, slacken both securing bolts by turning clockwise (3 mm hexagon head).
- Pull positioner out of elongated holes.
- Disengage Bowden cable at positioner -arrow-.
- To remove, lift out Bowden cable -4- together with mounting element -2-.
- Tank flap cup -1- removed
- Fuel drain hose -3-



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57 – Front doors, door components, central locking

1 Front door

1.1 Removing and installing window frame and window regulator

1 - Window frame

- Mounting panel removed => [page 39](#)
- Can only be removed after detaching door window from window regulator.
- When installing, observe tightening sequence for bolts.
- When installing, start by screwing in all bolts loosely.
- Height of window frame is already set by fitted flange bolts -4- and -5-.
- After setting angle, tighten bolts to 32 Nm in following sequence: -4-, -5-, -6-, -7-, -8-, -9- and -10-.

2 - Door window

- Fitted during assembly of window frame
- Can be renewed with mounting panel and window frame fitted.

3 - Exterior mirror

- Removing => [page 175](#).

4 - Fitted flange bolt

- Multi-point socket head
- 32 Nm

5 - Fitted flange bolt

- Multi-point socket head
- 32 Nm

6 - Torx bolt

- 32 Nm

7 - Torx bolt

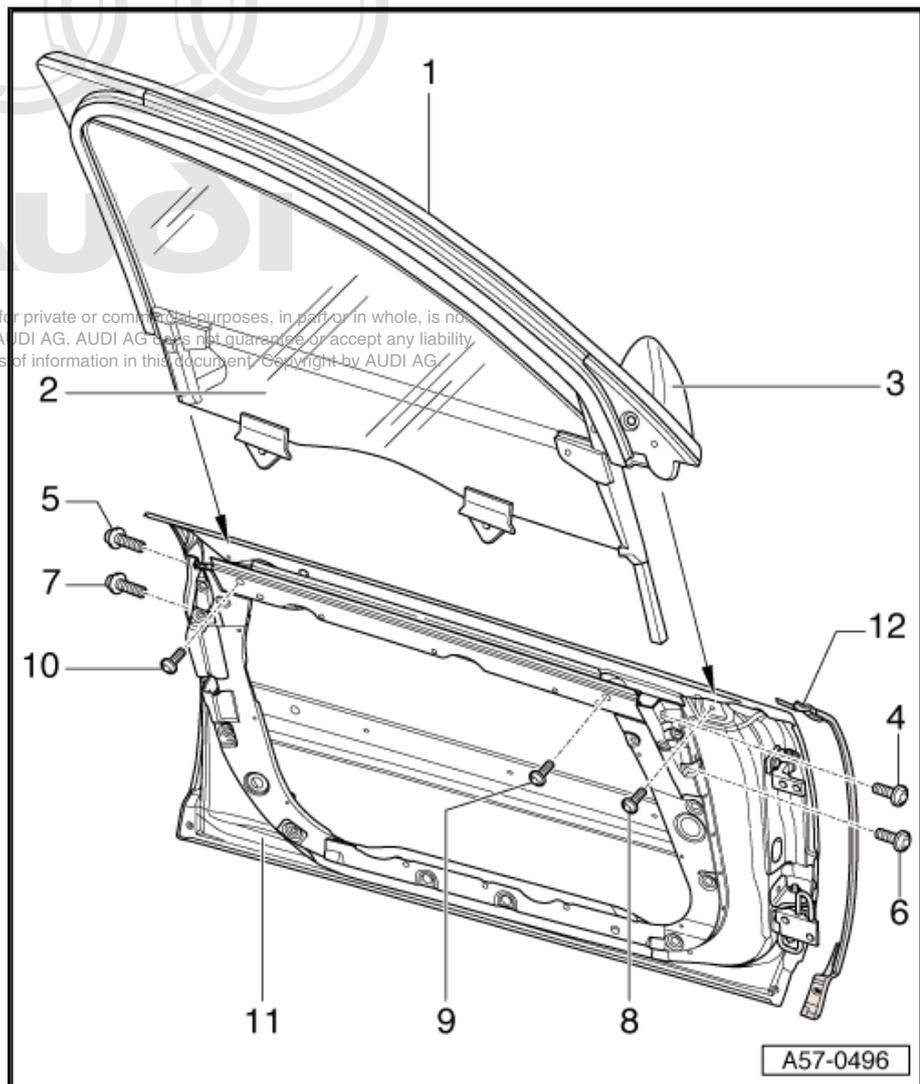
- 32 Nm

8 - Pan-head bolt

- 10 Nm

9 - Pan-head bolt

- 10 Nm



10 - Pan-head bolt

- 10 Nm

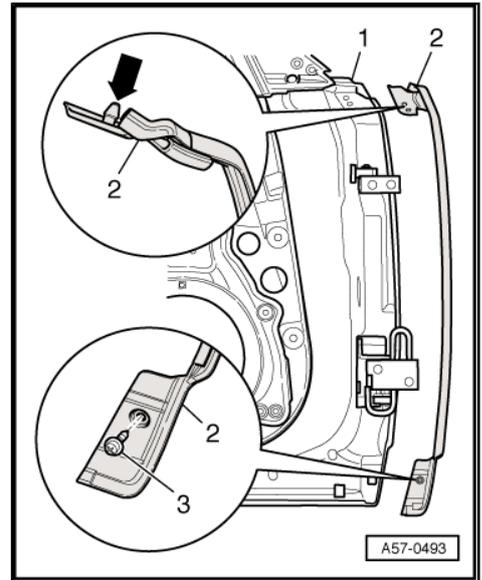
11 - Front door

12 - Door seal (outer)

- Removing and installing => [page 35](#)

Fitting outer door seal

- Removal involves unscrewing bolt -3- at bottom.
- Unclip seal at top from door and detach seal.
- Bonding surface must be free of dust and grease.
- Before fitting, clean bonding surface at door -1- with D 009 401.
- When installing, start by clipping seal -2- into door (top).
- Working from bottom, detach backing as far as embossed area.
- Bond on seal in embossed area.
- Fix moulding in position at bottom and fully bond on seal in lower area.
- Detach rest of backing and bond on seal in upper area.
- Press seal firmly onto door.
- Screw on seal at bottom with bolt -3-.



1.2 Removing and installing window regulator

1 - Mounting panel

- Mounting panel removed
- Position new window regulator on mounting panel as shown.
- Make sure cables are positioned correctly.
- Observe riveting sequence.
- Fit window regulator at top and bottom with one rivet each.
- Then fit second rivet at top.

2 - Aluminium rivet

- Fit using special pop rivet pliers -V.A.G 1753A- .

3 - Driver

- Door window is guided in driver.

4 - Mounting for window regulator motor

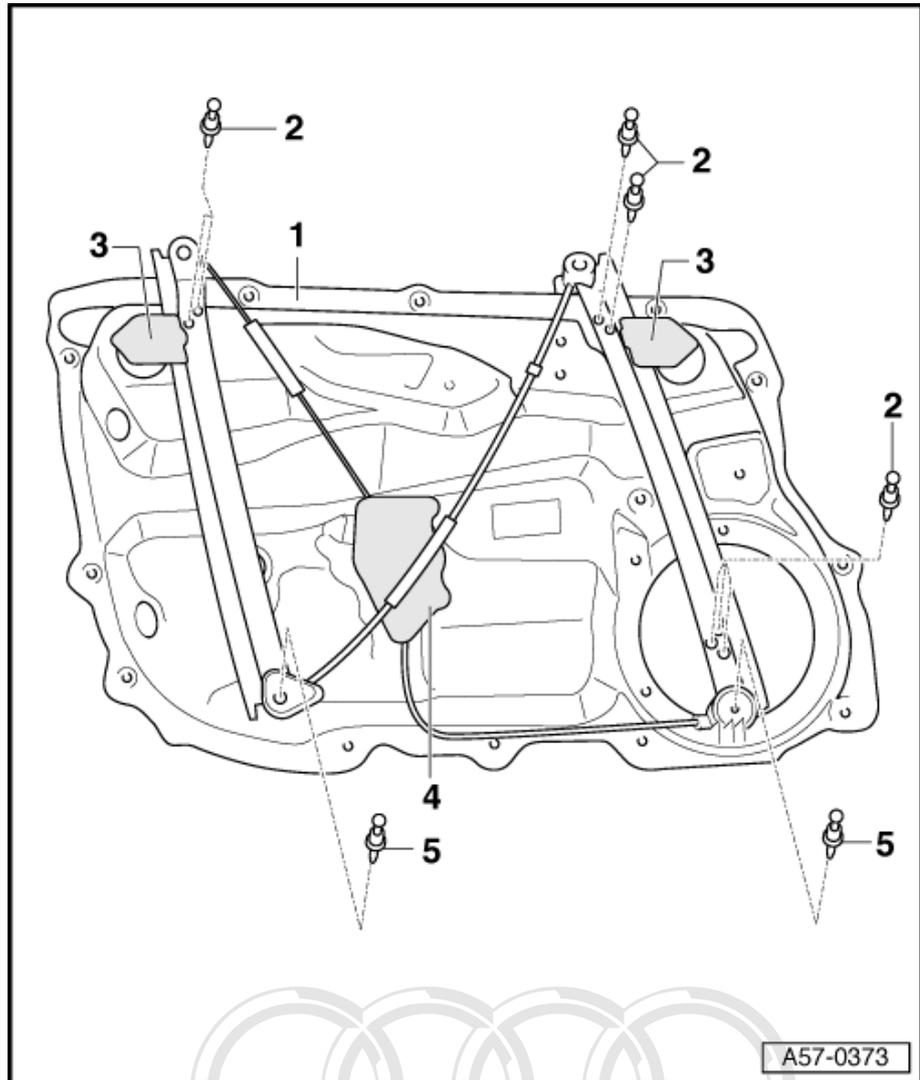
- Threaded pins of mounting must engage audibly in mounting panel => [page 43](#) .

5 - Steel rivet

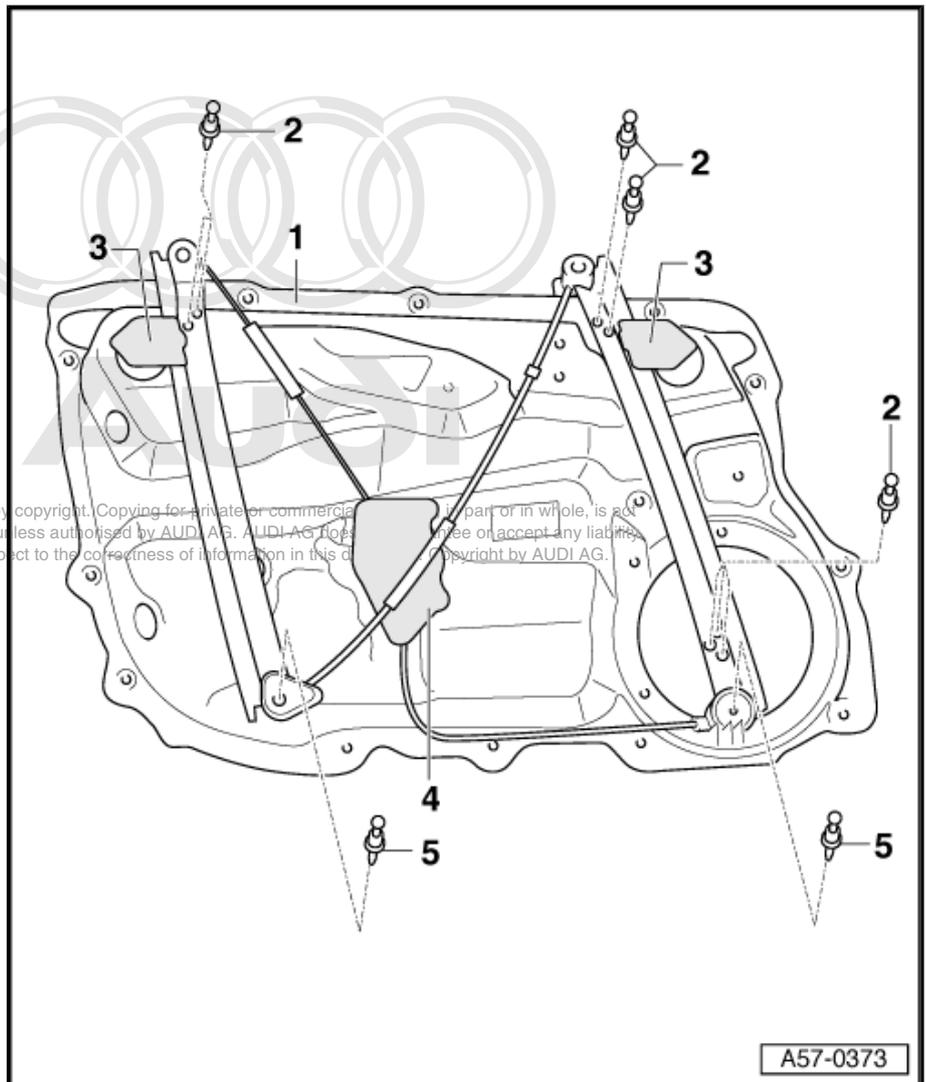
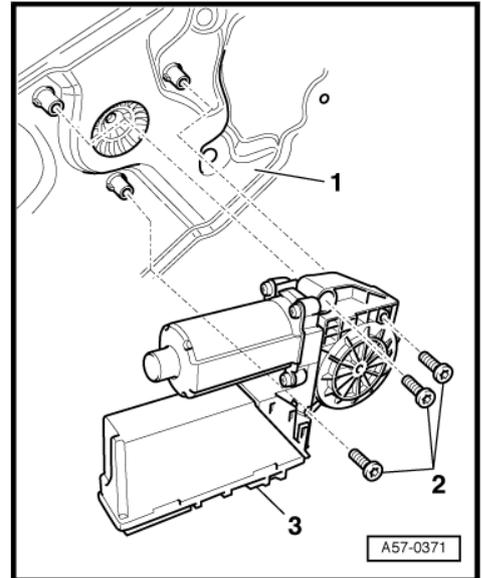
- Fit using special pop rivet pliers -V.A.G 1753A- .

6 - Window regulator

- Removing:
- Top and bottom rivets must have been drilled out and rivet shanks knocked out.
- Squeeze catches of threaded pins at mounting for window regulator from inside and push mounting out.
- Detach window regulator from mounting panel.
- Installing:
- Place window regulator onto mounting panel as shown.
- Make sure cables are positioned correctly.
- Press threaded pins of mounting for window regulator motor completely into mounting panel.
- Threaded pins must engage audibly in mounting panel.
- Rivet window regulator using special pop rivet pliers -V.A.G 1753 A-



Removing and installing window regulator motor



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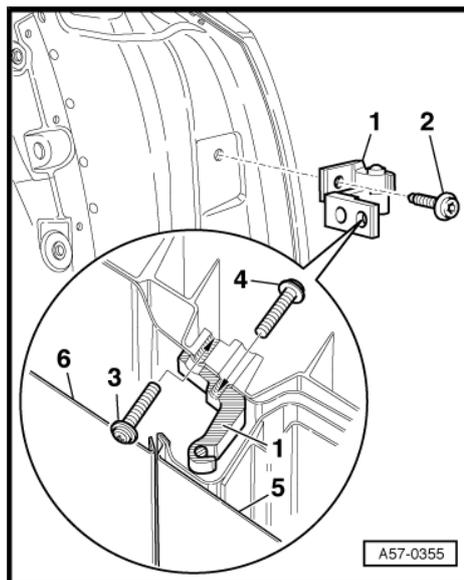
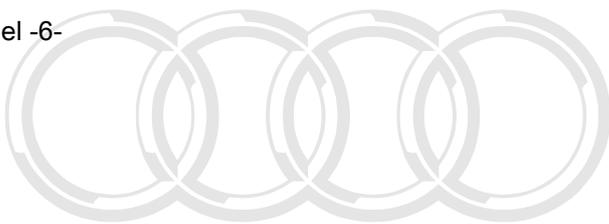
- Door trim removed ⇒ Rep. Gr. 70



- To remove, unscrew bolts -2- and detach window regulator motor -3- from mounting panel -1-.
- When installing, tighten bolts to 3.5 Nm.

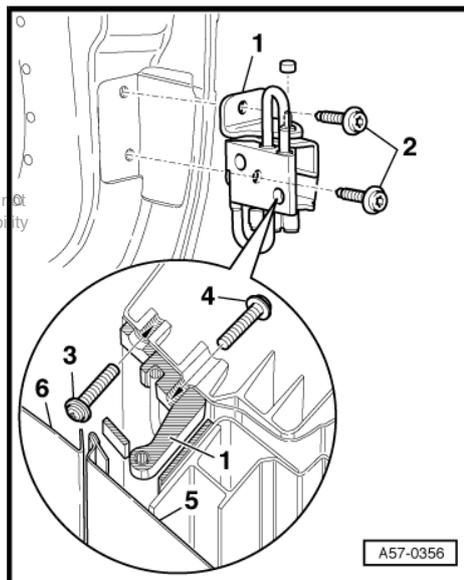
Door hinge (top)

- Door hinge (top) -1-
- Torx bolts -2- -T45- fitted on door side (32 Nm)
- Torx bolt -3- -T45- fitted from outer side of vehicle (32 Nm)
- Torx bolt -T45- -4- (fitted from inner side of vehicle) 32 Nm
- Detach dash panel before removing door hinge (top) => Rep. Gr. 70 .
- Front door -5-
- Wing panel -6-



Door hinge (bottom)

- Door hinge (bottom) -1-
- Torx bolts -2- -T45- fitted on door side (32 Nm)
- Torx bolt -4- -T45- fitted to -A- pillar from inner side of vehicle (32 Nm)
- A-pillar trim (bottom) removed => Rep. Gr. 70 .
- Torx bolt -3- -T45- fitted from outer side of vehicle (32 Nm)
- Front door -5-
- Wing panel -6-



1.3 Removing and installing mounting panel

1 - Mounting panel

- Door trim removed ⇒ Rep. Gr. 70
- Removing:
- Disconnect all electrical wires to control units/ loudspeakers.
- Unfastened or severed cable ties must be attached at same position as on removal.
- Remove window regulator motor ⇒ [page 43](#).
- Remove plastic covers at penetrations -arrows- in mounting panel ⇒ [page 40](#).
- Slide door window down by approx. 10 cm until door window drivers -6- with bolts -3- can be accessed through penetrations -arrows-.

2 - Torx bolt

- 4.5 Nm
- Must be unscrewed before door window or mounting panel can be removed

3 - Window regulator

- Removing ⇒ [page 36](#).

4 - Front door

5 - Mountings

- Must rest on window regulator drivers when fitting door window ⇒ [page 40](#) and ⇒ [page 40](#).

6 - Torx bolts

- 8 Nm

7 - Connecting element

- Installation position ⇒ [page 42](#)

8 - Motor for power latching system

- Removing and installing ⇒ [page 41](#)

9 - Hexagon flange nuts

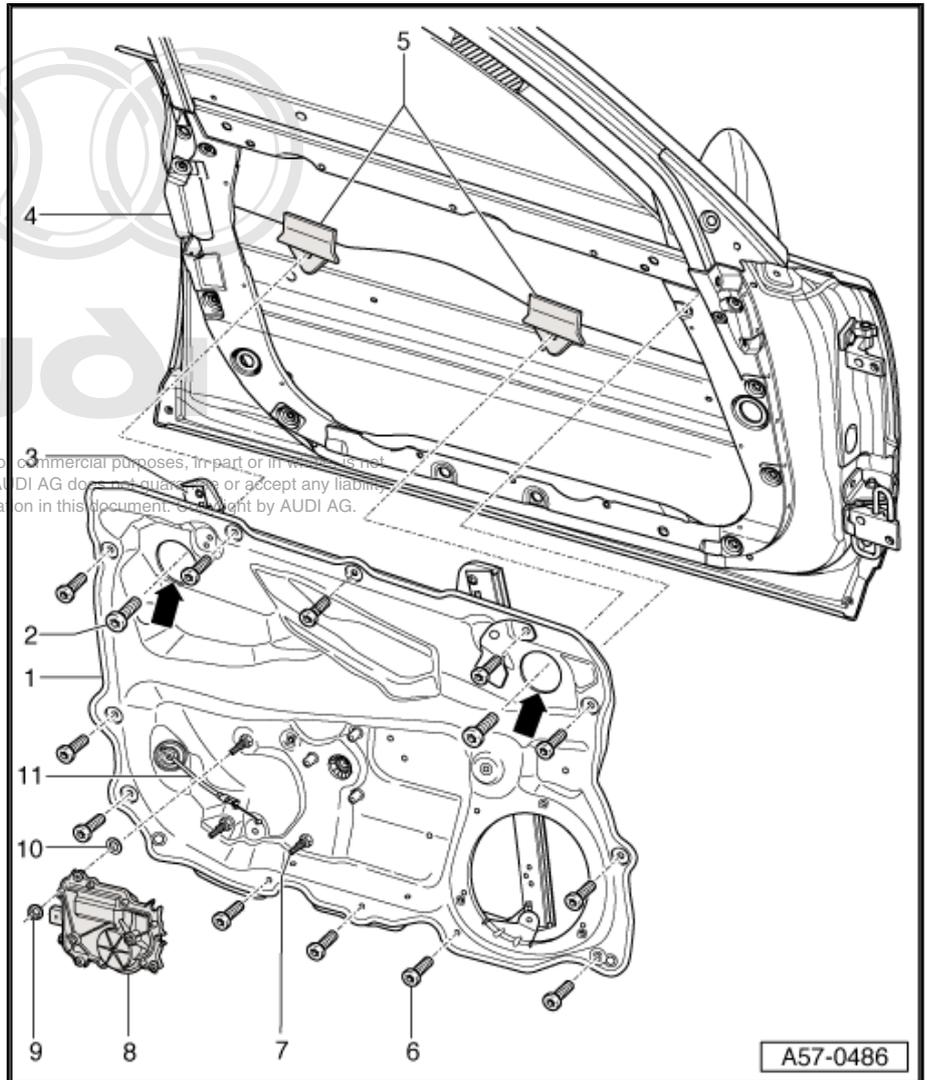
- 5 Nm

10 - Washer

- Must always be fitted.

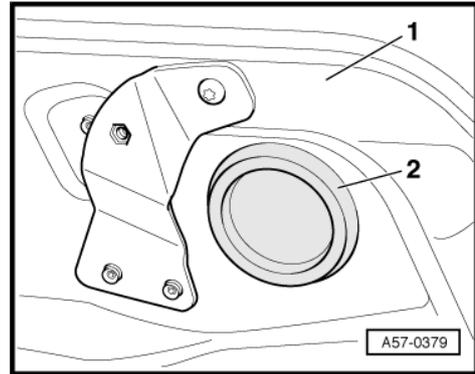
11 - Cable

- Engage in motor for power latching system ⇒ [page 42](#)



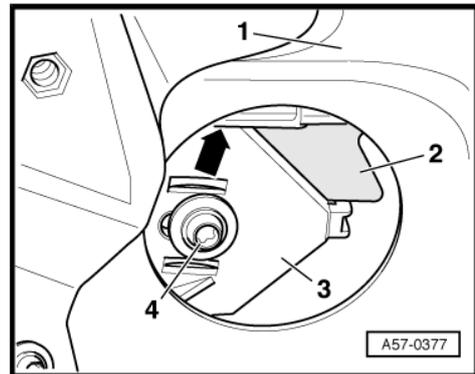
Cover for mounting panel

- Pull out cover -2- before removing mounting panel -1- or door window.



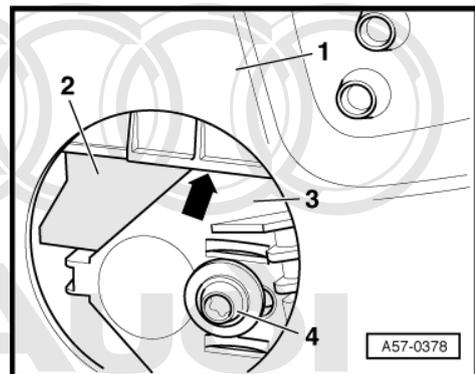
Driver (front)

- Detach mounting -2- for door window from driver -3- when removing door window or mounting panel -1-.
- When installing, tighten Torx bolt -4- to 4 Nm.
- When installing, make sure window mounting -2- is resting on top edge of driver -3-.



Driver (rear)

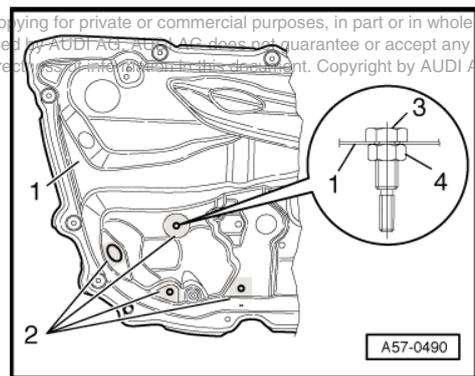
- Unscrew door window mounting -2- from driver -3- when removing door window or mounting panel -1-.
- When installing, tighten Torx bolt -4- to 4 Nm.
- When installing, make sure window mounting -2- is resting on top edge of driver -3-.



Connecting element pre-assembly operations

- If necessary, remove adhesive aluminium strips -2- over holes at mounting panel -1- (new component only).
- Insert connecting elements -3- in mounting panel -1- and tighten hexagon nuts -4- to 20 Nm.

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1.4 Removing and installing motor for power latching system

1 - Motor for power latching system

- Door trim removed.
- Removing:
- To remove, unscrew hexagon flange nuts -1- from connecting elements -4-.
- Detach motor and disengage cable ⇒ [page 42](#)
- Installing:
- Before installing, engage Bowden cable in motor for power latching system.
- Attach washers -3- to connecting elements -4-.
- Position motor for power latching system on connecting elements and tighten hexagon nuts to 5 Nm.

2 - Hexagon flange nut

- 5 Nm

3 - Rubber bush

- Rubber bush and socket are decoupling elements and must always be fitted.
- Inserted in side of motor

4 - Socket

- Inserted in rubber bush

5 - Cable

- Engage in motor for power latching system ⇒ [page 42](#)

6 - Washer

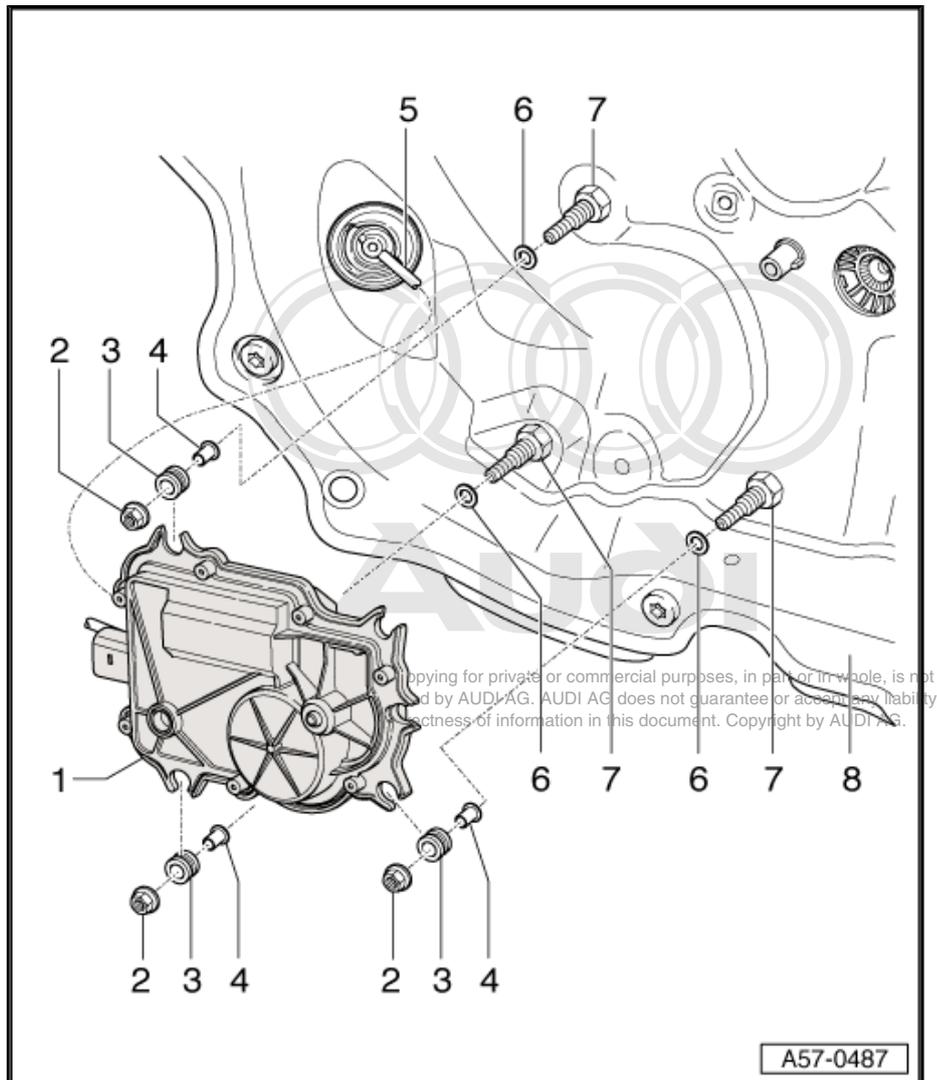
- Must always be fitted.

7 - Connecting element

- Pre-assembly ⇒ [page 42](#)

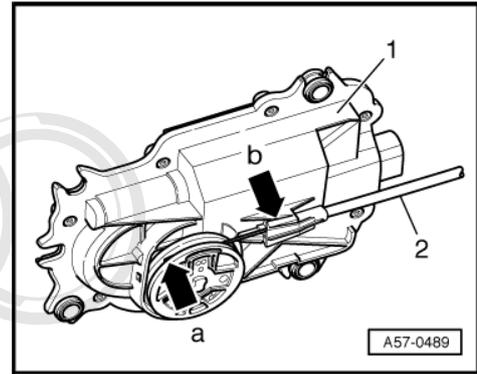
8 - Mounting panel

- Removing and installing ⇒ [page 39](#)



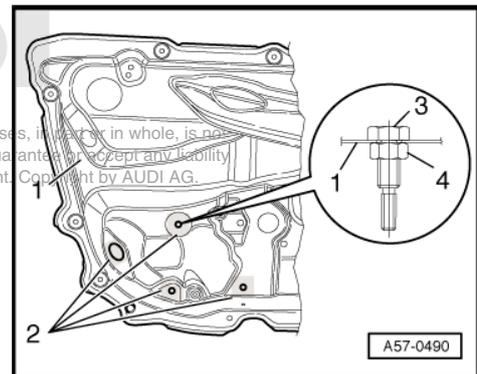
Disengaging and engaging cable

- To remove, start by unclipping cable from motor at location marked by arrow -b-.
- Disengage cable from reel and detach motor.
- Install in reverse order.



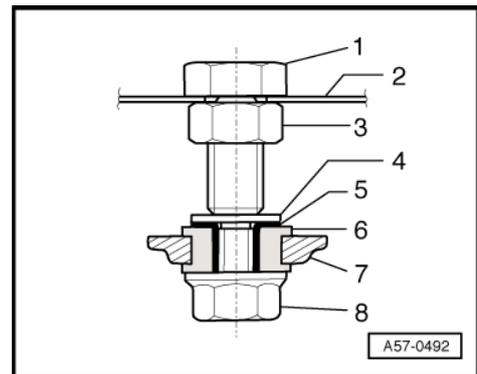
Pre-assembly operations for connecting elements

- On new component, remove adhesive aluminium strips -2- from mounting panel -1-.
- Pre-assembly involves inserting connecting elements -3- in mounting panel -1- and tightening hexagon nut -4- to 20 Nm.



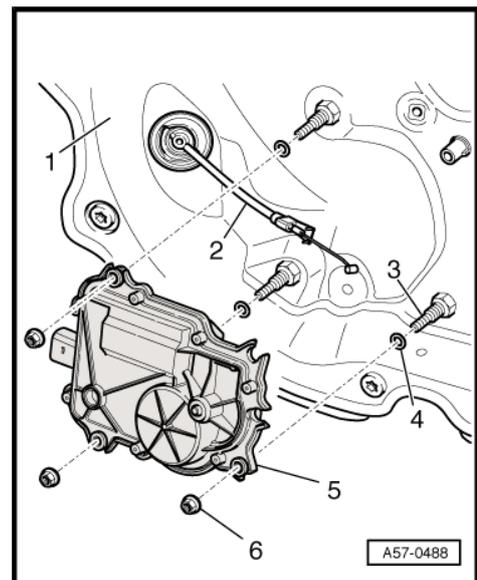
Installation position of connecting element

- Connecting element -1- pre-assembled by inserting it in mounting panel -2- and securing with hexagon nut -3-.
- Washer -4- must always be fitted.
- Socket -5- with rubber bush -6- is inserted in side of motor -7-.
- Motor positioned on connecting element and secured with nut -8-.
- After engaging Bowden cable, tighten nut to 5 Nm.



Installing motor for power latching system

- Mounting panel installed.
- Position washers -4- on connecting elements -3-.
- Engage cable -2- in reel at motor -5-.
- Attach motor -5- to connecting elements -3- and tighten hexagon nuts to 5 Nm.



1.5 Removing and installing window regulator motor

Removing

- Door trim removed ⇒ Rep. Gr. 70 .

Note

- ◆ *Window regulator motor can be removed or installed with motor or side window in any position.*
- ◆ *Unplug connectors before removing motor.*

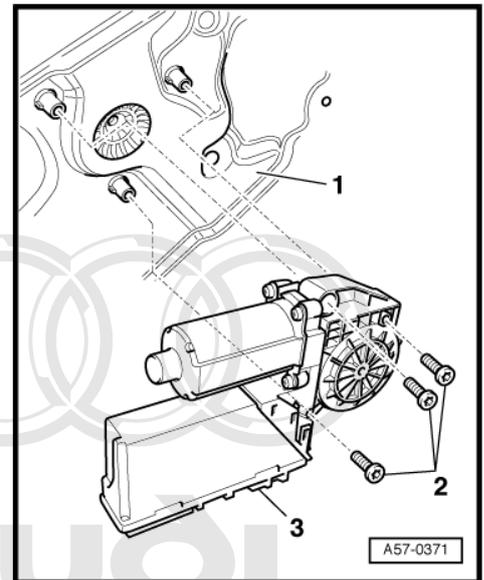
- Unscrew Torx bolts -2- -T30- and detach motor.

Installing

- When installing, make sure threaded pins -arrows- are engaged in inner door panel.
- Fit window regulator motor -3- and secure with bolts -2-.
- Tightening torque: 3.5 Nm.

Note

- ◆ *After installing the electric motor and attached wiring, first turn the ignition on and then off again.*
- ◆ *Then raise door window as far as it will go and keep window regulator switch pulled for approx. 2 seconds.*
- ◆ *The window regulator is now in the basic setting and the opening/closing function is activated.*



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1.6 Front door handle - exploded view

1 - Door handle mounting

- ❑ Slide of mounting locks retainer tabs -arrows- of door handle
⇒ [page 44](#)

2 - Front door

3 - Clip

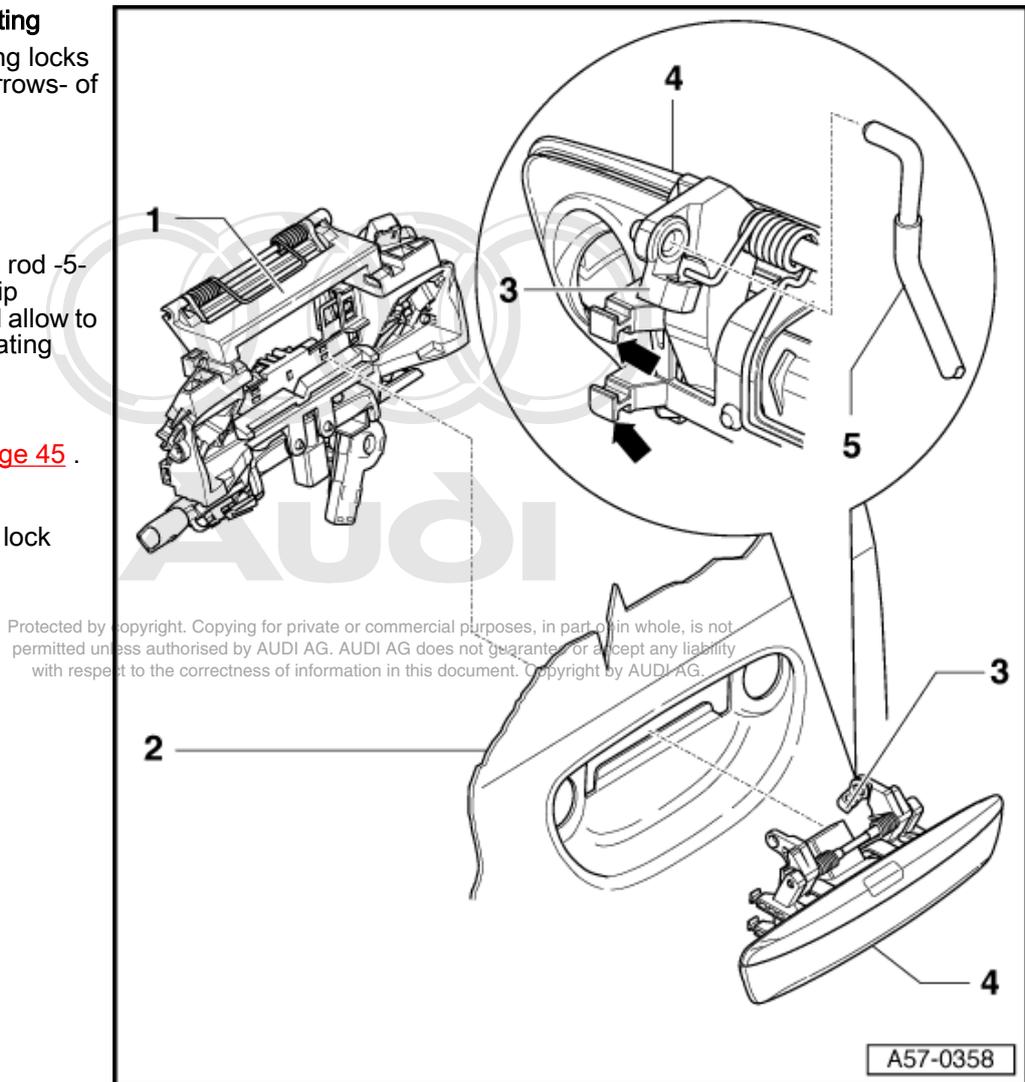
- ❑ Insert operating rod -5- in clip, swivel clip through 90° and allow to engage at operating rod.

4 - Door handle

- ❑ Removing ⇒ [page 45](#) .

5 - Operating rod

- ❑ Engage in door lock
⇒ [page 45](#)

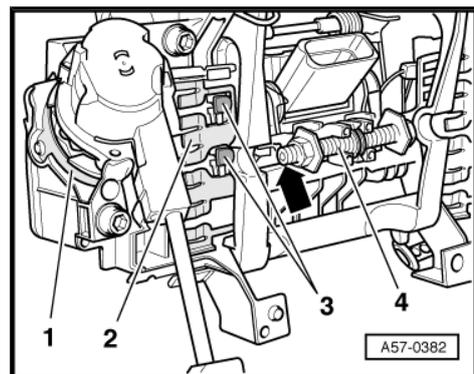


Locking door handle in mounting



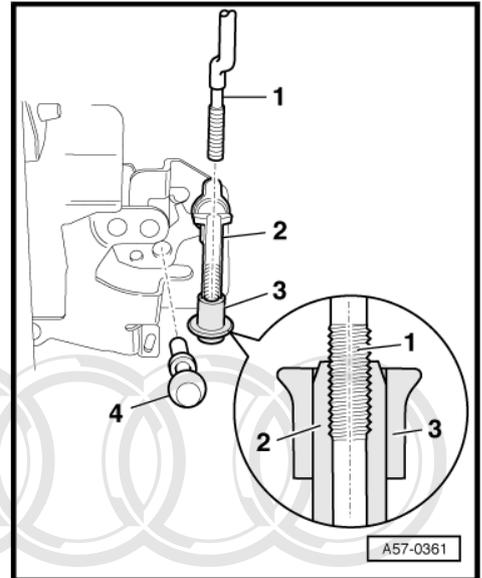
Note

- ◆ *Removal of door handle pushes slide -2- apart, thus releasing retainer tabs -3- and enabling door handle to be detached from outside.*
- ◆ *Illustration shows door handle in released position.*
- To remove door handle, insert Torx screwdriver -T15- through front end of door into mounting -arrow- of spindle -4-.
- Turn spindle anti-clockwise as far as it will go until retainer tabs release door handle.
- Detach retaining clip -1- when removing lock cylinder
⇒ [page 45](#) .
- Pull door handle out of mounting.



Engaging operating rod in door lock

- When installing a new door lock, clip operating rod -1- into locking sleeve -2-.
- To lock operating rod, push slide -3- of locking sleeve -2- upwards.
- Do not pull locking pin -4- out of door lock until operating rod has been fitted.



1.7 Removing and installing front door handle and lock cylinder

1 - Door handle mounting

- Door trim removed ⇒ Rep. Gr. 70
- Mounting panel removed ⇒ [page 39](#)
- Unclip mounting bracket of door handle mounting from door lock ⇒ [page 49](#).

2 - Spindle

- Accessible from end face of door under plastic cover
- Turn anti-clockwise with Torx screwdriver -T15- to release slide of door handle mounting ⇒ [page 44](#)
- Door handle can then be detached outwards from door.
- When installing door handle, screw in spindle as far as it will go.

3 - Housing for lock cylinder

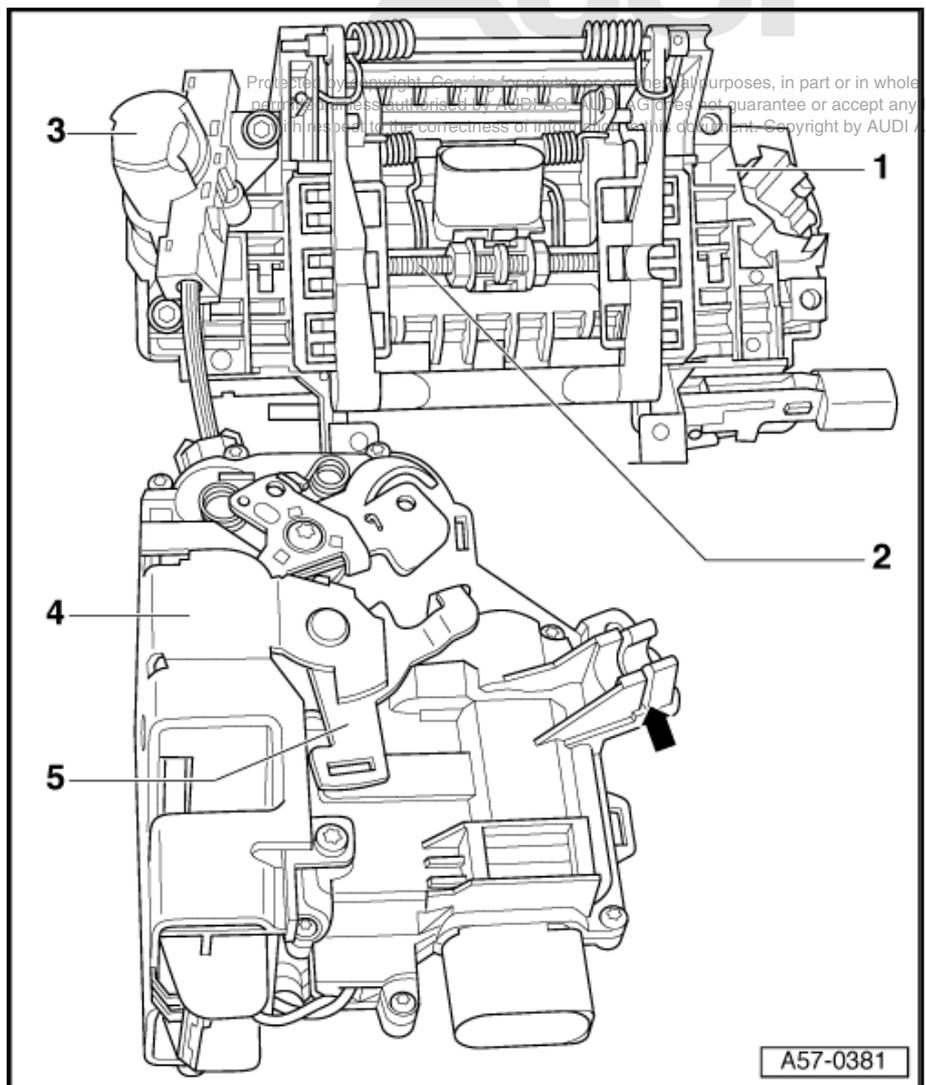
- Remove lock cylinder ⇒ [page 46](#).

4 - Door lock

- Removing ⇒ [page 47](#).

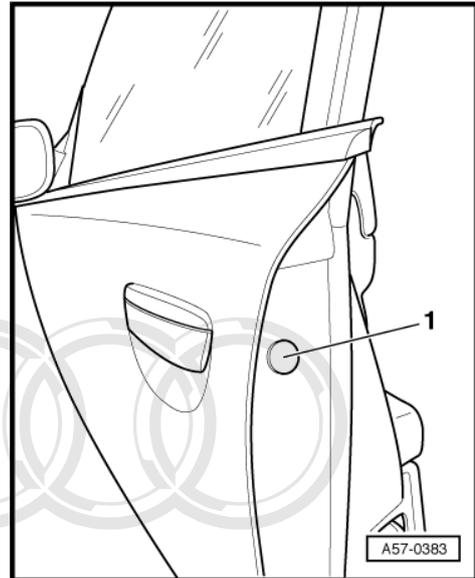
5 - Release lever

- Bowden cable for interior door handle is engaged here and clipped in at door lock -arrow-.



Removing lock cylinder

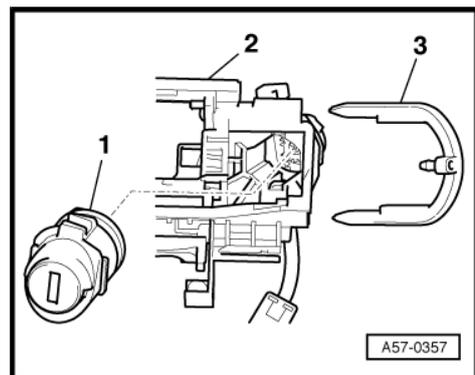
- Unclip cover -1- from door at end face.
- Unclip operating rod at top of door handle.



- Use Torx screwdriver (T 15) to turn spindle in door mounting anti-clockwise as far as it will go and detach door handle from door.
- Front door trim removed ⇒ Rep. Gr. 70.
- Mounting panel removed, door window pushed upwards and secured with adhesive tape to prevent it from dropping.
- Unclip mounting for door handle from door lock.
- With door handle removed, take door handle mounting downwards out of door.



- Detach clip -3- in direction of arrow from lock cylinder housing.
- Pull lock cylinder -1- out of housing -2-.



1.8 Removing and installing door lock

1 - Front door

2 - Door lock (front)

- Mounting panel removed
- Door window fully raised
- Lock cover removed
⇒ [page 49](#)
- Unplug electrical connectors to door lock.
- Disengage Bowden cable -5- from release lever -6-.
- Unscrew multi-point head bolts -2-.
- Take door lock downwards out of door.

3 - Grommet

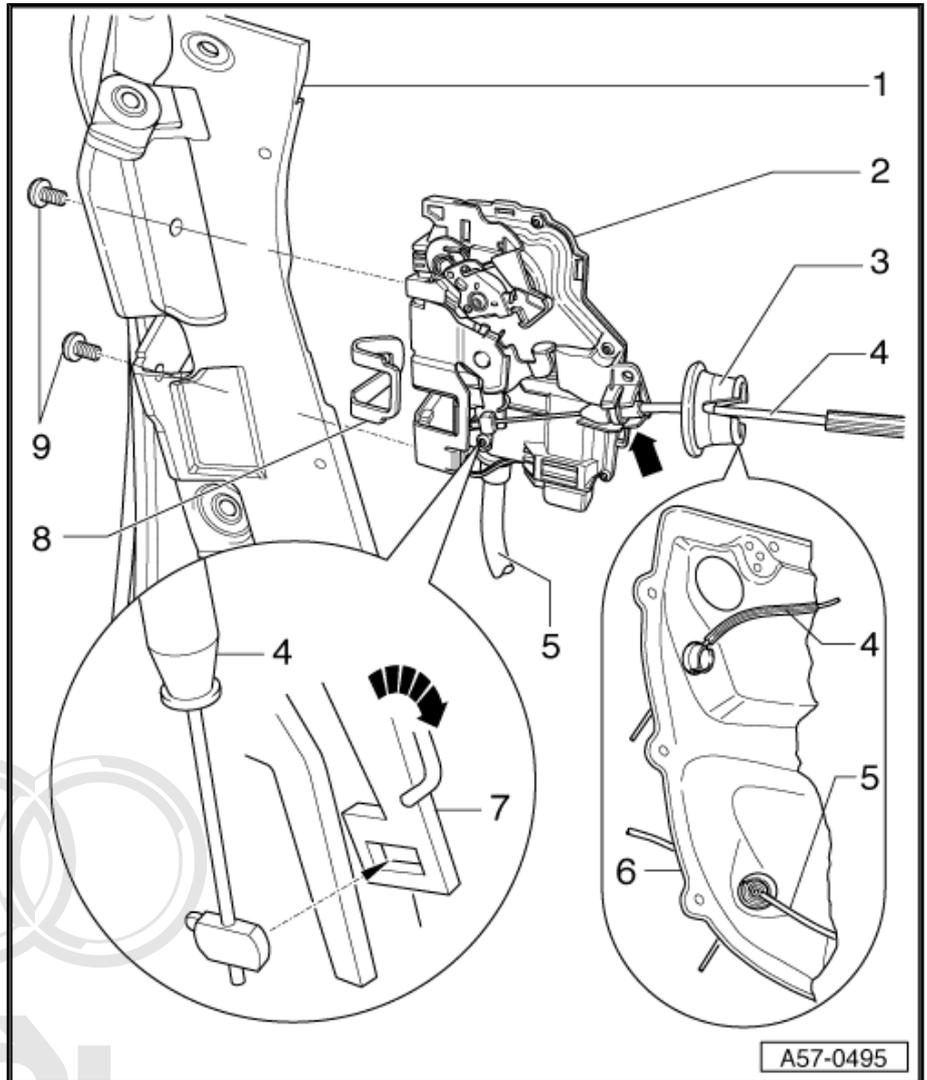
- Press into mounting panel.

4 - Bowden cable

- For interior door handle
- Clipped into door lock - arrow - to secure
- Engage in interior door handle ⇒ [page 48](#)

5 - Release lever

- Insert Bowden cable in operating lever in direction of arrow.
- Swivel Bowden cable through 90° in direction of arrow and clip into door lock.



6 - Mounting panel

- Guide cables for interior door handle/power latching system through mounting panel (as shown) and **press in grommets**.
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7 - Bowden cable

- Vehicles with power latching system only
- Pull through mounting panel and engage in motor for power latching system
- Engage Bowden cable in motor for power latching system ⇒ [page 42](#)

8 - Seal

- Insert seal in side of door lock

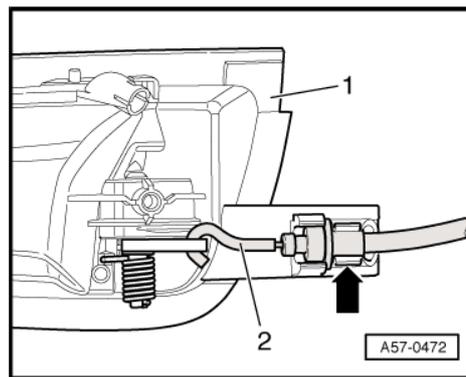
9 - Multi-point socket head bolt

- 20 Nm



Engaging Bowden cable in interior door handle

- When fitting door trim, engage cable -2- as shown in interior door handle -1- from top to bottom.
- Clip cable -arrow- into interior door handle.



1.9 Removing and installing lock cover

1 - Front door

2 - Cover for door lock

- Mounting panel removed
- Remove spreader rivet and detach cover from door towards rear.

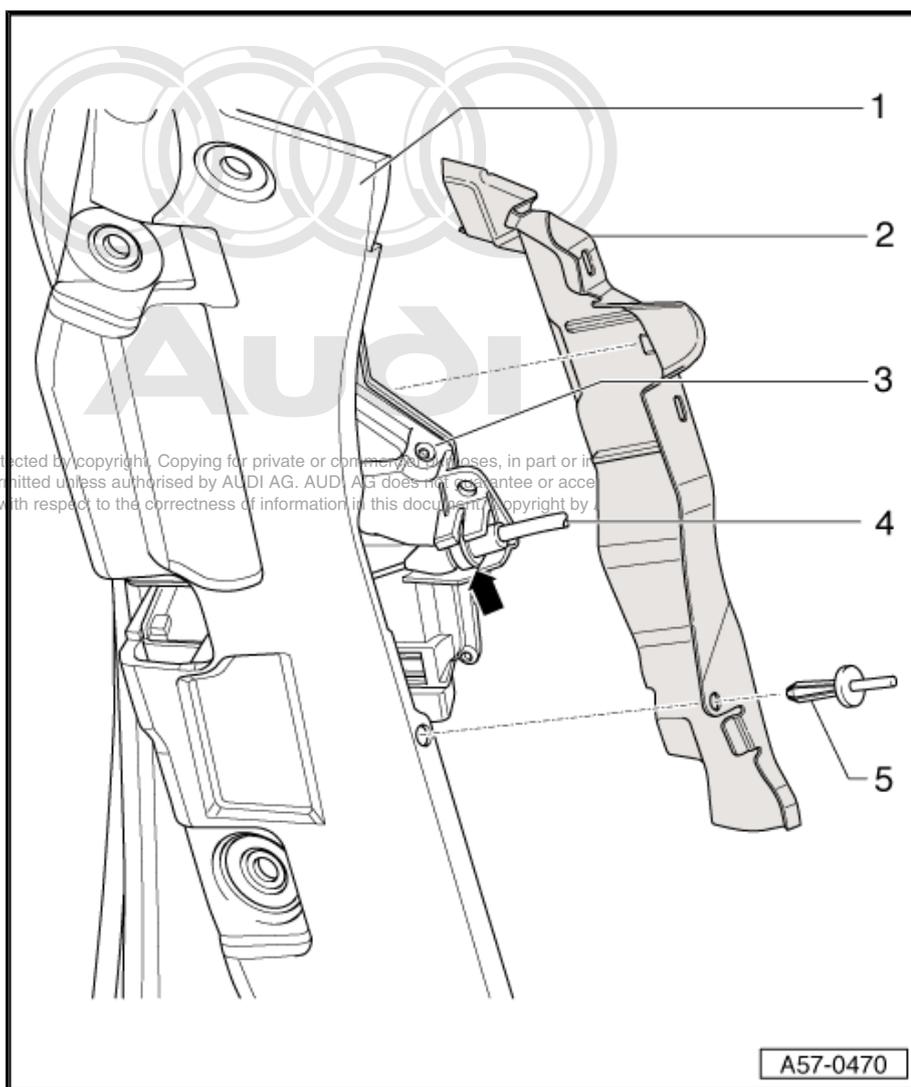
3 - Door lock

4 - Bowden cable

- Bowden cable must be clipped into door lock as shown -arrow-.

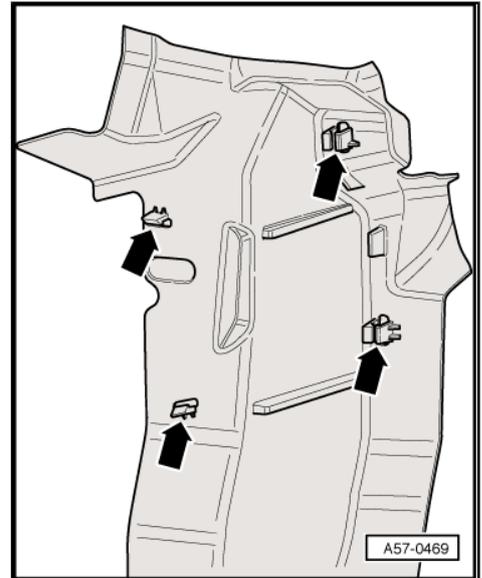
5 - Spreader rivet

- Secure spreader rivet with locking pin.



Lock cover

- To remove, release fasteners -arrows- from door and detach lock cover to rear.
- Fasteners -arrows- must engage fully during installation.



1.10 Clipping mounting bracket into door lock

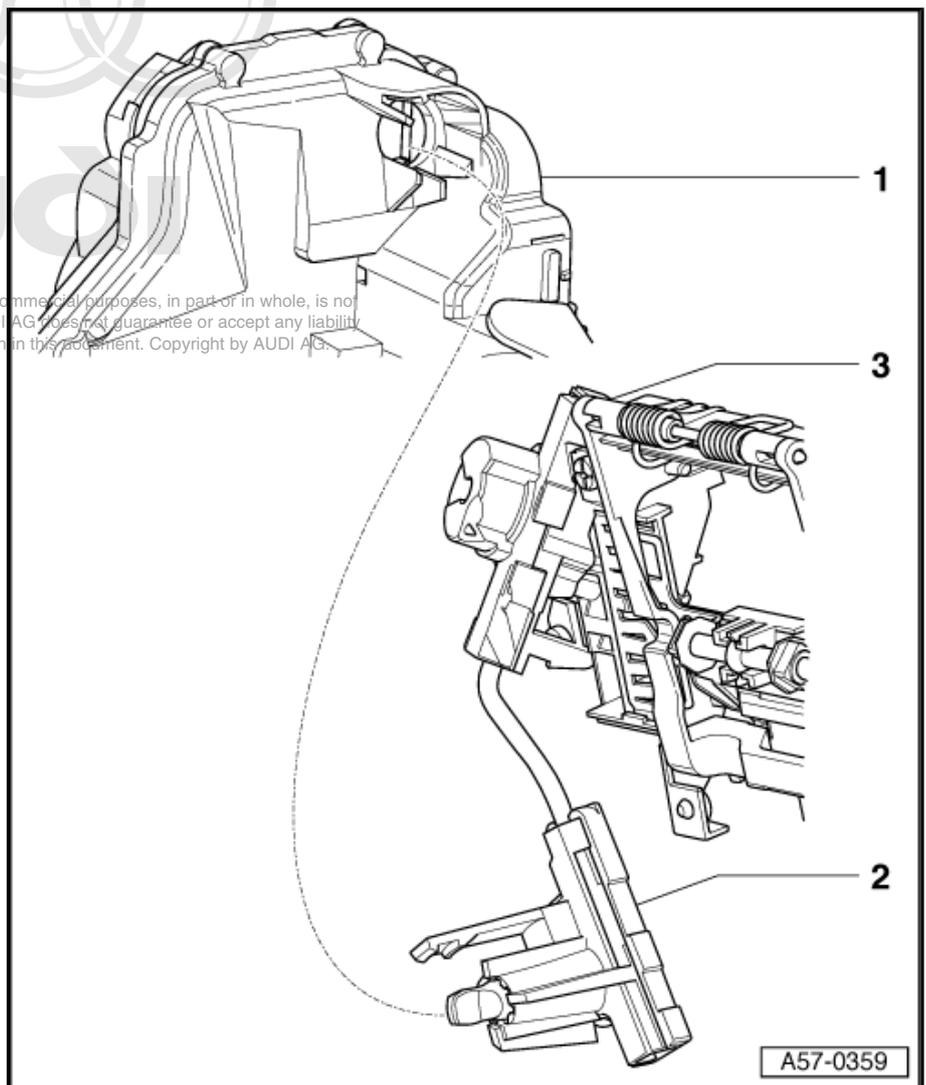
1 - Door lock (front)

2 - Mounting bracket

- Insert mounting bracket with actuating arm -arrow- in door lock -1- and clip both components together.

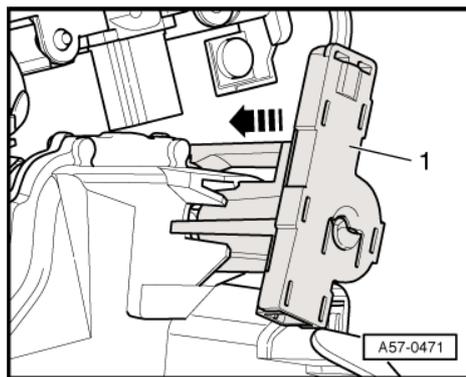
3 - Door handle mounting

- Removing
 → [Item 1 \(page 45\)](#)



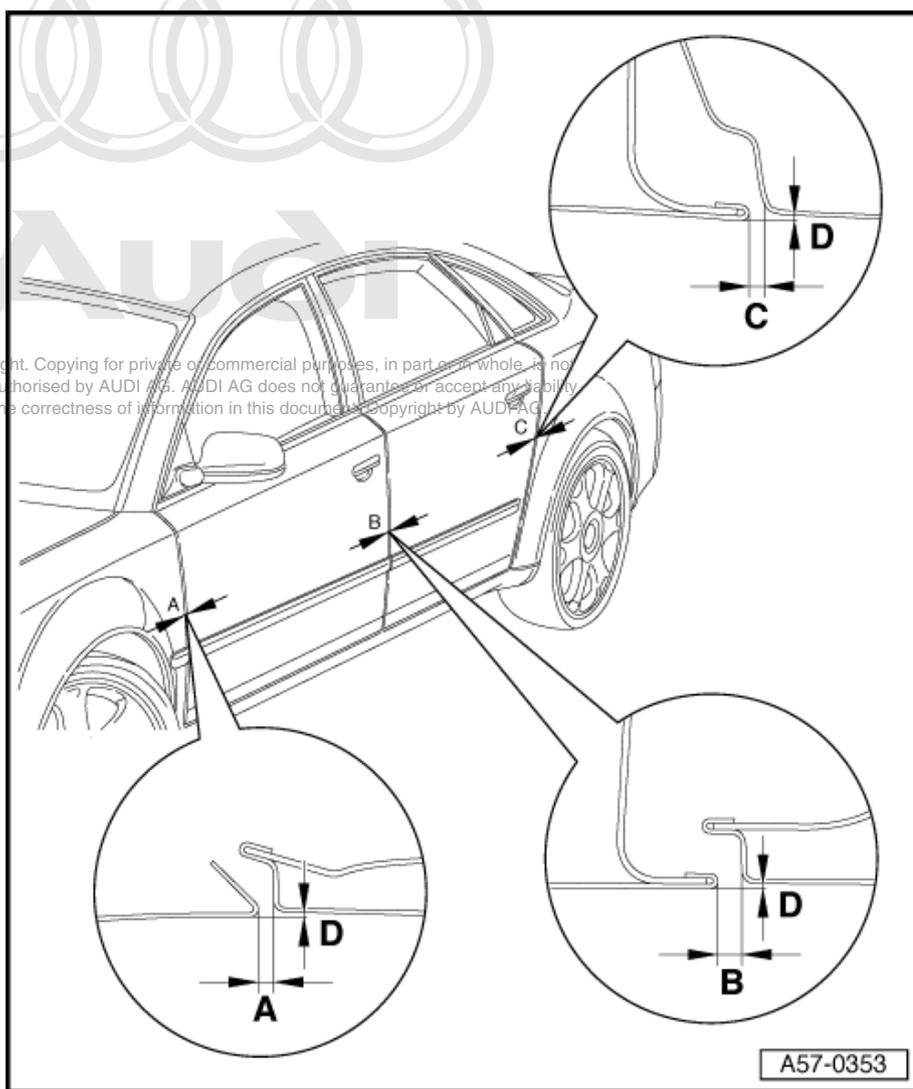
Mounting bracket

- When installing, mounting bracket -1- must be clipped in in direction of arrow.
- Mounting bracket must engage properly in door lock.



1.11 Adjusting front door

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Panel gaps

Note

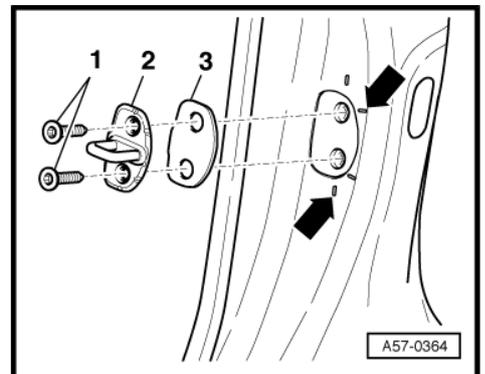
- ◆ Rear door must already have been adjusted.
- ◆ Use setting gauge -3371- to check panel gaps.
- ◆ Dimension -A- = $3.5\text{ mm} \pm 0.5\text{ mm}$
- ◆ Dimension -B- = $4.5\text{ mm} \pm 0.5\text{ mm}$
- ◆ Dimension -C- = $3.5\text{ mm} \pm 0.5\text{ mm}$
- ◆ Dimension -D- = $0\text{ mm} + 1\text{ mm}$
- ◆ Parallel deviation of gap must not exceed 0.5 mm .

- Slacken off bolts -1-.
- Use markings -arrows a- and -arrows c- for lateral adjustment.
- Move striker plate -2- until door is flush with body contour.
- Seal -3- must always be fitted.

Note

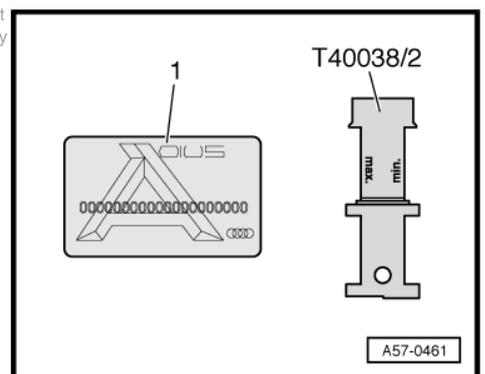
Use this adjustment only to adjust door inwards or outwards, not vertically.

- Use markings -arrows b- and -arrows d- for height adjustment.
- If adjustment is correct, striker plate should engage centrally in door lock.
- Tighten bolts to 25 Nm.

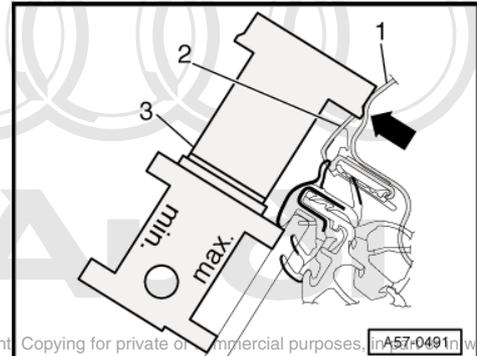


1.12 Checking door alignment with template -T40038/2-

- Use door adjustment template -T40-038/2 as described below for checking (e.g. in the case of wind noise) and for door adjustment.
- Use a regular bank card -1- or similar to check contact pressure of sealing lip on roof trim panel.



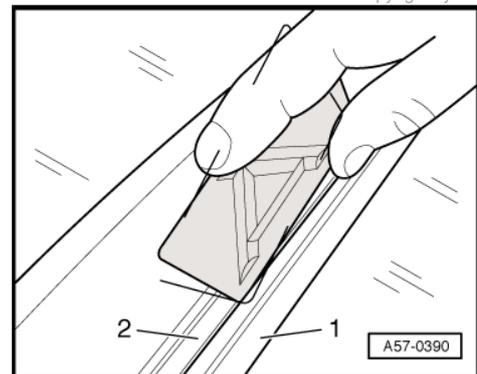
- For correct adjustment, adjustment template -3- must rest on top of roof trim strip -2- and make contact with roof -1- -arrow-.



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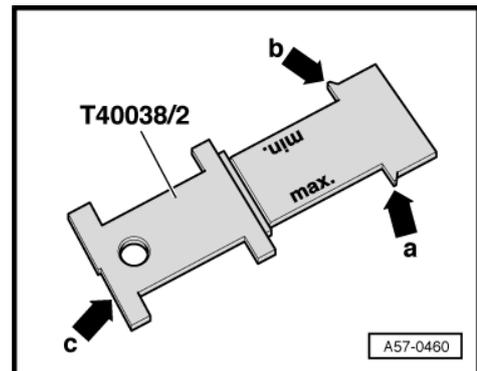
Checking contact of sealing lip on roof trim strip

- Move a regular bank card along the area of contact between the sealing lip and the roof trim strip, applying light pressure.
- Card must not penetrate between sealing lip -1- and roof trim strip -2-.

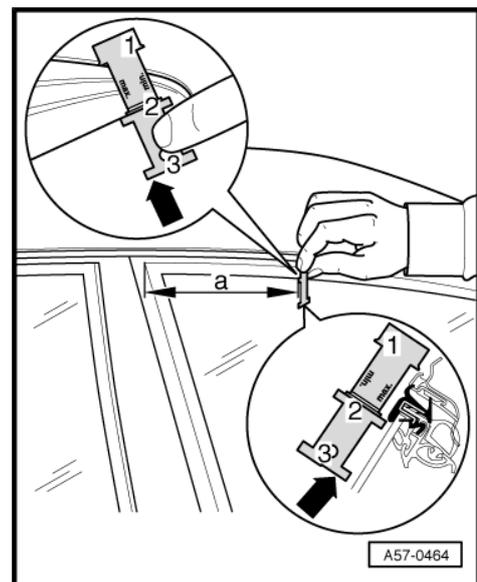


Lateral adjustment of door (setting angle)

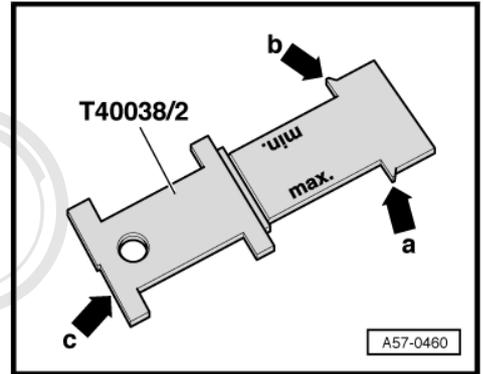
- Template has arms of different length at arrows -a- and -b-.
- These can be used to check lateral adjustment of doors.
- Use side with "max" mark to check whether window frame is positioned too far outwards.
- Use side with "min" mark to check whether window frame is positioned too far inwards.



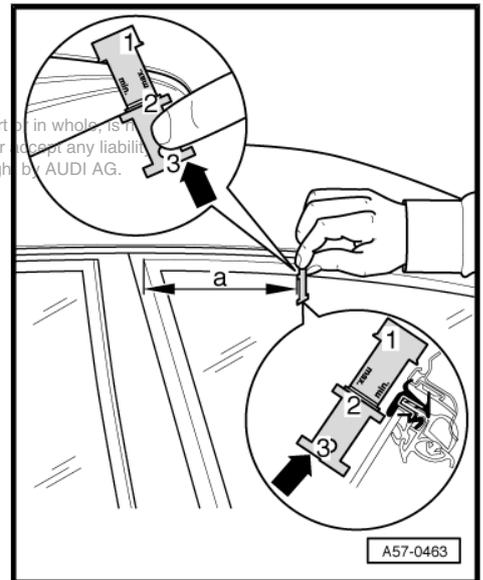
- Position template at distance -a- = 200 mm and with cut-out -arrow- pointing towards the door window.
- Make sure points -1- and -3- make contact.
- A gap is permissible at point -2- of the template.
- This position (max) represents outermost door setting within tolerance range.
- If there is no gap at point -2- or if there is a gap at point -1-, window frame is positioned too far outwards and must be adjusted.



- Use side with arrow -b- (min mark) to check whether window frame is positioned too far inwards towards body.
- Position template at distance -a- = 200 mm and with cut-out -arrow- pointing away from the door window, as shown in detail view.

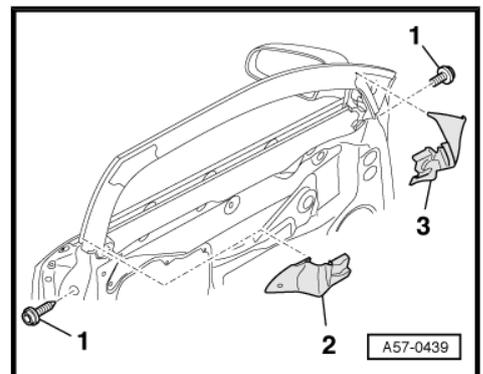


- Make sure points -2- and -3- make contact with door window.
- A gap is permissible at point -1- of the template.
- This position (min) represents innermost door setting within tolerance range.
- If there is no gap at point -1- or if template contact cannot be established at point -2-, window frame is positioned too far inwards and must be adjusted. => page 52



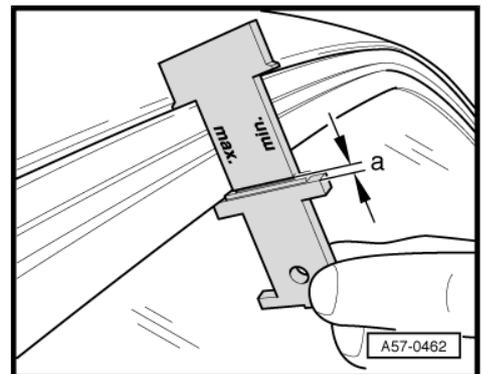
Height adjustment of window frame

- If the height of the window frame has to be adjusted, replace fitted flange bolts -1- with standard bolts.
- This will enable you to adjust the height of the window frame.
- Seals -2- and -3- are inserted into window frames.
- Place template on roof as shown, or on upper edge of rain channel.



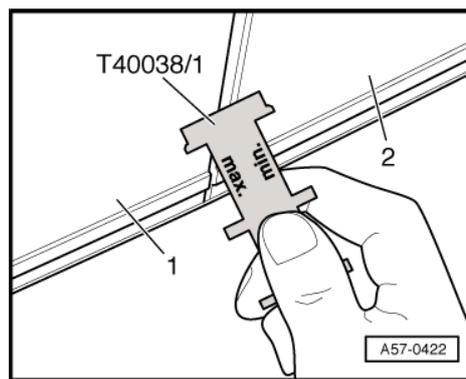
- When correctly adjusted, lower edge of window frame should be inside grooved area -a- on template.
- Check/adjust angle of window frame.

Adjusting front door

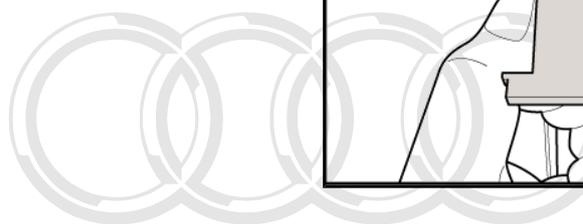
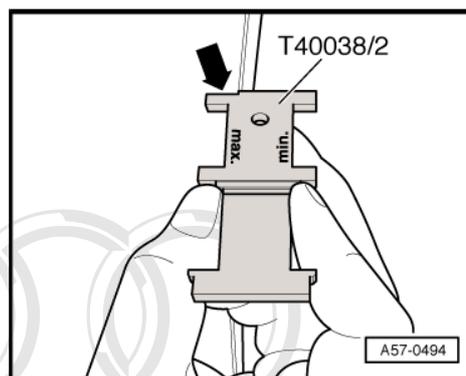




- Underside of template -T40038/3- (illustration shows different template) can be used to check position of door.
- The door must not be recessed relative to the side panel -2-.
- The front door -1- must not be recessed relative to the side panel -2- (wind noise).



- The front door may protrude (max. 0.8 mm) relative to the side panel in the area of the cut-out in the template -arrow-.



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2 Central locking system

2.1 Components - overview

1 - Front passenger door control unit -J387-

- Integrated into window regulator motor

2 - Rear right door control unit -J389-

- Integrated into window regulator motor

3 - Tank filler flap locking motor -V155-

4 - Rear lid control unit -J605-

5 - Convenience system central control unit -J393-

- Fitting location: in side panel (rear right)
 => [page 55](#)
- Removing and installing
 => [page 56](#)

6 - Rear lid release motor -V139-

7 - Rear left door control unit -J388-

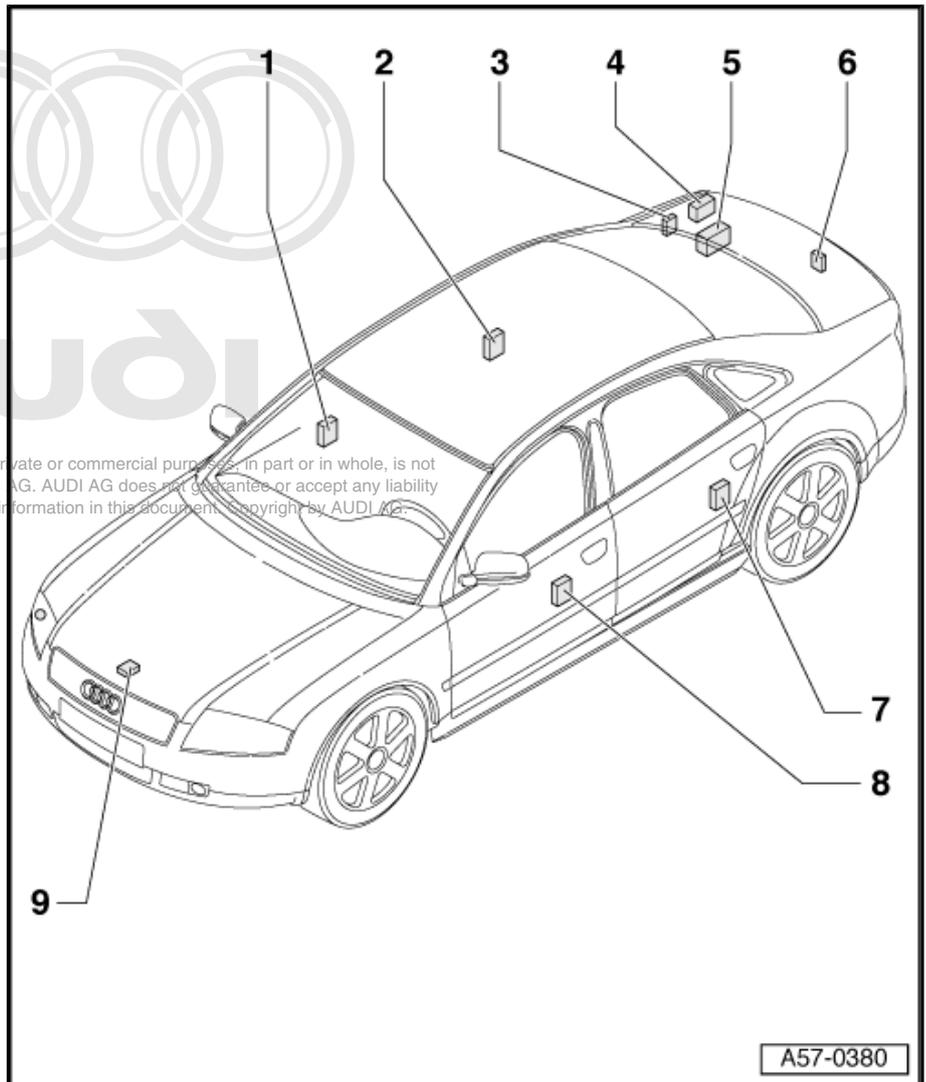
- Integrated into window regulator motor

8 - Driver door control unit -J386-

- Integrated into window regulator motor

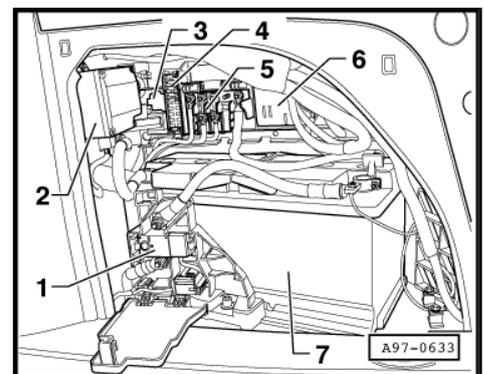
9 - Bonnet contact switch -F266-

- Fitting location in lock carrier



Convenience system central control unit

- ◆ -1- Battery cut-off relay -J655-
- ◆ -2- Energy management control unit -J644-
- ◆ -3- Relay holder in luggage compartment
- ◆ -4/5- Fuse holder in luggage compartment
- ◆ -6- Convenience system central control unit -J393-
- ◆ -7- Vehicle battery



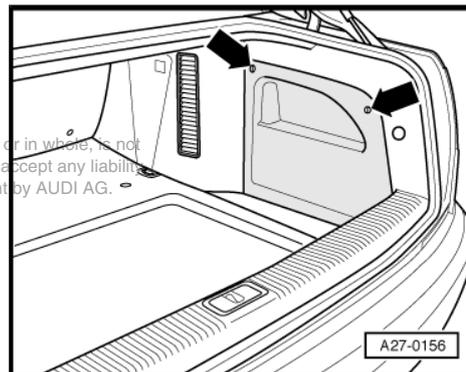
2.2 Removing and installing convenience system central control unit -J393-

- ◆ Fitting location: In luggage compartment (right-side) above battery

Removing

- If control unit is renewed, select "Replacement" function for appropriate control unit in "Guided Fault Finding" ⇒ Vehicle diagnosis, testing and information system VAS 5051.
- Switch off ignition and remove ignition key.
- Remove cover of luggage compartment side trim (right-side) -arrows-.

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- Release convenience system central control unit -J393- -arrows- and detach from relay and fuse holder.



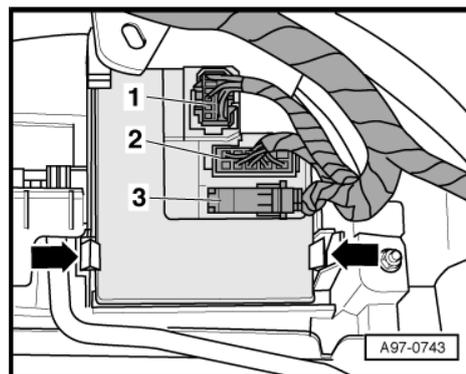
Note

If you do not unplug the electrical connectors for the convenience system central control unit -J393- in the specified order the power latching unit on vehicles with a power latching system will be damaged irreparably.

- Unplug electrical connectors in the following order: -2, 1, 3-.

Installing

Install in reverse order of removal.



2.3 Servicing central locking system

- The A8 central locking system is now electrical, as opposed to pneumatic.
- The positioners in the doors are integrated in the lock and have 2 motors.
- The positioners cannot be renewed separately.
- First motor locks door, whereas second motor locks interior door handle (SAFE function).
- The locked doors can no longer be opened from inside the car.
- On vehicles equipped with "Advanced key", the vehicle must be locked separately using the remote control after leaving the vehicle in order to activate the SAFE function.
- Alternatively, the SAFE function can be activated via buttons in the door handles.
- The positioners for the tank flap and rear lid have one electric motor each and can be renewed separately.

- After an accident involving activation of the airbags, the central locking control unit will unlock any doors which are locked.
- Central locking system control unit is located in rear right side panel.



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58 – Rear doors, door components

1 Rear door

1.1 Removing and installing window frame and window regulator

1 - Window frame

- Before removing, detach rear door trim => Rep. Gr. 70 .
- Can only be removed after detaching door window from window regulator and mounting panel.
- When installing, observe tightening sequence for bolts.
- When installing, first fit all bolts loosely.
- Height of window frame is already set by fitted flange bolts -4- and -5-.
- After setting angle, tighten bolts to 32 Nm in the following sequence: -4-, -5-, -6-, -7-, -8-, -9- and -10-.

2 - Door window

- Fitted in window frame during installation
- To remove, mounting panel and window frame must be removed

3 - Driver for door window

4 - Fitted flange bolt

- Multi-point socket head
- 32 Nm

5 - Fitted flange bolt

- Multi-point socket head
- 32 Nm

6 - Torx bolt

- 32 Nm

7 - Torx bolt

- 32 Nm

8 - Pan-head bolt

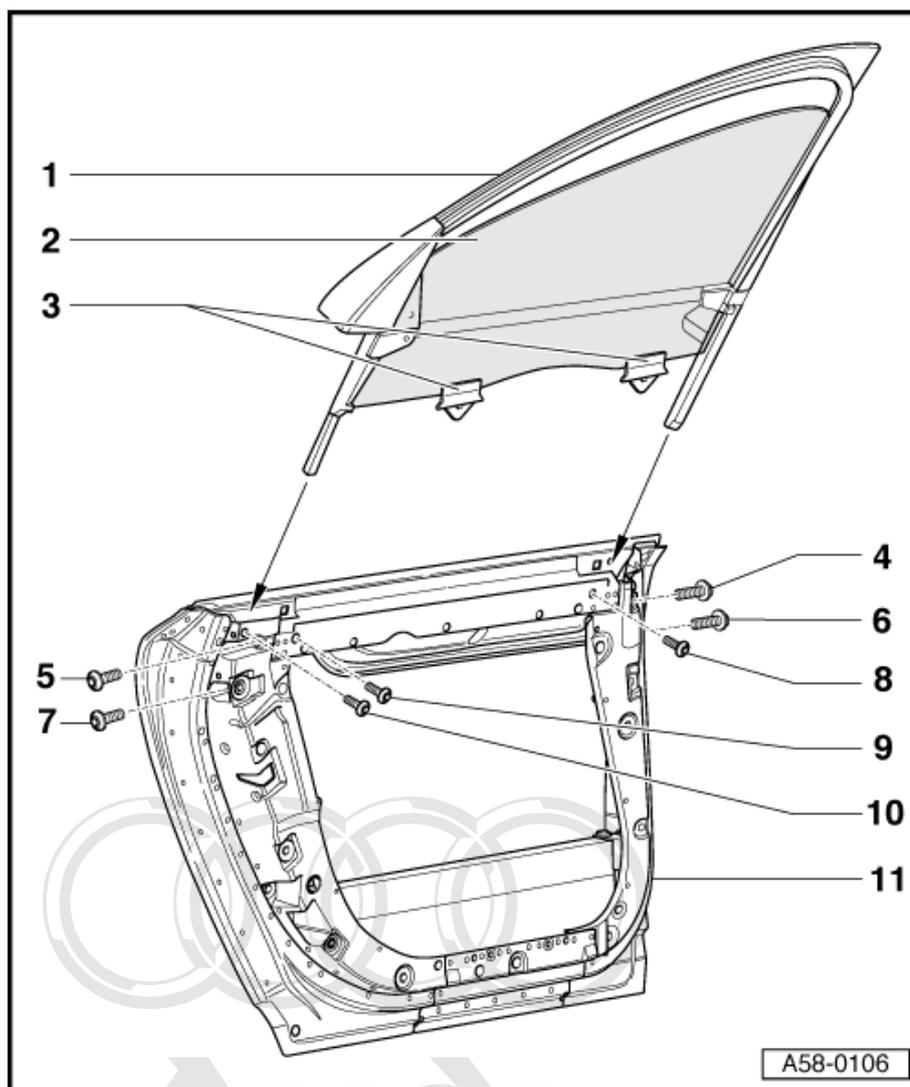
- 10 Nm

9 - Pan-head bolt

- 10 Nm

10 - Pan-head bolt

- 10 Nm

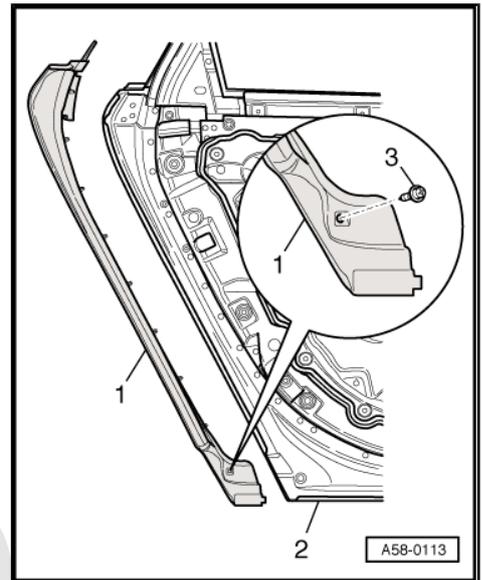


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11 - Rear door

Fitting outer door seal

- To remove, unscrew bolt -3- (bottom).
- Unclip seal at top from door and detach seal.
- Bonding surface must be free of dust and grease.
- Before fitting, clean bonding surface at door -1- with D 009 401 04.
- When installing, start by clipping seal -2- into door (top).
- Working from bottom, detach backing as far as embossed area.
- Bond on seal in embossed area.
- Fix moulding in position at bottom and fully bond on seal in lower area.
- Detach rest of backing and bond on seal in upper area.
- Press seal firmly onto door.
- Screw on seal at bottom with bolt -3-.



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1.2 Removing and installing window regulator

1 - Mounting panel

- Mounting panel removed ⇒ [page 63](#)
- Position new window regulator on mounting panel as shown.
- Make sure cables are positioned correctly.
- Observe riveting sequence.
- Fit window regulator at top and bottom with one rivet each.
- Then fit second rivet at top.

2 - Aluminium rivet

- Fit using special pop rivet pliers -V.A.G 1753A- .

3 - Driver

- Door window is guided in driver.

4 - Mounting for window regulator motor

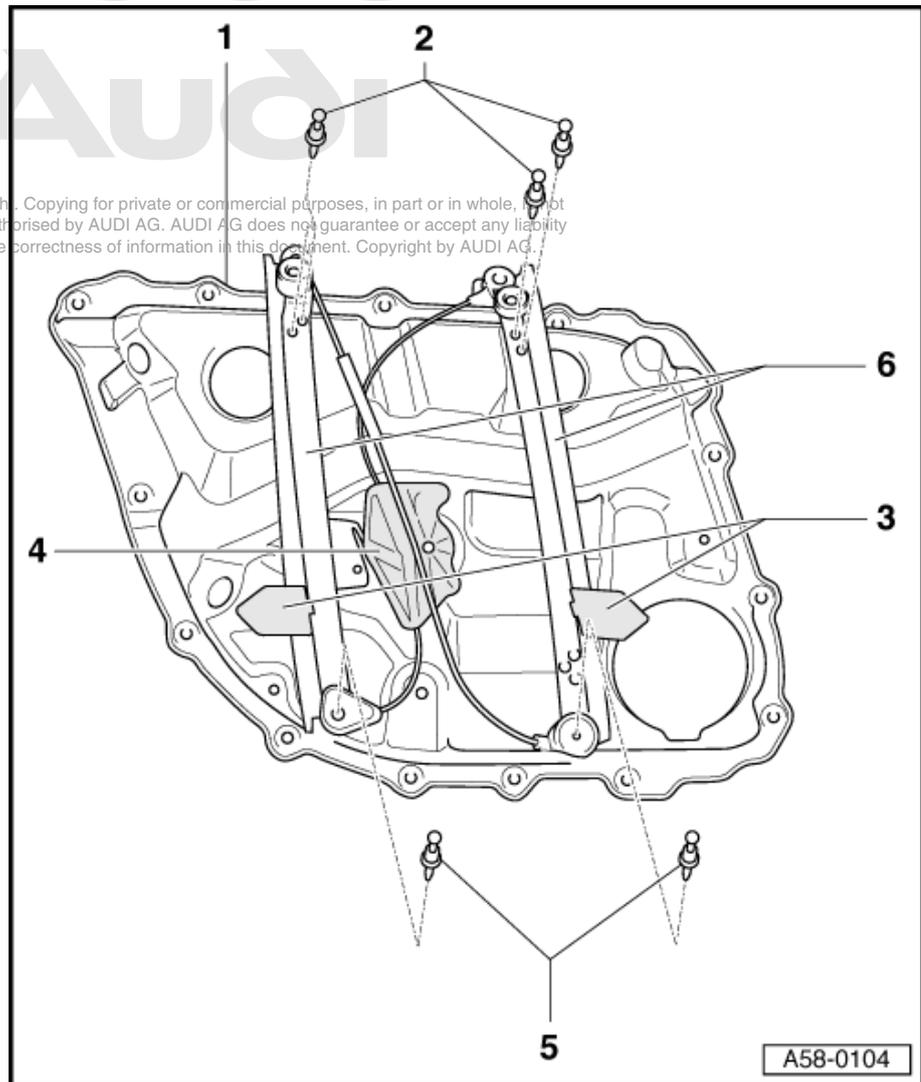
- Threaded pins of mounting must engage audibly in mounting panel ⇒ [page 61](#) .

5 - Steel rivet

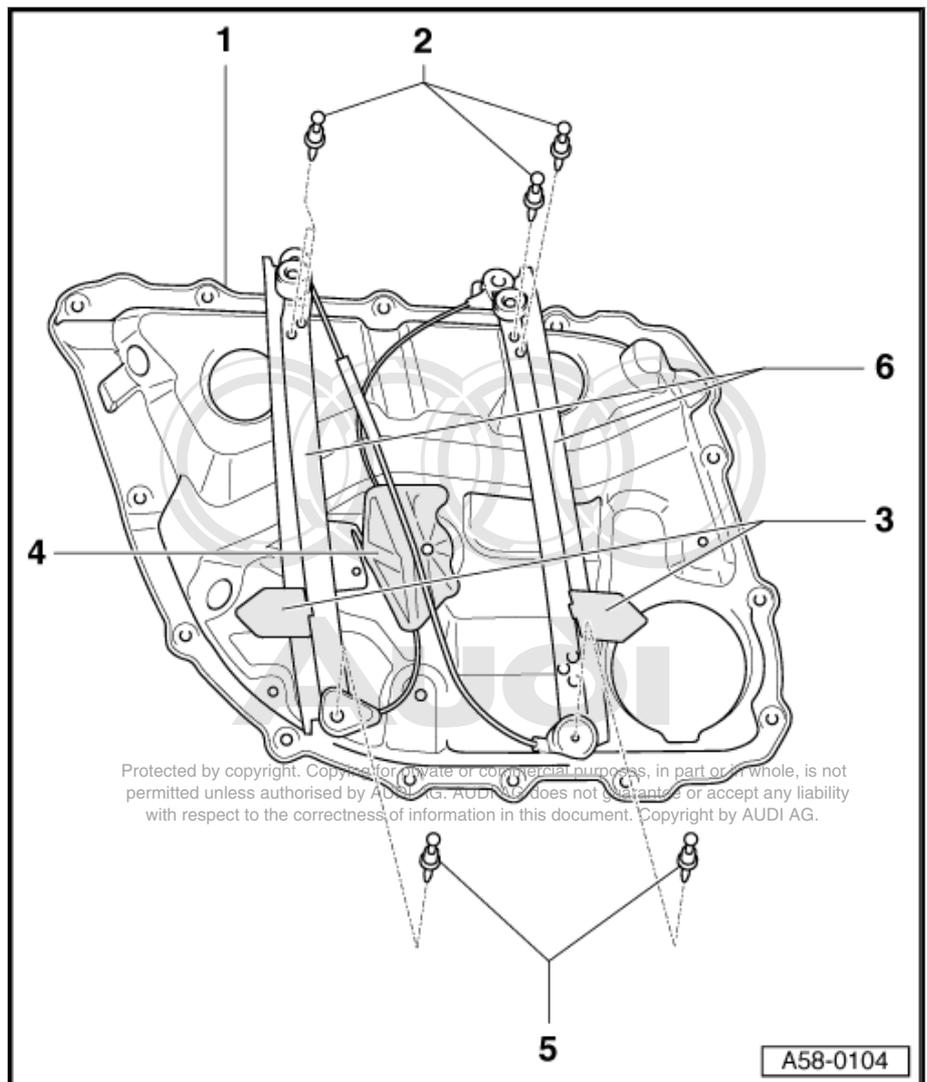
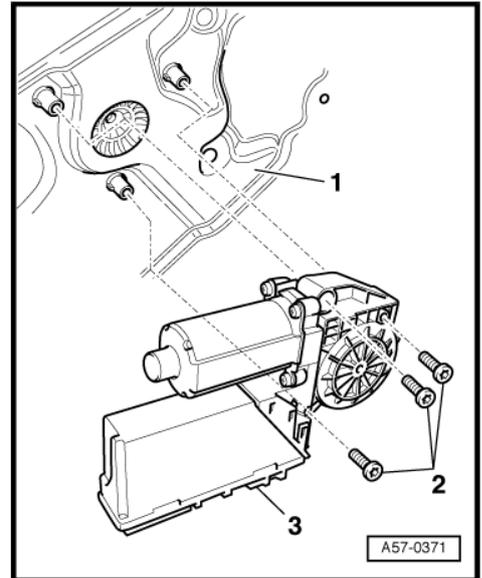
- Fit using special pop rivet pliers -V.A.G 1753A- .

6 - Window regulator

- Removing:
- Top and bottom rivets must have been drilled out and rivet shanks knocked out.
- Squeeze catches of threaded pins at mounting for window regulator from inside and push mounting out.
- Detach window regulator from mounting panel.
- Installing:
- Place window regulator onto mounting panel as shown.
- Make sure cables are positioned correctly.
- Press threaded pins of mounting for window regulator motor completely into mounting panel.
- Threaded pins must engage audibly in mounting panel.
- Rivet window regulator using special pop rivet pliers -V.A.G 1753 A- .



Removing and installing window regulator motor



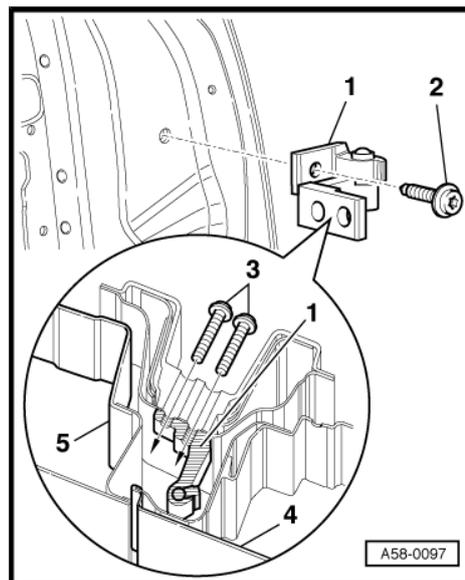
- Door trim removed ⇒ Rep. Gr. 70



- To remove, unscrew bolts -2- and detach window regulator motor -3- from mounting panel -1-.
- When installing, tighten bolts to 3.5 Nm.

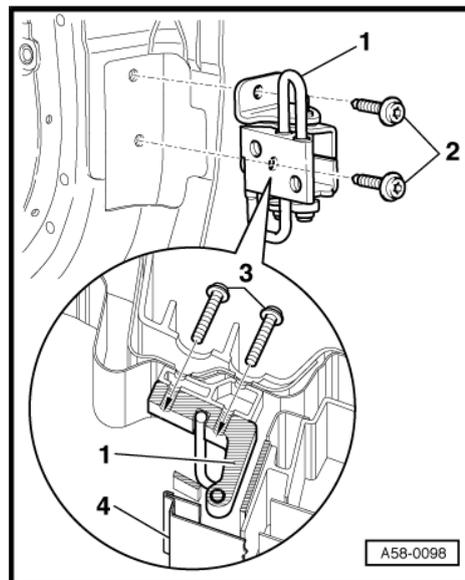
Door hinge (top)

- Door hinge (top) -1-
- Torx bolt -2- -T45- fitted on door side (32 Nm)
- Torx bolt -T45- -3- (fitted from inside vehicle), B-pillar, 32 Nm
- Before removing door hinge (top), detach B-pillar trim => Rep. Gr. 70 .
- Rear door -4-



Door hinge (bottom)

- Door hinge (bottom) -1-
- Torx bolts -2- -T45- fitted on door side (32 Nm)
- Torx bolts -3- -T45- fitted at A-pillar from inside of vehicle (32 Nm)
- A-pillar trim (bottom) removed => Rep. Gr. 70 .
- Torx bolt -3- -T45- fitted from outside of vehicle (32 Nm)
- Rear door -4-



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1.3 Removing and installing mounting panel

1 - Rear door

2 - Window regulator

- Removing ⇒ [page 60](#) .

3 - Mounting panel

- Door trim removed ⇒ Rep. Gr. 70 .
- Removing:
- Disconnect all electrical wires to control units/ loudspeakers.
- Unfastened or severed cable ties must be attached at same position as on removal.
- Remove window regulator motor ⇒ [page 67](#) .
- Remove plastic covers at penetrations -arrows- in mounting panel ⇒ [page 64](#)
- Slide door window down by approx. 10 cm until door window drivers -11- with bolts -4- can be accessed through penetrations -arrows-.

4 - Torx bolt

- Must be unscrewed before door window or mounting panel can be removed
- 4 Nm

5 - Torx bolts

- Unscrew all bolts when removing mounting panel.
- 8 Nm

6 - Hexagon flange nut

- 5 Nm

7 - Motor for power latching system

- Removing and installing ⇒ [page 65](#)

8 - Washer

- Must always be fitted.

9 - Connecting element

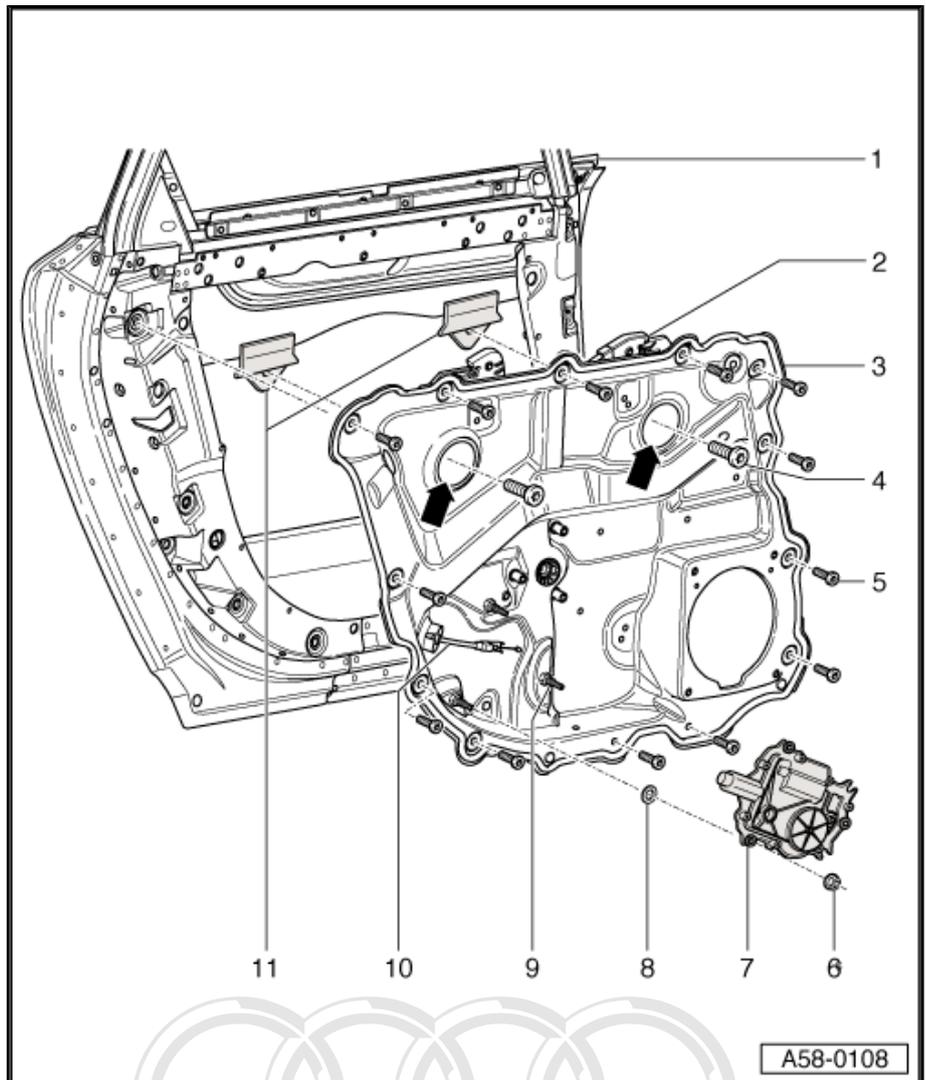
- Pre-assembly ⇒ [page 64](#)

10 - Cable

- Engage in motor for power latching system ⇒ [page 66](#)

11 - Mountings

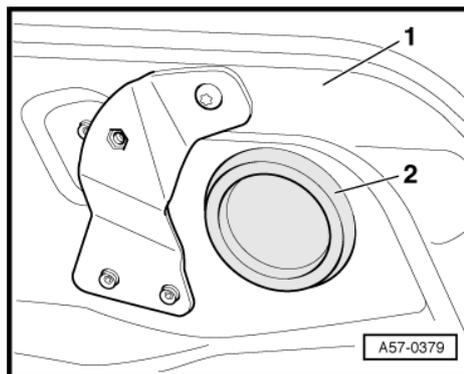
- Must rest on window regulator drivers when fitting door window ⇒ [page 64](#)



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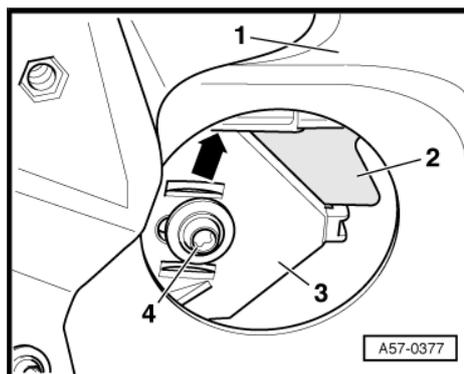
Cover for mounting panel

- Pull out cover -2- when removing mounting panel -1- or door window.



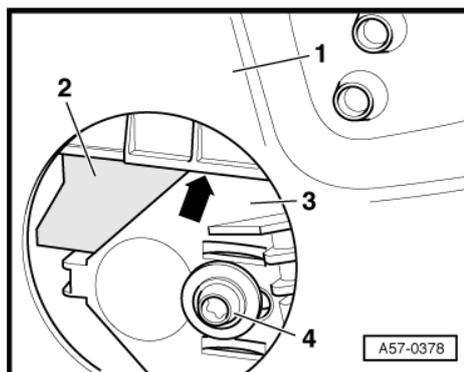
Driver (front)

- Detach mounting -2- for door window from driver -3- when removing door window or mounting panel -1-.
- When installing, tighten Torx bolt -4- to 4 Nm.
- When installing, make sure window mounting -2- is resting on top edge of driver -3-.



Driver (rear)

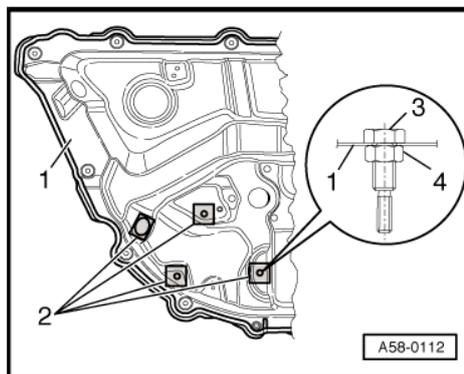
- Unscrew door window mounting -2- from driver -3- when removing door window or mounting panel -1-.
- When installing, tighten Torx bolt -4- to 4 Nm.
- When installing, make sure window mounting -2- is resting on top edge of driver -3-.



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Connecting element pre-assembly operations

- If necessary, remove adhesive aluminium strips -2- over holes at mounting panel -1- (new component only).
- Insert connecting elements -3- in mounting panel -1- and tighten hexagon nuts -4- to 20 Nm.



1.4 Removing and installing motor for power latching system

1 - Hexagon flange nut

- 5 Nm

2 - Rubber bush

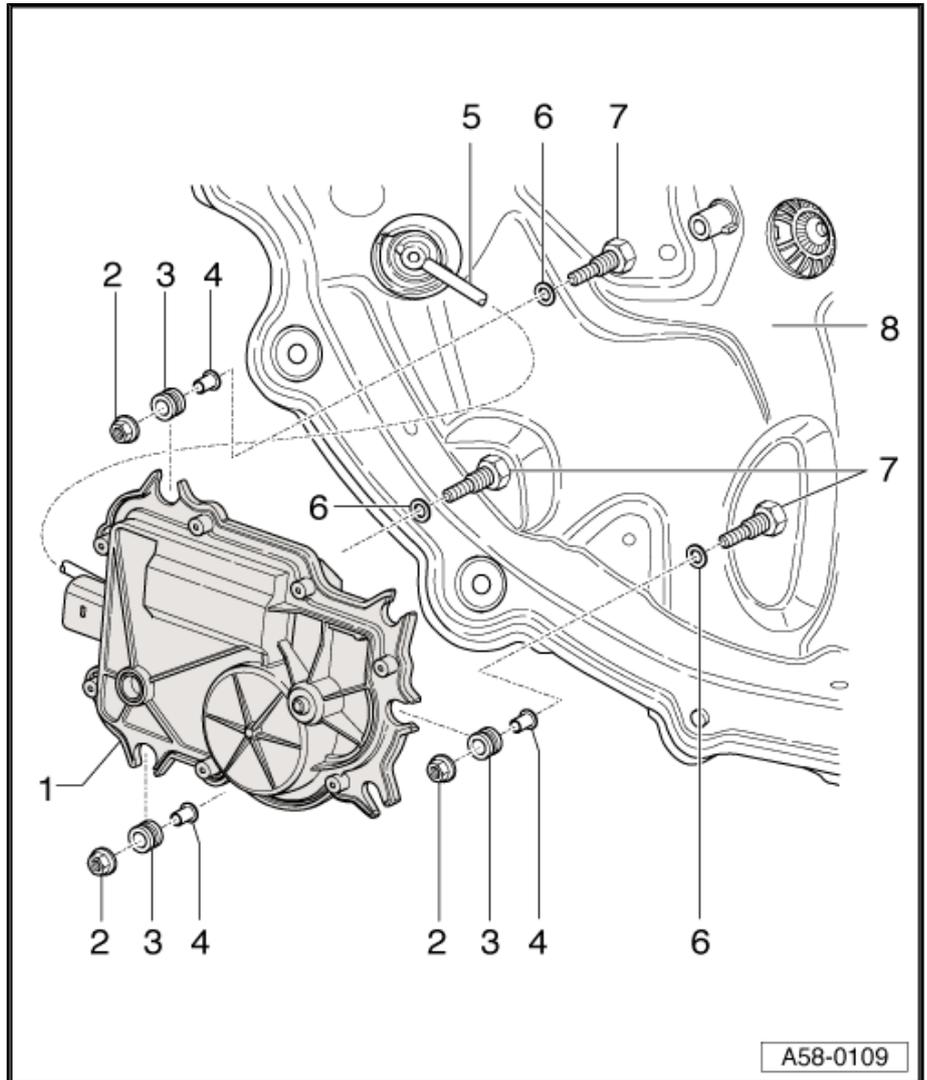
- Rubber bush and socket are decoupling elements and must always be fitted.
- Inserted in side of motor

3 - Socket

- Inserted in rubber bush

4 - Motor for power latching system

- Door trim removed ⇒ Rep. Gr. 70 .
- Removing:
- To remove, unscrew hexagon flange nuts -1- from connecting elements -7-.
- Detach motor and disengage cable ⇒ [page 66](#)
- Installing:
- Before installing, engage Bowden cable in motor for power latching system.
- Attach washers -5- to connecting elements -7-.
- Position motor for power latching system on connecting elements and tighten hexagon nuts to 5 Nm.



A58-0109

5 - Washer

- Must always be fitted.

6 - Cable

- Engage in motor for power latching system ⇒ [page 66](#)

7 - Connecting element

- Pre-assembly ⇒ [page 66](#)
- Installation position ⇒ [page 66](#)

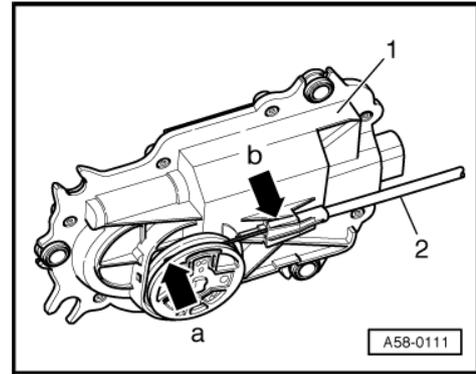
8 - Mounting panel

- Removing and installing ⇒ [page 63](#)

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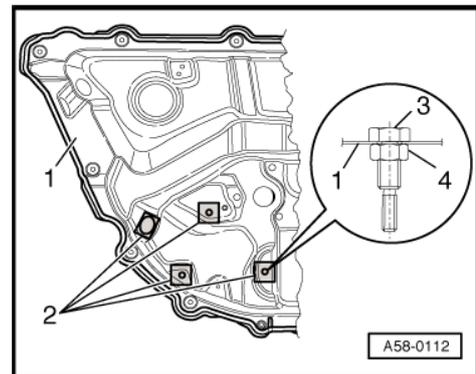
Disengaging and engaging cable

- To remove, start by unclipping cable from motor at location marked by arrow -b-.
- Disengage cable from reel and detach motor.
- Install in reverse order.



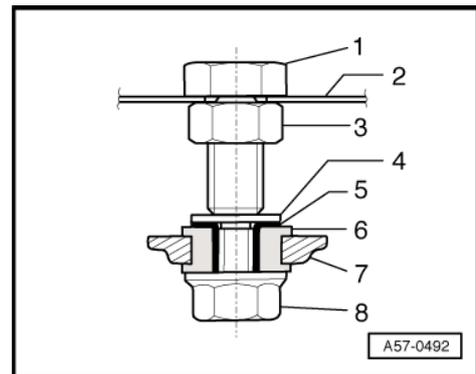
Pre-assembly operations for connecting elements

- On new component, remove adhesive aluminium strips -2- from mounting panel -1-.
- Pre-assembly involves inserting connecting elements -3- into mounting panel -1- and tightening hexagon nut -4- to 20 Nm.



Installation position of connecting element

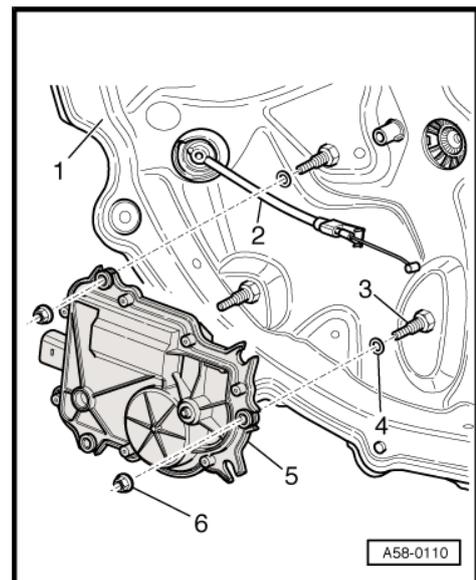
- Connecting element -1- pre-assembled by inserting it in mounting panel -2- and securing with hexagon nut -3-.
- Washer -4- must always be fitted.
- Socket -5- with rubber bush -6- is inserted in side of motor -7-.
- Motor positioned on connecting element and secured with nut -8-.
- After engaging Bowden cable, tighten nut to 5 Nm.



Installing motor for power latching system

- Mounting panel installed.
- Position washers -4- on connecting elements -3-.
- Engage cable -2- in reel at motor -5- ⇒ [page 66](#)
- Attach motor -5- to connecting elements -3- and tighten hexagon nuts to 5 Nm.

Procedura, metoda, sposób wykonania, dla prywatnych lub celów komercyjnych, w całości lub częściowo, nie jest dozwolona bez zgody AUDI AG. AUDI AG nie gwarantuje i nie akceptuje odpowiedzialności z tytułu błędów w niniejszym dokumencie. Copyright by AUDI AG.



1.5 Removing and installing window regulator motor

Removing

- Door trim removed ⇒ Rep. Gr. 70

Note

- ◆ *Window regulator motor can be removed or installed with motor or side window in any position.*
- ◆ *Unplug connectors before removing motor.*

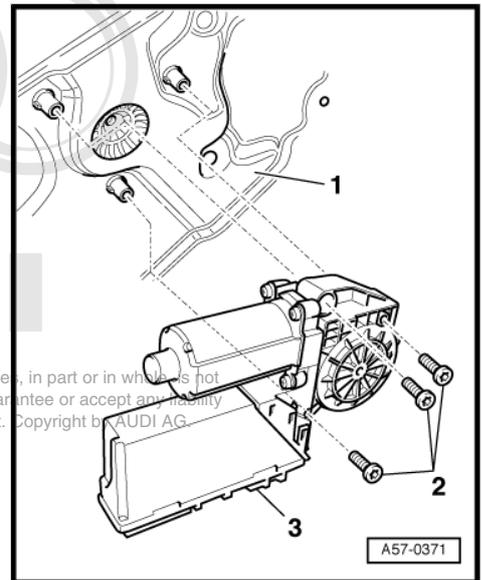
- Unscrew Torx bolts -2- -T30- and detach motor.

Installing

- When installing, make sure threaded pins -arrows- are engaged in inner door panel.
- Fit window regulator motor -3- and secure with bolts -2-.
- Tightening torque: 3.5 Nm.

Note

- ◆ *After installing the electric motor and attached wiring, first turn the ignition on and then off again.*
- ◆ *Then raise door window as far as it will go and keep window regulator switch pulled for approx. 2 seconds.*
- ◆ *The window regulator is now in the basic setting and the opening/closing function is activated.*



1.6 Rear door handle - exploded view

1 - Door handle mounting

- ❑ Slide of mounting locks retainer tabs -arrows- of door handle
⇒ [page 68](#)

2 - Rear door

3 - Clip

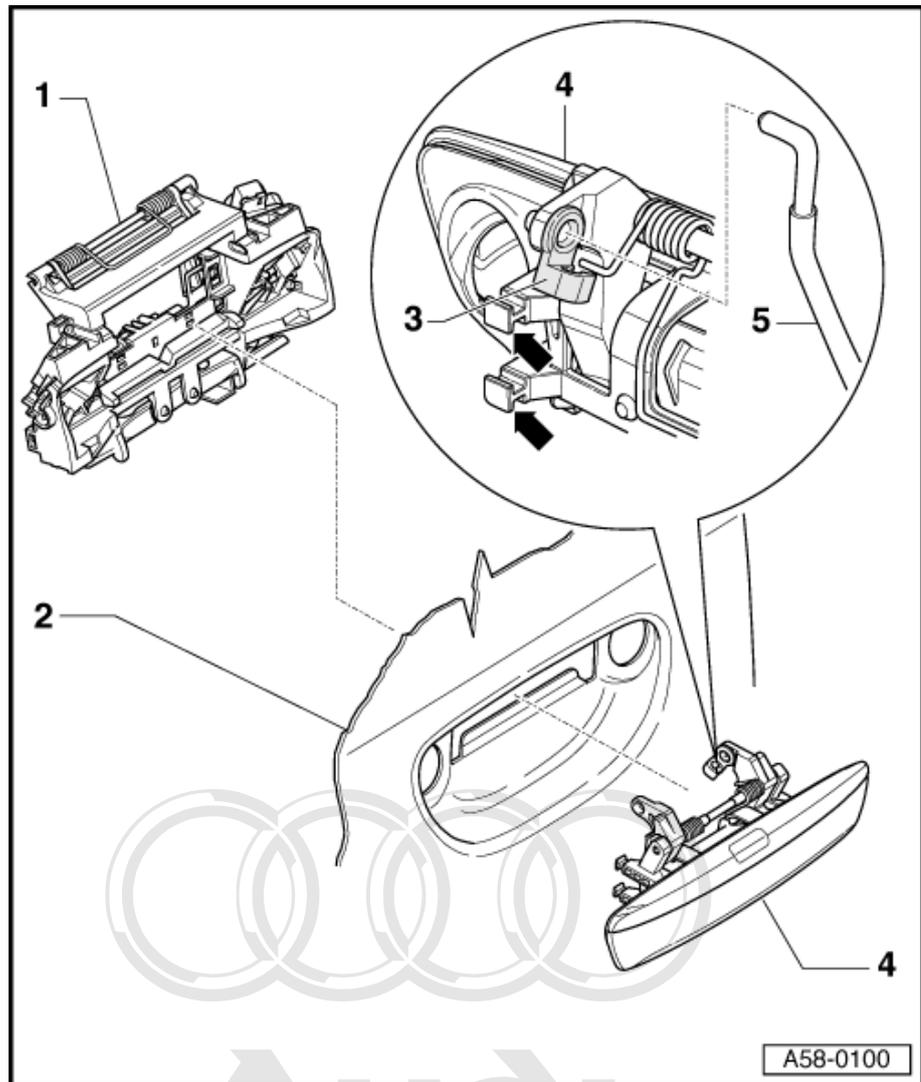
- ❑ Insert operating rod -5- in clip, swivel clip through 90° and allow to engage at operating rod.

4 - Door handle

- ❑ Removing ⇒ [page 70](#) .

5 - Operating rod

- ❑ Engage in door lock
⇒ [page 69](#)



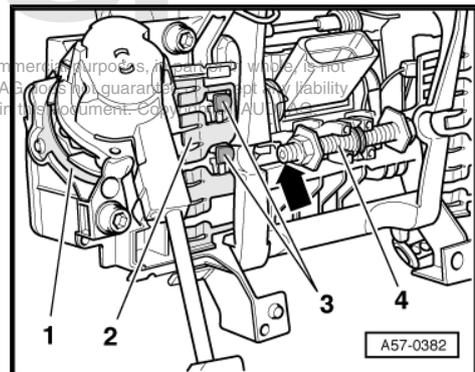
Locking door handle in mounting



Note

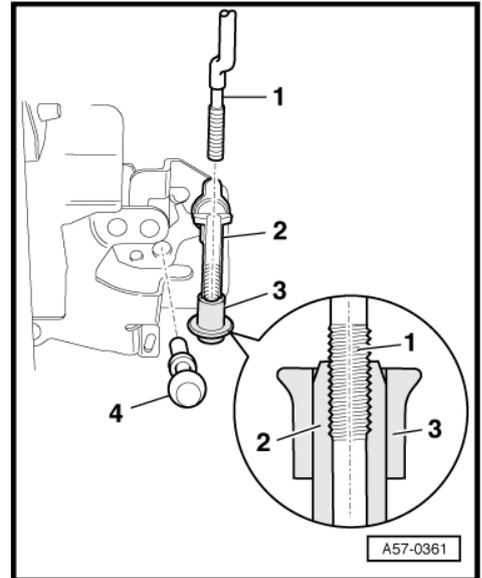
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- ◆ *Removal of door handle pushes slide -2- apart, thus releasing retainer tabs -3- and enabling door handle to be detached from outside.*
- ◆ *Illustration shows door handle in released position.*
- To remove door handle, insert Torx screwdriver -T15- through end face of door into mounting -arrow- of spindle -4-.
- Turn spindle anti-clockwise as far as it will go until retainer tabs release door handle.
- Detach retaining clip -1- when removing lock cylinder
⇒ [page 45](#) .
- Pull door handle out of mounting.



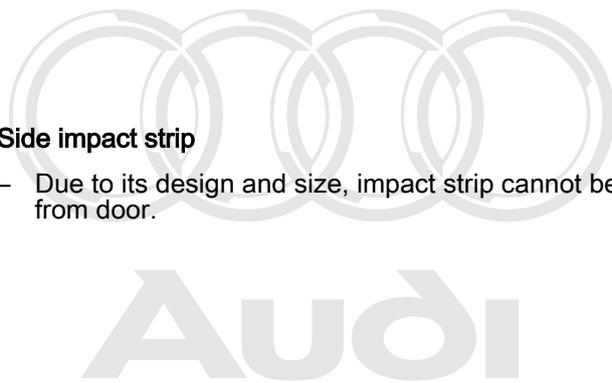
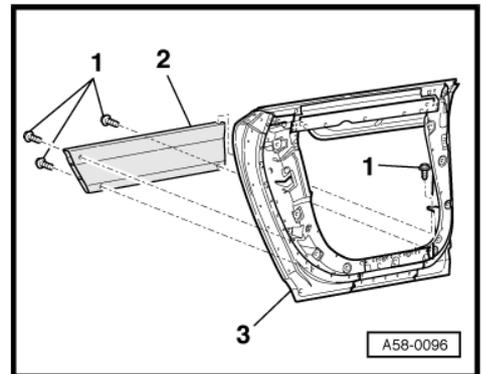
Engaging operating rod in door lock

- When installing a new door lock, clip operating rod -1- into locking sleeve -2-.
- To lock operating rod, push slide -3- of locking sleeve -2- upwards.
- Do not pull locking pin -4- out of door lock until operating rod has been fitted.



Side impact strip

- Due to its design and size, impact strip cannot be removed from door.



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1.7 Removing and installing rear door handle

1 - Door handle mounting

- Door trim removed => Rep. Gr. 70
- Mounting panel removed => [page 63](#)
- Unclip mounting bracket of door handle mounting from door lock => [page 73](#).

2 - Spindle

- Accessible from end face of door under plastic cover
- Turn anti-clockwise with Torx screwdriver -T15- to release slide of door handle mounting => [page 68](#)
- Door handle can then be detached outwards from door.
- When installing door handle, screw in spindle as far as it will go.

3 - Housing for lock cylinder

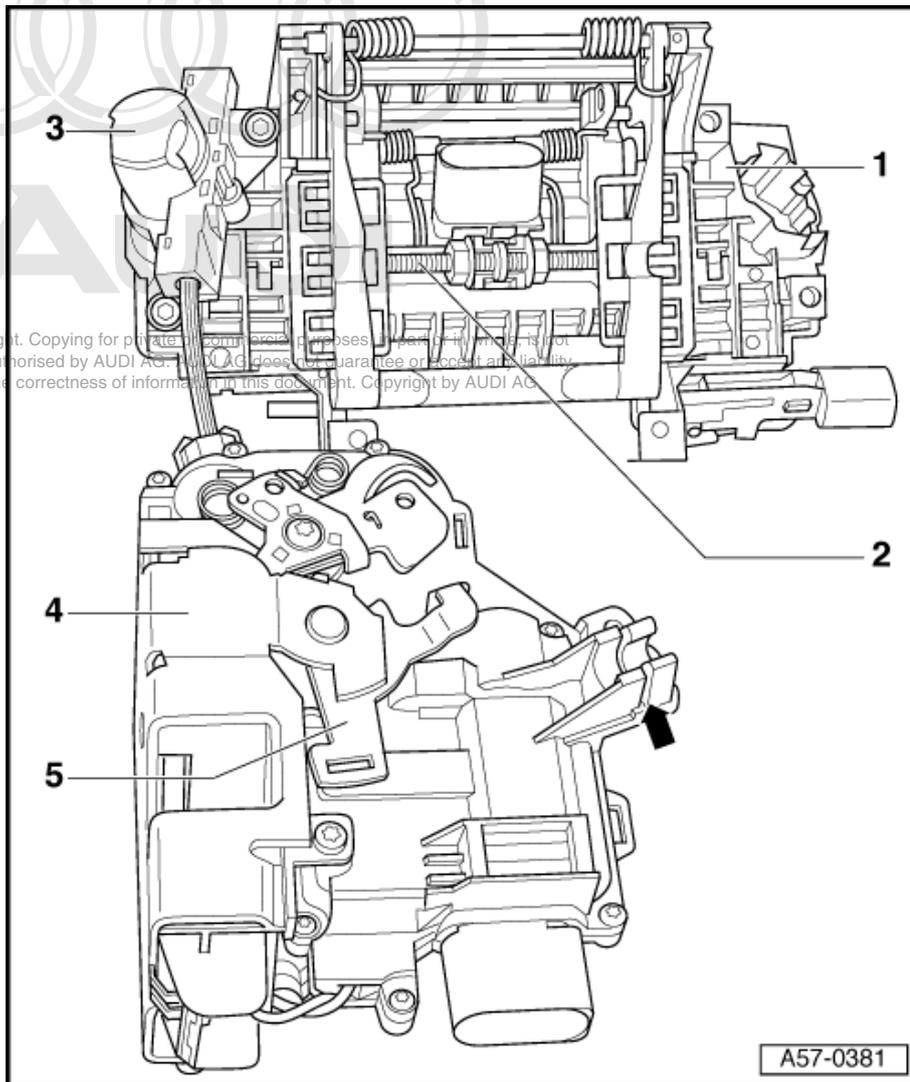
- Lock cylinder is fitted at driver's door only.

4 - Door lock

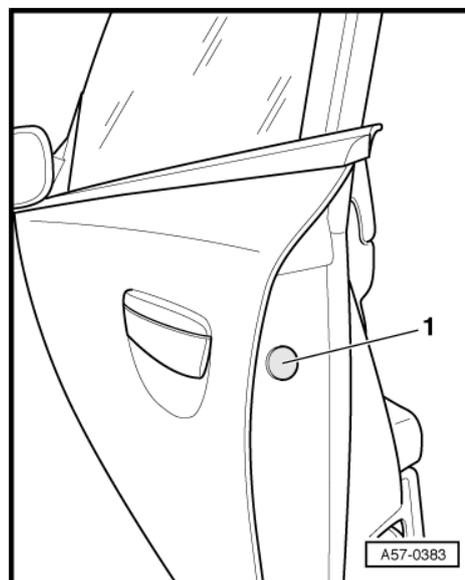
- Removing => [page 71](#).

5 - Release lever

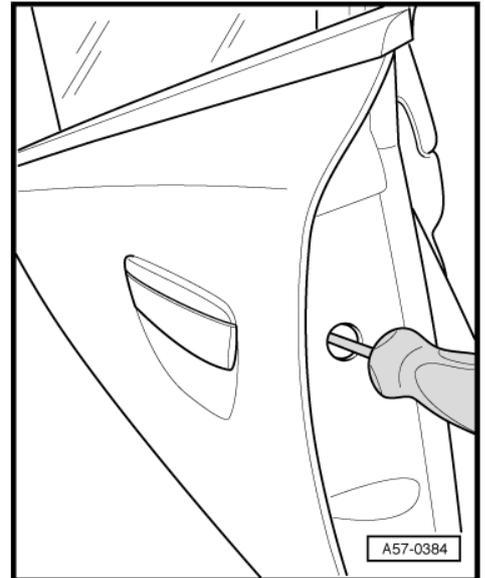
- Bowden cable for interior door handle is engaged here and clipped in at door lock -arrow-.



- Unclip cover -1- from door at end face.
- Unclip operating rod at top of door handle.



- Use Torx screwdriver (T 15) to turn spindle in door mounting anti-clockwise as far as it will go and detach door handle from door.



1.8 Removing and installing door lock

1 - Rear door

2 - Door lock (rear)

- Mounting panel and window frame removed
- Lock cover removed
⇒ [page 72](#)
- Unplug electrical connectors to door lock.
- Disengage Bowden cable -5- from release lever -6-.
- Unscrew multi-point head bolts -2-.
- Take door lock downwards out of door.

3 - Grommet

- Press into mounting panel.

4 - Bowden cable

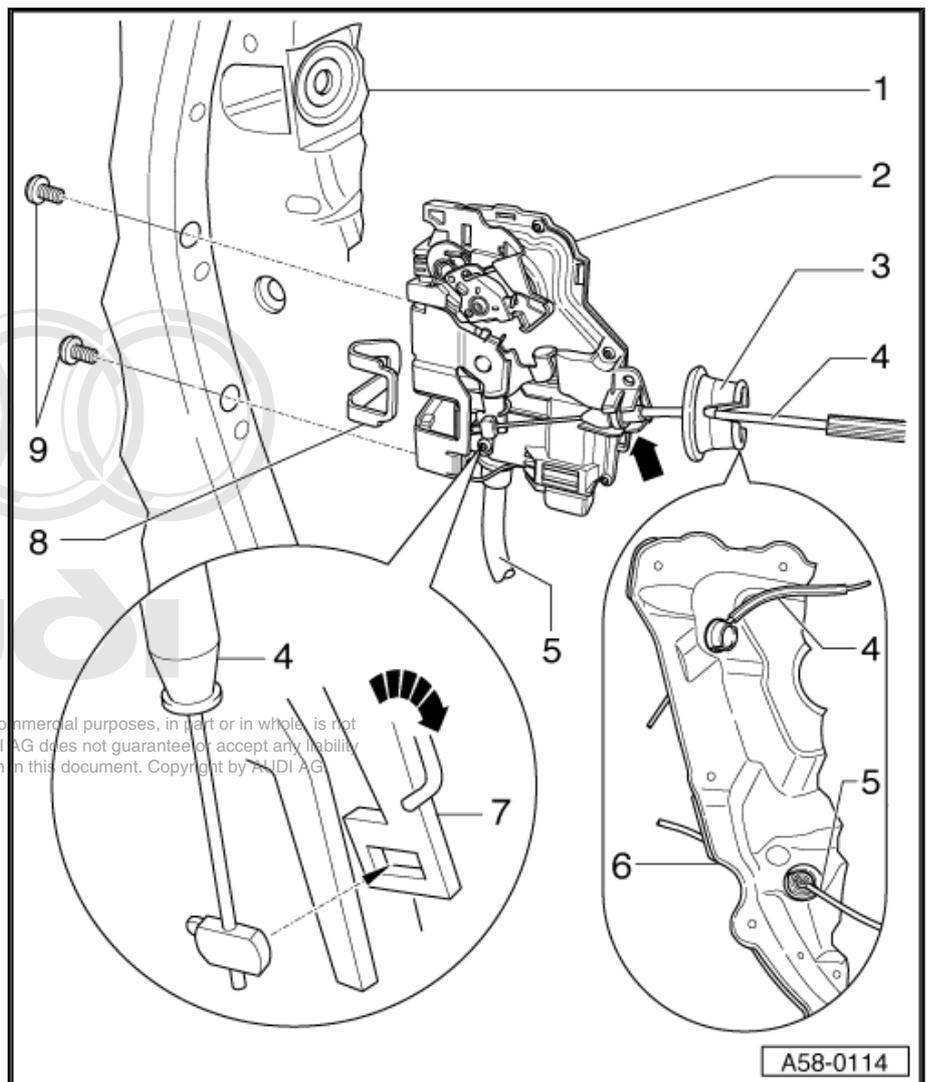
- For interior door handle
- Clipped into door lock - arrow - to secure
- Engage in interior door handle ⇒ [page 72](#)

5 - Release lever

- Insert Bowden cable in operating lever in direction of arrow.
- Swivel Bowden cable through 90° and clip into door lock.

6 - Mounting panel

- Guide cables for interior door handle/power latching system through mounting panel (as shown) and press in grommets.



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7 - Bowden cable

- Vehicles with power latching system only
- Pull through mounting panel and engage in motor for power latching system.
- Engage Bowden cable in motor for power latching system => [page 66](#)

8 - Seal

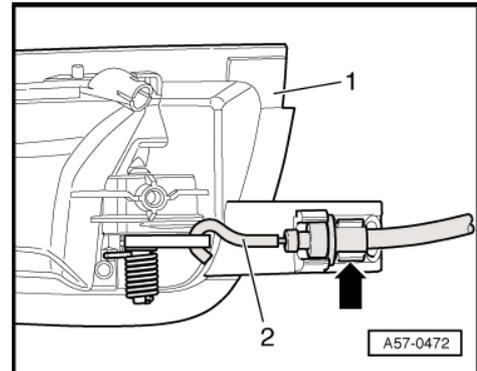
- Insert seal in side of door lock.

9 - Multi-point socket head bolt

- 20 Nm

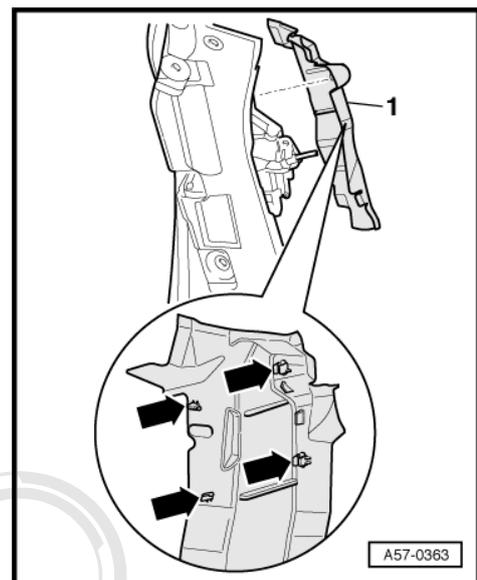
Engaging Bowden cable in interior door handle

- When fitting door trim, engage cable -2- as shown in interior door handle -1- from top to bottom.
- Clip cable -arrow- into interior door handle.



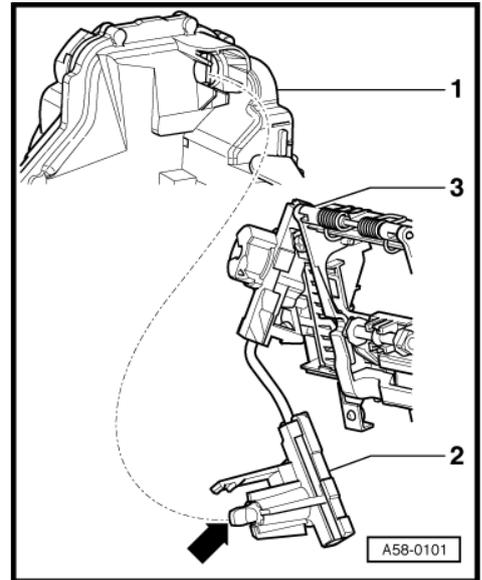
Lock cover

- Detached prior to removal of door lock
- Unclip from door to remove -arrows-.



1.9 Clipping mounting bracket into door lock

- Insert mounting bracket -2- of door handle mounting -3- with actuating arm -arrow- in door lock -1- and clip both components together.

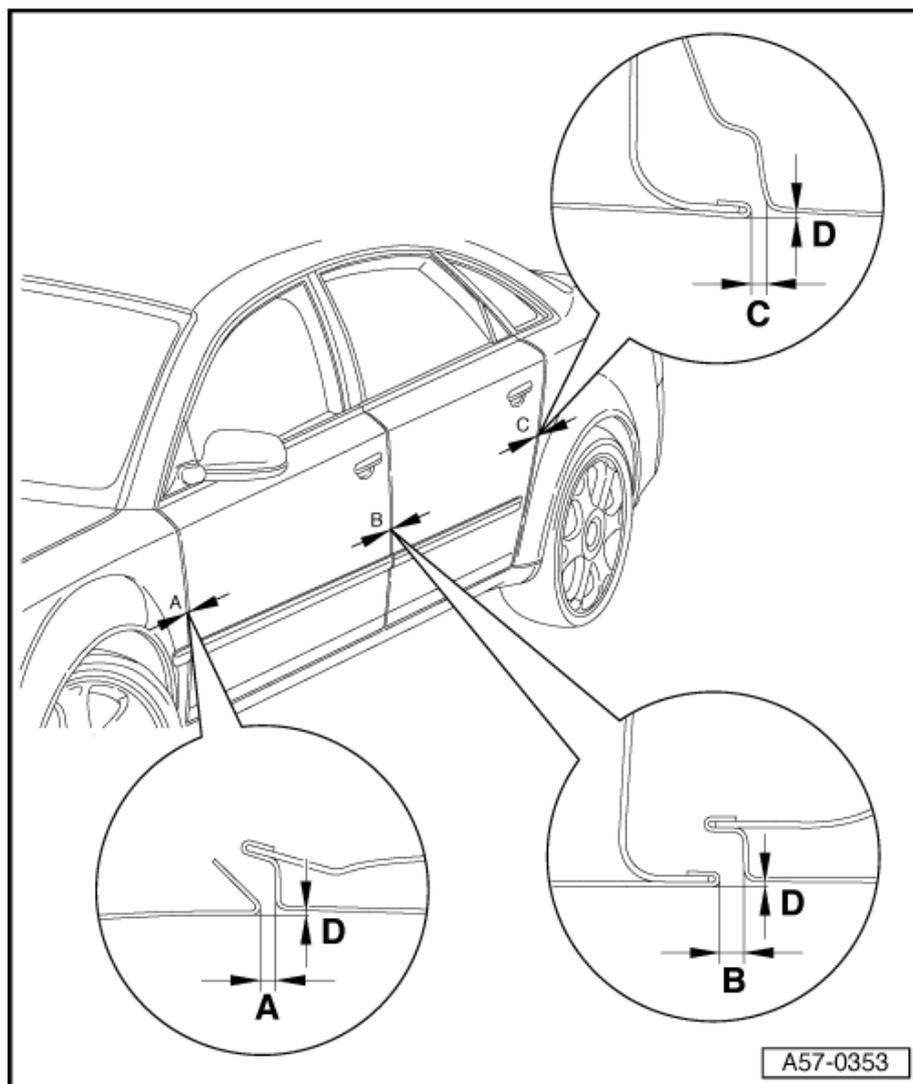


1.10 Adjusting rear door

Panel gaps



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 **Note**

- ◆ Use setting gauge -3371- to check panel gaps.
 - ◆ Dimension -A- = 3.5 mm ±0.5 mm
 - ◆ Dimension -B- = 4.5 mm ±0.5 mm
 - ◆ Dimension -C- = 3.5 mm ±0.5 mm
 - ◆ Dimension -D- = 0 mm + 1 mm
- Parallel deviation of gap must not exceed 0.5 mm.

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Adjusting door at striker plate

- Slacken off bolts -1-.
- Use markings -arrows a- and -arrows c- for lateral adjustment.
- Move striker plate -2- until door is flush with body contour.
- Seal -3- must always be fitted.

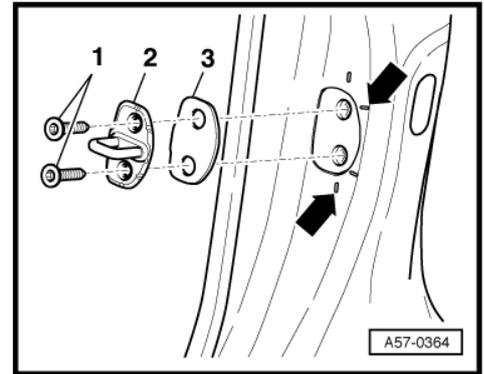
 **Note**

Use this adjustment only to adjust door inwards or outwards, not vertically.

- Use markings -arrows b- and -arrows d- for height adjustment.
- If adjustment is correct, striker plate should engage centrally in door lock.
- Tighten bolts to 25 Nm.

1.11 Checking door alignment with template -T40038/2-

- Rear door is adjusted in same manner as front door
=> [page 51](#).



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60 – Sunroof

1 Sliding/tilting sunroof - exploded view

1 - Sunroof motor

- Removing ⇒ [page 82](#)
- Initialisation is required following removal and installation ⇒ [page 82](#).

2 - Bolt with washer -T25-

- 3 Nm

3 - Electrical wiring for sunroof motor

4 - Electrical wiring for sunroof switch

5 - Wind deflector motor

- Removing ⇒ [page 80](#)
- Initialisation is required following removal and installation ⇒ [page 82](#).

6 - Torx bolt -T8-

- Self-tapping
- 1.5 Nm

7 - Wind deflector positioner

- Not available as a separate replacement part

8 - Sunroof frame

9 - Sunroof seal

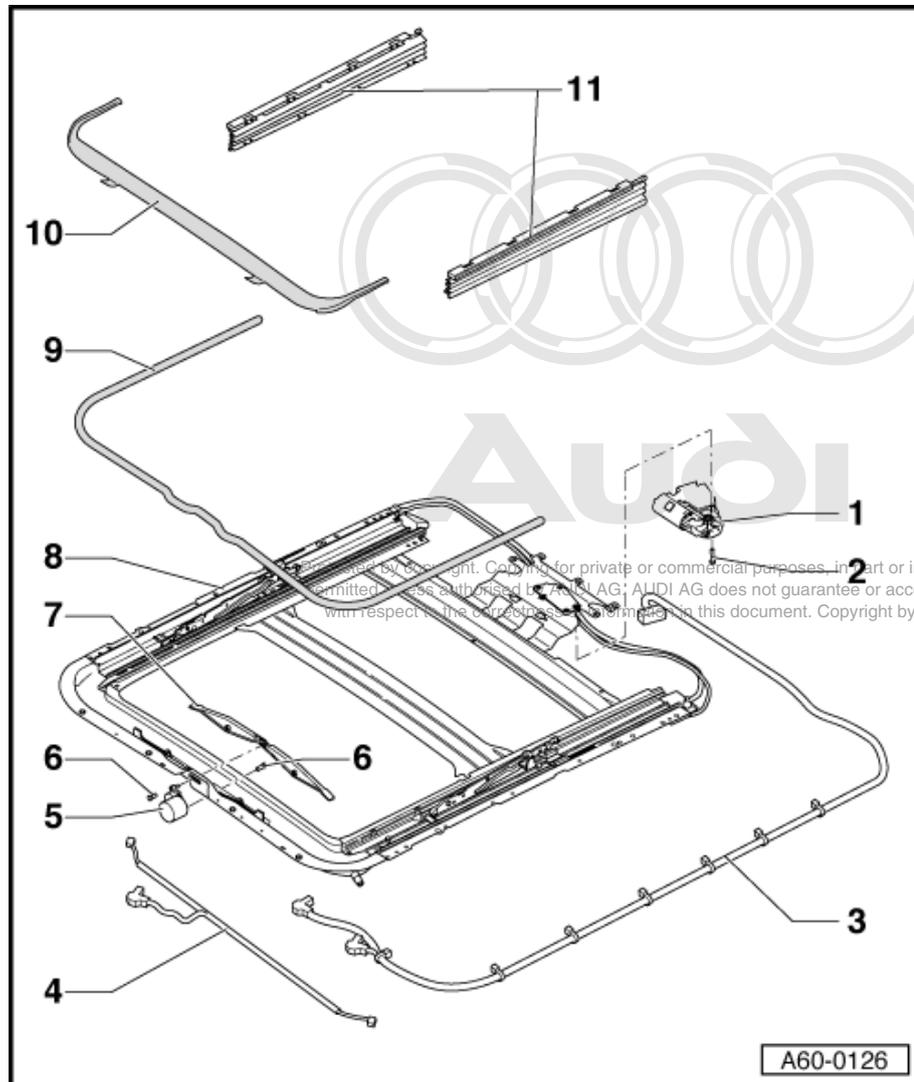
- Renew after removing sunroof.

10 - Wind deflector

- Removing ⇒ [page 78](#)

11 - Inner trim

- Removing ⇒ [page 87](#)



1.1 Removing and installing sliding/tilting sunroof frame

1 - Sunroof frame

- ❑ Remove headliner ⇒ Rep. Gr. 70
- ❑ Remove curtain airbag on left side of vehicle ⇒ Rep. Gr. 69 .
- ❑ Prior to removal, unplug connectors and detach water drain hoses at front and rear.
- ❑ Unscrew nuts with washers -3- and remove frame through front passenger's door.
- ❑ Attachment points ⇒ [page 77](#)

2 - Wind deflector motor

- ❑ Removing ⇒ [page 80](#)

3 - Nut with washer (15x)

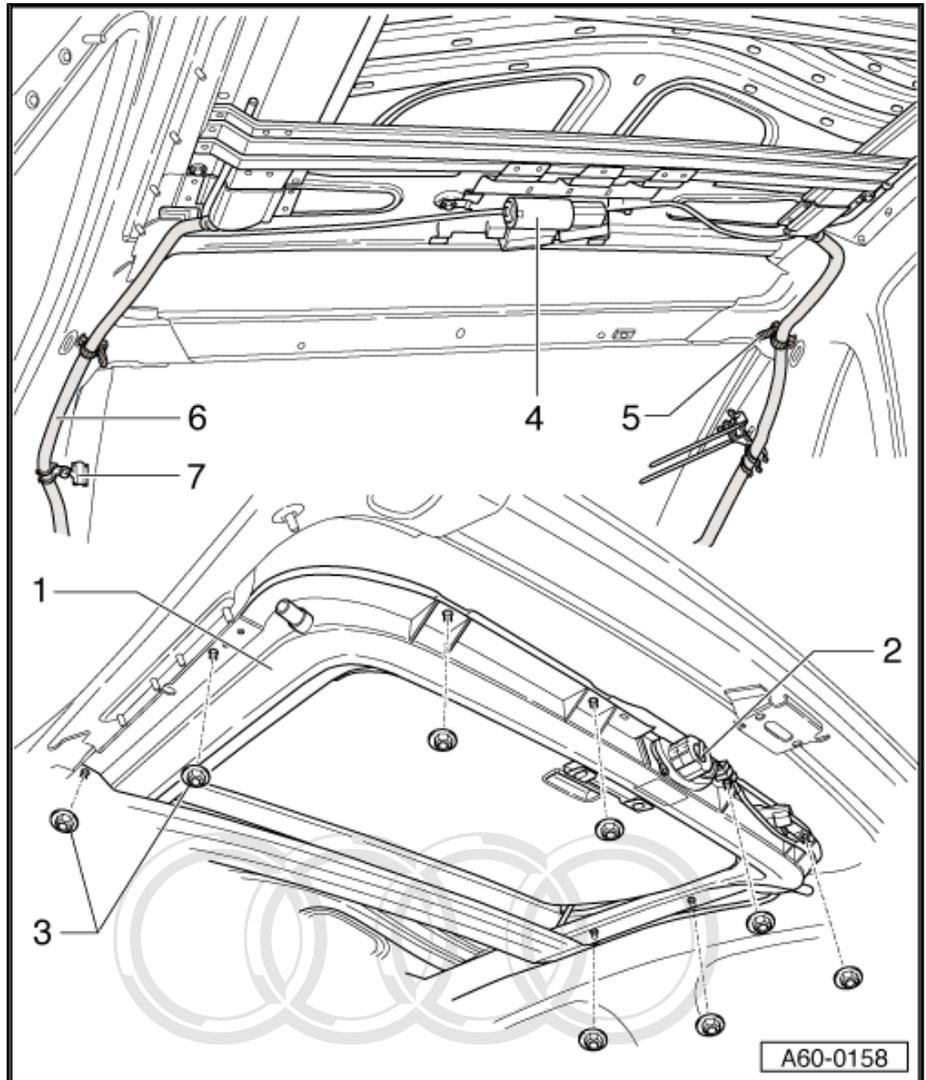
- ❑ 8 Nm

4 - Sunroof motor

- ❑ Removing ⇒ [page 82](#)

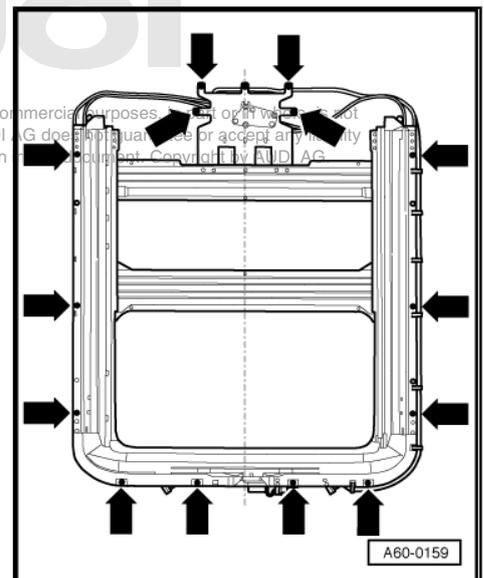
5 - Cable tie

- ❑ Re-attach all cable ties at same locations as on removal.



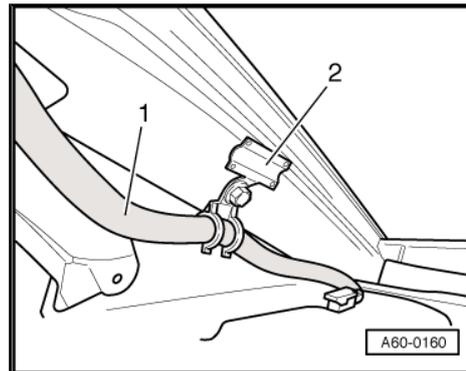
Attachment points

- Completely unscrew nuts with washers (15x) -arrows-.
- When installing, tighten nuts to 8 Nm.



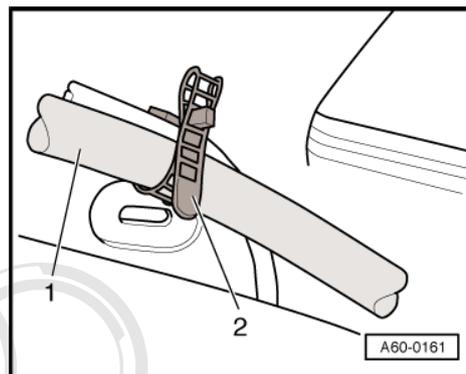
Water drain hoses

- Clip water drain hose -1- into clip -2- as shown.



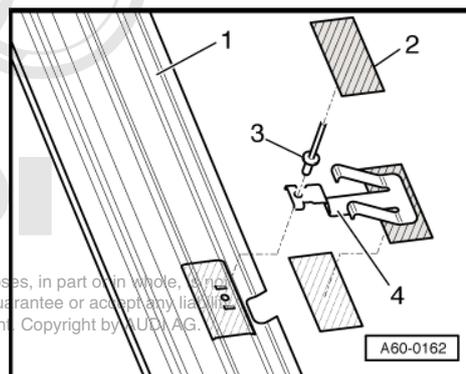
Cable clip

- Attach water drain hose -1- with cable tie -2- as shown.



Installing drive spring

- Bond on felt pad -2- before installing drive spring on inside of panel -1-.
- Rivet -3-
- Drive spring -4-

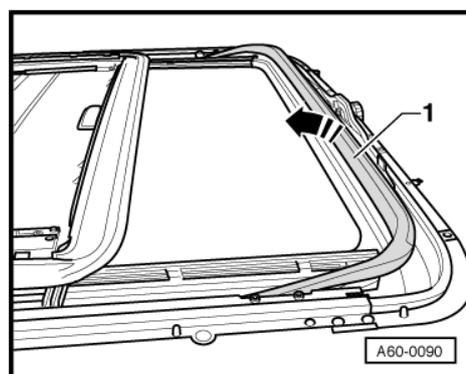


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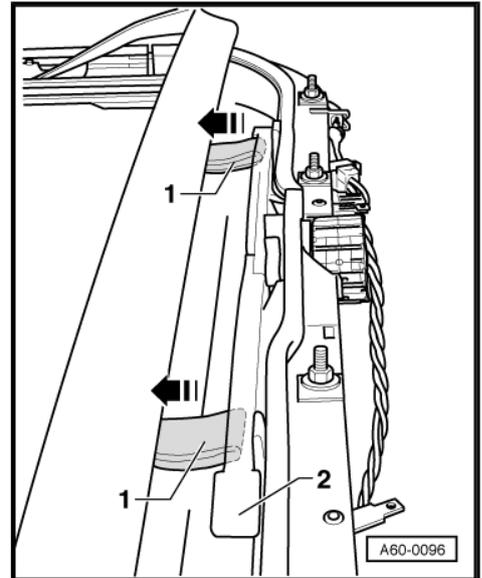
1.2 Removing and installing wind deflector

Removing:

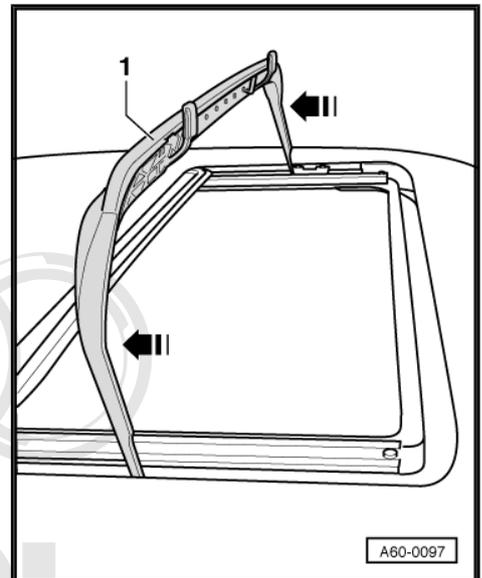
- Open sunroof fully.
- Wind deflector -1- is raised.
- Switch off ignition.



- Press out stops -1- of wind deflector to rear in direction of arrow from under positioner -2-.



- Swivel wind deflector -1- approx. 90° upwards and pull it to rear out of mounts.
- Install in reverse order of removal.



1.3 Adjusting wind deflector

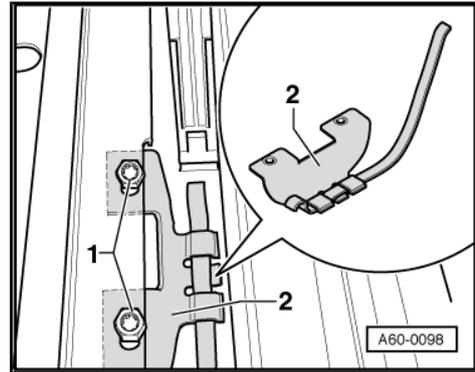


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To ensure proper operation, check position of wind deflector and adjust in longitudinal direction if necessary.

- Fully open sunroof towards the rear.
- Wind deflector seal must make slight contact with edge of roof.
- As a check: It must just be possible to slide a piece of paper between edge of roof and seal.

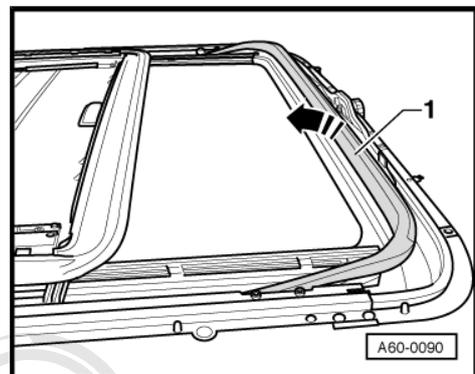
- To adjust, slacken off bolts -1- and move retaining brackets -2- in appropriate direction.



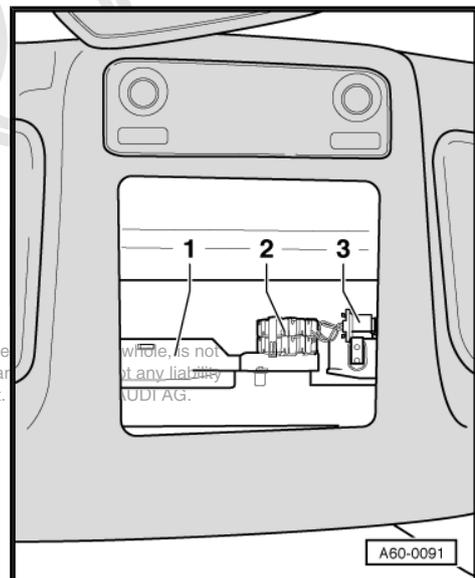
1.4 Removing and installing wind deflector motor

Removing:

- Open sunroof fully.
- Wind deflector -1- is raised.
- Switch off ignition.
- Remove wind deflector.



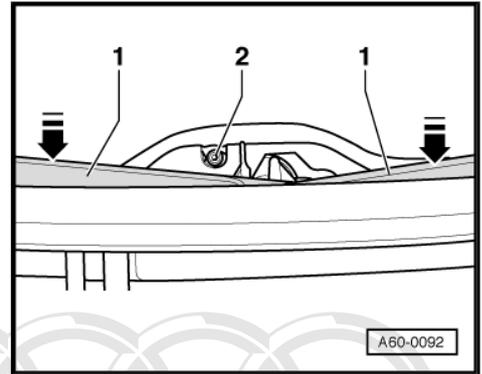
- Remove interior light.
- Unplug connector -3- for wind deflector motor -2-.



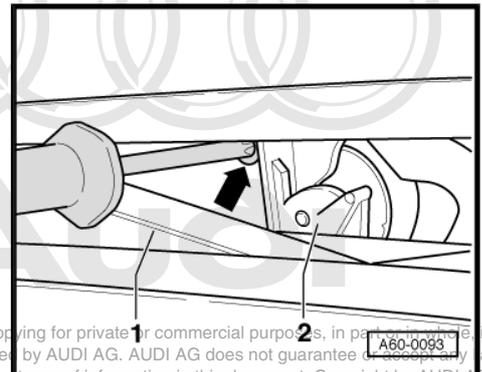
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- Press positioner -1- downwards in direction of arrow into sunroof until Torx bolt -2- becomes visible.

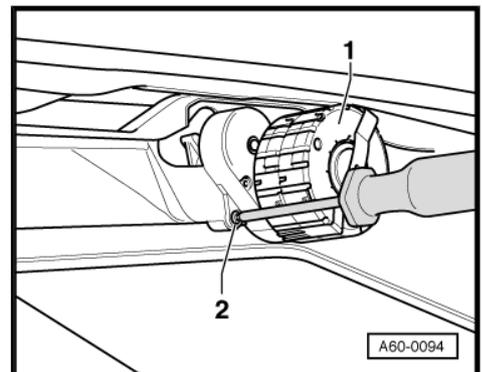


- Unscrew Torx bolt -arrow- -T8- from rear at wind deflector motor -2-.
- Positioner -1-



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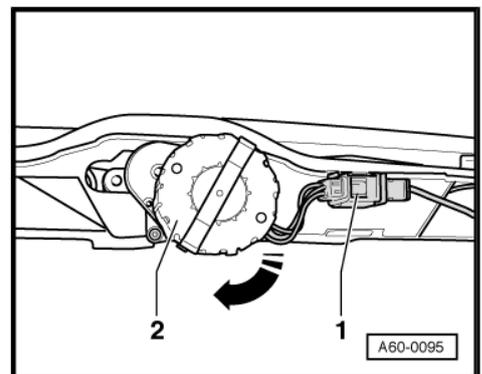
- Reach through opening for interior light and unscrew Torx bolt -2- from wind deflector motor -1- from front.



- Connector -1- unplugged
- Facing forwards, swivel down wind deflector motor by approx. 90°.
- Pull out motor to rear.

Installing:

- Guide motor through opening for light.



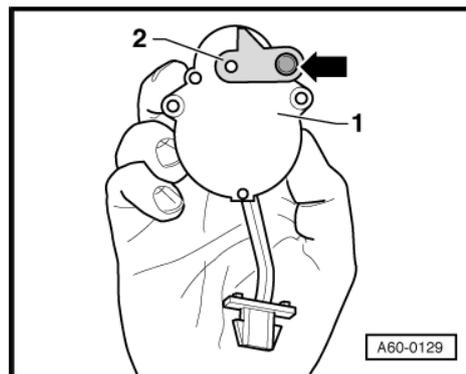


- Insert positioning lever -2- in opening in front part of frame and pin -arrow- in both elongated holes in positioner.
- Move motor to attachment position.
- Use both Torx bolts -T8- to secure motor.
- Plug motor in.
- Fit trim for light opening.



WARNING

Initialisation is required following installation of sunroof motor.



1.5 Initialisation procedure for wind deflector motor

- Switch on ignition.

Starting initialisation

- Turn sunroof switch to "Roof closed" position and wait until roof has closed.
- Pull switch down and wait until motor starts to make a slight clicking noise.
- This concludes the initialisation procedure.

Starting adaption



Note

Roof system adaption is required to ensure precise operation of roll-back function.

- Release switch and then immediately pull it down again.
- Sunroof adaption commences within 5 seconds.
- Switch must not be released at any time during adaption procedure.
- Perform entire adaption procedure.
- In this process, sunroof opens fully to rear and closes again and sunroof panel is raised and lowered.
- This completes system initialisation and adaption.
- Roll-back function is active and system ready for operation.

1.6 Removing and installing sliding/tilting sunroof motor

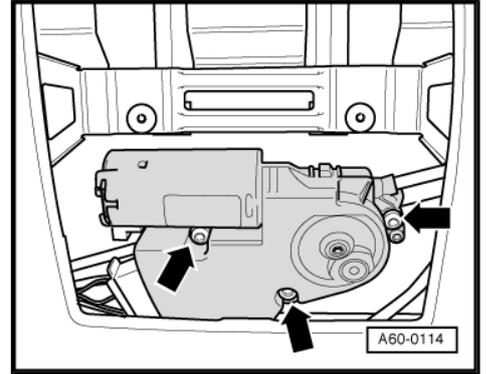


Note

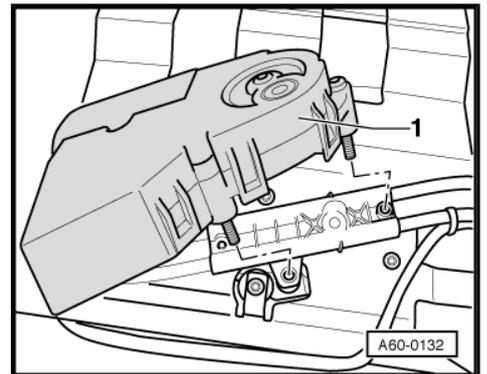
Motor is only to be removed and installed in roof closed position.

- Move roof to closed position.
- Remove rear interior light.

- Unscrew Torx bolts (T 25) -arrows-.



- Take motor -1- out of opening for light and unplug cable connectors.
- Initialisation and adaption are required following installation of new motor => [page 82](#) .



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1.7 Sliding/tilting sunroof panel - exploded view

1 - Sunroof panel

- Removing ⇒ [page 85](#)

! WARNING

Roof must not be electrically operated with panel removed.

If sunroof is moved forwards and becomes blocked, drive switches to reverse and sunroof is fully retracted under roof.

This may result in irreparable damage to mechanical components.

2 - Rain channel

- Not available as a separate replacement part

3 - Circlip

- Not available as a separate replacement part

4 - Washer

- Not available as a separate replacement part

5 - Washer

- Not available as a separate replacement part

6 - Pin

- Not available as a separate replacement part

7 - Tilting spring

- Not available as a separate replacement part

8 - Rain channel slide

- Not available as a separate replacement part

9 - Sliding headliner

- Removing and installing ⇒ [page 88](#) .

10 - Slide (front)

- Detach on one side when removing sliding headliner.

11 - Torx bolt

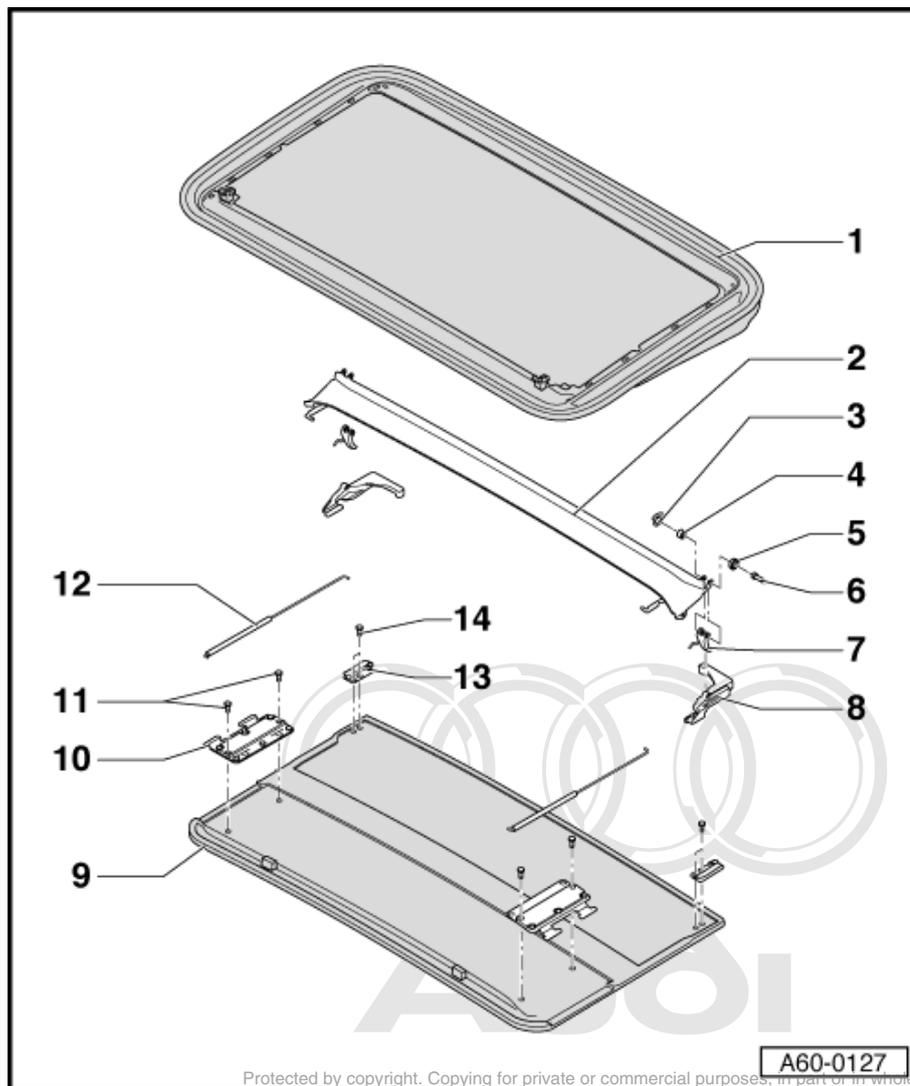
12 - Spring

- Disengage when removing sliding headliner.

13 - Slide (rear)

- Detach on one side when removing sliding headliner.

14 - Torx bolt



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1.8 Removing sliding/tilting sunroof panel



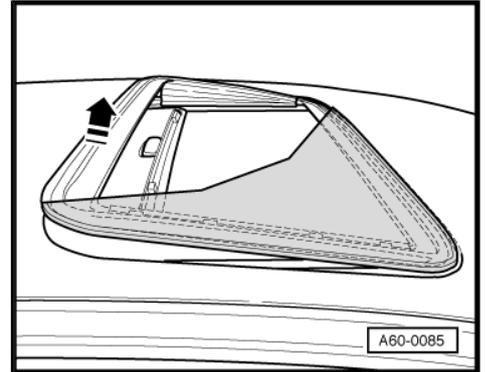
WARNING

Sunroof must not be electrically operated if panel is removed.

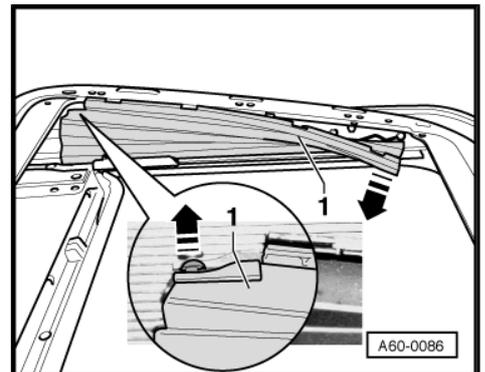
If sunroof is moved forwards and becomes blocked, drive switches to reverse and sunroof is fully retracted under roof.

This may result in irreparable damage to mechanical components.

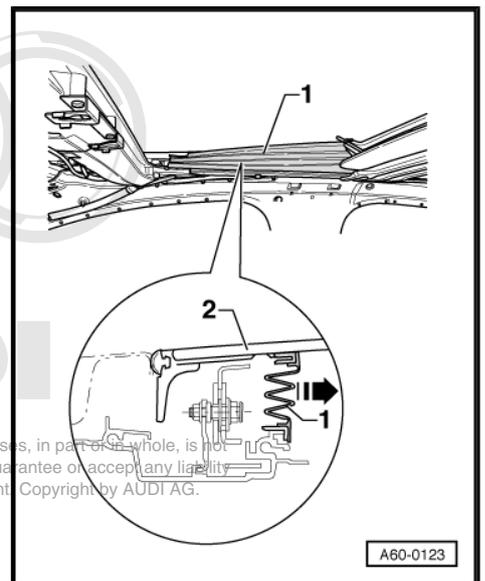
- Tilt sunroof in direction of arrow, as shown.
- Starting at front, detach trim -1- inwards from sunroof panel in direction of -arrow-.



- Slide locking pin to rear out of panel fastener.
- Pull trim downwards off panel.



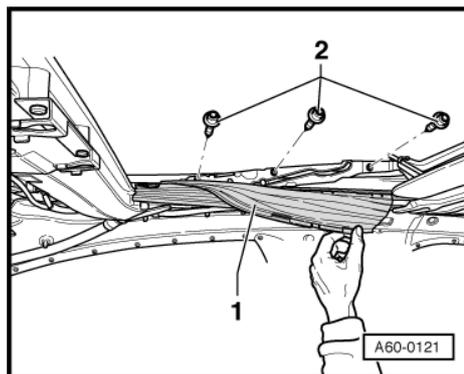
- Fully detach trim -1- inwards from sunroof panel -1- and fold aside downwards.



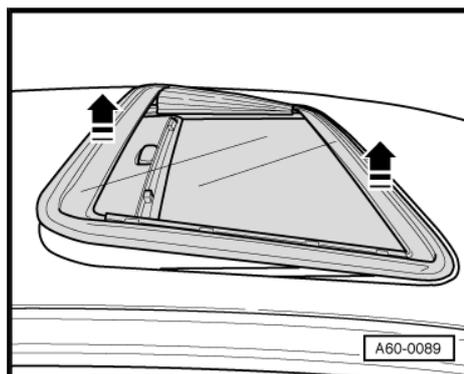
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- Unscrew Torx bolts -2- -T25- -arrows- at front and rear.
- Centre bolt should only be slackened off.



- Lift off sunroof panel.
- Install in reverse order of removal.
- Adjust panel => [page 86](#) .



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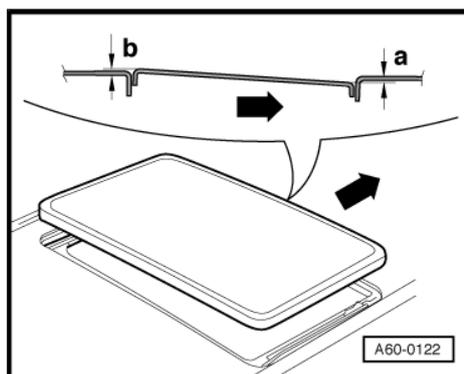
1.9 Adjusting panel



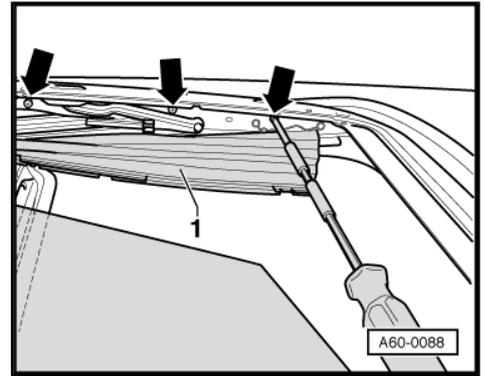
Note

- ◆ *Height adjustment is performed with sunroof in sliding position (i.e. panel is open but not tilted).*
- ◆ *Left and right-hand settings should be as symmetrical as possible in order to achieve optimum optical effect.*
- ◆ *Measurement points: Tangent lines at panel*
- ◆ *No point on panel should be higher at front or lower at rear than roof.*

- Starting at front, detach trim inwards.
- Fully detach trim inwards and fold aside downwards.
- Slacken off Torx bolts for securing panel.
- Centre panel by repeatedly raising and lowering in sunroof opening.
- Position front and rear of panel as shown.
- Close sunroof out of "Open" (not tilted) position.
- Measurement points: Tangent lines at sunroof panel
- Dimension -a- = 0-1 mm
- Dimension -b- = 0+1 mm
- Arrow = Direction of travel (front)

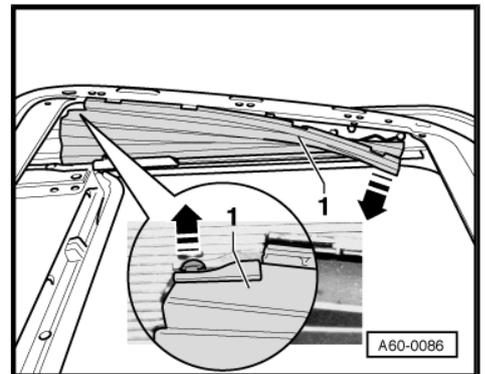


- Tighten Torx bolts to 4.5 Nm.
- Fit side trim.

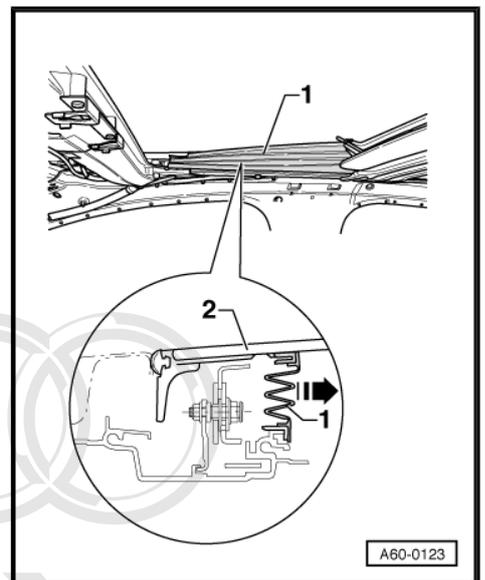


1.10 Renewing inner trim

- Tilt sunroof.
- Starting at front, detach trim -1- inwards from sunroof panel in direction of -arrow-.
- Slide locking pin to rear out of panel fastener.
- Pull trim downwards off panel.



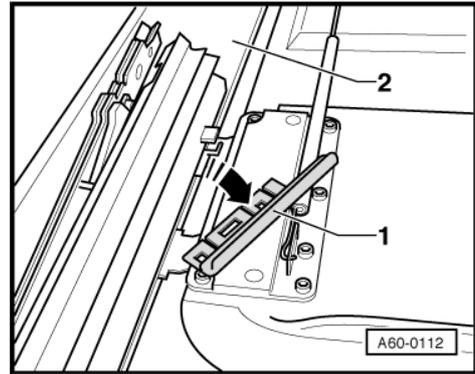
- Fully detach trim -1- inwards from sunroof panel -1- and fold aside downwards.



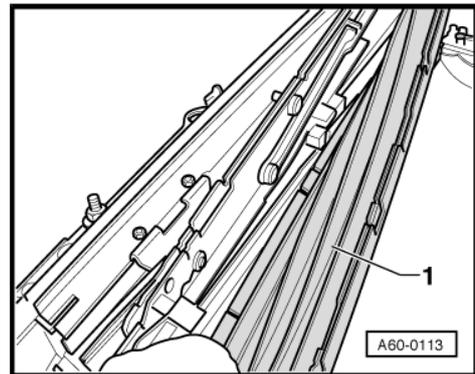
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- Unclip fastener -1- from guide rail -2- at side.
- During installation, retainer tab -arrow- must engage in opening in guide rail.



- Slide inner trim -1- forwards and pull it inwards out of guide rail.

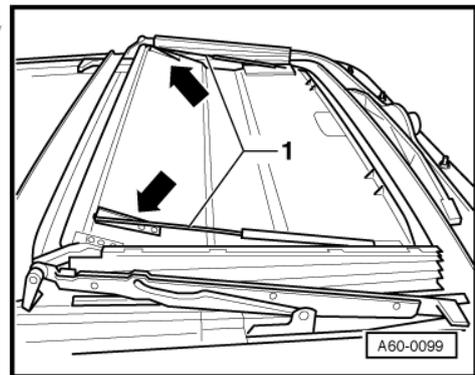


1.11 Removing and installing sliding headliner

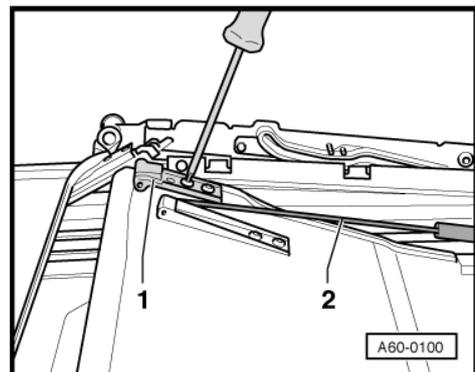
Glass panel

- Inner trim removed
- Panel removed
- Press up sliding headliner at rear as shown.

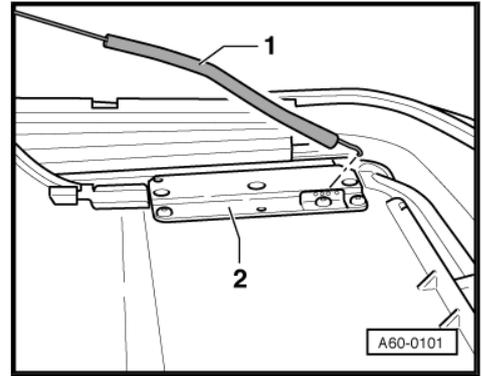
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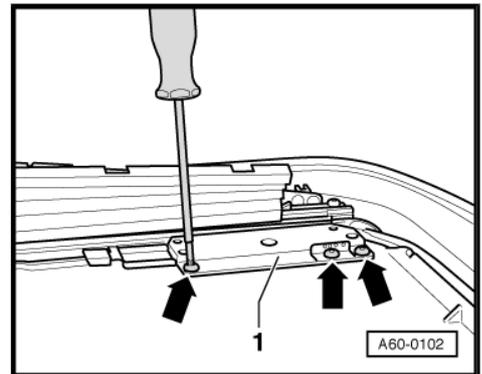
- Unscrew Torx bolts (T 10) from rear of slide housings -1- (left and right) and detach slide housing on both sides.
- Bend up sliding headliner slightly and disengage spring at rear.....



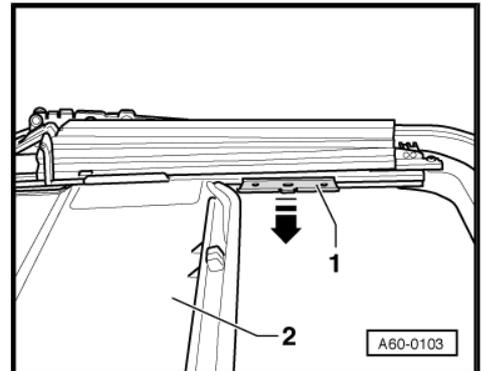
-and from front slide.



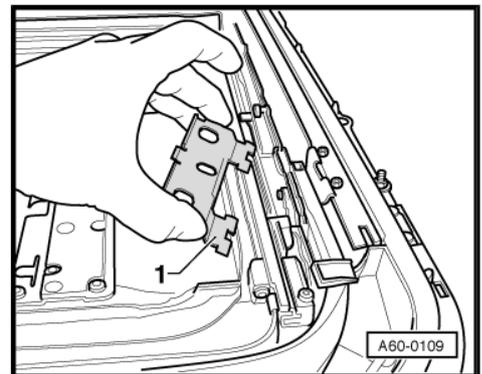
- Unscrew Torx bolts (T 20) -arrows- from one side of support bracket -1- only.
- Detach support bracket and remove stop underneath.



- Slide in sliding headliner -2- to rear.
 - Detach slide (front) -1- to side.
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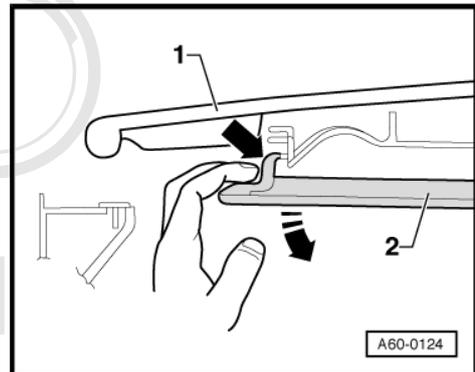
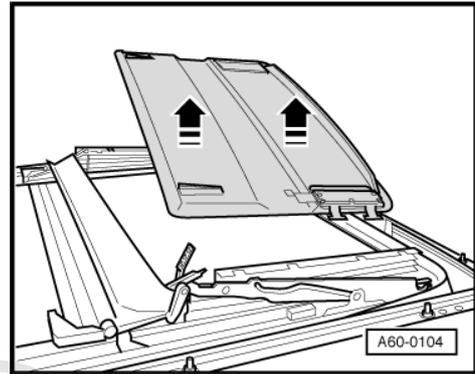
- Take slide (front) -1- out of roof opening.



- Lift headliner sideways out of sunroof.
- Assemble in reverse order.

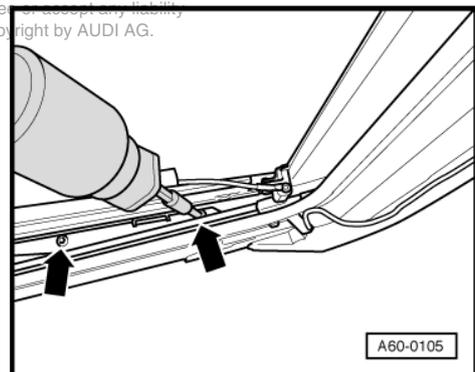
Solar panel

- Open roof, pull headliner downwards out of fastener -arrow- and slide it backwards into roof opening.

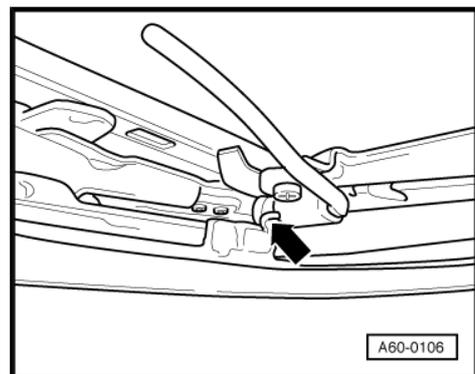


- Unscrew Torx bolts -arrows- at front and rear -T25-
- Centre bolt should only be slackened off.

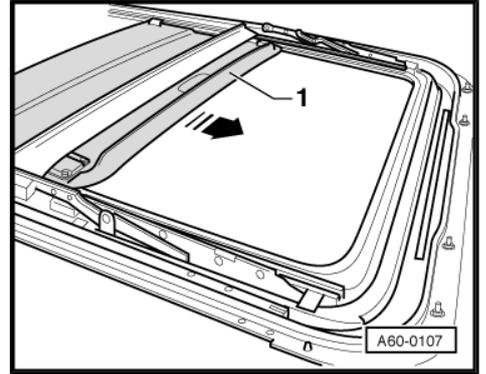
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- Pay attention to solar contacts -arrow- when lifting off.



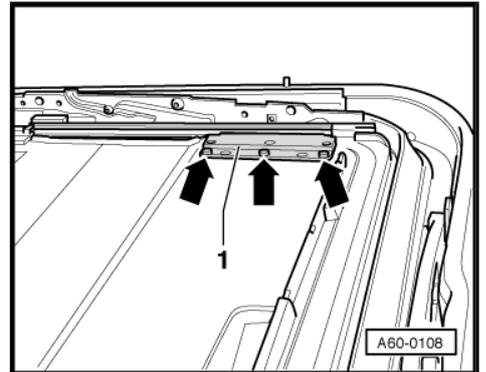
- Pull headliner -1- forwards.



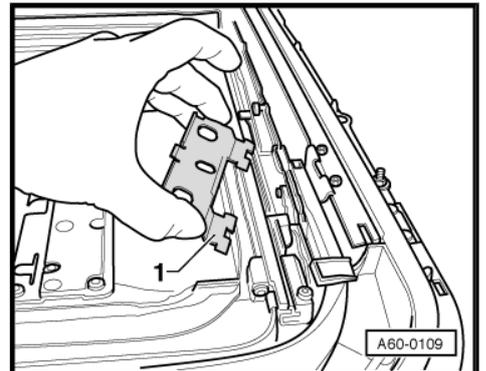
- Detach cover of front slide housing -1- on one side.



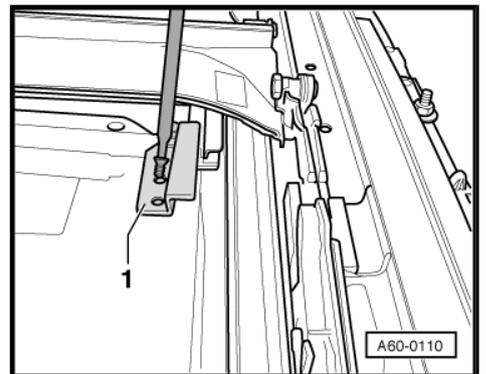
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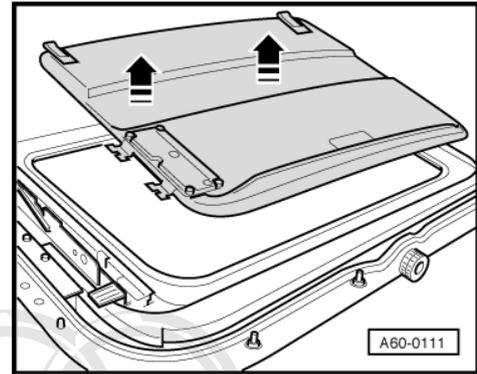
- Pull slide -1- sideways out of guide.



- Detach slide (rear) -1- on same side.



- Lift headliner sideways out of sunroof.



1.12 Renewing panel seal

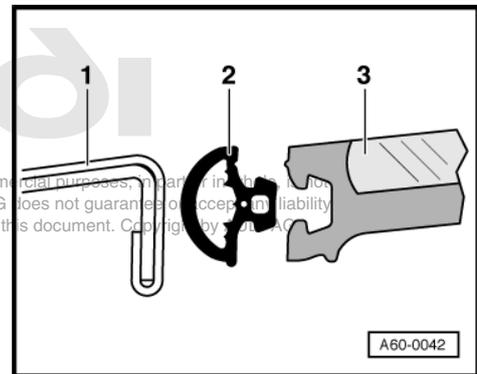
- Sunroof panel -3- removed.
- Pull seal -2- out of sunroof panel -3-.
- Starting in centre, press new seal into sunroof panel -3- at rear edge of panel.



Note

To facilitate installation, apply soap solution to seal and edge of panel.

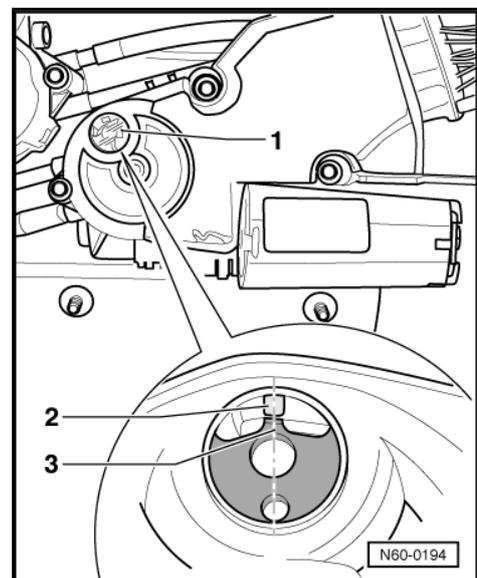
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1.13 Adjusting zero position (motor)

Drive removed, but wires still connected

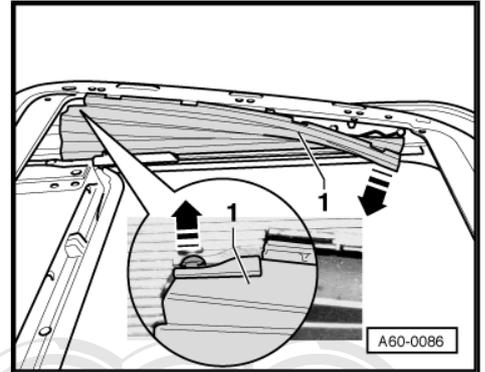
- Switch on ignition.
- Use rotary automatic preselection control to select "Roof closed".
- Drive automatically assumes zero position and is switched off.
- Switch off ignition.
- Inspection window is protected by a cover. Prise out cover -1-.
- Coloured mark -2- and projection -3- must be aligned in inspection window.
- Install drive in this position (zero position) with sunroof closed.



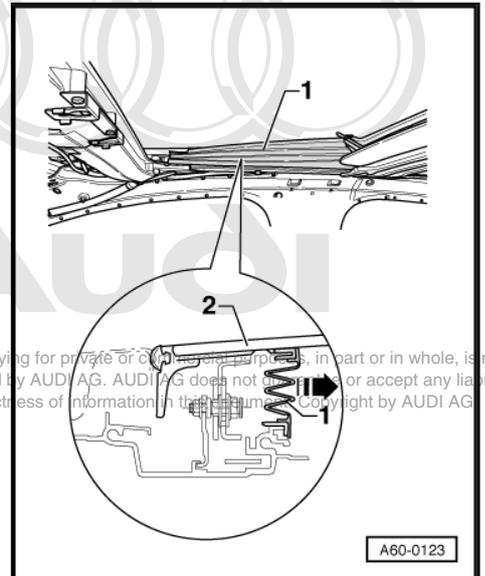
1.14 Checking and adjusting zero position (guide plate)

Glass panel

- Tilt sunroof.
- Starting at front, detach trim -1- inwards from sunroof panel in direction of -arrow-.
- Slide locking pin to rear out of panel fastener.
- Pull trim downwards off panel.



- Fully detach trim -1- inwards from sunroof panel -1- and fold aside downwards.



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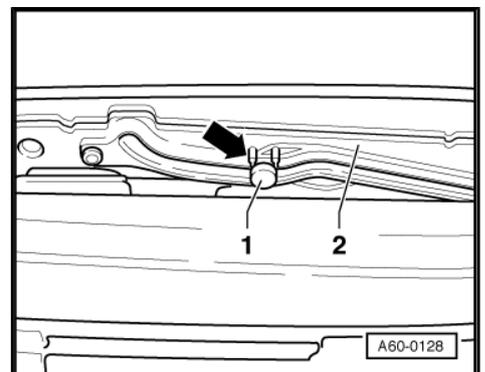
- If zero position is correct, guide pin -1- should be located between the two guide plate marks -arrow-.
- If necessary, remove panel and motor and then slide guide plates on both sides by hand into this position.



Note

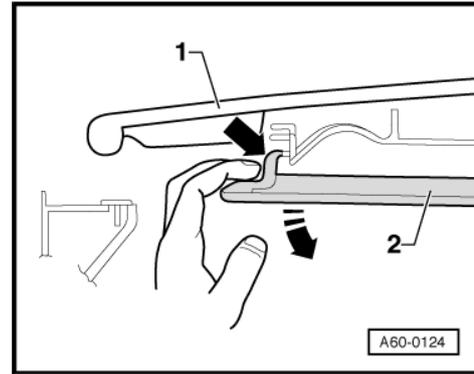
Only install panel in zero position.

Solar panel





- On vehicles with solar panel -1-, open roof, pull headliner downwards out of fastener -arrow- and slide it backwards into roof opening.



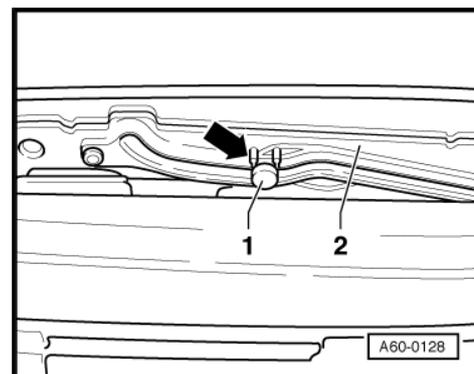
1.15 Checking and adjusting parallel setting



Note

Parallel setting can only be made in zero position and with drive removed.

- Only slide guide plates from front to rear.
- Guide pin -1- must be located between marks -arrow- on left and right guide plate.
- Re-install drive and solar panel.
 - Initialisation and adaption are required following installation of drive and panel.



1.16 Performing initialisation and adaption for sunroof

- Switch on ignition.

Starting initialisation

- Turn sunroof switch to "Roof closed" position and wait until roof has closed.
- Pull switch down and wait until wind deflector motor starts to make a slight clicking noise.
- This concludes the initialisation procedure.

Starting adaption



Note

Roof system adaption is required to ensure precise operation of roll-back function.

- Release switch and then immediately pull it down again.
- Sunroof adaption will start within 5 seconds.
- Switch must not be released at any time during adaption procedure.



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- Perform full adaption procedure.
- In this process, sunroof opens fully to rear and closes again and sunroof panel is raised and lowered.
- This completes system initialisation and adaption.
- Roll-back function is active and system ready for operation.



Audi

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2 Water drain hoses

2.1 Water drain hoses - overview

 **Note**

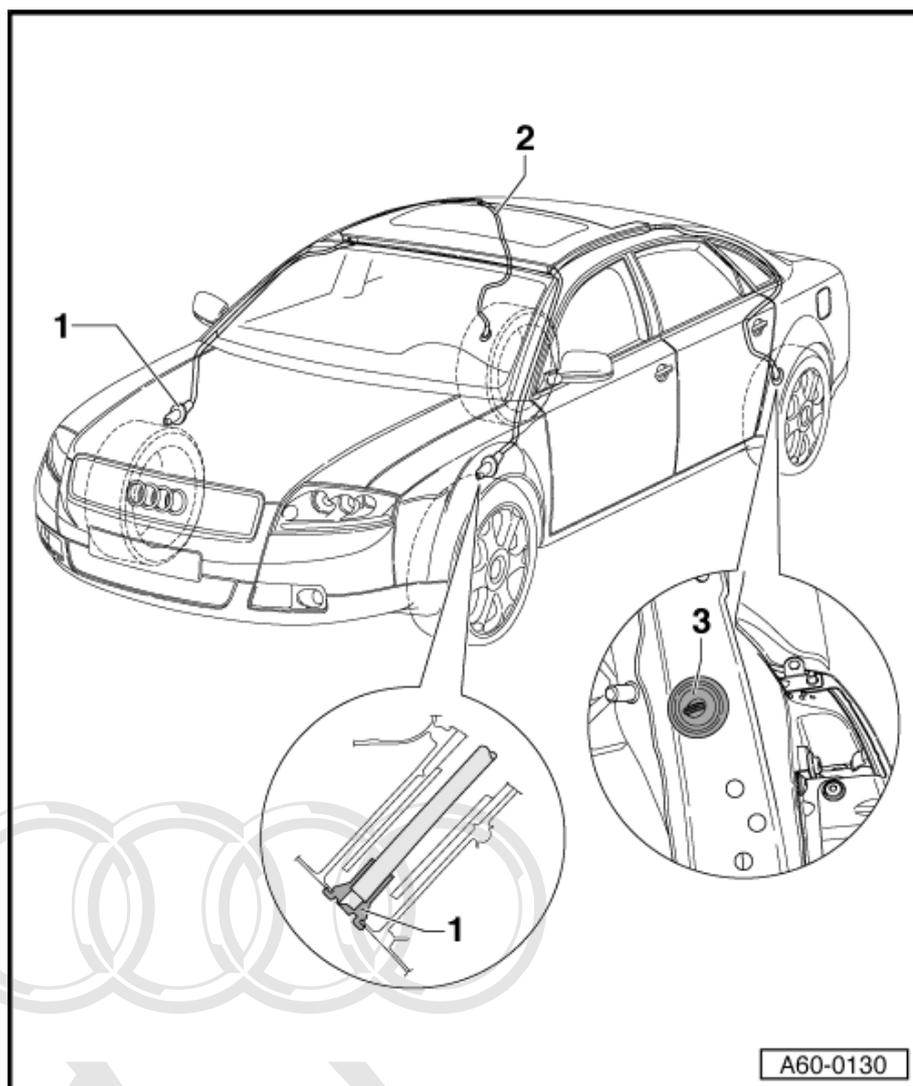
For cleaning it is advisable to make use of an improvised tool approx. 2300 mm long made from speedometer drive cable core.

1 - Water drain hose (front)

- Front water drain hoses -1- run through and end at outer -A- pillar.
- To clean, access hose from sunroof opening.

2 - Water drain hose (rear)

- Rear water drain hoses -2- run through -C- pillars and end in rear wheel housings.
- Cleaning is performed starting from lower end of hose.
- This involves removing rear wheel housing liner.



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2.2 Water drain hose (front)

1 - Water drain hose (front)

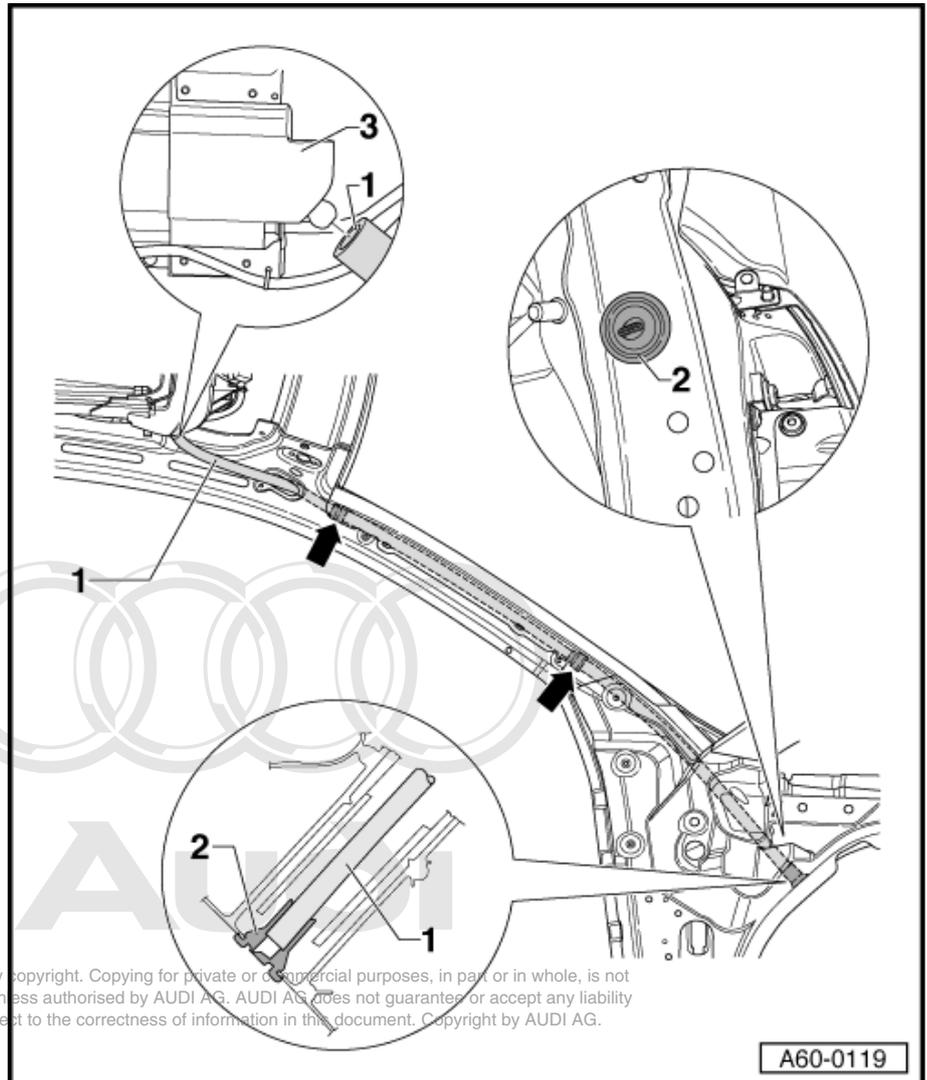
- ❑ When fitting, pull hose from underneath into -A- pillar.
- ❑ Slide upwards and pull out through opening in roof frame as shown.
- ❑ Following installation, secure new hose in position at top and bottom -arrows- using a 2-component foam which does not absorb moisture.

2 - Grommet

- ❑ Permanently attached to water drain hose and must be pressed into lower -A- pillar.

3 - Front end piece of sunroof for water drain

- ❑ When installing, attach hose with collar to end piece as shown.



63 – Bumpers

1 Front bumper

1.1 Front bumper cover - exploded view

Vehicles without single-frame grille

1 - Cover

- Removing ⇒ [page 102](#)
- When installing, fold back bottom centre section of cover in direction of arrow and secure with quick-release fasteners.

2 - Quick-release fasteners

- 3x

3 - Torx bolt

- Screw connection to intake manifold ⇒ [page 99](#)
- 5 Nm

4 - Torx bolt

- Screw connection to lock carrier
- 2 Nm

5 - Wheel spoiler

- Removing ⇒ [page 107](#)

6 - Guide

- Removing ⇒ [page 106](#)

7 - Torx bolt

- 1 Nm

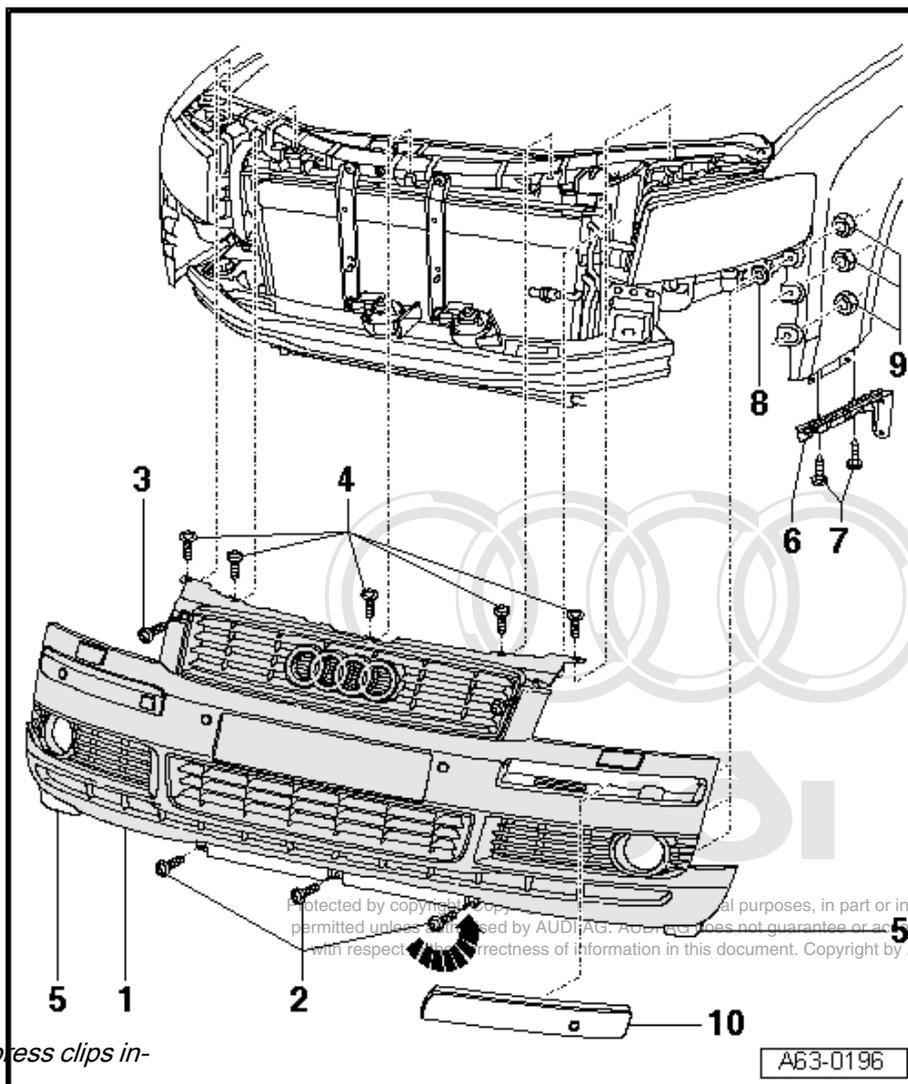
8 - Centring grommet

- Fitted over studs



Note

Before fitting bumper, press clips into wing.



9 - Nut with washer

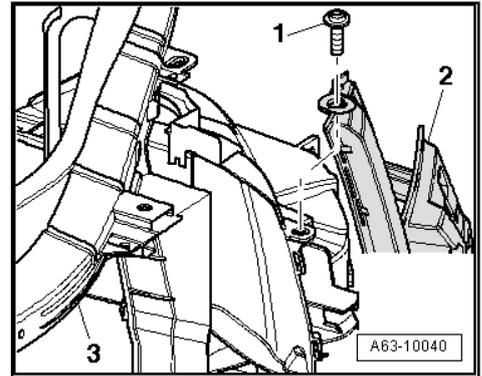
- 4 Nm

10 - Bumper guard

- To provide protection, mask cover with fabric adhesive strip above and below bumper guard prior to removal.
- Unclip at fasteners at top and bottom and detach to front from bumper.

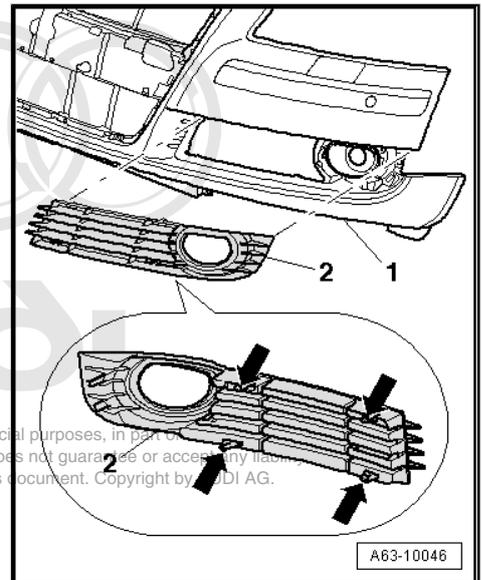
Intake manifold attachment point

- Use bolt -1- to attach (5 Nm) cover for bumper -2- to intake manifold.



Removing and installing left/right air grille

- To remove, release fasteners -arrows- and pull grille -2- to front out of cover -1-.



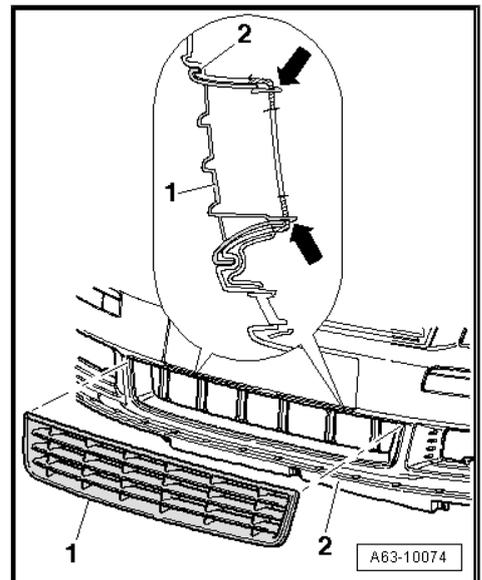
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Removing and installing centre air grille

- To remove, release fasteners -arrows- and pull grille -1- to front out of cover -2-.

Note

On vehicles without single-frame grille, centre air grille must be removed before adjusting ACC sensor.

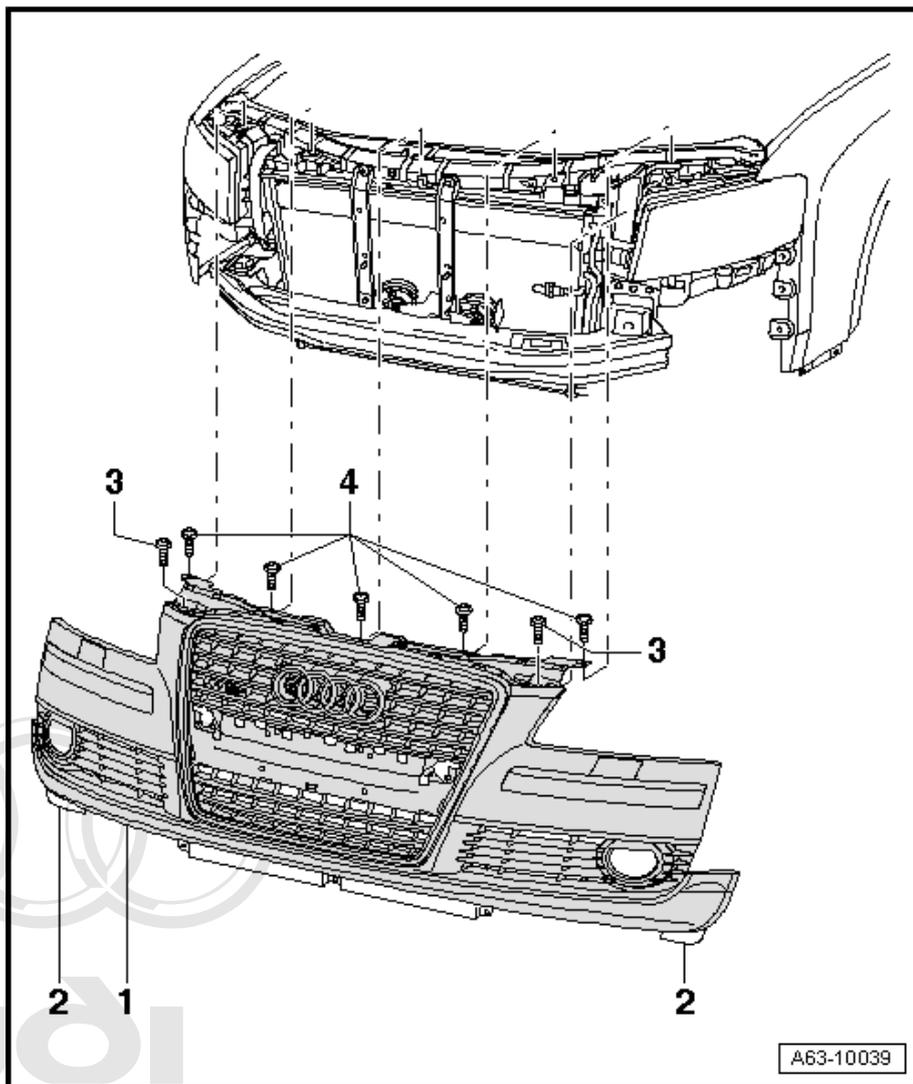


Vehicles with single-frame grille

Note

When renewing the cover on "S 8" models with vehicle identification no. up to 021081, a template must first be positioned on the wings => [page 11](#).

- 1 - Cover
- 2 - Wheel spoiler
 - Removing => [page 107](#)
- 3 - Torx bolt
 - Screw connection to intake manifold
 - 5 Nm
- 4 - Torx bolt
 - Screw connection to lock carrier
 - 2 Nm



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Air intake grille on vehicles with single-frame grille

1 - Radiator grille

- For vehicles with ACC
- Bumper cover removed
- To remove, unscrew bolts from reverse side
 => [page 101](#)

2 - Cover

- Only fitted on vehicles with ACC

3 - Number plate holder

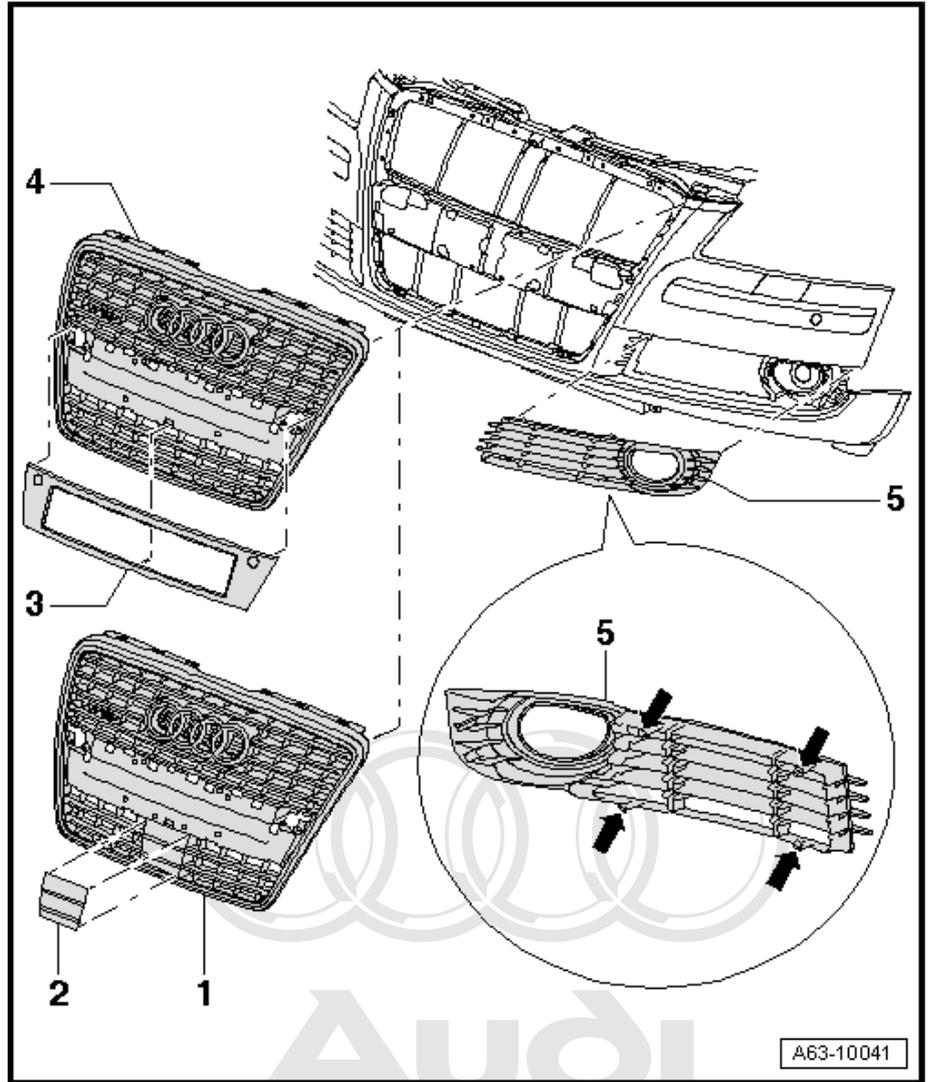
- Removing => [page 102](#)

4 - Radiator grille

- Vehicles without ACC
- Bumper cover removed
- To remove, unscrew bolts from reverse side
 => [page 101](#)

5 - Air grille

- To remove, release fasteners -arrows- and pull grille to front out of bumper cover.

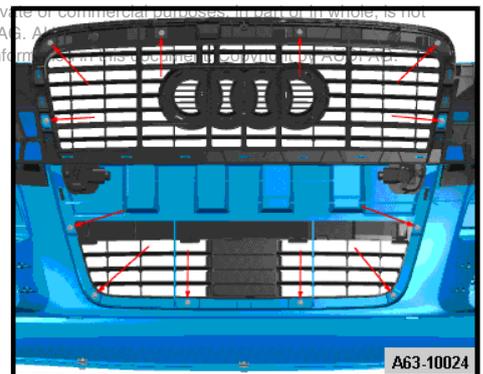


A63-10041

Removing radiator grille

- Bumper cover removed
- Unscrew all bolts (12x) -arrows- and take radiator grille out of cover.
- When installing, tighten bolts to 1 Nm.

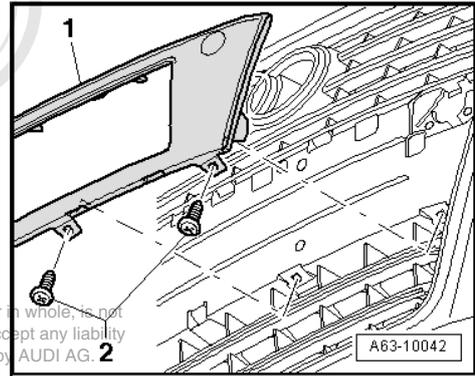
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A63-10024

Removing number plate holder

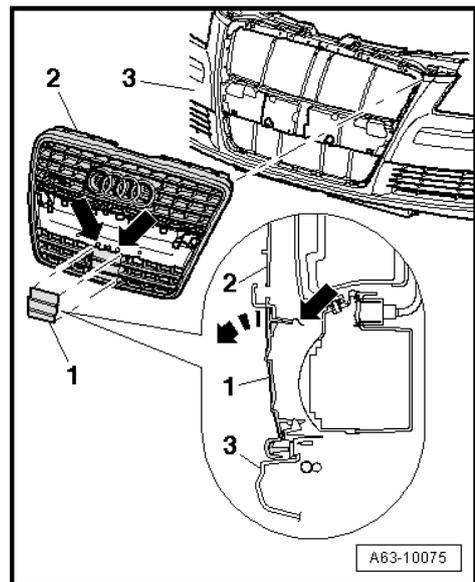
- To remove, unscrew bolts -2- and pull number plate holder -1- out of radiator grille (downwards at an angle).



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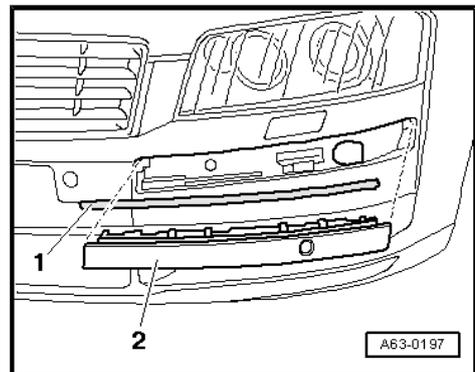
Removing and installing cover for ACC

- Number plate holder removed
- Removal does not involve taking out radiator grille.
- Insert screwdriver through both holes at radiator grille -arrows- and release retaining springs -arrow- at cover.
- Swivel top of cover in -direction of arrow- to front out of radiator grille.
- When installing, fit bottom of cover on domes and then engage fully in radiator grille (top).
- Re-install number plate holder.



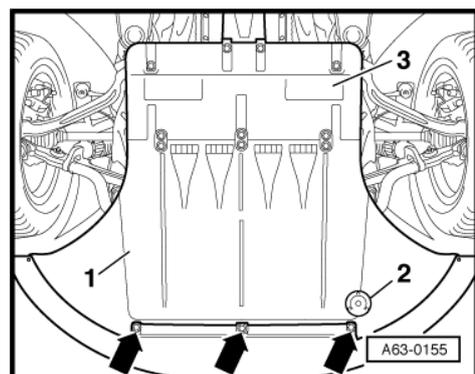
Removing bumper guard

- Prior to removal, mask bumper cover above and below bumper guard with fabric adhesive strip to prevent paintwork damage.
- Working inwards, gradually release fasteners over bumper guard -2-.
- Press trim strip -1- sideways towards bumper guard and detach trim strip.

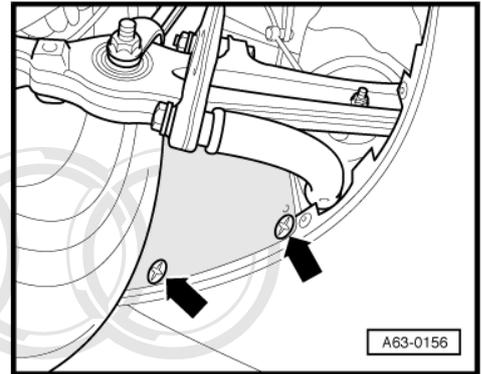


1.2 Removing bumper cover

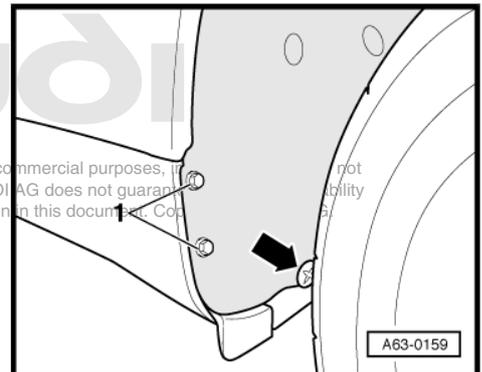
- Detach quick-release fasteners -arrows- from lower noise insulation -1- at front.



- Open quick-release fasteners -arrows- on left and right at bottom of wheel housing liners.

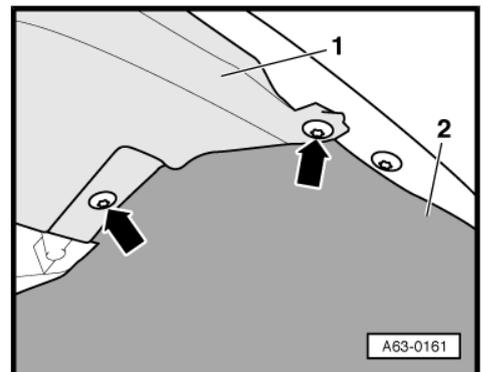


- Unscrew hexagon bolts -1- at bottom of wheel housing liners.
- Quick-release fasteners -arrow- already opened



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- Unscrew both bolts -arrows- from front wheel housing liner.
- Rear wheel housing liner -2- need not be removed.



- Unscrew upper bolt -arrow- from front wheel housing liner.

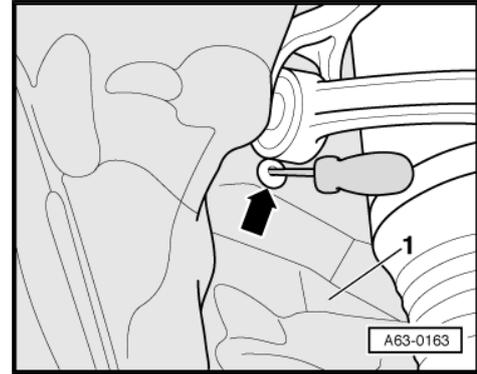


Note

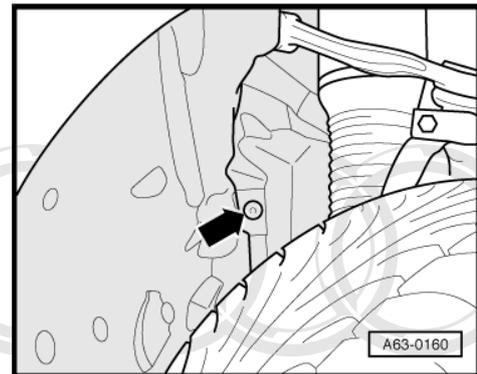
- ◆ *Only press in locking pins at wheel housing liners approx. 5 mm (do not press out).*
- ◆ *This releases locking pin, which can then be pulled out.*
- ◆ *During installation, locking pin is pushed back and fastener can be re-used.*



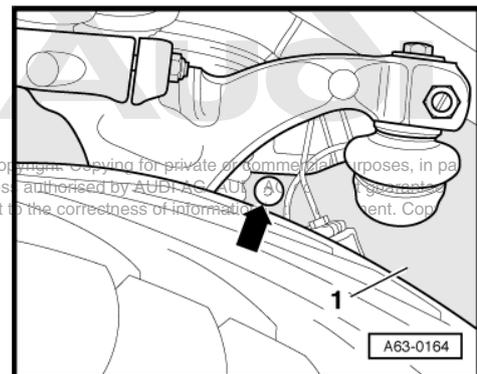
- Use screwdriver to press locking pins of fasteners -arrow- at front wheel housing liner approx. 5 mm into fastener.
- Pull out fastener.



- Follow same procedure for fastener at top

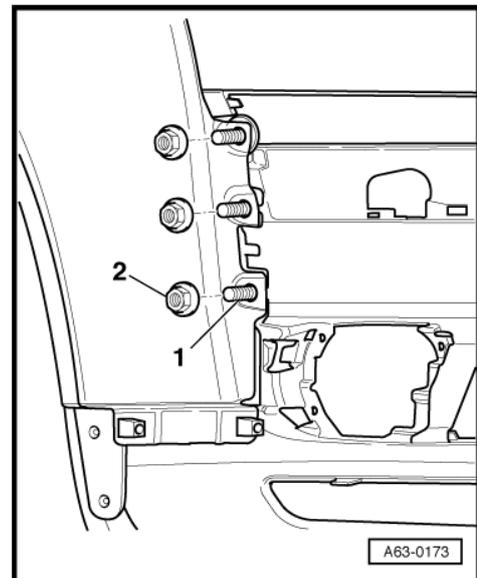


- and rear of front wheel housing liner.
- Press aside wheel housing liner at front to gain access to nuts for securing bumper cover.

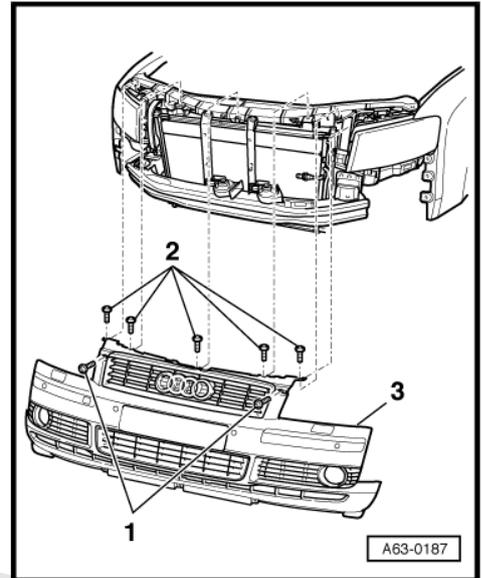


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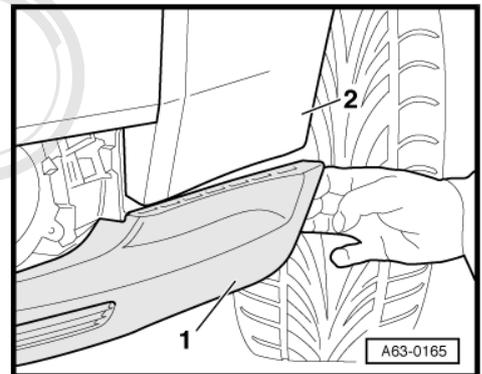
- Unscrew nuts -2- from studs -1- of bumper cover on both sides.



- Unscrew upper bolts -2- from cover -3-.
- Proceed in the same manner with both front bolts -1-.



- Pull cover -1- out of guide at bottom of wing as shown.
- Detach cover slightly to front and disconnect pipes for headlight washer system as well as all wires.
- Completely detach bumper cover.



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1.3 Attaching cover to wing

1 - Hexagon nut

- 5 Nm

2 - Wing

3 - Guide

- During installation, guide pins must engage in holes at bottom of wing.

4 - Bolts with washers

5 - Cover

- Clip into guide on left and right of wing.
- Attach to wing with hexagon nuts -4-.

6 - Centring grommet

- 2x fitted over studs at top left and right prior to assembly

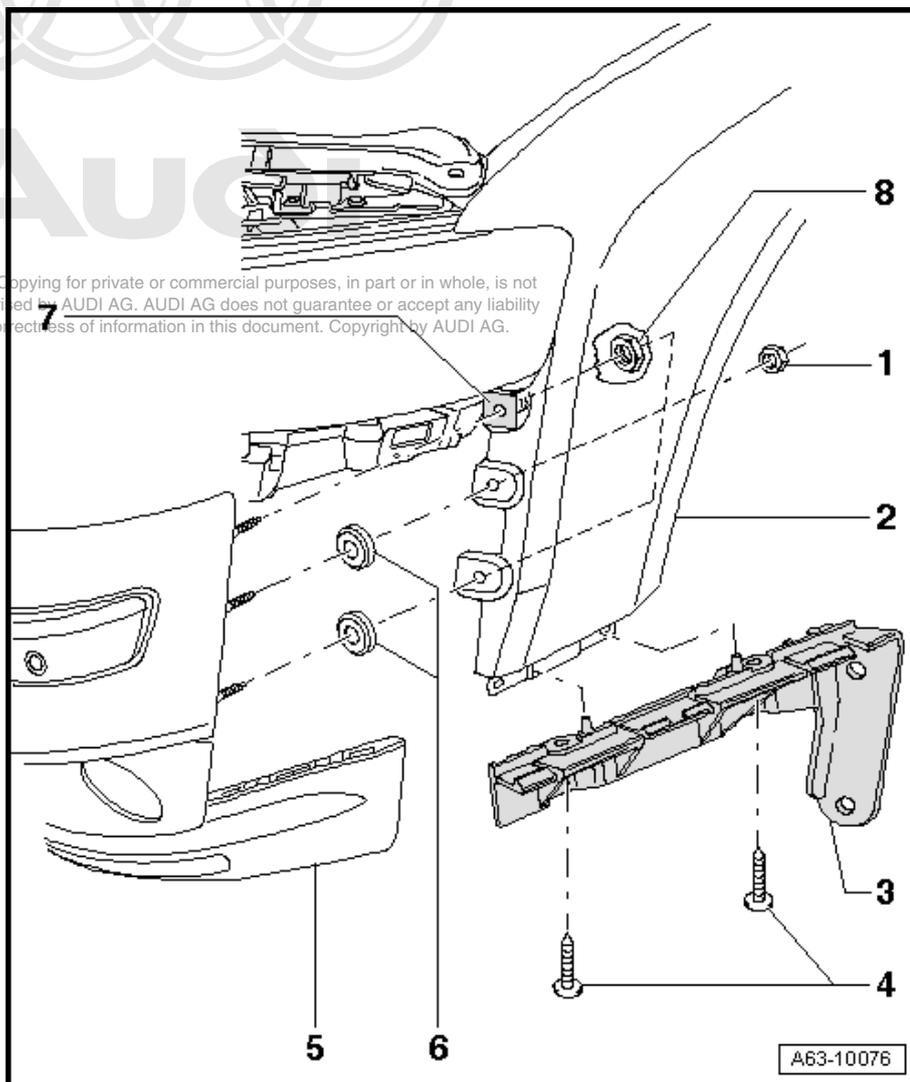
7 - Banjo bolt

- For attaching lock carrier to wing ⇒ [page 107](#)

8 - Hexagon nut

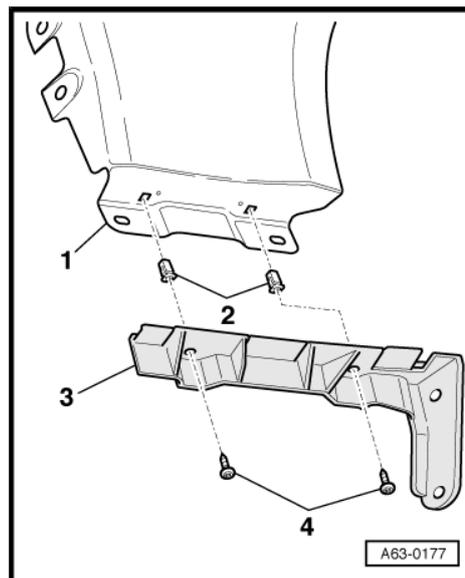
- 5 Nm
- Do not unscrew to remove cover -5-.

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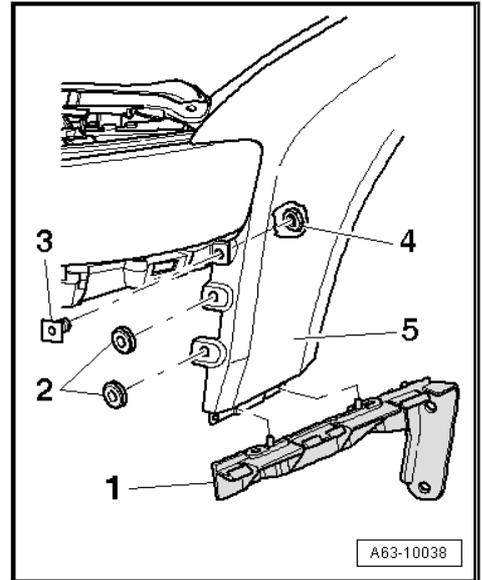
Installing guide

- Press in clips -2- from underneath into wing -1-.
- Insert guide -3- with guide pins in wing and secure with bolts with washers -4- (tightening torque 1.5 Nm).



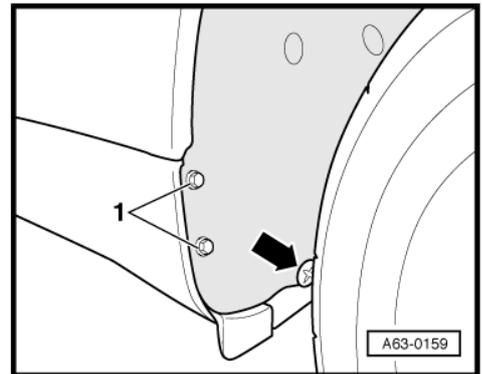
Installing lock carrier/wing

- Insert banjo bolt -3- through lock carrier and wing -5- and tighten hexagon nut -4- to 5 Nm.
- Fit grommets -2- over studs of cover.
- Bumper cover must engage at side of guide -1-.

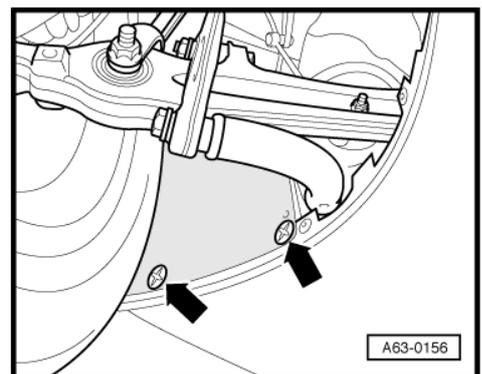


1.4 Removing wheel spoiler

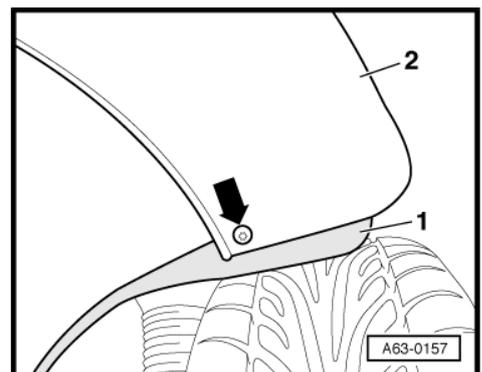
- Unscrew bolts -1- from wheel housing liner.



- Open quick-release fasteners -arrows- and pull wheel housing liner slightly to rear.
- Unscrew bolt for securing wheel spoiler from inside of wheel housing liner.



- Unscrew bolt -arrow- on underside of bumper cover (at outer edge) and detach wheel spoiler.



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1.5 Removing and installing bumper (front)

1 - Torx bolts

- 2 Nm

2 - Bumper

- Bumper cover removed
- Unscrew bolt with washer -5- (left and right).
- Unscrew Torx bolts -1-.
- Only slacken off upper Torx bolts of brace -7-.
- Slide braces aside and pull bumper forwards slightly out of brackets -9-.
- Unplug all connectors and completely detach bumper.

3 - Bolt with washer

- 23 Nm
- When unscrewing/ screwing in, provide support at nut -10- with open-end spanner.

4 - Multi-point head bolt

- 30 Nm
- 4x on either side

5 - Lock washer

- 2x at each bracket
- Must be removed to detach bracket -9-.

6 - Hexagon nut

- 23 Nm
- Provide support with open-ended spanner when tightening bolt -5-.

7 - Torx bolt

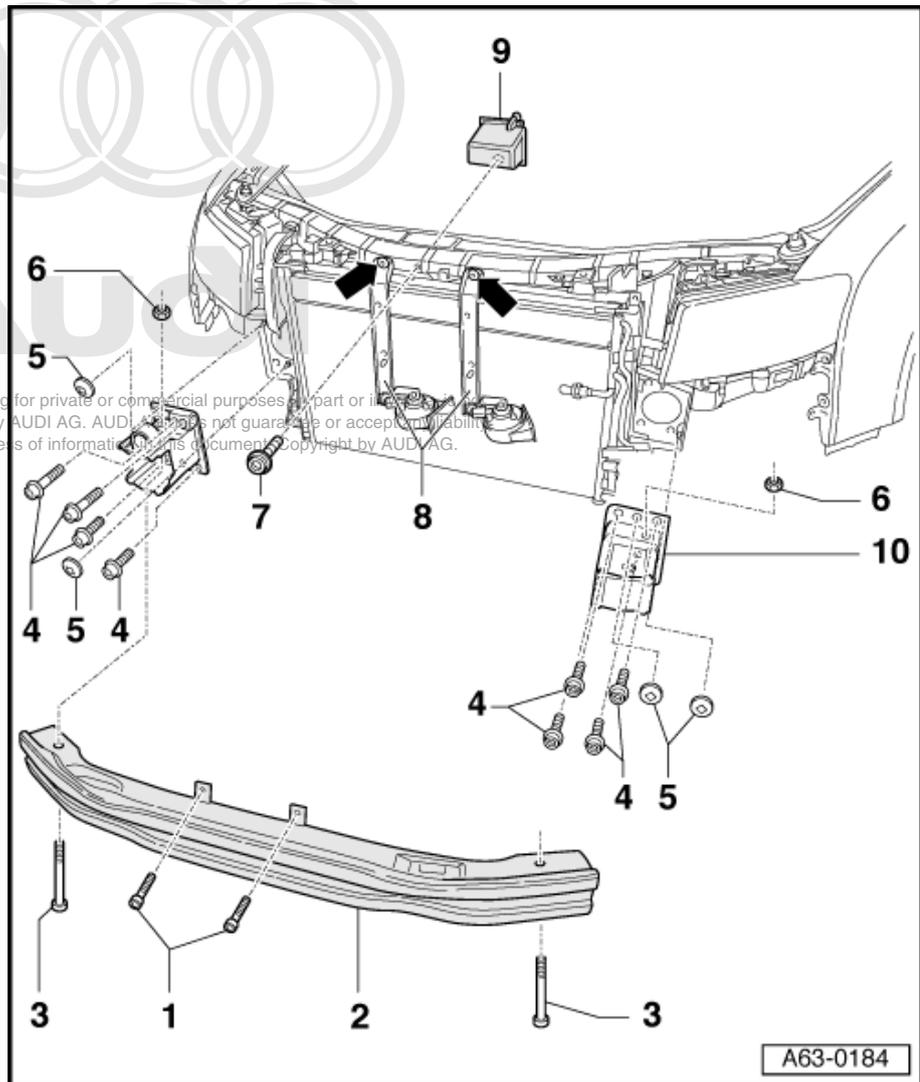
- 23 Nm

8 - Braces

9 - Bracket for arrester

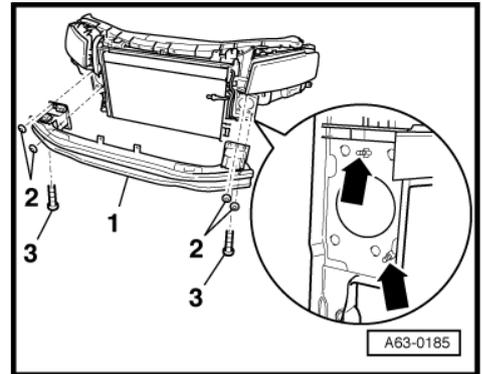
10 - Bracket for bumper

- Detach before removing bumper.
- To remove, unscrew bolts -3-, remove lock washers -4- and detach bracket.



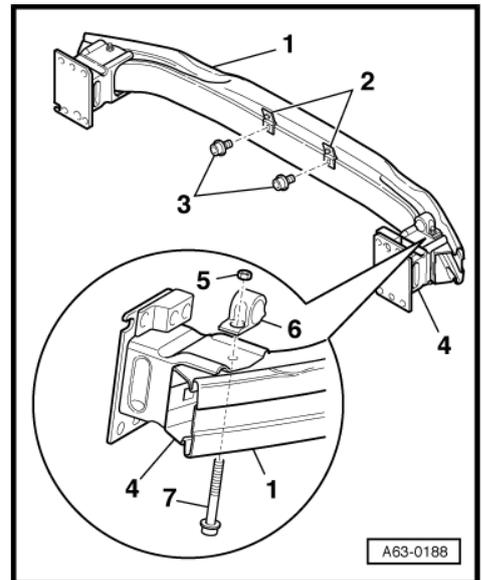
1.6 Removing and installing bumper bracket

- Unscrew hexagon bolt -3-.
- Remove lock washers -2- from retaining pins -arrows-.
- Pull bumper -1- forwards slightly and detach bracket to front over retaining pins.
- When installing, tighten bolts -3- to 23 Nm.



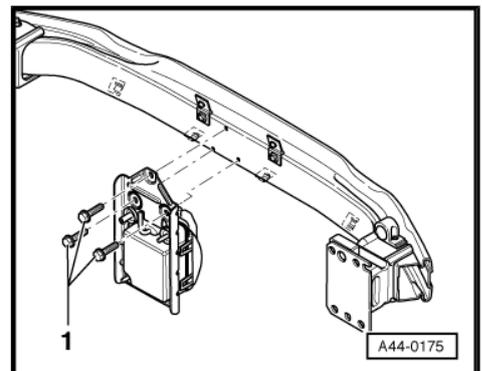
Removing reinforcing brace holder

- Bumper cover removed
- Bumper -1- need not be removed.
- Unscrew bolts -3- and detach reinforcing brace holder -2-.
- Bracket for bumper -4-
- To remove towing eye mounting -6-, unscrew bolt with washer -7- from nut -5-.
- When installing, tighten bolts to specified torque.
- Towing eye mounting is only fitted on right-hand side.



Removing sensor for ACC

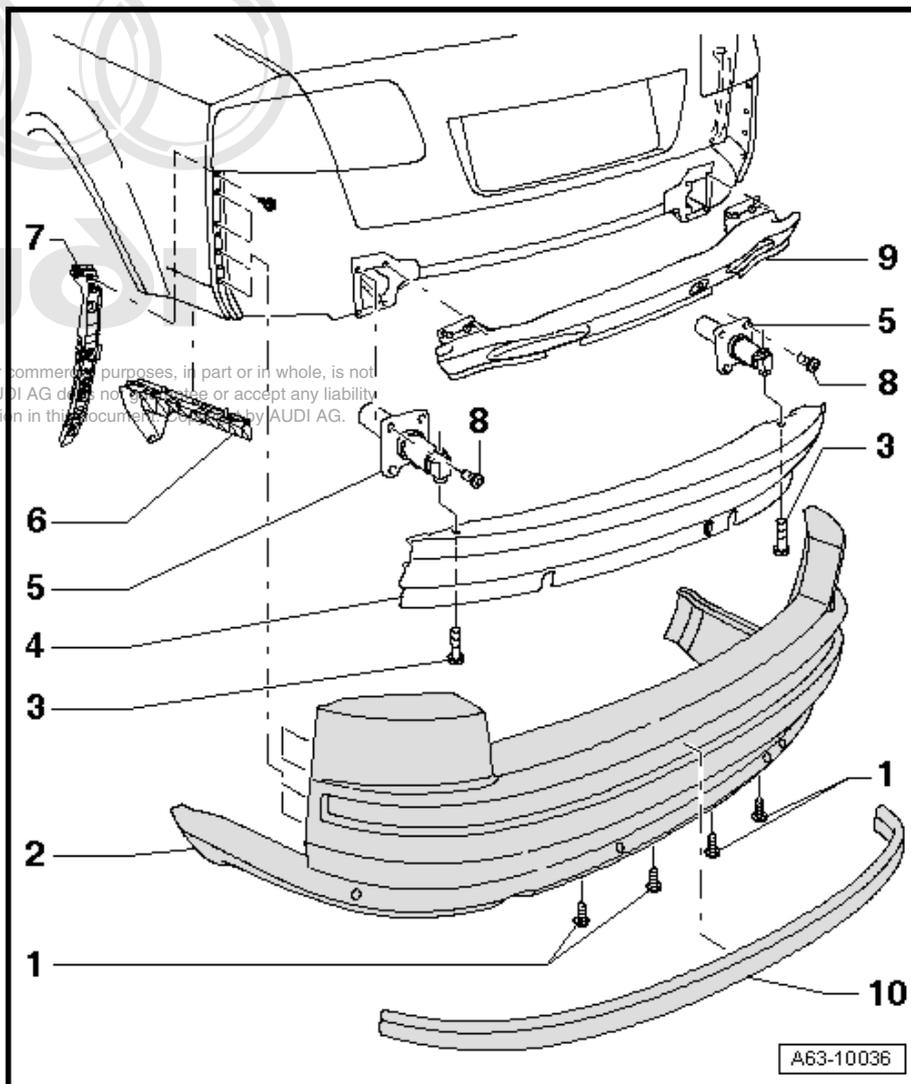
- The radar sensor is located behind the bumper cover.
- Detach front bumper cover.
 - Unscrew hexagon bolts -1-.
 - Detach sensor and unplug connector.
 - When installing, tighten hexagon bolts to 8 Nm.



2 Rear bumper

2.1 Rear bumper cover - exploded view

- 1 - Bolt with washer
 - 2 Nm
- 2 - Cover
 - Removing ⇒ [page 116](#)
- 3 - Bolt with washer
 - 23 Nm
- 4 - Bumper
 - Country-specific version
- 5 - Impact damper
 - Country-specific version
- 6 - Guide
 - Removing ⇒ [page 119](#)
- 7 - Fastener
 - Function ⇒ [page 114](#)
 - Guide pins of cover are locked in fastener.
- 8 - Multi-point head bolt
 - 30 Nm
- 9 - Bumper
 - Removing ⇒ [page 118](#)
- 10 - Bumper guard
 - Bumper removed
 - To guard against paintwork damage, mask cover with fabric adhesive strip above and below bumper guard prior to removal.
 - Removing ⇒ [page 112](#)



Screw connection for zero joint

1 - Side panel

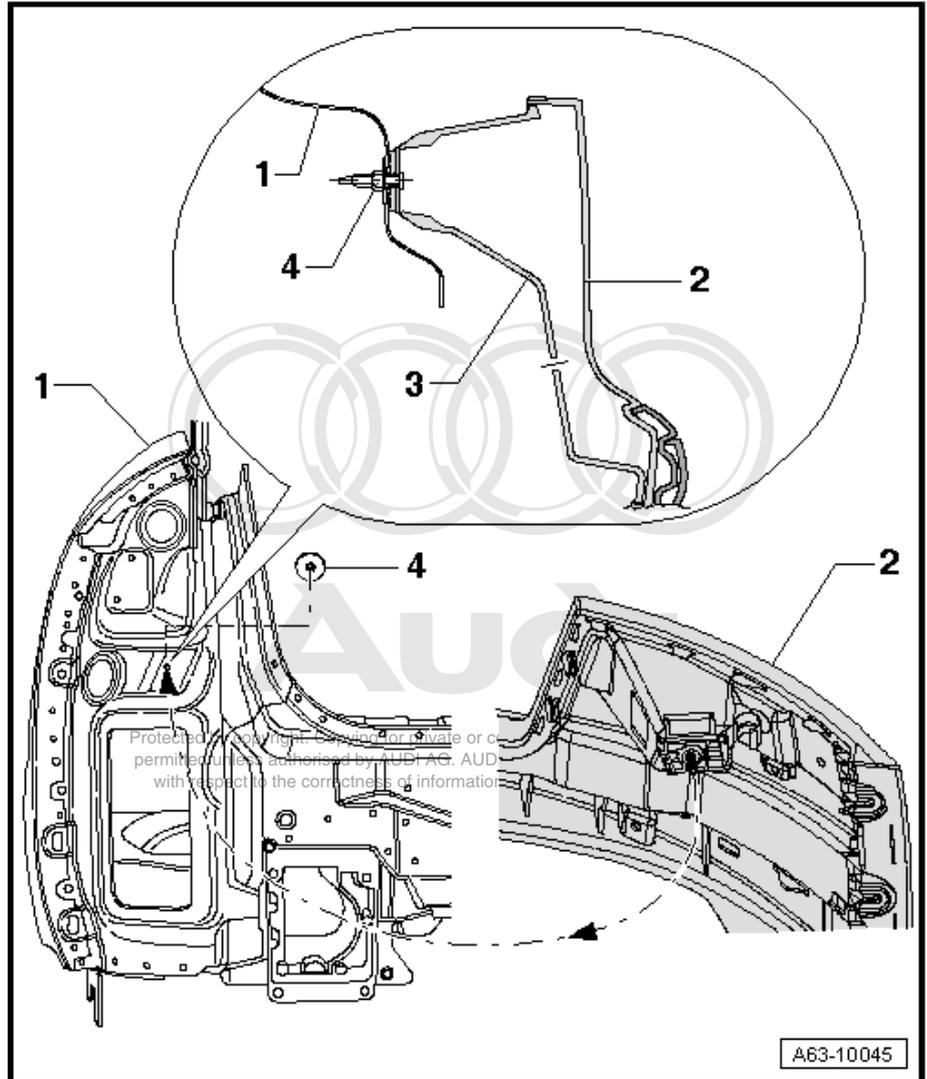
2 - Bumper cover

3 - End plate for cover

- ❑ Not available as a separate replacement part

4 - Hexagon nut

- ❑ Tighten hexagon nuts to 4 Nm after fitting and securing cover -2-.



Rear bumper trim strip



1 - Self-tapping screw

- 2 Nm

2 - Seal for rear lid

3 - Speed nut

- Attached to trim strip on left and right

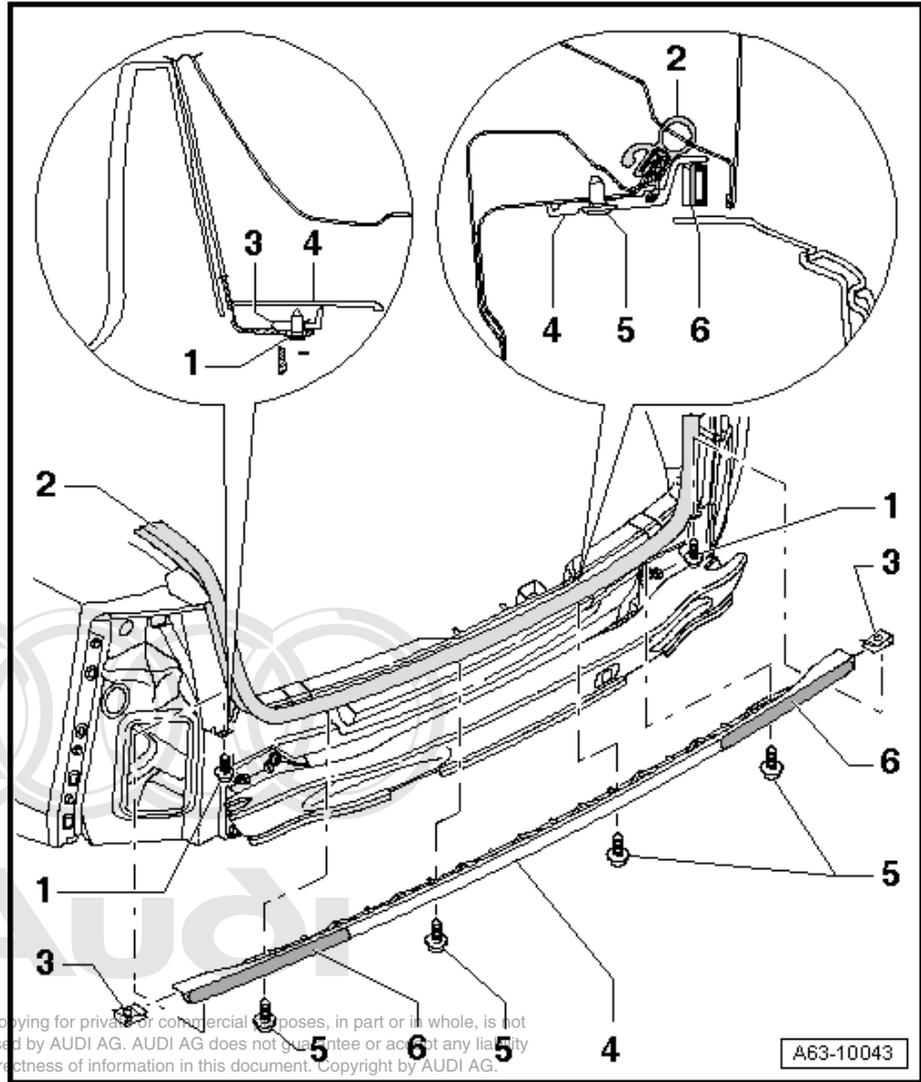
4 - Trim strip

- Bumper cover removed
- To remove, unscrew bolts -3- and bolts -5- and pull out trim strip beneath seal -2-.

5 - Bolt

- Self-tapping
- 6 Nm

6 - Reflector

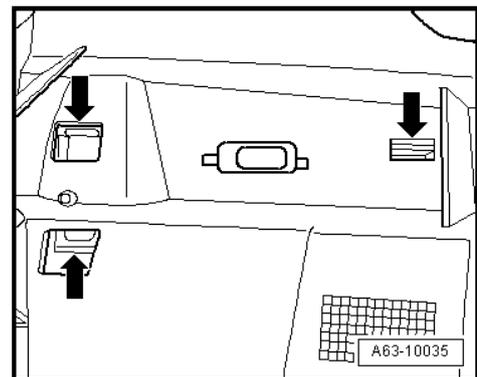


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A63-10043

Removing bumper guard

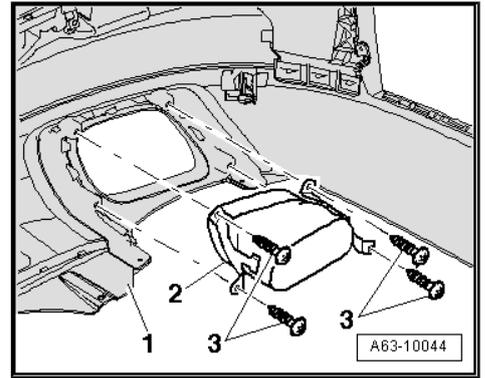
- Detach bumper.
- Working inwards, release fasteners -arrows- and gradually detach bumper guard from cover.



A63-10035

Trim for exhaust pipe (12-cylinder)

- Cover removed
- To remove, unscrew bolts -3- and detach trim panel -2- inwards from cover.
- Tighten bolts to 2 Nm when installing.



2.2 Removing and installing support piece for rear bumper



Note

The support piece is country-specific and is not fitted on all vehicles.

1 - Impact damper

2 - Multi-point head bolt

- 30 Nm

3 - Hexagon bolt

- 23 Nm

4 - Cross member

5 - Support piece

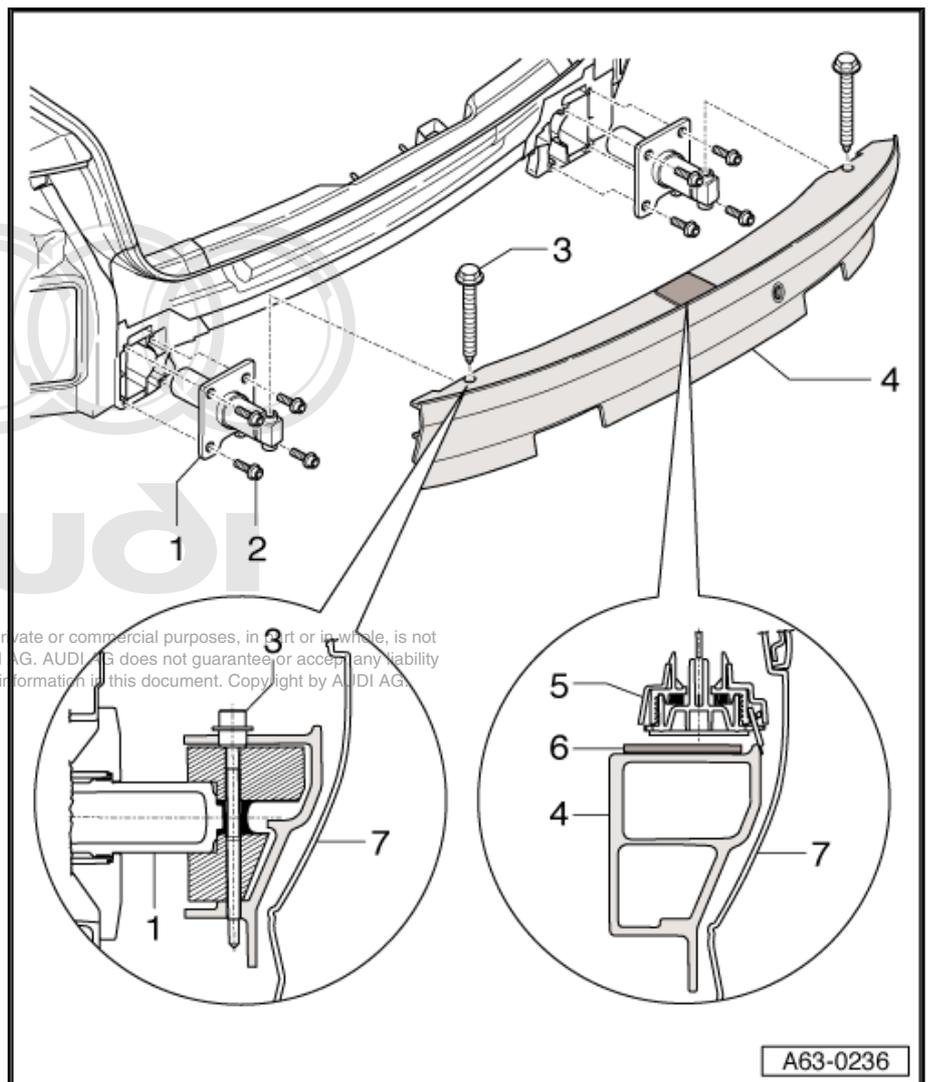
- Clipped into bumper cover
- Renew when installing new bumper cover.
- Do not release until bumper cover has been completely installed.
- Releasing support piece
⇒ [page 114](#)

6 - Plastic pad

- Fixed in position with double-sided adhesive strip

7 - Bumper cover

- Removing and installing
⇒ [page 110](#)





Releasing support piece



WARNING

Never release support piece following removal, as this could cause injury.

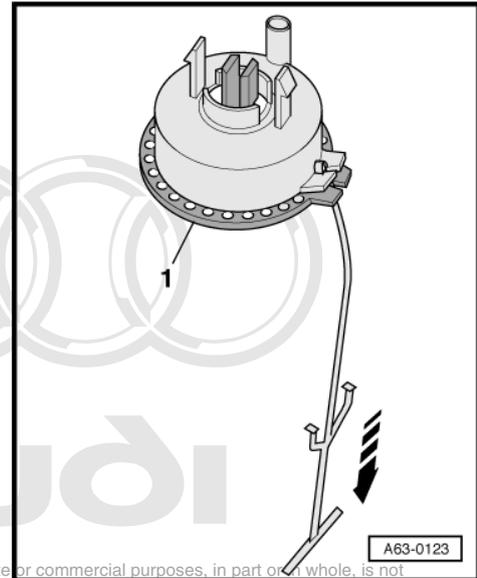
Old support piece can be left in position if old bumper cover is re-used.

- If bumper cover is renewed, new support piece -1- must be clipped into bumper cover from underneath.
- After bumper cover has been fully installed, release support piece by pulling off release tab in direction of -arrow-.

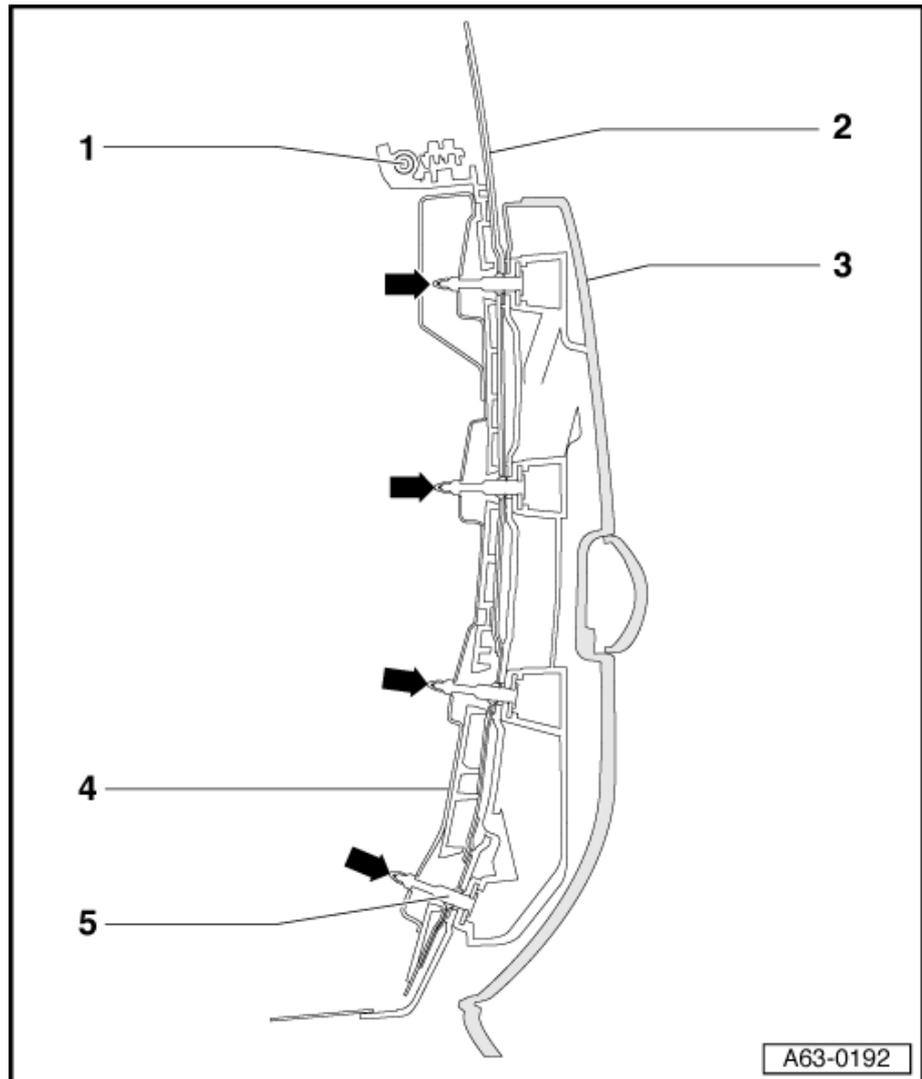


Note

Detaching the release tab slackens off the support piece and the bumper cover is supported by the cross member.



2.3 Fastening strip for rear bumper cover



i Note

- ◆ Observe direction of rotation of worm gear.
- ◆ Release slides by turning clockwise on right side and anti-clockwise on left side.
- ◆ After unfastening bumper cover at attachment points as necessary, release slide by way of worm gear using a 6 mm Allen key.
- ◆ Several turns are required for this.
- ◆ Retaining strip -4- is thus moved downwards and provides access to retaining pins -5- in elongated holes (keyhole profile) of cover.
- ◆ Cover can then be detached to rear.

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1 - Worm gear

- Tighten to 1 Nm.
- 6 mm Allen key

! WARNING

Important: Always ensure compliance with torque of 1 Nm on installation.

Worm gear of fastening strip will otherwise be damaged, thus considerably impeding bumper removal.

2 - Rear body panel

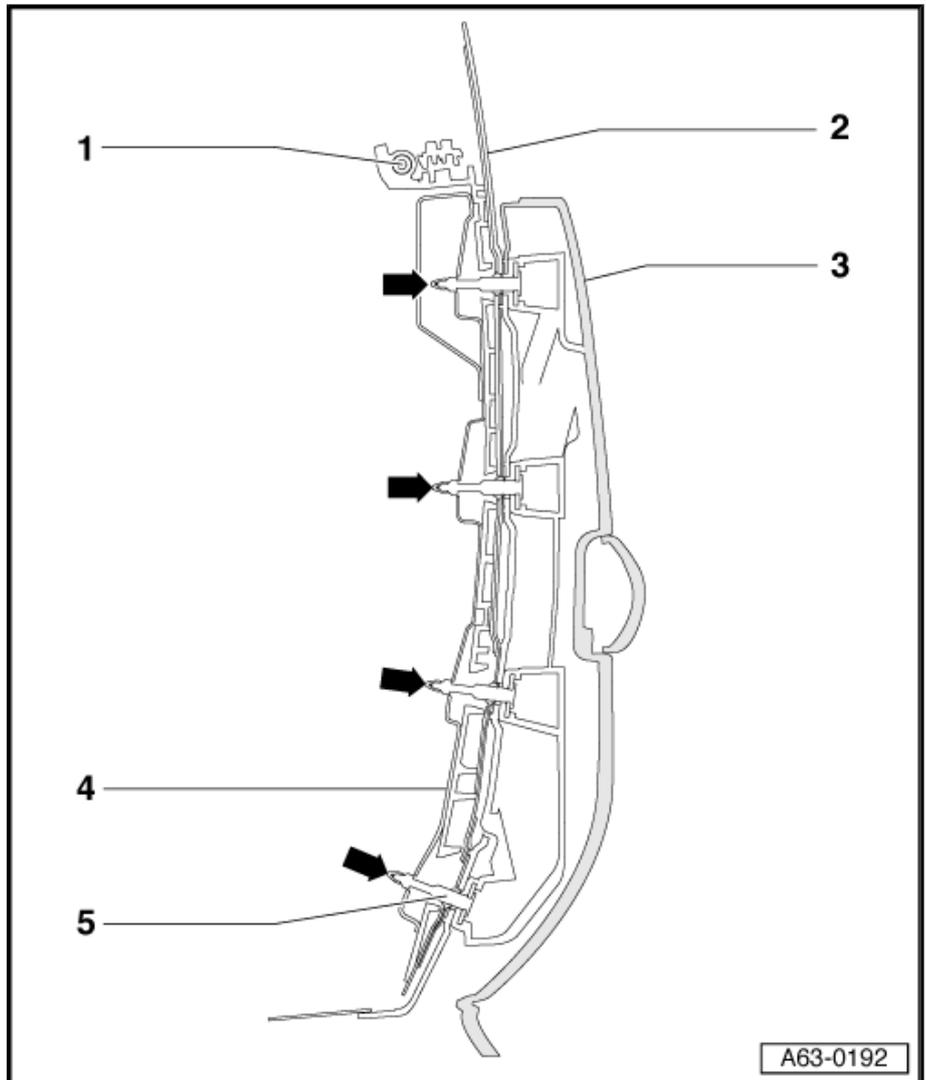
3 - Rear bumper cover

4 - Slide for fastening strip

- Release slide via worm gear (turn clockwise on right side and anti-clockwise on left side).

5 - Retaining pins for bumper cover

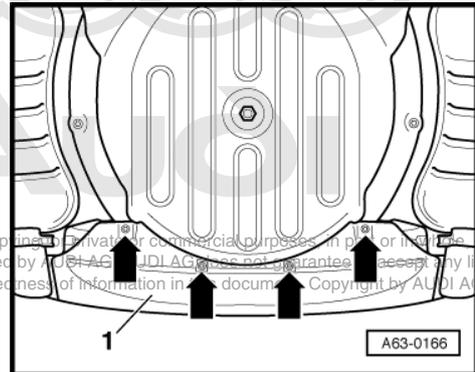
- Slide is used to release or lock retaining pins during installation.



A63-0192

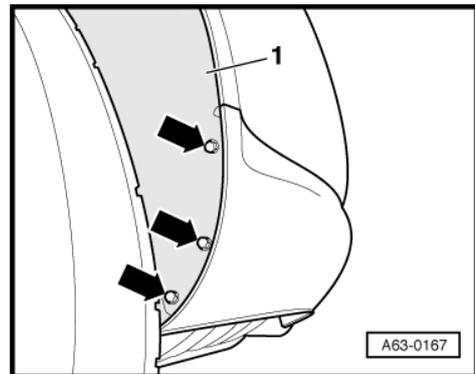
2.4 Removing bumper cover

- Unscrew bolts from underside of cover -arrows-.

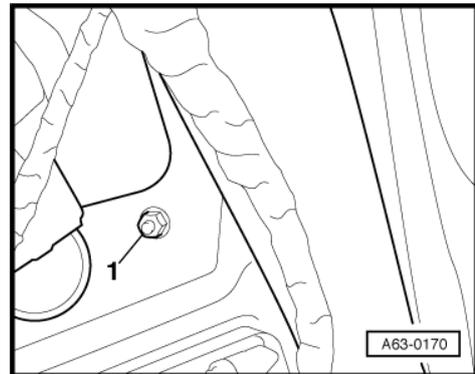


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- Unscrew hexagon bolts -arrows- from wheel housing liner -1-.



- A further nut -1- on each side has to be unscrewed on inside of side panel.
- Release fastening strip in side panels (left and right) => [page 114](#) and pull cover slightly off vehicle to rear.
- Right fastening strip is released by turning clockwise; left strip by turning anti-clockwise.
- Unplug all connectors to electrical components and detach cover.



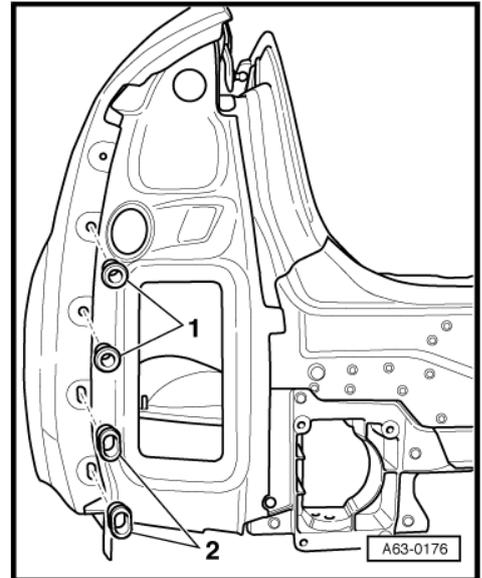
WARNING

Always ensure compliance with torque of 1 Nm on installation.

Worm gear of fastening strip will otherwise be damaged, thus considerably impeding bumper removal.

Cover grommets

- Before fitting cover, check that round grommets -1- and oval grommets -2- have been pressed into side panel as shown.



2.5 Removing fastening strip

1 - Fastening strip

- Function ⇒ [page 114](#)
- Cover removed
- Unscrew bolts -3- and take strip out of side panel from inside vehicle.

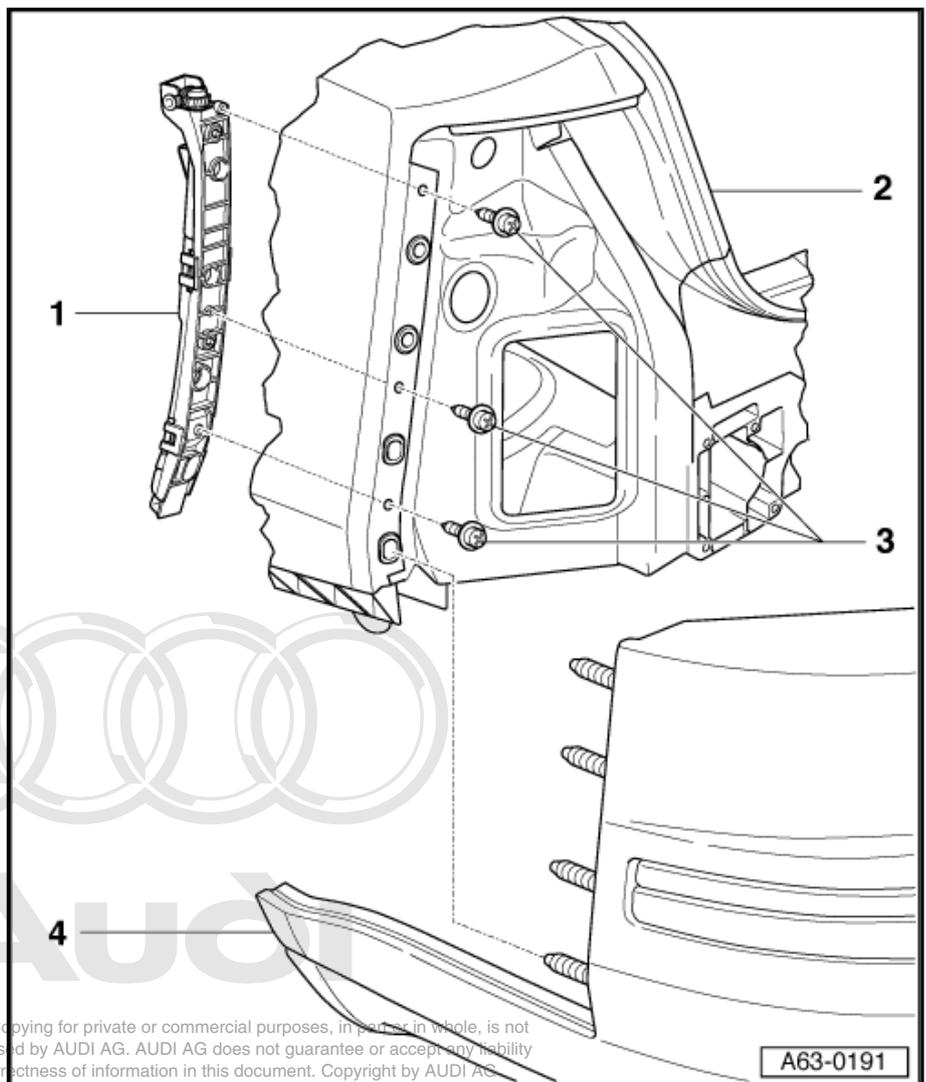
2 - Side panel

3 - Cross-head bolt

- 3x on each side
- 1.5 Nm

4 - Cover (rear)

- When installing, insert retaining pins in fastening strip through hole in side panel and lock in position.



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2.6 Removing and installing rear bumper

Exploded view

1 - Rear bumper

- Bumper cover removed
- Version for rest of world (RoW)
- To remove, unscrew multi-point head bolts -2- and detach bumper.

2 - Multi-point head bolt

- 30 Nm

3 - Impact damper

- USA only
- Detach bumper -6- before removing.

4 - Multi-point head bolt

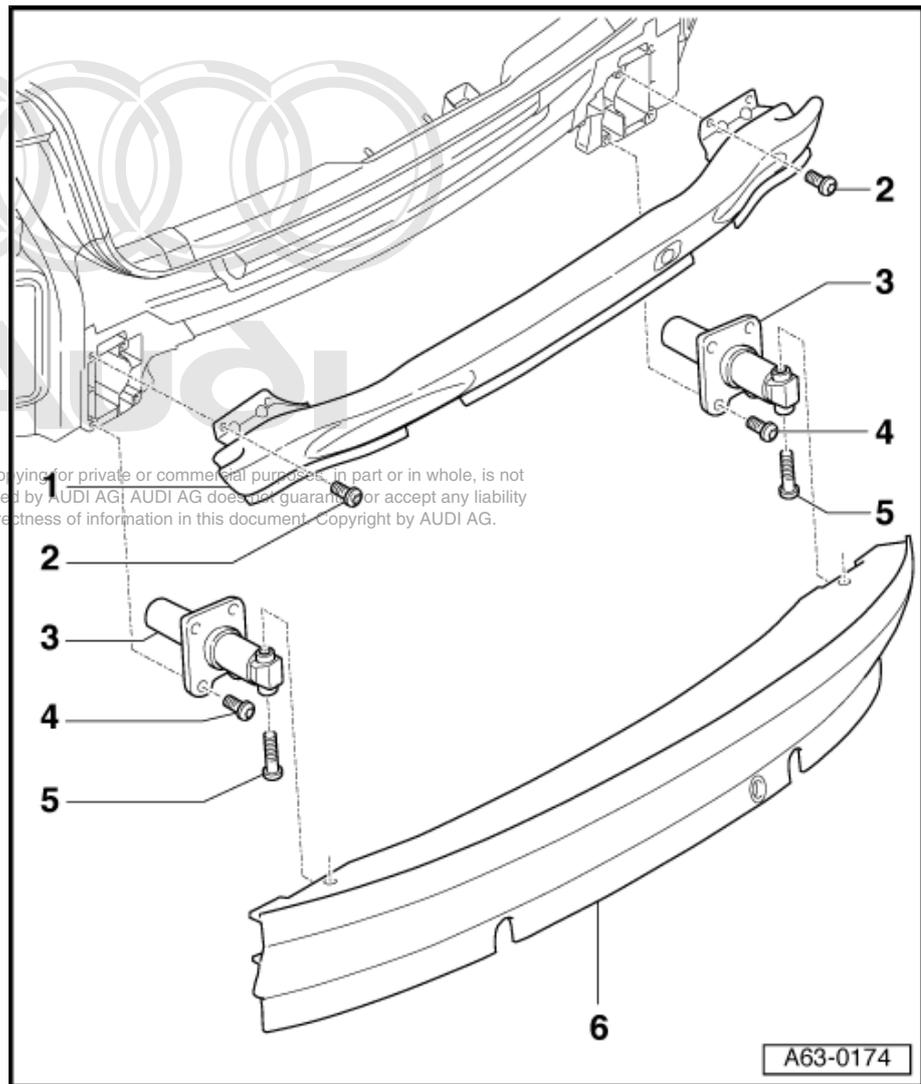
- 30 Nm

5 - Bolt with washer

- 23 Nm

6 - Bumper

- USA only
- Detach bumper cover before removing.
- To remove, unscrew bolt with washer -5- and detach bumper from impact damper -3-.



2.7 Removing bumper

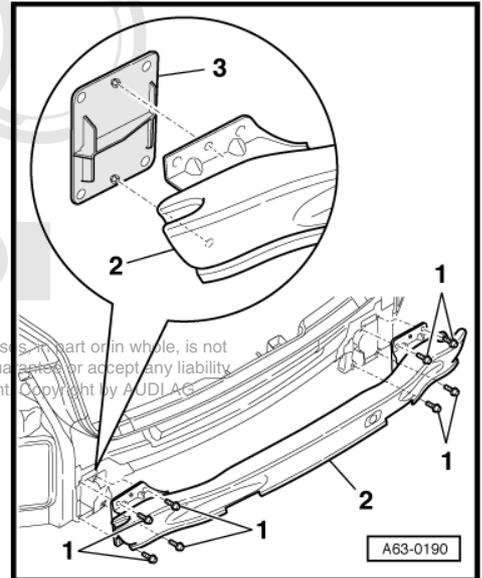
- Bumper cover removed

- Unscrew multi-point head bolts -1- on both sides and detach bumper.
- 1. Seal -3- must be clipped into bumper bracket -2- before fitting.

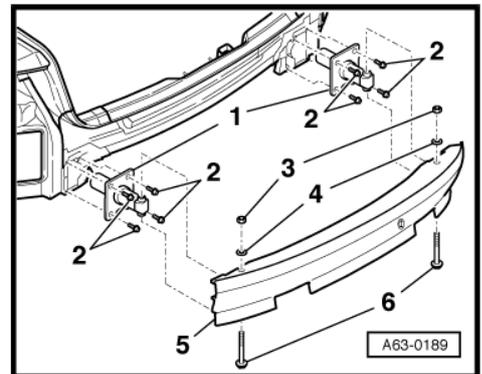
Country-specific version

- Bumper cover removed

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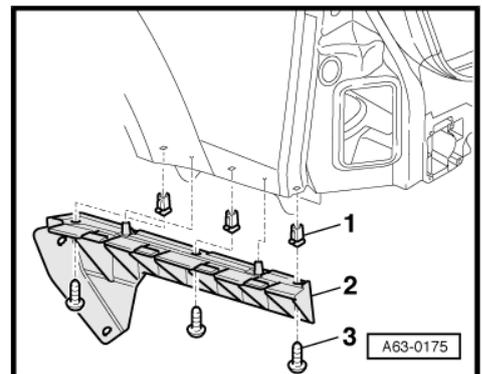


- Unscrew bolts with washers -6- and pull bumper out of impact dampers -1-.
- To remove impact damper, unscrew multi-point head bolts -1- and detach impact damper.



2.8 Removing rear guide

- Bumper cover removed
- To remove, unscrew bolts -3- from guide -2-.
- Clip -1- is inserted in side panel from underneath.



3 Towing bracket - exploded view

1 - Hexagon bolt

- 60 Nm



- When fitting, screw bolt completely through compensating element ⇒ [page 121](#) into threaded bushing -7- of fastener -9-.

2 - Washer

3 - Cross member

- Detach bumper prior to removal.
- Detach socket from towing bracket ⇒ [page 122](#).
- Unscrew hexagon bolt -1- completely from longitudinal member.
- Unscrew multi-point head bolts -7- on both sides.
- Pull towing bracket cross member out of longitudinal members.
- Installing ⇒ [page 122](#).

4 - Ball

5 - Retainer

6 - Electrical connector

- Removing ⇒ [page 122](#)

7 - Multi-point head bolt

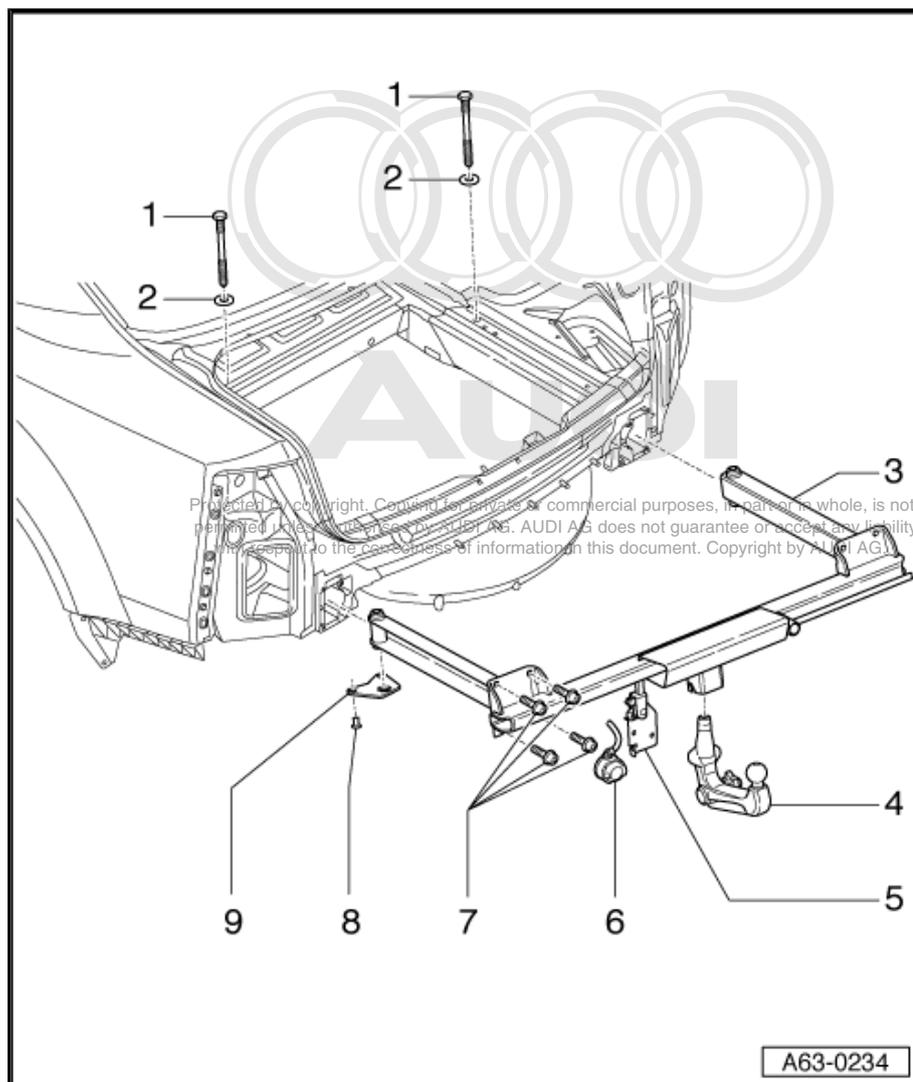
- 30 Nm

8 - Pop rivet

- 2x on each side

9 - Threaded plate

- Riveted to longitudinal member from underneath



3.1 Function of compensating element

Note

- ◆ *Self-adjusting elements for height compensation between longitudinal member and cross member are provided at side ends of cross member.*
- ◆ *When screwing in hexagon bolt -1-, compensation is thus automatically provided for gap between longitudinal member -3- and spacer sleeve -4- of cross member -7-.*

1 - Hexagon bolt

- 60 Nm



WARNING

Hexagon bolts are never to be driven through drive bushings by hitting with a hammer. Bolts are to be screwed completely through drive bushings -5- of spacer sleeve -4-.

- Never drive in using a hammer; screw in completely.

2 - Washer

3 - Longitudinal member

4 - Spacer sleeve

- Not available as a separate replacement part
- Unscrewed from cross member on screwing in hexagon bolt
- Dashed line indicates initial position.
- Before fitting cross member -3-, make sure spacer sleeve is in initial position.
- Spacer sleeve (left-hand thread) may have to be completely screwed in.

5 - Drive bushing

- Plastic component; pressed into spacer sleeve -4-
- Not available as a separate replacement part

6 - Cross member

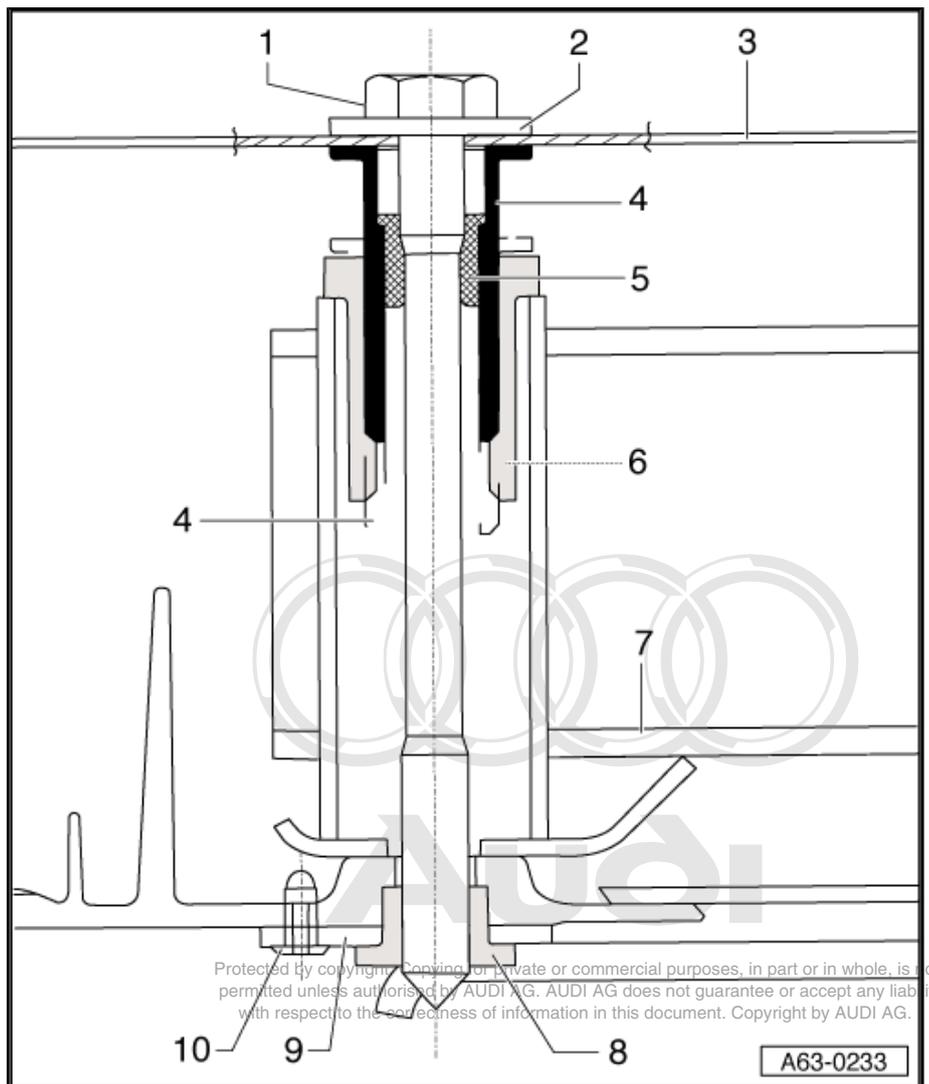
- Removing and installing ⇒ [Item 3 \(page 120\)](#) .

7 - Lower threaded bushing

- Not available as a separate replacement part

8 - Threaded plate

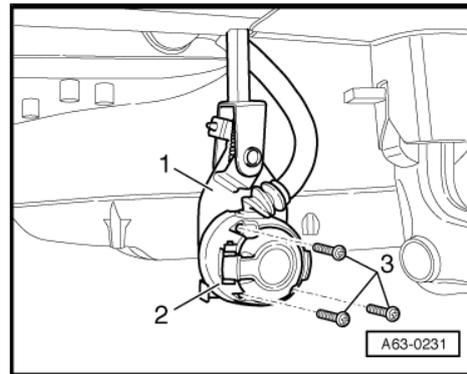
- Riveted to longitudinal member from underneath by way of rivet -9-



9 - Pop rivet

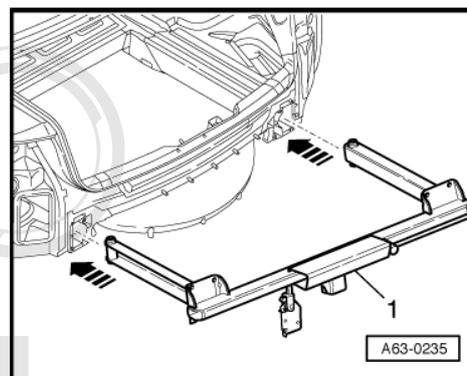
Removing connector

- Before removing towing bracket, fold out holder for connector downwards and unscrew bolts -3- from holder -1-.
- Detach connector from holder -1-.



3.2 Installing towing bracket

- Bumper removed
- Slide towing bracket cross member into longitudinal member, as shown.

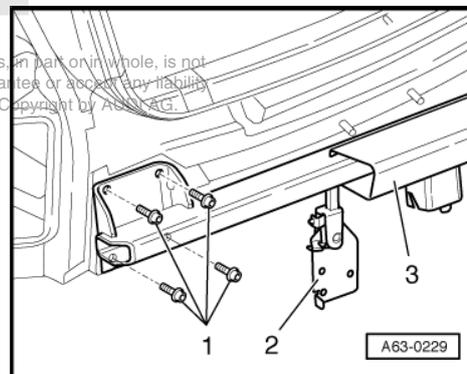


- Screw on cross member -3- on left and right using multi-point head bolts -1-.

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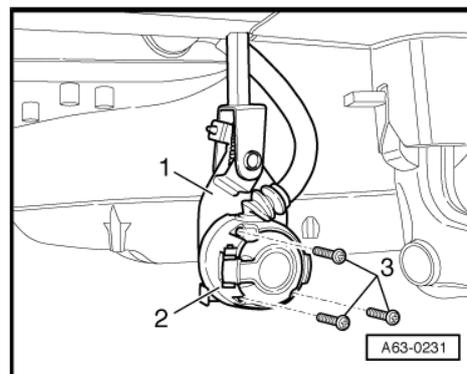
- Tighten multi-point head bolts to 30 Nm.

- Retainer -2- for connector



- Attach socket -2- with bolts -3- to retainer -1-.

- Tighten bolts -3- to 2.5 Nm.



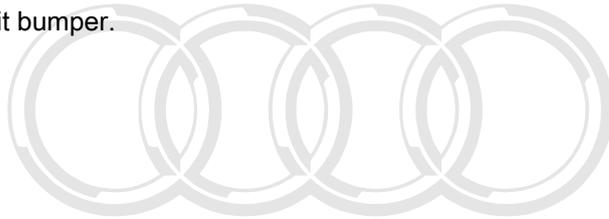
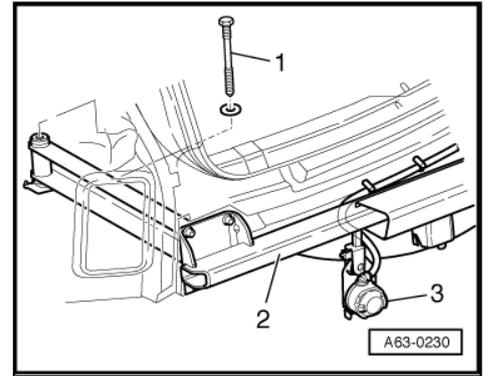
- Screw bolt -1- completely through longitudinal member into threaded plate at bottom of cross member -2-.



WARNING

Bolt is never to be driven through longitudinal member using a hammer.

- Tighten hexagon bolt to 60 Nm.
- Connector -3- attached to retainer
- Fit bumper.



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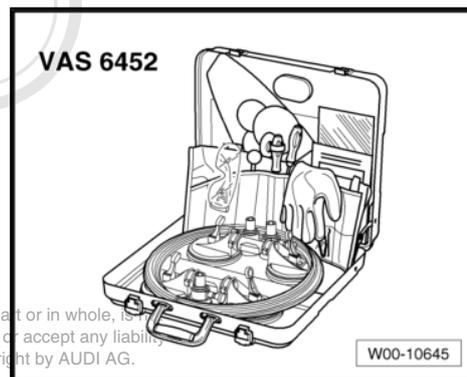
64 – Glazing

1 Flush-bonded windows

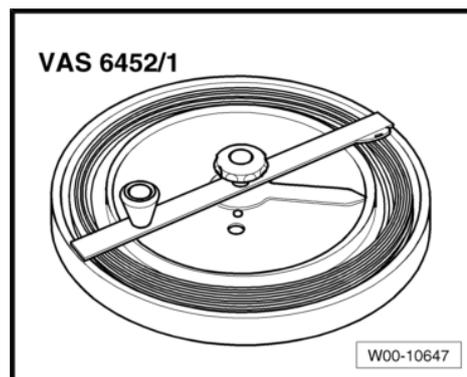
1.1 Removing and installing flush-bonded windows

Special tools and workshop equipment required

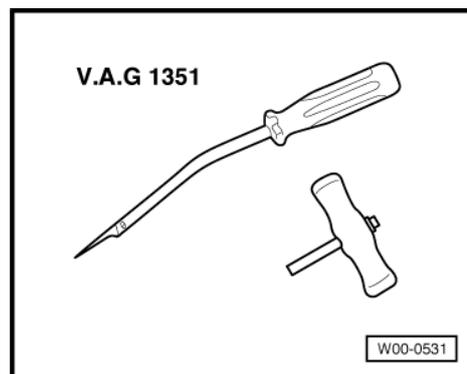
- ◆ Removal kit for flush bonded windows -VAS 6452-



- ◆ Wire reel -VAS 6452/1-

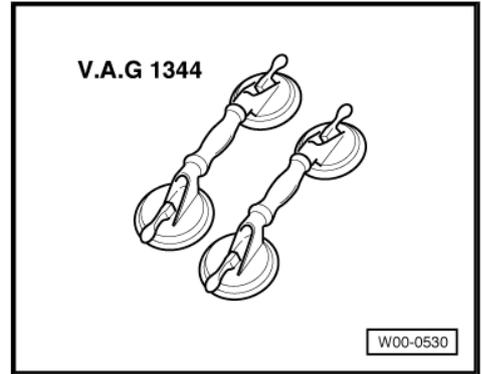


- ◆ Wire for removal kit -VAS 6452/2-
- ◆ Cutting tool -V.A.G 1351-

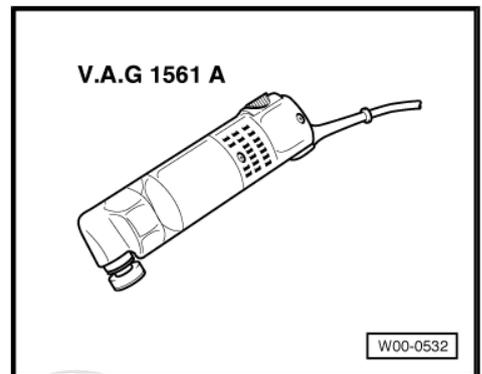


- ◆ Pull handle -V.A.G 1351/1-

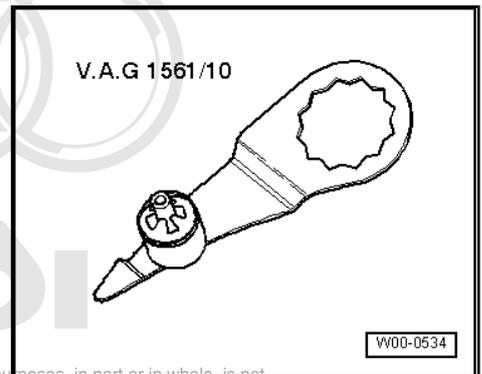
◆ Suction lifter -V.A.G 1344-



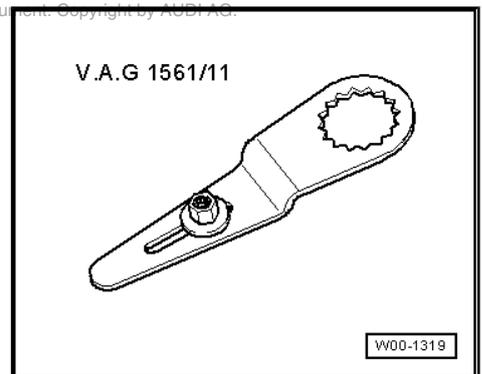
◆ Electric cutter -V.A.G 1561A-



◆ Blade, offset -V.A.G 1561/10-



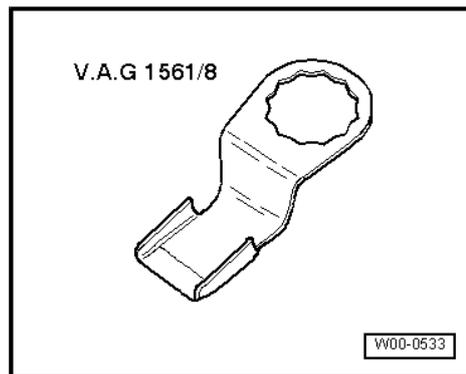
◆ Universal blade -V.A.G 1561/11-



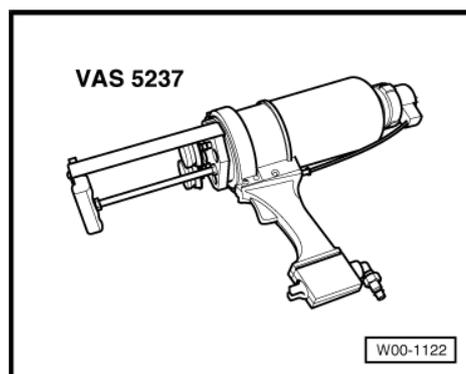
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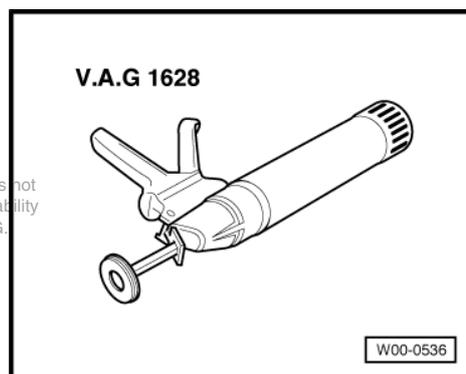
- ◆ Scraper (15+25 mm) -V.A.G 1561/7+8-



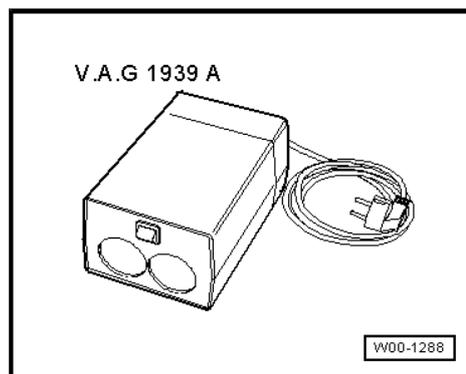
- ◆ Double cartridge gun -VAS 5237-



- ◆ Hand-cartridge gun -V.A.G 1628-



- ◆ Cartridge heater -V.A.G 1939A-



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Minimum drying times

 **WARNING**

- ◆ *For safety reasons, when installing windscreen or rear window, use only non-conductive 2-component adhesive with the designations listed below.*
- ◆ *You must NOT drive the vehicle until the minimum drying time has elapsed, as the vehicle is otherwise not safe to drive.*

Window	Vehicle	Adhesive sealant	Drying time in hours
Windscreen	With/without airbag	2-component window glass adhesive -DA 004 600 A2-	3
Rear window		2-component window glass adhesive -DA 004 600 A2-	3
Side windows		1-component window adhesive -DH 009 100 03-	3

Cleaning off adhesive sealant

We recommend using adhesive remover -D 002 000 10- for cleaning. Always follow the safety instructions.

 **Caution**

When cleaning from inside the vehicle passenger compartment, make sure you do not press the window you have just fitted outwards.

Painted surfaces

- First clean painted surface with a dry cloth. Then clean off remaining adhesive sealant with adhesive remover -D 002 000 10-.

Plastic trim

- Allow adhesive sealant to dry (approx. 1 hour) and then pull off.

1.2 Materials

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- ◆ 2-component window adhesive -DA 004 600 A2-¹⁾
- ◆ 1-component window adhesive -DH 009 100 03-⁴⁾
- ◆ Glass and paint primer -D 009 200 02-
- ◆ Cleaning solution -D 009 401 04-
- ◆ Applicator -D 009 500 25-
- ◆ Adhesive remover -D 002 000 10-
- ◆ Cutting wire -6452/2- / cutting thread -357 853 999-

1) Note minimum drying times ⇒ , page 127 .



- 2) To process this material use double cartridge gun -VAS 5237- .
- 3) Heat using cartridge heater -V.A.G 1939 A- according to manufacturer's instructions.
- 4) Miniature 110 ml cartridge for sealing and/or for use when the 400 ml double cartridge is not sufficient.

1.3 Window repair using windscreen repair kit -VAS 6092- and resin, Talon -VAS 1993/2-



Special tools and workshop equipment required

- ◆ Windscreen repair kit -VAS 1993- or -VAS 6092-



Note

- ◆ *Windscreens damaged by stone chipping can be repaired using windscreen repair kit -VAS 6092- and resin, Talon -VAS 1993/2- .*
- ◆ *The damaged areas must not exceed a certain size and area, and must not be within the main field of vision.*
- ◆ *For detailed information refer to the instructions supplied with each kit.*

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1.4 Minimum drying times



WARNING

- ◆ *For safety reasons, when installing windscreen or rear window, use only non-conductive 2-component adhesive with the designations listed below.*
- ◆ *You must NOT drive the vehicle until the minimum drying time has elapsed, as the vehicle is otherwise not safe to drive.*

Window	Vehicle	Adhesive sealant	Drying time in hours
Windscreen	With airbag	DA 004 600 A2	3
Rear window		DA 004 600 A2	3
Side windows		DH 009 100 03	3

Cleaning off adhesive sealant

We recommend using adhesive remover D 002 000 10 for cleaning. Always follow the safety instructions.



WARNING

When cleaning from inside vehicle, take care not to press out window just fitted.

Painted surfaces:

- First clean painted surface with a dry cloth. Then clean off any residual dirt using adhesive remover D 002 000 10.

Plastic trim:

- Allow adhesive sealant to dry (approx. 1 hour) and then pull off.

1.5 Re-sealing windows

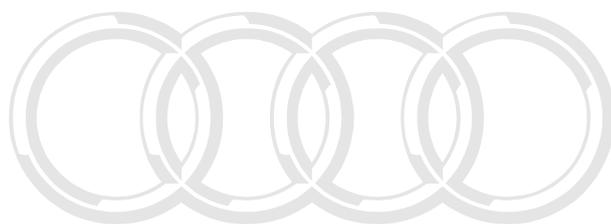
- Allow leaking area to dry and then clean.
- Apply and spread adhesive sealant in leaking area between window and metal flange.
- Allow adhesive sealant to harden.
- Perform leak test with water.
- Carry out visual inspection from passenger compartment.

1.6 Windscreen - exploded view



Note

After renewing the windscreen, the camera must be recalibrated on vehicles with lane departure warning ⇒ Rep. Gr. 44 .



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**1 - Windscreen**

- Removing ⇒ [page 137](#)
- Distance from roof: Dimension -a- = 3 mm ± 0.5 mm
- Align windscreen centrally between sides of frame.

2 - Adhesive bead

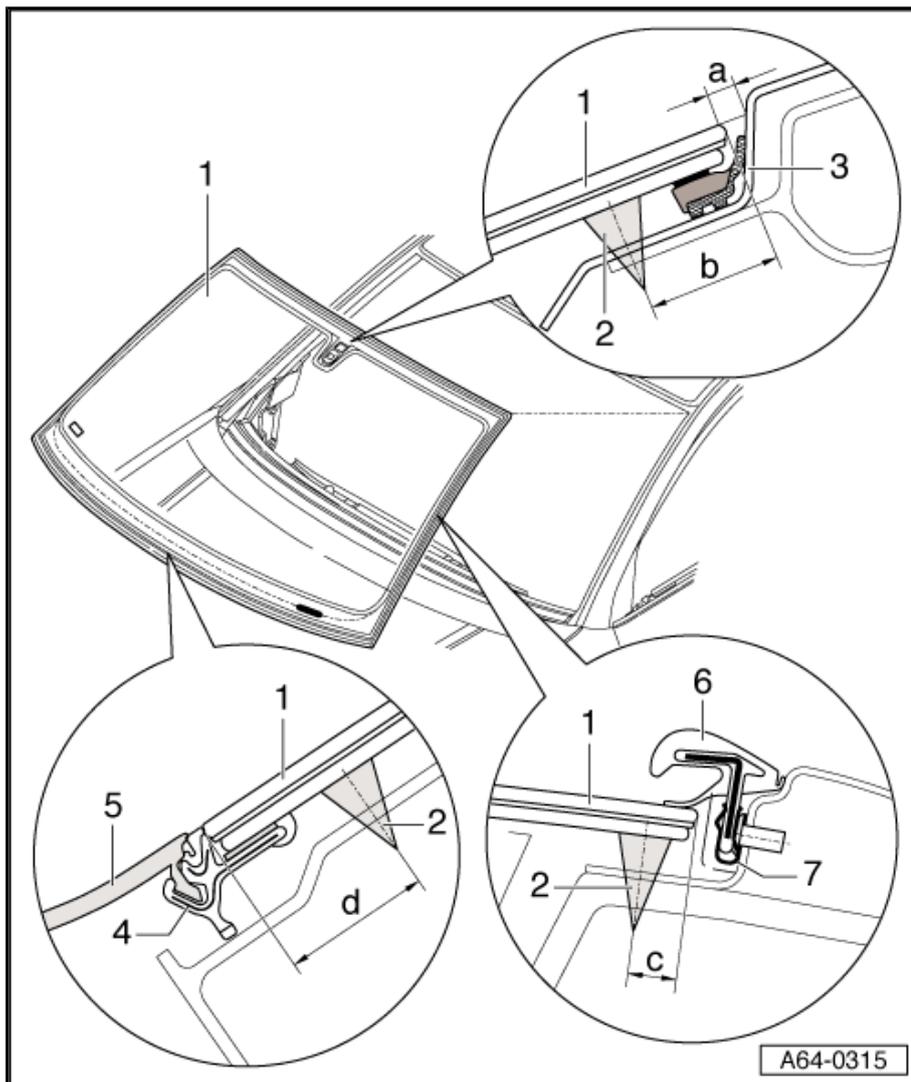
- Note drying times.
- Note differing distances from edge of windscreen:
- Dimension -b- = 18 mm ± 2 mm
- Dimension -c- = 8 mm ± 2 mm
- Dimension -d- = 20 mm ± 2 mm

3 - Trim section

- Can be renewed ⇒ [page 132](#)

4 - Windscreen surround

- Supplied with windscreen
- If damaged, pull off surround and remove any adhesive remnants with glass scraper.
- Clean bonding area with D 009 401 04 and prime with D 009 200 02.
- Press new surround centrally onto edge of windscreen.

**5 - Plenum chamber cover**

- Removing ⇒ [page 131](#)
- On new replacement windscreens, protective beading in retaining strip must be pulled out before installing plenum chamber cover ⇒ [page 131](#)
- Allow glass adhesive to dry before pressing plenum chamber cover into retaining strip.

6 - Water deflector strip

- Allow glass adhesive to dry before pressing water deflector strip home into fasteners.
- When pressing in, ensure sealing lip of water deflector makes contact with windscreen and does not slip behind edge of windscreen.

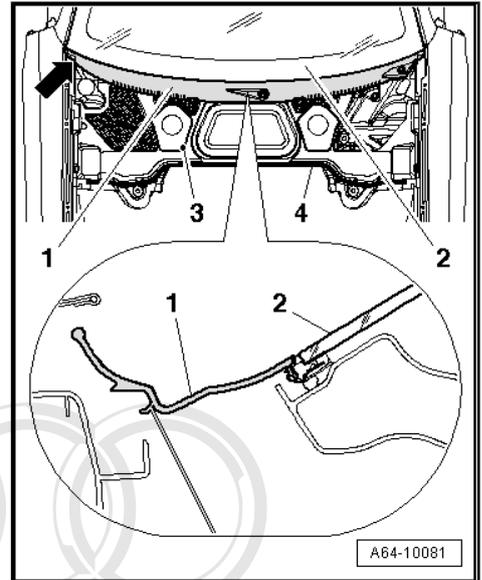
7 - Retaining clip

- Press water deflector strip into retaining clip as far as stop.

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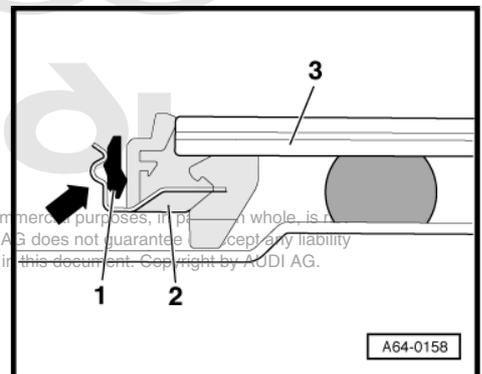
Removing and installing plenum chamber cover

- Windscreen removed.
- Lift off seal -4-.
- Pull front plenum chamber cover -3- to front out of plenum chamber cover -1-.
- Starting at side -arrow-, gradually lift plenum chamber cover out of fastening strip of windscreen -2-.



Removing protective beading for fastening strip

- Fit windscreen before pulling protective beading out of fastening strip.
- Before fitting plenum chamber cover, pull protective beading -1- out of fastening strip -2- of windscreen -3-.



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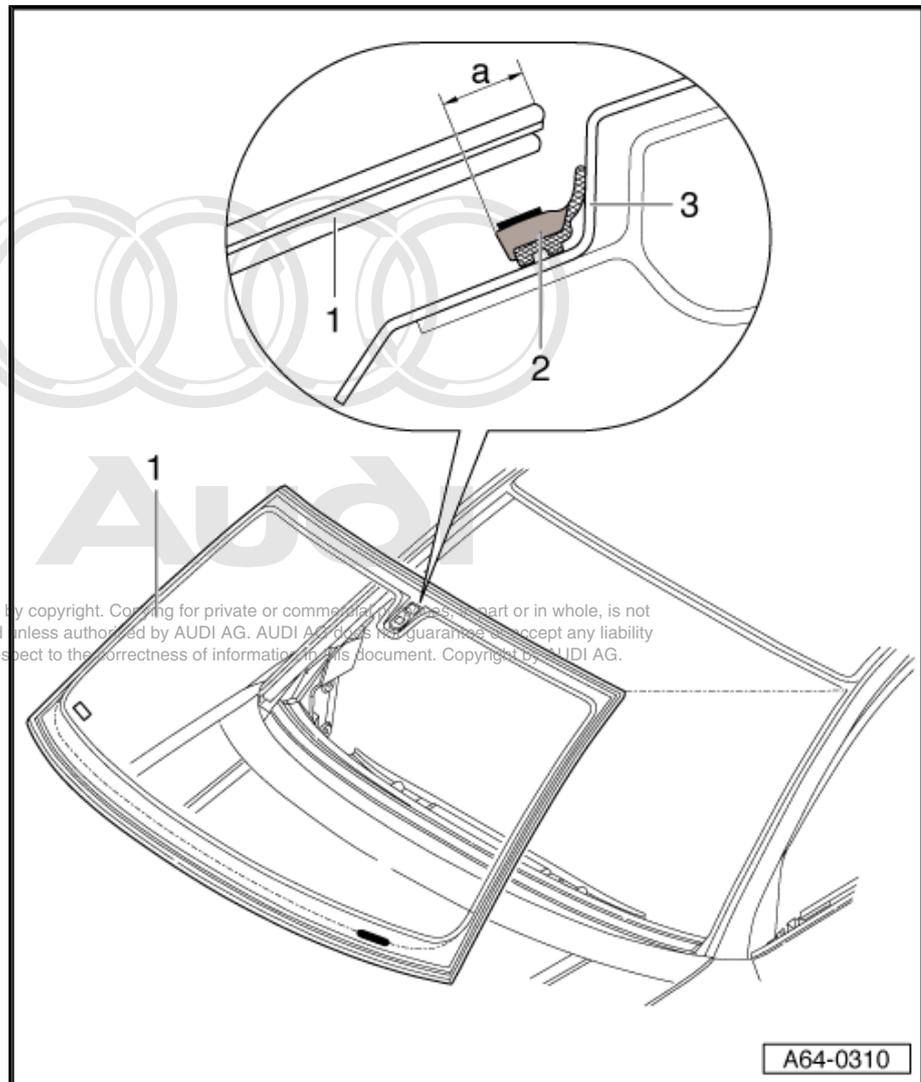
1.7 Renewing trim section

1 - Windscreen

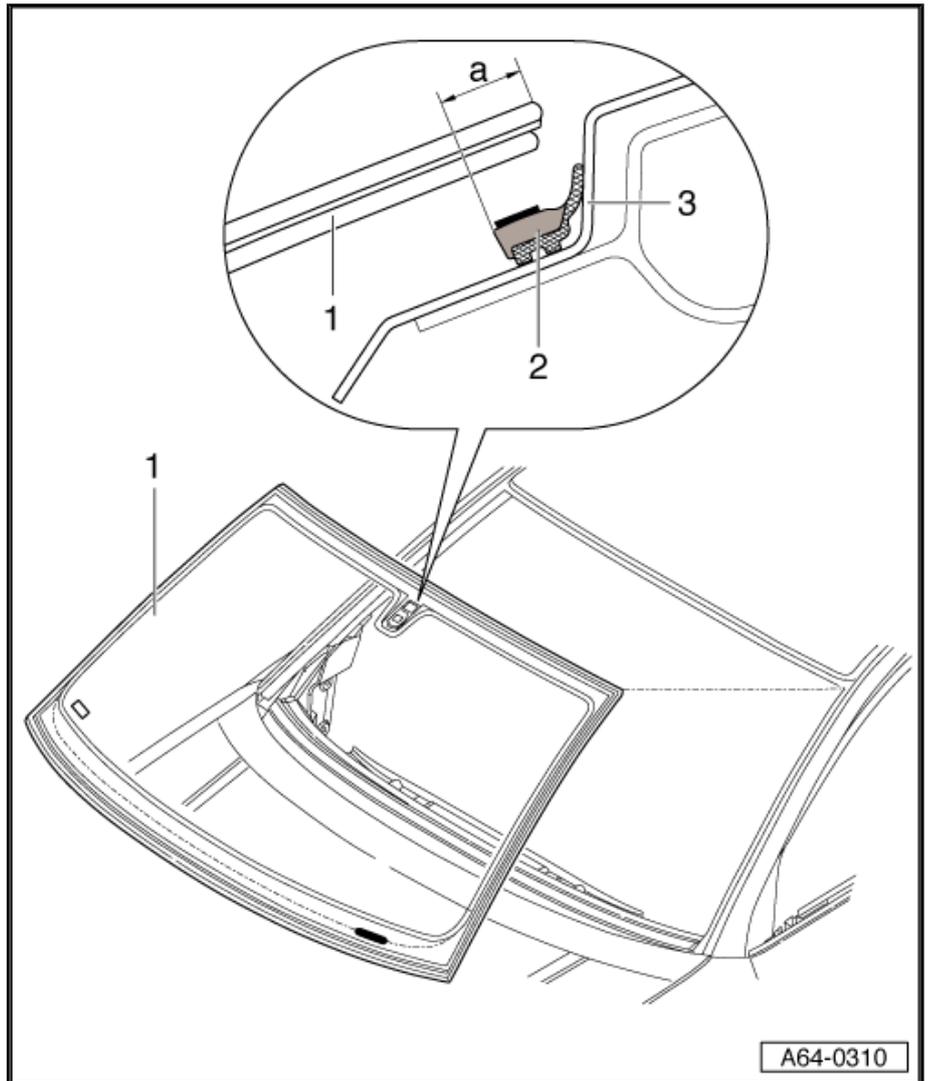
- Removed.

2 - Trim section

- Before fitting new trim section, use commercially available glass scraper to completely remove remnants.
- Clean bonding surface using cleaning fluid D 009 401 04.
- Use soft pencil, for example, to make mark on inside of windscreen at a distance $a = 8$ mm from top edge of windscreen.
- Prime bonding surface with D 009 200 02 as far as mark made earlier and allow to flash off for at least 10 minutes.
- Press rear edge of trim section at centre onto windscreen as far as end of primed area (pencil mark).
- Use roller to firmly press on trim section.
- Re-install windscreen.

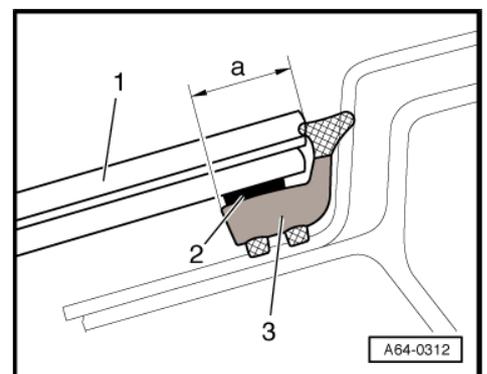


Bonding on trim section



- Windscreen -1- with black ceramic band
- If trim section is damaged, use glass scraper to completely remove remnants of section, taking care not to damage ceramic screen printed area.
- Clean bonding surface using cleaning fluid D 009 401 04.
- Then make a marking at an even distance of -a- = 8 mm from top edge of windscreen.
- Carefully apply primer D 009 200 02 as far as marking.
- Allow primer to flash off for at least 10 minutes.
- Pull backing off double-sided adhesive strip -2-.
- Press trim section -3- centrally onto windscreen in such a way that rear edge aligns with end of primed area (marking).
- Use roller to firmly press trim section onto windscreen.

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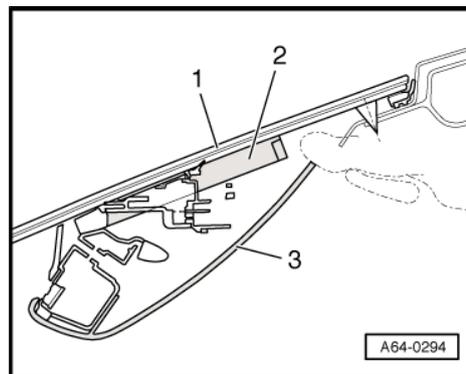


1.8 Removing and installing rain and light sensor -G397-



Note

On vehicles with rain sensor -2-, detach cover -3- for rain sensor from windscreen -1-.

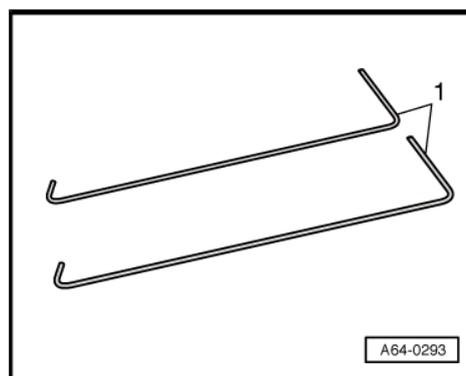


- To facilitate cover removal, make an improvised tool, e.g. from 1 mm thick welding wire -1- as shown.

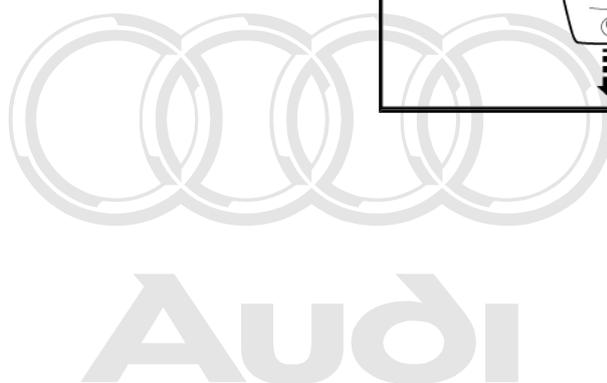
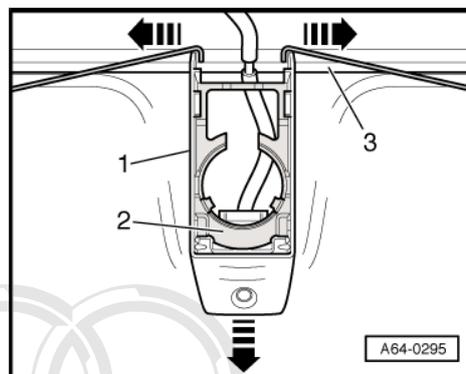


Note

Illustration shows rain sensor viewed from outside through ceramic screen printed area.



- At top of headliner -3-, carefully move improvised tool from both sides behind cover -1- of mounting for rain sensor -2-.
- Pull side of cover slightly outwards in direction of arrow and then detach cover downwards from mounting.



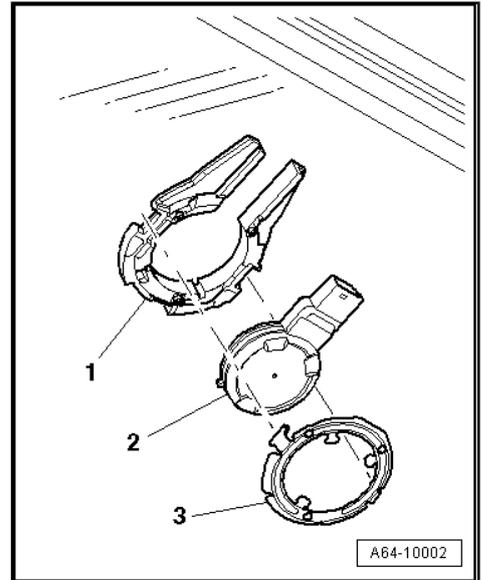
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- Press rain sensor with connecting cable away from windscreen to rear towards passenger compartment.

i Note

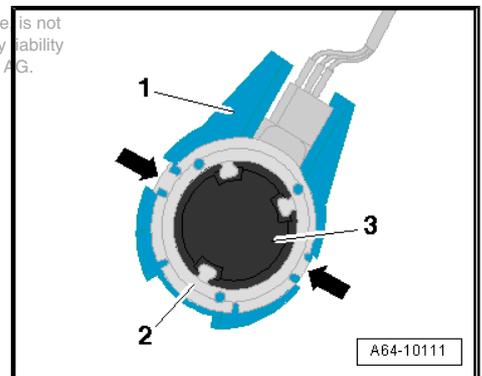
The foil on the rain sensor is destroyed when removing the rain sensor. You therefore have to renew the foil before re-installing the rain sensor.

- ◆ Retaining plate -1-
- ◆ Rain sensor -2-
- ◆ Retaining clip -3-



Unclipping retaining clip

- Unplug connector
- Use a small screwdriver or similar tool to press retaining clip -2- outwards at points marked by -arrows-.
- Pull retaining clip -2- off retaining plate -1-.
- Take rain sensor -3- out of retaining plate.
- Sensor foil will remain attached to the windscreen.
- If you are re-installing the same windscreen, the sensor foil has to be completely removed from the glass.
- Clean glass surface using cleaning fluid D 009 401 04.



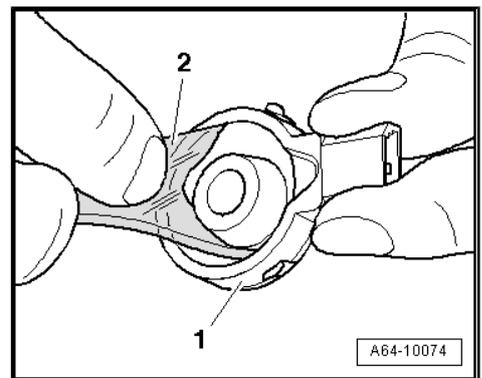
Installing rain sensor

i Note

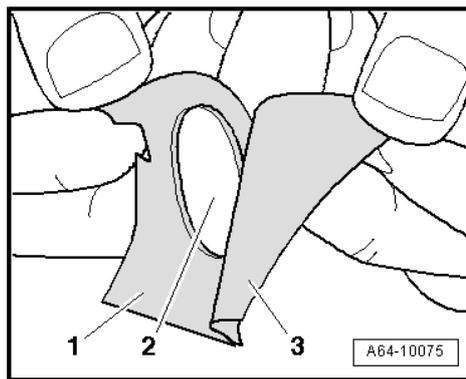
If re-installing the same rain sensor please proceed as follows:

- Remove any remains of the sensor foil from the rain sensor.
- Carefully pull the sensor foil -2- off the rain sensor -1-.
- Clean glass surface using cleaning fluid D 009 401 04.

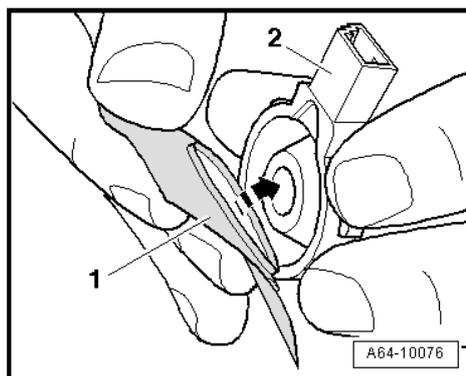
! Caution
The surface on the sensor must be completely free of foil remnants.



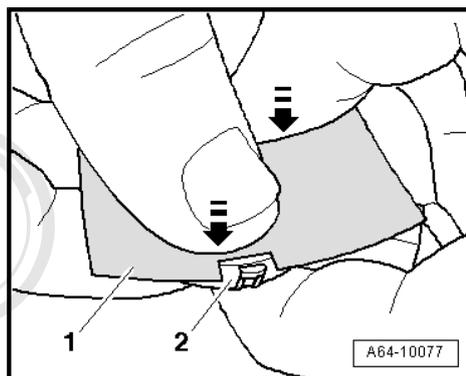
- Detach the silicone paper -3- from the sensor foil -2-.
- Transparent protective film -1- remains on the sensor foil for the time being in order to facilitate installation.



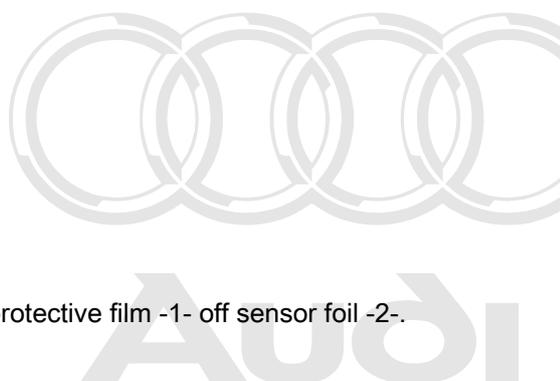
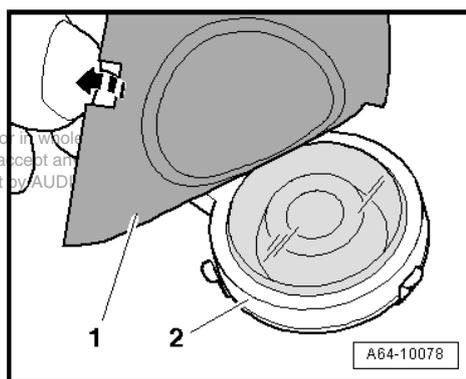
- Place sensor foil on rain sensor -2-, using protective film -1- as an aid.



- Press sensor foil onto rain sensor -2- (as shown in illustration) using the protective film -1- as an aid and making sure there are no air bubbles.



- Peel transparent protective film -1- off sensor foil -2-.

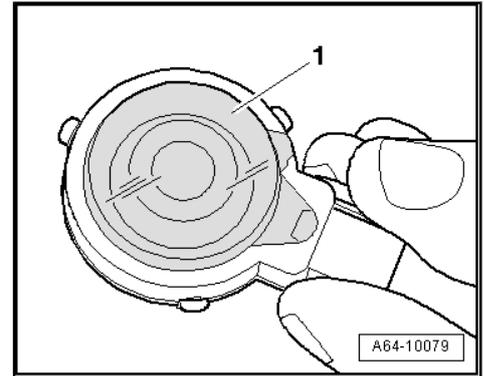


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- Spray cleaning solution D 009 401 04 onto entire surface of sensor foil -1- and insert sensor in mirror base.

Caution

To ensure it functions correctly, the rain sensor must be fitted in such a way that it makes contact with the windscreen without trapping any air bubbles.



- Press retaining clip for sensor onto mirror base.

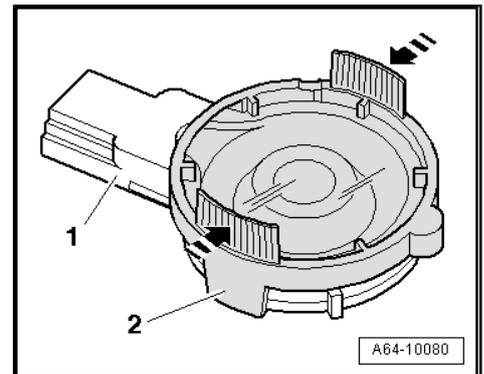
Renewing rain sensor

Note

To remove the sensor please proceed as already described.

- Remove any remnants of the "old" rain sensor foil from the windscreen.
- Clean contact surface of sensor on windscreen using cleaning solution D 009 401 04.

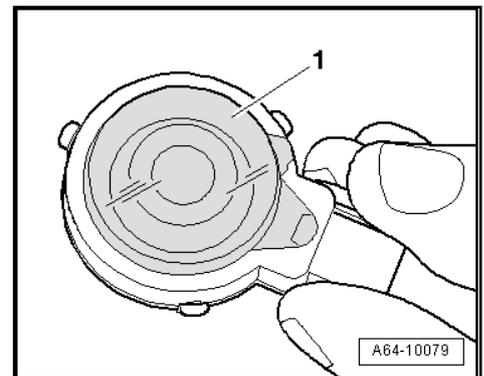
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- Lightly compress ribbed tabs -arrows- on protective cap -1- and detach protective cap from rain sensor -2-.
- Spray cleaning solution D 009 401 04 onto entire surface of sensor foil -1- and insert sensor in mirror base.
- Press sensor onto windscreen making sure you do not trap any air bubbles and position retaining clip on mirror base.

Caution

To ensure it functions correctly, the rain sensor must be fitted in such a way that it makes contact with the windscreen without trapping any air bubbles.



1.9 Removing windscreen

Preparations

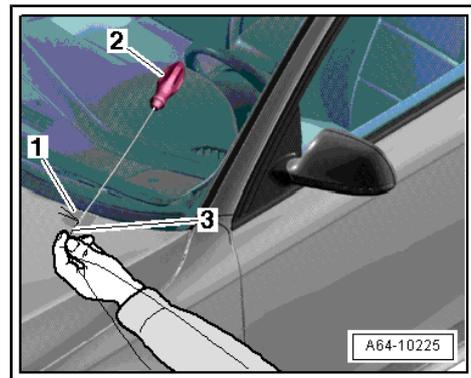
- Remove wiper arms => Rep. Gr. 92 .
- Remove cowl panel trim.
- Pull left and right water deflectors out of fastening strip (from the bottom upwards).
- Remove sun visors on left, in centre and on right => Rep. Gr. 70 .

- Remove interior mirror. ⇒ Rep. Gr. 70
- Disconnect all electrical wires leading to sensors, exterior mirrors and window heater.
- Dismantle trim on A- pillars (top) ⇒ Rep. Gr. 70 .

**WARNING**

Always wear safety goggles and leather gloves when removing windscreen.

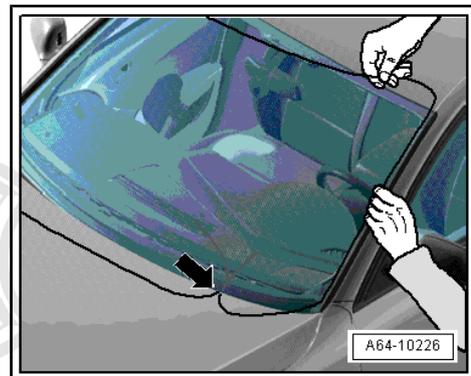
- Use wire reel -VAS 6452/1- to reel off about 6.5 metres of cutting wire (corresponding to 6 turns) and cut off.
- Mask over outlet of awl at bottom of body flange with adhesive tape -1- to avoid damage.
- Pierce adhesive bead in this area with awl from inside to outside, as shown.
- Thread both ends of cutting wire -3- into awl -2- and pull through to the inside.



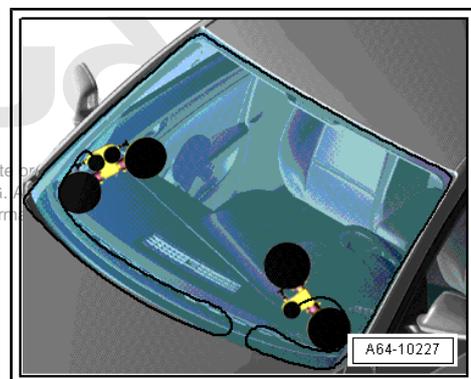
- Position cutting wire under glass all around windscreen, as shown.

**Caution**

The wire ends must not be twisted at the point where they pass through the adhesive bead -arrow-.

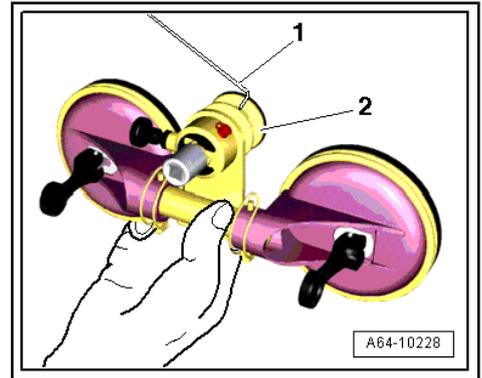


- Attach both reels to the inside of the windscreen, as shown.

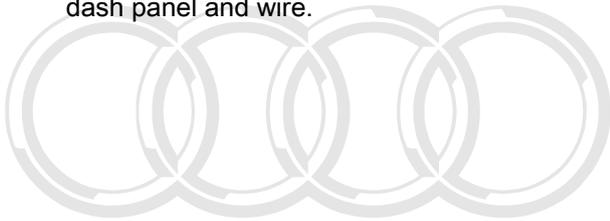


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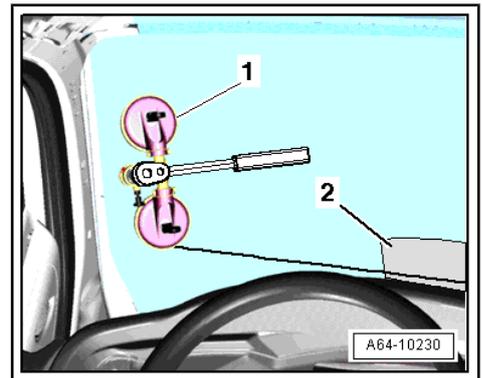
- Insert end of cutting wire -1- into reel -2-



- Tension cutting wire and insert protective film -2- between dash panel and wire.

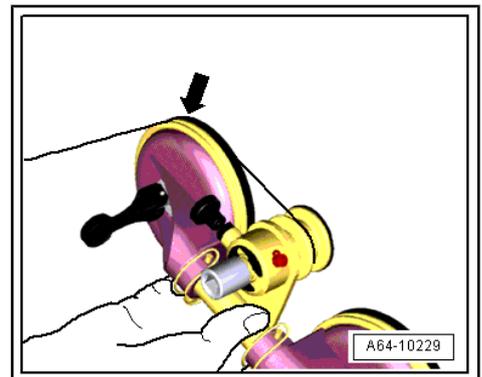


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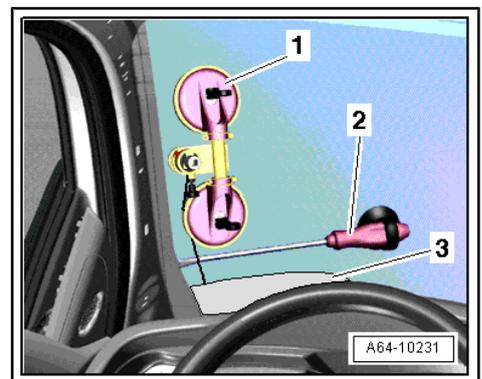


- Cut clear the first area. While doing so, wire is guided into integrated idler pulley -arrow- on reel.

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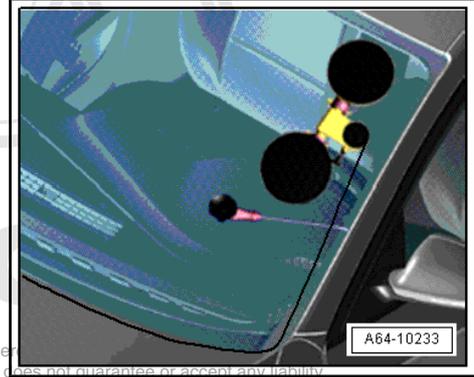


- Additionally insert guide awl -2- into the adhesive bead, as shown, and attach it to windscreen using suction pad so that wire runs along windscreen as close to the glass as possible.
- Adjust protective film -3- as necessary with length of wire and continue cutting clear using reel -1-.





- Adjust reel and guide awl as shown, and cut clear area at "A-pillar".
- Adjust reel and guide awl to approx. centre of windscreen, as shown.



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- Cut clear windscreen approx. to centre.



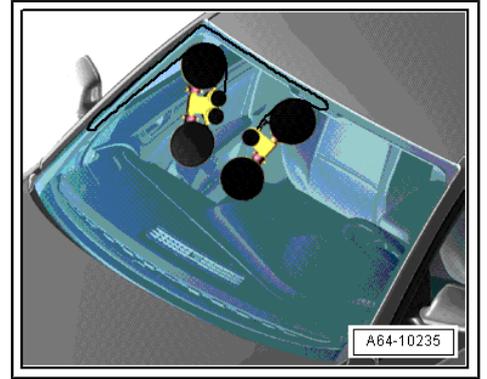
- Use second reel to cut clear bottom area of windscreen.



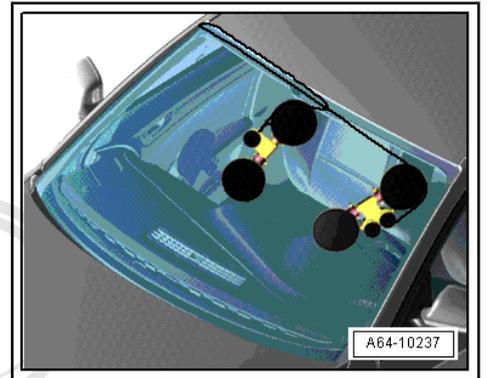
- Move reel up and insert guide awl, as shown.



- Cut clear windscreen upwards along A-pillar.



- Adjust reel over centre of windscreen and adjust first reel as shown and cut windscreen fully clear at top.
- Lift windscreen out of vehicle using two double suction pads.



1.10 Installing windscreen

Preparations before installing a new windscreen

- Just before re-installing an undamaged windscreen, use electric cutter -V.A.G 1561 A- and scraper (25 mm) -V.A.G 1561/8- to cut back the remaining adhesive sealant on the windscreen and body flange for an even surface, but do not remove completely.

Note

The remaining sealant is required as a base for better adhesion of the new adhesive sealant.



Caution

- ◆ *Keep bonding surface clean and free from grease.*
- ◆ *Do not cut back bonding surface until shortly before installation.*
- ◆ *Do NOT apply primer to bonding surface and do NOT use cleaning solution.*

If installing a new windscreen:

- Clean all around the windscreen bonding area with cleaning solution -D 009 401 04- .
- Apply glass and paint primer -D 009 200 02- as described in the following.



Caution

The ceramic coating on the glass is not a primer. The glass must always be primed before applying adhesive sealant.

Applying primer:

- Use applicator -2- to apply primer -3- evenly and in one movement onto windscreen -4- beside moulding -1-.
- Start application with fully soaked felt.
- Primer width approx. 20 mm
- Apply primer centrally in relation to adhesive bead.
- Flashing-off time: 10 minutes

Windscreen flange:

- If windscreen flange has been damaged, paintwork structure must be repaired and, if necessary, anti-corrosion measures must be taken => Audi Paintwork Guide .
- Clean repaired area using cleaning solution -D 009 401 04- and then apply glass and paint primer -D 009 200 02- .

Installing windscreen

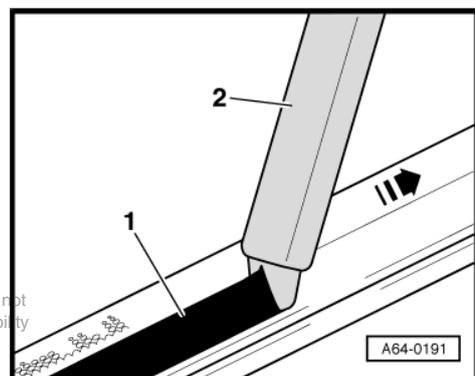
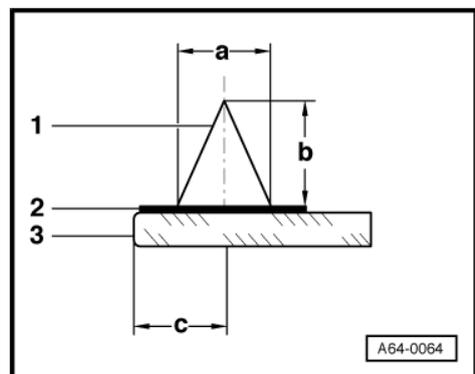
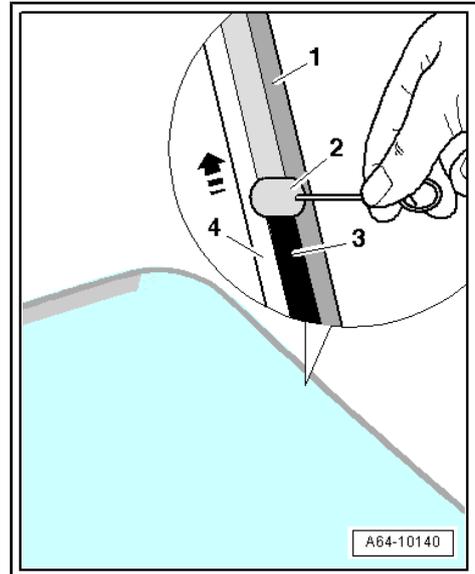


Note

The cross-section of the adhesive bead is determined by the nozzle opening and the rate of application.

Dimensions for applying adhesive:

- 1 - Adhesive bead
- 2 - Primer
- 3 - Windscreen
- Dimension -a- = 8 mm
- Dimension -b- = 12 mm
- Dimension -c-: note different distances from edge of windscreen => [Item 2 \(page 130\)](#) .
- Apply full surface of nozzle -2- to windscreen.
- Direction of application -arrow- for adhesive bead -1-.

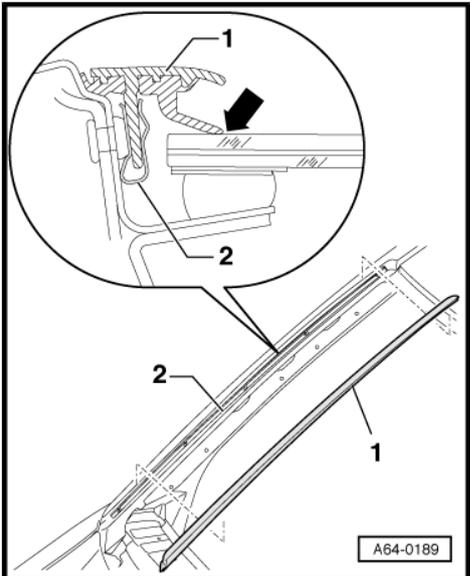
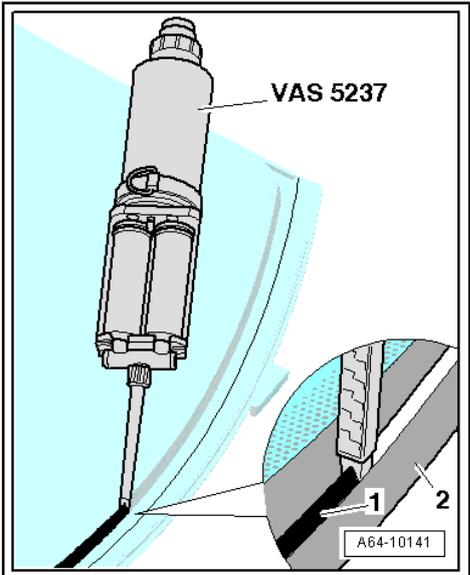


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- Apply adhesive sealing material -1- all round windscreen -2-, as shown.
- In the case of an undamaged windscreen apply adhesive to remaining adhesive bead.
- Install windscreen glass in windscreen opening using two double suction lifters.

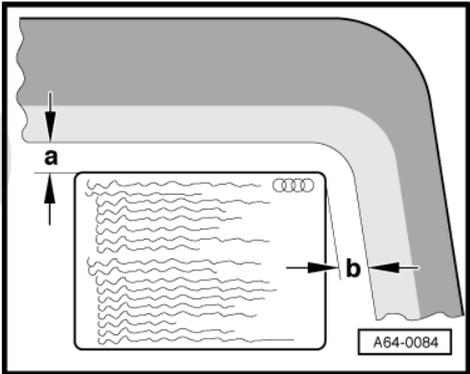
Caution
Windscreen must be fitted within 15 minutes, otherwise the adhesive properties of the adhesive sealant will be impaired.

- Align windscreen glass at sides.
- Distance from edge of windscreen to roof frame
 => [Item 1 \(page 130\)](#).
- Secure windscreen to roof at top with adhesive tape.
- Allow adhesive to dry before pushing water deflector strip -1- into retaining clips -2- as far as it will go.
- When pressing in, ensure sealing lip -arrow- of water deflector makes contact with windscreen and does not slip behind edge of windscreen.
- Reattach stickers to windscreen (e.g. for airbag) at same locations on new windscreen.



Sticker Attention - Safety precautions

- ◆ Dimension a = 25 mm
- ◆ Dimension b = 10 mm
- Pull protective strip -2- out of fastening strip before fitting plenum chamber cover.
- Note minimum drying time => [page 128](#).



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1.11 Removing and installing side window

1 - Side window

- Removing ⇒ [page 144](#)
- Note differing distances between adhesive bead and edge of window.
- When installing, start by positioning bottom of window on side panel.
- Press home window at bottom -arrow- and into window opening.
- After the setting time, fit roof trim strip and D-pillar trim.

2 - Roof trim strip at D-pillar

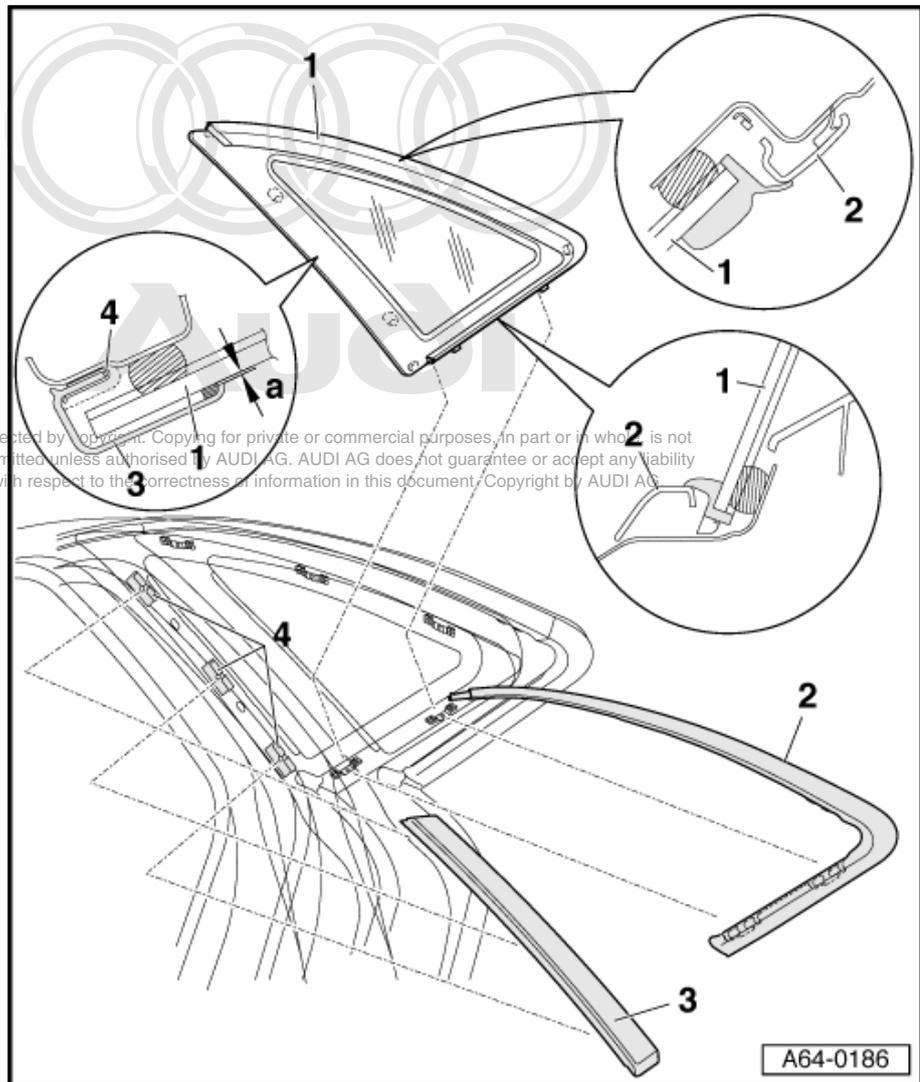
- C- pillar trim removed
- To remove, start by carefully prising out of fasteners at bottom of -C- pillar.
- Then prise out of fasteners at D-pillar and pull downwards out of roof trim strip.

3 - C-pillar trim

- To remove, pull trim to rear out of fasteners -4-.
- When installing, start by positioning trim at roof trim strip (top) and then press completely into fasteners -4-.
- Dimension a = 0.5 ± 0.1 mm

4 - Fasteners

- Riveted to -C- pillar



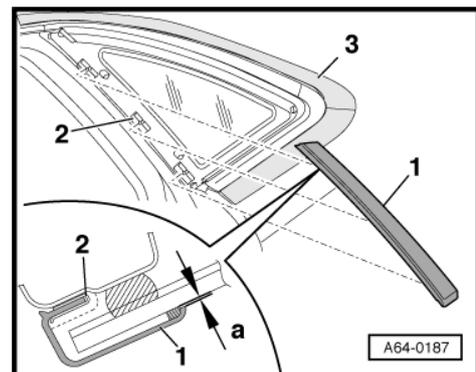
Removing undamaged window

- Remove C/D-pillar trim ⇒ Rep. Gr. 70 .
- To protect paintwork, bond adhesive strip -3- to -C- and -D- pillars, as well as to side panel.
- Pull trim strip -1- to front out of fasteners -2-.

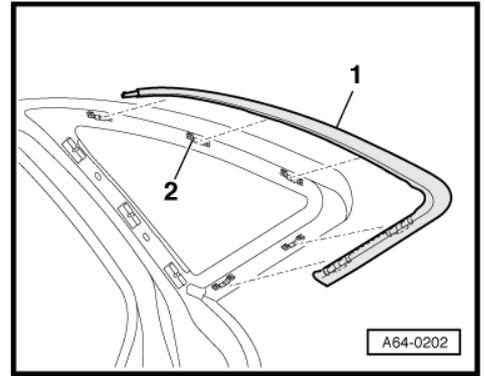


WARNING

Take care not to bend roof trim strip.



- Starting at C-pillar and working from underneath, use plastic wedge to carefully pull roof trim strip -1- out of fasteners.
- Also prise roof trim strip out of fasteners at D-pillar and pull roof trim strip off downwards.
- Route cutting thread around side window as shown in illustration.



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- Secure ends X and Y in two handles of cutting tool - V.A.G 1351- .
- Employing a gentle sawing motion, pull cutting thread in direction of arrow -A- and cut through adhesive bead at bottom of side panel and at roof frame.
- Then pull cutting thread downwards in direction of arrow -B- through adhesive bead.
- Take window out of window opening.

Preparations before installing a new window



Note

If window flange is damaged on removal, re-establish paintwork structure as stipulated in "vehicle paintwork" manual and take anti-corrosion measures if necessary in line with instructions given in "surface treatment/chemical materials" binder.

If you are reusing an undamaged window

- When reusing an undamaged window, use a carpet knife to cut back the remaining adhesive sealant on the window and body flange for an even surface, but do not remove completely.
- The remaining sealant is required as a base for better adhesion of the new adhesive sealant.



WARNING

- ◆ **Keep bonding surface clean and free from grease.**
- ◆ **Do not cut back bonding surface until shortly before installation.**
- ◆ **Do NOT apply primer to bonding surface and do NOT use cleaning solution.**

- Apply adhesive bead to remaining adhesive material.
- ◆ Width of bead = 8 ± 2 mm
- ◆ Height of bead = 13.5 ± 1.5 mm

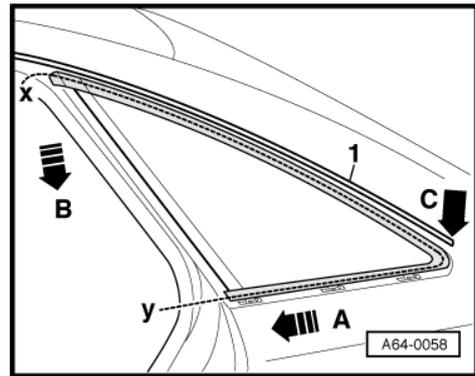


Note

We recommend the use of adhesive sealant D 009 100 03 (small cartridge) for bonding on a single window or D 004 300 05 (2-component adhesive) for more than one window.

If installing a new window:

- Clean window in bonding area using D 009 401 04 and apply glass/paint primer D 009 200 02.
- Note 10-minute flashing-off period for primer.
- Apply adhesive.



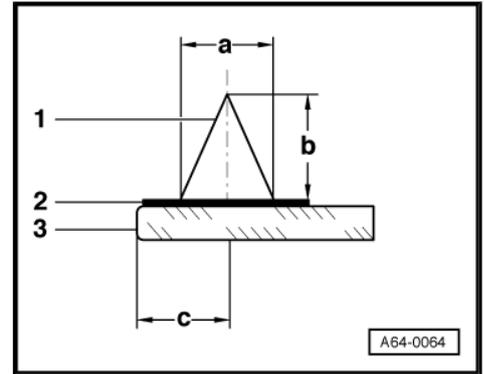
Dimensions for applying adhesive

1 - Adhesive bead

2 - Primer

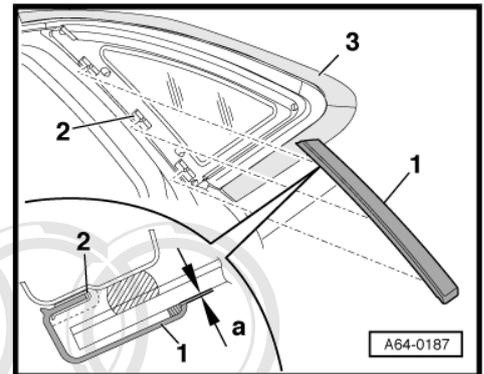
3 - Window

- ◆ Width of bead $a = 8 \pm 2$ mm
- ◆ Height of bead $= 13.5 \pm 1.5$ mm
- ◆ Dimension c: note different distances from edge of window
- Press roof trim strip into fasteners at D-pillar.



- Press trim -1- into fasteners -2- at -D- pillar and side panel at bottom.
- Position bottom of window at side panel and press into opening.
- Move window until it makes contact with -B pillar-.
- Secure window in opening using adhesive tape.

Distances between adhesive bead and edge of window



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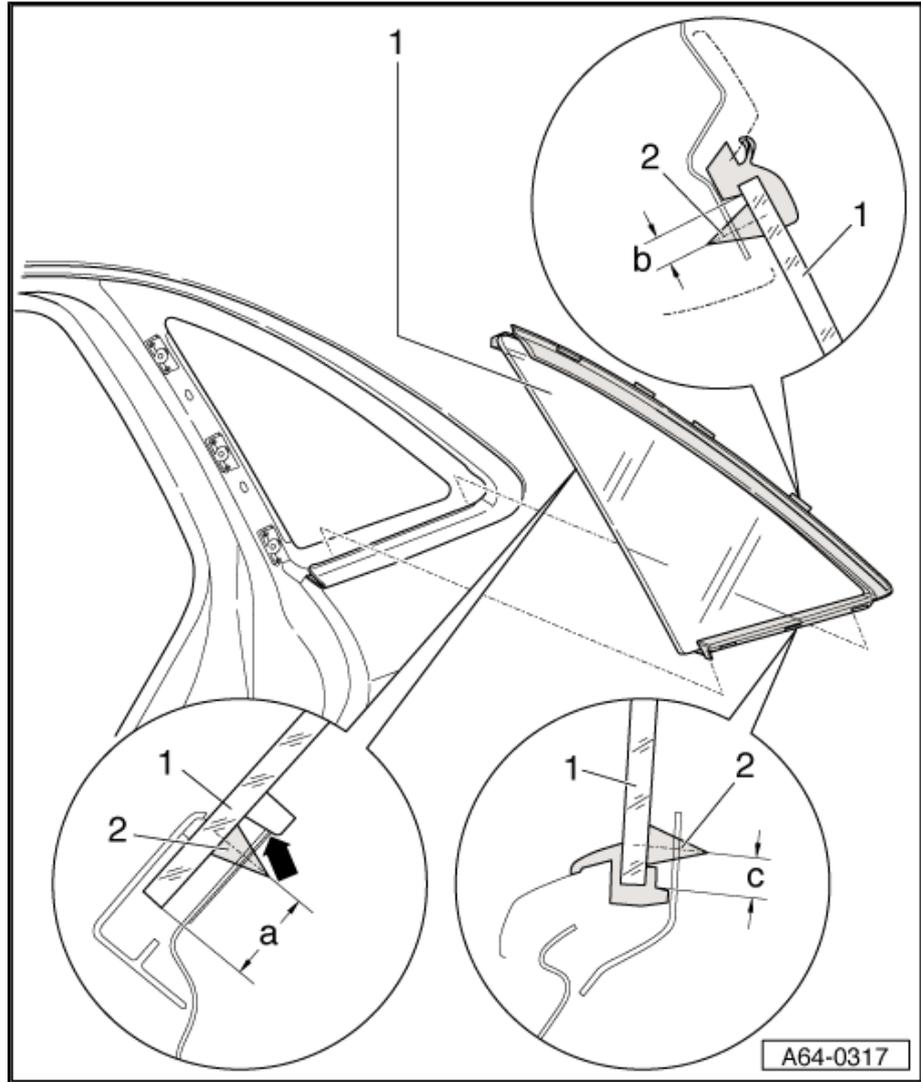


1 - Side window

- ❑ When installing, press window onto flange -arrow- as far as stop.

2 - Adhesive bead

- ❑ Distance -a- = 18.5 mm
- ❑ Distance -b- = 6.5 mm
- ❑ Distance -c- = 8 mm



- Position B-pillar trim (top) at roof trim strip and slide trim -1- into fasteners at sides.
- Observe drying times.



Audi

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1.12 Rear window - exploded view

1 - Rear window

- Removing ⇒ [page 152](#)
- Distance -a- to top edge of window = 3.5 mm.
- Distance -b- to side edge of window = 2 mm; align if necessary.

2 - Adhesive bead

- Distance from edge of window (all round) 16 mm
- Bead cross-section
- Width of bead = 8mm +2 mm
- Height of bead = 12 mm + 3 mm

3 - Trim section

- Can be renewed ⇒ [page 150](#)

4 - Spacer

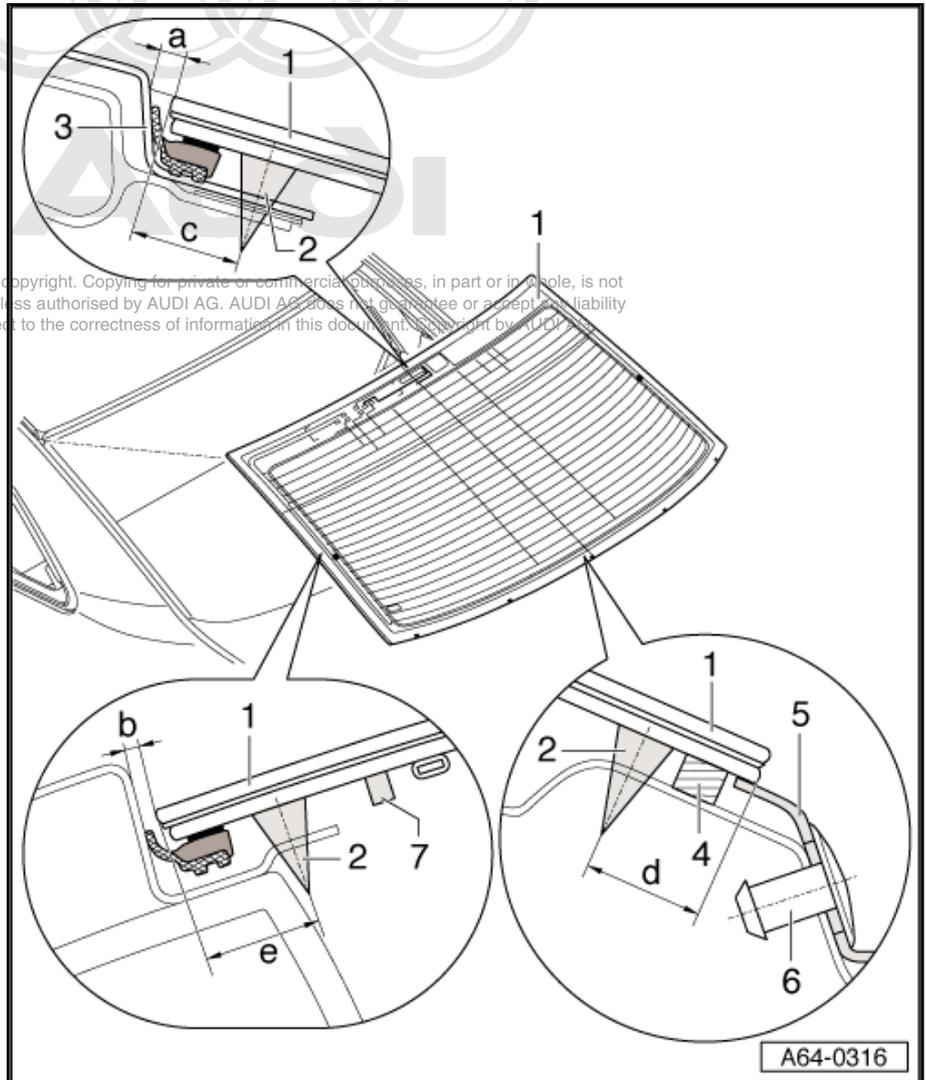
- Observe different heights for standard/heat-absorbing glass.
- Bond spacers onto markings at bottom edge of window.

5 - Trim section (bottom)

6 - Locking pin

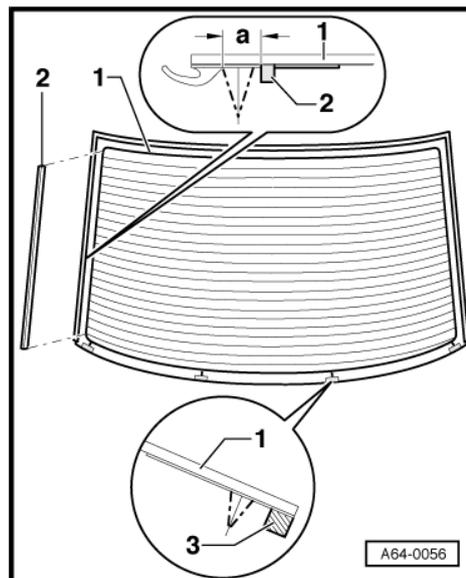
7 - Adhesive stopper strip

- Glue onto window next to busbar ⇒ [page 150](#)
- Position inner edge of adhesive stopper strip at outer edge of busbar for heated rear window and press on.



**Bonding on adhesive stopper strip**

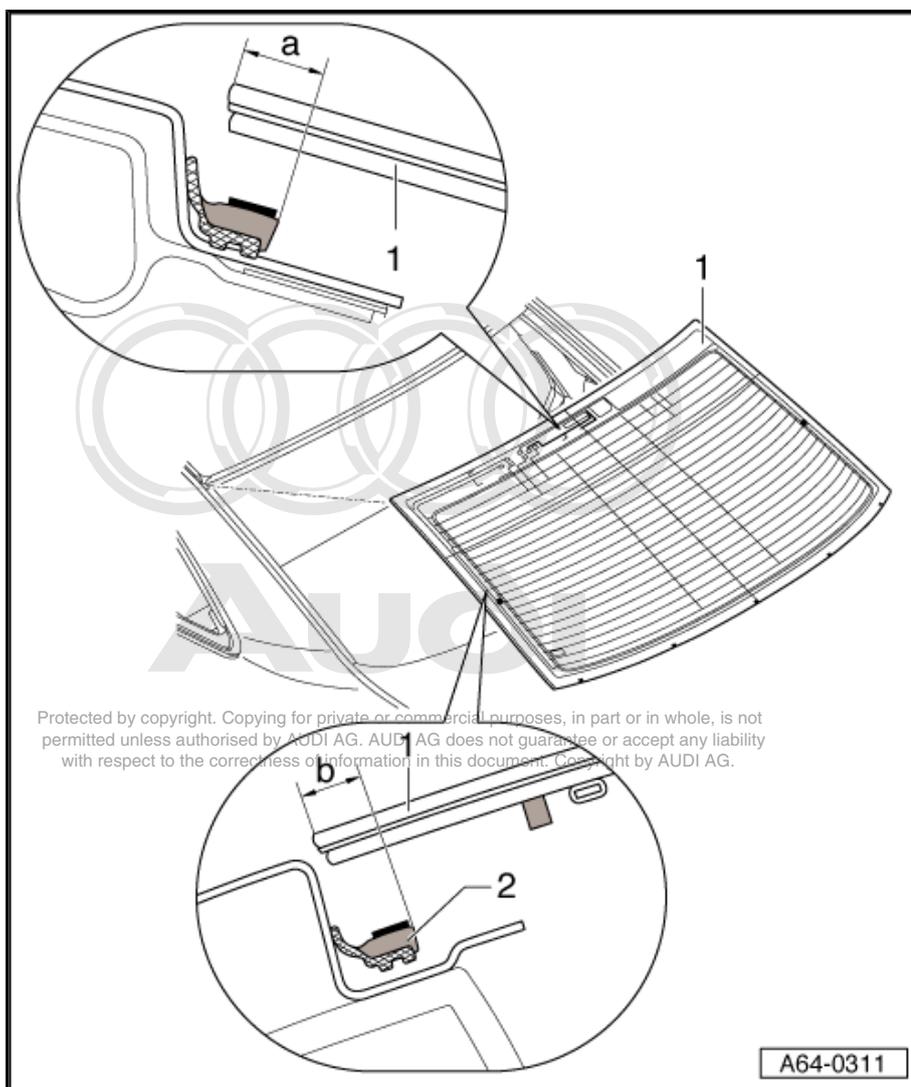
- Position inner edge of adhesive stopper strip -2- at outer edge of busbar for heated rear window and press on.
- Bond on spacers -3- in accordance with marks on rear window -1-.

**1.13 Renewing trim section****1 - Rear window**

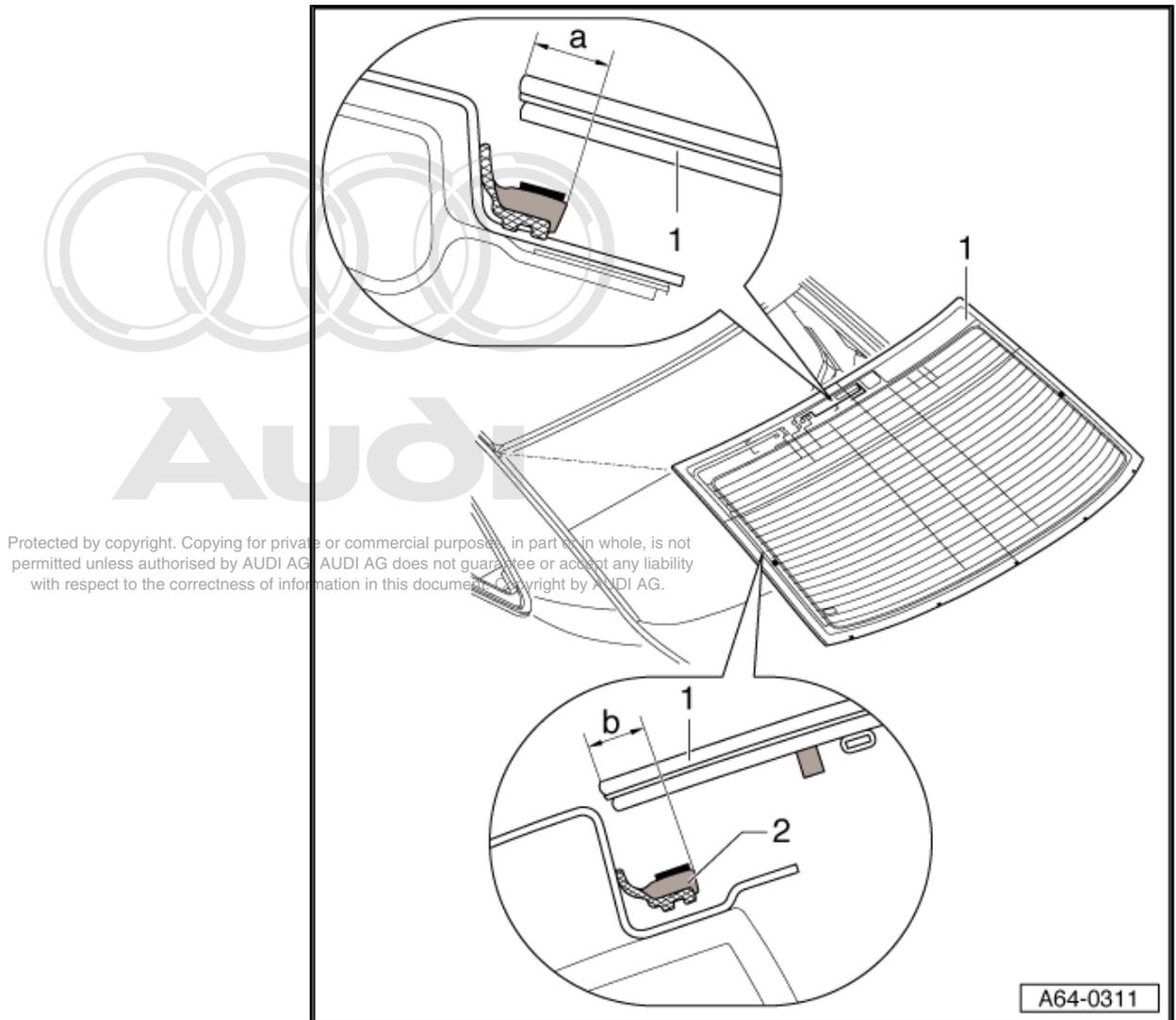
- Removed.

2 - Trim section

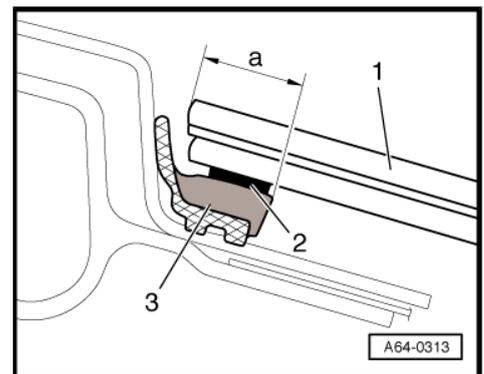
- Before fitting new trim section, use commercially available glass scraper to completely remove remnants.
- Clean bonding surface using cleaning fluid D 009 401 04.
- Use soft pencil, for example, to make mark on inside of window at a distance -a- = 8 mm from top and side edge of window.
- Prime bonding surface with D 009 200 02 as far as marks made and allow to flash off for at least 10 minutes.
- Starting from top edge of window, press rear edge of trim section at centre onto window as far as end of primed area (pencil mark).
- Then press on sides of trim section, again at a distance -b- = 8 mm from edge of window.
- Use roller to firmly press on trim section all round.
- Re-install window.



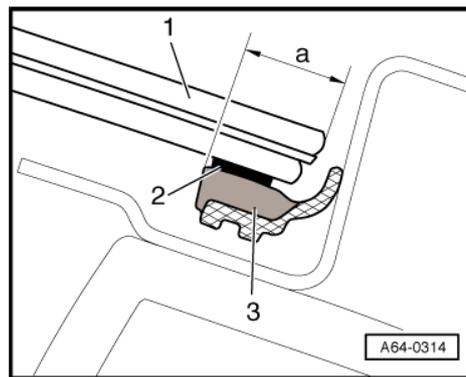
1.14 Bonding on trim section



- Rear window -1- with ceramic band
- If trim section is damaged, use glass scraper to completely remove remnants of section, taking care not to damage ceramic screen printed area.
- Clean bonding surface using cleaning fluid D 009 401 04.
- Then make mark at distance -a- = 8 mm from both top and side edge of window.
- Carefully apply primer D 009 200 02 as far as marks.
- Allow primer to flash off for at least 10 minutes.
- Pull backing off double-sided adhesive strip -2-.
- Press trim section -3- centrally onto window in such a way that rear edge aligns with end of primed area (marking).
- Observe spacing from side edges of window (8 mm) when doing so.



- Press rear edge of trim section -3- at side onto side edges of window as far as end of primed area (mark).
- Use roller to firmly press trim section onto window.



1.15 Removing rear window

Removing undamaged rear window

- ◆ C-pillar trim and D-pillar trim removed.
- ◆ High-level brake light removed.
- Unplug electrical connectors for heated rear window and window aerial, move towards centre of window and secure with adhesive tape.

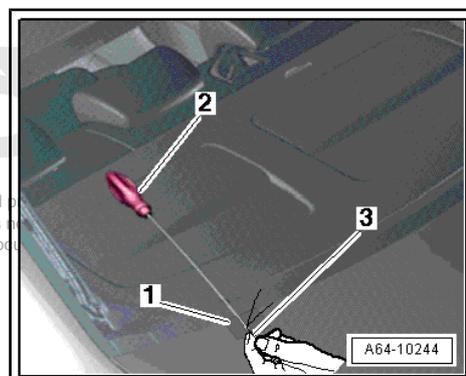


WARNING

Always wear safety goggles and leather gloves when removing window.

- Use wire reel -VAS 6452/1- to reel off about 6.5 metres of cutting wire (corresponding to 6 turns) and cut off.
- Mask over outlet of awl at bottom of body flange with adhesive tape -1- to avoid damage.
- Thread both ends of cutting wire -3- into awl -2- and pull through to the inside.

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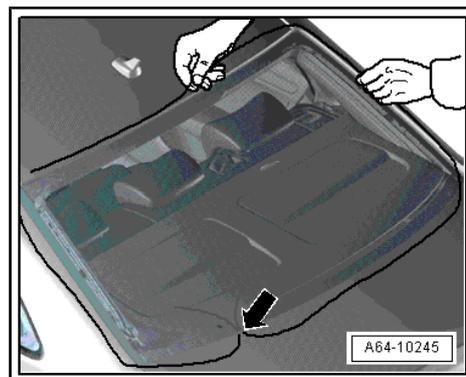


-
- Position cutting wire around rear window (under window), as shown.

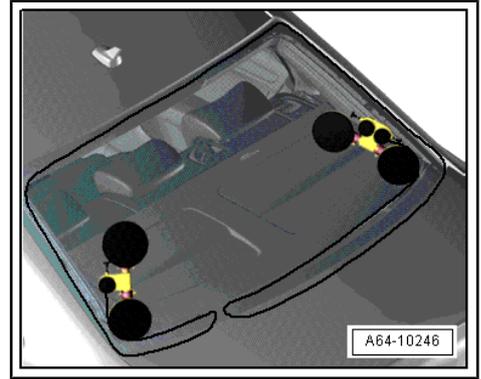


Caution

The wire ends must not be twisted at the point where they pass through the adhesive bead -arrow-.



- Attach both reels to the inside of the window, as shown.

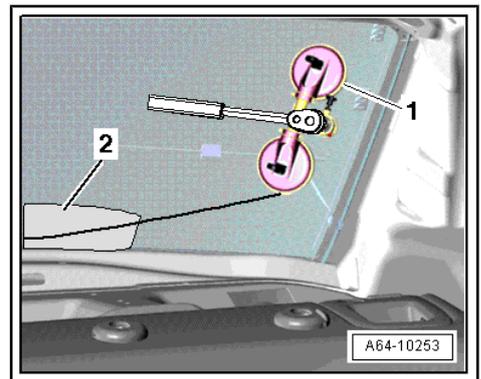
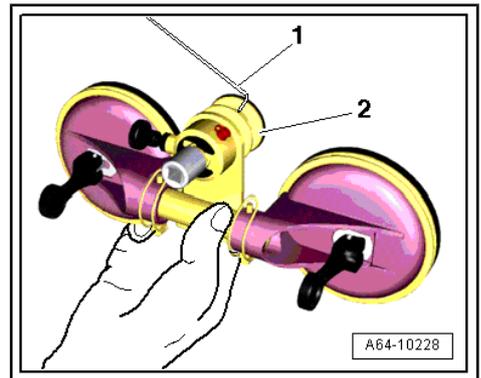


- Insert end of cutting wire -1- into reel -2-
- Tension cutting wire with reel -1- and insert plastic film -2- from removal kit -VAS 6452- as protection between wire and window.

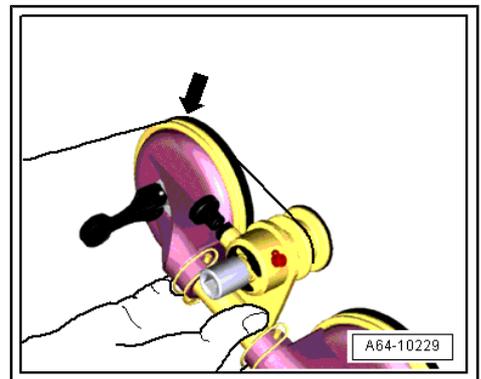


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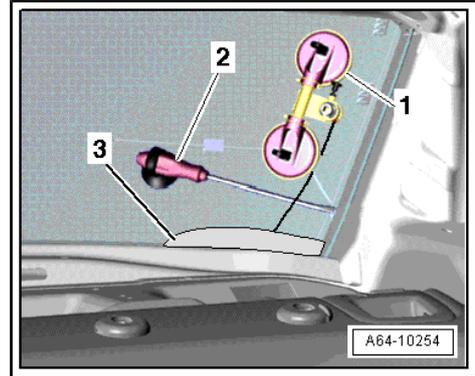
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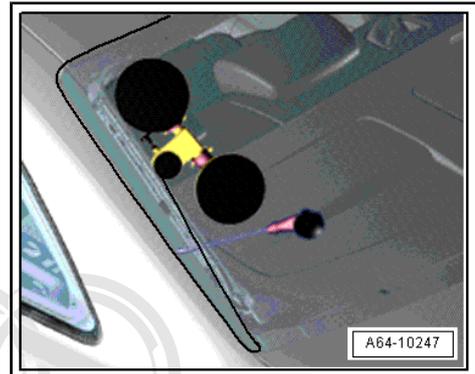
- Cut clear the first area. While doing so, wire is guided into integrated idler pulley -arrow- on reel.



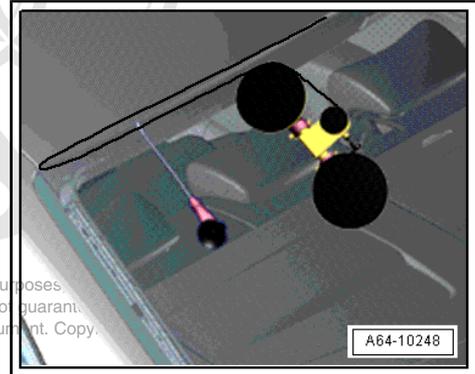
- Additionally insert guide awl -2- into the adhesive bead, as shown, and attach it to window using suction pad so that wire runs along window as close to the glass as possible.



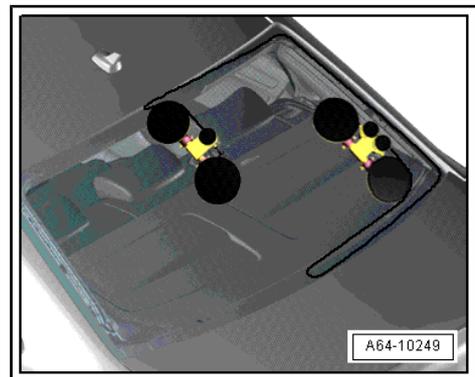
- Adjust reel and guide awl, as shown, and cut clear area on "D-pillar".
- Adjust reel and guide awl, as shown.



- Continue cutting window clear up to around its centre.

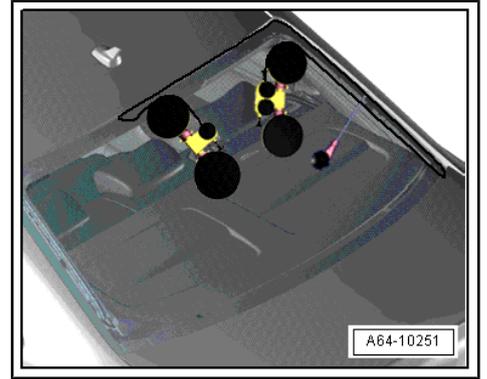


- Use second reel to cut clear bottom area of window.

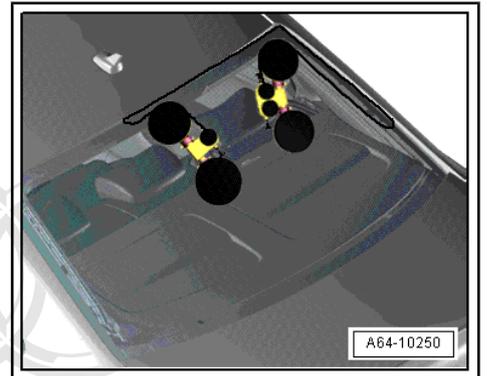


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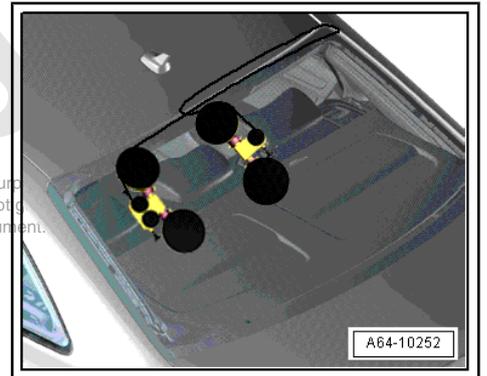
- Move reel up and insert guide awl, as shown.



- Cut window clear upwards along D-pillar.



- Move reel across centre of window and past first reel, as shown, and cut window fully clear at top.
- Remove window from window opening using double suction lifters.



 **Note**

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Always wear safety goggles and leather gloves when removing window.

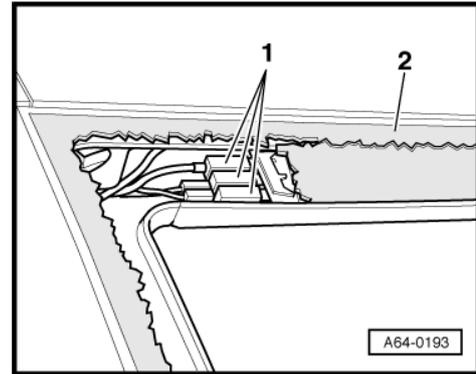
- Remove rear shelf. ⇒ Rep. Gr. 70
- Unplug or unscrew connections for heated rear window and rear window aerial.
- Press connections against window glass towards centre of vehicle.

Removing damaged rear window

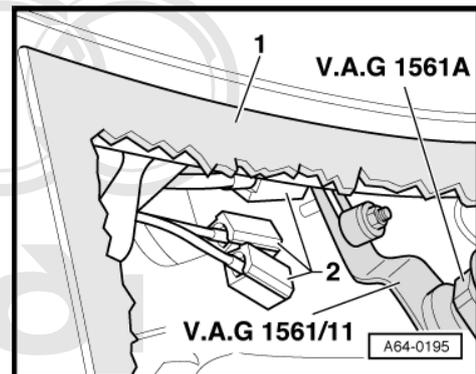
	<p>WARNING</p> <p><i>Always wear safety goggles and leather gloves when removing window.</i></p>
---	---

- Protect body and interior against damage from glass splinters.
- Remove glass fragments down to adhesive sealant.

- Unplug connectors -1- for aerials/amplifiers.
- Unplug connectors for heated rear window.
- Mask flange all round with fabric-reinforced adhesive tape.



- Cut through adhesive sealant (with glass fragments) -1- in window opening with electric cutter and blade -V.A.G 1561/11- (with stop roller).



1.16 Preparations before installing a new window

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Note

If window flange is damaged on removal, re-establish paintwork structure as stipulated in "vehicle paintwork" manual and take anti-corrosion measures if necessary in line with instructions given in "surface treatment/chemical materials" binder.

- Note that different spacers are used for insulating glass and standard glass.
- Bond on spacers at bottom in line with markings on rear window.

- On left side, adhesive stopper strip -2- must be bonded in centre to aerial conductor next to busbar for heated rear window.
- On right side, bond inner edge of strip to outer edge of busbar for heated rear window.

i Note

Any adhesive sealant emerging at the bottom of the rear window when inserting the window into the window opening must be removed immediately.



WARNING

Glass adhesive must never come into contact with aerial conductors or bus bars for heated rear window.

If you are reusing an undamaged window

- When reusing undamaged window, cut back remaining adhesive sealant on window glass and body flange until even, using electric cutter -V.A.G 1561- and scraper -V.A.G 1561/10-. Adhesive sealant must NOT be completely removed.
- The remaining sealant is required as a base for better adhesion of the new adhesive sealant.



WARNING

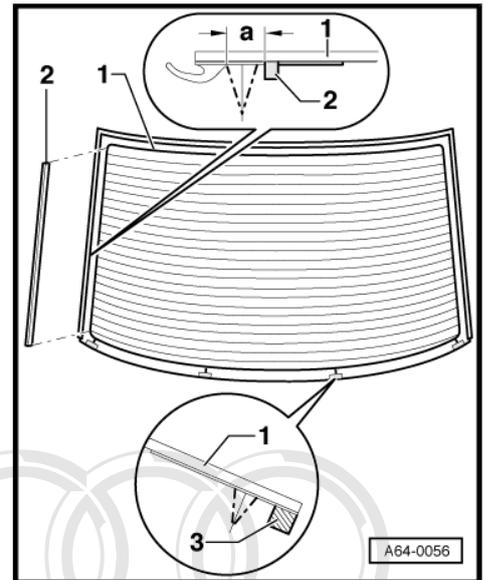
- ◆ *Keep bonding surface clean and free from grease.*
- ◆ *Do not cut back bonding surface until shortly before installation.*
- ◆ *Do NOT apply primer to bonding surface and do NOT use cleaning solution.*

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If installing a new window:

- Clean window in bonding area using D 009 401 04 and apply glass/paint primer D 009 200 02.

Application of primer



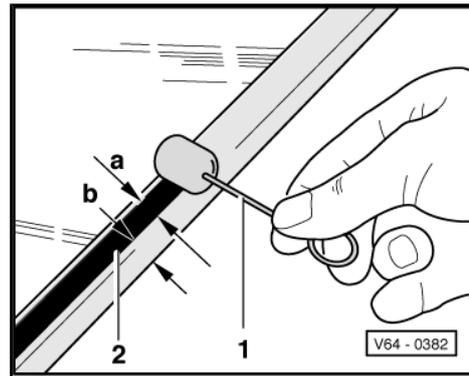


- Use applicator -1- to apply primer -2- all around, spreading it evenly in one stroke.
- Start application with fully soaked felt. Flashing-off time: approx. 10 minutes.
- ◆ Primer width: Dimension a + approx. 20 mm
- Apply primer centrally in relation to adhesive bead.



WARNING

The ceramic coating on the glass is not a primer. The glass must always be primed before applying adhesive sealant.

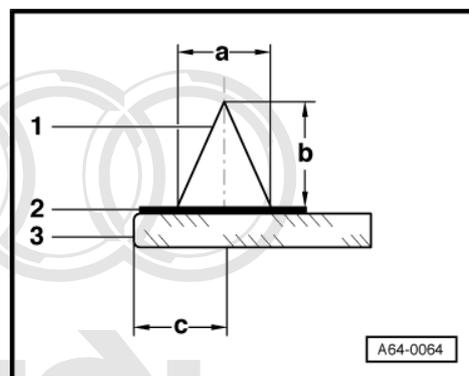


Note

Do not "rework" primer strip until it has dried completely.

Dimensions for applying adhesive

- 1 - Adhesive bead
- 2 - Primer
- 3 - Window
- ◆ Width of bead a = 8 ± 2 mm
- ◆ Height of bead b = $12 + 3$ mm
- ◆ Dimension c = 16 mm



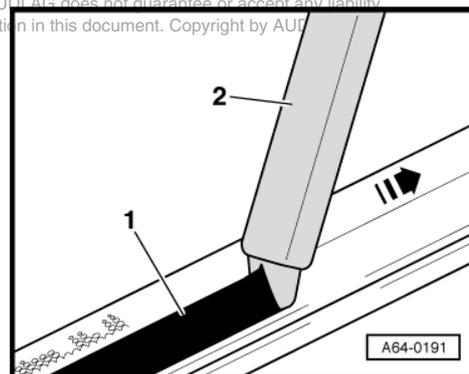
1.17 Installing rear window

- Apply adhesive after completing the preparations.
- Apply full surface of nozzle -2- to window.
- Direction of application -arrow-.



Note

The cross-section of the adhesive bead -1- is determined by the nozzle opening and the rate of application.



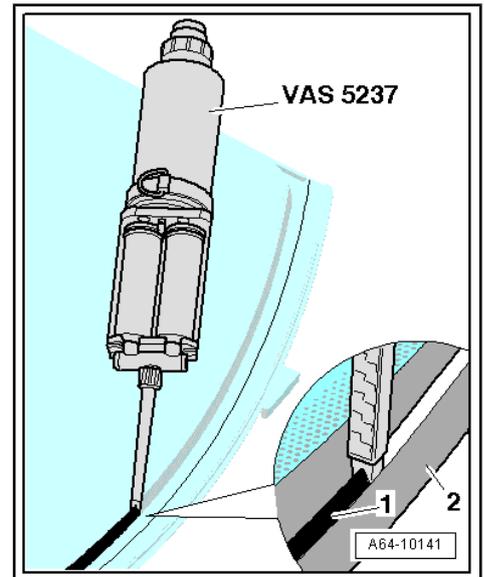
- Apply adhesive sealant all round as shown.
- Observe distance to edge of window (all way around) = 16 mm.
- Install rear window in window opening using two double suction lifters.



WARNING

The rear window must be fitted within 15 minutes, otherwise the adhesive properties of the adhesive sealant will be impaired.

- Align window glass at sides.
- Distance from edge of window to roof frame
⇒ [Item 1 \(page 149\)](#).
- Note minimum drying times ⇒ [page 128](#).



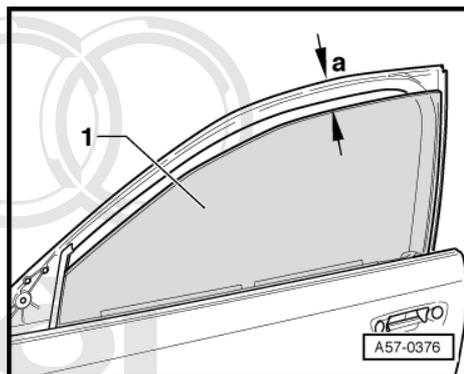
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2 Windows secured by threaded fasteners

2.1 Removing and installing front door window

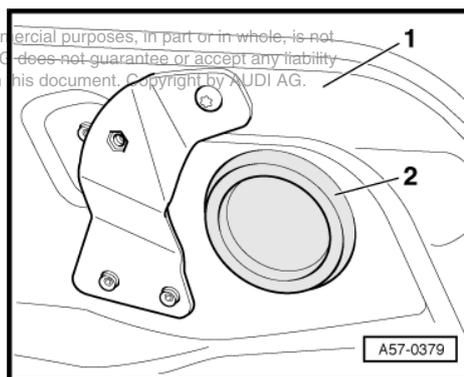
Window frame fitted

- Door trim removed ⇒ Rep. Gr. 70
- Lower window by dimension -a- (approx. 10 cm).
- Remove window regulator motor ⇒ [page 164](#) .



- Remove plastic covers -2- from mounting panel -1-.

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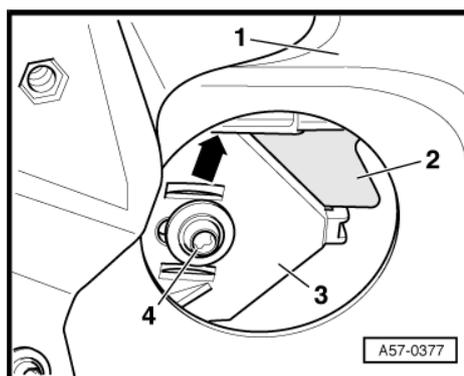


- Unscrew Torx bolts -4-.
- Push window regulator drivers -3- down by hand.

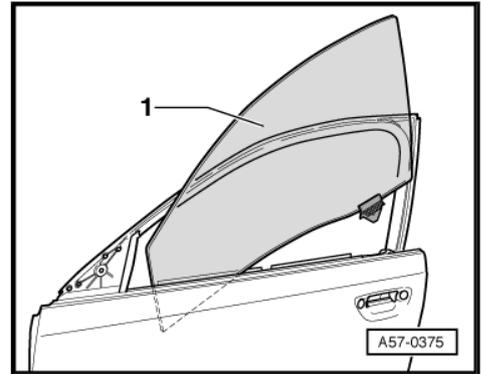


Note

- ◆ The window regulator can also be operated using manual window regulator drives (left and right) from rear doors of Audi A4 model 2001 > with window crank.
- ◆ These drives fit on threaded pins of window regulator.

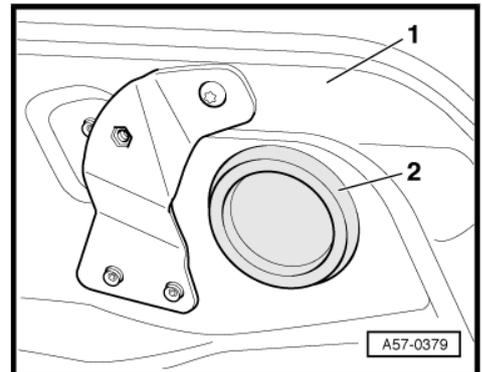


- Push down front part of door window as shown.
- Lift window at an angle out of window frame.
- Install in reverse order of removal.



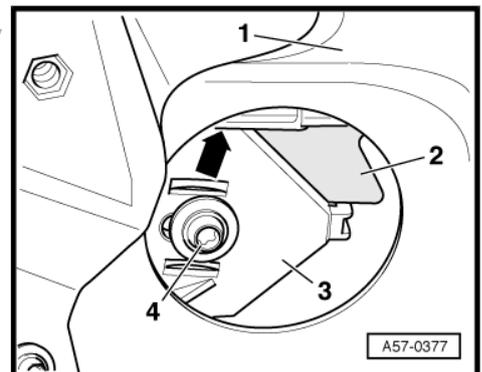
Cover for mounting panel

- Pull out cover -1- when removing mounting panel -2- or door window.



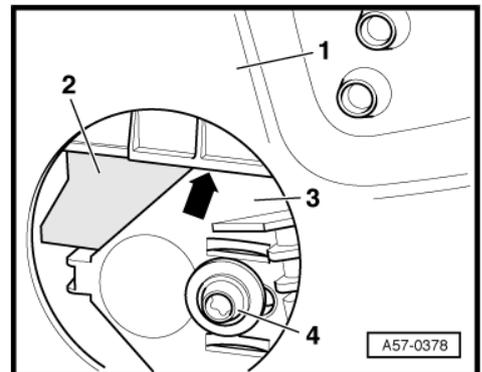
Driver (front)

- Detach mounting -2- for door window from driver -3- when removing door window or mounting panel -1-.
- When installing, tighten Torx bolt -4- to 4 Nm.
- When installing, make sure window mounting -2- is resting on top edge of driver -3-.



Driver (rear)

- Unscrew door window mounting -2- from driver -3- when removing door window or mounting panel -1-.
- When installing, tighten Torx bolt -4- to 4 Nm.
- When installing, make sure window mounting -2- is resting on top edge of driver -3-.

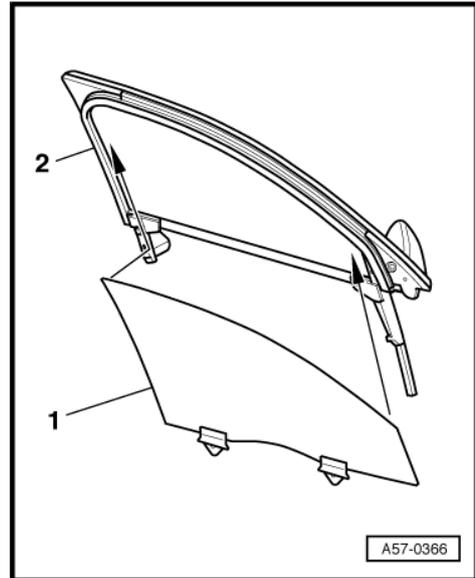


Window frame fitted



Proceed as follows if window frame has been removed.

- Slide door window upwards into guides at window frame.

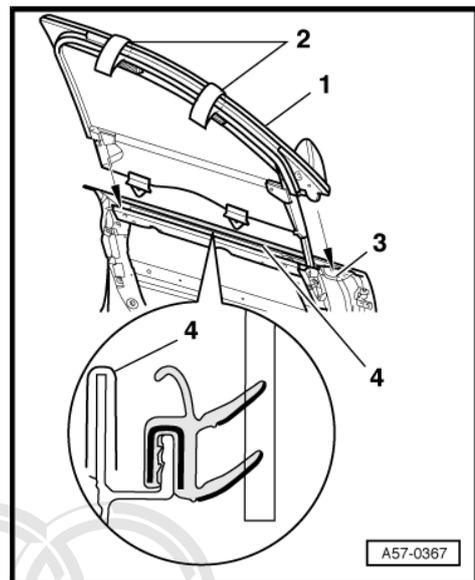


- Use adhesive tape -2- to secure window at a distance of approx. 10 cm from top of window frame -1-.



Note

Take care not to crush window slot seal when inserting window frame.



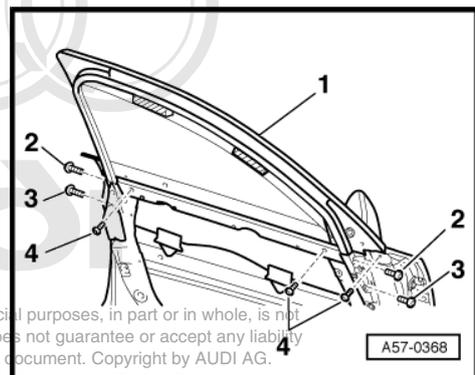
- Insert window frame with door window into door from above
- Start by loosely screwing in fitted flange bolts -2-.
- Height of window frame is already set by fitted flange bolts -2-.
- Screw in remaining bolts loosely.



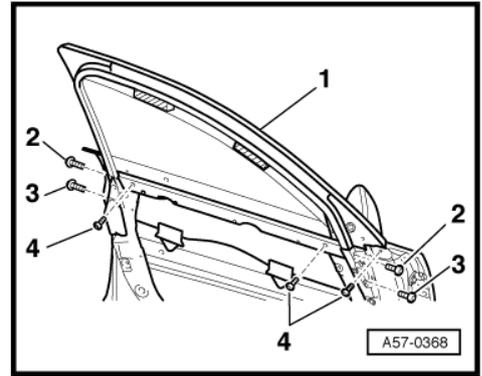
Note

Observe tightening sequence for bolts.

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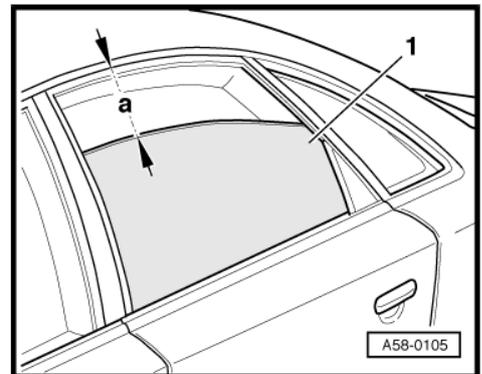


- Tighten bolts -2- at front and then at rear to 32 Nm.
- Next, tighten bolts -3- at front and then at rear to 32 Nm.
- Finally, tighten bolts -4- from front to rear to 10 Nm.

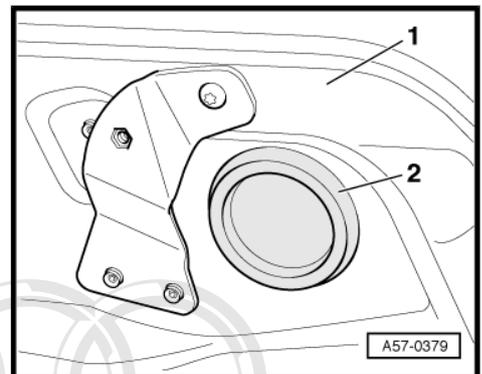


2.2 Removing and installing rear door window

- Door trim removed \Rightarrow Rep. Gr. 70
- Lower window by distance -a- = approx. 10 cm and secure with adhesive tape to stop it dropping.
- Remove window regulator motor.



- Remove plastic covers -2- from mounting panel -1-.



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- Unscrew Torx bolts -4-.
- Remove window regulator motor.
- Push window regulator drivers -3- down by hand.
- Unplug all electrical connectors.
- Remove mounting panel ⇒ [page 63](#) .
- Remove window frame ⇒ [page 58](#) .
- Pull window downwards out of guides.
- Install in reverse order of removal.

Removing window regulator motor

- Door trim removed ⇒ Rep. Gr. 70 .



Note

- ◆ *Window regulator motor can be removed or installed with motor or side window in any position.*
- ◆ *Unplug connectors before removing motor.*

- Unscrew Torx bolts -2- -T30- and detach motor.

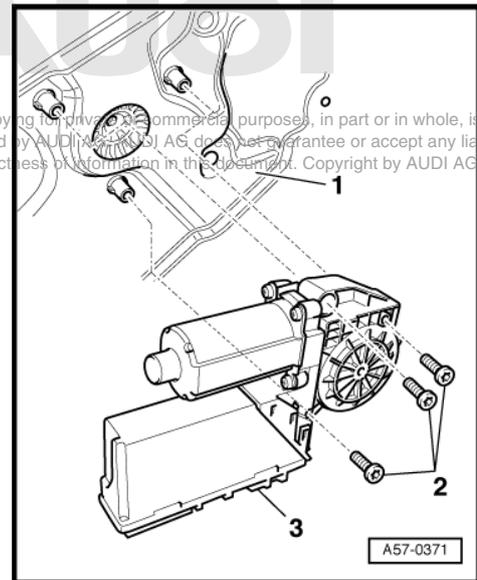
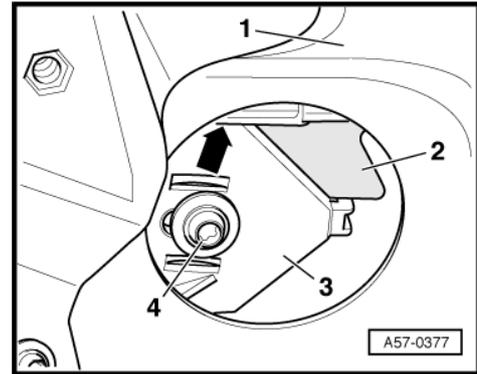
Installing

- When installing, make sure threaded pins -arrows- are engaged in inner door panel.
- Fit window regulator motor -3- and secure with bolts -2-.
- Tightening torque: 3.5 Nm



Note

- ◆ *After installing the electric motor and attached wiring, first turn the ignition on and then off again.*
- ◆ *Then raise door window as far as it will go and keep window regulator switch pulled for approx. 2 seconds.*
- ◆ *The window regulator is now in the basic setting and the opening/closing function is activated.*



66 – Exterior equipment

1 Mouldings and panels

1.1 Removing and installing roof joint moulding

1 - Roof joint moulding

- Removing:
- Starting at rear, prise carefully out of roof joint.
- Installing:
- Attach sealing strip -2- to roof joint moulding -1-.
- Apply lubricant (e.g. soap solution) to sealing strip.
- Push roof joint moulding under trim cover, starting at windscreen -3- and gradually push half-way into roof joint.
- Then insert roof joint moulding below trim cover at rear window, and press into roof joint completely.

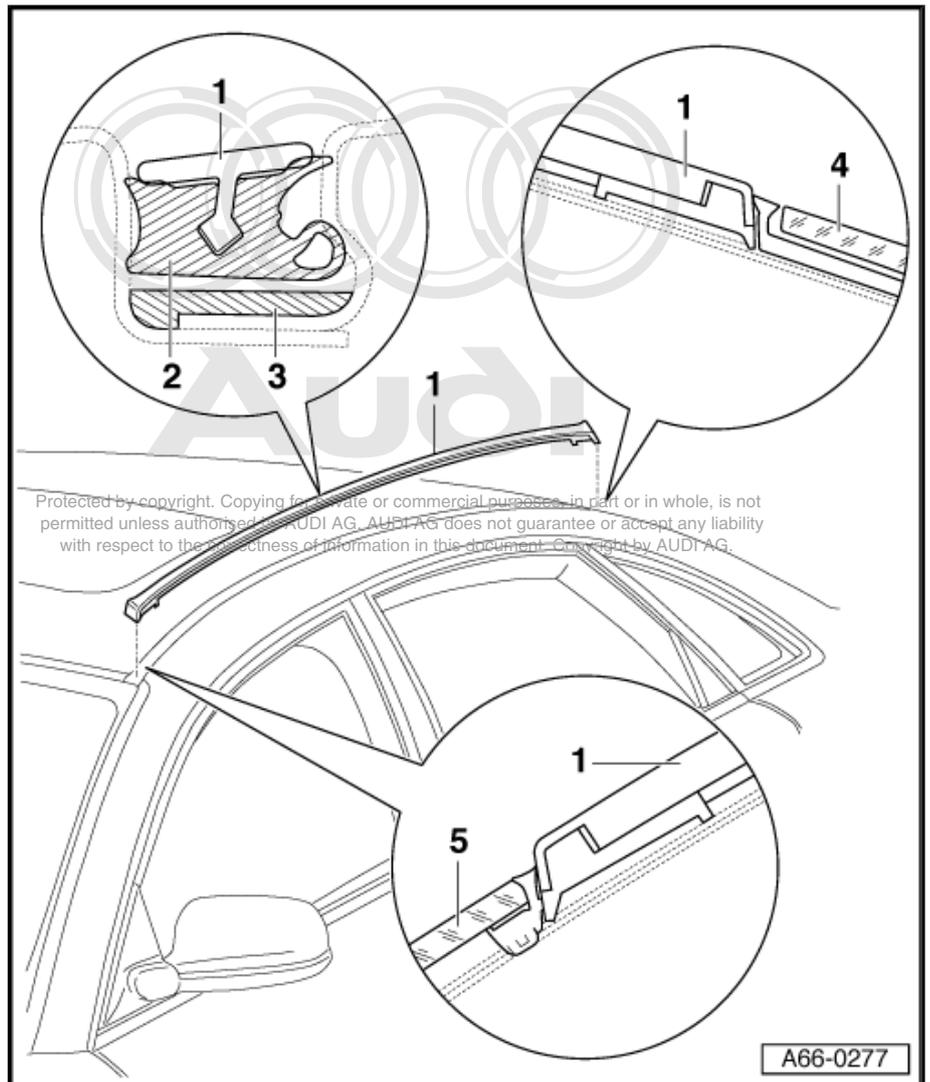
2 - Sealing strip

- Apply lubricant before fitting.

3 - PVC seal

4 - Windscreen

5 - Rear window



1.2 Removing and installing roof trim strip



Note

Removal of roof trim strip does not involve taking out side window.



1 - Trim strip

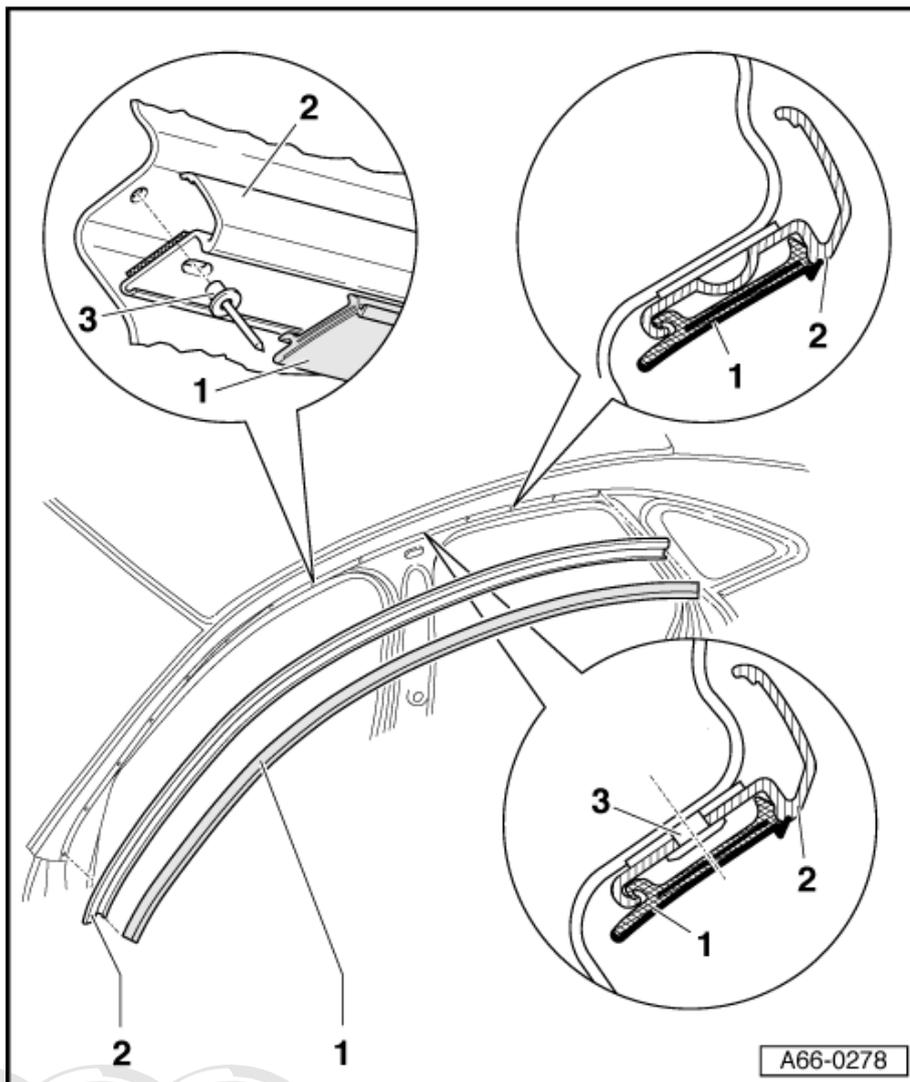
- Coat edges with lubricant to facilitate installation.
- Press into roof trim strip, working from front to rear.

2 - Roof trim strip

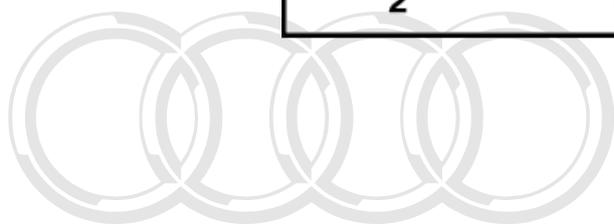
- Trim removed
- Door seals detached in area of roof trim strip.
- Prise trim strip -1- out of roof trim strip.
- Drill heads off pop rivets -3-, knock out shanks and detach roof trim strip.

3 - Pop rivet

- 14x



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1.3 Trim strip for D-pillar

1 - D-pillar trim

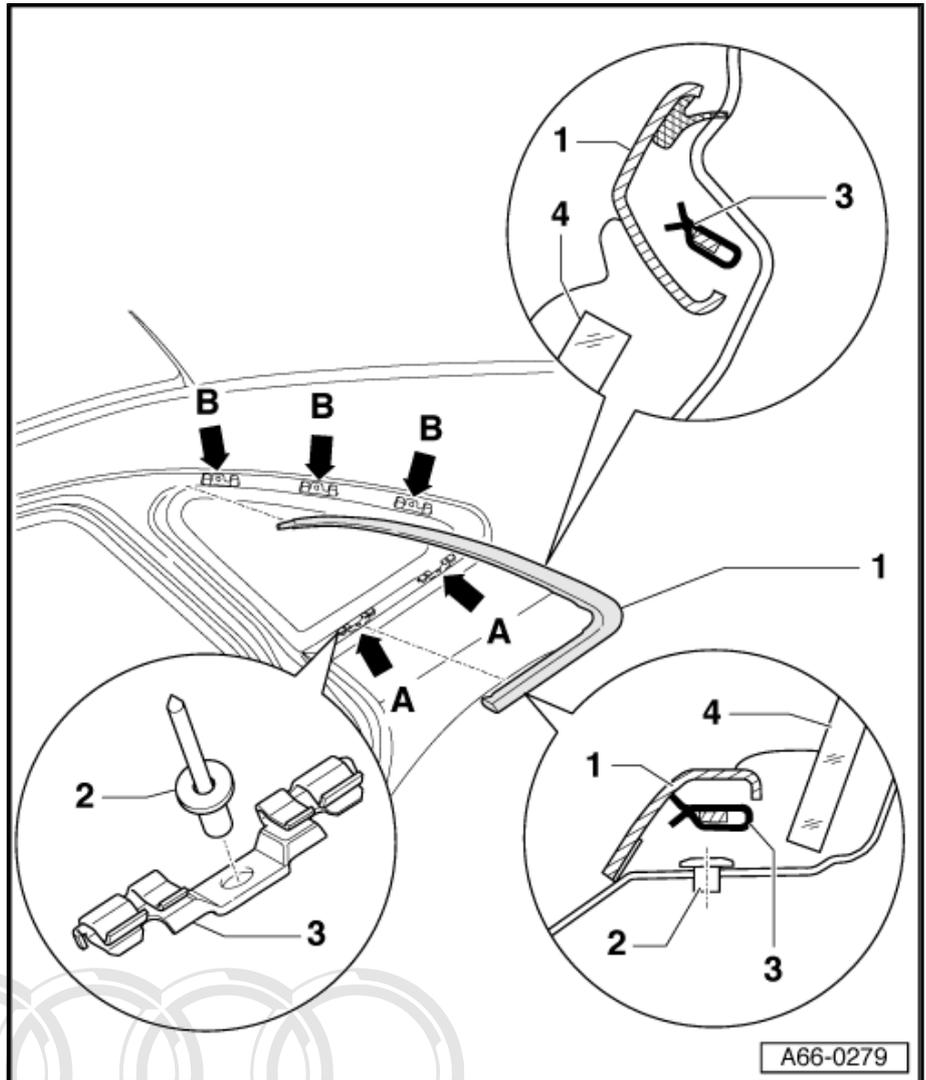
- C-pillar trim removed
- To remove, start by carefully prising out of fasteners at bottom of C-pillar.
- Then prise out of fasteners -arrows- at D-pillar and pull out of roof trim strip.

2 - Pop rivet

3 - Retaining clips

- Riveted to D-pillar/bottom of side panel

4 - Side window



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1.4 Removing trim strip

1 - Front trim strip

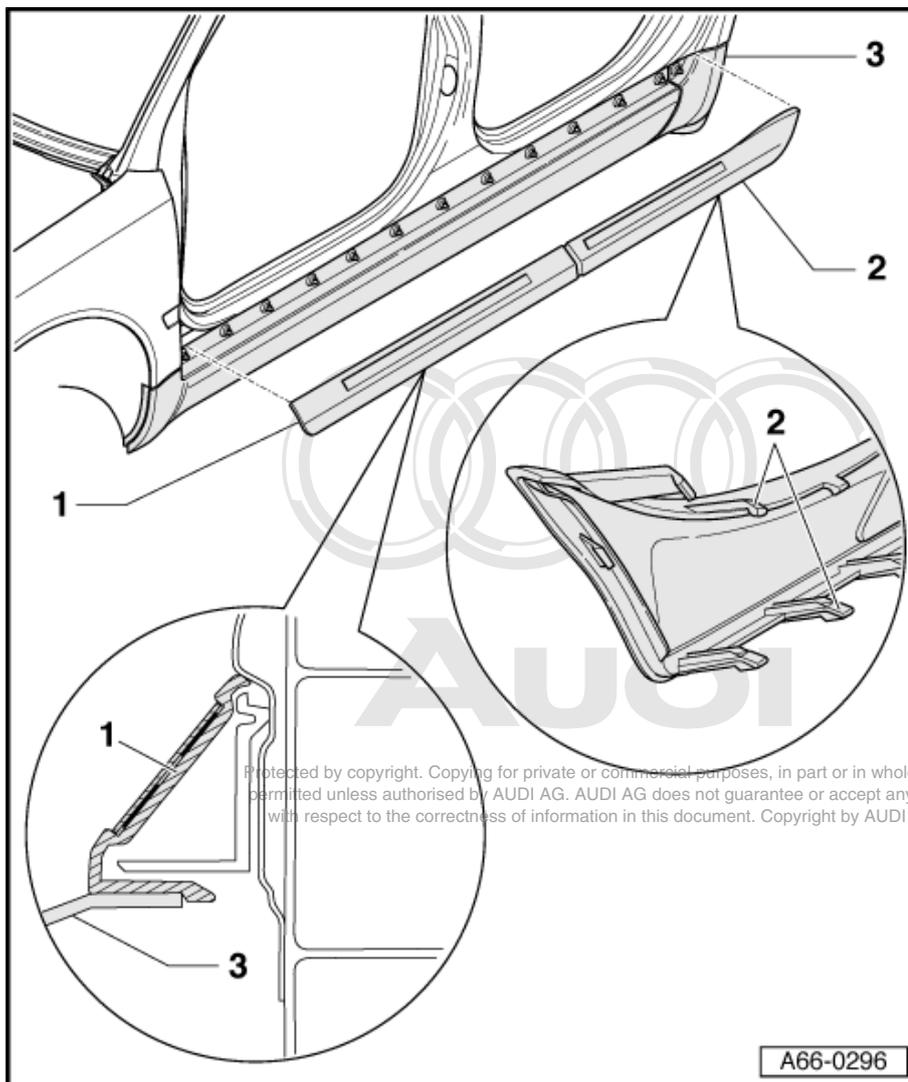
- ❑ First unclip at top and then pull sideways out of side member trim at bottom.

2 - Trim strip (rear)

- ❑ First unclip at top and then pull sideways out of side member trim at bottom.

3 - Side member trim

- ❑ Removing ⇒ [page 169](#)



1.5 Removing side member trim

1 - Side member trim (rear)

2 - Hexagon nut

- 4 Nm
- 12x on each side

3 - Fitted bolt

- 8 Nm
- Only fitted at this position

4 - Bolt

- 1.5 Nm

5 - Side member trim

- Before removing, detach cover (front and rear) ⇒ [page 168](#).
- To remove, unscrew bolts from underside and then unscrew nuts on side.
- Also unscrew bolt -6- for wing bracket.
- Pull side member trim sideways off pins and then pull forwards out of rear side member trim.

6 - Bolt

- 1.5 Nm

7 - Bracket for wing

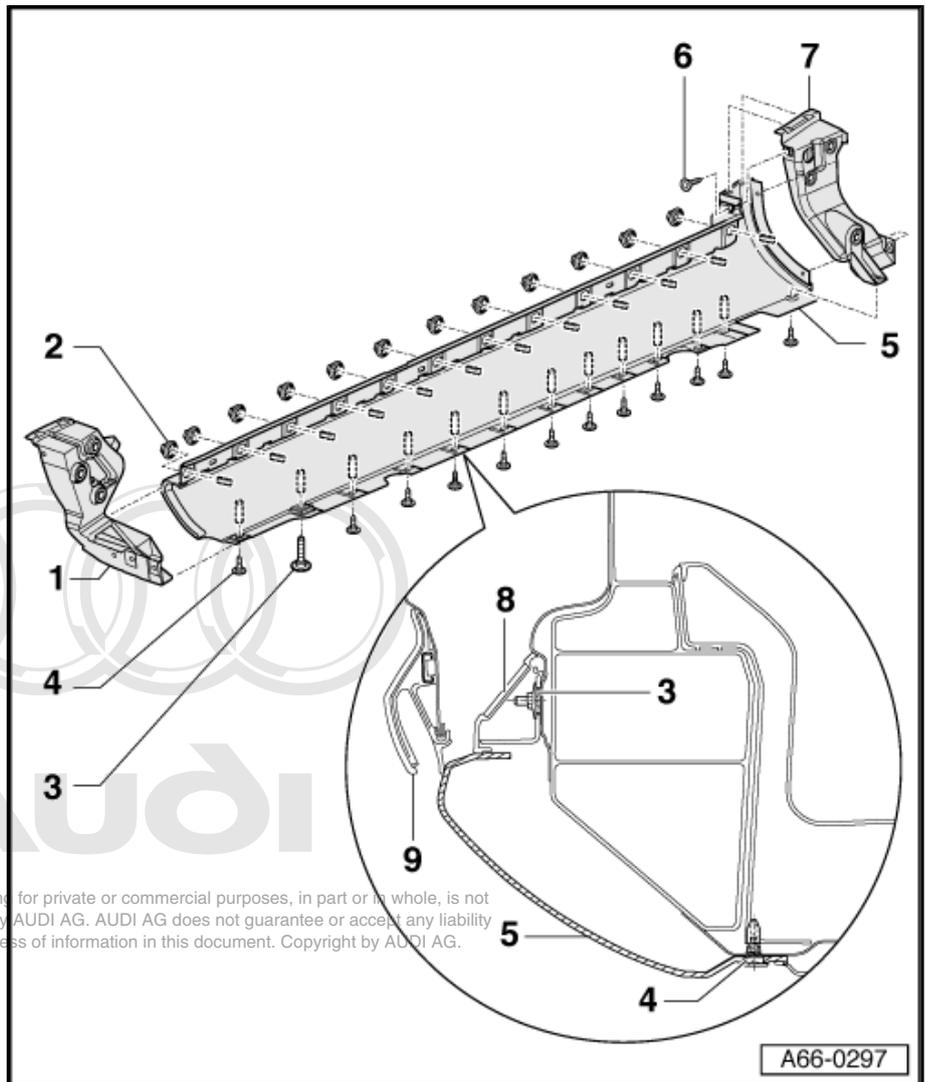
- Removing ⇒ [page 169](#)

8 - Cover for side member trim

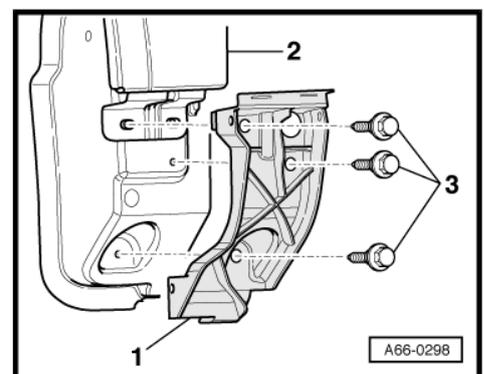
- Removing ⇒ [page 168](#)
- Trim cover

9 - Trim cover for front door

-



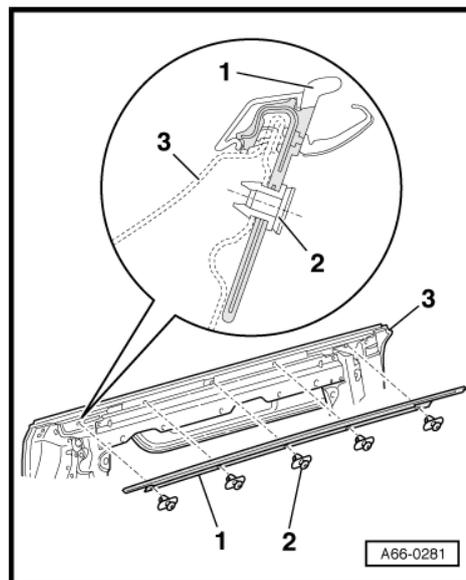
Bracket for wing



1.6 Window slot trim panel (front)

- Remove door trim ⇒ Rep. Gr. 70 .

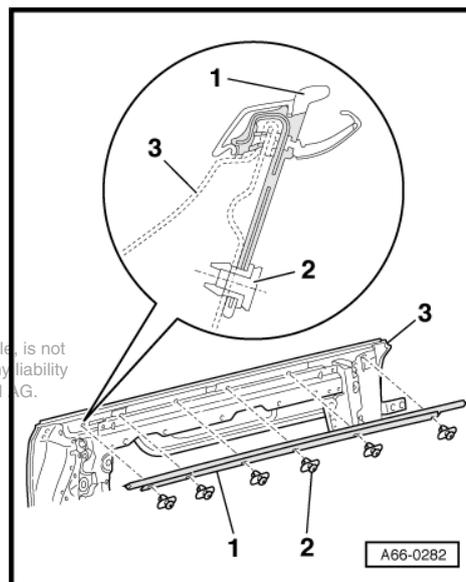
- Remove mounting panel and window frame ⇒ [page 39](#) .
- Remove clips -2-.
- Detach window slot trim panel -1-.
- Install in reverse order of removal.



1.7 Door window slot trim panel (rear)

- Remove door trim ⇒ Rep. Gr. 70 .
- Remove window regulator and window frame ⇒ [page 58](#) .
- Remove clips -2-.
- Detach window slot trim panel -1-.
- Install in reverse order of removal.

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1.8 Trim cover for front door

1 - Trim cover for front door

- ❑ To remove, unscrew bolts -2- and -4-.
- ❑ Pull trim cover to rear out of fastener and detach downwards and to side from door.
- ❑ To install, slide bottom of trim cover over edge of door, then push forward to engage in fasteners and secure using bolts -2- and -4-.

2 - Bolt (front)

- ❑ 1 Nm

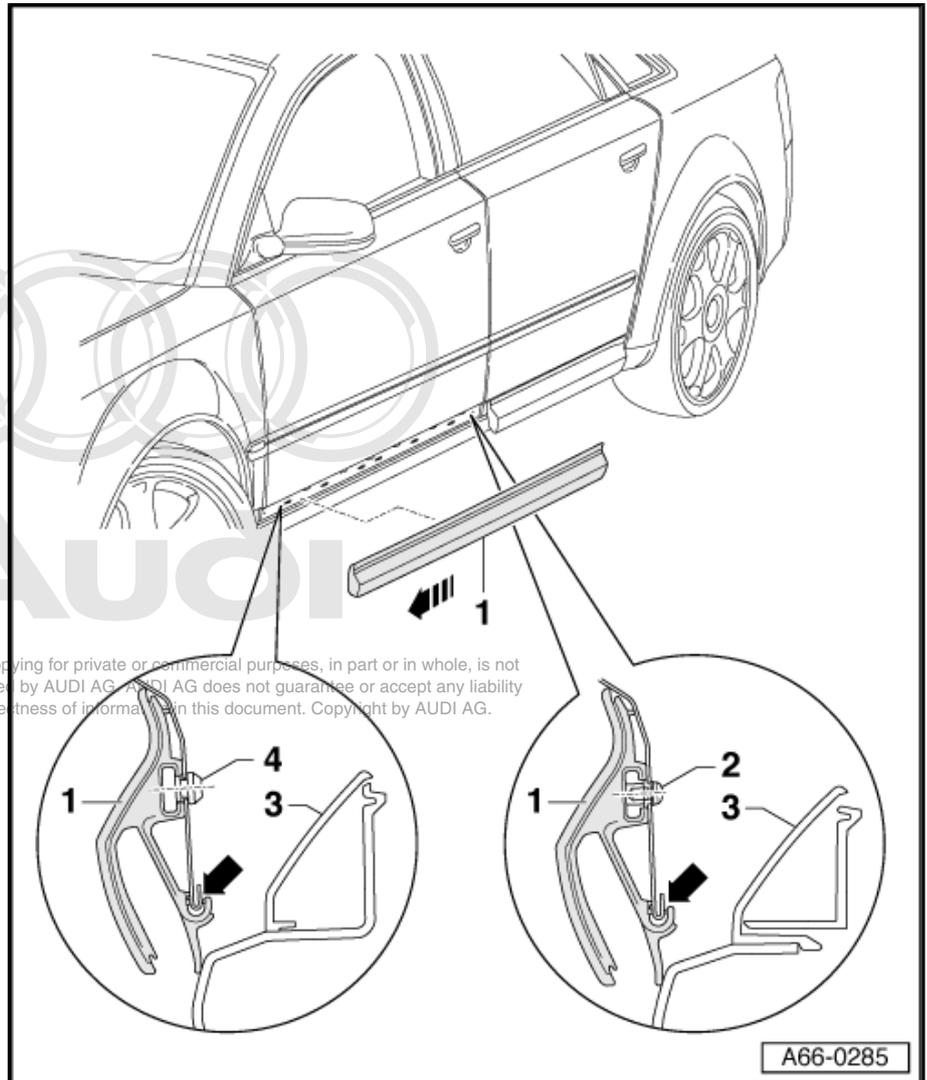
3 - Cover for side member trim

- ❑ Removing
 ⇒ [Item 1 \(page 168\)](#)

4 - Bolt (rear)

- ❑ 1 Nm

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1.9 Trim cover for rear door

1 - Trim cover for rear door

- To remove, unscrew bolts -2- and -4-.
- Push cover forwards out of catch and take cover off door to the side (downwards).
- When installing, slide bottom of cover over edge of door, then slide towards back to engage in fasteners and secure using bolts -2- and -4-.

2 - Bolt (front)

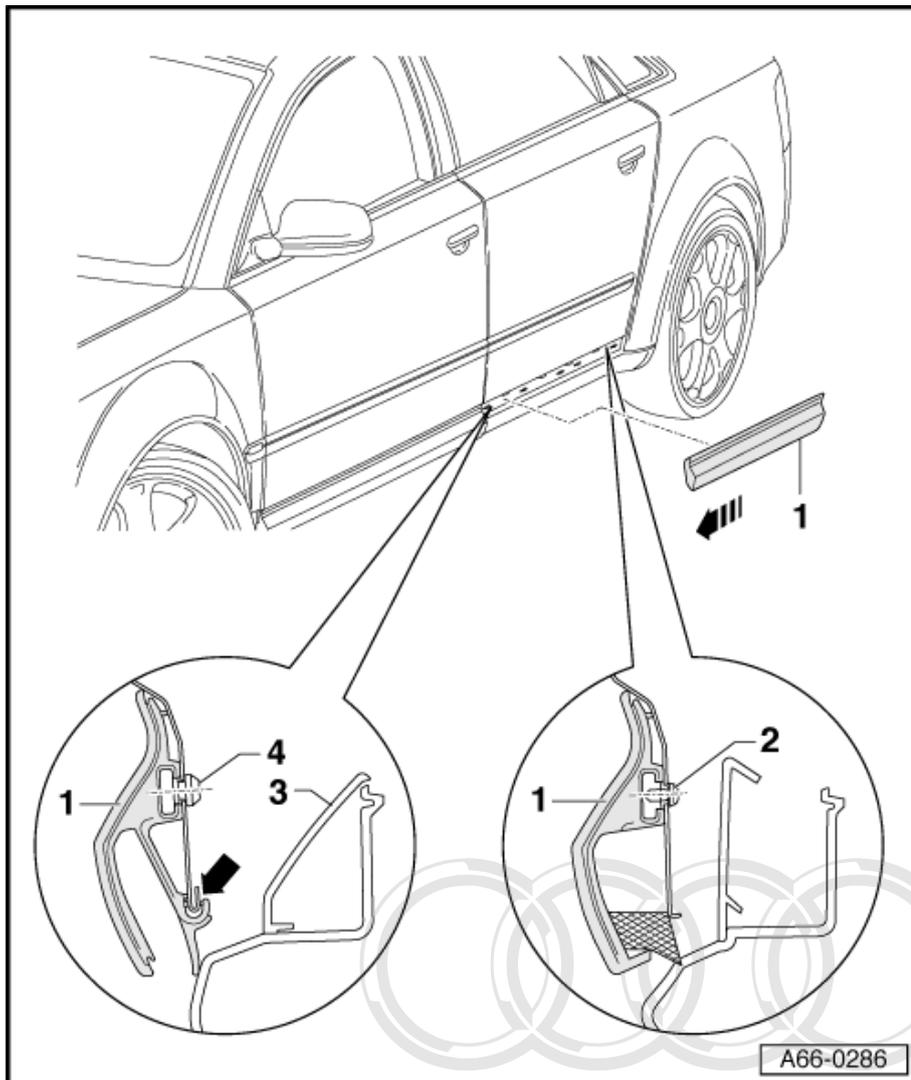
- 1 Nm

3 - Cover for side member trim

- Removing
⇒ [Item 2 \(page 168\)](#)

4 - Bolt (rear)

- 1 Nm



1.10 Renewing protective side strips



Note

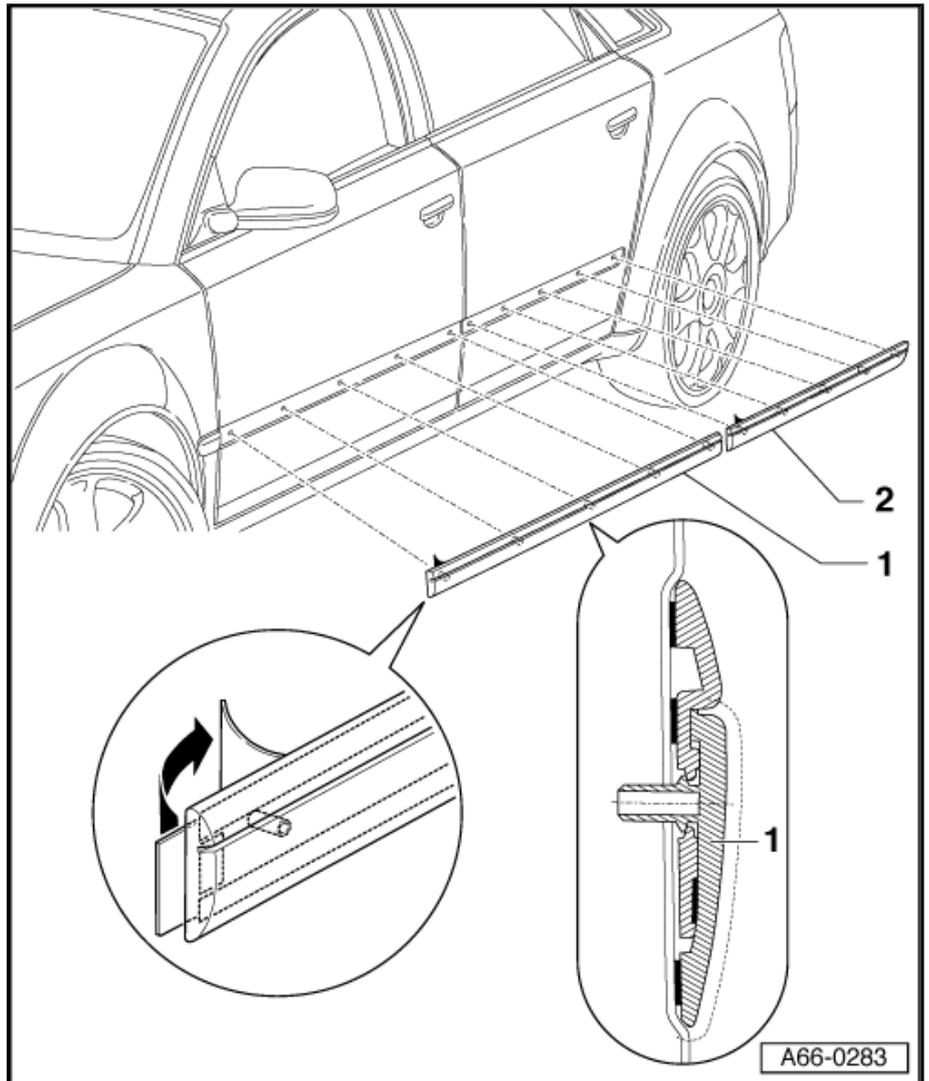
Non-destructive removal is not possible.

Audi

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1 - Protective strip (front)

- Removing:
- To remove, heat protective strips -1- and -2- with a hot-air blower and detach from door.
- Installing
- Surfaces to be bonded must be clean and free from grease.
- Clean body panel with petrol, treat with silicon remover and rub dry.
- Protective strips may only be bonded on at room temperature.
- This involves allowing vehicle and protective strips to adjust to ambient temperature for at least 2 hours prior to performing work.
- Once the backing foil has been removed, the protective strip must be fitted on the vehicle within 90 minutes.
- Detach backing from double-sided adhesive strip shortly before fitting.
- Attach protective strip to body panel, working from front to rear.
- Heat protective strip to approx. 40°C with a hot air blower and press or roll on firmly.
- Vehicle must be kept at ambient temperature for 4 hours after bonding on trim strip.



2 - Protective strip (rear)

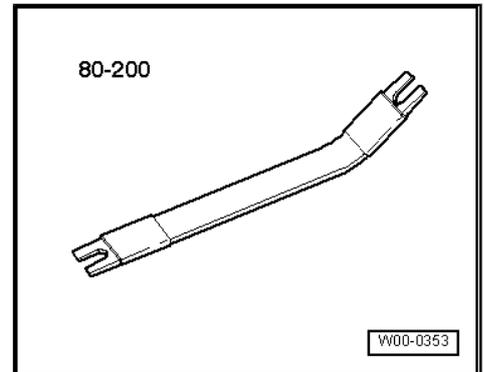


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2 Exterior mirrors

Special tools and workshop equipment required

- ◆ Removal lever -80 - 200-



2.1 Removing and installing exterior mirror

1 - Mirror housing

- Removing ⇒ [page 176](#)

2 - Mirror adjustment unit

- Before removing, detach door trim ⇒ Rep. Gr. 70 .
- Remove mounting panel and window frame ⇒ [page 39](#) .
- To remove, prise off mirror glass, unplug connectors for mirror heating, unscrew cross-head screws -6- and take mirror adjustment unit out of mirror housing -1-.

3 - Mirror glass

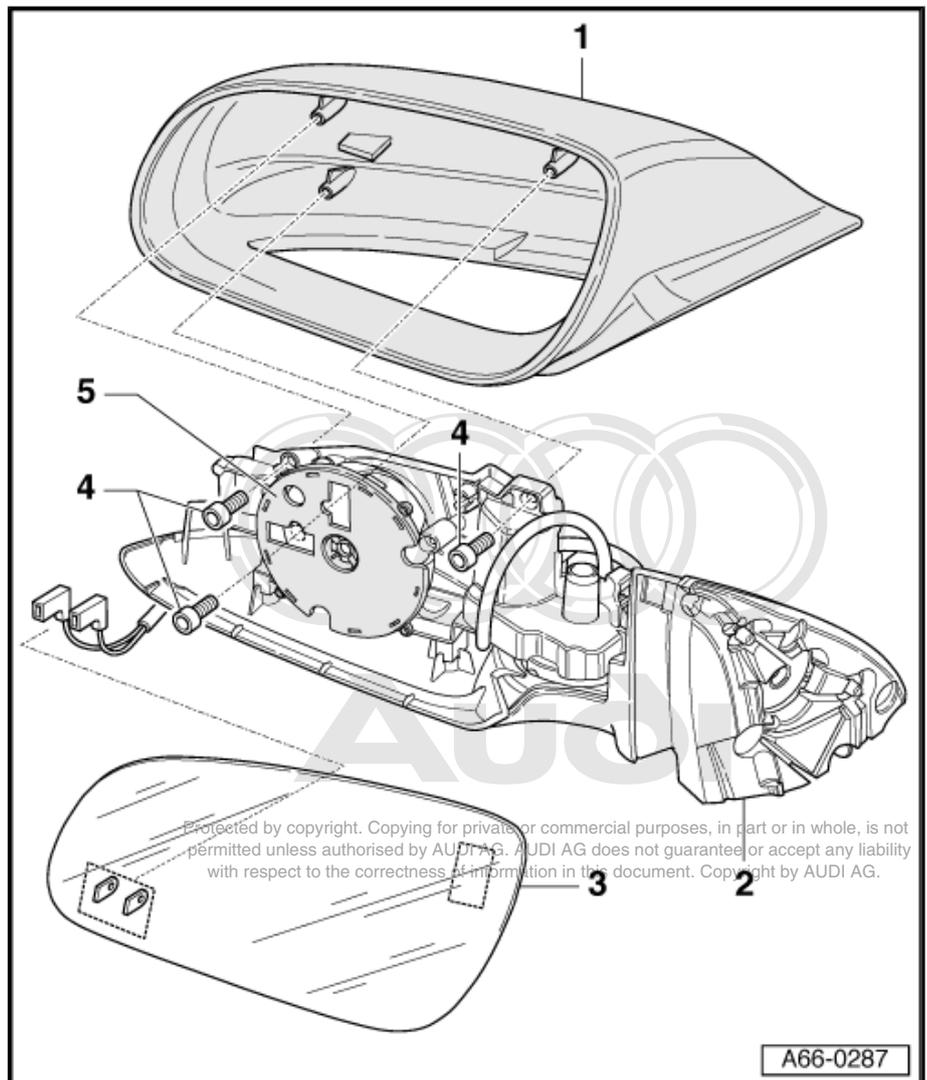
- To unclip use removal lever -80 - 200- .
- Use fabric-backed adhesive tape to protect mirror housing against damage at top and bottom.
- Press off mirror glass at bottom first and then at top.

4 - Cross-head bolt

- 1 Nm

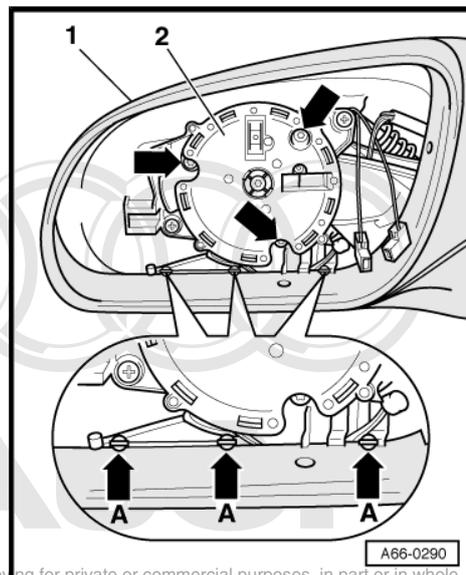
5 - Control motor

- Removing ⇒ [page 176](#)



2.2 Removing and installing adjustment motor

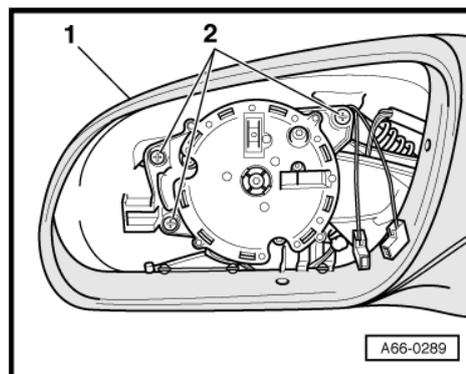
- Remove mirror glass.
- Unscrew Torx bolts -arrows-.
- Unplug connector to motor.
- Take motor out of housing.



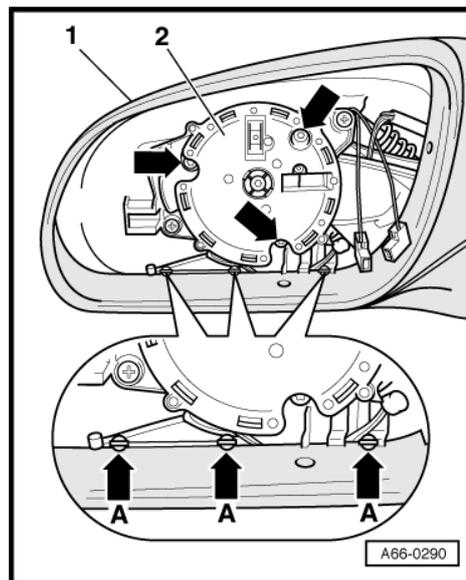
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2.3 Removing and installing mirror housing

- Remove mirror glass.
- Remove bolts -2-.

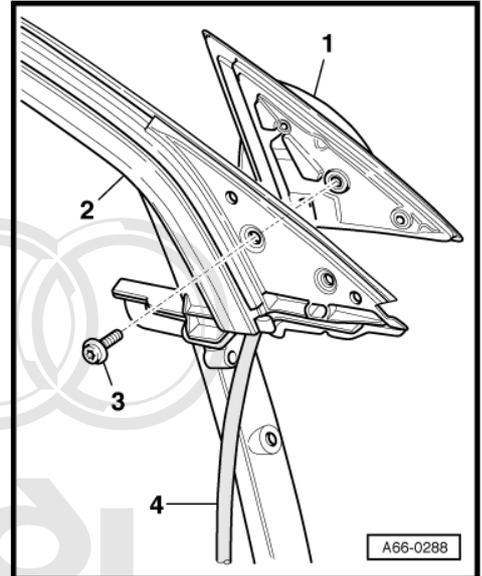


- Carefully release mirror housing at retainer tabs -arrows-.
- Lift mirror housing sideways off mirror adjustment unit.



2.4 Removing and installing mirror adjustment unit

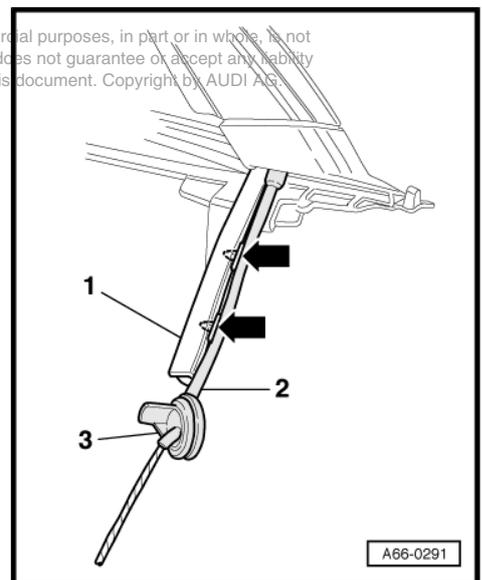
- Door trim removed ⇒ Rep. Gr. 70
- Mounting panel and window frame removed ⇒ [page 39](#)
- Unscrew bolt -3-.
- Unplug electrical connector at window regulator control unit.
- Pull cable together with grommet through door shell and unclip from window frame ⇒ [page 177](#)
- Pull cable out of door and detach exterior mirror.
- Install in reverse order of removal.



Cable routing for exterior mirror

- Window frame -1- removed
- On installing mirror, clip cable -2- into holes -arrows- in window frame.
- Grommet -3- must be inserted in door shell from outside.

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3 Radiator grille

3.1 Removing and installing radiator grille

1 - Torx bolts

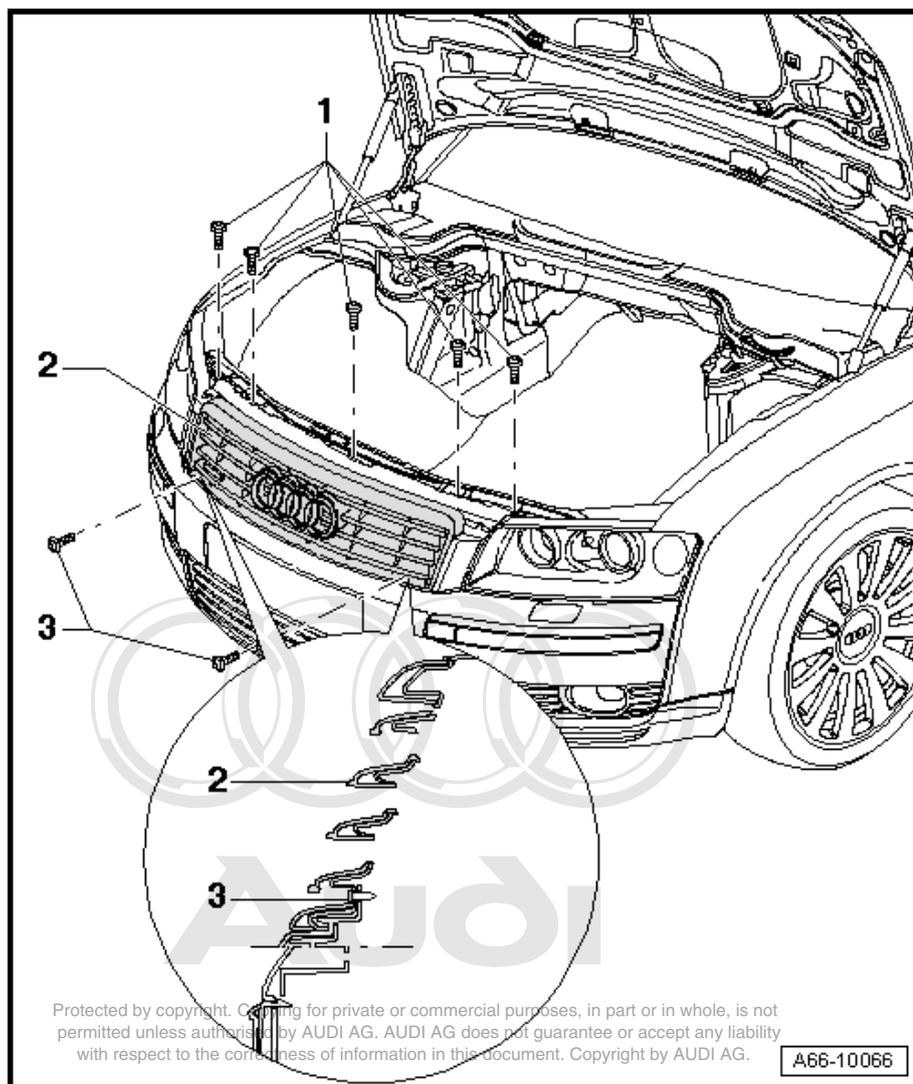
- 2 Nm

2 - Radiator grille

- To remove, unscrew bolts -3- and -4-.
- Fold radiator grille forwards out of bumper cover.

3 - Bolt

- 2 Nm



4 Trim on underbody

4.1 Removing and installing noise insulation

1 - Noise insulation

- To remove, unscrew bolts -2-.
- Release quick-release fasteners (front, centre and rear) and detach noise insulation.

2 - Quick-release fastener

3 - Noise insulation panel (centre)

- Equipment version

4 - Noise insulation panel (rear)

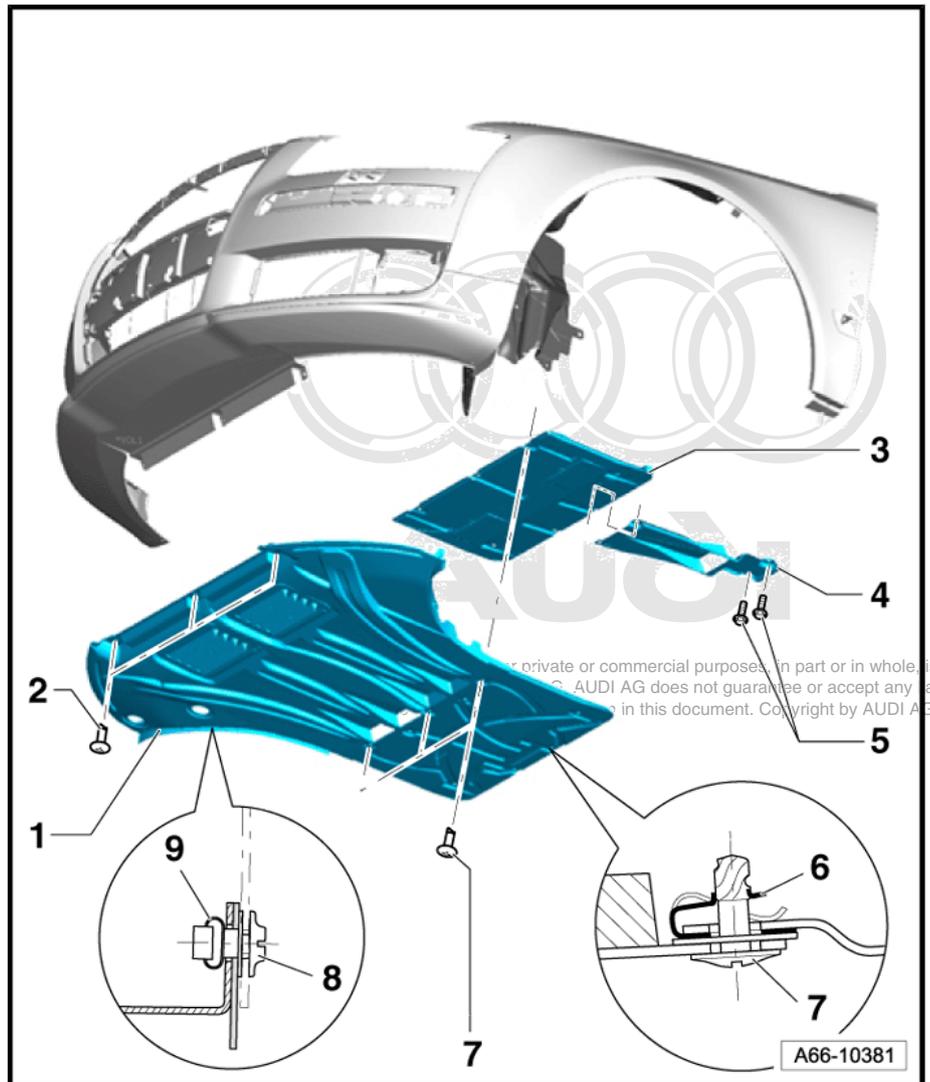
- Equipment version

5 - Bolt

- 2 Nm

6 - Speed nut

7 - Quick-release fastener



4.2 Front underbody trim - exploded view

1 - Underbody trim (centre right)

2 - Nut

□ 2.5 Nm

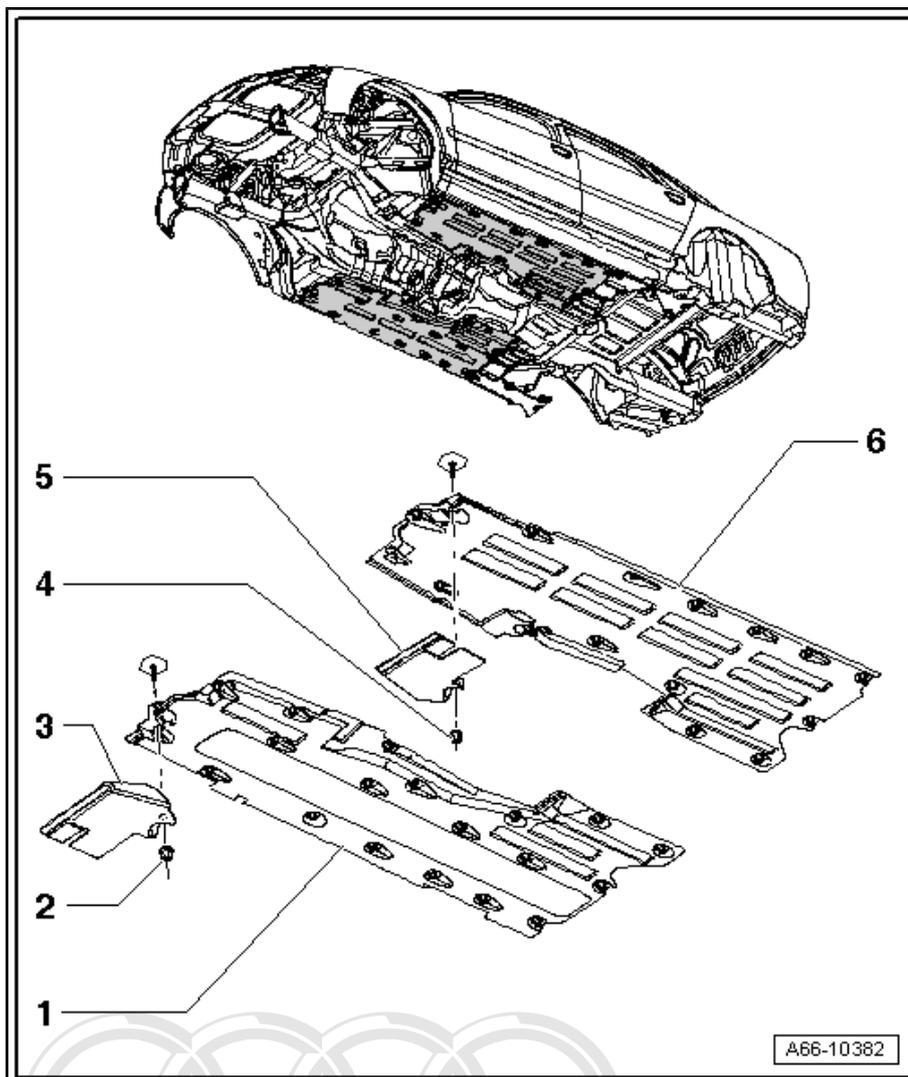
3 - Underbody trim (front right)

4 - Nut

□ 2.5 Nm

5 - Underbody trim (front left)

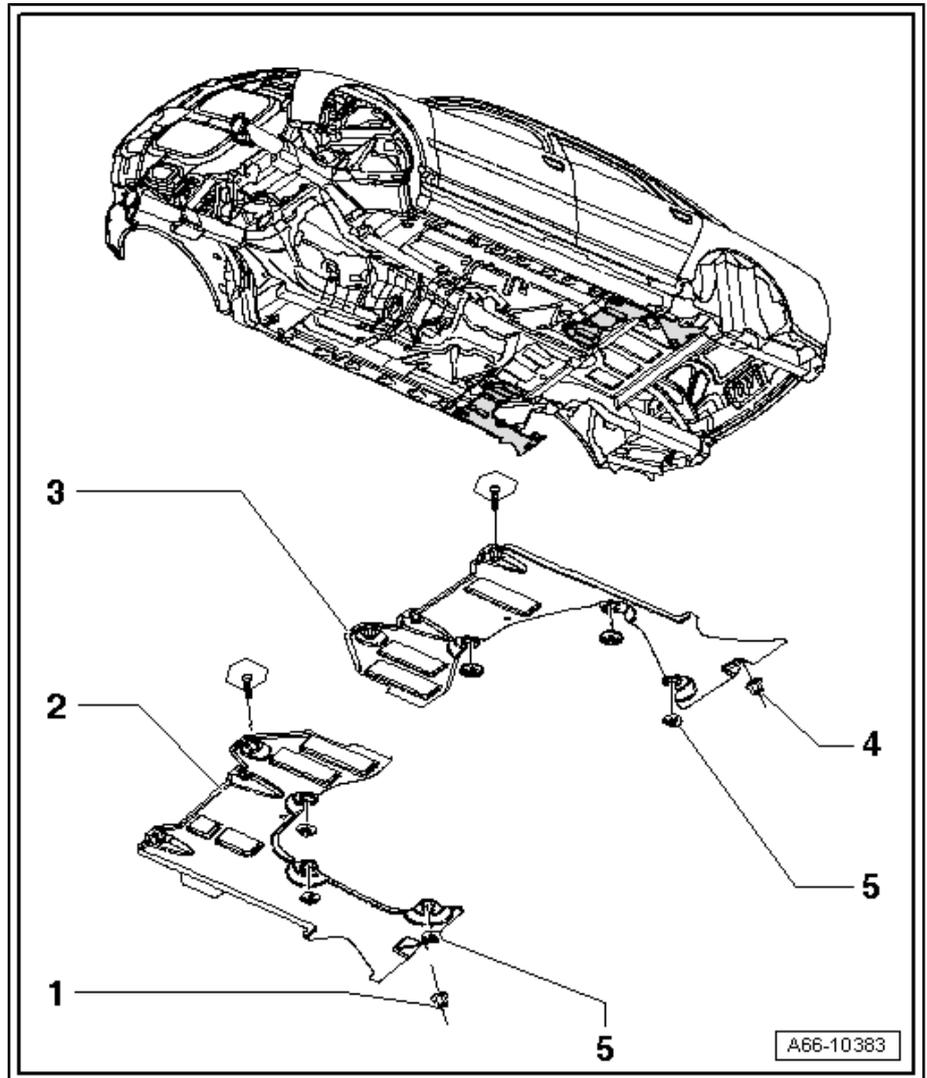
6 - Underbody trim (centre left)



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4.3 Rear underbody trim - exploded view

- 1 - Nut
 - 2.5 Nm
- 2 - Underbody trim (rear right)
- 3 - Underbody trim (rear left)
- 4 - Nut
 - 2.5 Nm
- 5 - Clip
 - Pushed onto stud



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4.4 Rear heat shield - exploded view

1 - Heat shield (rear right)

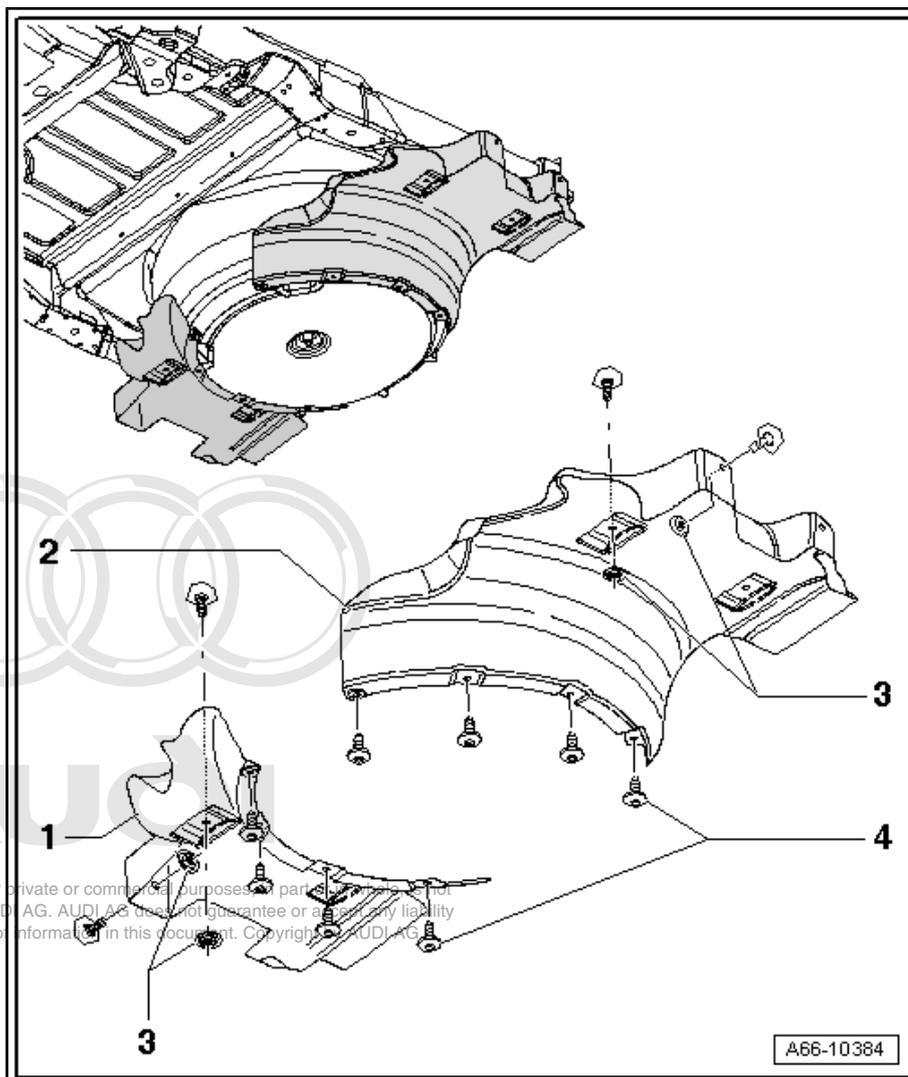
2 - Heat shield (rear left)

3 - Nut

□ 2.5 Nm

4 - Bolt

□ 2 Nm



5 Removing and installing wheel housing liner

5.1 Front wheel housing liner (front section)

Note

- ◆ *Front wheel housing liner consists of two parts.*
- ◆ *Both parts can be removed and installed separately.*
- ◆ *Pay attention to engine-specific wheel housing liners.*

Attachment points

1 - Front wheel housing liner (front section)

- Front wheel removed

2 - Self-tapping screw

- 1 Nm

3 - Self-tapping screw

- 1.5 Nm

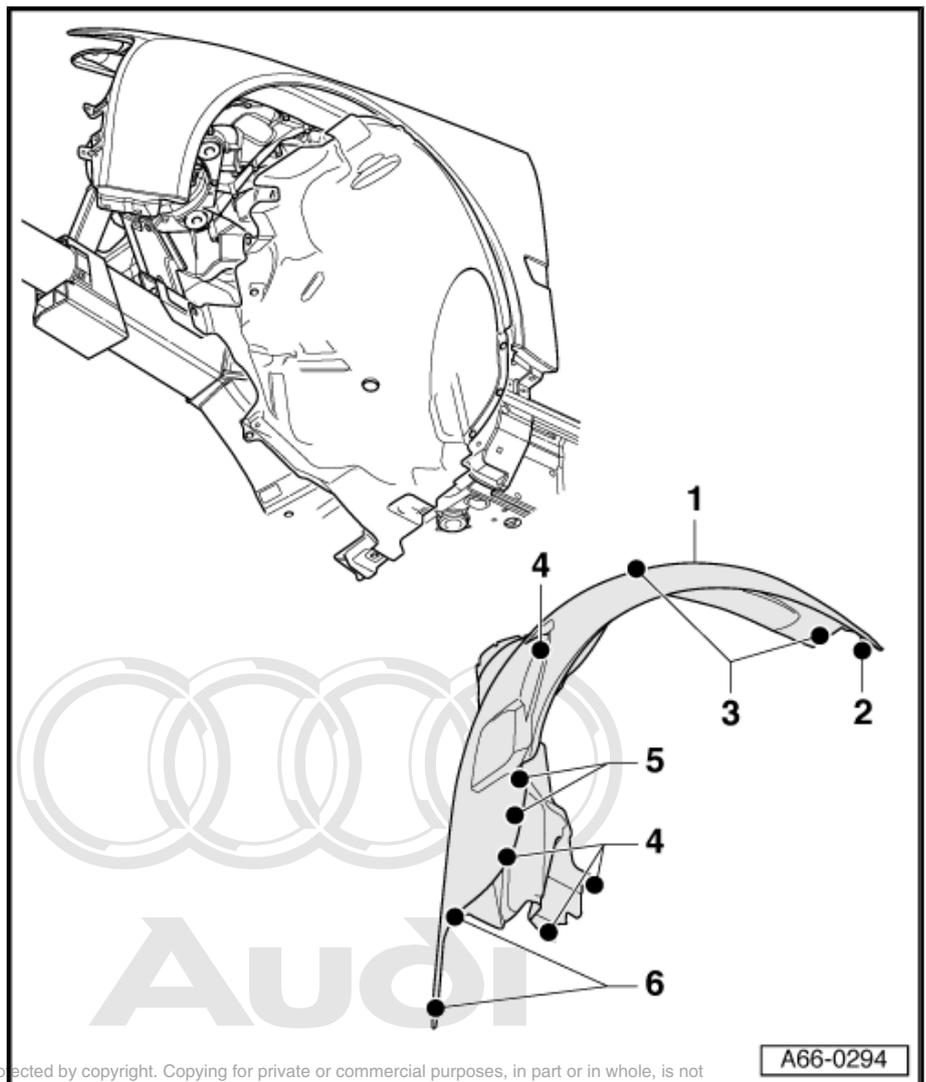
4 - Bolt for plastic components

- 1.5 Nm

5 - Fasteners

- Only press in locking pins approx. 5 mm and pull out released fastener.
- Push locking pin back before installing
- After installing, press in locking pin until it is flush

6 - Quick-release bolt



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5.2 Front wheel housing liner (rear section)

Attachment points



1 - Front wheel housing liner (rear section)

- Front wheel removed

2 - Self-tapping screw

- 1.5 Nm

3 - Self-tapping screw

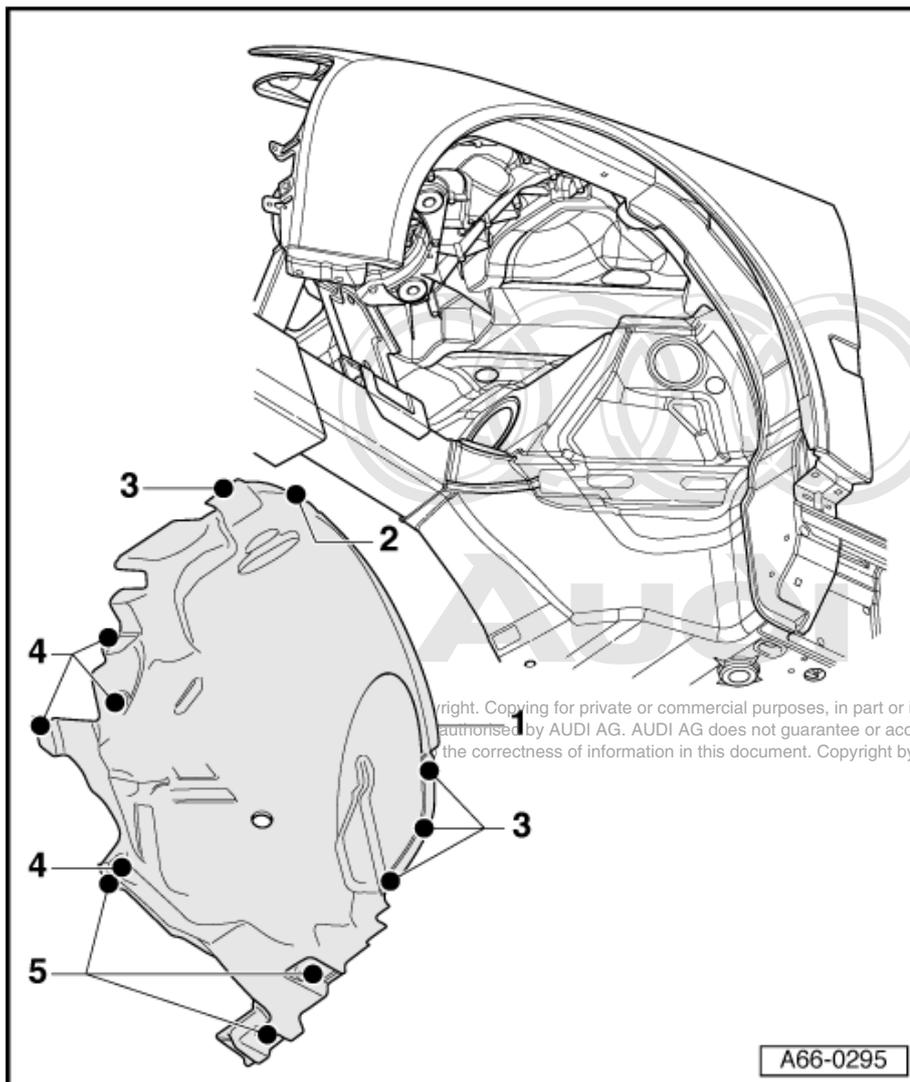
- 1.5 Nm

4 - Fasteners

- Only press in locking pins approx. 5 mm and pull out released fastener.
- Push locking pin back before installing
- After installing, press in locking pin until it is flush

5 - Hexagon nut

- 1.5 Nm



5.3 Rear wheel housing liner

1 - Rear wheel housing liner

- ❑ Rear wheel removed

2 - Hexagon nut

- ❑ 1.5 Nm

3 - Self-tapping screw

- ❑ 1.5 Nm

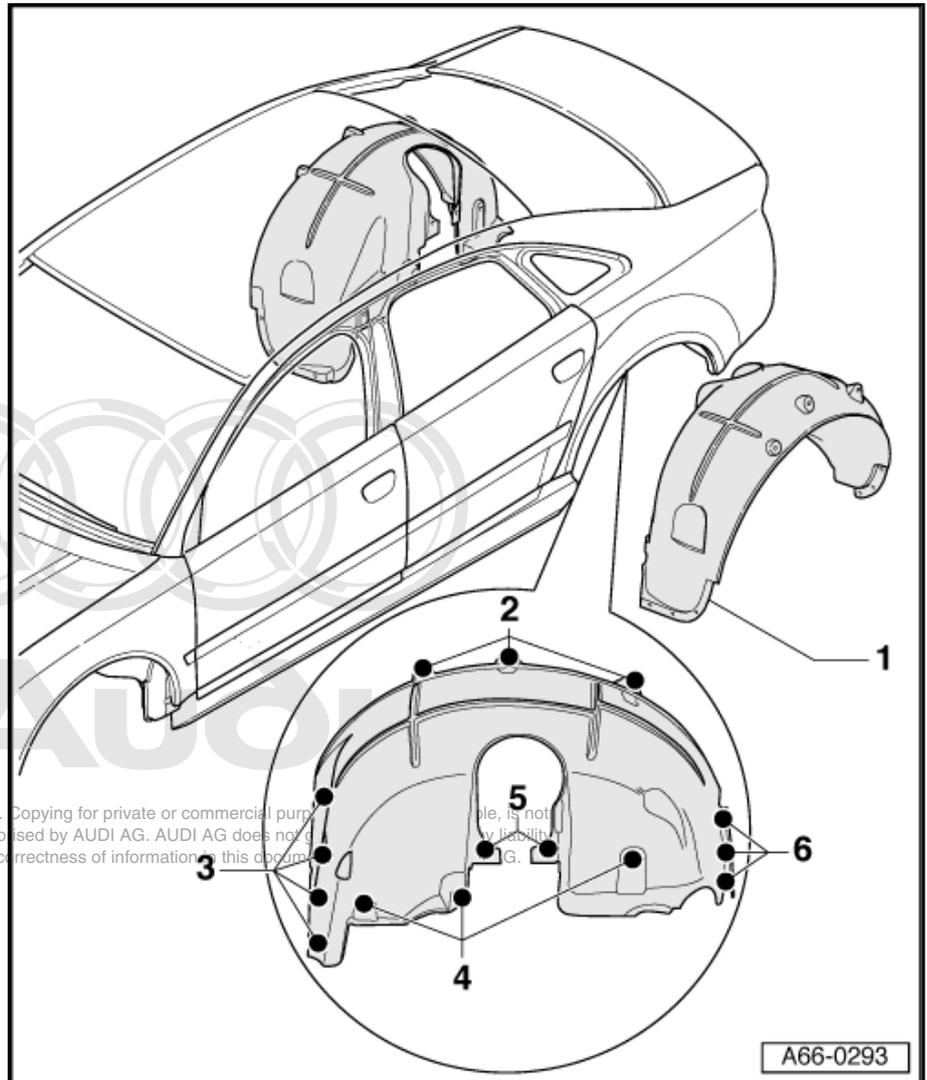
4 - Fastener

5 -

- ❑ Only press in locking pins approx. 5 mm and pull out released fastener.
- ❑ Push locking pin back before installing
- ❑ After installing, press in locking pin until it is flush

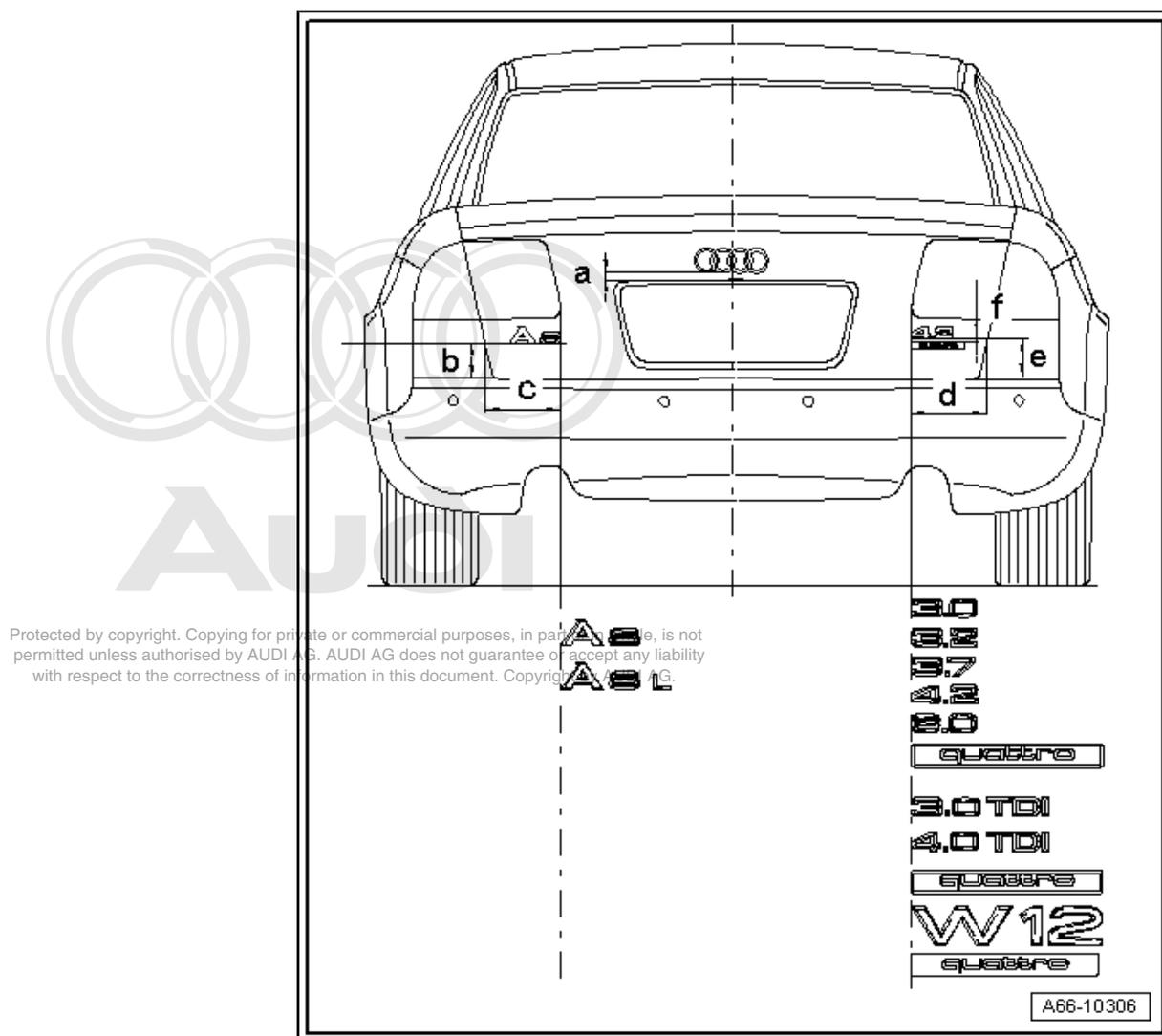
6 - Bolt for plastic components

- ❑ 1.5 Nm



6 Brand logo

6.1 Logotypes for rear lid



Note

The outer edges of the rear lid are used as reference edges.

Installing:

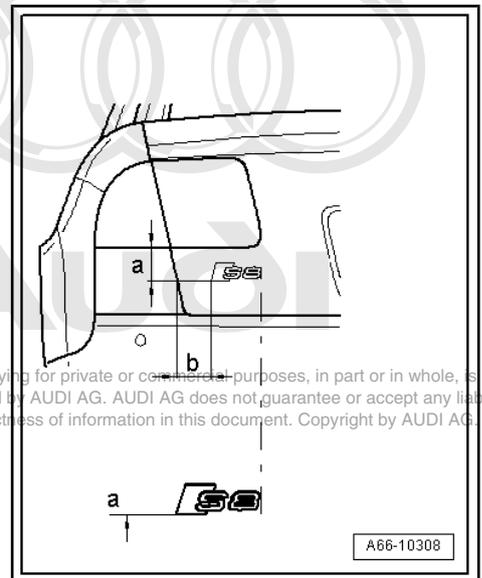
- Allow vehicle and model emblem to adjust to room temperature.
- Bonding surfaces must be dry and free from dust and grease.
- Clean body panel with petrol, treat with silicon remover and rub dry.
- Remove protective paper and press on parts of emblem -1- for approx. 3 seconds.
- Press on brand logo/emblem again using roller.

- ◆ a = 22 mm (measured from transition from curved to straight section)
- ◆ b = 81 mm
- ◆ c = 172 mm
- ◆ d = 179 mm
- ◆ e = 90 mm
- ◆ f = 4 mm

S8

- ◆ a = 69 mm
- ◆ b = 73 mm

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6.2 Logotype for wing panel

- ◆ a = 41 mm
- ◆ b = 208 mm

