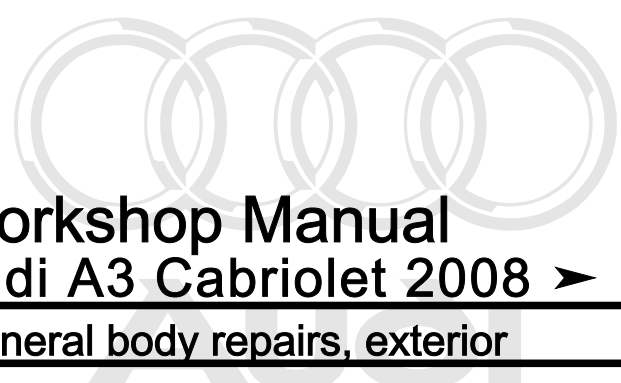




Workshop Manual Audi A3 Cabriolet 2008 ➤

General body repairs, exterior

Edition 08.2015

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List of Workshop Manual Repair Groups

Repair Group

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50 - Body - front

55 - Bonnet, rear lid

57 - Front doors, door components, central locking

61 - Convertible roof, hardtop, canopy

63 - Bumpers

64 - Glazing

66 - Exterior equipment



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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 Routing and attaching pipes/hoses and wiring

(ARL004383; Edition 08.2015)

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



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2 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 ⇒ ETKA.

Please note:

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



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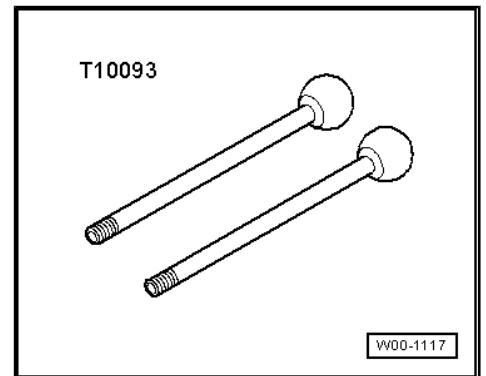
50 – Body - front

1 Body - front

1.1 Tools

Special tools and workshop equipment required

- ◆ Guide pins - T10093-



1.2 Removing and installing lock carrier with attachments



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1 - Lock carrier

- ☐ Take off bumper cover before removing
⇒ [page 115](#)



Note

Lock carrier can be removed with headlights and radiator installed.

- ☐ If radiator is also removed, drain coolant beforehand.
- ☐ Unplug electrical connectors for headlights.
- ☐ Unplug connection for headlight washer system and disconnect wiring.
- ☐ Bonnet lock must be removed ⇒ [page 12](#) or Bowden cable for bonnet release switch must be unplugged from coupling unit ⇒ [Item 1 \(page 16\)](#).
- ☐ To remove, unscrew bolts -3- and -8-.
- ☐ Detach lock carrier to front.

2 - Torx bolt

- ☐ 10 Nm

3 - Torx bolt

- ☐ 23 Nm

4 - Bracket for bumper

- ☐ Can remain installed when removing lock carrier.
- ☐ Removing ⇒ [page 5](#).

5 - Washer

6 - Hexagon nut

7 - Bumper

- ☐ Removing ⇒ [page 115](#)

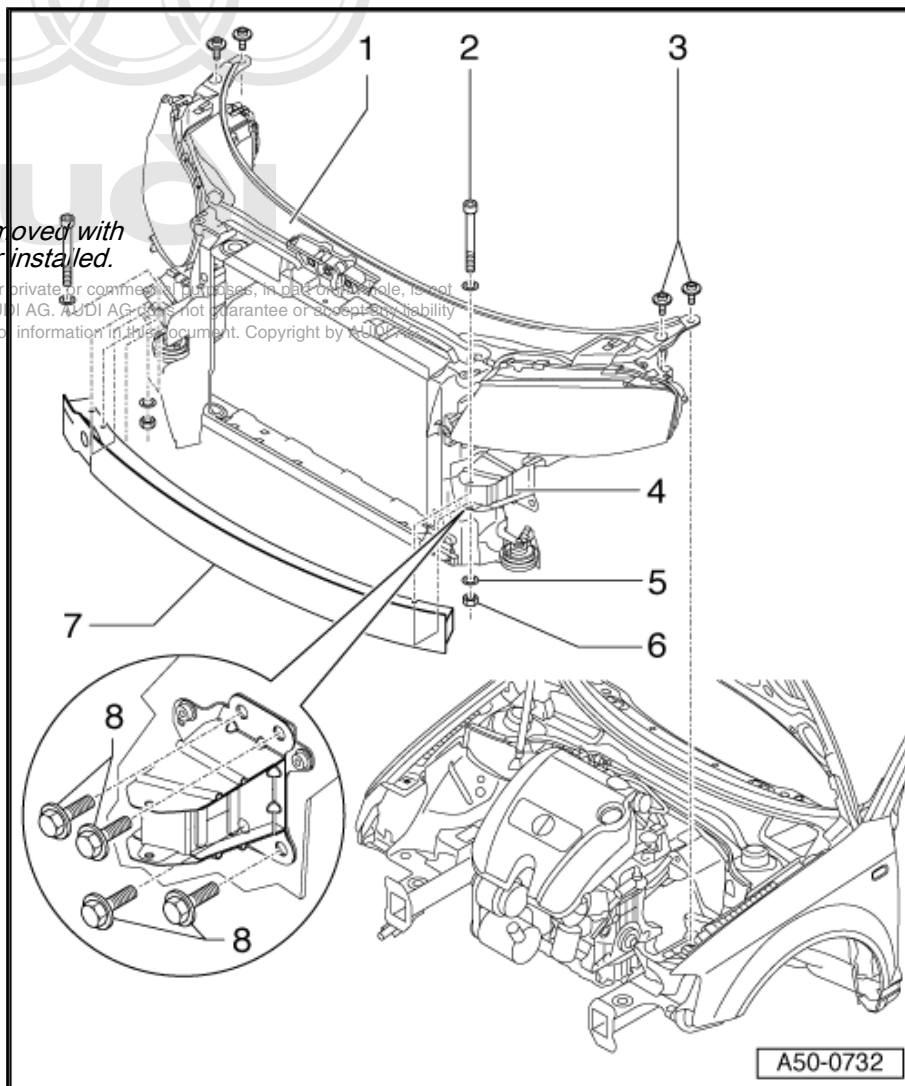
8 - Hexagon bolt

- ☐ 60 Nm



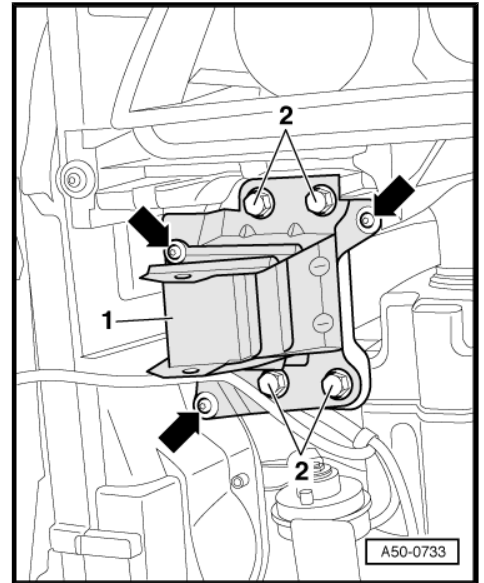
Note

Service position: Screw guide pins - T10093- into top outer bolt holes for brackets securing the bumper.



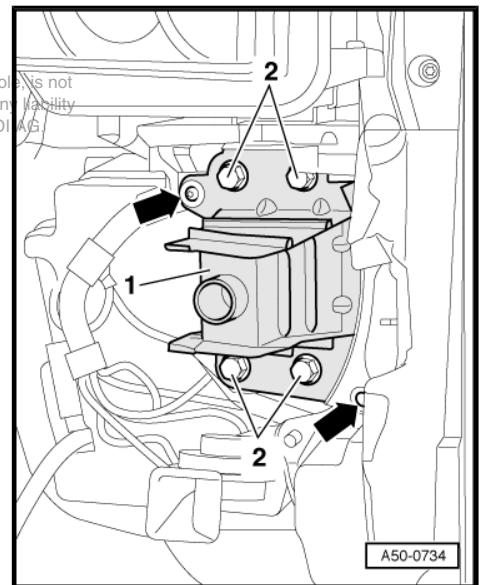
Removing bracket (left-side) for bumper

- Bumper cover removed
- Unscrew hexagon bolts -2-.
- Unscrew Torx bolts -arrow- and detach bracket from bumper.
- When installing, tighten hexagon bolts -2- to 60 Nm.
- Tighten Torx bolts to 8.5 Nm.



Removing bracket (right-side) for bumper

- Bumper cover removed
- Unscrew hexagon bolts -2-.
- Unscrew Torx bolts -arrow- and detach bracket from bumper.
- When installing, tighten hexagon bolts -2- to 60 Nm.
- Tighten Torx bolts to 8.5 Nm.



1.3 Removing and installing noise insulation frame

1 - Frame

- ❑ Noise insulation removed ⇒ page 186
- ❑ Unscrew bolts -2-, -3- and -4- and remove frame downwards.

2 - Bolt

-  2 Nm

3 - Bolt

- 23 Nm

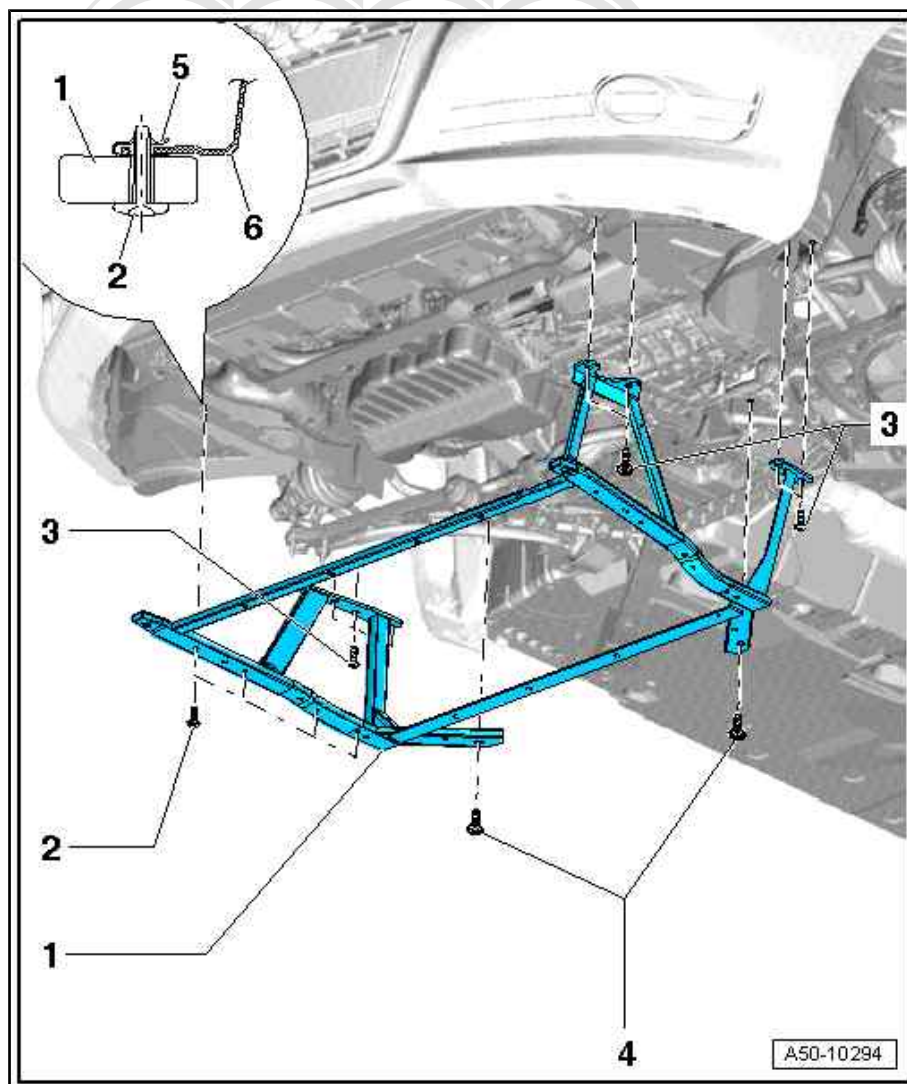
4 - Bolt

- 40 Nm

5 - Speed nut

- ❑ Attached to wheel housing liner

6 - Wheel housing liner



1.4 Removing and installing plenum chamber cover

Exploded view

1 - Windscreen

2 - Plenum chamber seal

3 - Plenum chamber cover

- Before removal, lift off plenum chamber seal -2- and detach washer jets.
- To remove plenum chamber cover, lift it up at front and use an improvised tool (e.g. tyre iron) to prise cover -3- out in direction of -arrow-, staying as close as possible to the fastening strip -4- and starting from the outside.



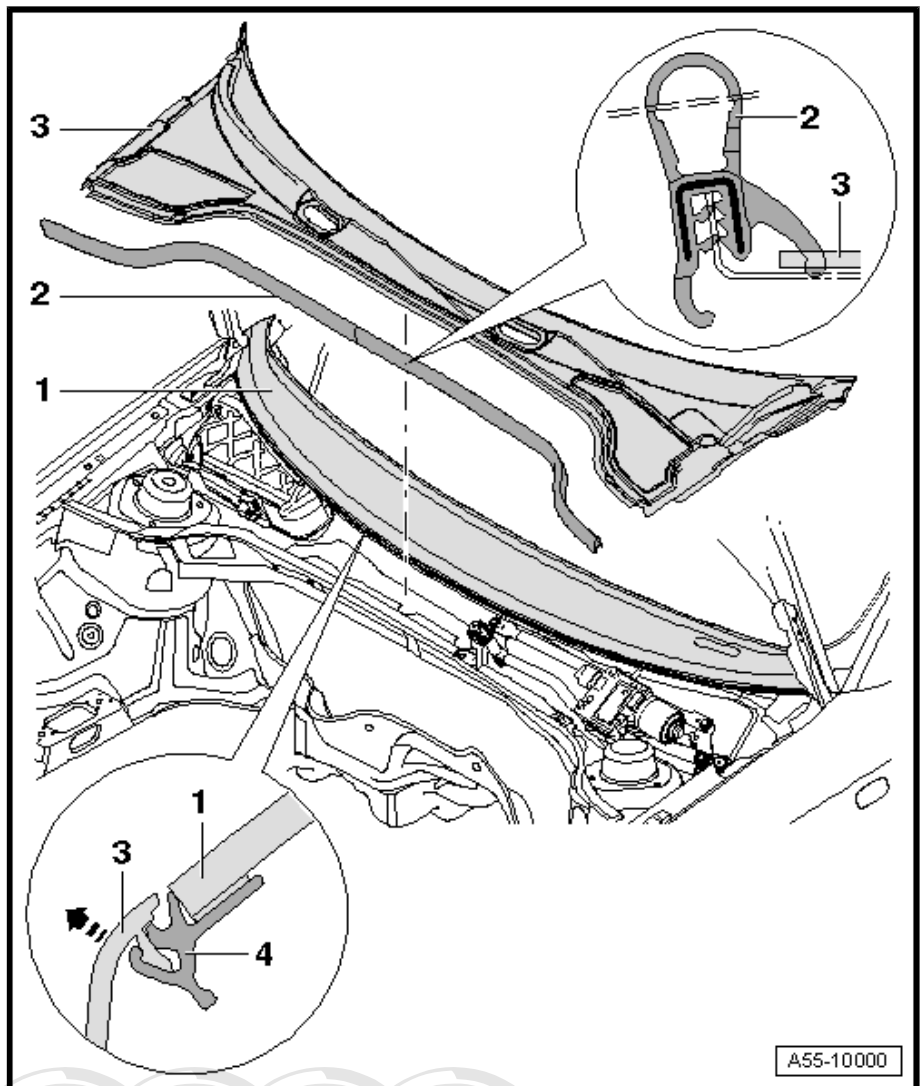
Caution

When prising out the cover, make sure you do NOT push up the fastening strip -4-. This would push the fastening strip off the windscreen, leading to leaks in this area.

- Support the tyre iron e.g. with a wooden block (approx. 4 cm high) placed on the top of the suspension turret.
- When installing, do not "hammer on" the cover, but gradually push it into the fastening strip.
- The fastening strip could otherwise be pressed off the windscreen, which would lead to leaks in this area.

4 - Fastening strip for cover

- No spare part available; must not be pressed off windscreen when installing plenum chamber cover.



2 Wing

2.1 Removing and installing wing

1 - Wing panel brace

2 - Torx bolt

- 10 Nm

3 - Torx bolt

- 10 Nm

4 - Wing

- Take off bumper cover and wheel housing liner before removing ⇒ [page 115](#).
- Remove closure plate ⇒ [page 9](#).
- Removing wing panel cover ⇒ [page 9](#)
- To remove, unscrew bolts -3- at wing mounting flange.
- Unscrew bolt -5- with door open.
- Slacken off bolt -6- with shim.
- Unscrew panel bolts -10- from brace for wing panels, as well as panel bolts -8- beneath the closure plate and detach the wing panels to the side.

5 - Bolt with washer

- 7.5 Nm

6 - Bolt with washer and shim

- 4.5 Nm

- When removing the wing panel, only slacken off the bolt and pull the wing panel out to the side (elongated hole in the tab).

7 - Bolt with washer

- 5 Nm

8 - Bolt with washer

- 5 Nm

- Accessible beneath closure plate

9 - Speed nut

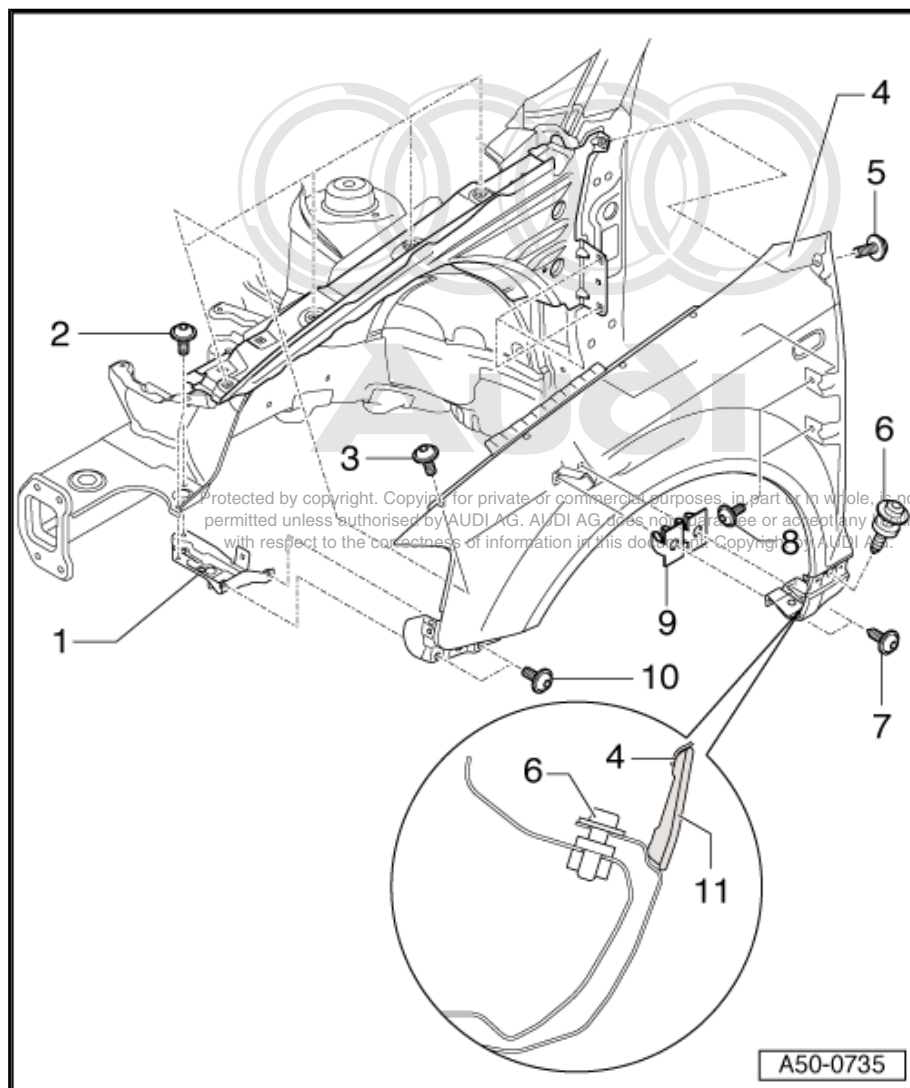
- 2x

10 - Bolt with washer

- 10 Nm

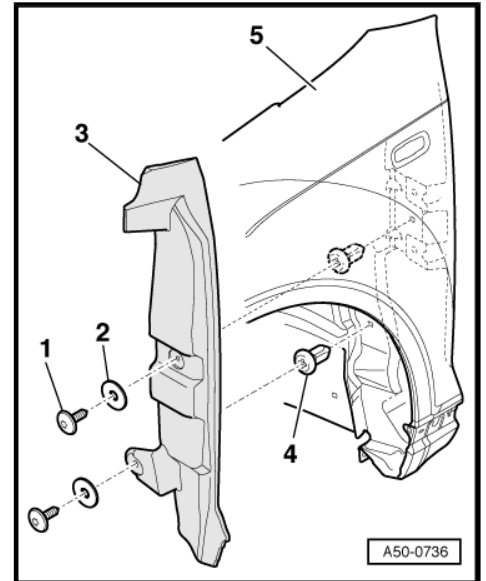
11 - Cover for wing panel

- Removing ⇒ [page 9](#)



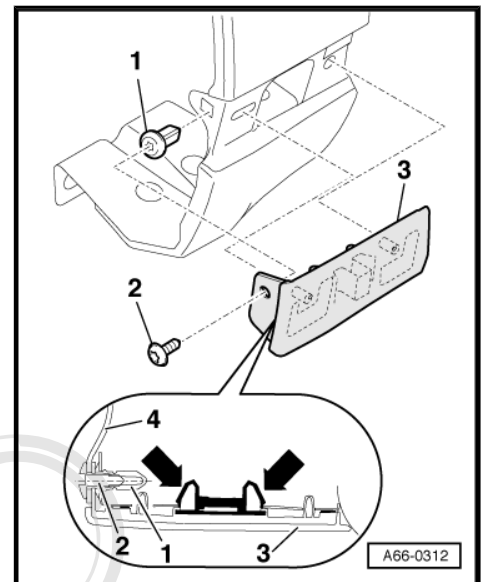
Removing and installing closure plate

- Wheel housing liner removed ⇒ [page 193](#) .
- Unscrew bolts -1- and take closure plate -3- out of wheel housing.
- Washer -2-
- Clip -4- fitted in body.
- Wing panel -5-



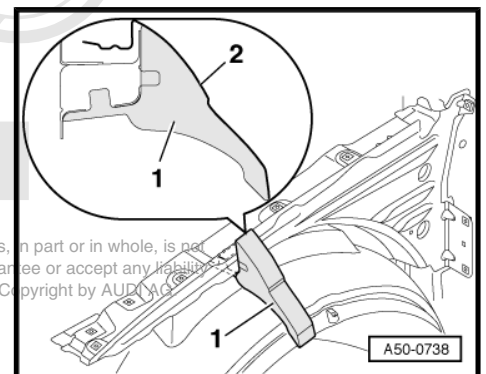
Removing wing panel cover

- Unscrew bolts for wheel housing liner in the area of the cover.
- Press wheel housing liner to one side and unscrew bolts -2-.
- Compress retainers -arrows- and pull cover -3- outwards off wing panel.
- Clip -1- fitted in body.
- Wheel housing liner -4-



Seal for wheel housing liner

- Seal is self-adhesive; remove protective paper and press seal -1- onto the inner side of the wing panel -2- as shown.
- If necessary, the seal can be broken out at the perforation to feed through various wires.



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3 Noise insulation

3.1 Removing and installing noise insulation

1 - Noise insulation

- ❑ To remove, unscrew bolts -2- from subframe or unscrew bolts -3- from wheel housing liner and detach noise insulation towards rear.
- ❑ When installing, make sure that the noise insulation is inserted at the front as illustrated in detail view ⇒ [page 10](#) .

2 - Bolt with washer

- ❑ 6 Nm

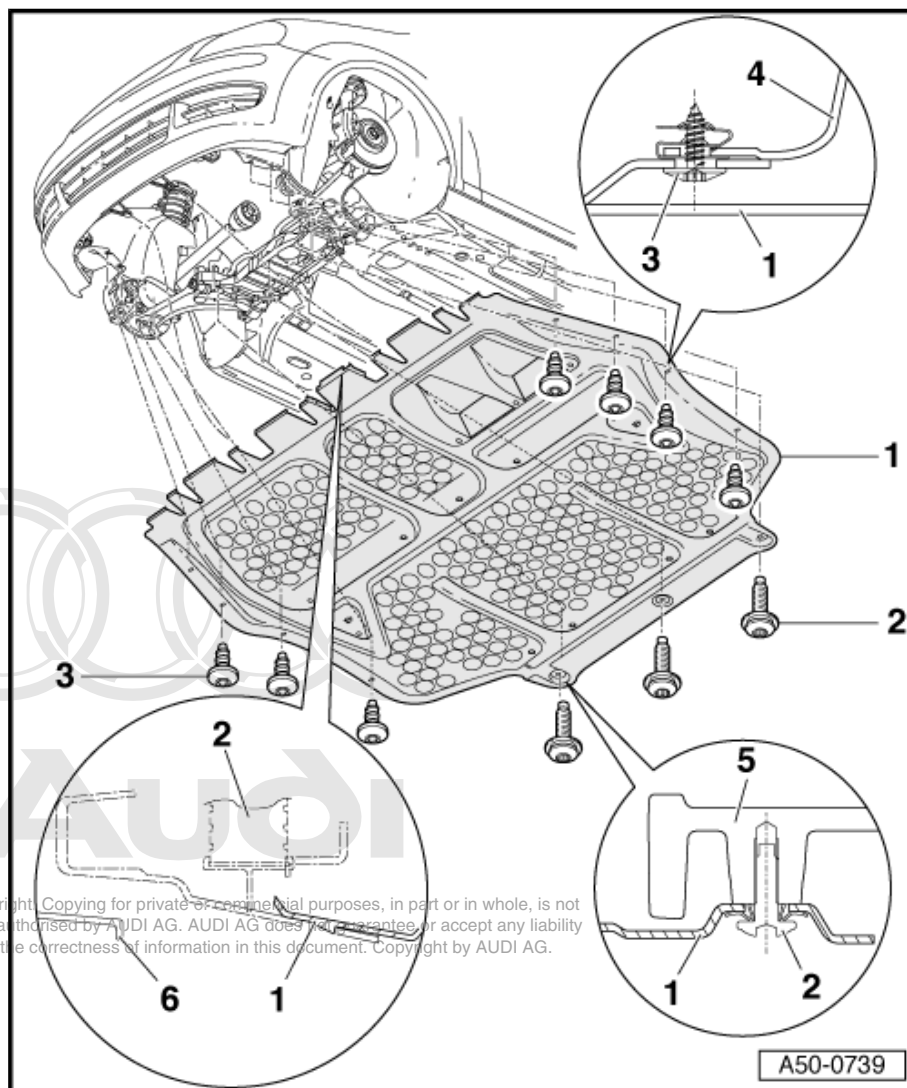
3 - Self-tapping screw

- ❑ 2 Nm

4 - Wheel housing liner

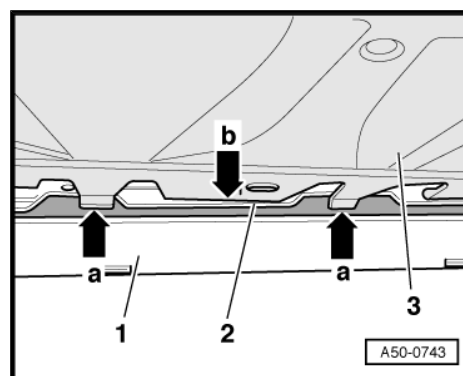
5 - Subframe

6 - Lock carrier



Inserting noise insulation at bottom of lock carrier

- Insert noise insulation -3- into bottom of lock carrier -2- as illustrated.
- The narrow tabs -arrow a- must be inserted below and the wide tabs -arrow b- must be inserted above the edge of the lock carrier -2-.
- The catches on the bigger tabs must engage in the holes of the lock carrier.



55 – Bonnet, rear lid

1 Bonnet

1.1 Removing and installing bonnet

Exploded view



WARNING

After installing the bonnet check that arrester/bonnet lock close correctly.

Bonnet must fall into bonnet lock from equilibrium position and engage fully.

1 - Bonnet

- ☐ Unplug electrical connectors before removing.
- ☐ To remove, detach gas strut -9- from bonnet ⇒ [page 13](#).
- ☐ Unscrew hexagon bolts from bonnet hinge (on bonnet side) and remove bonnet.

2 - Buffer

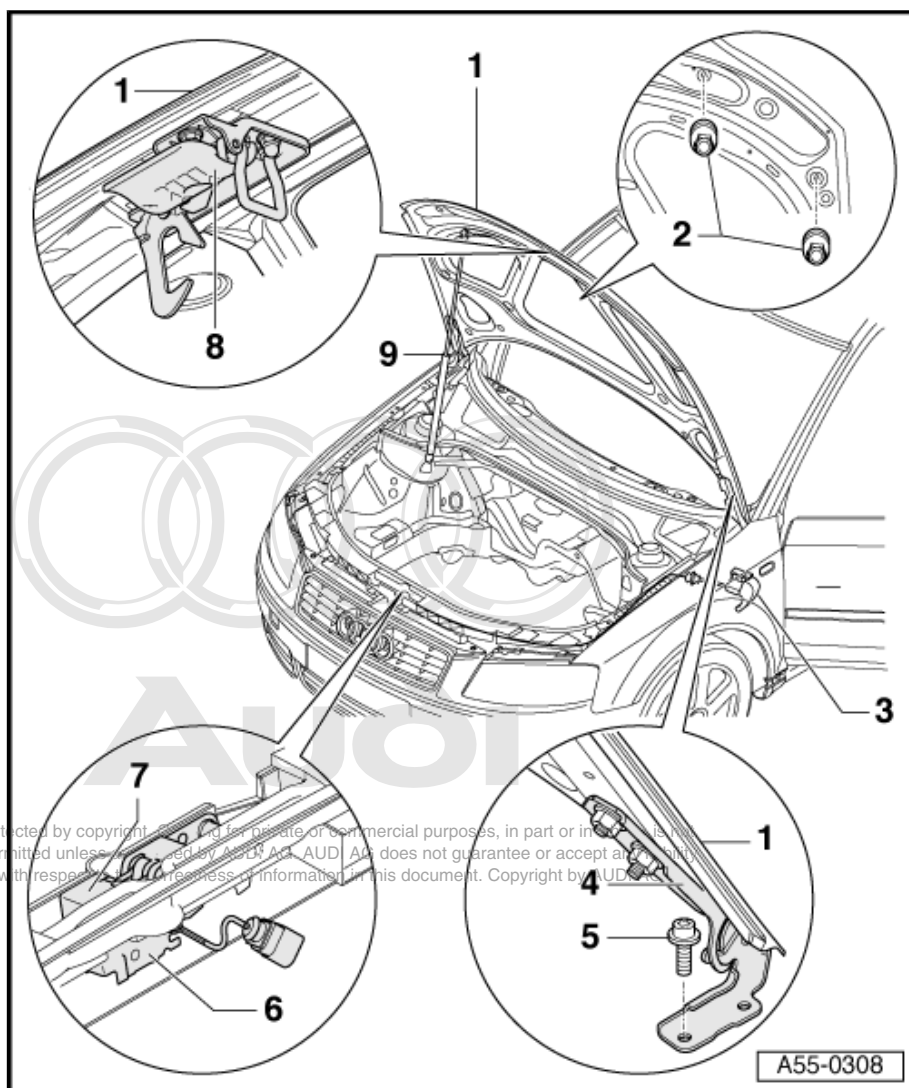
- ☐ The two outer buffers can be used to adjust height of bonnet.
- ☐ Screw in the two inner buffers as far as possible and then slacken off half a turn.

3 - Cable for bonnet

- ☐ Removing ⇒ [page 16](#)

4 - Bonnet hinge

- ☐ Remove bonnet before removing hinge.
- ☐ Unscrew hexagon bolt -6- and then detach bonnet.



net hinge.

5 - Bolt with washer

- 21 Nm

6 - Bonnet lock

- Removing ⇒ [page 12](#)

7 - Lock carrier

8 - Arrester

- Removing ⇒ [page 13](#)

9 - Gas strut

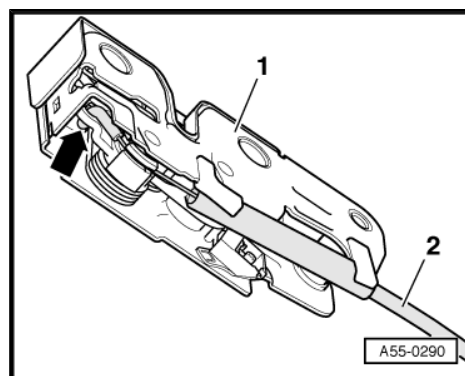
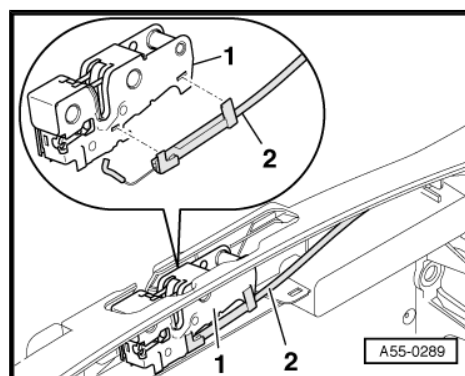
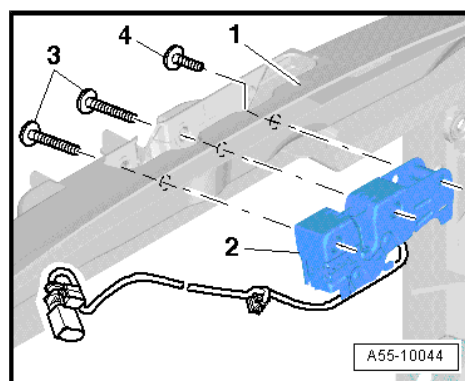
- To remove, slightly raise retaining clip -4- with screwdriver and detach gas strut from ball-head stud.

Removing bonnet lock

- Unplug electrical connector and unscrew bolts -3- and -4-.
- Remove bonnet lock -2- from lock carrier -1-.
- Disengage cable from lock.

Only on right-hand drive vehicles

- Unclip cable -2- from bonnet lock -1-.

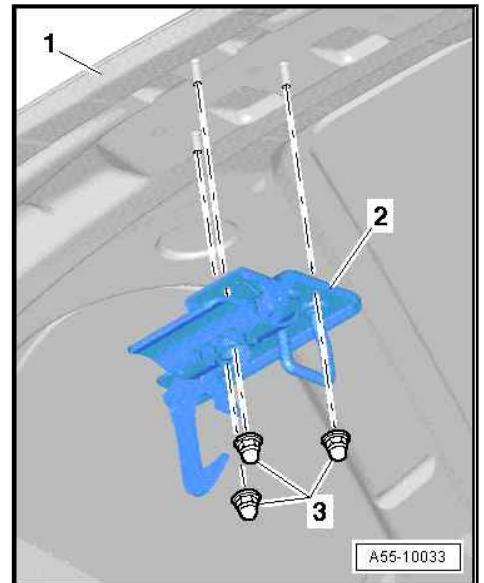


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- Disengage cable from release lever -arrow- in bonnet lock.
- Install in reverse order of removal.

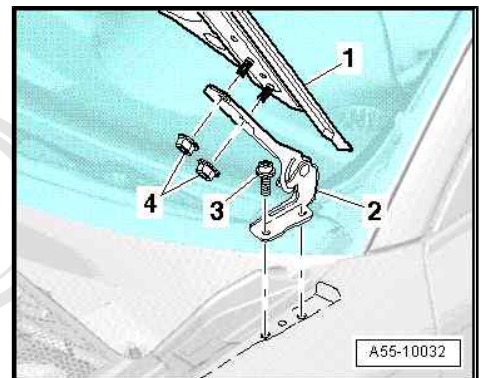
Removing arrester

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



Removing bonnet hinge

- Bonnet -1- must be removed or securely supported.
- To remove hinge -2- unscrew hexagon nuts -4- and bolts -3-.



Removing and installing gas strut

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1 - Gas strut

- ☐ Prop up and secure bonnet in open position.

- Use screwdriver to slightly lift retaining clips -2- on gas strut -arrow- at both ends of gas strut; detach gas strut from ball-head studs -3- and make sure it engages.

To install, press gas strut onto ball-head studs -3- and make sure it engages.

- The cylinder end of the gas strut must be installed on the body side.

2 - Retaining clips

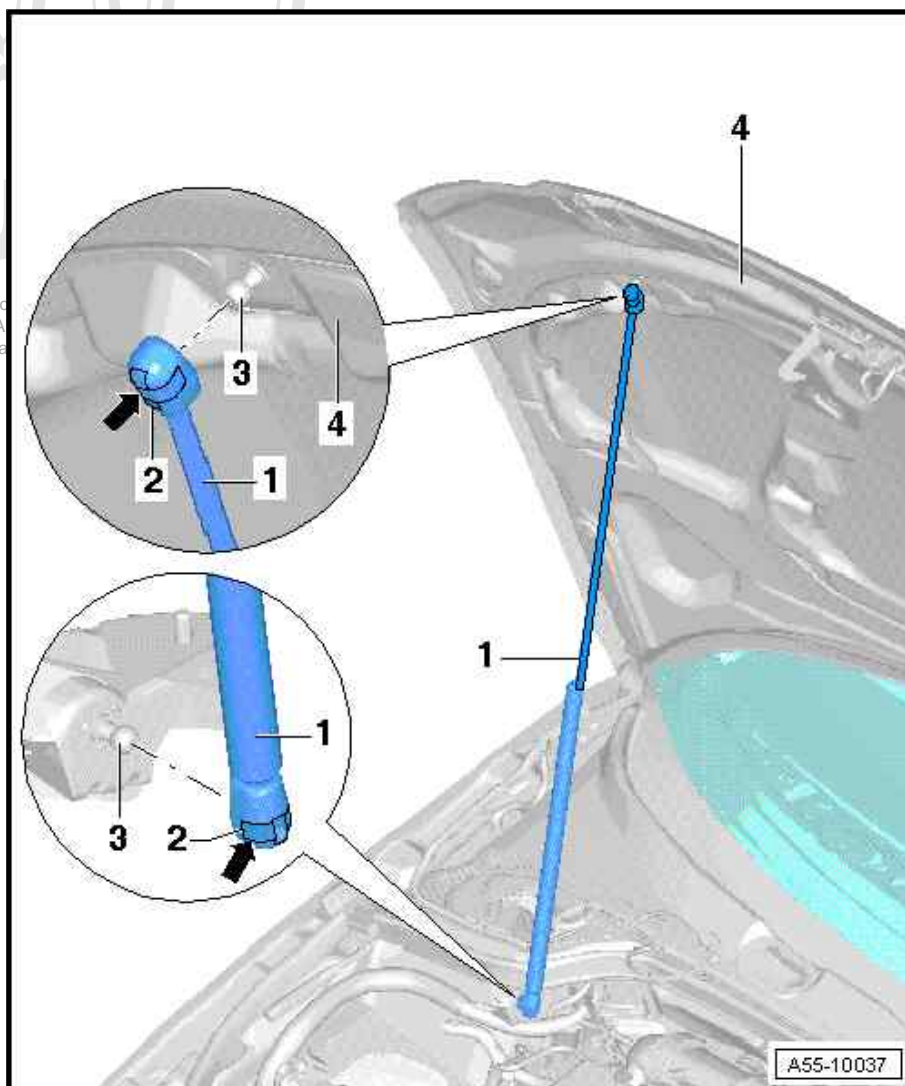
- ☐ To remove gas struts, lift clips slightly with a screwdriver.

3 - Ball-head pin

- ☐ When installing, tighten to 14 Nm.

4 - Bonnet

- ☐ Make sure bonnet does not fall down during removal of gas struts (secure it accordingly).



Releasing gas from gas strut

- Clamp section -x = 50 mm- of gas strut in a vice.



WARNING

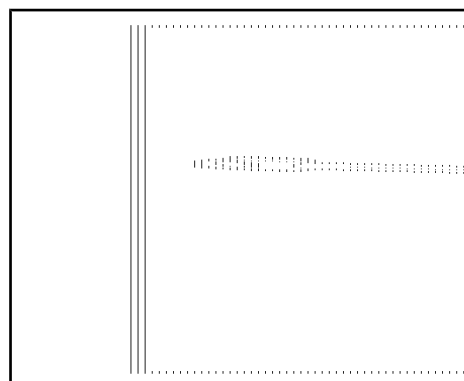
Only the section -x= 50 mm- of the gas strut may be clamped in the vice (accident risk).

- Saw open the first third of the cylinder part of the gas struts (measured from the piston rod end of the cylinder).



Note

- ♦ Protective goggles must be worn during sawing process.
- ♦ Cover area of separating cut with a cloth.



Adjusting height of bonnet on vehicles with 5 doors



Note

The bonnet must be adjusted as described in the following in order to avoid wind noises.

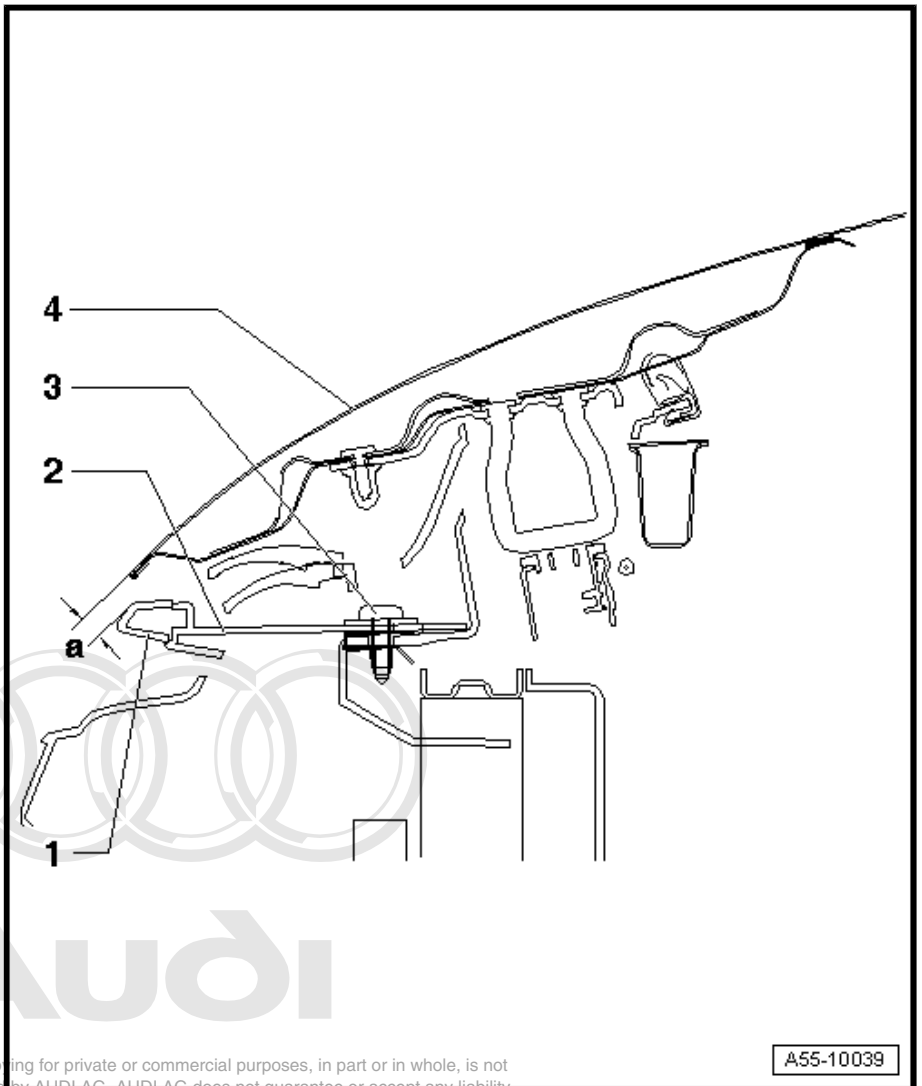
1 - Trim frame for radiator grille

2 - Radiator grille

3 - Bolt with washer

4 - Bonnet

- To avoid wind noises set bonnet height at distance -a = 1.5 mm- to trim frame.



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A55-10039

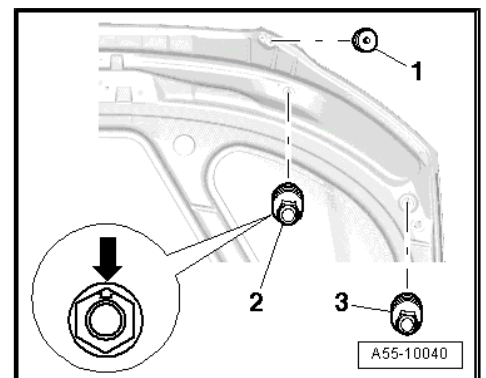
Adjusting height of stop buffers

- With bonnet closed, stop buffers -1-, -2- and -3- must rest lightly on lock carrier.



Note

You can also use the stop buffers to adjust the height.



A55-10040

1.2 Removing and installing cable for bonnet lock

1 - Coupling unit for cable

- ❑ To separate Bowden cable, fold coupling unit open in opposite direction of arrow.
- ❑ Disengage cable from coupling unit.
- ❑ When installing, push coupling unit together in direction of arrow.

2 - Cable, lock carrier side

- ❑ When removing, disconnect lock carrier at coupling unit.
- ❑ Routing (passenger compartment side ⇒ [page 16](#)).

3 - Cable clip

- ❑ Pressed into subframe.

4 - Clip

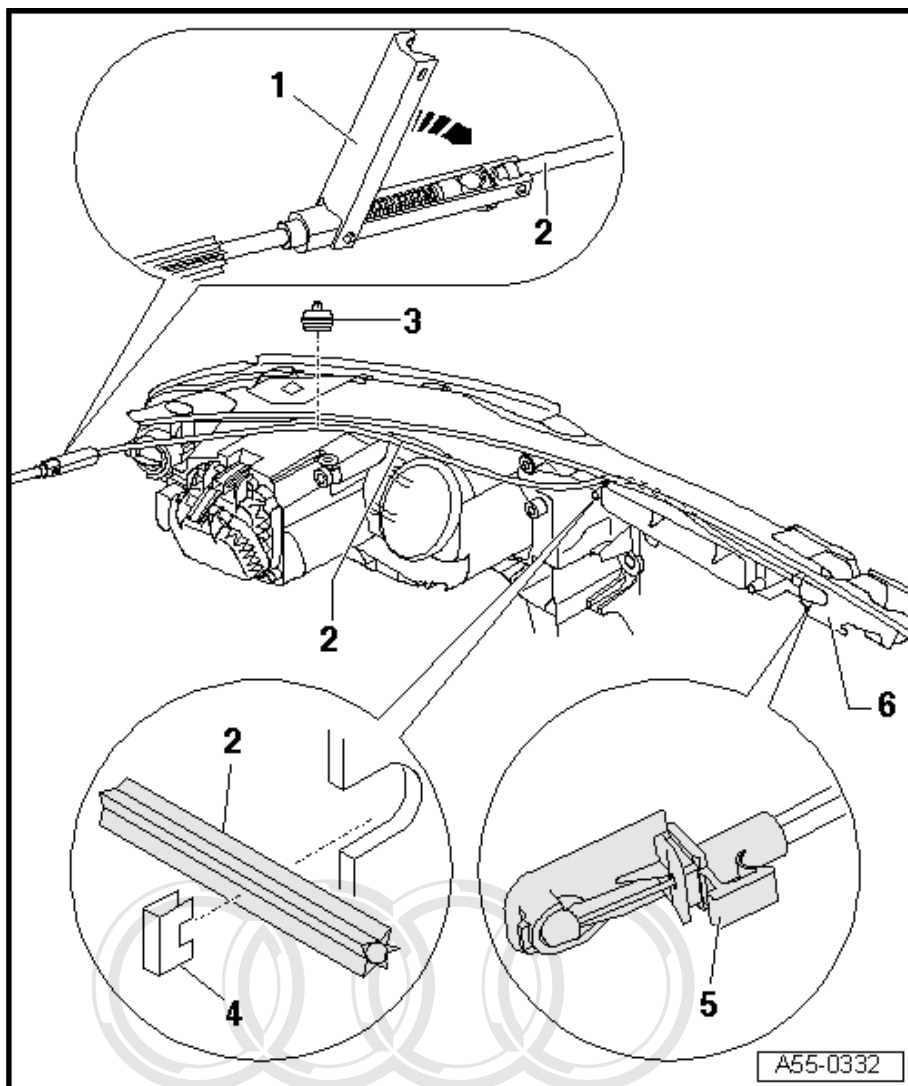
- ❑ Secure cable in lock carrier using clip.

5 - Mounting

- ❑ Engage cable in bonnet lock.
- ❑ Make sure that the ball engages in the tube mounting.

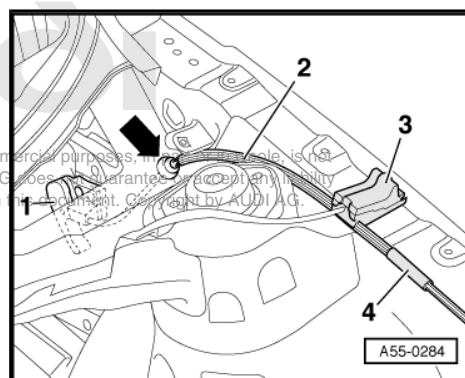
6 - Bonnet lock

- ❑ Removing ⇒ [page 12](#)

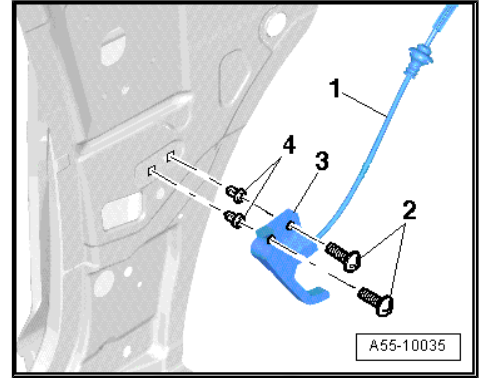


Cable (passenger compartment)

- Separate cable at coupling unit -4-.
- Unfasten grommet -arrow- from bulkhead, pull cable -2- out from under the seal -3- and into the passenger compartment.
- To remove release lever -3- unscrew bolts -2-.



- When installing, make sure you press grommet for cable -1- into bulkhead correctly.
- When installing, tighten bolts to 2 Nm.
- Clip -4- fitted in A-pillar (bottom).



1.3 Lining for bonnet

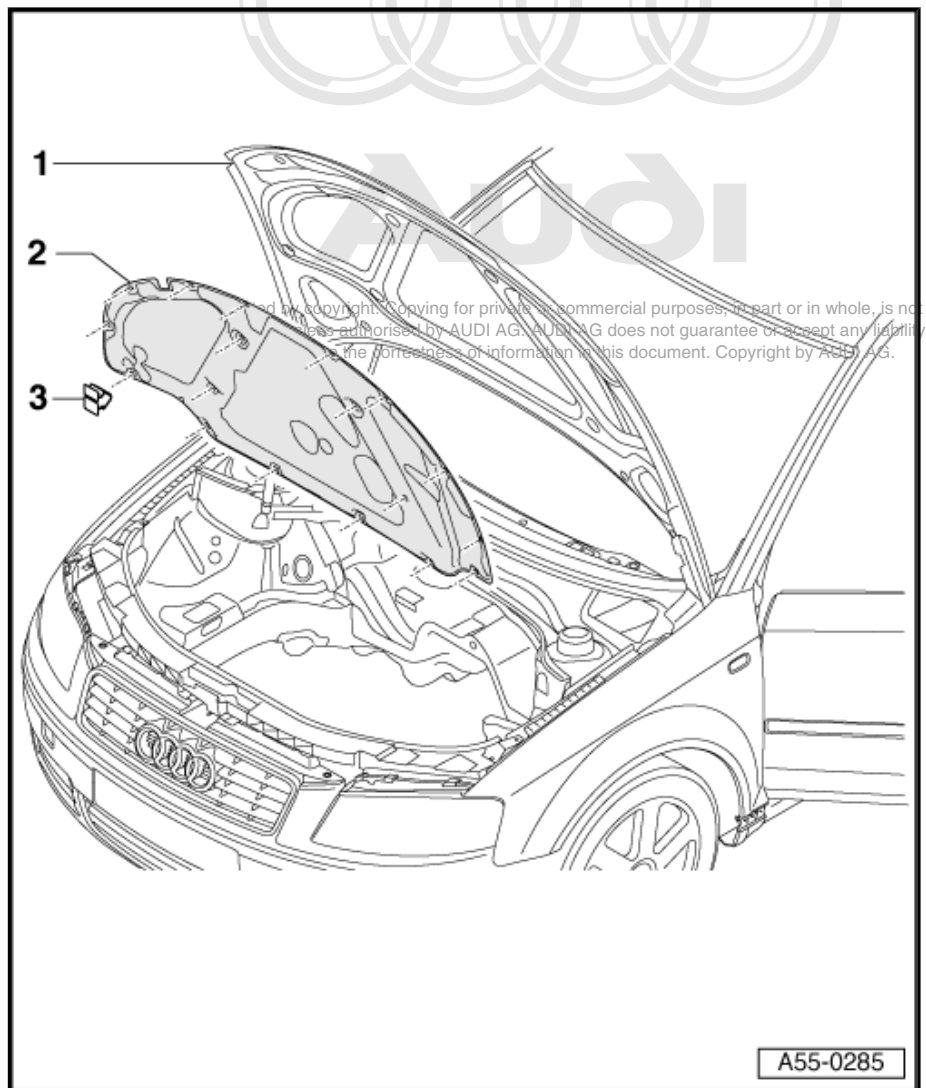
1 - Bonnet

2 - Lining for bonnet

- ☐ Pull all retaining clips out of lining, and detach lining from bonnet.

3 - Retaining clip

- ☐ 18x



1.4 Bonnet seal

1 - Lock carrier seal

- ❑ Position seal in centre of lock carrier (note marking for centre) and push seal from side onto flange at lock carrier and wing panels.

2 - Profiled seal (left-side)

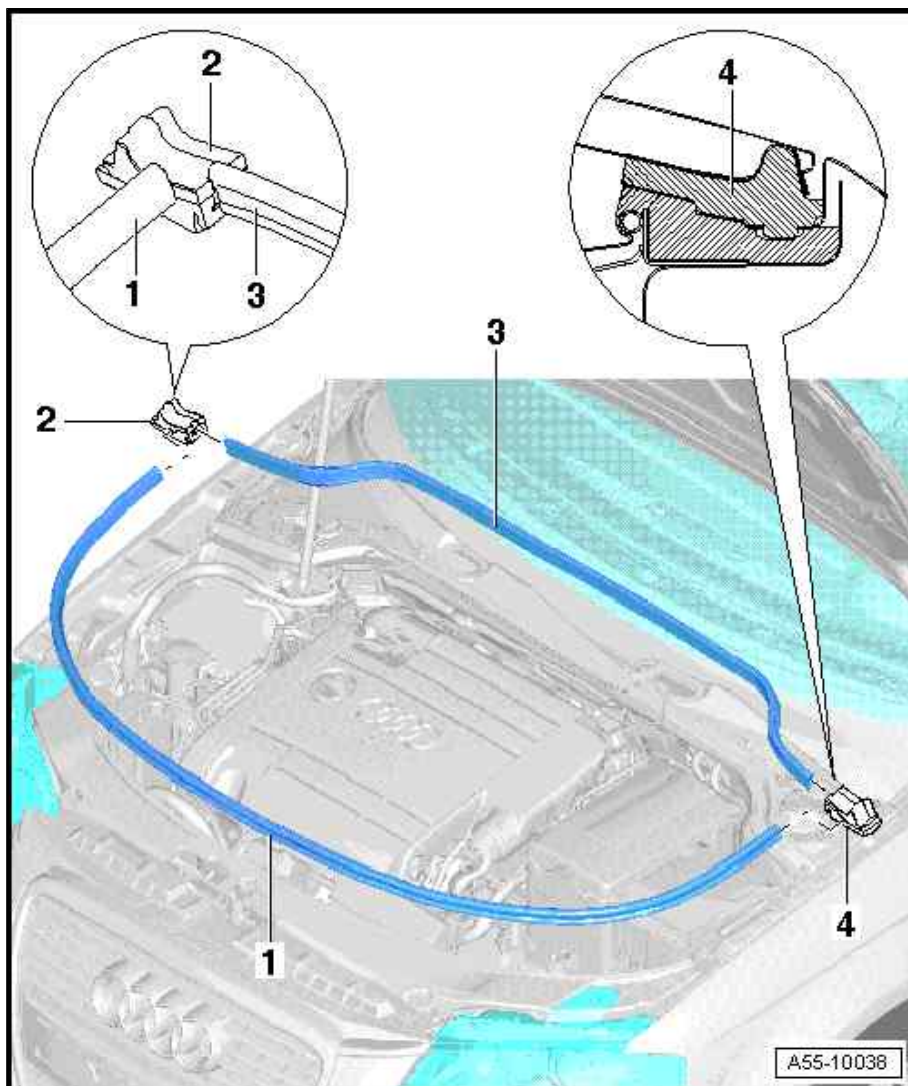
- ❑ Self-adhesive
- ❑ Before installing make sure bonding surface is free of dust and grease.
- ❑ Remove protective paper, and press seal on firmly.

3 - Plenum chamber seal

- ❑ Position moulded ends onto wing mounting flange from side (see -detail view-) and press seal onto flange from top, working from outside to inside.

4 - Profiled seal (right-side)

- ❑ Self-adhesive
- ❑ Before installing make sure bonding surface is free of dust and grease.
- ❑ Remove protective paper, and press seal on firmly.



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A55-10038

1.5 Removing and installing plenum chamber cover

- 1 - Windscreen
- 2 - Plenum chamber seal
- 3 - Plenum chamber cover
- 4 - Fastening strip for cover

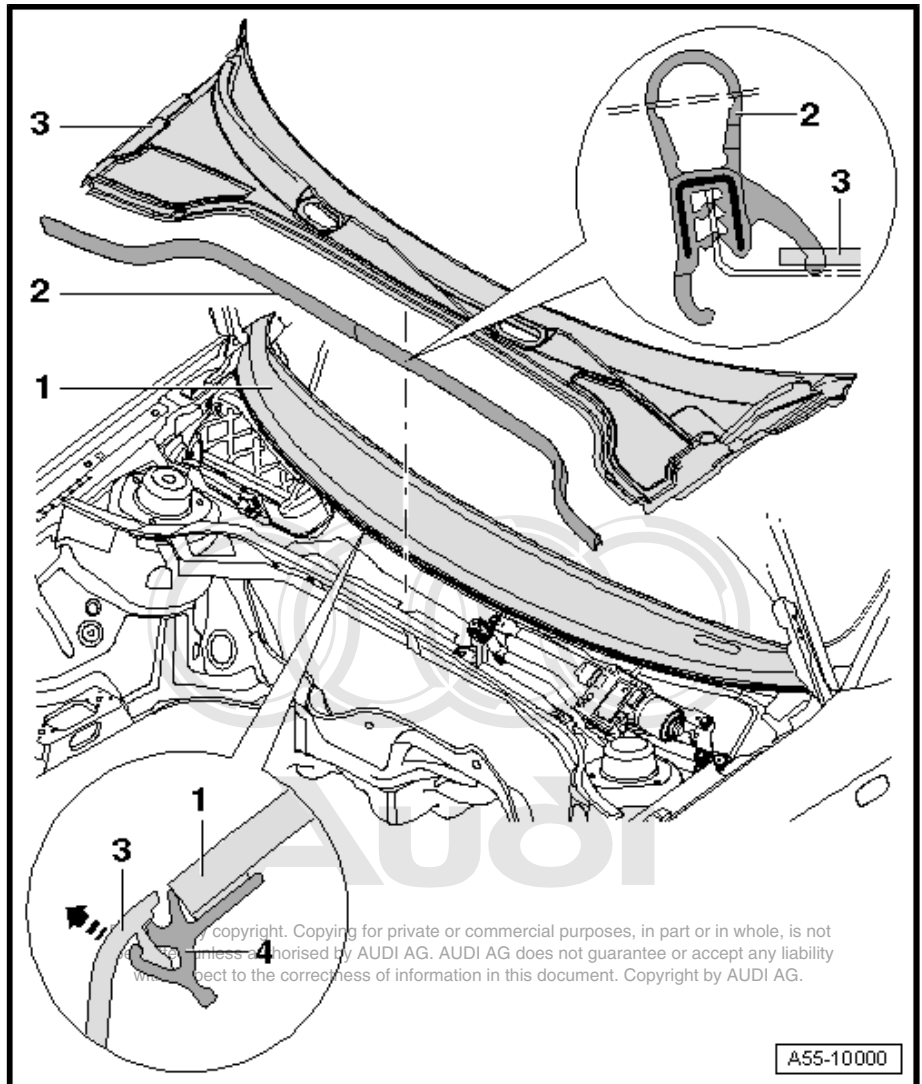
- Before removal, lift off plenum chamber seal -2- and detach washer jets.
- To remove plenum chamber cover, lift it up at front and use an improvised tool (e.g. tyre iron) to prise cover -3- out in direction of -arrow-, staying as close as possible to the fastening strip -4- and starting from the outside.



Caution

When prising out the cover, make sure you do NOT push up the fastening strip -4-. This would push the fastening strip off the windscreen, leading to leaks in this area.

- Support the tyre iron e. g. with a wooden block (approx. 4 cm high) placed on the top of the suspension turret.
- When installing, do not "hammer on" the cover, but gradually push it into the fastening strip.
- The fastening strip could otherwise be pressed off the windscreen, which would lead to leaks in this area.



2 Rear lid

2.1 Exploded view - rear lid hinge, gas strut and rear lid stop

1 - Stop buffer

- ☐ For stop (body)
- ☐ Removing and installing
⇒ [page 25](#)

2 - Protective cap

3 - Adjusting buffer

- ☐ Different versions on left and right
- ☐ Removing and installing
⇒ [page 25](#)
- ☐ Adjusting
⇒ ["2.5 Adjusting rear lid", page 23](#)

4 - Fastener

5 - Cover for water channel

- ☐ Removing and installing
⇒ [page 26](#)

6 - Bolt

- ☐ Different lengths
- ☐ 21 Nm

7 - Hinge

- ☐ For rear lid with stop
- ☐ Removing and installing
⇒ [page 22](#)

8 - Nut

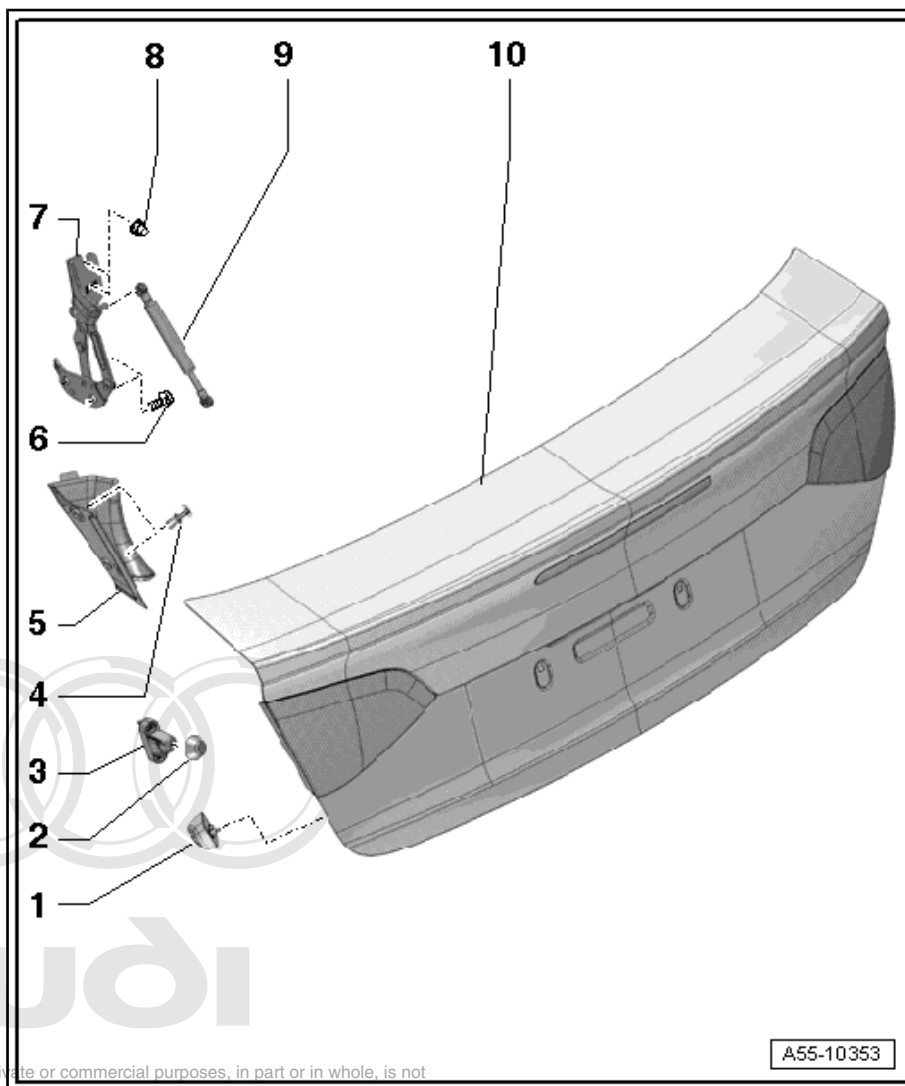
- ☐ 21 Nm

9 - Gas strut

- ☐ Removing and installing
⇒ [page 26](#)

10 - Rear lid

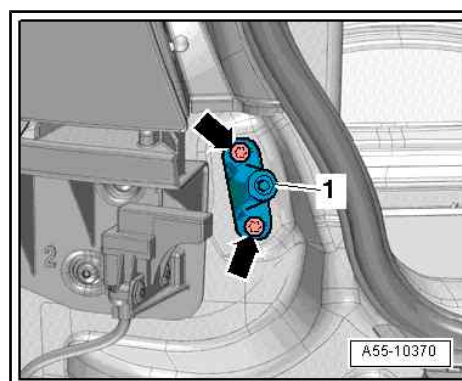
- ☐ Removing and installing ⇒ [page 21](#)
- ☐ Adjusting ⇒ [page 23](#)



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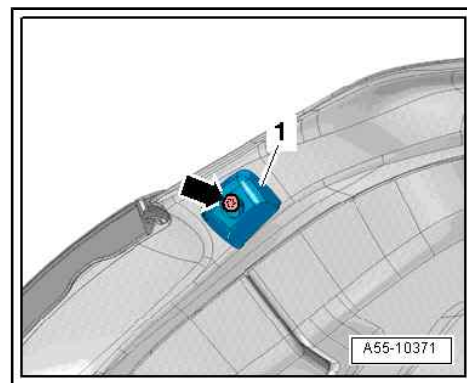
Tightening torque for adjusting buffer

- Tighten bolts -arrows- for adjusting buffer -1- to 8 Nm.



Tightening torque for stop buffer

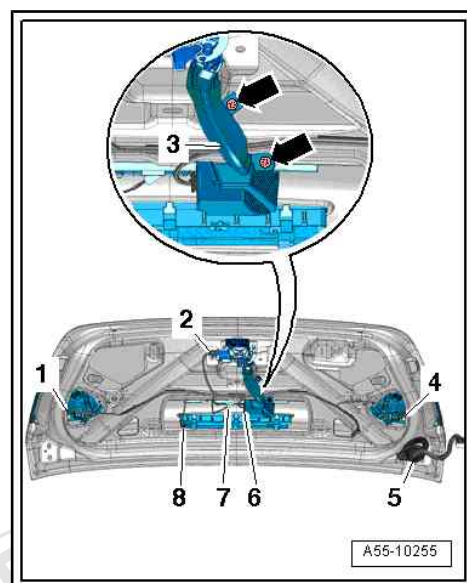
- Tighten bolt -arrow- for stop buffer -1- to 8 Nm.



2.2 Removing and installing rear lid

Removing

- Remove rear lid trim ⇒ Rep. gr. 70 .
- Unplug electrical connectors -1, 2, 4, 6, 7, 8-.
- Unscrew fasteners -arrows- at anti-theft bracket -3- for lock cylinder and detach.
- Move clear electrical wiring harness at rear lid.
- Pull grommet -5- out of opening in rear lid and guide out electrical wiring harness.



- Unscrew nut -3-.

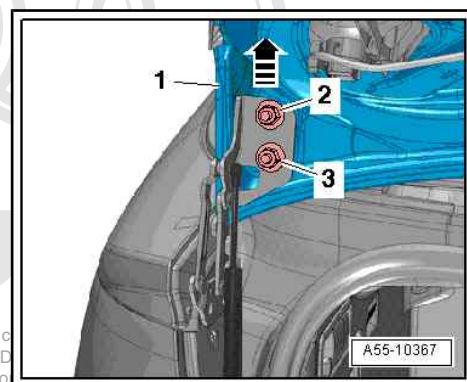


WARNING

Risk of injury!

- ◆ *A second mechanic is required to support and hold the rear lid during removal and installation.*

- Slacken nut -2- several turns.
- Together with a second mechanic, detach rear lid -1- from hinge in direction of -arrow-.

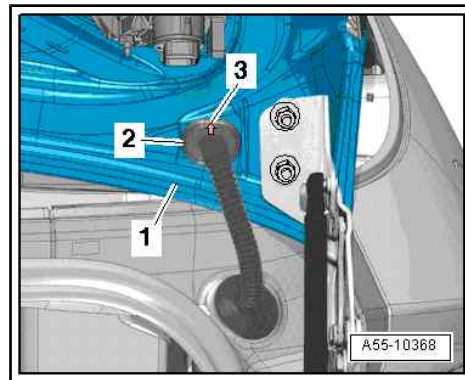


Installing

- Tightening torque ⇒ [page 20](#)

Install in reverse order of removal; note the following:

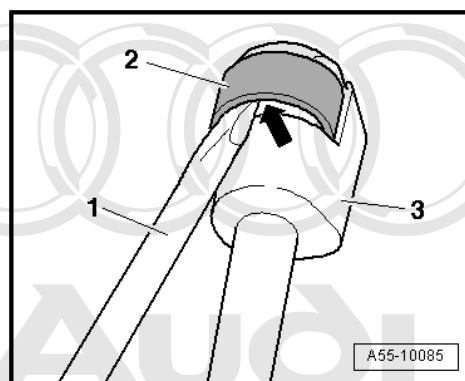
- When inserting grommet -2- into rear lid -1-, make sure that “arrow” -item 3- on grommet is pointing upwards.
- Adjust rear lid ⇒ [page 23](#) .



2.3 Removing and installing rear lid hinge

Removing

- Remove rear lid ⇒ [page 21](#) .
- Disengage gas strut for hinge; to do so, lift retaining spring -2- -arrow- with a small screwdriver -1- and detach gas strut -3- from ball-head stud.



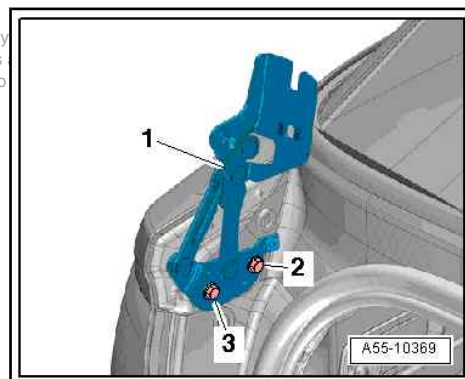
- Mark bolts -2- and -3- for re-installation (different lengths).
- Remove bolts -2- and -3-.
- Detach hinge -1- for rear lid.

Installing

- Tightening torque ⇒ [page 20](#)

Install in reverse order of removal; note the following:

- Screw in bolts according to markings made during removal.
- Install rear lid ⇒ [page 21](#) .



2.4 Gap widths at rear lid

A - Rear lid to bumper cover

- Gap width -a- = 3.5 ± 0.5 mm

-1- Bumper cover

-2- Rear lid

□ Adjusting ⇒ [page 23](#)

B - Rear lid to side panel (rear)

- Gap width -b- = 3.5 ± 0.5 mm

-2- Rear lid

-3- Side panel (rear)

□ Adjusting ⇒ [page 23](#)

C - Rear lid to convertible roof compartment trim strip

- Black style package: gap width -c- = 4.5 ± 0.7 mm

- Chrome package: gap width -c- = 4.9 ± 0.7 mm

-2- Rear lid

-4- Convertible roof compartment trim strip

□ Adjusting ⇒ [page 23](#)

D - Rear lid to side panel (rear)

- Gap width -d- = 3.7 ± 0.5 mm

-2- Rear lid

-3- Side panel (rear)

□ Adjusting ⇒ [page 23](#)

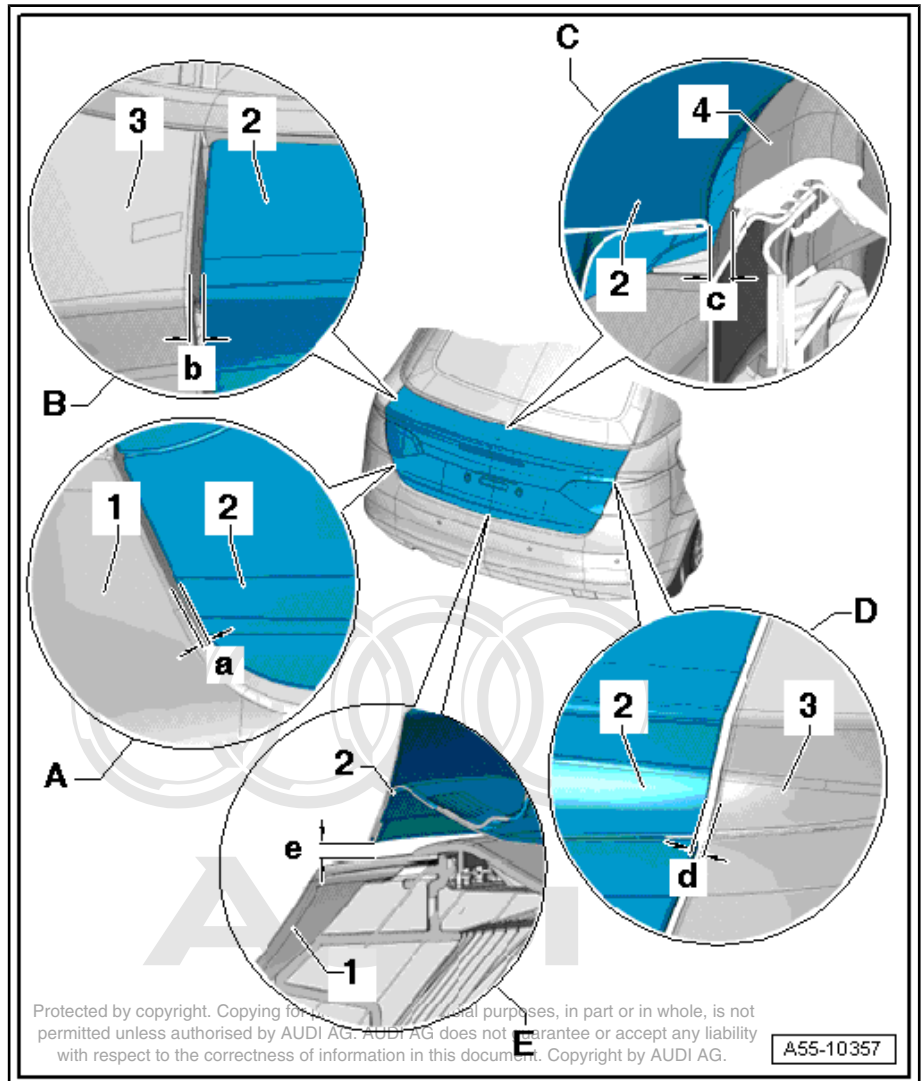
E - Rear lid to bumper cover trim

- Gap width -e- = 4.5 ± 0.5 mm

-1- Bumper cover

-2- Rear lid

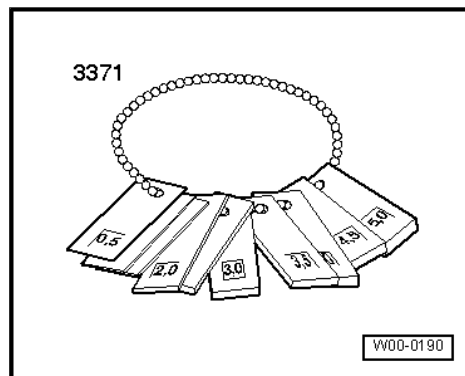
□ Adjusting ⇒ [page 23](#)



2.5 Adjusting rear lid

Special tools and workshop equipment required

◆ Setting gauge - 3371-



Procedure

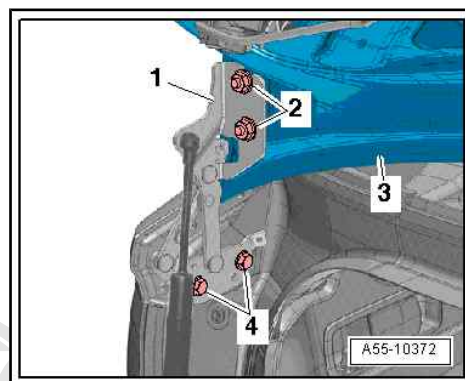
- Gap widths ⇒ [page 22](#)
- Tightening torques ⇒ [page 20](#)

Lateral and longitudinal adjustment at hinge:

- Loosen nuts -2- (left and right) at hinge -1-.
- Adjust rear lid -3- (lateral and longitudinal adjustment).
- Tighten nuts -2-.

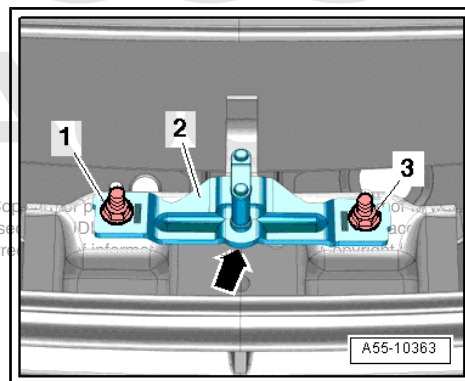
Height adjustment at hinge:

- Unscrew bolts -4- (left and right) for hinge -1-.
- Adjust height of rear lid -3-.
- Tighten bolts -4-.



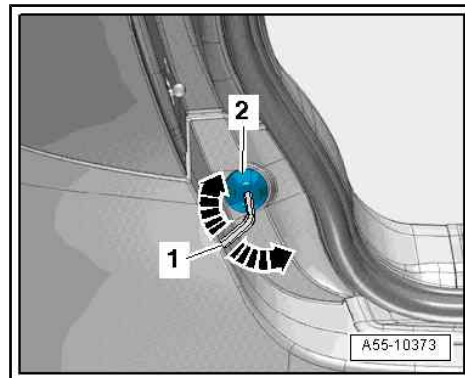
Height adjustment at striker:

- Tightening torque ⇒ [page 20](#)
- Remove rear cross panel trim ⇒ Rep. gr. 70 .
- Loosen nuts -1- and -3- until striker -2- can be moved.
- Closing check for rear lid: Rear lid must fall into rear lid lock from neutral position and engage fully.
- Tighten nuts -1- and -3-.



Adjusting stop buffer:

- Turn adjuster screw for stop buffer -2- with a hexagon key -1- -arrows- until rear lid makes contact when closed.
- The rear lid must make contact with the rear lid stop with slight pre-tension.
- Check that the rear lid makes full contact and closes completely by pressing or pulling the side edges of the rear lid.
- Repeat adjustment if necessary.



2.6 Removing and installing adjusting buffers

Removing



If both adjusting buffers are removed, they must be marked for re-installation.

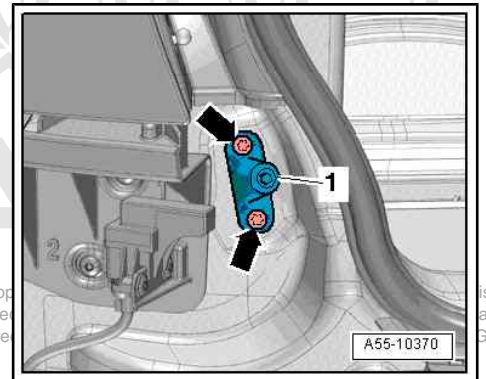
- Open rear lid.
- Remove bumper cover (rear) ⇒ [page 125](#) .
- Remove bolts -arrows-.
- Detach adjusting buffer -1-.

Installing

- Tightening torque ⇒ [page 20](#)

Install in reverse order of removal; note the following:

- Install bumper cover (rear) ⇒ [page 125](#) .
- Set adjusting buffers ⇒ [“2.5 Adjusting rear lid”, page 23](#) .



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2.7 Removing and installing stop buffer

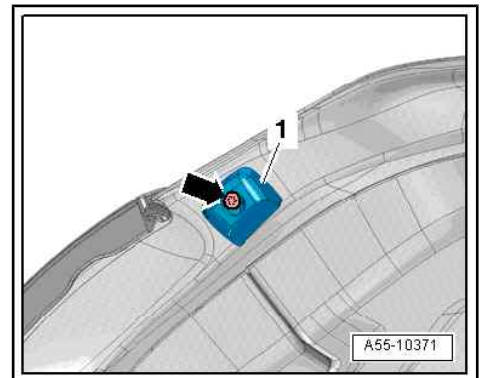
Removing

- Open rear lid.
- Remove bolt -arrow-.
- Remove stop buffer -1-.

Installing

- Tightening torque ⇒ [page 21](#)

Install in reverse order of removal.



2.8 Removing and installing gas strut and releasing gas from gas strut

Removing

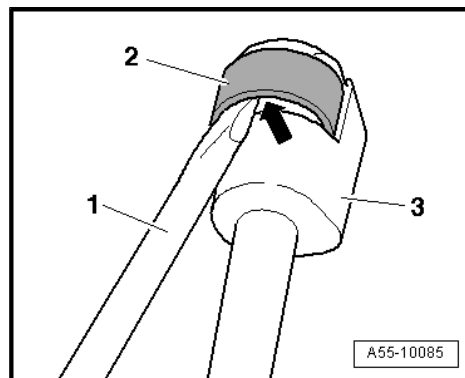


WARNING

Risk of injury!

- ◆ *A second mechanic is required to support and hold the rear lid.*

- Disengage gas strut for rear lid; to do so, lift retaining clip -2- arrow- with a small screwdriver -1- and detach gas strut -3- from ball-head stud.



Installing

Install in reverse order of removal; note the following:

- The cylinder end of the gas strut is installed on the body side.
- Press gas strut onto ball-head stud until it engages audibly.

Releasing gas from gas strut

Gas must be released from the gas strut completely before the gas strut is disposed of.

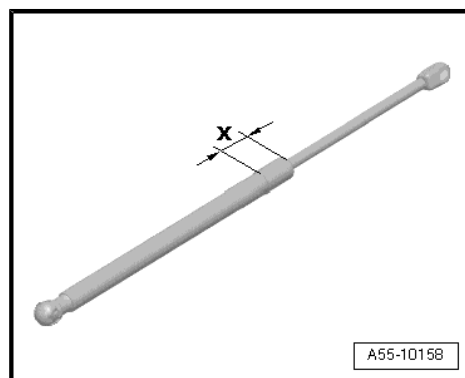
- Clamp section -x- = 50 mm of gas strut in a vice.



WARNING

Risk of injury!

- ◆ *It is important to only clamp this section.*
- ◆ *Always wear safety goggles while sawing.*



Note

Cover area around saw notch with a cloth to catch any escaping fluid.

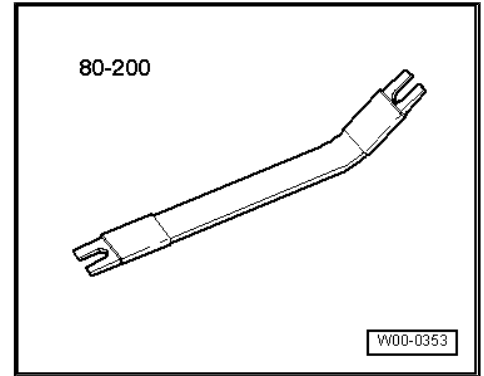
- Saw open first third of cylinder part of gas struts (measured from piston rod end of cylinder).

2.9 Removing and installing cover for water channel

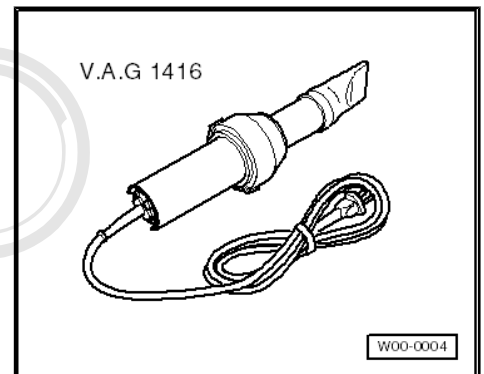
Special tools and workshop equipment required

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◆ Removal lever - 80 - 200-

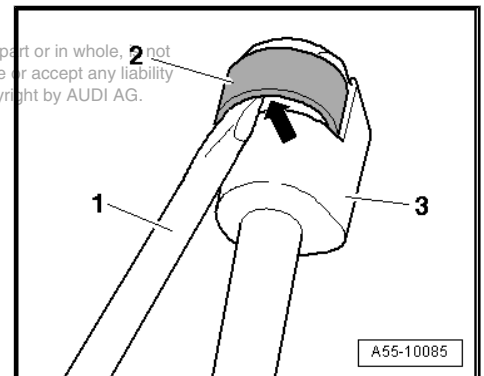


◆ Hot air blower - V.A.G 1416-

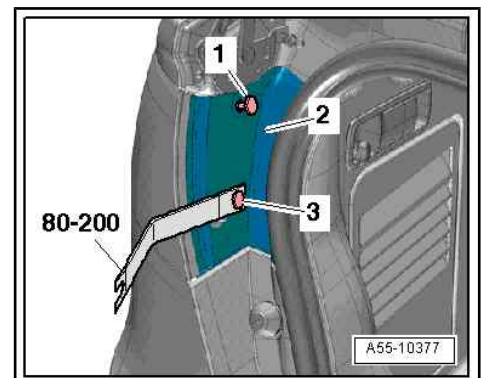


Removing

- Disengage gas strut for rear lid hinge; to do so, lift retaining clip -2- -arrow- with a small screwdriver -1- and detach gas strut -3- from ball-head stud.



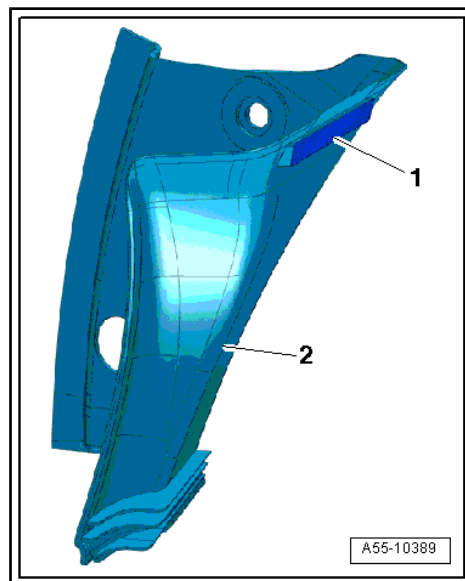
- Prise out fasteners -1- and -3- using removal lever - 80 - 200- and detach.
- Carefully heat upper area of cover -2- for water channel with hot air blower - V.A.G 1416- .
- Carefully pull cover for water channel off body.



Installing

Install in reverse order of removal; note the following:

- Clean bonding surface on body with cleaning solution - D 009 401 04- .
- Peel protective film off adhesive strip -1-.
- Fit cover -2- for water channel on body and secure with fasteners.
- Press cover for water channel completely onto body.



2.10 Exploded view - lock cylinder, handle trim, rear lid lock and striker

1 - Lock cylinder

- ☐ Removing and installing
⇒ [page 32](#)

2 - Anti-theft bracket (left-side) with nut

- ☐ 4 Nm
- ☐ Removing and installing
⇒ ["2.15 Removing and installing handle trim"](#),
[page 32](#)

3 - Cap nut

- ☐ 4 Nm

4 - Rear lid

- ☐ Removing and installing
⇒ [page 21](#)
- ☐ Adjusting ⇒ [page 23](#)

5 - Rear lid lock

- ☐ With rear lid contact switch for anti-theft alarm - F123-
- ☐ Removing and installing
⇒ [page 29](#)

6 - Nut

- ☐ 21 Nm

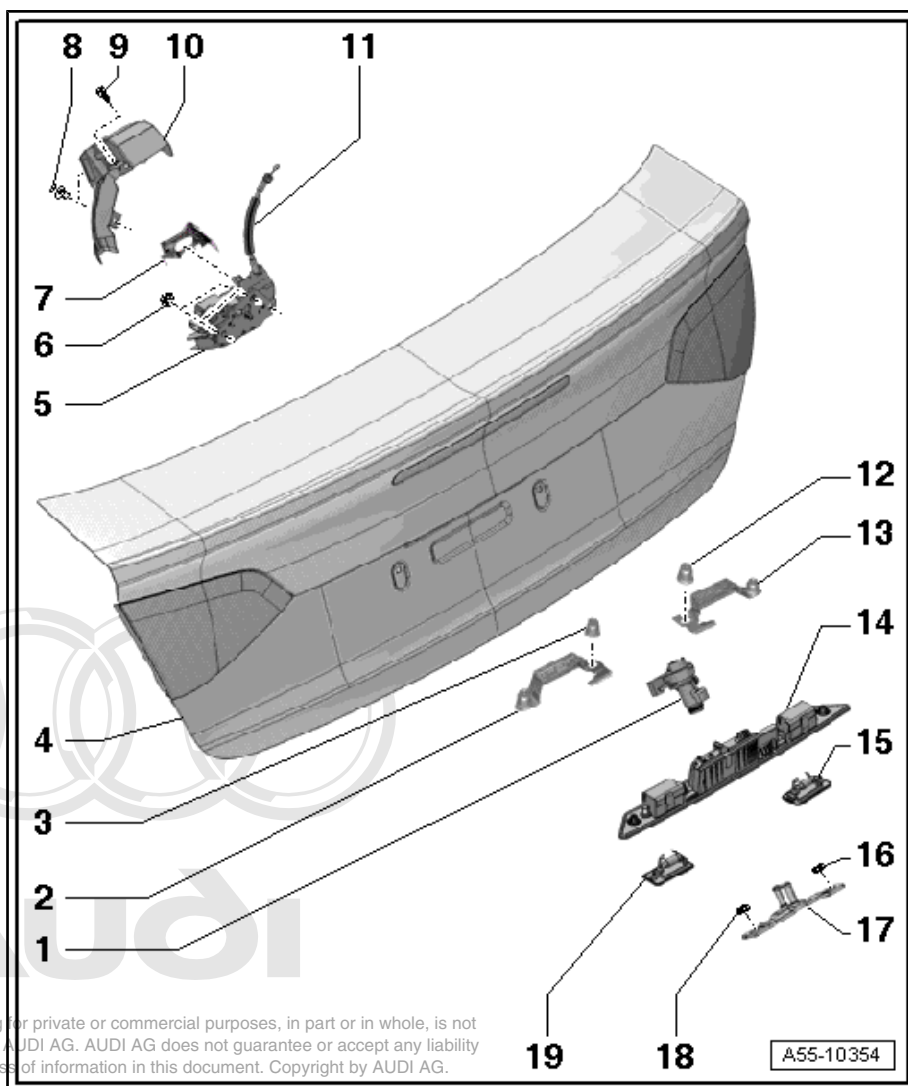
7 - Anti-theft bracket

- ☐ For rear lid lock
- ☐ Removing and installing
⇒ ["2.13 Removing and installing cable for rear lid lock"](#), [page 31](#)

8 - Fastener

9 - Bolt

- ☐ 5 Nm



10 - Anti-theft bracket

- ☐ For lock cylinder
- ☐ Removing and installing ⇒ [“2.14 Removing and installing lock cylinder”, page 32](#)

11 - Cable

- ☐ For rear lid lock
- ☐ Removing and installing ⇒ [page 31](#)

12 - Cap nut

- ☐ 4 Nm

13 - Anti-theft bracket (right-side) with nut

- ☐ 4 Nm
- ☐ Removing and installing ⇒ [“2.15 Removing and installing handle trim”, page 32](#)

14 - Handle trim

- ☐ With rear lid handle release button - E234- , cannot be renewed separately
- ☐ Removing and installing ⇒ [page 32](#)

15 - Number plate light (right-side)

16 - Nut

- ☐ 21 Nm

17 - Striker

- ☐ Removing and installing ⇒ [page 30](#)
- ☐ Adjusting ⇒ [page 30](#)

18 - Nut

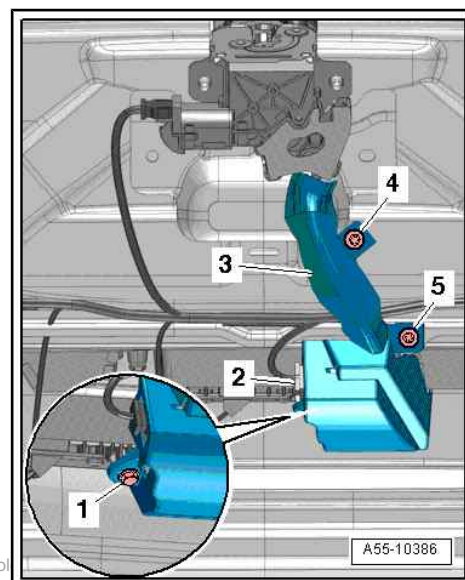
- ☐ 21 Nm

19 - Number plate light (left-side)

2.11 Removing and installing rear lid lock

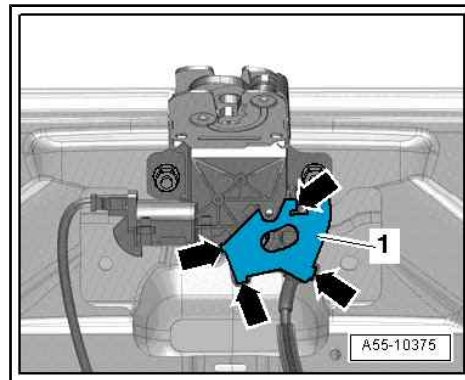
Removing

- Remove rear lid trim ⇒ Rep. gr. 70 .
- Unplug electrical connector -2-.
- Unscrew fasteners -4- and -5- and remove.
- Unscrew bolt -1- at lock cylinder and detach anti-theft bracket -3- for lock cylinder.
- Disengage cable at lock cylinder.



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- Detach anti-theft bracket -1- for rear lid lock; to do so, press together retaining clips -arrows- and detach anti-theft bracket.



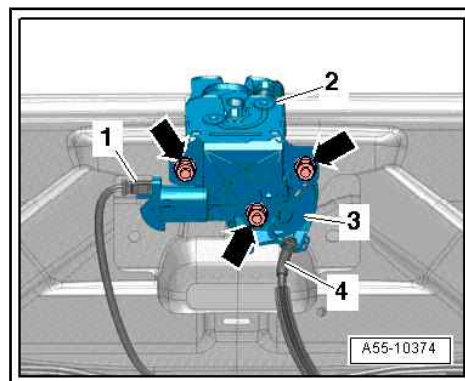
- Unplug electrical connector -1-, unscrew nuts -arrows- and detach rear lid lock -2-.
- Pull support bracket -4- for cable off mounting for rear lid lock.
- Disengage cable at operating lever -3-.

Installing

- Tightening torque ⇒ [page 28](#)

Install in reverse order of removal; note the following:

- Install anti-theft bracket for lock cylinder ⇒ [page 31](#) .
- Install rear lid trim ⇒ Rep. gr. 70 .



2.12 Removing and installing striker

Removing

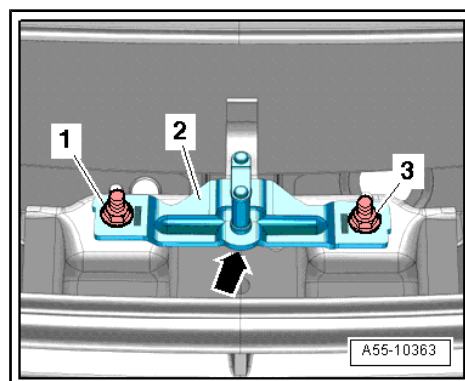
- Remove rear cross panel trim ⇒ Rep. gr. 70 .
- Unscrew nuts -1- and -3- and detach striker -2-.

Installing

- Tightening torque ⇒ [page 28](#)

Install in reverse order of removal; note the following:

- Insert striker, making sure it is positioned correctly.
- The round side -arrow- of the striker must face upwards.
- Adjust striker ⇒ [page 23](#) .

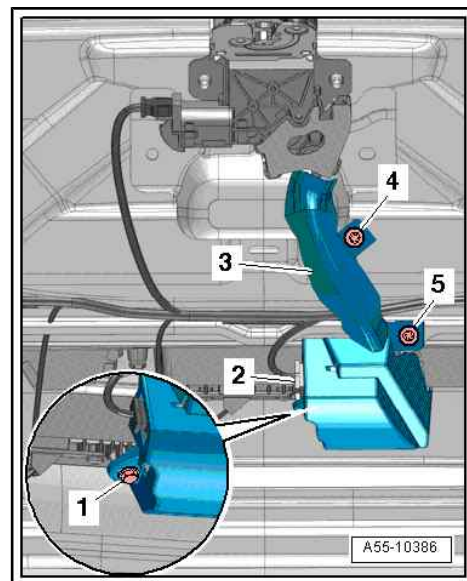


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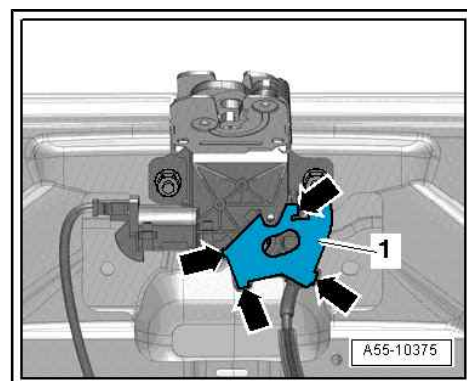
2.13 Removing and installing cable for rear lid lock

Removing

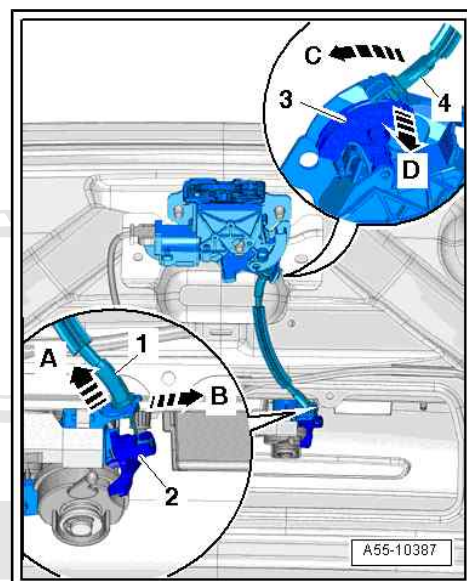
- Remove rear lid trim ⇒ Rep. gr. 70 .
- Unplug electrical connector -2-.
- Unscrew fasteners -4- and -5- and remove.
- Unscrew bolt -1- at lock cylinder and detach anti-theft bracket -3- for lock cylinder.



- Detach anti-theft bracket -1- for rear lid lock; to do so, press together retaining clips -arrows- and detach anti-theft bracket.



- Release locking lever -arrow A- and pull support bracket -1- for cable off mounting bracket -arrow B-.
- Disengage cable at operating lever -2-.
- Pull support bracket -4- for cable off mounting for rear lid lock -arrow C-.
- Disengage cable at operating lever -3- -arrow D-.
- Detach cable.



Installing

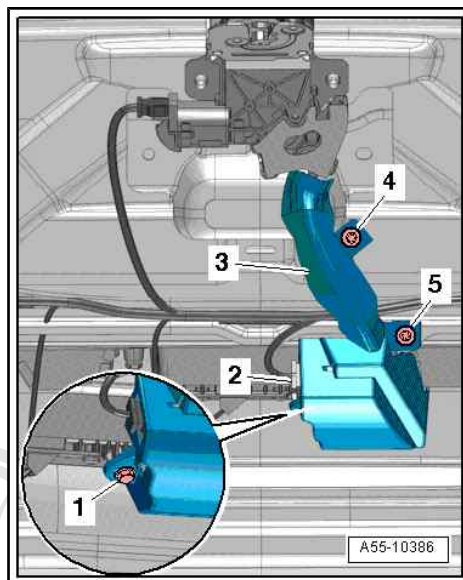
Install in reverse order of removal; note the following:

- Install rear lid trim ⇒ Rep. gr. 70 .

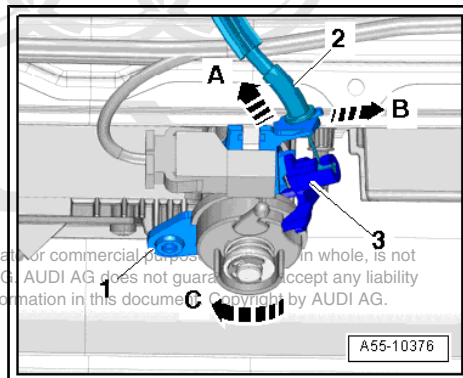
2.14 Removing and installing lock cylinder

Removing

- Remove rear lid trim ⇒ Rep. gr. 70 .
- Unplug electrical connector -2-.
- Unscrew fasteners -4- and -5- and remove.
- Unscrew bolt -1- at lock cylinder and detach anti-theft bracket -3- for lock cylinder.



- Release locking lever -arrow A- and pull support bracket -2- for cable off mounting bracket -arrow B-.
- Disengage cable at operating lever -3-.
- Turn lock cylinder -1- in clockwise direction -arrow C- and take out of handle trim.



Installing

- Tightening torque ⇒ [page 28](#)

Install in reverse order of removal; note the following:

- Install rear lid trim ⇒ Rep. gr. 70 .

2.15 Removing and installing handle trim

Removing

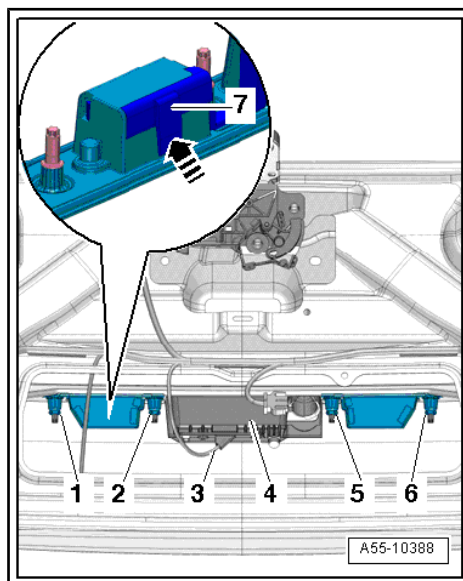
- Remove lock cylinder ⇒ [page 32](#) .
- Unscrew cap nuts -2- and -5-.
- Unscrew cap nuts -1- and -6- and detach together with anti-theft bracket.
- Unplug electrical connector -3- at rear lid handle release button - E234- -item 4-.
- Press together retaining springs -7- at housing for number plate light -arrow- and take handle trim downwards out of opening in body.

Installing

- Tightening torque ⇒ [page 28](#)

Install in reverse order of removal; note the following:

- Install lock cylinder ⇒ [page 32](#) .



3 Tank flap

3.1 Exploded view - tank flap, tank flap unit and manual release mechanism

1 - Trim for tank flap unit

- ☐ Removing and installing
⇒ [page 34](#)

2 - Tank flap unit

- ☐ Removing and installing
⇒ [page 34](#)

3 - Seal

4 - Filler cap

- ☐ With retaining strap

5 - Bolt

- ☐ 1 Nm

6 - Operating rod

- ☐ For tank flap locking mechanism
- ☐ Can only be renewed together with tank filler flap locking motor - V155-
- ☐ Removing and installing
⇒ [page 34](#)

7 - Tank filler flap locking motor - V155-

- ☐ Removing and installing
⇒ [page 34](#)

8 - Guide

- ☐ For manual release cable

9 - Manual release cable

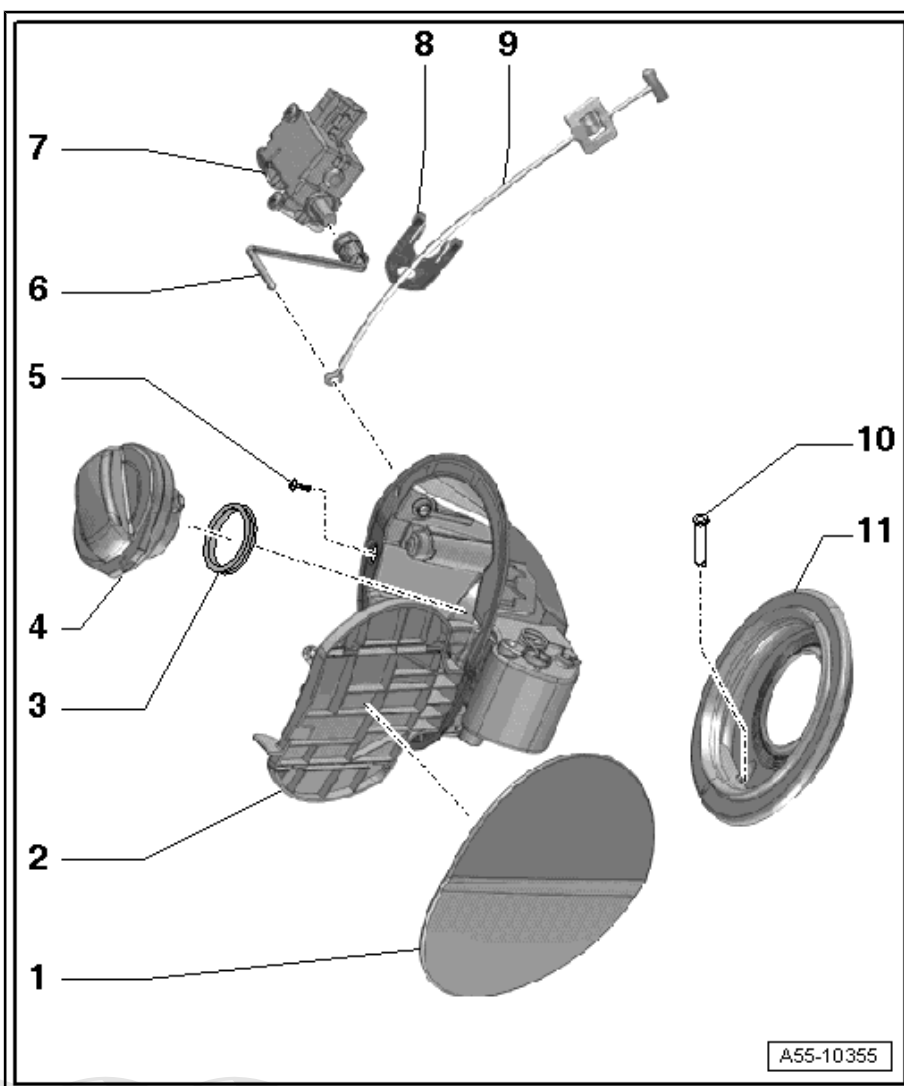
- ☐ For opening tank flap
- ☐ Removing and installing
⇒ [page 34](#)

10 - Drain hose

- ☐ From tank flap unit
- ☐ Removing and installing ⇒ [page 37](#)

11 - Tank flap cup

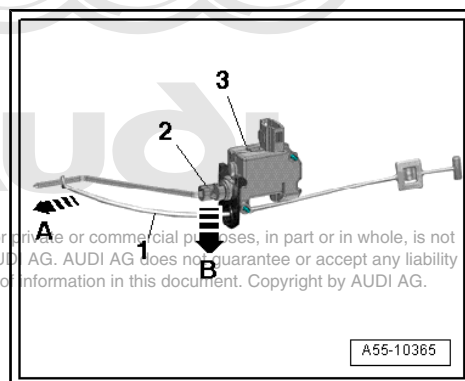
- ☐ For filler neck for fuel tank
- ☐ Removing and installing ⇒ [page 36](#)



3.2 Removing and installing operating rod with manual release cable for tank flap release

Removing

- Open cover for luggage compartment side trim.
- Remove tank filler flap locking motor - V155- ⇒ [page 69](#) .
- Disengage manual release cable -1- at operating rod -arrow A-.
- Press connecting adapter -2- for operating rod (for releasing tank flap) off tank filler flap locking motor - V155- item 3- -arrow B- and detach operating rod.



Installing

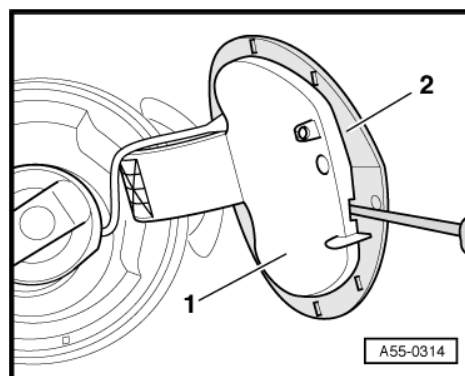
Install in reverse order of removal; note the following:

- Install tank filler flap locking motor - V155- ⇒ [page 69](#) .

3.3 Removing and installing trim for tank flap unit

Removing

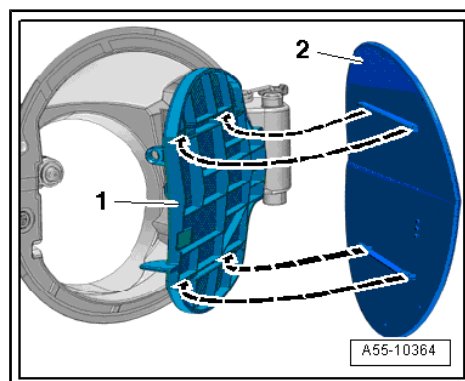
- Open tank flap.
- Use a screwdriver to release retaining clip in recess between trim panel -2- and tank flap unit -1-.
- Pull trim slightly off tank flap unit towards rear and detach.



Installing

Install in reverse order of removal; note the following:

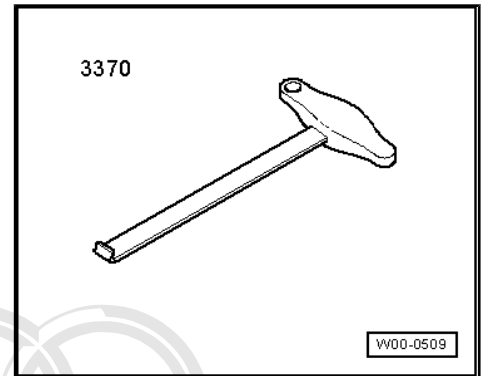
- When fitting trim panel onto tank flap unit -1-, guides on trim panel -2- must be applied behind mounting points -arrows-, as shown in illustration.
- Slide trim panel forwards until retaining clip engages audibly.
- Check gap widths ⇒ [page 35](#) .



3.4 Removing and installing tank flap unit

Special tools and workshop equipment required

◆ Front-end hook - 3370-



Removing

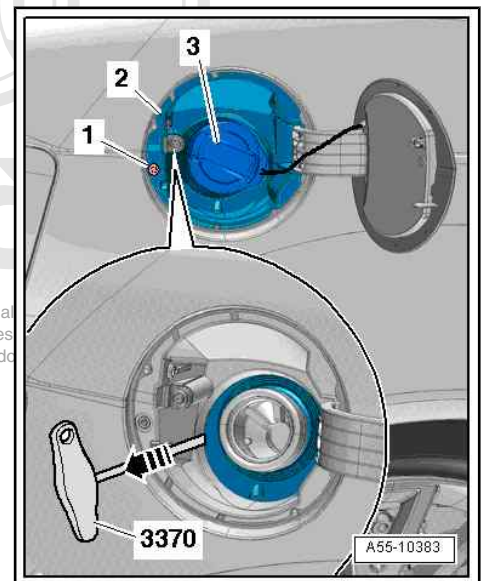
- Remove tank filler flap locking motor - V155- ➔ [page 69](#) .
- Remove trim for tank flap unit ➔ [page 34](#) .
- Remove filler cap -3- for filler neck of fuel tank.
- Remove bolt -1-.
- Pull tank flap unit -2- out of opening in body with front-end hook - 3370- .

Installing

- Tightening torque ➔ [page 33](#)

Install in reverse order of removal; note the following:

- Install trim for tank flap unit ➔ [page 34](#) .
- Install tank filler flap locking motor - V155- ➔ [page 69](#) .



3.5 Gap widths at tank flap

A - Trim for tank flap unit to side panel

- Gap width -a- = 2.3 ± 0.2 mm (all around)

-1- Side panel

-2- Trim for tank flap unit

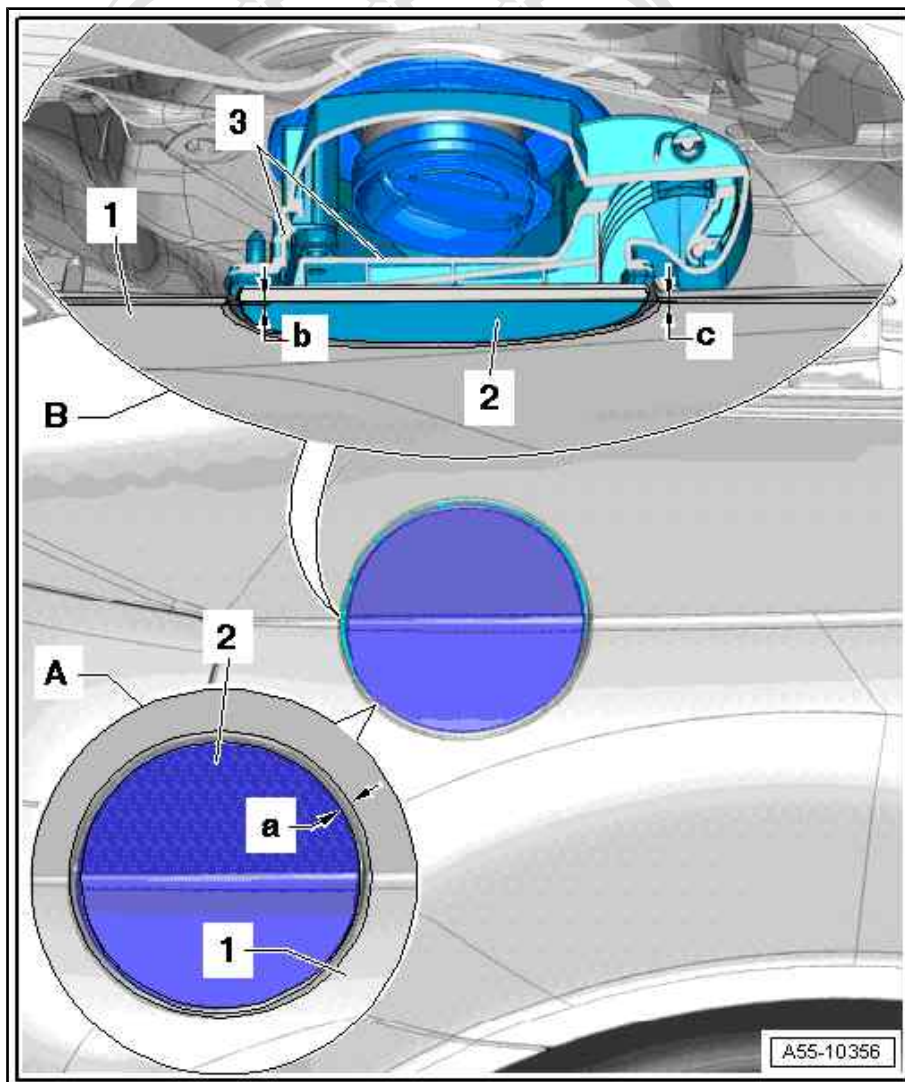
B - Tank flap unit to side panel

- Dimension -b- = 0.25 ± 0.25 mm
- Dimension -c- = 0.25 ± 0.25 mm

-1- Side panel

-2- Trim for tank flap unit

-3- Tank flap unit



3.6 Removing and installing tank flap cup for filler neck of fuel tank

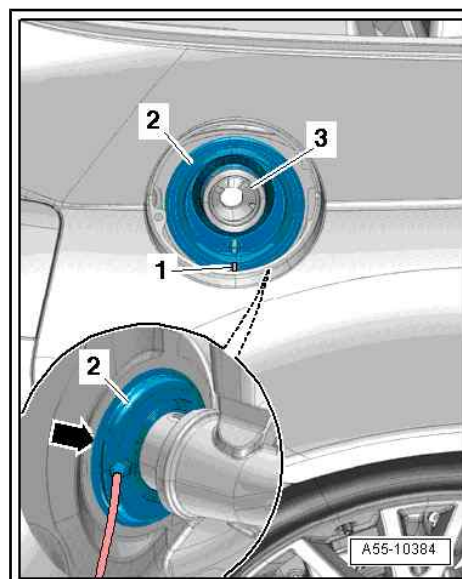
Procedure

- Remove tank flap unit ⇒ [page 34](#) .
- Remove drain hose for tank flap cup for filler neck of fuel tank ⇒ [page 37](#) .
- Pull tank flap cup -2- off filler neck -3- of fuel tank and detach tank flap cup.

Installing

Install in reverse order of removal; note the following:

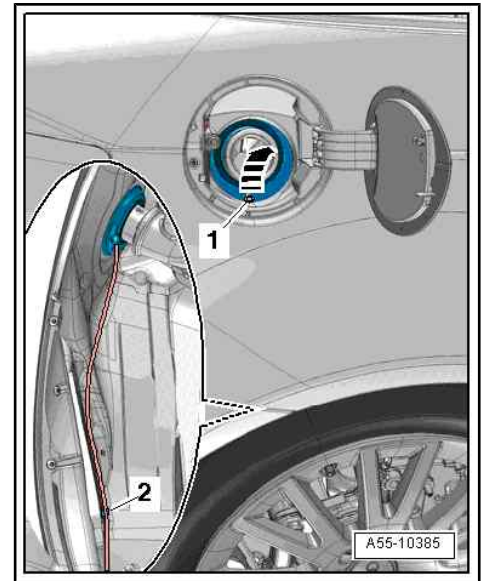
- Slide tank flap cup onto filler neck of fuel tank.
- Marking -1- on tank flap cup must be pointing vertically down.
- Make sure that rubber lip -arrow- in wheel housing makes full contact with body.
- Install drain hose for tank flap cup for filler neck of fuel tank ⇒ [page 37](#) .
- Install tank flap unit ⇒ [page 34](#) .



3.7 Removing and installing drain hose for tank flap cup for filler neck of fuel tank

Removing

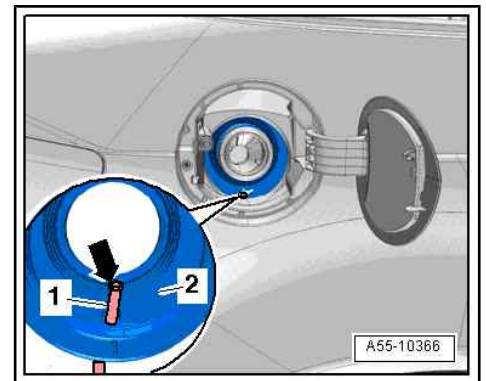
- Remove wheel housing liner (rear right) ⇒ [page 195](#) .
- Take drain hose -1- out of retaining clip -2-.
- Pull drain hose upwards out of tank flap cup -arrow-.



Installing

Install in reverse order of removal; note the following:

- Slide drain hose -1- into tank flap cup -2- from above.
- Collar -arrow- of drain hose must be at the top.
- Install wheel housing liner (rear right) ⇒ [page 195](#) .



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57 – Front doors, door components, central locking

1 Front door

1.1 Exploded view - front door

1 - Front door

- ❑ Removing and installing
⇒ [page 39](#)
- ❑ Adjusting
⇒ ["1.3 Gap widths at door", page 39](#)

2 - Door hinge (bottom)

3 - Retaining clip

- ❑ Only fitted on replacement part
- ❑ Detach after installing new hinge

4 - Cap

- ❑ Attach to hinge pin

5 - Bolt

- ❑ 34 Nm

6 - Door hinge (top)

7 - Bolt

- ❑ 34 Nm

8 - Bolt

- ❑ 34 Nm

9 - Bolt

- ❑ 25 Nm

10 - Cap

- ❑ Attach to grub screw

11 - Bolt

- ❑ 32 Nm

12 - Bolt

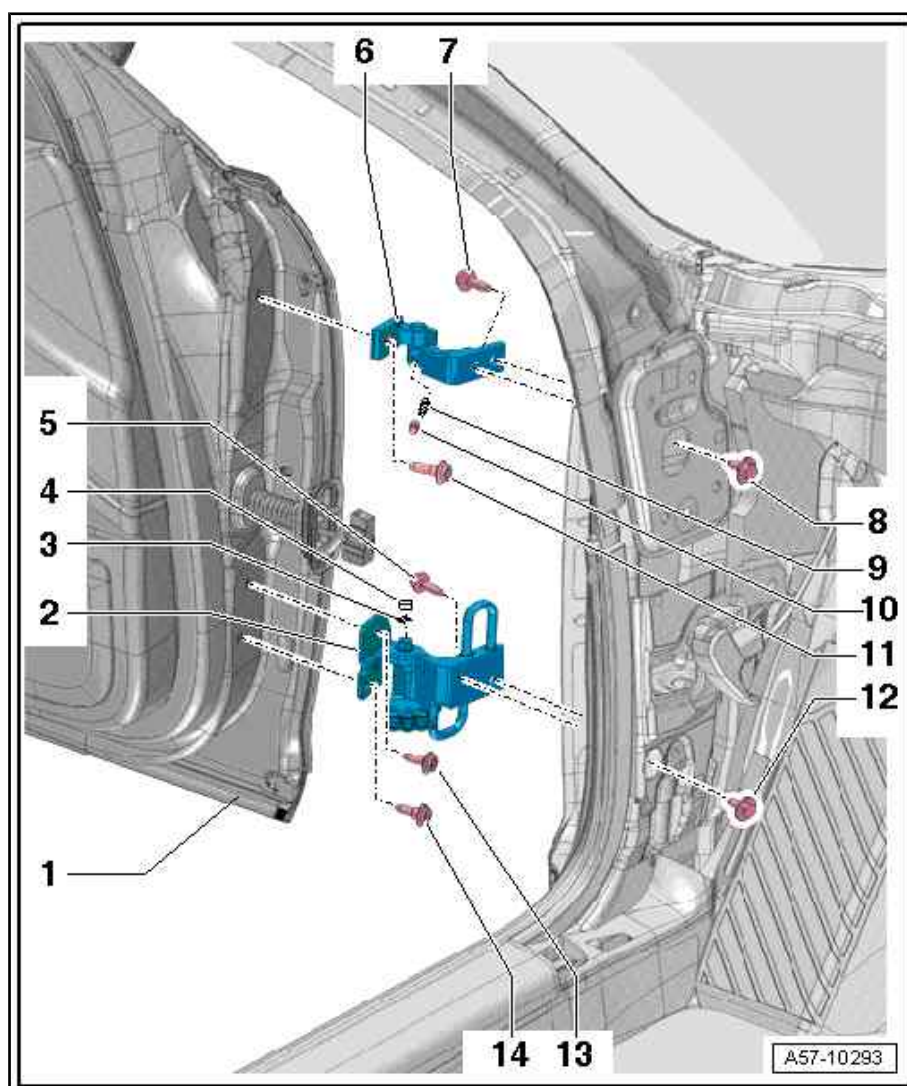
- ❑ 34 Nm

13 - Bolt

- ❑ 32 Nm

14 - Bolt

- ❑ 32 Nm



1.2 Removing and installing front door

Removing

- Unplug main connector for door at A-pillar ⇒ Rep. gr. 97 .
- Detach cap -1- from grub screw.
- Remove grub screw -2- at door hinge (top).
- Detach cap -3- from hinge pin.
- Unscrew bolt -4- at door hinge (bottom).



Caution

Risk of paintwork damage.

- ◆ *Protect paintwork on door or side panel from damage.*

- Carefully lift door off hinges.

Installing

- Tightening torques ⇒ [page 38](#)

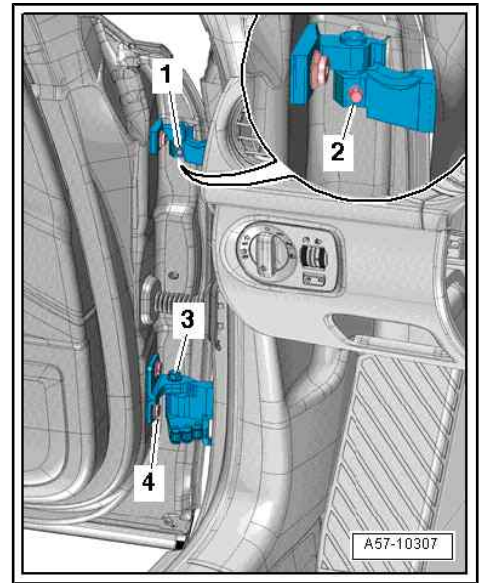
Install in reverse order of removal; note the following:



Note

No adjustment has to be performed after the front door has been installed.

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1.3 Gap widths at door

A - Door to front wing

- Gap width -a- = 3.5 ± 0.5 mm
- Dimension -b- = $0 + 1.0$ mm
- Parallel adjustment = 1.0 mm

-1- Door

-2- Front wing

□ Adjusting ⇒ [page 40](#)

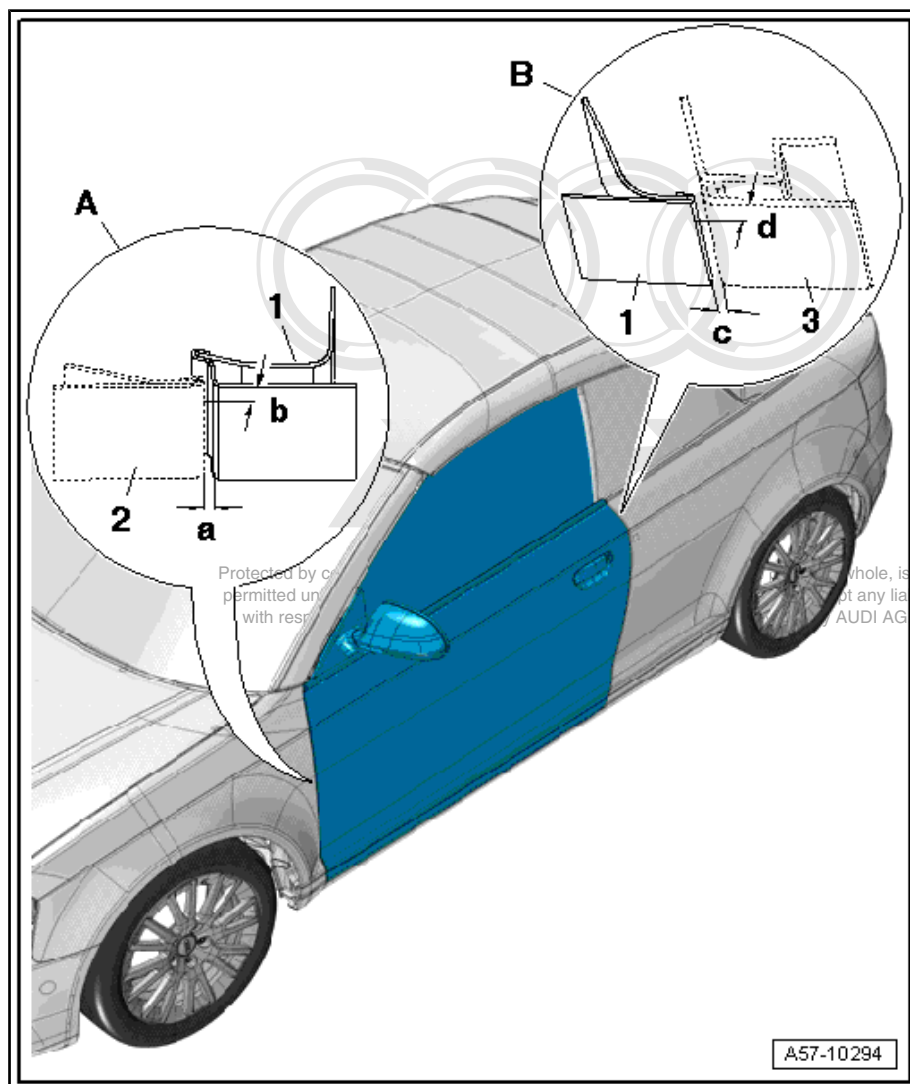
B - Door to side panel (rear)

- Gap width -c- = 3.5 ± 0.5 mm
- Dimension -d- = $0 + 1.0$ mm
- Parallel adjustment = 1.0 mm

-1- Door

-3- Side panel (rear)

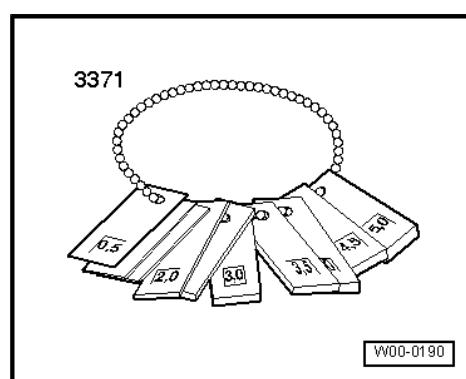
□ Adjusting ⇒ [page 40](#)



1.4 Adjusting door

Special tools and workshop equipment required

- ◆ Setting gauge - 3371-



Procedure

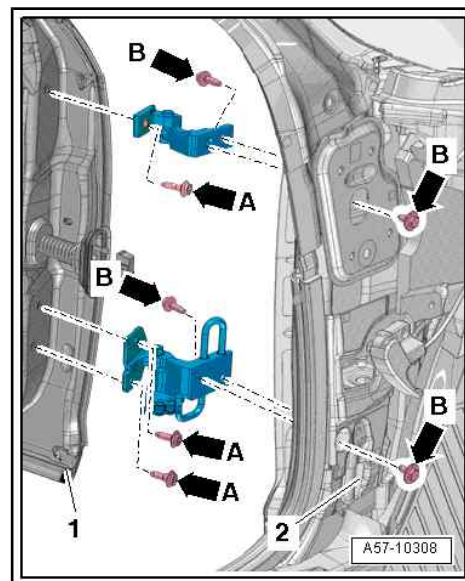
- Gap widths ⇒ [page 39](#)

Longitudinal adjustment:

- Remove central tube for dash panel ⇒ Rep. gr. 70 .
- Remove A-pillar trim (bottom) ⇒ Rep. gr. 70 .
- Loosen bolts (top and bottom) -arrows B- at hinge and A-pillar -2-.
- Adjust door -1- lengthwise.
- Tighten bolts -arrows B-.
- Tightening torque ⇒ [page 38](#)

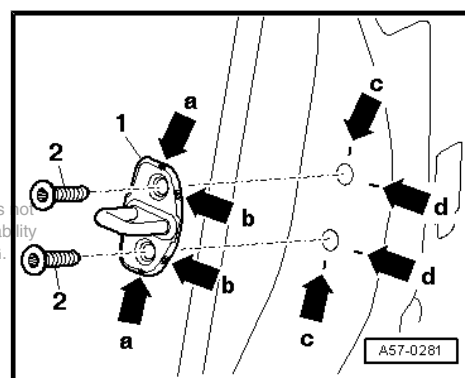
Adjustment towards centre of vehicle:

- Loosen bolts (top and bottom) -arrows A- at hinge.
- Adjust door -1- towards centre of vehicle.
- Tighten bolts -arrows A-.
- Tightening torque ⇒ [page 38](#)



Adjustment via striker:

- Loosen bolts -2-.
- Refer to marks on striker -arrows a- and on body -arrows c- for lateral adjustment.
- The striker is only to be used for adjustment towards the centre of the vehicle.
- Move striker -1- until door is flush with body contour.



Caution

Risk of damage to door lock.

- ◆ **Do not attempt to adjust the height of the door via the striker.**

- Refer to marks on striker -arrows b- and on body -arrows d- for adjustment of height.
- If adjustment is correct, striker should engage centrally in door lock.
- Tighten bolts -2-.
- Tightening torque ⇒ [Item 4 \(page 56\)](#)

1.5 Exploded view - window regulator motor and window regulator

1 - Window regulator

- ☐ Removing and installing
⇒ [page 44](#)

2 - Centre hex stud

3 - Door window

- ☐ Removing and installing
⇒ [page 156](#)

4 - Centre hex stud

5 - Retaining clip

6 - Door

7 - Nut

- ☐ 9 Nm

8 - Sealing plug

9 - Window regulator motor

- ☐ With door control unit
- ☐ Driver side window regulator motor - V147-
- ☐ Front passenger side window regulator motor - V148-
- ☐ Removing and installing
⇒ [page 42](#)

10 - Bolt

- ☐ 3.5 Nm

11 - Nut

- ☐ 8 Nm

12 - Sealing plug

13 - Nut

- ☐ 9 Nm

14 - Sealing plug

15 - Cable for interior door handle

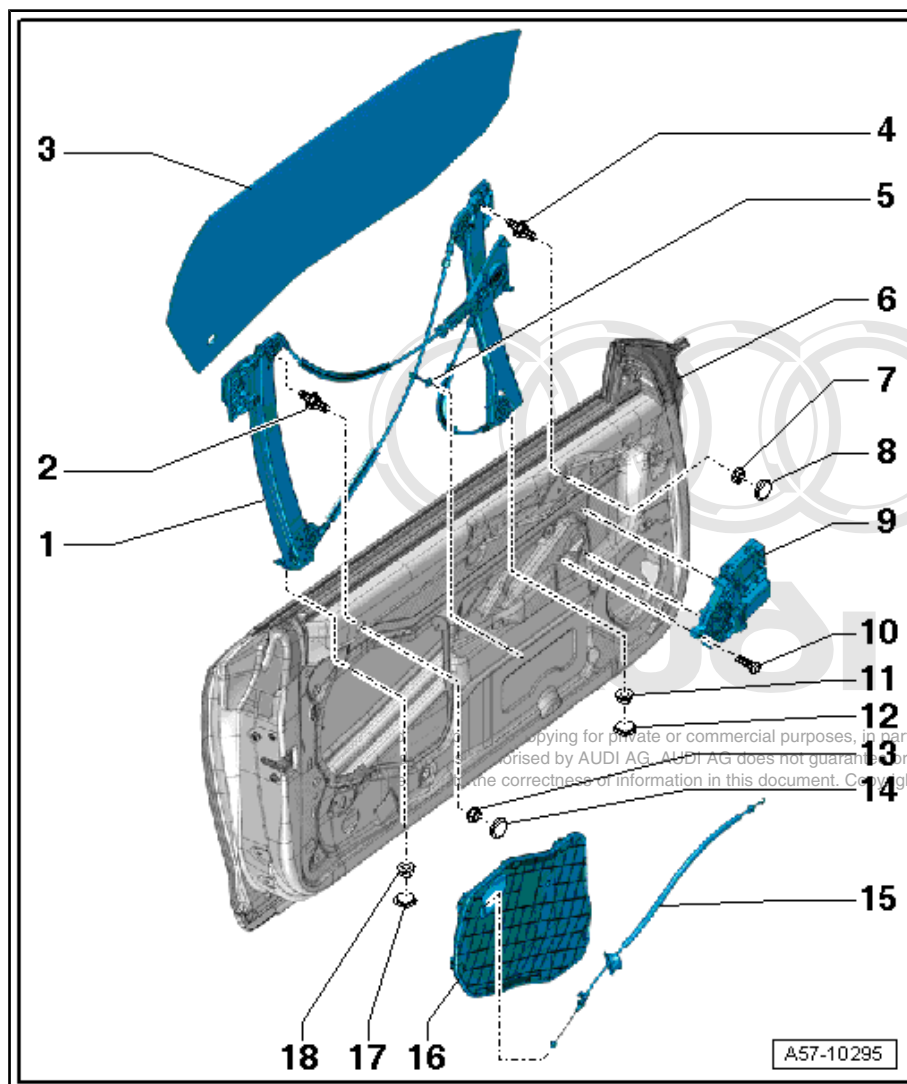
16 - Cover panel

- ☐ Clipped into door
- ☐ Removing and installing ⇒ [page 43](#)

17 - Sealing plug

18 - Nut

- ☐ 8 Nm



1.6 Removing and installing window regulator motor -V147- / -V148-

Removing



Note

The window regulator motor can be removed or installed with the motor or door window in any position.

- Remove door trim ⇒ Rep. gr. 70 .
- Unplug electrical connectors -2- and -3- for door control unit; to do so, move locking element towards rear and press release mechanism downwards.
- Remove bolts -arrows-.
- Detach window regulator motor -1- from window regulator.

Installing

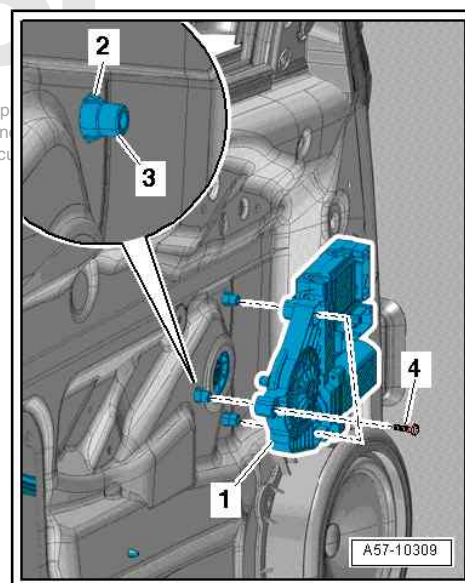
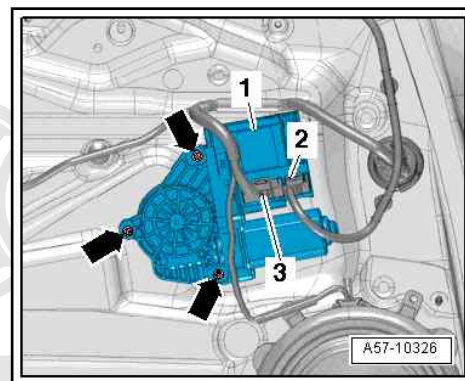
- Tightening torque ⇒ [page 41](#)

Install in reverse order of removal; note the following:

- Retaining clips -2- of threaded pins -3- for window regulator must be engaged in inner door panel.
- Slide window regulator motor -1- onto threaded pins and tighten bolts -4-.

Activating basic setting

- With the window regulator switches connected, switch on the ignition and raise the door windows as far as they will go.
- Keep the window regulator switches pulled for approx. another 2 seconds to activate the basic setting and the open/close function.



1.7 Removing and installing cover panel for door shell

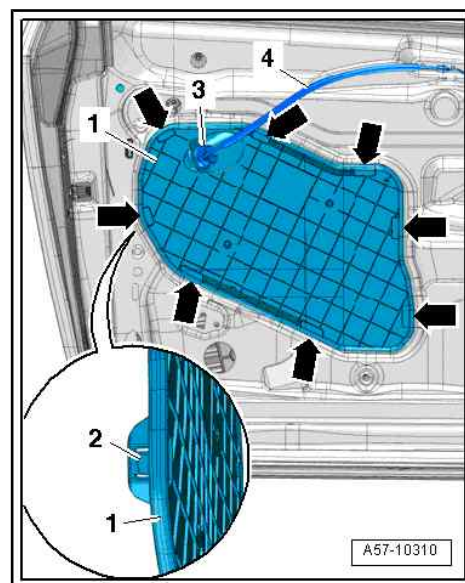
Removing

- Remove door trim ⇒ Rep. gr. 70 .
- Release retaining clips -2- at locations marked with -arrows- and detach cover panel -1- for door shell.
- Disengage grommet -3- for operating cable -4- for door handle from cover panel for door shell.

Installing

Install in reverse order of removal; note the following:

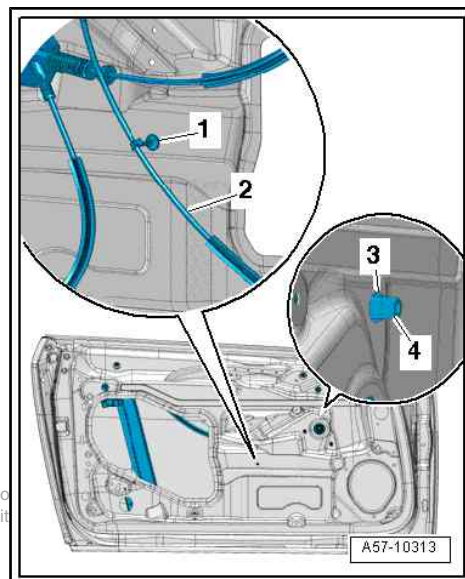
- Press on cover panel for door shell until it engages audibly.
- Install door trim ⇒ Rep. gr. 70 .



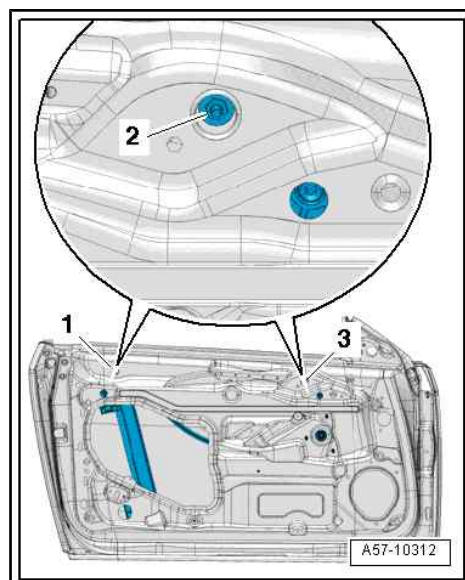
1.8 Removing and installing window regulator

Removing

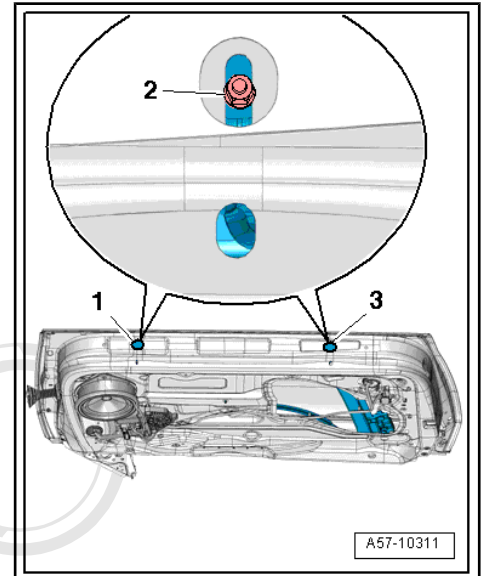
- Lower loudspeaker removed.
- Remove window regulator motor ⇒ [page 42](#) .
- Remove door window ⇒ [page 156](#) .
- Use an 11 mm socket attachment to release fasteners -3- of threaded pins for window regulators; to do so, position socket attachment on threaded pin -4-.
- Unclip cable -2- from retainer -1-.



- Remove sealing plugs (top) -1- and -3-.
- Unscrew nuts (top) -2- for window regulator.



- Take out sealing plugs -1- and -3- at bottom edge of door.
- Remove nuts (bottom) -2- for window regulator by reaching through large holes.
- Take window regulator out of opening towards rear.



Installing

- Tightening torque ⇒ [page 41](#)

Install in reverse order of removal; note the following:

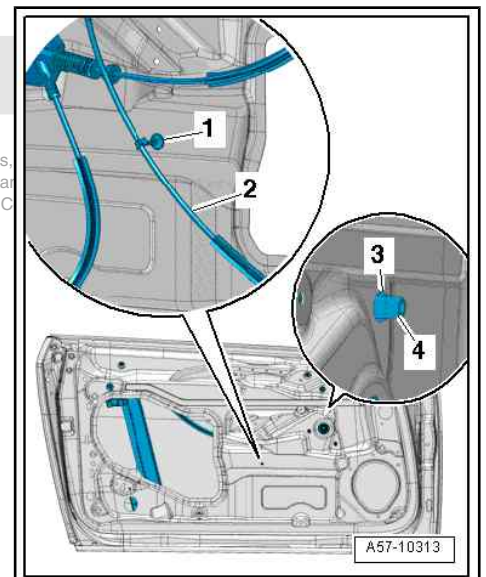
- Threaded pins -4- for window regulator must be engaged in inner door panel.



Note

Other -items- can be disregarded.

- Adjusting door window: lateral adjustment ⇒ [page 158](#) , height adjustment ⇒ [page 160](#) .



1.9 Exploded view - outer and inner window slot trim strips and exterior mirror seal

1 - Inner window slot trim strip

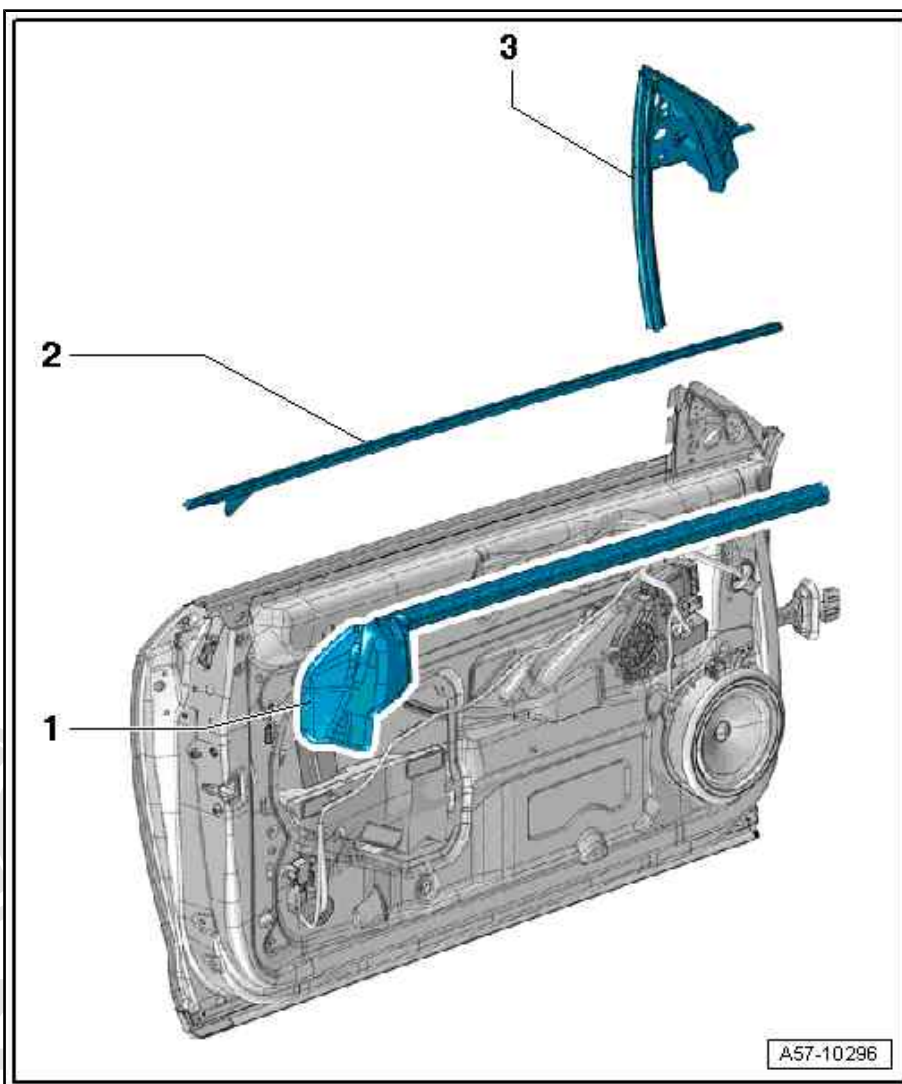
- ☐ With sealing element
- ☐ Removing and installing
⇒ [page 47](#)

2 - Outer window slot trim strip

- ☐ Removing and installing
⇒ [page 46](#)

3 - Exterior mirror seal

- ☐ With inner window guide strip
- ☐ Removing and installing
⇒ [page 48](#)



1.10 Removing and installing outer window slot trim strip

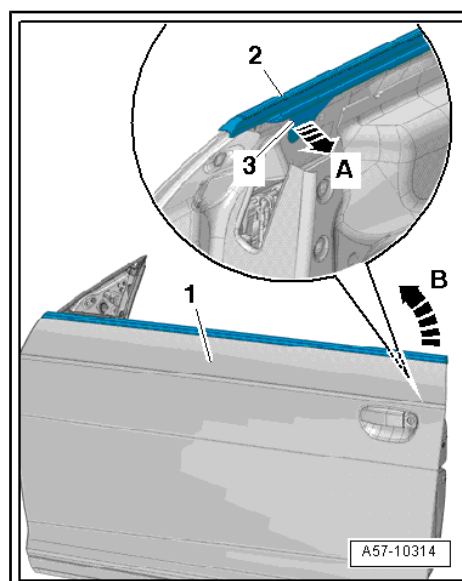
Removing

- Move door window to “open” position.
- Remove exterior mirror ⇒ [page 177](#) .
- Pull interior retaining lug -3- off door shell -arrow A-.
- Starting at rear on outside, detach window slot trim strip -2- upwards from door -1- -arrow B-.

Installing

Install in reverse order of removal; note the following:

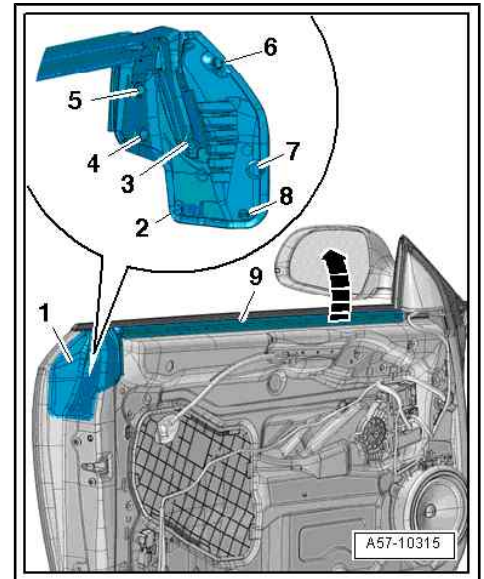
- Outer window slot trim strip must be pressed into place fully by hand, starting on door at B-pillar.
- The retaining lug must be pressed on completely.
- Install exterior mirror ⇒ [page 125](#) .



1.11 Removing and installing inner window slot trim strip

Removing

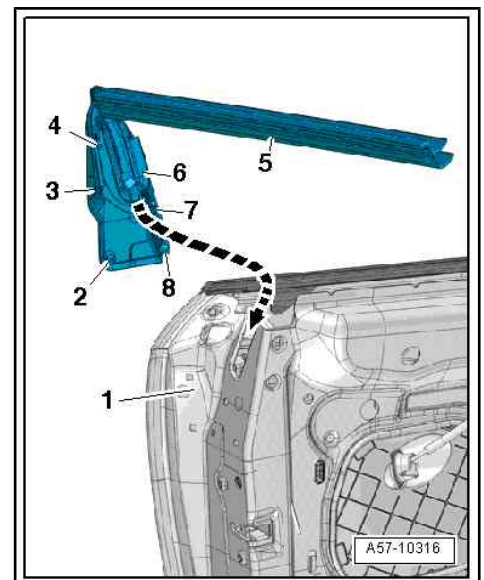
- Remove door trim ⇒ Rep. gr. 70 .
- Pull retaining lugs -2, 4, 5, 6, 7, 8- on sealing element -1- of window slot trim strip off door shell.
- Pull off window slot trim strip -9- upwards -arrow-; rubber lug -3- will automatically be pulled out of door shell.



Installing

Install in reverse order of removal; note the following:

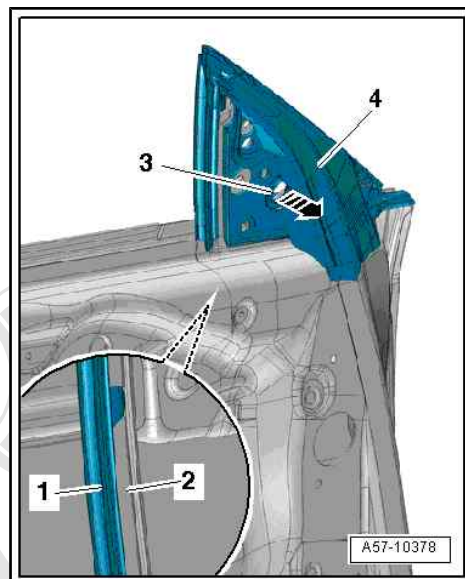
- Fit sealing element on door 1 to do so, engage rubber lug 7 into mounting on door shell and press retaining lugs -2, 3, 4, 6, 8- on completely.
- Slide inner window slot trim strip -5- onto door seam.
- Install door trim ⇒ Rep. gr. 70 .



1.12 Removing and installing exterior mirror seal

Removing

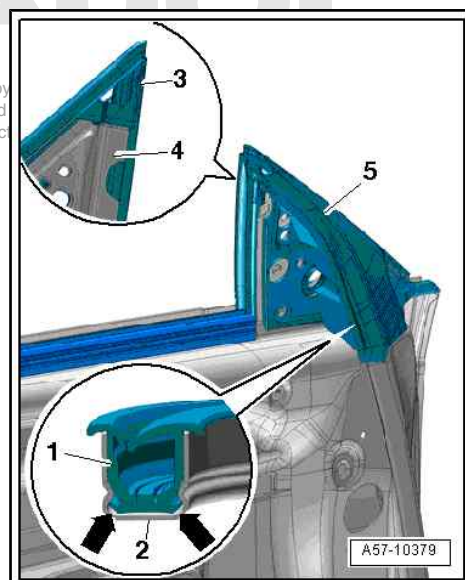
- Remove door trim ⇒ Rep. gr. 70 .
- Remove exterior mirror ⇒ [page 177](#) .
- Remove outer window slot trim strip ⇒ [page 46](#) .
- Remove door window ⇒ [page 156](#) .
- Pull retaining lugs -3- off door shell -arrow-.
- Detach exterior mirror seal -4- upwards off door shell; window guide strip -1- will automatically be pulled out of guide rail -2- for door window.



Installing

Install in reverse order of removal; note the following:

- Slide exterior mirror seal -5- onto front of door shell -4-, making sure tip -3- is correctly positioned.
- Remove bass loudspeaker ⇒ Rep. gr. 91 .
- Reach through opening and insert window guide strip -1- into guide rail -2- for door window.
- You should feel the retaining wedges -arrows- engage in the guide rail.
- Install bass loudspeaker ⇒ Rep. gr. 91 .
- Install door window ⇒ [page 156](#) .
- Install outer window slot trim strip ⇒ [page 46](#) .
- Install exterior mirror ⇒ [page 177](#) .
- Install door trim ⇒ Rep. gr. 70 .



1.13 Exploded view - inner door seal and convertible roof seal (front)

1 - Inner door seal (right-side)

- ❑ Removing and installing
⇒ [page 49](#)

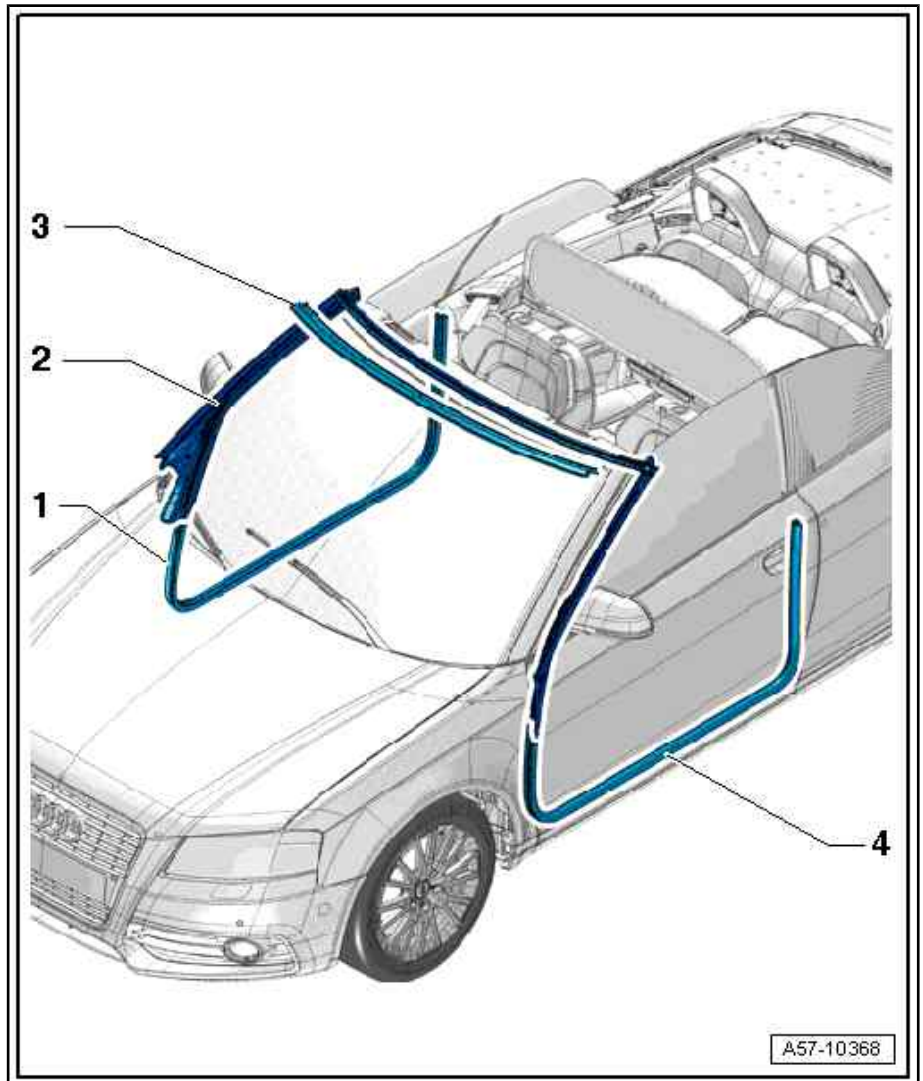
2 - Seal for A-pillar/roof frame

- ❑ Removing and installing
⇒ [page 50](#)

3 - Trim strip for windscreen

4 - Inner door seal (left-side)

- ❑ Removing and installing
⇒ [page 49](#)



1.14 Removing and installing inner door seal

Removing

- Remove A-pillar trim (bottom) ⇒ Rep. gr. 70 .
- Remove sill panel trim ⇒ Rep. gr. 70 .
- Remove rear side trim ⇒ Rep. gr. 70 .
- Detach inner door seal from body flange.



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Installing

Install in reverse order of removal; note the following:

- Fit sections of inner door seal -A- on body flange in the sequence -1 ... 5-, as shown in illustration.
- Seal for A-pillar/roof frame and window slot trim strip (rear) must be installed.

Sequence for further installation:

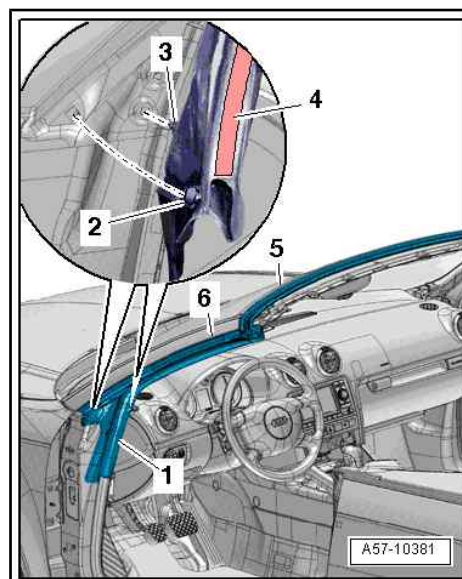
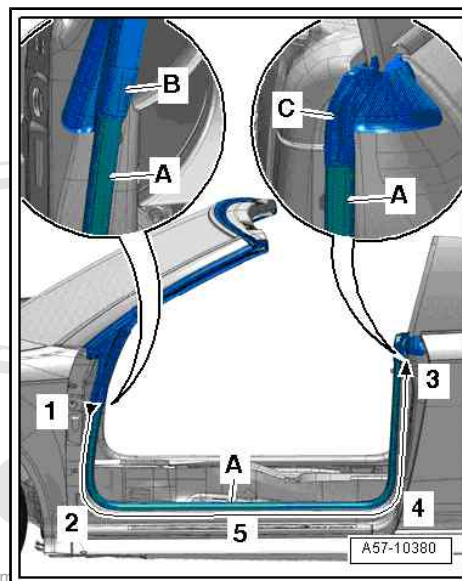
1. Position door seal at A-pillar (top) on joint at seal for A-pillar/roof frame -B-.
2. Position door seal on body flange in area of A-pillar and sill panel.
3. Position door seal at B-pillar (top) on joint at inner window slot trim strip -C-.
4. Position door seal on body flange in area of B-pillar and sill panel.
5. Position door seal on body flange in area of sill panel.
6. Press on all sections of door seal.

- Install side trim (rear) ⇒ Rep. gr. 70 .
- Install sill panel trim ⇒ Rep. gr. 70 .
- Install A-pillar trim (bottom) ⇒ Rep. gr. 70 .

1.15 Removing and installing seal for A-pillar/roof frame

Removing

- Remove roof frame trim (top) ⇒ Rep. gr. 70 .
- Remove A-pillar trim (bottom) ⇒ Rep. gr. 70 .
- Carefully detach retaining lugs -2- and -3- from adhesive -4- and pull off retaining lugs.
- Pull seal -1- off body flange at A-pillar -item 6- and out of guide for windscreen trim strip -5-.



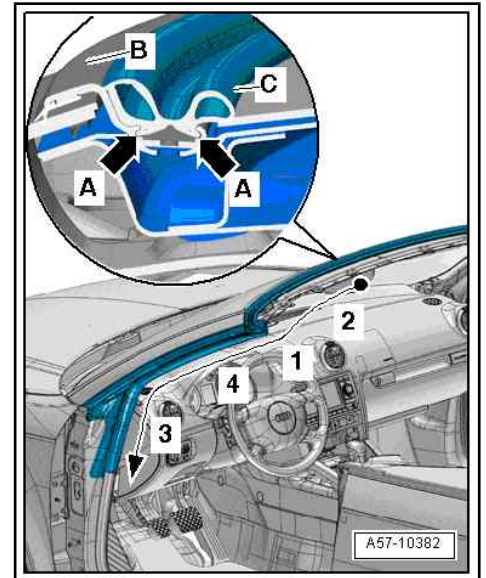
Installing

Install in reverse order of removal; note the following:

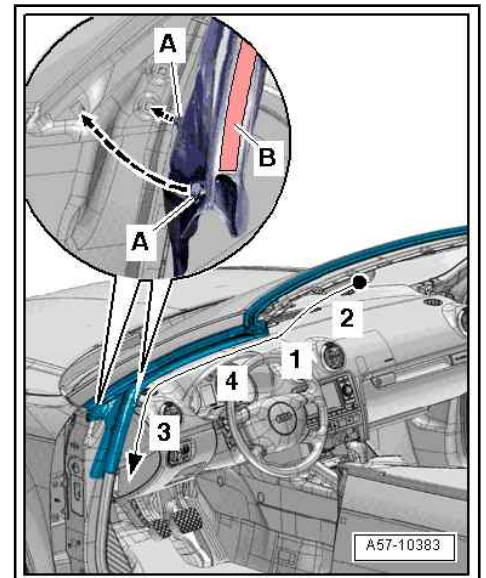
- Body must be free from dust and grease in bonding areas.
- Fit seal for A-pillar/roof frame in the sequence -1 ... 4-, as shown in the two illustrations.

Sequence for further installation:

1. Position seal -C- in area of A-pillar/roof frame.
 2. Insert seal into guide -B- for windscreen trim strip.
- You should feel the retaining wedges -arrows A- of the seal engage in the guide.



1. Peel protective film off double-sided adhesive strip -B-.
 2. Press retaining lugs -A- and double-sided adhesive strip on completely.
- Install A-pillar trim (bottom) ⇒ Rep. gr. 70 .
 - Install roof frame trim (top) ⇒ Rep. gr. 70 .



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1.16 Exploded view - door handle, mounting bracket and door lock

1 - Housing with cover

- ☐ Passenger's door only
- ☐ Removing and installing
⇒ [page 54](#)

2 - Operating rod

- ☐ For door handle

3 - Mounting bracket

- ☐ Removing and installing
⇒ [page 54](#)

4 - Door lock

- ☐ Removing and installing
⇒ [page 58](#)

5 - Bolt

- ☐ 2 Nm

6 - Connecting element with shaft
7 - Bolt

- ☐ 2.5 Nm

8 - Sealing piece

- ☐ For mounting bracket

9 - Door handle

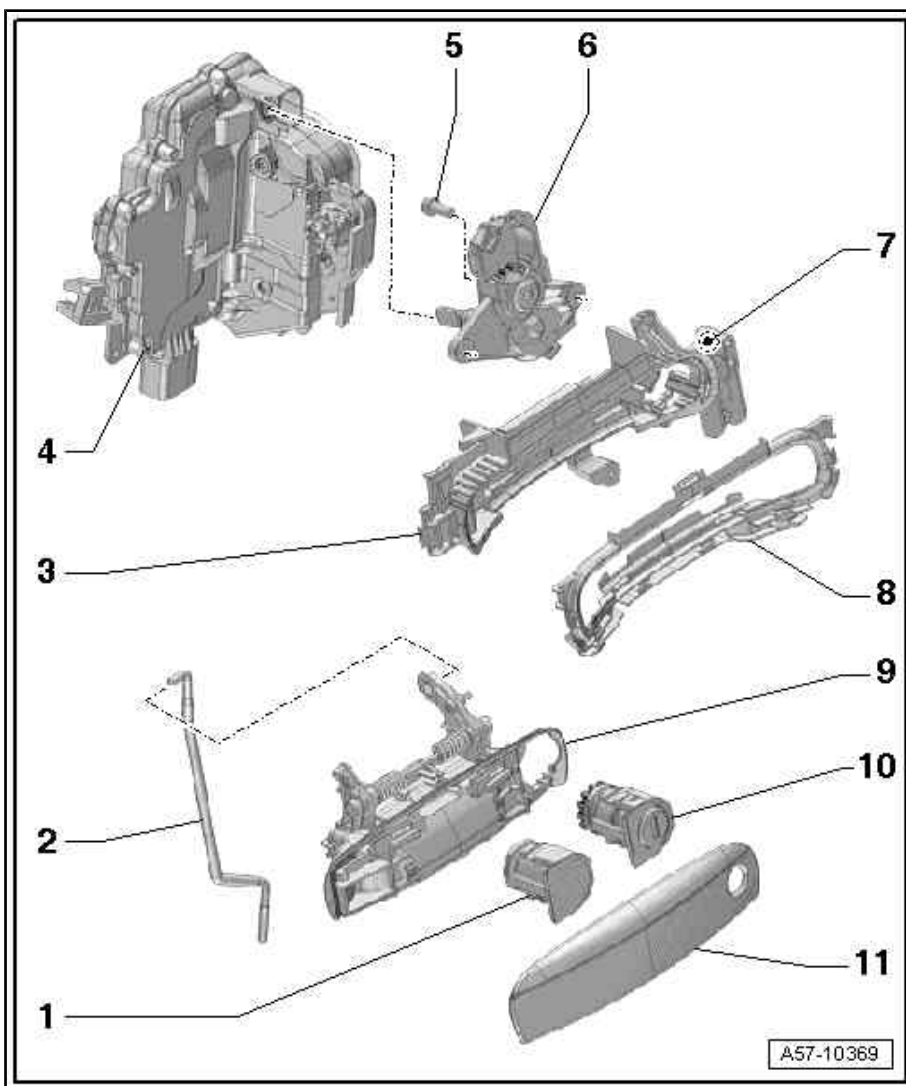
- ☐ Removing and installing
⇒ [page 54](#)

10 - Lock cylinder

- ☐ Driver's door only
- ☐ Removing and installing
⇒ [page 54](#)

11 - Trim for door handle

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

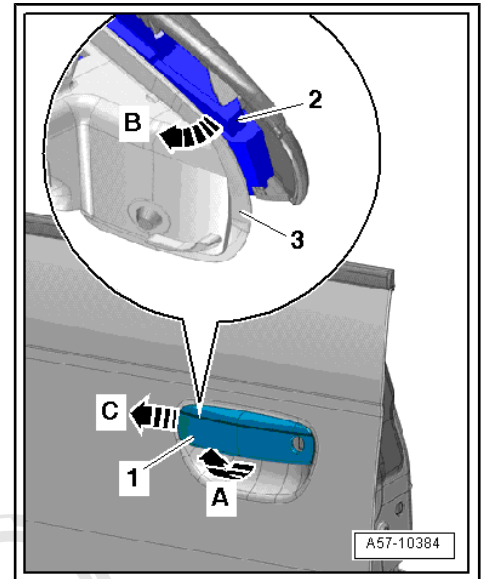


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1.17 Removing and installing outer door handle trim

Removing

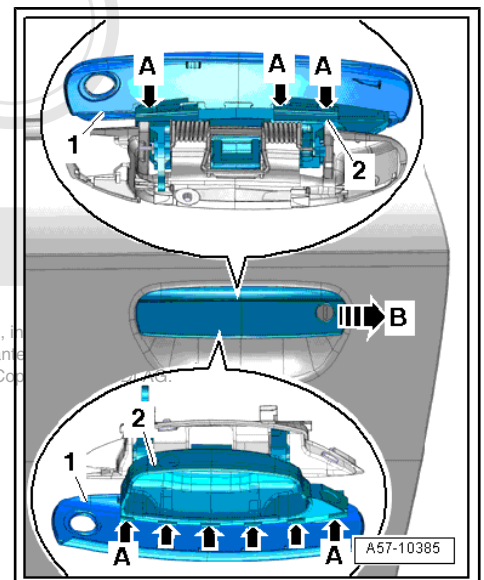
- Lift door handle -arrow A-.
- Release fastener -2- at door handle -3- -arrow B- and slide outer door handle trim towards front -arrow C-.
- Detach outer door handle trim -1- from door handle.



Installing

Install in reverse order of removal; note the following:

- Lift door handle -1-.
- Position outer door handle trim -2- on door handle, as shown in illustration.
- The retaining lugs must face guides -arrows A-.
- Slide outer door handle trim towards rear -arrow B- until fastener engages audibly.



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1.18 Removing and installing lock cylinder

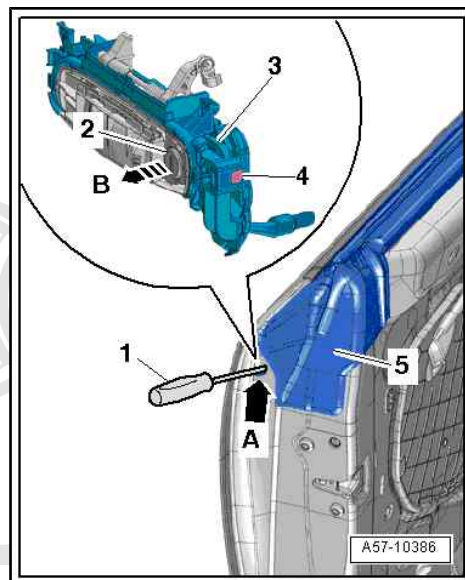
Removing

- Remove outer door handle trim ⇒ [page 53](#) .
- Push sealing element -5- on outside to the side and peel off protective film over hole -arrow A-.
- Screw in clamping bolt -4- as far as possible using a screwdriver -1-.
- Retaining clip -3- for lock cylinder will automatically be pulled outwards.
- Pull lock cylinder -2- out of mounting bracket -arrow B-.



Note

If the lock cylinder cannot be pulled out, insert the vehicle key in the lock cylinder and pull out the lock cylinder with the key turned slightly.



Installing

- Tightening torque ⇒ [page 51](#)

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Install in reverse order of removal; note the following:

- Push lock cylinder into mounting bracket and then check whether the closing and opening positions for the door lock are actuated.

1.19 Removing and installing mounting bracket and outer door handle

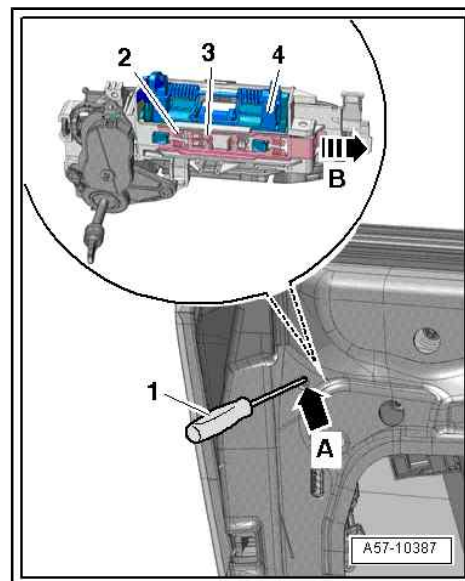
Removing

- Remove outer door handle trim ⇒ [page 53](#) .
- Remove lock cylinder ⇒ [page 54](#) .
- Remove door trim ⇒ Rep. gr. 70 .
- Remove cover panel for door shell ⇒ [page 43](#) .
- Remove door window ⇒ [page 156](#) .
- Remove cover for anti-theft system ⇒ [page 57](#) .
- Remove door lock ⇒ [page 58](#) .

- Prise sealing plug out of door shell and, reaching through opening -arrow A- with a screwdriver -1-, slide retaining clip -3- for door handle -4- forwards as far as stop -arrow B-.

i Note

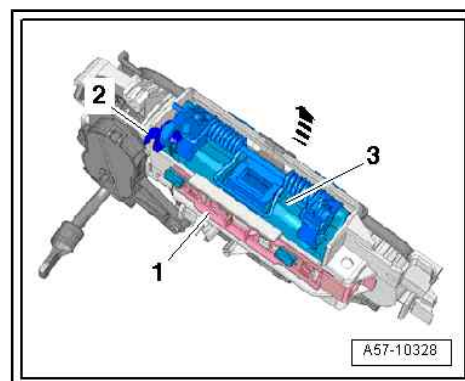
If the retaining clip cannot be moved, lift the retaining tab -2- and at the same time move the retaining clip.



- Detach door handle -3- outwards -arrow- (retaining clip -2- must be positioned as shown in illustration).
- Detach mounting bracket -1-.

i Note

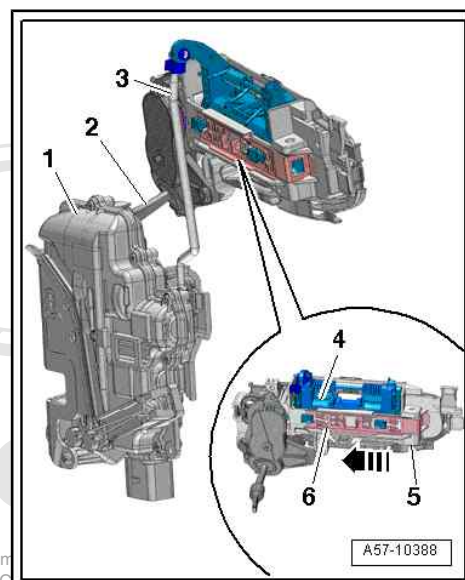
Shown without door in illustration.



Installing

Install in reverse order of removal; note the following:

- Insert mounting bracket and outer door handle in door in the following order:
 1. Check whether retaining clip -6- on mounting bracket is still in "open" position.
 2. Insert mounting bracket -5- in inside of door.
 3. Counterhold mounting bracket and insert door handle -4- in door opening and mounting bracket.
 4. Slide retaining clip -6- towards rear as far as stop -arrow-.
 5. Install door lock ➔ [page 58](#) .
 6. Engage operating rod -3- at operating lever for door handle.
 7. Slide operating shaft -2- for lock cylinder onto door lock -1-.



- Install door window ➔ [page 156](#) .
- Install cover for anti-theft system ➔ [page 57](#) .
- Install cover panel for door shell ➔ [page 43](#) .
- Install door trim ➔ Rep. gr. 70 .
- Install lock cylinder ➔ [page 54](#) .
- Install outer door handle trim ➔ [page 53](#) .

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1.20 Removing and installing operating shaft for lock cylinder

Removing

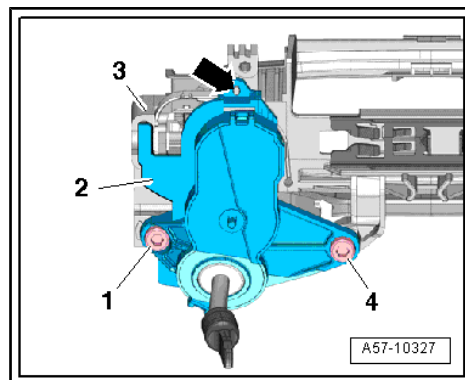
- Remove mounting bracket ⇒ [page 54](#) .
- Remove bolts -1- and -4-.
- Detach operating shaft -2- for lock cylinder from mounting bracket -3-.

Installing

- Tightening torque ⇒ [page 51](#)

Install in reverse order of removal; note the following:

- Tab on mounting bracket must engage in guide on operating shaft -arrow-.
- Install mounting bracket ⇒ [page 54](#) .



1.21 Exploded view - striker, anti-theft bracket, door lock and operating cable for door handle

1 - Operating cable for door handle

- ❑ Removing and installing ⇒ [page 59](#)

2 - Grommet

- ❑ On operating cable for door handle

3 - Bolt

- ❑ 25 Nm

4 - Bolt

- ❑ 19 Nm

5 - Striker

- ❑ Removing and installing ⇒ [page 57](#)
- ❑ Adjusting ⇒ [page 40](#)

6 - Operating rod for outer door handle

- ❑ Adjusting ⇒ [1.23 Removing and installing cover for anti-theft system](#), [page 57](#)

7 - Door lock

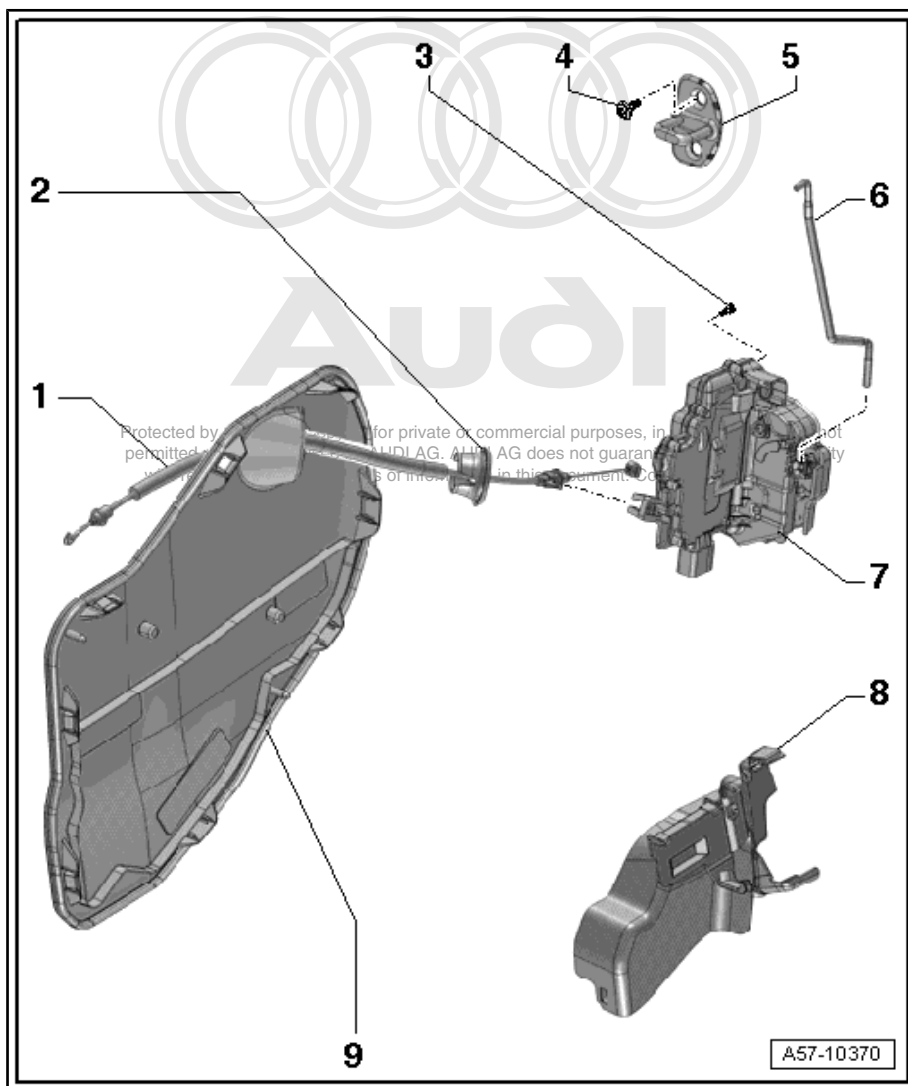
- ❑ Removing and installing ⇒ [page 58](#)

8 - Cover for anti-theft system

- ❑ Removing and installing ⇒ [page 57](#)

9 - Cover panel for door shell

- ❑ Removing and installing ⇒ [page 43](#)



1.22 Removing and installing striker

Removing

- Remove bolts -2-.
- Detach striker -1-.



Note

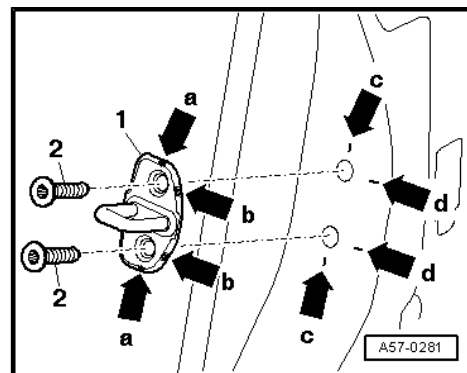
-Arrows a ... d- can be ignored.

Installing

- Tightening torque ➔ [page 56](#)

Install in reverse order of removal; note the following:

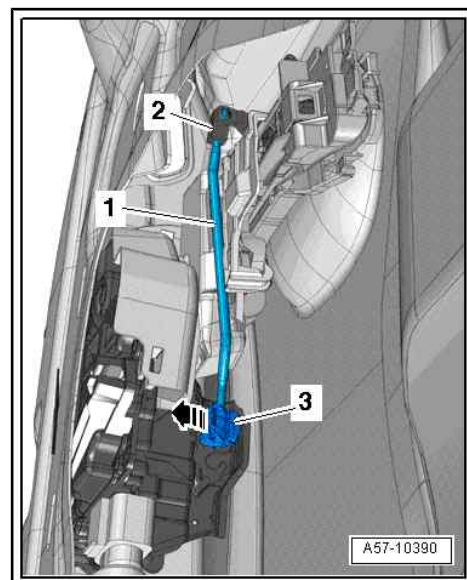
- Adjust striker ➔ [page 40](#) .



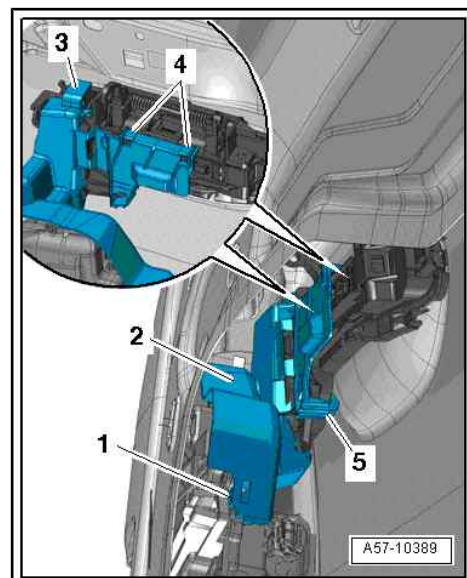
1.23 Removing and installing cover for anti-theft system

Removing

- Remove door trim ➔ [Rep. gr. 70](#).
- Remove cover panel for door shell ➔ [page 43](#).
- Press off retaining clip -2- and disengage operating rod -1- from operating lever for outer door handle.
- Release retaining clip -3- and unfasten retaining clip for operating rod at door lock -arrow-.
- Detach operating rod.



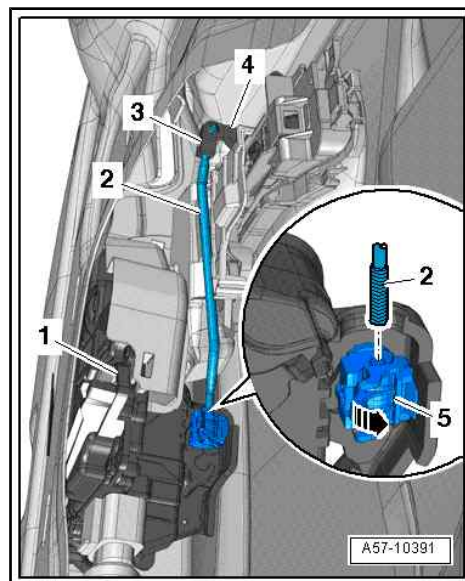
- Disengage retaining clip -5- at bottom of mounting bracket.
- Disengage retaining clips -3- and -4- at top of mounting bracket.
- Disengage retaining clip -1- for cover -2- of anti-theft system at door lock; to do so, turn retaining clip forwards.
- Detach cover for anti-theft system.



Installing

Install in reverse order of removal; note the following:

- Observe the following sequence when installing the operating rod for the door handle:
 1. Insert operating rod -2- in operating lever -4- for outer door handle and secure with retaining clip -3-.
 2. Insert operating rod in retaining clip -5- on door lock -1- into outer door handle (without pre-tensioning outer door handle).
 3. Fasten retaining clip -arrow- for operating rod.
- Install cover panel for door shell ⇒ [page 43](#) .
- Install door trim ⇒ Rep. gr. 70 .



1.24 Removing and installing door lock

Removing

- Remove door trim ⇒ Rep. gr. 70 .
- Remove cover panel for door shell ⇒ [page 43](#) .
- Remove cover for anti-theft system ⇒ [page 57](#) .
- Remove bolts -arrows-.
- Remove door lock -1- and unplug electrical connector -2-.



Note

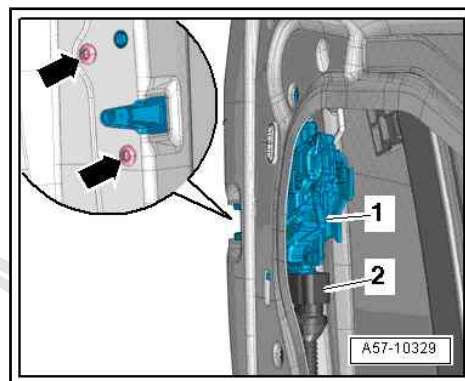
If the door lock is to be renewed, the operating cable for the door handle must be removed ⇒ [page 59](#) .

Installing

- Tightening torque ⇒ [page 56](#)

Install in reverse order of removal; note the following:

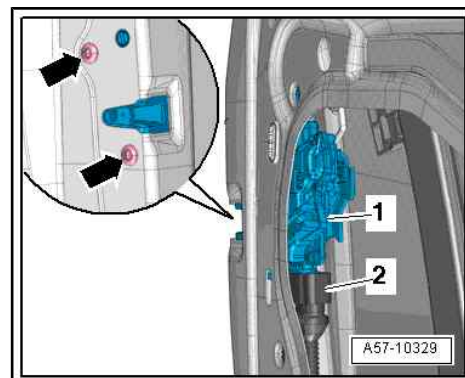
- Install cover for anti-theft system ⇒ [page 57](#) .
- Install cover panel for door shell ⇒ [page 43](#) .
- Install door trim ⇒ Rep. gr. 70 .



1.25 Removing and installing operating cable for door handle

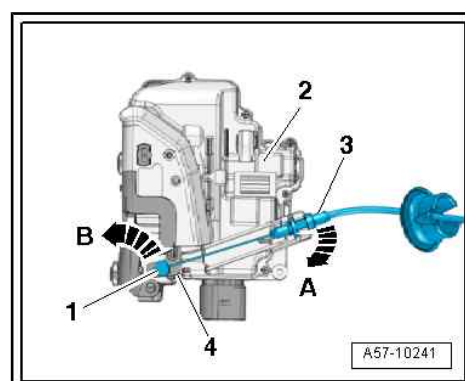
Removing

- Remove door trim ⇒ Rep. gr. 70 .
- Remove cover panel for door shell ⇒ [page 43](#) .
- Remove cover for anti-theft system ⇒ [page 57](#) .
- Remove bolts -arrows-.
- Press door lock -1- to the side and, if necessary, unplug electrical connector -2-.



- Turn operating lever -3- and disengage operating cable from support bracket -2- for door lock in direction of -arrow A-.
- Turn nipple -1- 90° in direction of -arrow B- and take it out of release lever -4- for door handle.

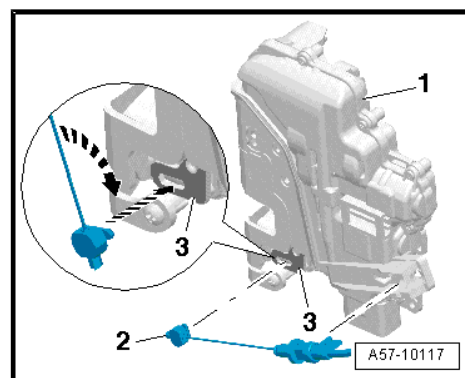
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Installing

Install in reverse order of removal; note the following:

- Insert nipple -2- in release lever -3- for door handle -bottom arrow- and turn 90° -top arrow-.
- Insert operating cable in support bracket on door lock -1- and turn operating lever.
- Install cover for anti-theft system ⇒ [page 57](#) .
- Install cover panel for door shell ⇒ [page 43](#) .
- Install door trim ⇒ Rep. gr. 70 .



2 Window regulators (rear)

2.1 Exploded view - window regulator motor and window regulator

1 - Cover for window regulator

- ☐ Removing and installing
⇒ Rep. gr. 70

2 - Bolt

- ☐ 3.5 Nm

3 - Nut

- ☐ 20 Nm

4 - Centre hex stud

- ☐ For adjustment of window regulator

5 - Bolt

- ☐ 8 Nm

6 - Mounting element

- ☐ For side window
- ☐ Removing and installing
⇒ [page 61](#)

7 - Nut

- ☐ 8 Nm

8 - Side window

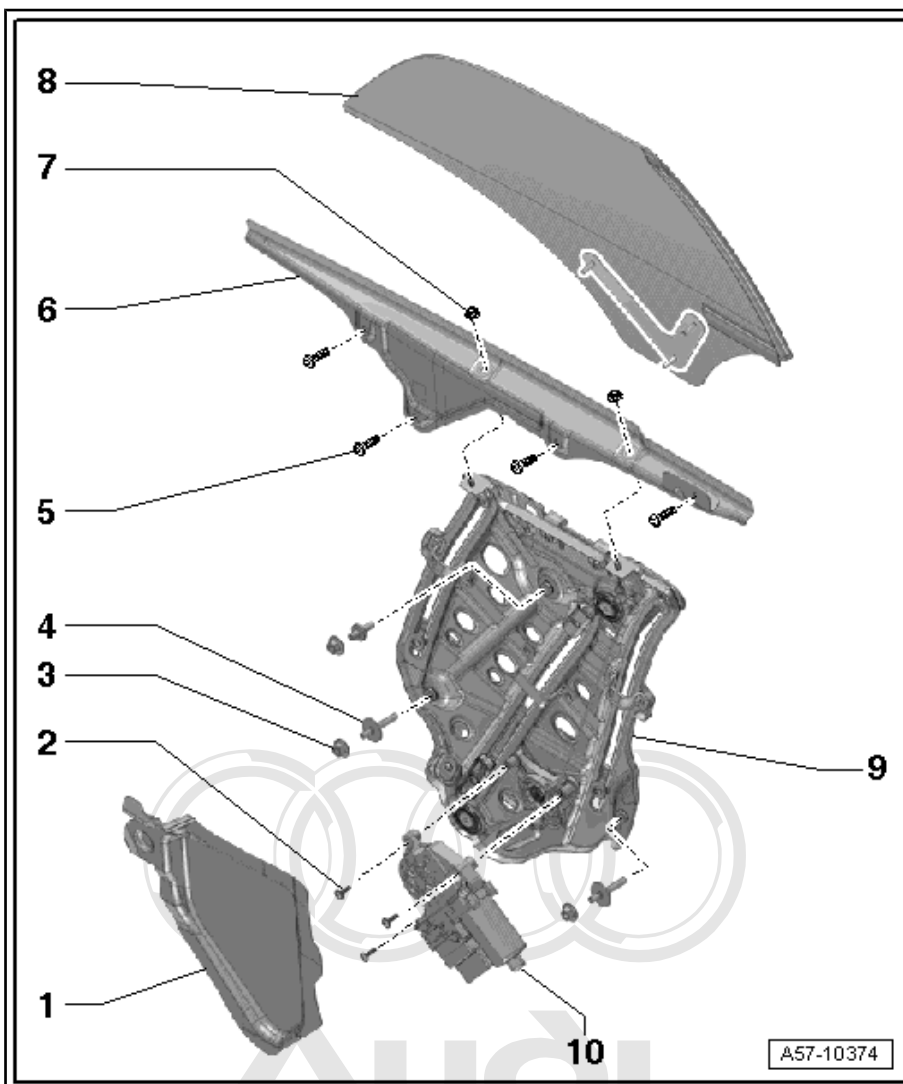
- ☐ Removing and installing
⇒ [page 161](#)

9 - Window regulator

- ☐ Removing and installing
⇒ [page 62](#)

10 - Window regulator motor (rear)

- ☐ Rear left window regulator motor - V26-
- ☐ Rear right window regulator motor - V27-
- ☐ Removing and installing ⇒ [page 61](#)



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2.2 Removing and installing window regulator motor (rear) -V26- / -V27-

Removing

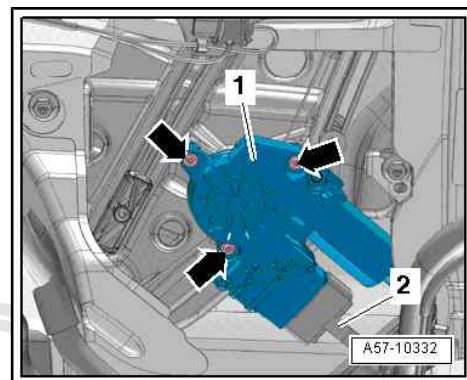
- Remove cover for window regulator ⇒ Rep. gr. 70 .
- Remove bolts -arrows-.
- Detach window regulator motor -1- from window regulator.
- Unplug electrical connector -2-.

Installing

- Tightening torque ⇒ [page 60](#)

Install in reverse order of removal; note the following:

- Install cover for window regulator ⇒ Rep. gr. 70 .



2.3 Removing and installing door control unit at window regulator motor (rear)

The door control unit (rear) is located on the window regulator motor and cannot be renewed separately if it is defective.

- Renew window regulator motor (rear) ⇒ [page 61](#) .

2.4 Removing and installing mounting element for side window

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Removing

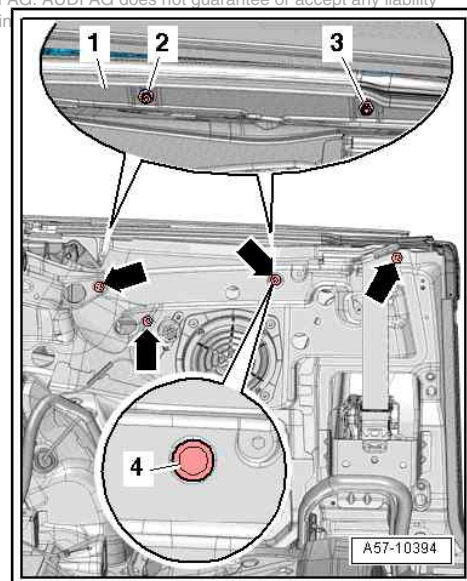
- Move rear side window to “open” position.
- Remove inner window slot trim strip ⇒ [page 66](#) .
- Pull out sealing grommet -4-.
- Remove bolts -arrows-.
- Remove nuts -2- and -3-.
- Remove mounting element -1- for side window by pulling upwards.

Installing

- Tightening torque ⇒ [page 60](#)

Install in reverse order of removal; note the following:

- Install inner window slot trim strip ⇒ [page 66](#) .

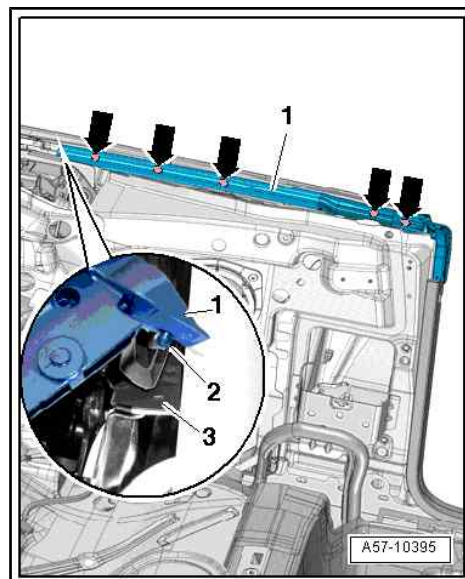


2.5 Removing and installing window regulator

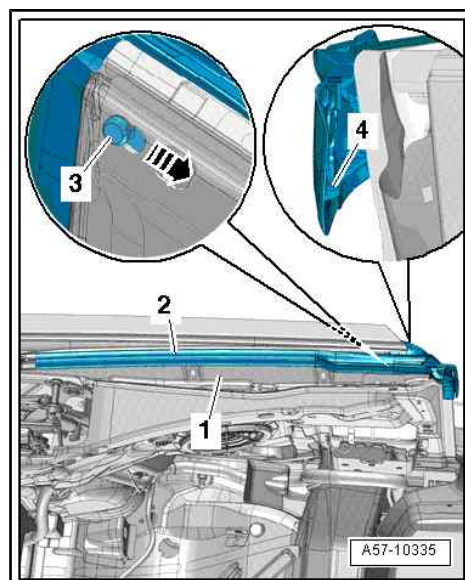
Removing

- Move rear side window to “open” position.
- Remove rear side trim ⇒ Rep. gr. 70 .
- Unfasten retaining lugs -2- on convertible roof compartment -3-.
- Pull retaining lugs -arrows- on outer window slot trim strip/convertible roof compartment trim strip -1- out of body.
- Pull outer window slot trim strip/convertible roof compartment trim strip off until you reach hinge for convertible roof.

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- Pull inner window slot trim strip -2- off mounting element -1- for side window.
- Disengage retaining lug -4- on inner window slot trim strip from outside of B-pillar.
- Press retaining pin -3- on inner window slot trim strip towards rear -arrow- and disengage retaining pin from mounting on body.
- Move side window to “semi-closed” position.
- Remove mounting element for side window ⇒ [page 61](#) .



- Remove cover for window regulator ⇒ Rep. gr. 70 .
- Remove loudspeaker ⇒ Rep. gr. 91 .
- Unplug electrical connector -1-.
- Slacken nuts -2, 3, 5- several turns.
- Lift out window regulator -4- together with side window and window regulator motor.

i Note

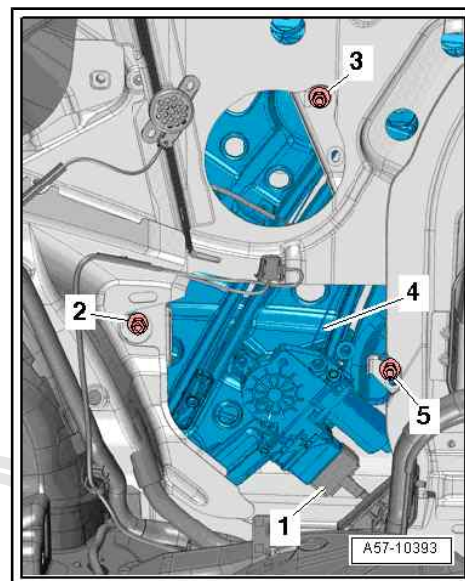
- ◆ *If the window regulator is defective, the window regulator motor and the side window must be removed.*
- ◆ *Remove window regulator motor ⇒ [page 61](#) .*
- ◆ *Remove side window ⇒ [page 161](#) .*

Installing

- Tightening torque ⇒ [page 60](#)

Install in reverse order of removal; note the following:

- Install loudspeaker ⇒ Rep. gr. 91 .
- Install cover for window regulator ⇒ Rep. gr. 70 .
- Install outer window slot trim strip/convertible roof compartment trim strip ⇒ [page 64](#) .
- Install mounting element for side window ⇒ [page 61](#) .



2.6 Exploded view - inner window slot trim strip and outer window slot trim strip/convertible roof compartment trim strip

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1 - Outer window slot trim strip (left-side)

- ☐ Combined in one component with convertible roof compartment trim strip
- ☐ Removing and installing ⇒ [page 64](#)

2 - Outer seal (left-side)

- ☐ For side window
- ☐ Removing and installing ⇒ ["2.7 Removing and installing outer window slot trim strip/convertible roof compartment trim strip"](#), [page 64](#)

3 - Inner window slot trim strip (left-side)

- ☐ Removing and installing ⇒ [page 66](#)

4 - Inner window slot trim strip (right-side)

- ☐ Removing and installing ⇒ [page 66](#)

5 - Outer seal (right-side)

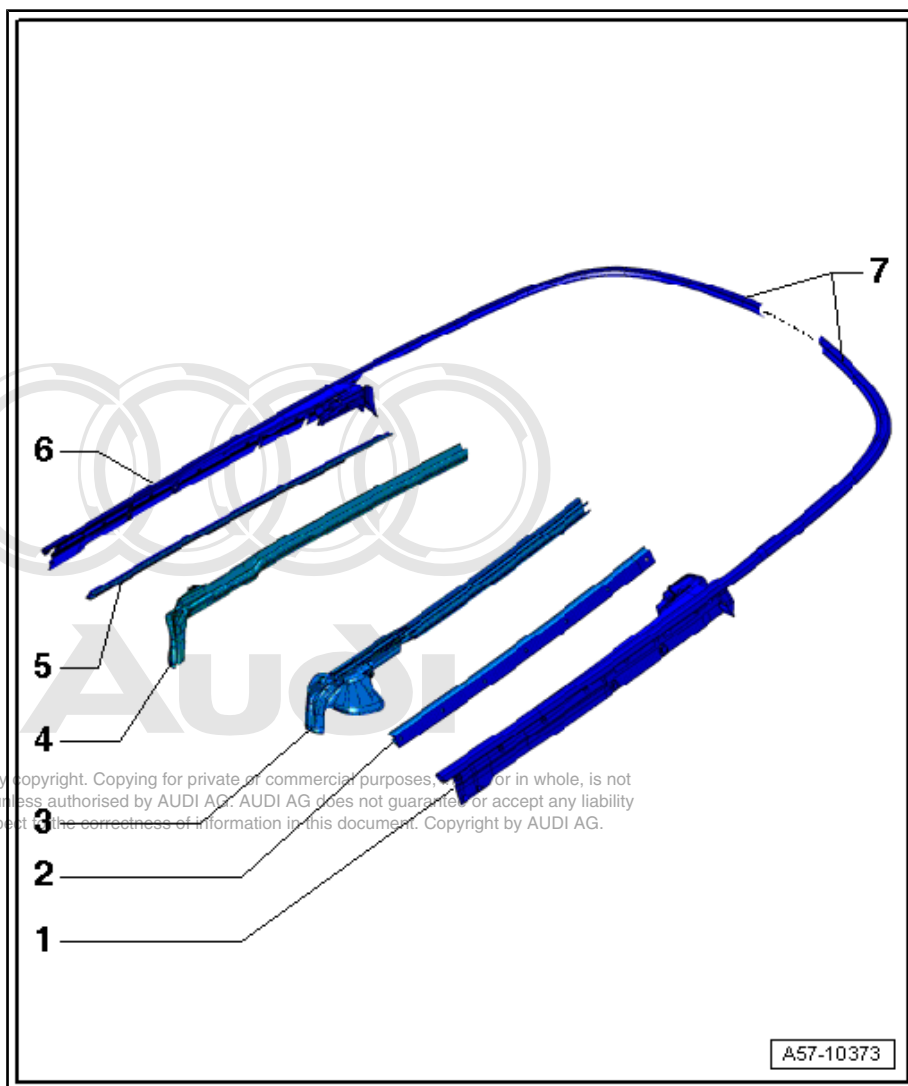
- ☐ For side window
- ☐ Removing and installing ⇒ ["2.7 Removing and installing outer window slot trim strip/convertible roof compartment trim strip"](#), [page 64](#)

6 - Outer window slot trim strip (right-side)

- ☐ Combined in one component with convertible roof compartment trim strip
- ☐ Removing and installing ⇒ [page 64](#)

7 - Window slot seal with convertible roof compartment trim strip

- ☐ Combined in one component with outer window slot trim strip
- ☐ Removing and installing ⇒ [page 64](#)



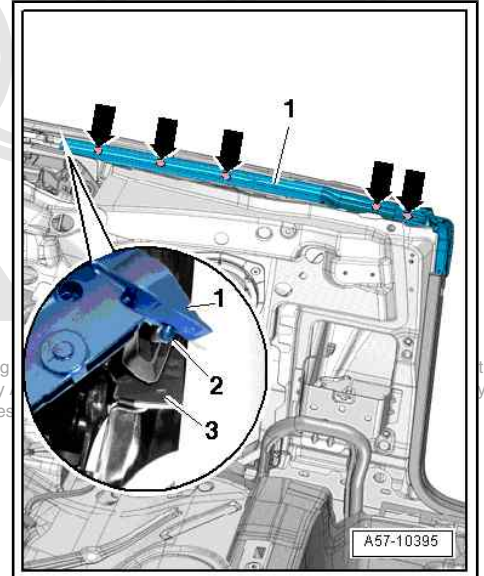
2.7 Removing and installing outer window slot trim strip/convertible roof compartment trim strip

Removing

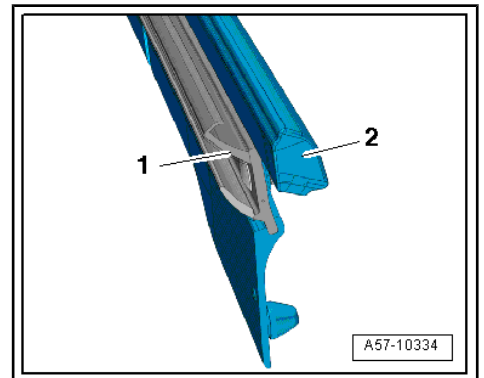
- Remove side window (rear) ⇒ [page 161](#) .
- Unfasten retaining lugs -2- on convertible roof compartment -3-.
- Pull retaining lugs -arrows- on outer window slot trim strip/ convertible roof compartment trim strip out of body.

- Pull outer window slot trim strip/convertible roof compartment trim strip -1- off body seam.

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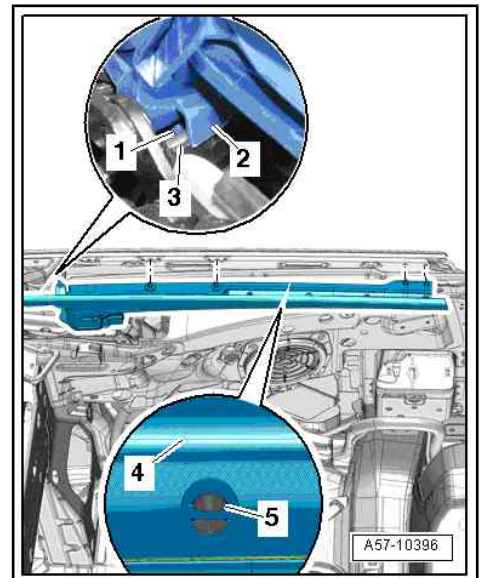
- Unfasten seal -1- on outside of outer window slot trim strip/convertible roof compartment trim strip -2- and detach seal.



Installing

Install in reverse order of removal; note the following:

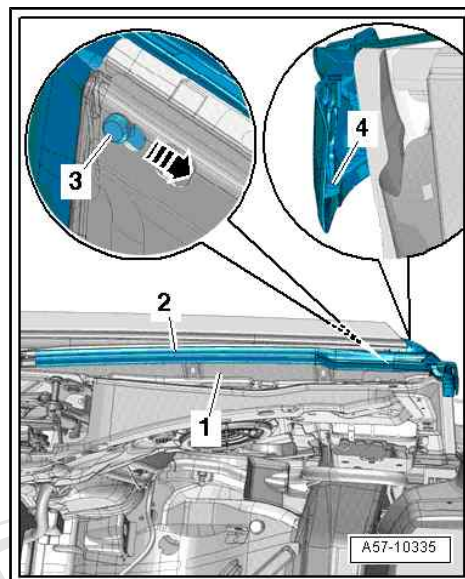
- Fasten outer seal to outer window slot trim strip/convertible roof compartment trim strip.
- The retaining lugs -5- must be fully pressed into the outer window slot trim strip/convertible roof compartment trim strip -4-.
- The rubber lip -2- must make contact with the edge of the convertible roof compartment -3- after the retaining lug -1- has been pressed on.
- Slide outer window slot trim strip/convertible roof compartment trim strip onto body seam and press retaining lugs onto body.
- Install side window (rear) ⇒ [page 161](#) .



2.8 Removing and installing inner window slot trim strip

Removing

- Move rear side window to “open” position.
- Remove rear side trim ⇒ Rep. gr. 70 .
- Pull inner window slot trim strip -2- off mounting element -1- for side window.
- Disengage retaining lug -4- on inner window slot trim strip from outside of B-pillar.
- Press retaining pin -3- on inner window slot trim strip towards rear -arrow- and disengage retaining pin from mounting on body.
- Detach inner window slot trim strip.

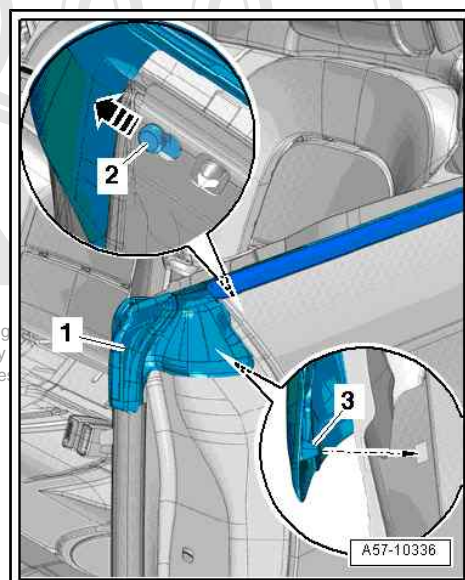


Installing

Install in reverse order of removal; note the following:

- Insert retaining pin -2- of inner window slot trim into mounting on body and secure by pressing in direction of -arrow-.
- Fasten retaining lug -3- of inner window slot trim strip to outside of B-pillar.
- Press inner window slot trim strip -1- onto mounting element for side window.
- Install side trim (rear) ⇒ Rep. gr. 70 .

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3 Central locking system

3.1 Overview - central locking system

Bonnet contact switch, SAFELOCK function warning lamp, driver/passenger door control unit

1 - Bonnet contact switch - F266-

- ☐ Fitting location: In bonnet lock
- ☐ Removing and installing
⇒ [page 69](#)

2 - Central locking SAFELOCK function warning lamp - K133-

- ☐ Removing and installing
⇒ Rep. gr. 96

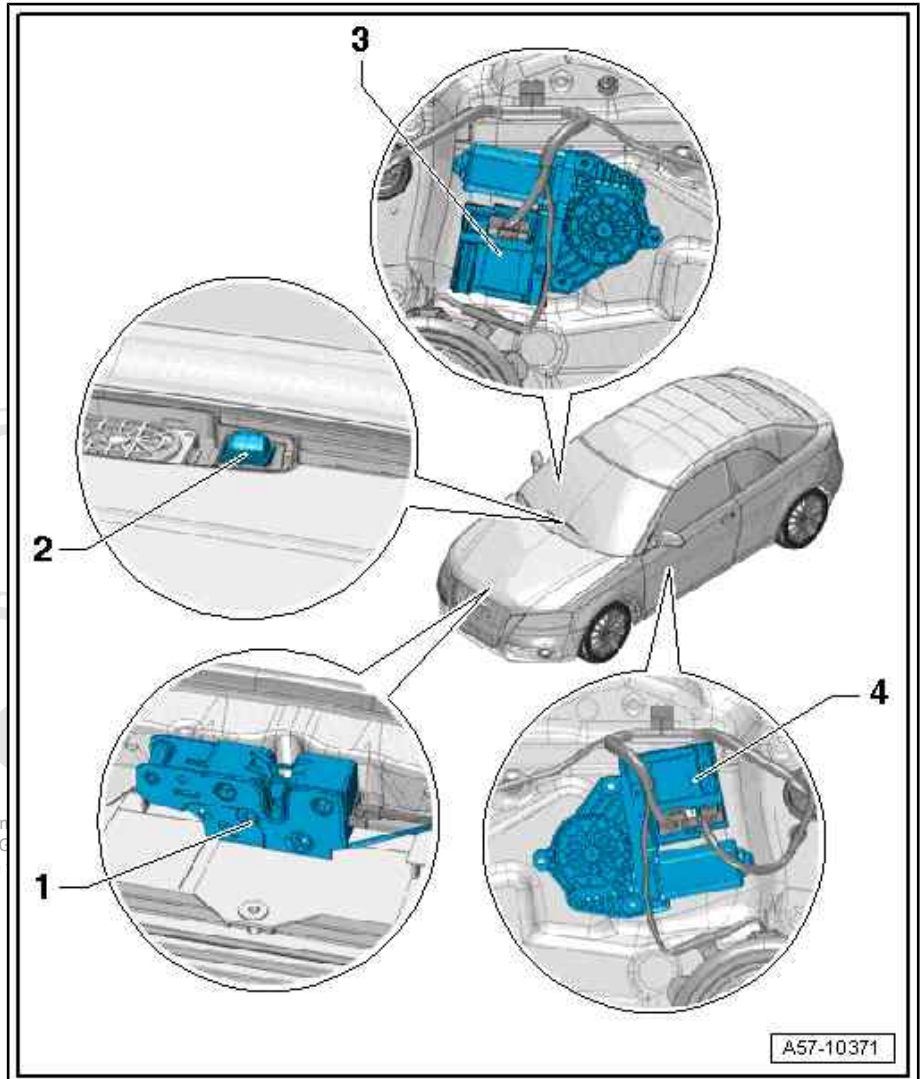
3 - Front passenger door control unit - J387-

- ☐ Combined in one component with window regulator motor
- ☐ Removing and installing
⇒ [page 42](#)

4 - Driver door control unit - J386-

- ☐ Combined in one component with window regulator motor
- ☐ Removing and installing
⇒ [page 42](#)

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Convenience system central control unit, contact switch in lock cylinder for rear lid, rear lid central locking motor, anti-theft alarm sensor, tank filler flap locking motor

1 - Anti-theft alarm sensor - G578-

- ❑ Removing and installing ⇒ [Rep. gr. 96](#)

2 - Bolt

- ❑ 2 Nm

3 - Tank filler flap locking motor - V155-

- ❑ Removing and installing ⇒ [page 69](#)

4 - Bolt

- ❑ 2 Nm

5 - Retaining frame

- ❑ For convenience system central control unit - J393-

6 - Convenience system central control unit - J393-

- ❑ Removing and installing ⇒ [page 70](#)

7 - Nut

- ❑ 4.5 Nm

8 - Nut

- ❑ 4.5 Nm

9 - Rear lid handle release button - E234-

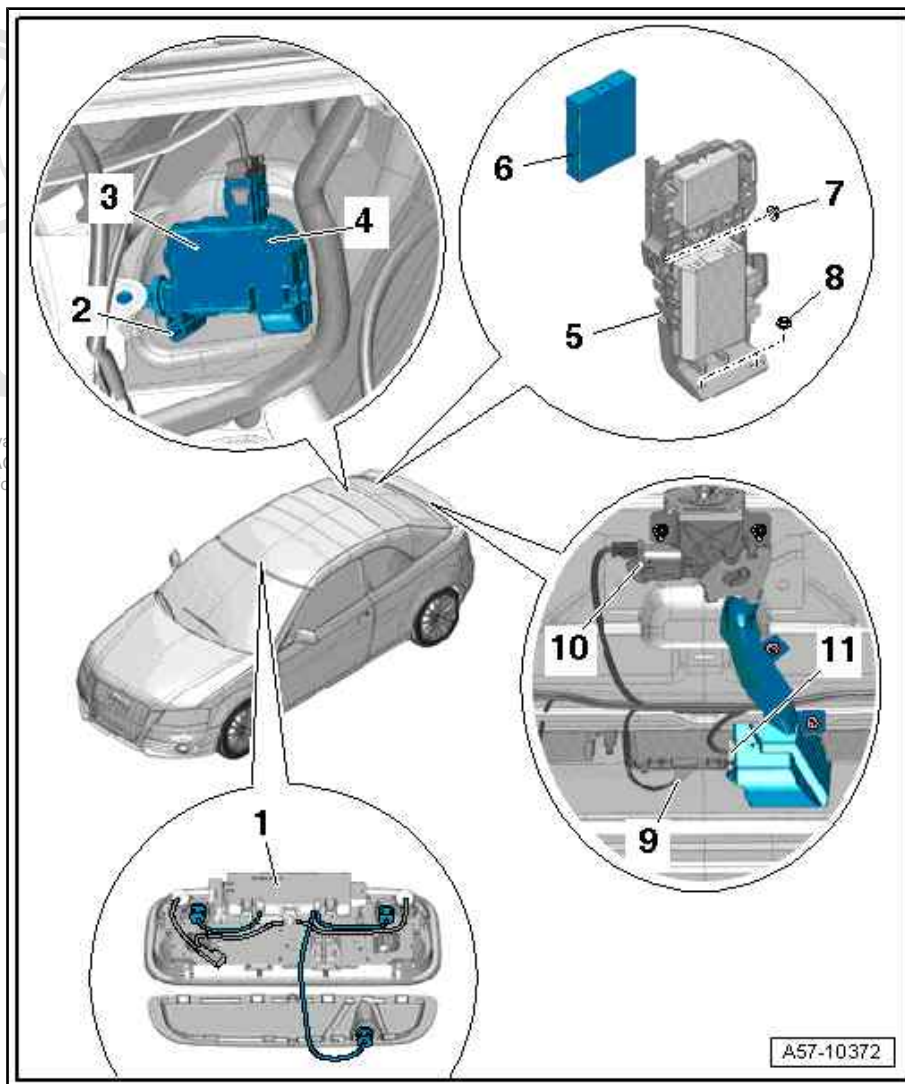
- ❑ Integrated in handle trim; cannot be renewed separately
- ❑ Removing and installing ⇒ [page 28](#)

10 - Rear lid lock

- ❑ With rear lid central locking motor - V53- / rear lid contact switch for anti-theft alarm - F123- ; cannot be renewed separately
- ❑ Removing and installing ⇒ [page 29](#)

11 - Contact switch in lock cylinder for rear lid, anti-theft alarm system and central locking system - F124-

- ❑ Removing and installing ⇒ [page 69](#)



3.2 Removing and installing bonnet contact switch - F266-

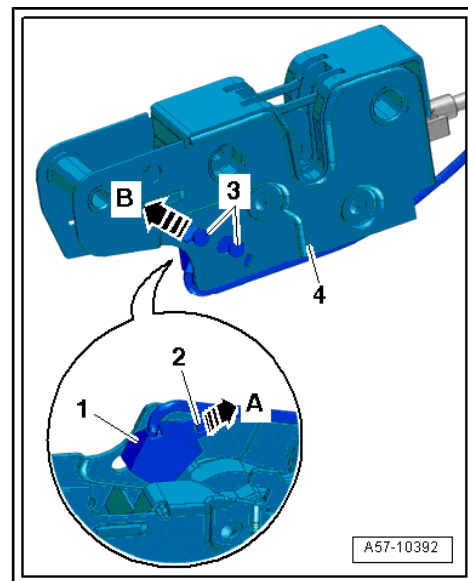
Removing

- Remove bonnet lock ➔ [page 12](#) .
- Lift retaining tab -2- -arrow A-.
- Disengage contact switch -F266- -item 1- at bonnet lock -4- -arrow B- and detach contact switch.

Installing

Install in reverse order of removal; note the following:

- Guide pins -3- on contact switch -F266- must be inserted correctly in bonnet lock.
- Install bonnet lock ➔ [page 12](#) .



3.3 Removing and installing contact switch in lock cylinder for rear lid, anti-theft alarm system and central locking system - F124-

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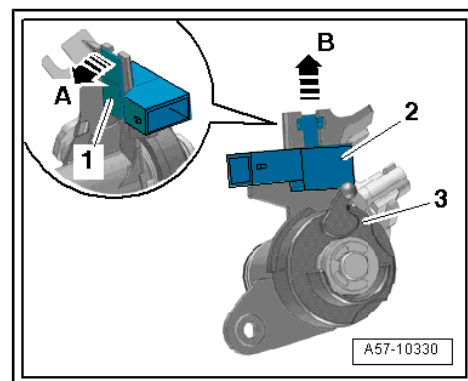
Removing

- Remove lock cylinder ➔ [page 32](#) .
- Lift retaining tab -1- -arrow A-.
- Disengage contact switch -F124- -item 2- at lock cylinder -3- in direction of -arrow B- and detach contact switch.

Installing

Install in reverse order of removal; note the following:

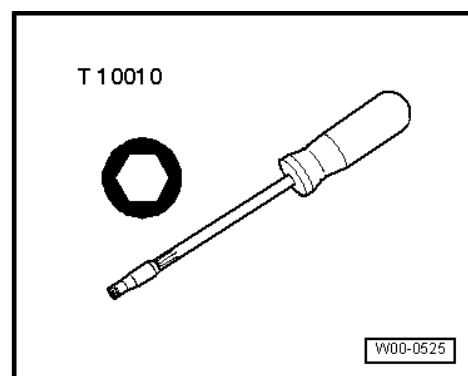
- Install lock cylinder ➔ [page 32](#) .



3.4 Removing and installing tank filler flap locking motor - V155-

Special tools and workshop equipment required

- ◆ Hexagon socket screwdriver - T10010-



Removing

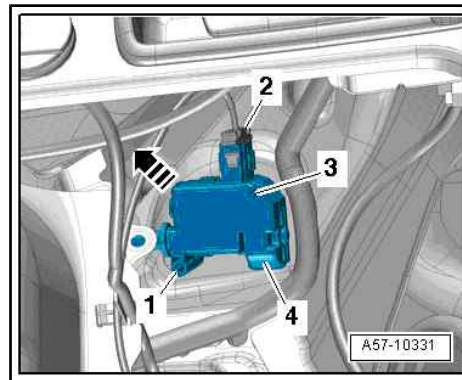
- Open cover for luggage compartment side trim (right-side).
- Loosen bolts -1- and -3- two turns.
- Slide tank filler flap locking motor - V155- -item 4- out of mounting in direction of -arrow-.
- Unplug electrical connector -2-.
- If tank filler flap locking motor - V155- is to be renewed, remove operating rod with manual release cable for tank flap
⇒ [page 34](#) .

Installing

- Tightening torque ⇒ [page 67](#)

Install in reverse order of removal; note the following:

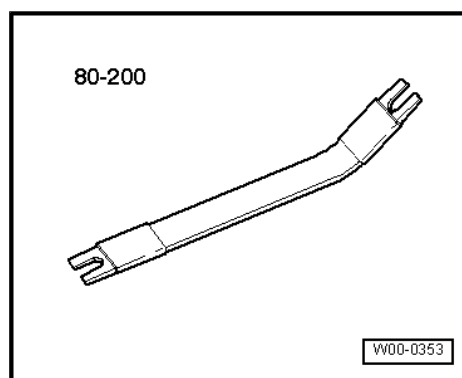
- Operating rod for releasing tank flap must engage in guide on tank flap unit.



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

Special tools and workshop equipment required

- ◆ Removal lever - 80 - 200-



Removing

- If control unit is renewed, select “Replacement” function for appropriate control unit in “Guided Fault Finding” or “Guided Functions” ⇒ Vehicle diagnostic tester.
- Select function or path:

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Vehicle type	
Engine code letters	
46 Central module for convenience system	
J393 Replacement (Rep. Gr. 57)	

- Follow the instructions on the display of the -VAS 5051B- .



Note

All cable ties unfastened or cut open during removal must be re-attached at the same location during installation.

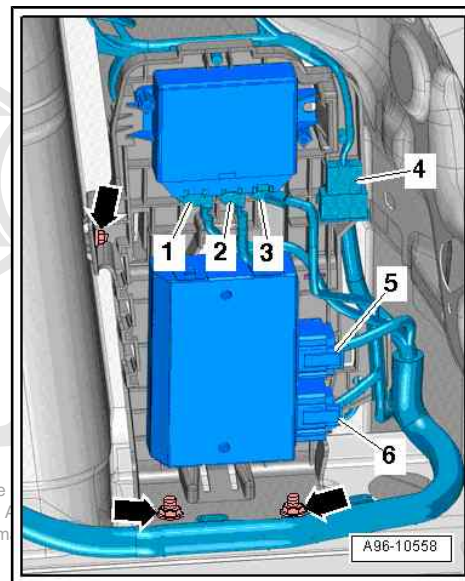
- Open cover for luggage compartment side trim (right-side).

Vehicles with amplifier:

- Remove bracket for amplifier ⇒ Rep. gr. 91 .

All vehicles (continued):

- If fitted, unplug electrical connectors -1, 2, 3, 5, 6-.
- Move clear electrical connector -4-.
- Unscrew nuts -arrows- and detach retaining plate with control units.
- Move wiring harness clear at retaining plate using removal lever - 80 - 200- .
- Detach retaining plate and turn it around.



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- Unplug electrical connectors -1 ... 3-.
- Press retaining clip to the side -arrow 1- and pull convenience system central control unit - J393- out of retaining plate -arrow 2-.

Installing

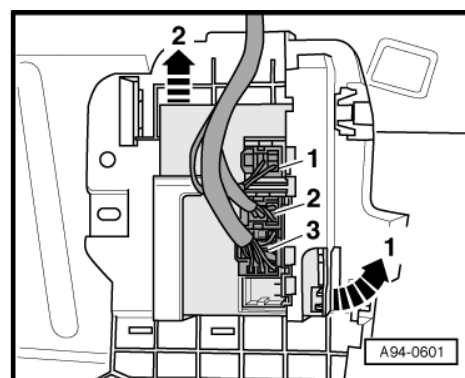
- Tightening torque ⇒ [page 67](#)

Install in reverse order of removal; note the following:



Note

Re-attach all cable ties at the same locations when re-installing.



Vehicles with amplifier:

- Install bracket for amplifier ⇒ Rep. gr. 91 .

3.6 Servicing central locking system

- ◆ The central locking system is an electrical system.
- ◆ The lock actuators in the doors are not integrated in the lock and have 2 motors.
- ◆ The actuators cannot be renewed separately.
- ◆ The first motor locks the door, and the second motor locks the interior door handle (safelock function = country-specific).
- ◆ The locked doors can no longer be opened from inside the car.
- ◆ Following an accident in which an airbag was triggered, the convenience system central control unit - J393- unlocks any locked doors.
- ◆ The convenience system central control unit - J393- is located in the luggage compartment (right-side) behind the cover for the luggage compartment side trim.

61 – Convertible roof, hardtop, canopy

1 Repairing convertible roof (soft top)

1.1 Safety precautions

Observe the following precautions to avoid possible injury and/or damage to the convertible roof:

- ◆ Always apply the handbrake.
- ◆ Switch on the ignition and leave it on while opening / closing the convertible roof.
- ◆ Remove any objects from the convertible roof storage compartment to avoid damage to the convertible roof or the rear window.

1.2 Exploded view - convertible roof

1 - Convertible roof

- ☐ When removing convertible roof, remove together with hydraulic system
- ☐ Convertible roof is secured to main mounting with fitted bolts; therefore an adjustment is usually not necessary
- ☐ Removing and installing
⇒ page 74

2 - Hydraulic pump

3 - Tensioner

- ☐ When installing, first slide onto centring pin
- ☐ Tighten bolts to torque (from inside to outside).

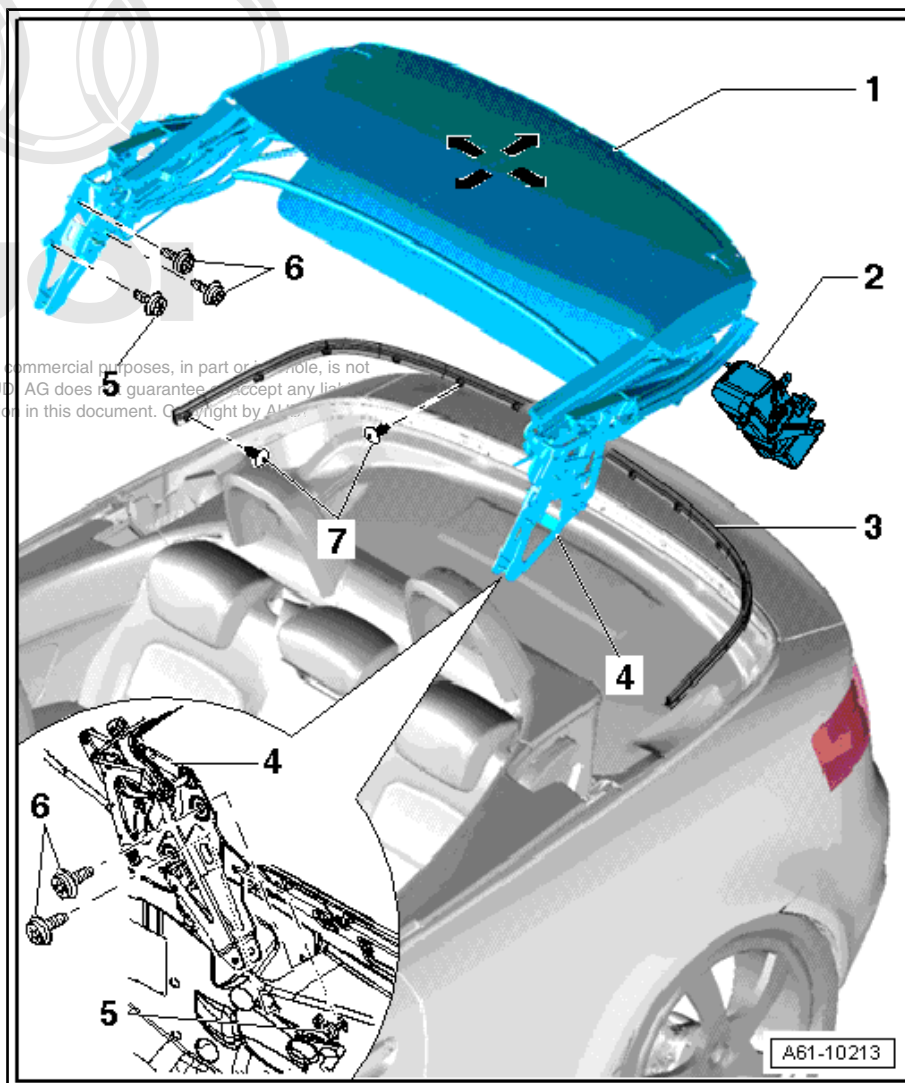
4 - Main mounting

5 - Bolt

- ☐ 35 Nm
- ☐ When dismantling convertible roof, loosen bolt approx. 2 turns

6 - Bolt

- ☐ 35 Nm
- ☐ When dismantling convertible roof, unscrew bolts completely



7 - Bolt



Caution

Note different lengths of bolts securing tensioner.

The three bolts next to the centring pin (left and right) are M6 x 14 mm; the three bolts on the outside are M6 x 25 mm; take care not to interchange these bolts.

□ 12 Nm

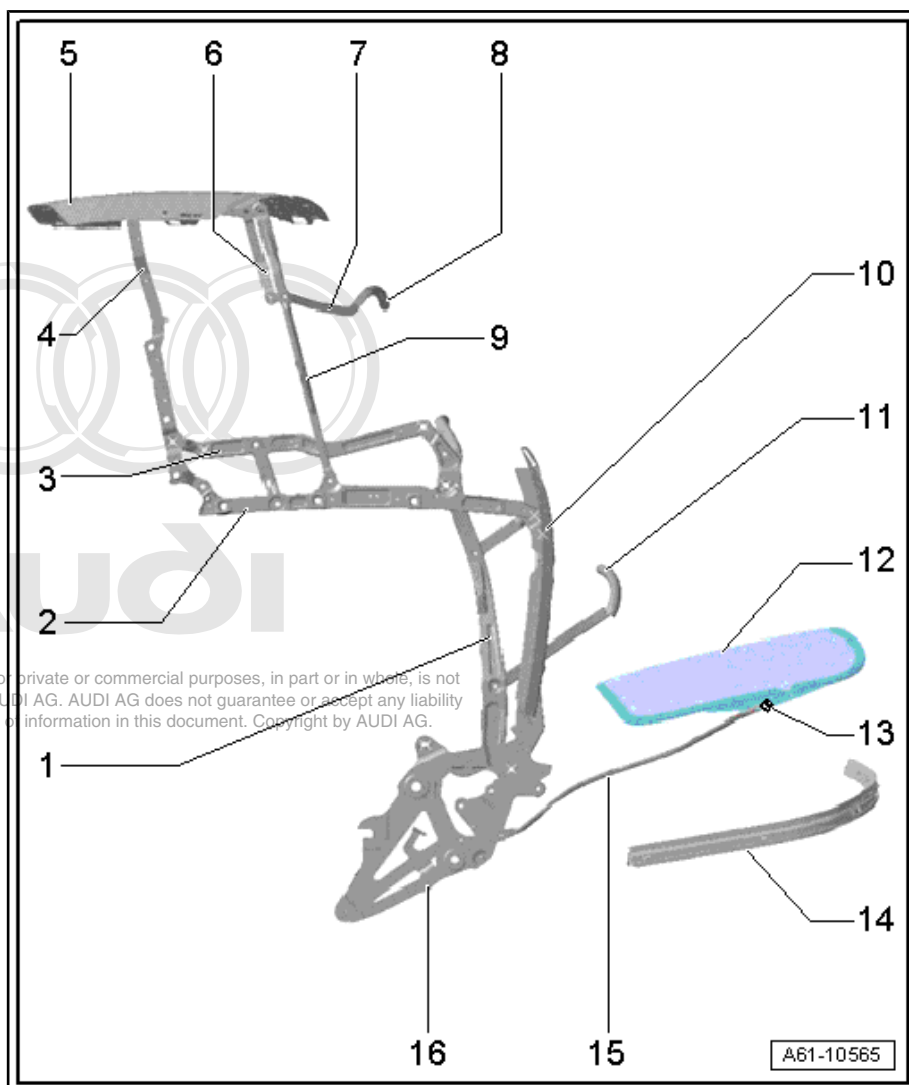
Components of convertible roof frame



Note

The following designations are used in this section.

- 1 - Main guide element
- 2 - Roof guide element »2«
- 3 - Guide element »3«
- 4 - Roof guide element »1«
- 5 - Front cross strut
- 6 - Control lever for cross strut »2«
- 7 - Retainer for cross strut »2«
- 8 - Cross strut »2«
- 9 - Guide element »4«
- 10 - C-pillar trim retaining bracket
- 11 - Cross strut »5«
- 12 - Rear window
 - Not available as a separate replacement part
- 13 - Bolt
 - 5 Nm
- 14 - Tensioner
- 15 - Rear window guide element
- 16 - Main mounting



1.3 Removing and installing convertible roof

Special tools and workshop equipment required

- ◆ Convertible roof clamping device - VAS 6586-
- ◆ Scissor-type assembly platform - VAS 6131 A-



Note

- ◆ *The convertible roof clamping device - VAS 6586- can be secured to the scissor-type assembly platform - VAS 6131 A- or on a workbench via the holes in the cross bar.*
- ◆ *For the convertible roof to be in the correct installation position, it must be secured to the mounting plates via the corresponding holes in the main mountings and the threaded holes »A, B, C, D and E« in the mounting plates ⇒ [page 75](#).*
- ◆ *Before you do so, loosely secure the mounting plates to the main mountings with bolts.*
- ◆ *Insert the convertible roof together with the mounting plates in the convertible roof clamping device - VAS 6586- and tighten the bolts at the main mountings.*
- ◆ *To make sure that the hydraulic pump functions correctly, hang it in the hook at the cross bar; it must be in the installation position.*

Removing convertible roof



Note

- ◆ *On vehicles with power-operated convertible roof, the roof is moved by the electro-hydraulic actuator when required during the removal procedure.*
- ◆ *For this reason the electrical connectors for the hydraulic system must not be disconnected until the convertible roof has been retracted into the convertible roof storage compartment.*

- Remove A-pillar trim (bottom) on both sides ⇒ Rep. gr. 70.
- Remove sill panel trim on both sides ⇒ Rep. gr. 70.
- Remove rear side trim (left and right) ⇒ Rep. gr. 70.
- Remove rear seat backrest ⇒ Rep. gr. 72.
- Remove both rollover bars ⇒ Rep. gr. 69.
- Remove convertible roof compartment side trim (left and right) ⇒ Rep. gr. 70.
- Remove convertible roof compartment trim (centre) ⇒ Rep. gr. 70.
- Remove cover in convertible roof compartment (left-side) next to hydraulic pump.
- Remove luggage compartment side trim (left-side) ⇒ Rep. gr. 70.
- Loosen nuts on bracket for hydraulic pump.
- Set down hydraulic pump beside bracket (in installation position).
- Detach convertible roof cover from water drip tray (left and right).

- Protect whole surface of rear lid and side panel against paint-work damage, e.g. with a blanket.
- Unbolt tensioner from body (rear) and lift out of convertible roof compartment, first on one side and then on the other, and set tensioner down on blanket.



Caution

When removing and installing the hydraulic lines, take care not to kink them.

- Fully unclip hydraulic lines from cross member on body.
- Move convertible roof to centre position (roof half closed).
- Loosen bolt at front of main mounting approx. 4 turns.
- Unscrew rear bolts from main mounting (left and right).
- Carefully move convertible roof until it is almost fully open.

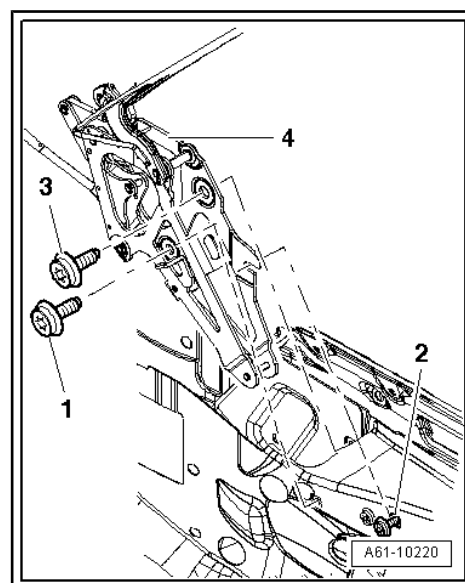


Caution

Do not completely open the convertible roof as the tensioner could otherwise damage the body.

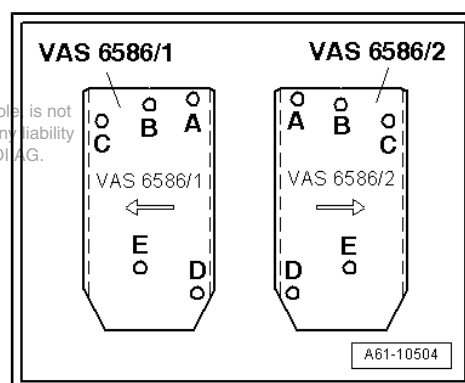
- Unplug electrical connector for hydraulic pump.
- Lift out convertible roof (with assistance of two mechanics); when doing so, slide hydraulic pump through opening in bottom panel of convertible roof compartment.

Clamping convertible roof in convertible roof clamping device - VAS 6586-



Note

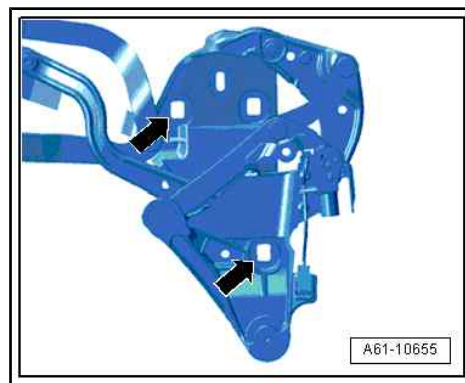
- ◆ *Loosely secure the two mounting plates to the main mountings at the mounting points A and E.*
- ◆ *The arrows must point in the direction of travel.*



- Loosely secure main mountings (left and right) to mounting plates via holes -arrows- (shown in illustration) and mounting points -A- and -E-.
- Slide convertible roof with mounting plates into mountings of convertible roof clamping device - VAS 6586- from above.
- Tighten bolts at main mountings.

Installing convertible roof

- Screw in bolt at front of main mounting approx. 4 turns.
- Lift convertible roof and hydraulic pump over vehicle (with assistance of two mechanics) and slide hydraulic system with wiring harness into installation position through opening in bottom panel of convertible roof compartment.
- Connect pump with wiring harness.
- Insert convertible roof in vehicle and slide in with elongated slot at main mounting underneath bolt head.



Note

To make it easier to screw the two remaining bolts into the threaded holes, the main mounting can be turned slightly by operating the convertible roof switch in steps.

- Screw remaining bolts into main mounting.



Note

- ◆ *The bolts are fitted bolts; it is important to observe the specified tightening sequence.*
- ◆ *This means that it is not necessary to adjust the convertible roof.*



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- Tighten bolts at main mounting to specified torque
⇒ [Item 5 \(page 72\)](#) in the sequence -1, 2 and 3-.
- Press in clips for hydraulic lines at cross member on body.



Caution

Take care not to twist hydraulic lines when installing them.

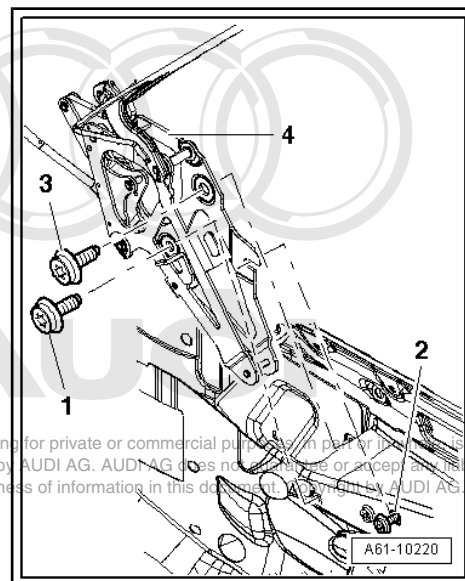
- Insert tensioner in one side of convertible roof compartment (applying light pressure) and then insert fully in the other side.



Caution

- ◆ **Note different lengths of bolts securing tensioner.**
- ◆ **The three bolts next to the centring pin (left and right) are M6 x 14 mm; the three bolts on the outside are M6 x 25 mm; take care not to interchange these bolts.**

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- Secure tensioner by tightening bolts to torque
⇒ [Item 6 \(page 78\)](#) (from inside to outside).
- Tighten nuts for hydraulic pump to torque
⇒ [Item 6 \(page 106\)](#) .
- Attach convertible roof cover to water drip tray on left and right and press on.
- Install trim panels, rollover bars and backrest (rear) in reverse order of removal.
- Engage tensioning straps for rear window regulation in bottom of convertible roof compartment, clip in and press on cover.



Note

When the convertible roof is closed, the tensioning straps should be tensioned to the extent that they can still be turned approx. 90° by hand.

1.4 Removing and installing tensioner

1 - Tensioner



Note

Before removing, the headliner and the convertible roof cover must be detached from the tensioner.

- ❑ Before removing, slide headliner out of tensioner to the side.
- ❑ Unscrew bolts, slightly detach tensioner and pull out convertible roof cover downwards at an angle.
- When installing, first fit on centring pin in centre of vehicle, then secure loosely with one bolt on each side.
- Tighten bolts to torque, starting in centre and working outwards.

2 - Retaining strip for convertible roof cover

- ❑ Pull retaining strip for convertible roof cover downwards at an angle.

3 - Window slot trim strip with convertible roof compartment trim strip

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

4 - Headliner

- ❑ Inserted with piping into tensioner from the side
- ❑ When removing, slide out of tensioner from the side

5 - Centring pin

6 - Bolt

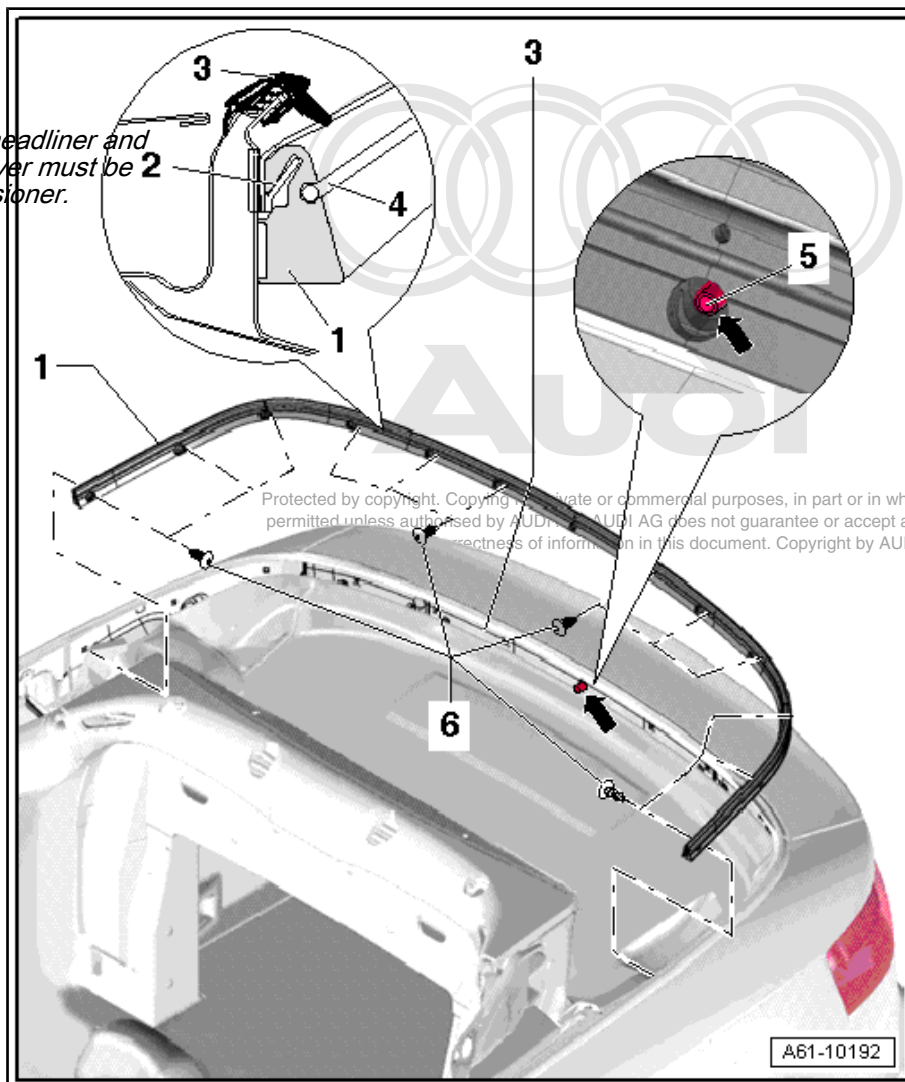


Caution

Note different lengths of bolts securing tensioner.

The three bolts next to the centring pin (left and right) are M6 x 14 mm; the three bolts on the outside are M6 x 25 mm; take care not to interchange these bolts.

- ❑ 9 Nm



1.5 Adjusting convertible roof



Due to the fitted bolts at the main mounting, it is not necessary to adjust the convertible roof frame.

1.6 Removing and installing seals for convertible roof

1 - Trim for roof guide element »2«

2 - Trim for roof guide element »1«

❑ Removing ➔ [page 80](#)

3 - Trim for front cross strut

4 - Convertible roof locking mechanism

❑ Removing ➔ [page 81](#)

5 - Trim cover (front)

❑ To remove, unscrew bolts at front and unclip cover from front cross strut on reverse side.



On vehicles with manual locking mechanism for convertible roof, the handle must be removed first.

6 - Bolt

❑ 1.5 ... 2 Nm

7 - Spring clip

❑ 4x, inserted in cover

8 - Handle

❑ Only for manual locking mechanism

– Removing ➔ [page 84](#)

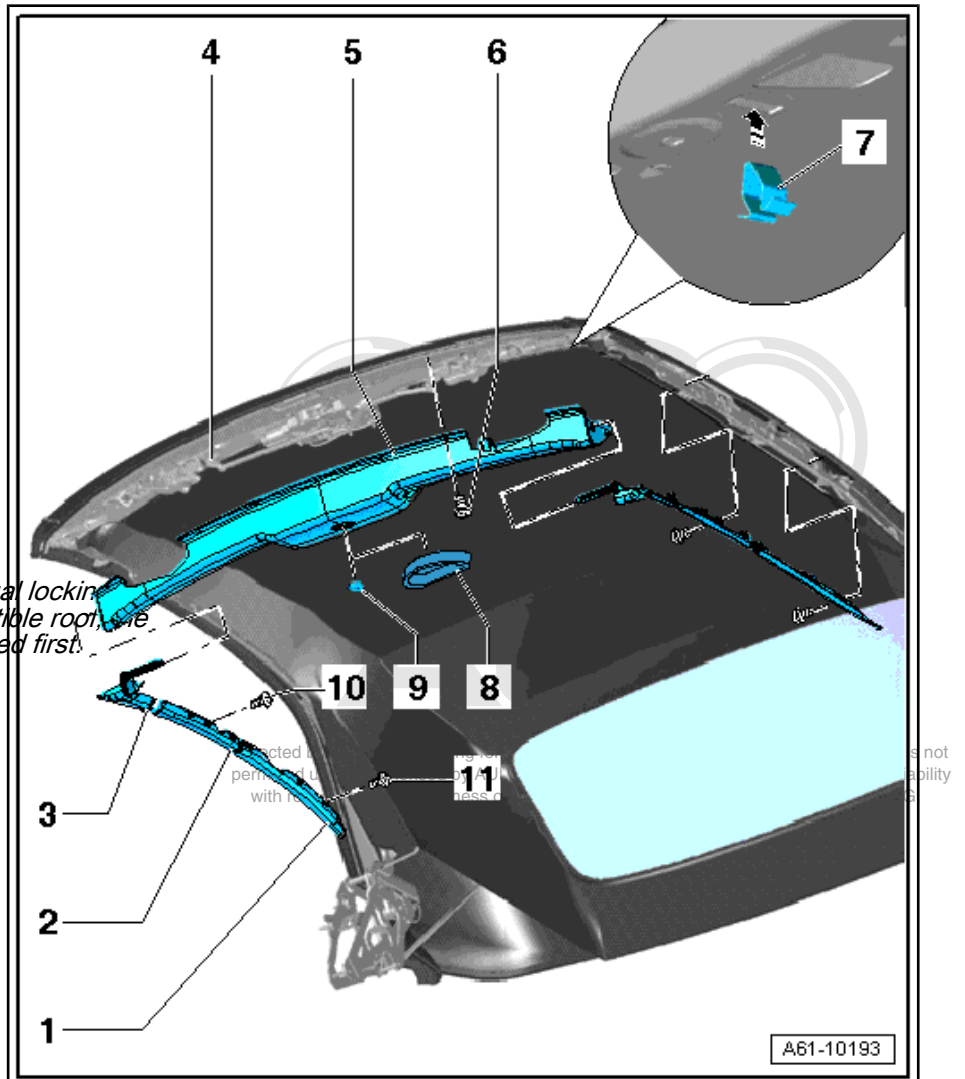
9 - Trim collar

10 - Bolt

❑ 2.5 ... 3 Nm

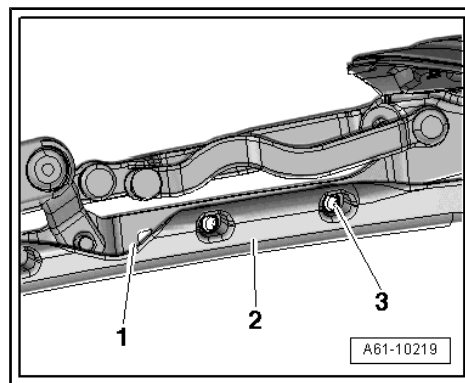
11 - Bolt

❑ 2.5 ... 3 Nm



Removing trim for roof guide element

- Unscrew bolts -3- at trim -2- and detach trim from roof guide element -1-.



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Removing guide rails

1 - Bolt

- 5 Nm

2 - Washer

- Observe different thicknesses of washers for lateral adjustment of guide rails.

3 - Guide rail for roof guide element »2«

4 - Guide rail for main guide element

- Guide rail is riveted to retaining bracket.
- To remove, drill out rivet heads and drive out rivet stems.

5 - Pop rivet

- 3x

6 - Seal for main guide element

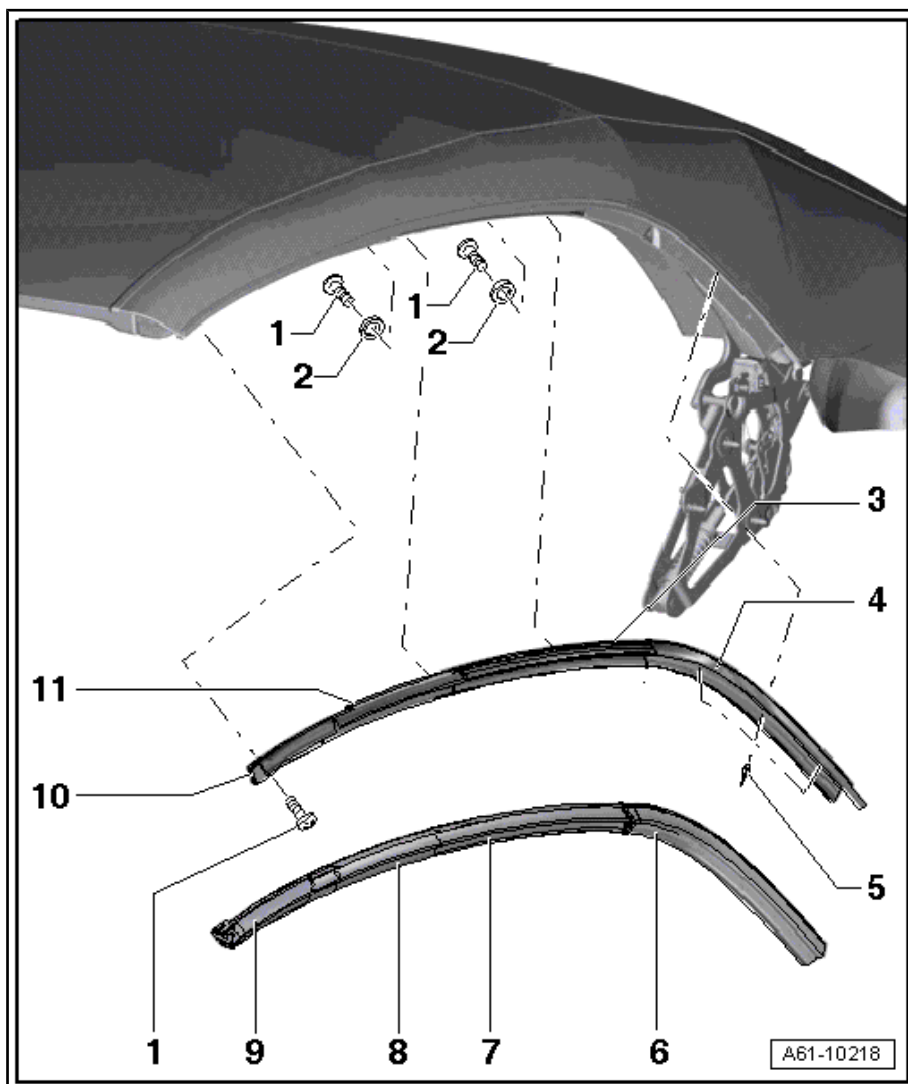
7 - Seal for roof guide element »2«

8 - Seal for roof guide element »1«

9 - Seal for front cross strut

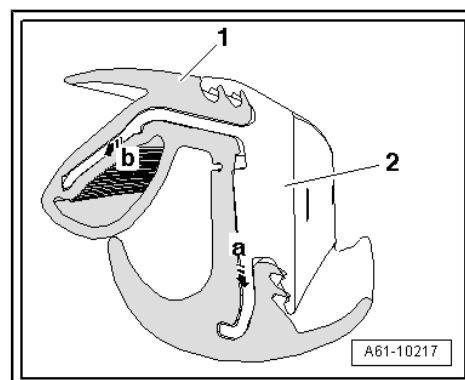
10 - Guide rail for front cross strut

11 - Guide rail for roof guide element »1«



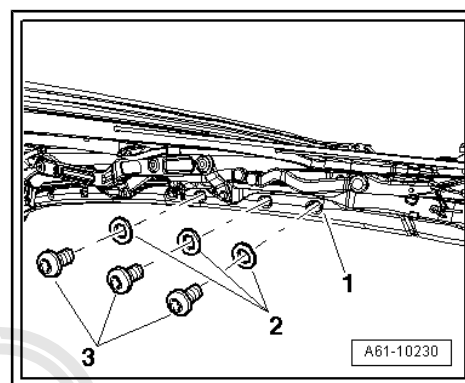
Detaching seal from guide rail

- First pull seal -1- out of guide rail -2- in direction of -arrow a-.
- Then pull seal off guide rail at an angle in direction of -arrow b-.
- To make it easier to install the seal, spray guide rail with soap solution.



Adjusting seal

- For lateral adjustment, fit washers -2- between guide rails and roof guide element -1- to match setting of side window.
- Tighten bolts -3- on guide rails to specified torque
⇒ [Item 1 \(page 80\)](#).



1.7 Removing and installing locking mechanism for convertible roof

Removing locking mechanism for convertible roof

- Cover (front) for front cross strut removed.

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1 - Locking element

- Removing ⇒ [page 85](#)

2 - Nut

- 9 Nm

3 - Convertible roof lock

- The convertible roof locks are pre-adjusted via the locking rods and do not require re-adjustment

4 - Convertible roof

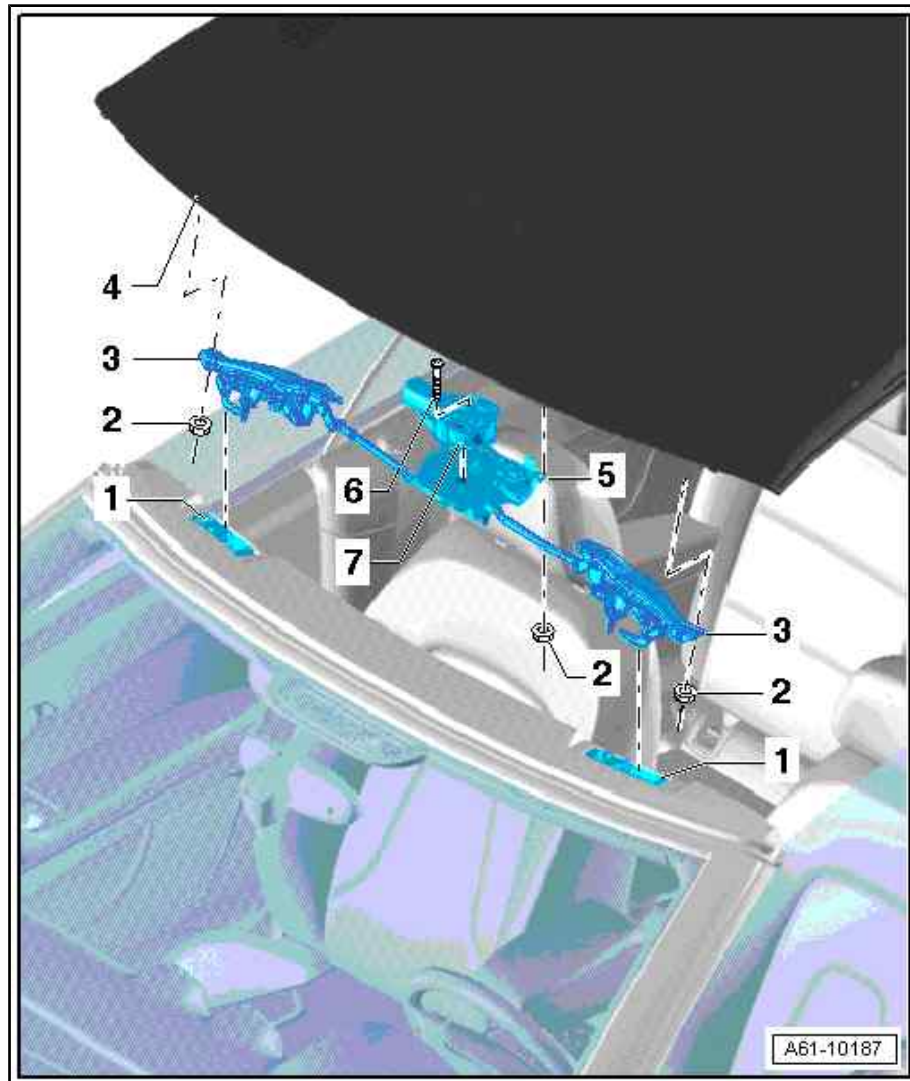
5 - Convertible roof locking mechanism

6 - Bolt

- 9 Nm

7 - Drive unit for convertible roof locking mechanism

- Removing ⇒ [page 83](#)

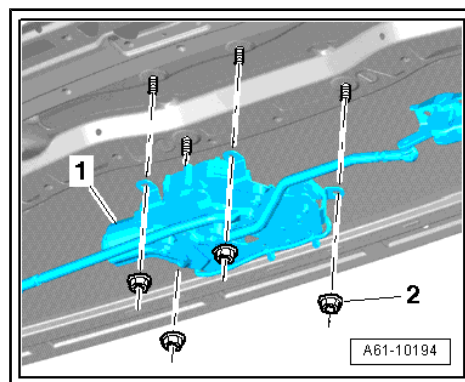


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Removing drive unit for convertible roof locking mechanism

- Cover for front cross strut removed.
- Unscrew nuts -2- and detach drive unit -1- from studs.

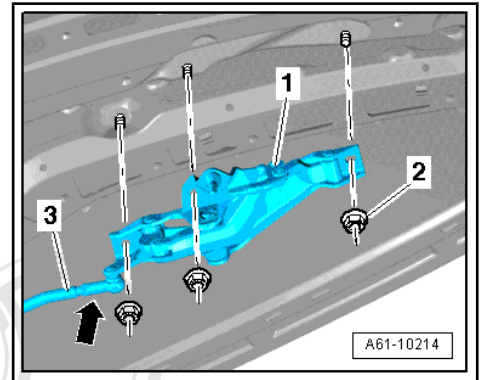
Removing convertible roof lock



- Trim panel (front) removed.
- Unscrew nuts and pull off convertible roof lock together with linkage

Removing linkage for convertible roof locking mechanism

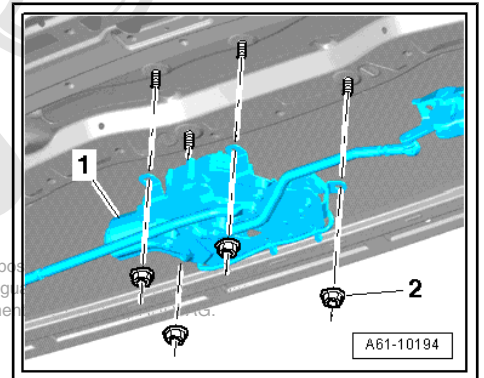
- Trim for roof cross member removed



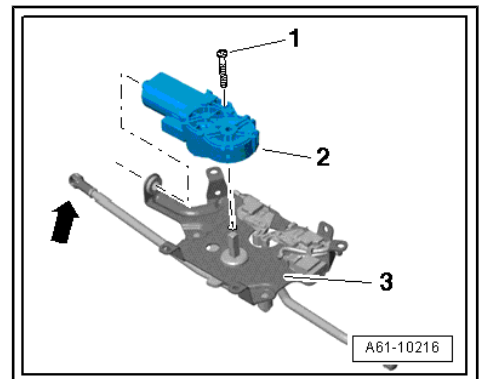
- Disengage ball-head studs at convertible roof locks (left and right).
- Remove nuts -2- at locking mechanism -1- for convertible roof.

Removing and installing drive unit for convertible roof locking mechanism

- Disengage linkage for convertible roof locking mechanism at ball-head studs -arrow-.



- Unscrew bolt -1- and pull drive unit slightly out of side mounting.
- Lift drive unit off square mounting.



Manual locking mechanism for convertible roof

1 - Locking element

□ ⇒ [page 85](#)

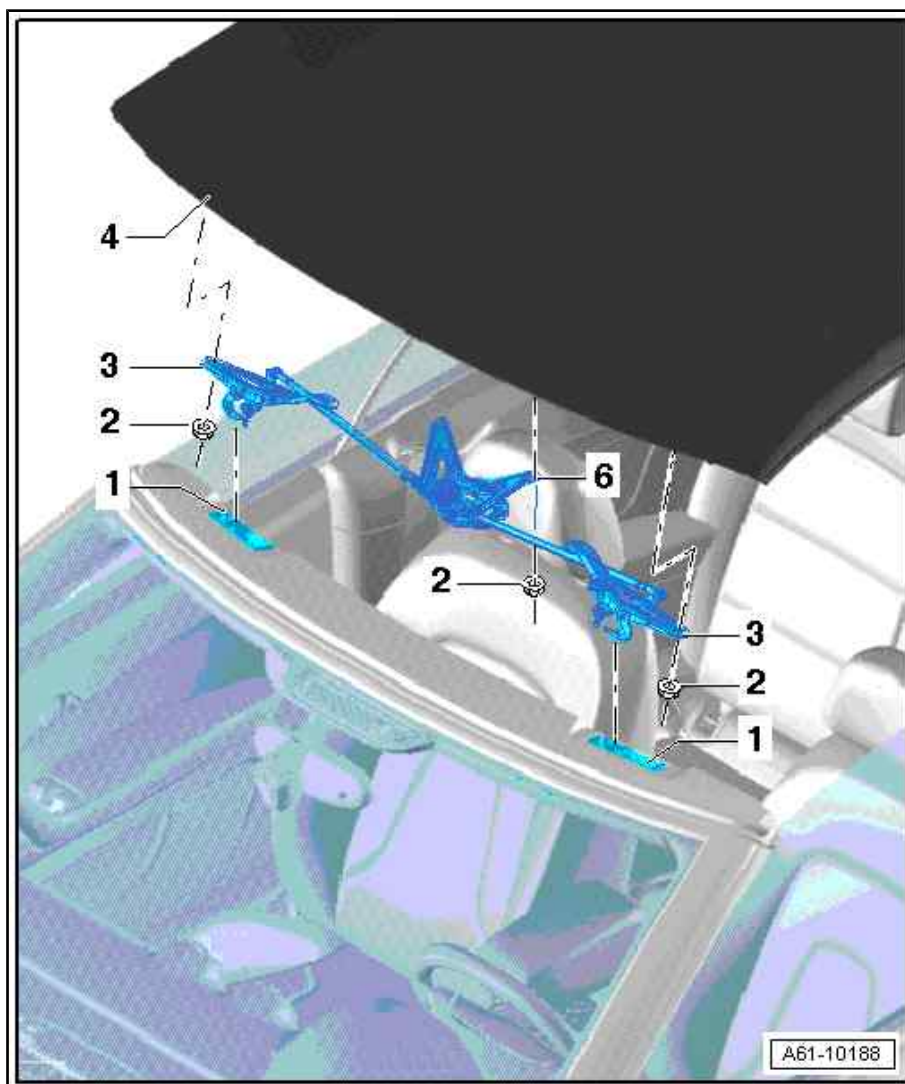
2 - Nut

□ 9 Nm

3 - Convertible roof lock

4 - Convertible roof

5 - Manual locking mechanism for convertible roof



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Removing handle for locking mechanism

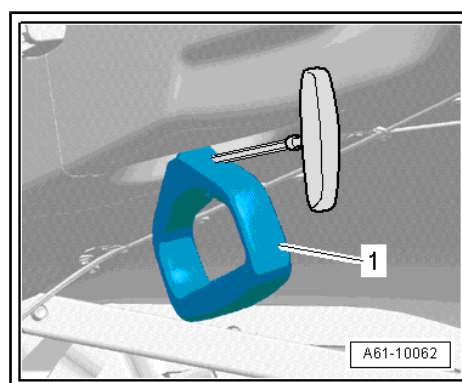
- Fold down handle, turn by approx. 90° and unscrew bolt.



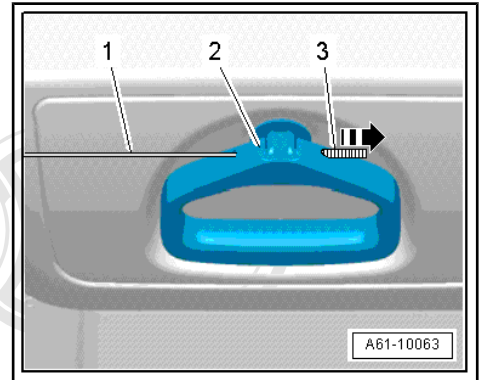
Caution

Bolt must be renewed following removal.

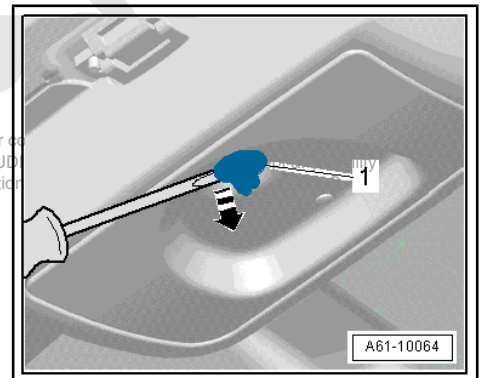
- Using a thin piece of wire -1-, push bolt -3- sideways out of handle -2-.



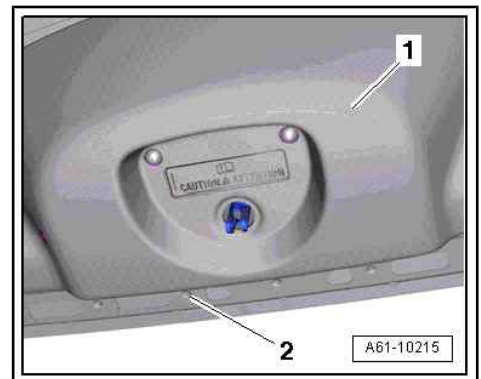
- When installing, tighten bolt to 2 Nm.



- Unclip trim collar -1- in direction of -arrow-.



- Unscrew bolts -2- from cover -1- (front), unclip at rear and detach downwards.



1.8 Removing and installing locking element

1 - Locking element

- ☐ Sun visors removed ⇒ Rep. gr. 70
- ☐ Cover for windscreen frame removed ⇒ Rep. gr. 70
- Unplug electrical connector and unscrew bolts -3- and -4-.
- When installing, observe tightening sequence.
- First tighten bolts -3- to torque (from inside to outside).
- Then tighten bolt -4- to torque (working from underneath).

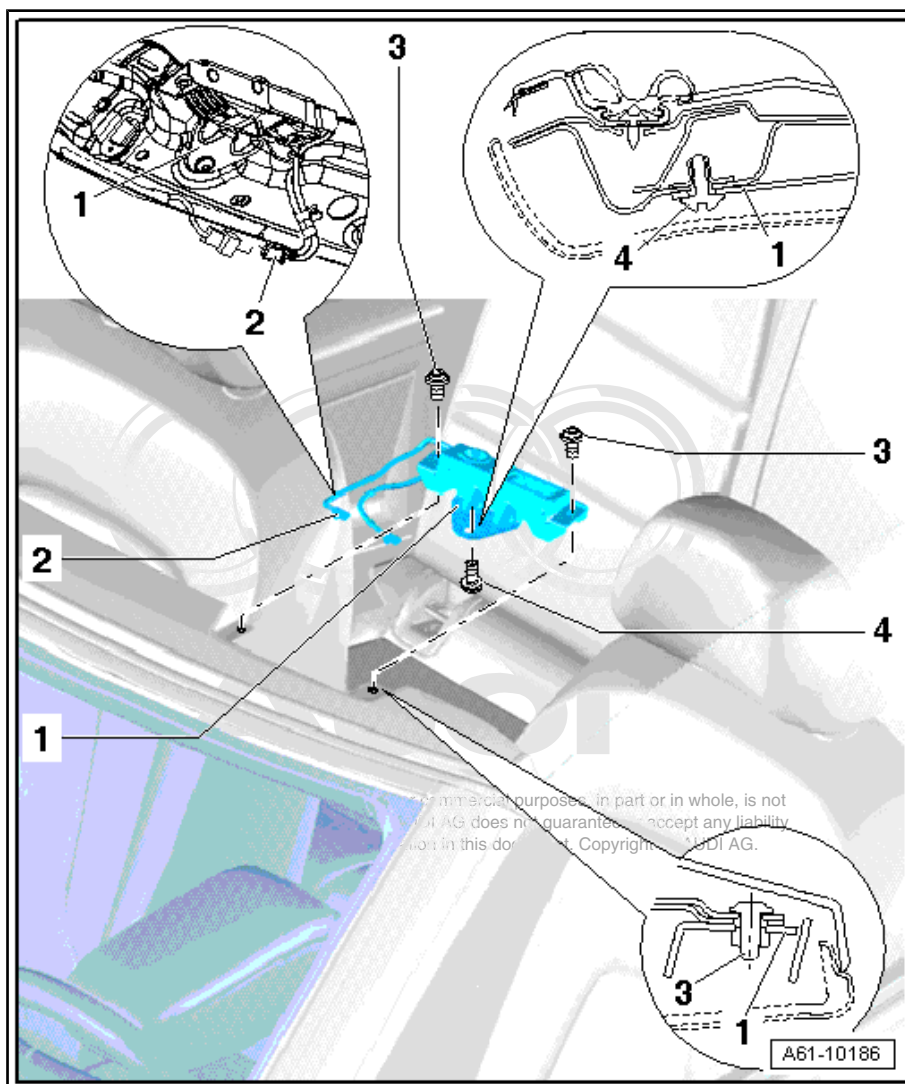
2 - Electrical connector

3 - Bolt

- ☐ 12 Nm

4 - Bolt

- ☐ 12 Nm



1.9 Removing and installing headliner



Caution

- ◆ *Before tensioning cables and retaining straps are removed, mark or take pictures of their positions to ensure that you can re-install them at their original locations.*

Removing:



Note

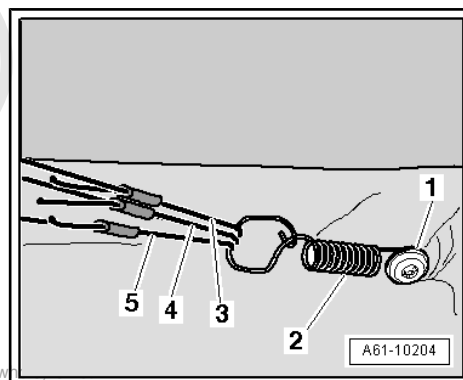
- ◆ *On vehicles with manual locking mechanism for convertible roof, the locking handle must be removed first.*
- ◆ *Leave the convertible roof frame installed in the vehicle during any repair work on the headliner.*
- Remove both rollover bars ⇒ Rep. gr. 69 .
- Open convertible roof; the front cross strut should be opened towards rear approx. 30 cm and there should be no tension on the headliner.

- Remove trim for front cross strut (7 bolts at front and 6 clips at rear).

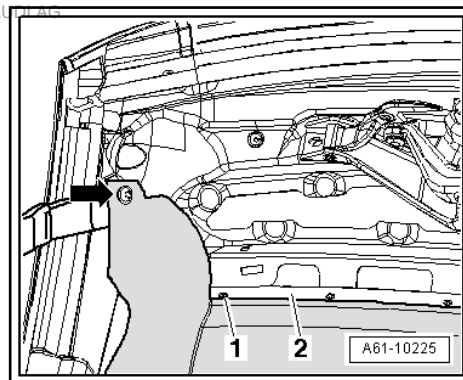
 Note

Screw bolts into threads again loosely immediately after unfastening cables/eyelets.

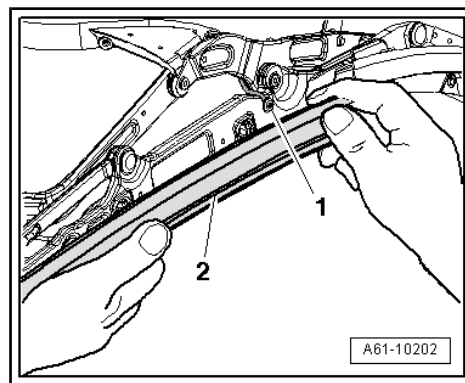
- Before disengaging tensioning cables, mark engaging sequence (e.g. top, bottom, centre).
- Drill off rivet head at spring and pull spring forwards with tensioning cables.
- Disengage tensioning cables (3x); this should release spring and eyelets of tensioning cables should slip over spring.



- Unfasten front of headliner from retaining brackets at sides (left and right) -arrow-.
- Remove bolts -1- from retaining strip -2- at front cross strut.
- Detach tensioning cables from roof guide elements »1« and »4« from the side and thread tensioning cable out of eyelet on headliner and out of guide eyelets.



- Unbolt seal -2- from centre and rear attachment points and fold away at rear attachment point so that bolt lying underneath is accessible.
- Unbolt retaining strap -1- on outside from roof guide element »2«.
- Unbolt cross strut trim panels one after the other and detach from cross struts.
- Unfasten headliner from clips (all around) and detach from rear window frame towards centre of rear window.



Note

Make exact notes on routing of heating conductor cables and position of cable ties for re-installation.

- Unplug heating conductor cable (right-side) from rear window and take cable out of vertical fabric pouch (velcro fastener).
- Pull cable out of lower cable pouch towards left.
- Drill out rivet at tensioner (right-side) and detach piping of headliner (bottom) from tensioner towards right side.

Components of convertible roof headliner



Note

The following designations are used in this section.



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1 - Loop

2 - Tensioning cable 8

- ❑ Routing ⇒ [page 91](#)

3 - Cross strut trim panels

- ❑ Installing ⇒ [page 90](#) .

4 - Retaining strap

- ❑ Installing ⇒ [page 91](#) .

5 - Tensioning cable 11

- ❑ Routing ⇒ [page 93](#)

6 - Tensioning cable 10

- ❑ Routing ⇒ [page 93](#)

7 - Tensioning cable 9

- ❑ Routing ⇒ [page 93](#)

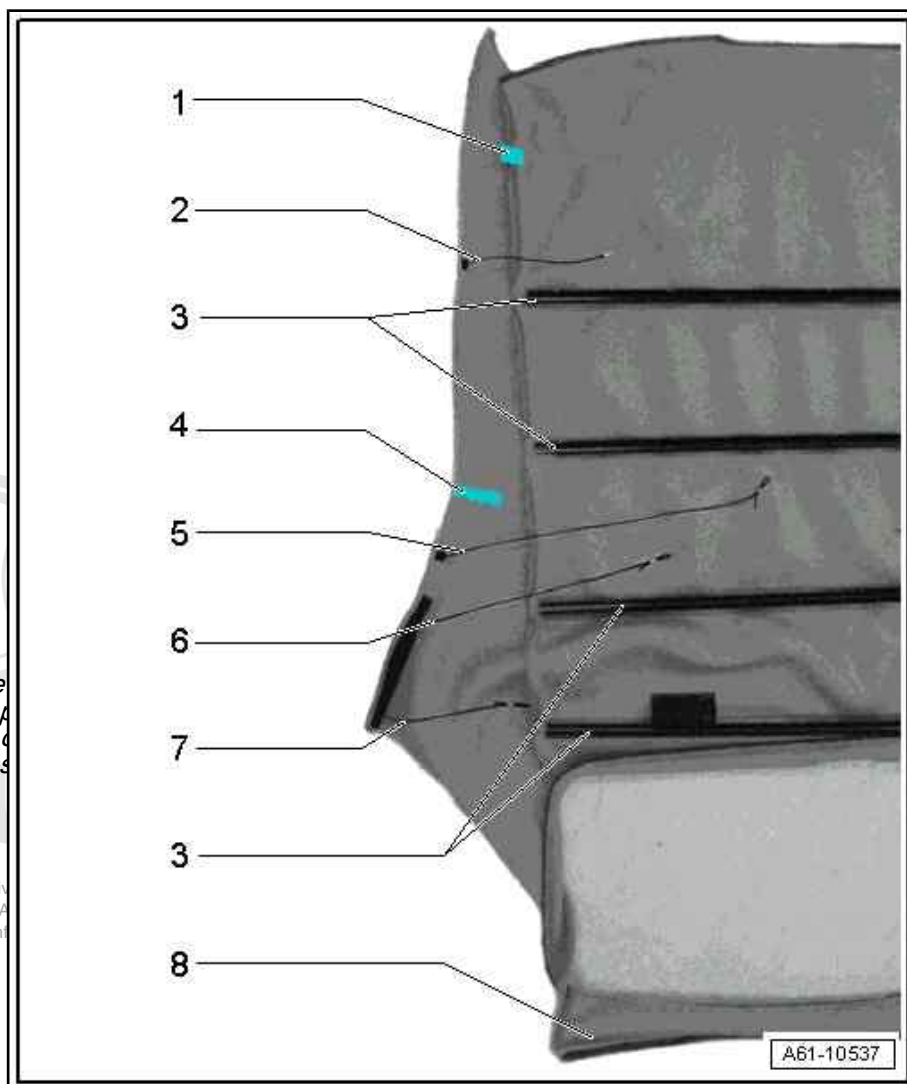
8 - Cable pouch



Note

Before pulling out cable for rear window heating, secure a piece of string or similar to end of cable to make re-installation easier.

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Installing headliner



Note

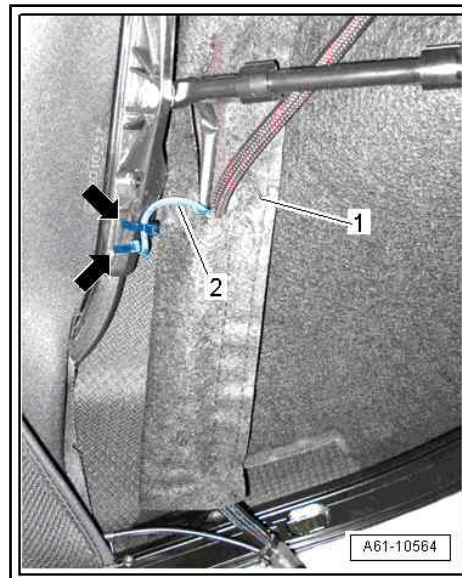
- ◆ *When installing, tighten all bolts for securing headliner to front cross strut and bolts at side on brackets to 1.5 ... 2 Nm.*
- ◆ *Tighten bolts for cross strut trim panels to 2.5 Nm.*
- ◆ *Thread in a piece of string or similar to make it easier to pull the cable for rear window heating into the cable pouch underneath the rear window later on.*
- Thread piping of headliner into right side of channel recess at tensioner and pull through to the left.
- When headliner is positioned centrally, set rivet on right side in piping channel.

- Using piece of string, route heating conductor cable -2- through cable guide in tensioning strap pouch -1- upwards to connector (from left to right) and plug in.

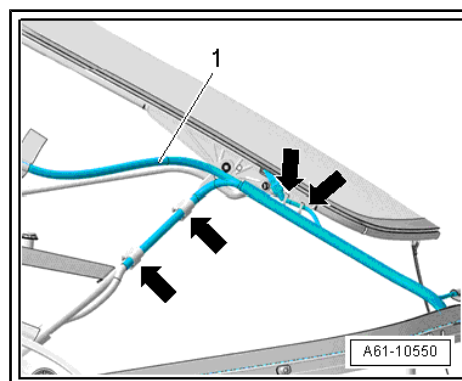


Note

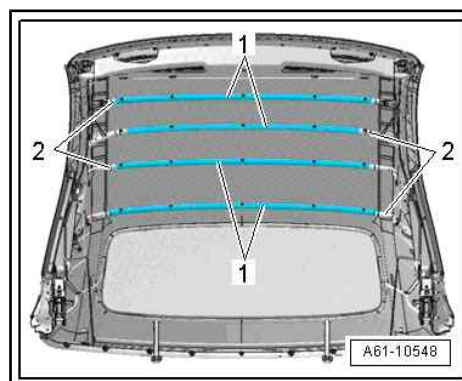
Make sure cable tie fastener is positioned correctly (sharp edges).



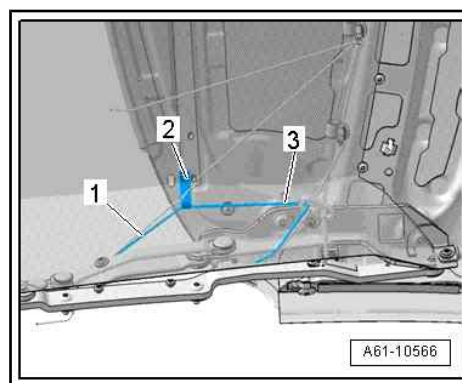
- Secure routed cable to rear window frame with cable ties -arrows-, as shown.



- Starting at rear and working forwards, attach cross strut trim panels -1- to cross struts -2- and secure with bolts.



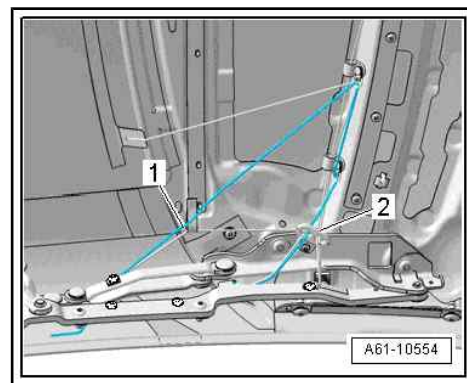
- Pull in tensioning cable »3« -1- from convertible cover towards front through loop -2- on headliner and through guide eyelet -3- (front outer edge), and bolt it to roof guide element »1« ...



- ... together with tensioning cable »4« -item 1- from the outside.

i Note

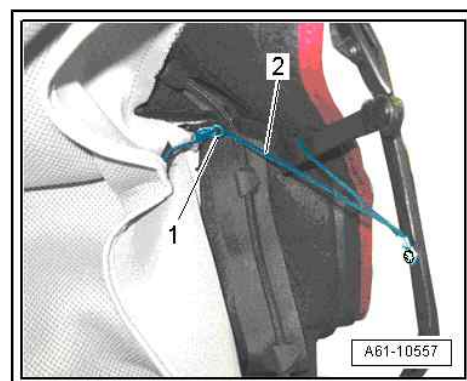
- ◆ Only tighten bolts to such an extent that eyelets can still be turned.
- ◆ Secure bolts at eyelets with locking fluid.



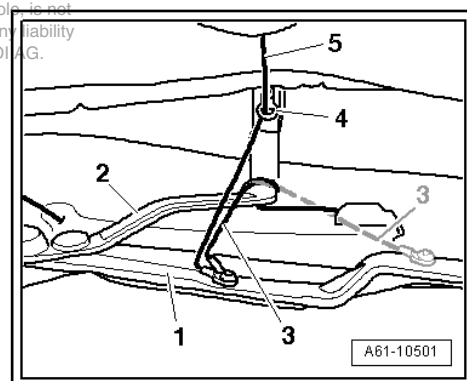
- Route tensioning cable »8« -item 2- through upper guide eyelet -1- at cross strut »2« and bolt onto guide element »4« from the inside together with tensioning cable »5« of convertible roof cover.

i Note

On vehicles on which the tensioning cable -3- for the cover is routed in the old way (dotted line in illustration), the attachment point must not be loosened or altered.



- On vehicles with a new convertible roof, the tensioning cable for the cover must be bolted on underneath the tensioning cable for the headliner.

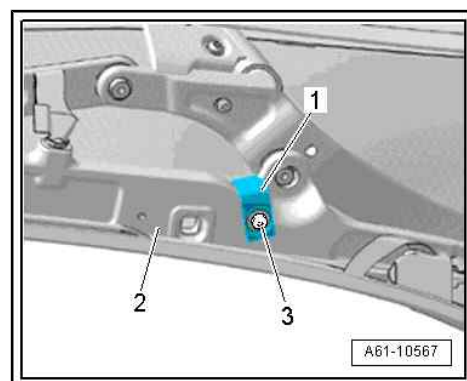


- Place retaining strap -1- evenly over roof guide element -2- and bolt on from the outside.
- Secure guide rail and seal »3« by tightening bolts to torque => Item 1 (page 80) .

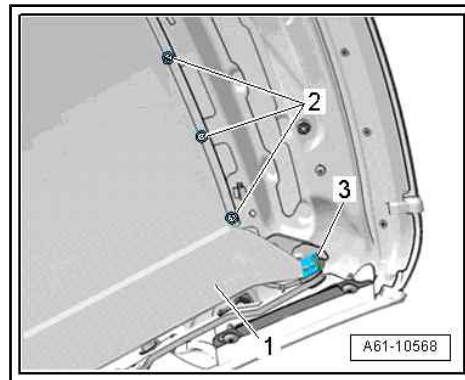


Caution

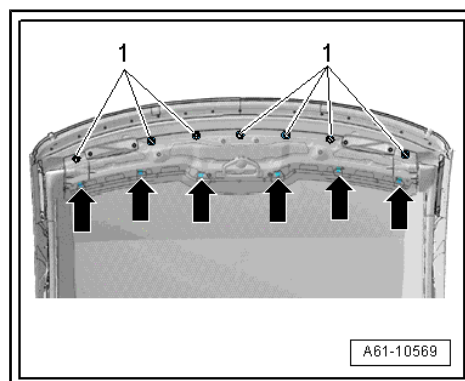
Make sure spacers are properly fitted.



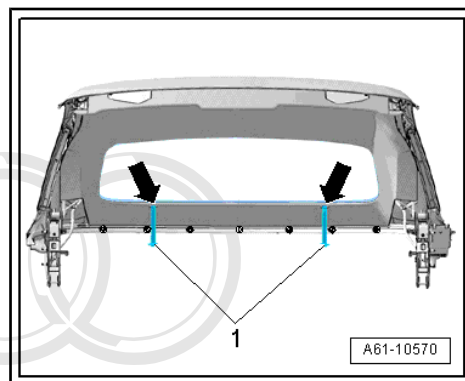
- Bolt headliner -1- onto front cross strut and at sides at retaining brackets -3-.



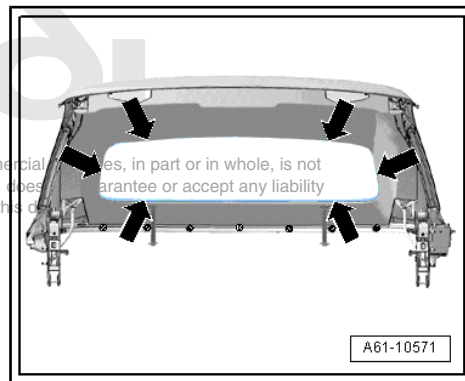
- Clip in trim for front cross strut at rear (6x) -arrows- and secure at front with bolts (7x) -1-.



- Thread tensioning straps through openings in headliner beneath rear window.
- Remove old metal clips from rear window frame.
- For pre-assembly, first press headliner into frame all around at rear window (without metal clips).
- Starting from one of the bottom corners, first press headliner frame (bottom) into rear window frame by hand.
- Subsequently press in headliner frame upwards on both sides.
- Press in headliner frame across top.



- Now carefully pull headliner out again at positions marked with -arrows- one after the other and attach new metal clips (6x).
- Finally, use a plastic wedge to press headliner on until it is fully and evenly engaged in rear window frame.



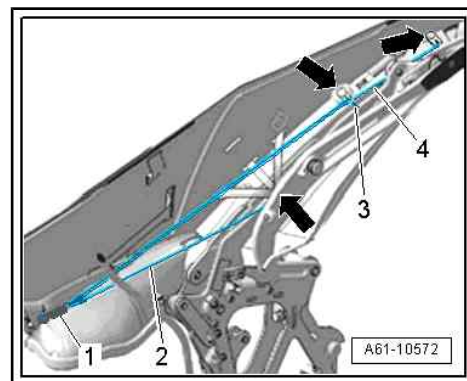
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- Thread tensioning cables »9«, »10« and »11« (-items 2, 3 and 4-) into corresponding eyelets -arrows- and engage in spring -1- at bottom.



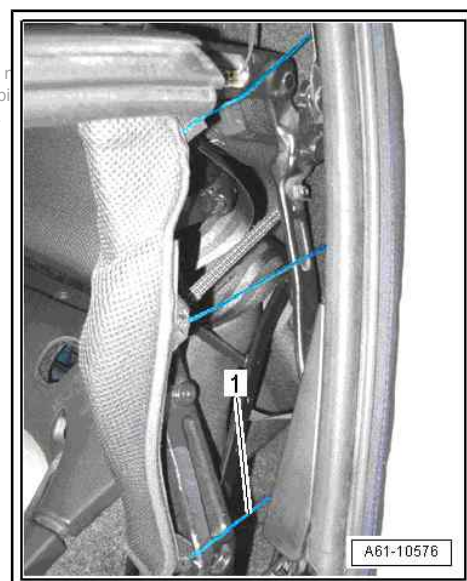
Caution

Do not twist tensioning cables.

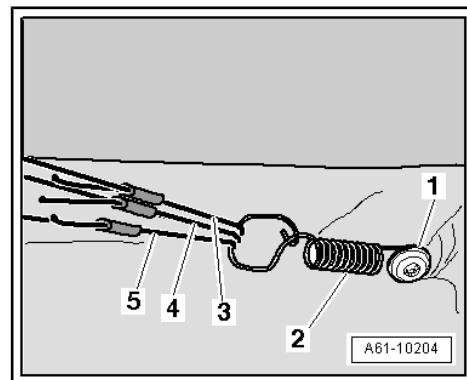


- Tensioning cable »9« (-item 1-) must be routed across main guide element as shown.

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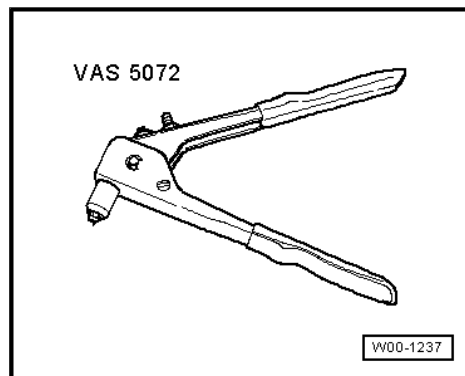
- Engage tensioning cables »9«, »10« and »11« (-items 5, 4 and 3-) in spring according to markings made during removal (top, centre, bottom) and fasten spring.
- Take care not to twist tensioning cables.
- After installing convertible roof compartment lining, fit retaining clips for tensioning straps beneath rear window.
- Adjust straps so that they are tensioned (approx. 3 ... 5 mm) when convertible roof is closed; shorten straps if there is excess length.



1.10 Renewing convertible roof cover

Special tools and workshop equipment required

◆ Pop rivet pliers - VAS 5072-



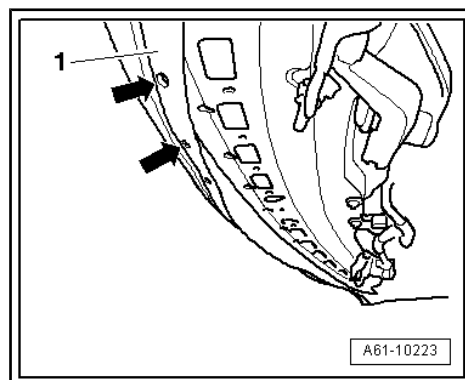
Removing



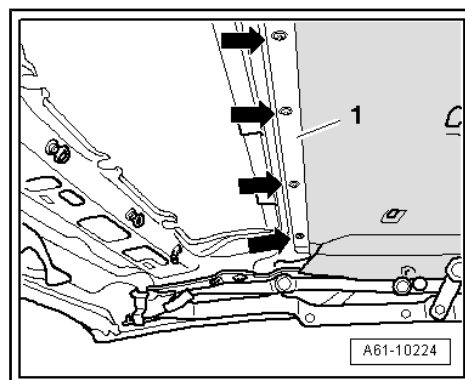
Caution

- ◆ *Before tensioning cables and retaining straps are removed, mark or take pictures of their positions to ensure that you can re-install them at their original positions.*
- ◆ *When removing the retaining rails for the convertible roof seals, make a note of the number and thickness of the washers (for lateral adjustment) to ensure that they are installed correctly.*

- Headliner removed ⇒ [page 86](#) .
- Remove trim from cross strut »1«.
- Remove seals »1«, »2« and »4«.
- Unscrew bolts -arrows- at front of front cross strut from retaining strip -1-.



- Unbolt retaining strip -1- at rear of front cross strut.
- Drill out rivet heads (3x) on guide rail for seal for main guide element ⇒ [Item 4 \(page 80\)](#) and detach seal and cover from retaining bracket.
- Before removing tensioning cables, clearly mark their position and attachment points on the convertible roof frame and on the cover (1, 2, 3 etc.).



- Detach tensioning cables and tensioning straps for regulation of cover and pull through guide eyelets.

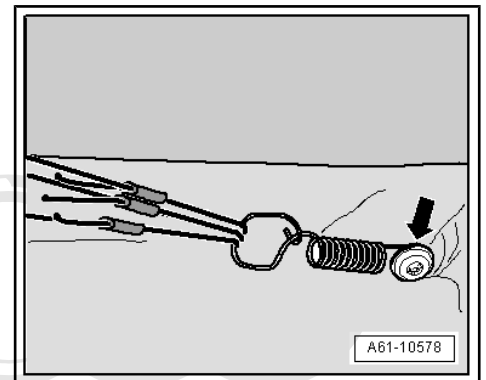
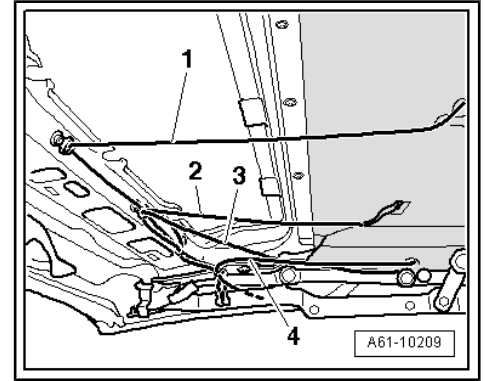
i Note

Screw in bolts again loosely immediately after unfastening cables/guide eyelets.

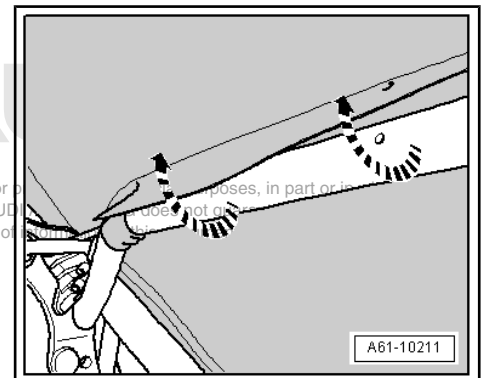
- On fully automatic convertible roof, unplug electrical wiring and remove.
- Unbolt tensioner and pull out fabric retaining strip of convertible roof cover.
- Drill out rivet head -arrow- at spring with tensioning cables.
- Drill out rivet head at tensioning cable »6« for splash guard.

i Note

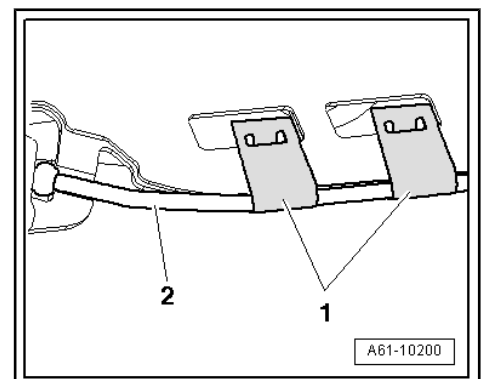
Mark positions of fabric flaps for cross struts with a white felt-tip pen or similar on both sides (for half-open positioning) and mark end of cross strut flaps on cross strut tube (for tensioning at convertible roof cover).



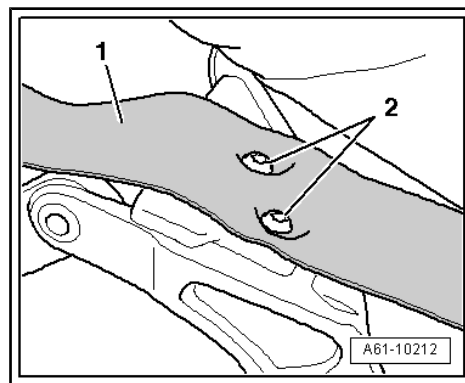
- Unfasten cross strut flaps and pull them off cross strut tube.



- Remove adhesive tape from front cross strut and detach clips -1- at tensioning cable -2- from front cross strut to the side.
- Bring convertible roof to half-open position, fold convertible roof cover at front cross strut towards rear and disengage tensioning cable -2-.
- Remove rear window guide element and guide link (only on right side) from rear window (unscrew flange bolt TX 30).
- Place convertible roof cover towards rear over rear window and at the same time pull tensioning cable out of cover.



- Disengage tensioning strap from front cross strut and unbolt from all cross struts.
- Convertible roof cover can now be lifted off convertible roof frame.
- Pull retaining strip of convertible roof cover out of tensioning strap downwards at an angle.



Disengaging tensioning cable for front cross strut

1 - Extension spring for tensioning cable

2 - Eyelet for extension spring

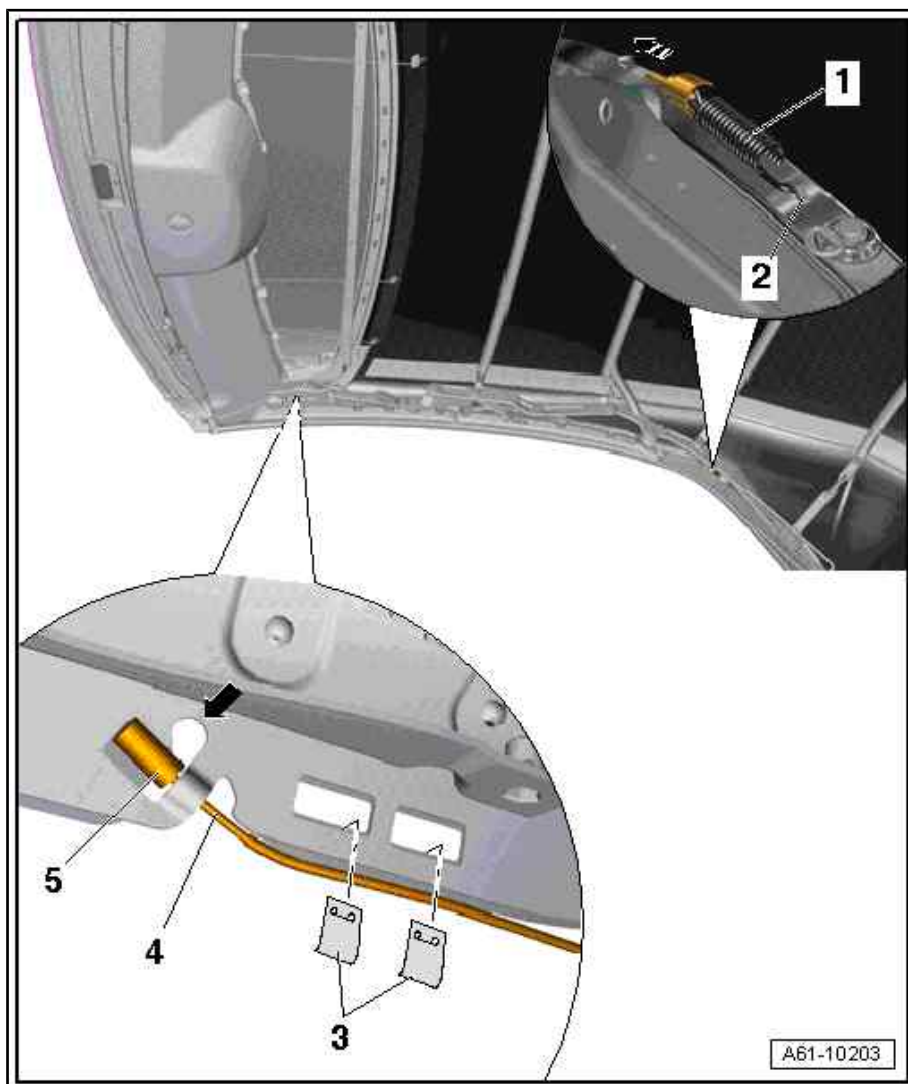
3 - Retaining clips

- ❑ To remove, bend open slightly and pull clips off front cross strut.
- ❑ When installing, mask off with fabric adhesive tape.

4 - Tensioning cable

- ❑ Disengage nipple of tensioning cable from front cross strut -arrow-.

5 - Nipple



Components of convertible roof cover



Note

The following designations are used in this section.

1 - Fabric flaps for cross struts

- ☐ Adjusting tension for convertible roof cover
⇒ [page 100](#)

2 - Tensioning strap

- ☐ Attaching ⇒ [page 103](#)

3 - Tensioning cable »3«

- ☐ Routing ⇒ [page 101](#)

4 - Tensioning cable »1«

- ☐ Routing ⇒ [page 101](#)

5 - Tensioning cable »2«

- ☐ Routing ⇒ [page 101](#)

6 - Tensioning cable »4«

- ☐ Routing ⇒ [page 102](#)

7 - Tensioning strap »1«

- ☐ Attaching ⇒ [page 102](#)

8 - Tensioning strap »2«

- ☐ Attaching ⇒ [page 102](#)

9 - Tensioning cable »5«

- ☐ Routing ⇒ [page 102](#)

10 - Tensioning cable »7«

- ☐ Attaching ⇒ [page 104](#)

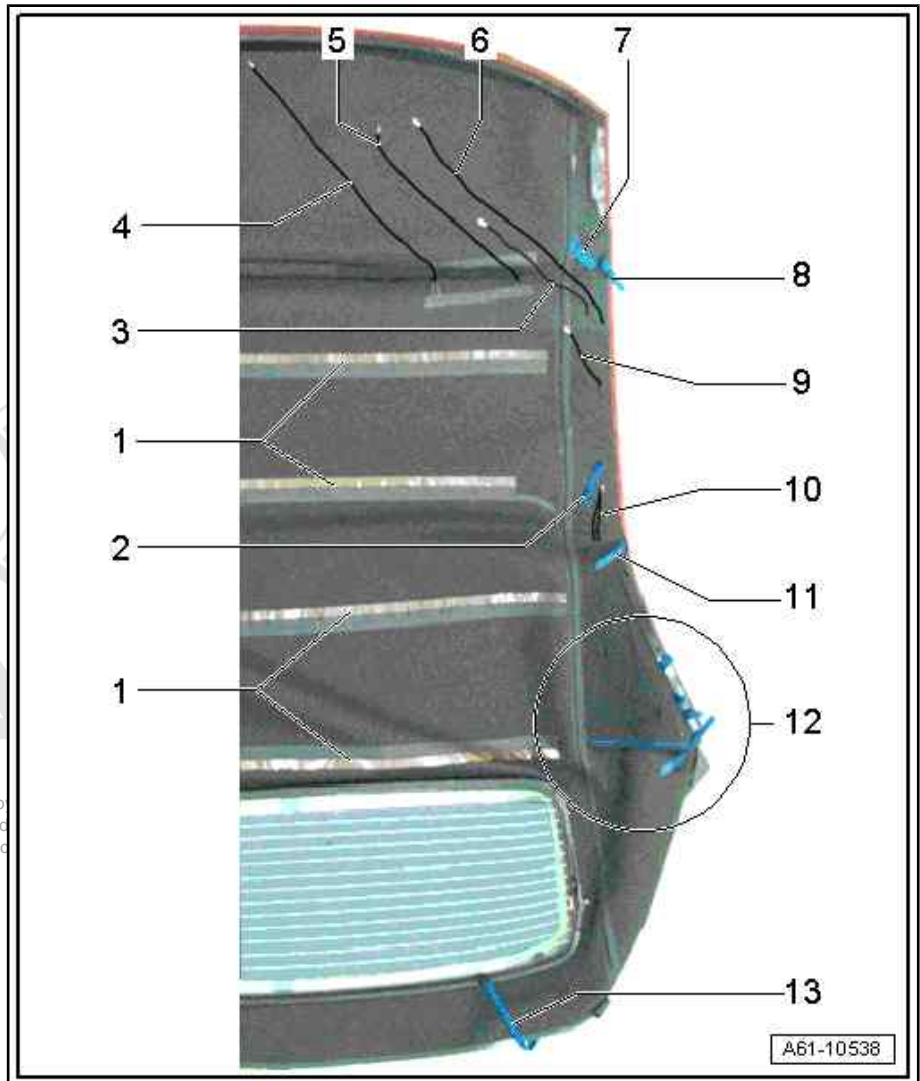
11 - Tensioning strap for retaining bracket

- ☐ Attaching ⇒ [page 99](#)

12 - Straps for C-pillar

- ☐ Attaching ⇒ [page 103](#)

13 - Strap for rear window



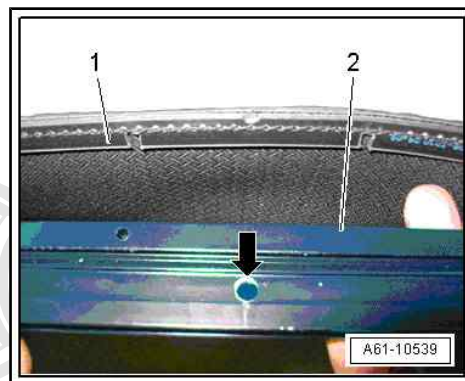
Installing convertible roof cover



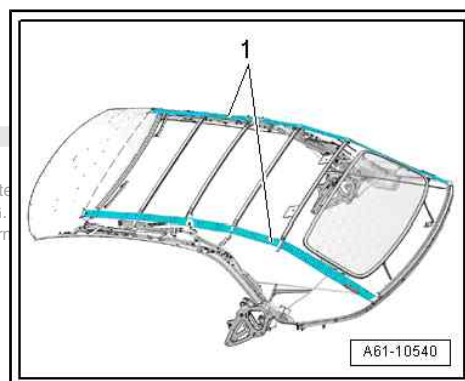
Note

- ◆ First remove retaining clips from old convertible roof cover and attach them to plastic strip of new convertible roof cover; pay attention to central positioning (indentation).
- ◆ Tighten all bolts on retaining strips (front and rear) for securing cover at front cross strut to 1.5 ... 2.0 Nm.
- ◆ Tighten bolts for securing tensioning straps to cross struts to 2 Nm.

- Insert convertible roof cover into fabric retaining strip on tensioner.
- Place convertible roof cover with fabric retaining strip in convertible roof well.

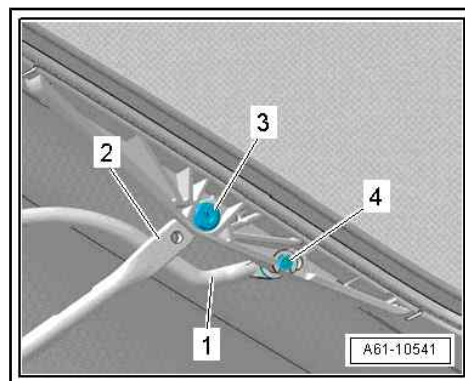


- Engage tensioning straps (left and right) at front cross strut and secure to cross struts with bolts.



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- Install rear window guide element -2- and guide link -1- at rear window.
- Screw in bolt -3- with locking fluid and tighten to torque ⇒ [Item 13 \(page 73\)](#).
- Attach locking spring -4- to pin.



Caution

Routing of steel cables has changed for new convertible roof covers.

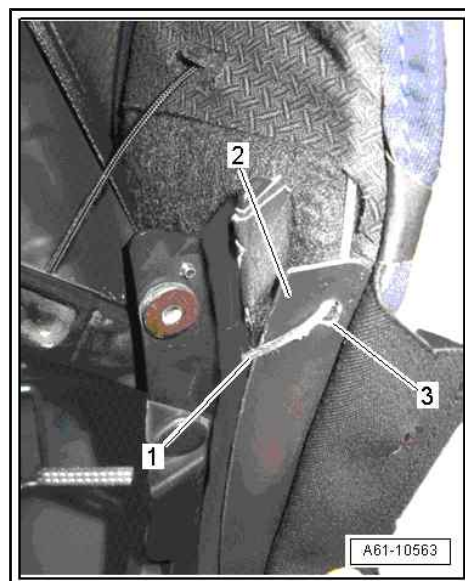
- Renew adhesive strip; round off edge beneath if necessary.
- Thread cable through hole in plastic strip at top edge of retaining bracket.



Caution

Pull in steel cable in the direction indicated by the illustration.

- Pull steel cable into convertible roof cover using a bent piece of welding wire or similar.



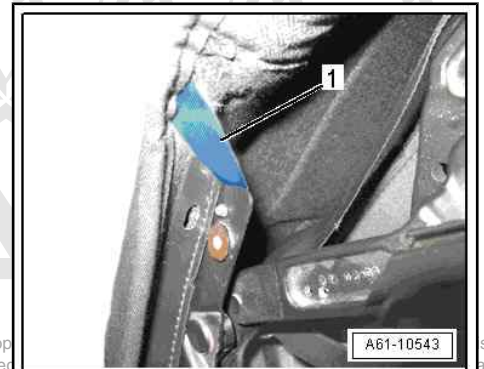
- Cable must be routed at outer edge of convertible roof.



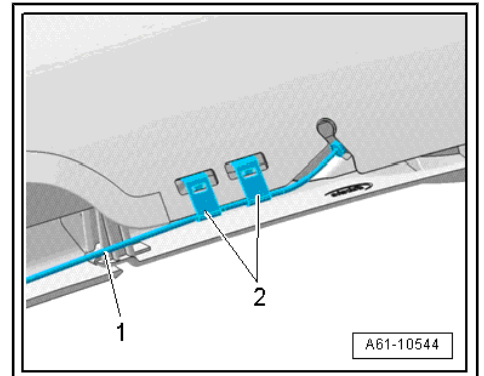
- Rivet strap -1- for retaining bracket to inside of retaining bracket (Ø 3.2 x 8 mm pop rivet).



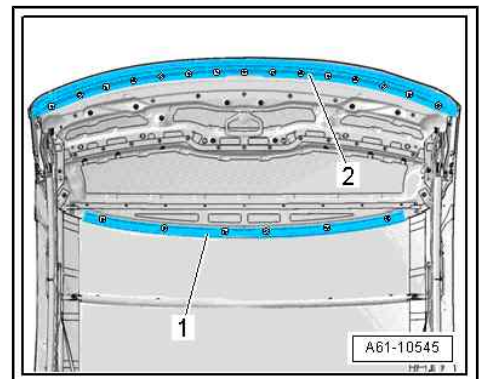
On old convertible roofs, strap is secured with a bolt.



- Engage tensioning cable -1- at side of front cross strut and secure with retaining clips -2-.
- Mask off clips with fabric adhesive tape.
- Place convertible roof cover across front cross strut.
- Bond side flap (rear) on according to markings made during removal of old convertible roof cover.



- Bolt front retaining rail to front cross strut (15x).
- Bolt plastic strip (only on fully automatic convertible roof) of insulation to front cross strut (11x).

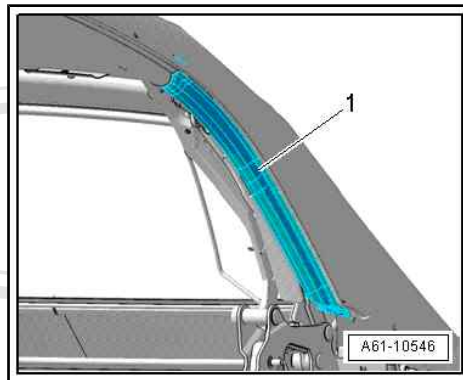


- Starting at bottom, rivet C-pillar seal »4« (-item 1-) to convertible roof cover at retaining bracket using pop rivet pliers - VAS 5072- and long nozzle supplied.



Caution

Make sure steel cable is correctly installed and is not trapped or stuck.



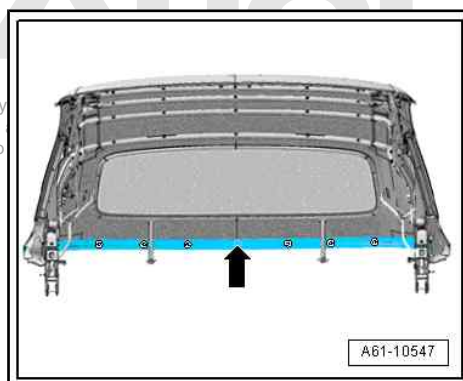
- Fit tensioner onto centring pin -arrow- in centre of vehicle and secure loosely with two bolts (left and right).



Caution

Note different bolt lengths.

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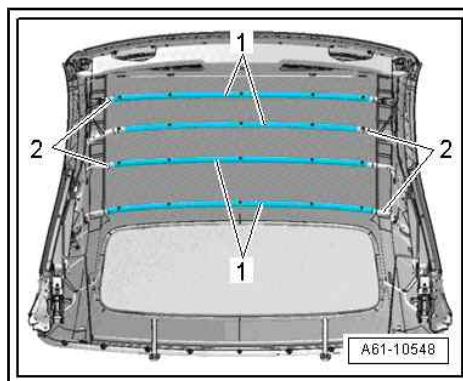
- Starting in centre, tighten tensioner to torque [⇒ page 77](#).
- Close convertible roof and align cover centrally.

- Secure cross strut flaps to cross struts without pre-tension and approx. 2 ... 3 mm from markings so that fabric of convertible roof cover is not pulled inwards.
- Fold back fabric flaps at cross struts 2 ... 4 from front to rear.
- Fold back fabric flap at cross strut »5« from rear to front.

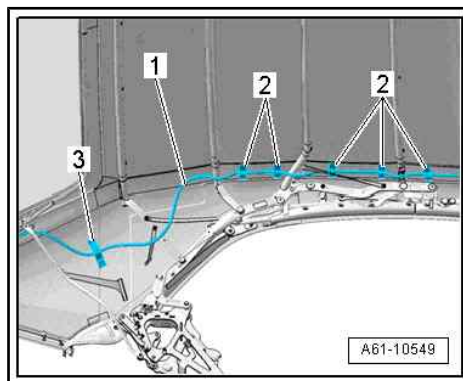


Caution

- ◆ **Make sure that fabric of convertible roof cover is not pulled inwards when the roof is closed.**
- ◆ **Observe distance of 2 ... 3 mm from markings on cross strut.**
- ◆ **If necessary, unfasten cross strut flaps and bond them on again.**

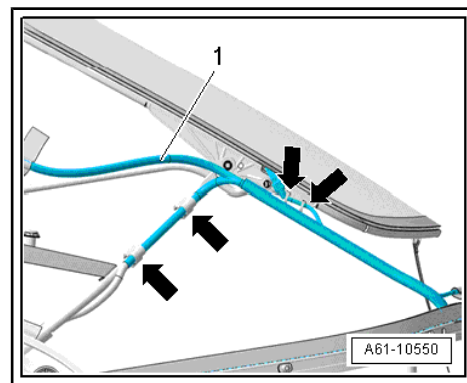


- Pull in electrical wiring -1- through pouch at rear left of tensioning strap and on vehicles with fully automatic convertible roof secure in loops along tensioning strap with Velcro fasteners -2-.
- Hook and loop sides of Velcro fasteners must engage fully.

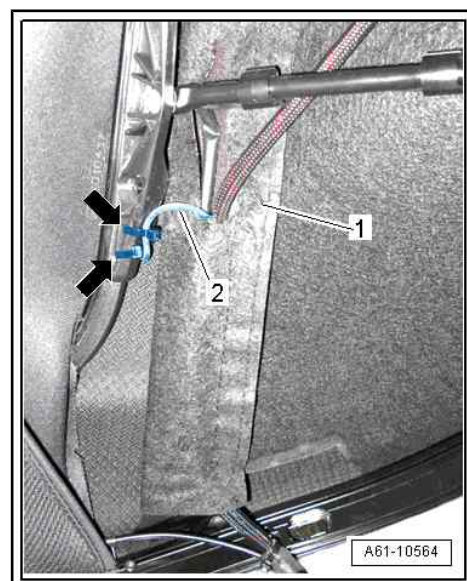


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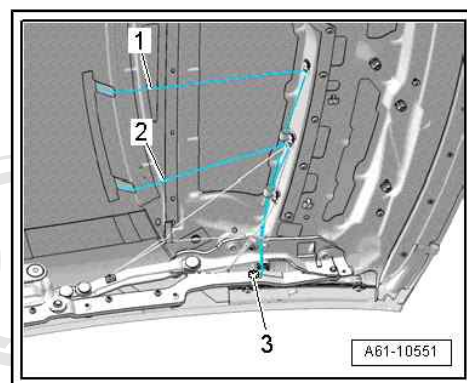
- When routing cables for rear window heating, pay attention to position of cable tie fasteners.



- Fasten top corner of Velcro pouch with a stapler or similar (2x) and flatten staples using pliers. Velcro hooks must not protrude from edges.
- Pull all tensioning cables back into guide eyelets according to markings made during removal and secure to frame.



- Guide tensioning cables »1« and »2« first through eyelets on front cross strut and then through front hole in double eyelet towards outside and bolt onto roof guide element »1« from inside -3-.



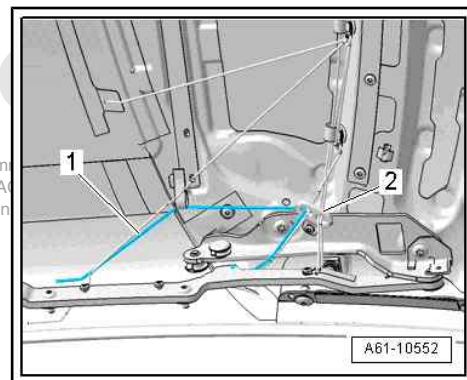
- Route tensioning cable »3« (-item 1-) through double eyelet -2- towards outside as shown and bolt onto roof guide element »1« from outside (together with tensioning cable »4«).



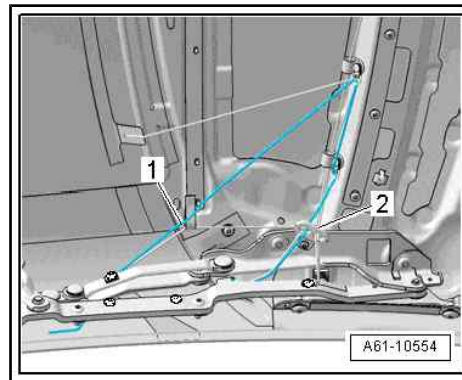
Note

Tensioning cable »3« must be detached again before headliner can be installed.

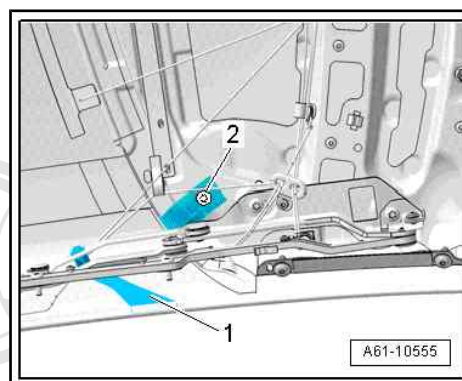
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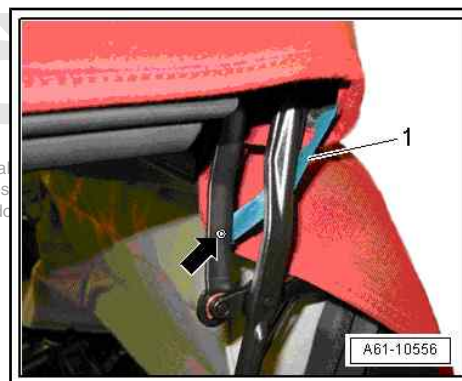
- Route tensioning cable »4« through double eyelet -2- towards outside as shown and bolt onto roof guide element »1« from outside (together with tensioning cable »3«).



- Secure tensioning strap »1« (-item 2-) to rear edge of front cross strut.



- Bolt tensioning strap »2« (-item 1-) to inside of control lever for cross strut »2«.

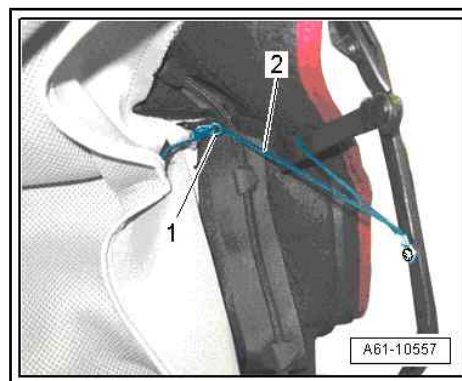


- Route tensioning cable »5« (-item 2-) as shown across retain-er for cross strut »2« and secure to inside of guide element »4«.



Note

- ◆ When installing interior headliner, another strap is bolted on.
- ◆ The attachment point for new convertible roofs has changed.



- Bolt tensioning strap -1- onto outside of guide element »3« as shown.

i Note

The attachment point for new convertible roofs has changed (from inside to outside).

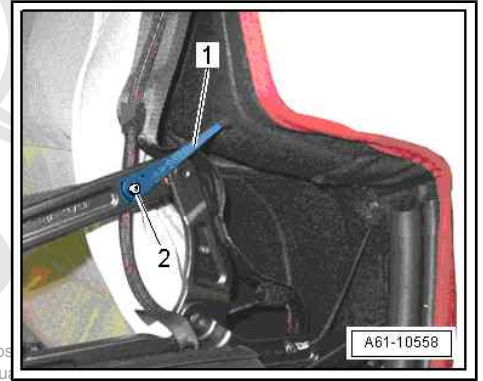
- Secure tensioning straps to convertible roof linkage in area of C-pillar as shown.



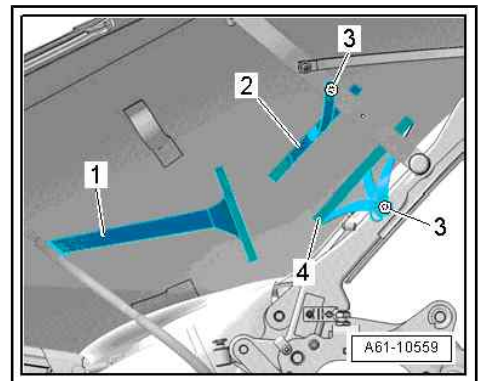
Caution

Take care not to twist straps.

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- Bolt strap »1« to top side of rear window guide element.
- Bolt strap »2« to corner retainer for strut.
- Bolt 3-part strap »3« to inside of main guide element with a metal guide eyelet.
- Rivet tensioning cable »6« to tensioner.

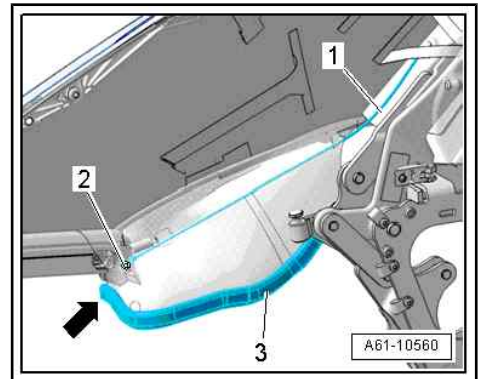


- Place water pocket (splash guard) over tensioning cable »6«, and attach piping profile -3- from rear -arrow- to front onto water drip tray.

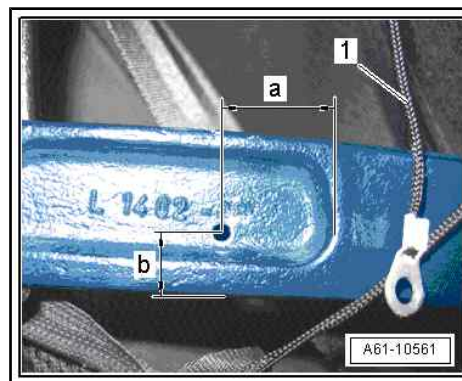
i Note

On new convertible roof covers there is an additional tensioning cable -1-.

- For assembly, a hole (M4 thread) must be drilled into roof guide element »2« on left and right.



- Make hole (M4 thread) with dimensions a = 19 mm and b = 12 mm.

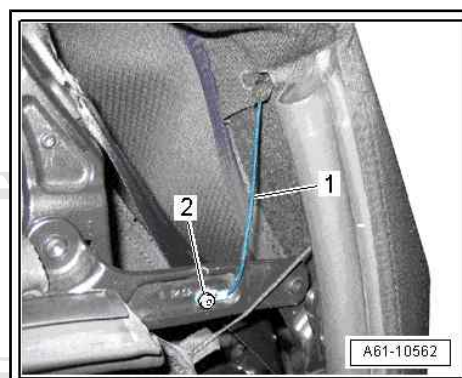


- Bolt tensioning cable »7« (-item 1-) onto roof guide element »2« with M4x8 mm bolt as shown.

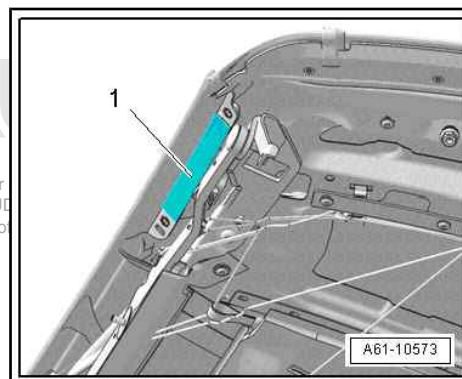


Caution

When installing, eyelet must face horizontally towards rear and must not be bent open.



- Fold back front cross strut lugs (left and right) and secure with adhesive tape.
- Install seal »1«; observe number and thickness of washers.
- Close convertible roof and make sure that fabric of convertible roof cover is not pulled inwards.
- If necessary, unfasten cross strut flaps and bond them on again.
- Install headliner ⇒ [page 89](#).



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2 Repairing hydraulic system for convertible roof

2.1 General information on hydraulic system

- ◆ The hydraulic system is self-bleeding and maintenance-free.
- ◆ After all repairs in which hydraulic connections are opened or parts of the hydraulic system are renewed, check the fluid level and top up to the marks on the reservoir if required.

2.2 Rules for cleanliness



Caution

Hydraulic fluid damages the paintwork. For this reason, immediately remove any hydraulic fluid which may drip onto painted surfaces.

- ◆ Thoroughly clean connection points and the surrounding areas before opening the connection.
- ◆ Place removed components on a clean surface and cover them. Use foil or paper. Use only lint-free cloths!
- ◆ Carefully cover / seal opened components if repairs are not performed immediately.
- ◆ Only install clean components; replacement parts must not be removed from their packaging until just before installation.
- ◆ Place containers, plastic foil or cloths under connections to be opened, so that no hydraulic fluid comes into contact with painted surfaces.
- ◆ Seal open hydraulic lines with plugs to stop hydraulic fluid running out.

2.3 Filling and bleeding the hydraulic system



Note

- ◆ *The electro-hydraulic convertible roof is actuated by a sealed hydraulic system. The system will normally only need filling if there has been a loss of fluid (accident, leak etc.).*
- ◆ *Due to the stroke and displacement effect of the pistons in the hydraulic cylinders, the convertible roof must be in the storage compartment (retracted position) when the hydraulic system is filled.*
- ◆ *After filling the system, operate the convertible roof several times.*
- ◆ *Then check the fluid level once again and top up if necessary.*



Caution

Never fill the system beyond the "MAX" mark, as the pressure in the system could otherwise become so great that damage might occur.

2.4 Exploded view - hydraulic system



Caution

- ◆ *The valve on the hydraulic pump must be opened before working on the hydraulic system.*
- ◆ *The relevant seals must always be renewed after any repairs which involve opening the hydraulic fluid circuit.*

1 - Hydraulic cylinder

- Remove convertible roof before removing
⇒ [page 74](#).
- Removal ⇒ [page 112](#)

2 - Clip

- Press in on left and right

3 - Hydraulic line

- Unclip hydraulic line from cross member on body -arrows-.

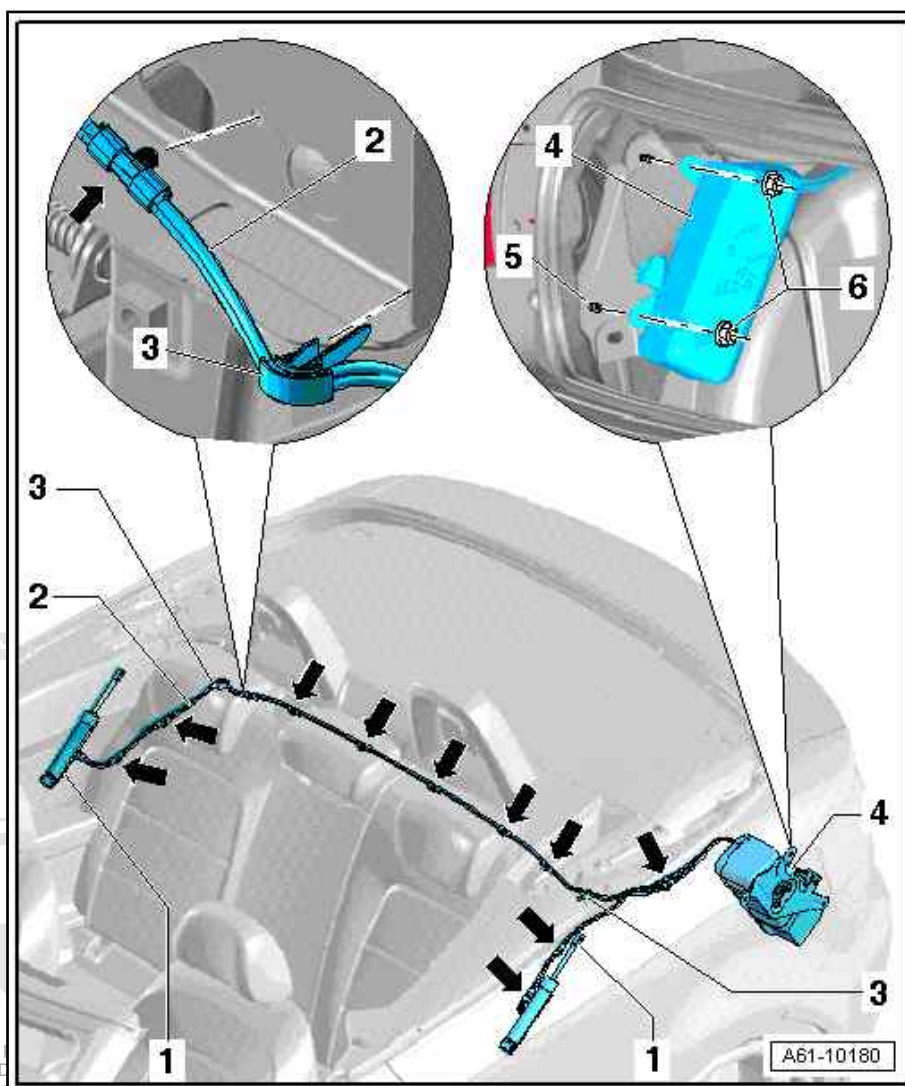
4 - Housing for hydraulic pump

- To remove, unscrew bolts -4- and lift housing out of body

5 - Stud

6 - Nut

- 10 Nm

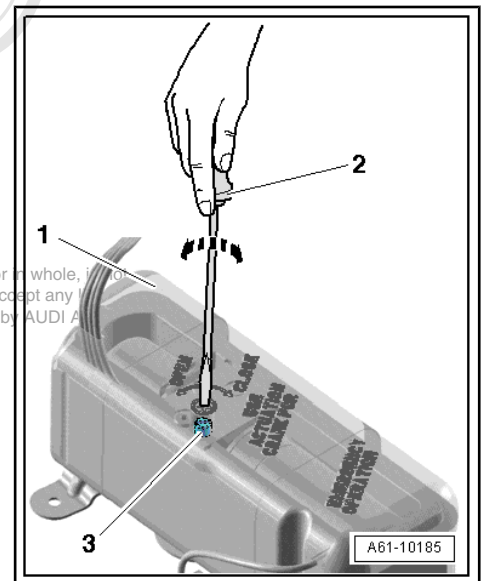


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Valve for hydraulic pump

- After valve for hydraulic pump has been opened, convertible roof can be moved by hand.
- Insert screwdriver -2- through aperture -3- in lid -1- of pump housing and open valve on hydraulic pump by turning screw on valve 180° anti-clockwise.
- Tighten screw to 4 Nm when closing valve on hydraulic pump.

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2.5 Removing hydraulic pump



Caution

Always renew O-rings after opening connections

1 - Bracket

2 - Housing for hydraulic pump

- ❑ Removed from body

3 - Electrical connector

4 - Hydraulic pump

- ❑ To remove, unscrew bolts from bracket and take off lid with noise insulation.

5 - Bolts

- ❑ 6 Nm

6 - Hydraulic line

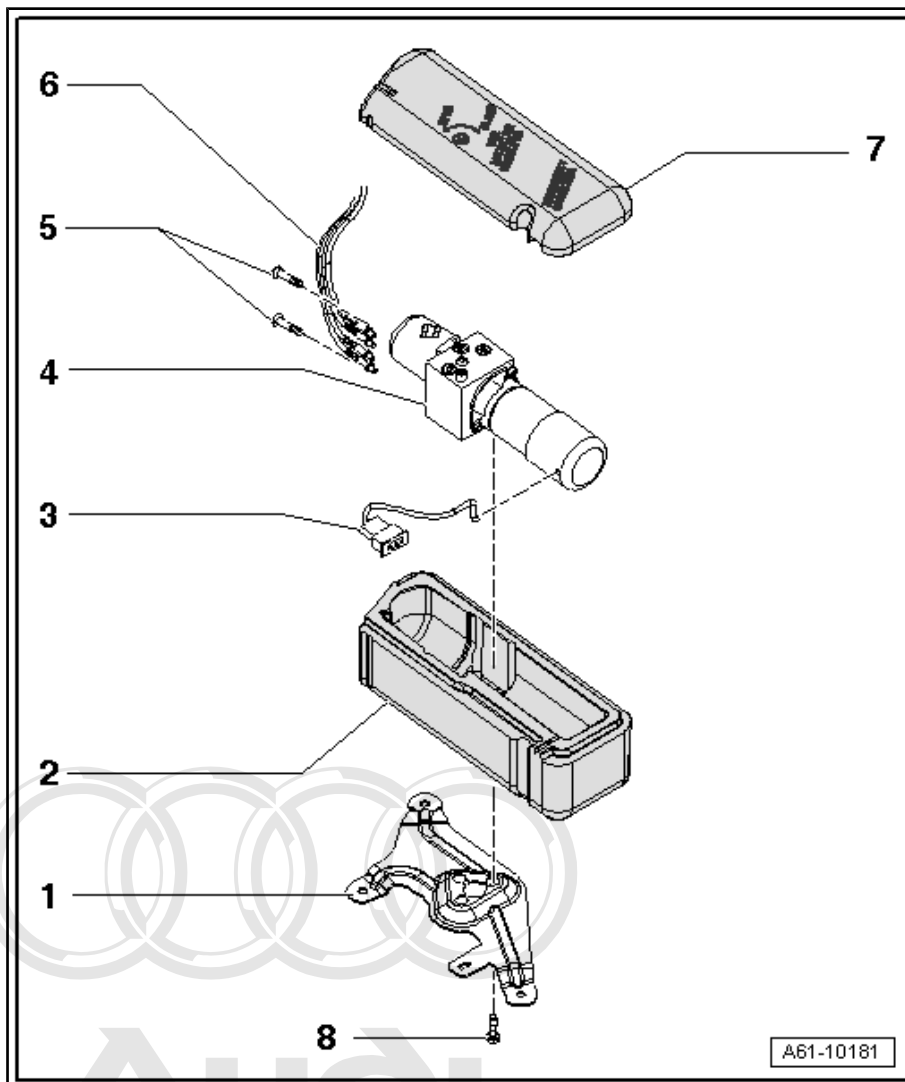
- ❑ Lift hydraulic pump out of housing.
- ❑ To remove, unscrew retaining bolt -5- and pull connection pieces with hydraulic line out of pump block -4-
- ❑ Before installing, fit new O-rings on connection pieces.



Caution

The collars of the connection pieces must make full contact before the retaining bolts are tightened.

- ❑ When installing, push connection pieces fully into pump block and tighten retaining bolts -5- to 6 Nm.



A61-10181

7 - Lid of housing

8 - Bolt

- ❑ 14 Nm

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Renewing fluid reservoir

1 - Fluid reservoir

- ☐ Open filler plug -2- to vent pump before removing
- ☐ To remove, loosen bolt on clamp far enough to allow you to pull fluid reservoir off pump block
- ☐ Pull alternate sides of fluid reservoir to remove from pump block
- ☐ Always renew O-ring
- ☐ Open filler plug -2- to vent pump before installing
- ☐ When installing, push on fluid reservoir as far as first stop
- ☐ Then adjust fluid reservoir to correct position and push fully onto pump block
- ☐ Fluid reservoir will snap into place in pump block
- ☐ O-ring must fit properly in slot
- ☐ After checking these points, push on clamp -6- and tighten bolt -7- to specified torque

2 - Filler plug



Note

Slacken plug to vent pump when removing or fitting fluid reservoir

- ☐ 5 Nm

3 - Pump block

4 - Hydraulic pump motor

- ☐ Renewing ➔ [page 110](#)

5 - Valve for manual operation

- ☐ 4 Nm

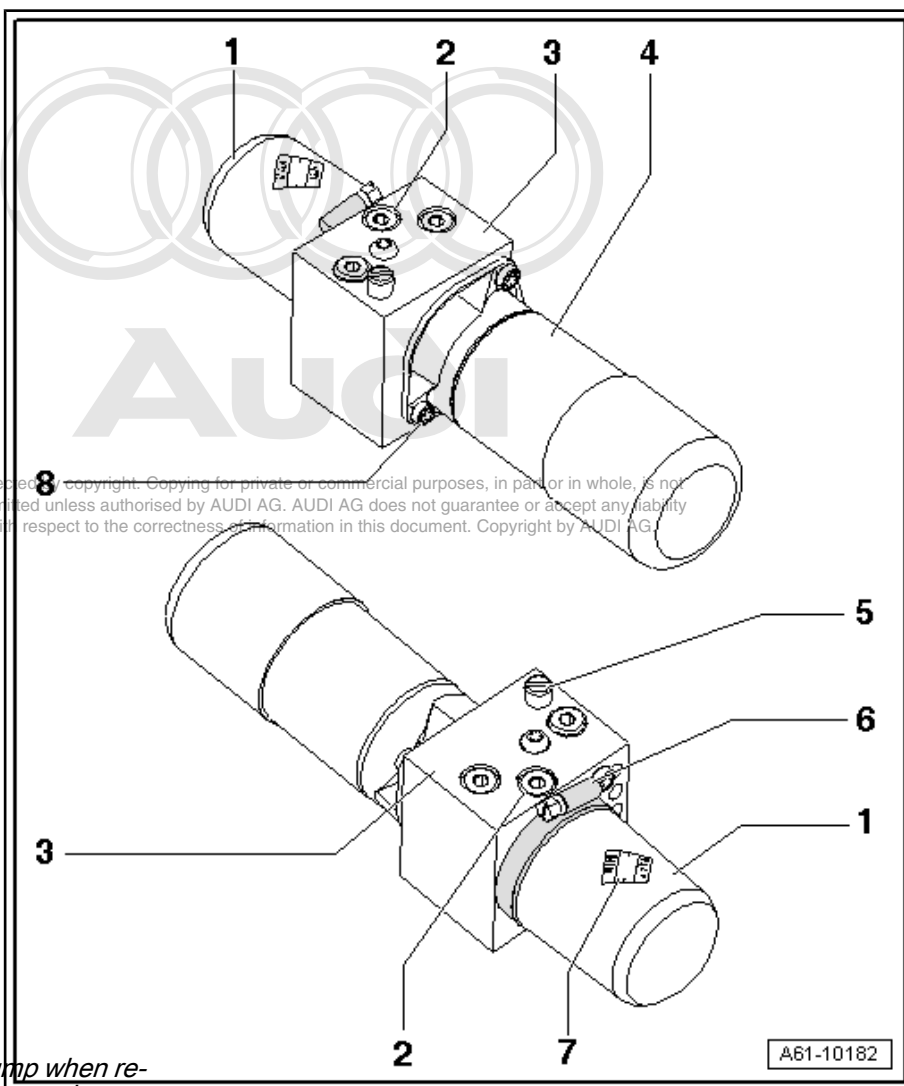
6 - Clamp

7 - Fluid level marks

- ☐ To check fluid level, pump must be in installation position in vehicle.
- ☐ If fluid level is between markings »min« and »max«, fluid level is correct.

8 - Bolt

- ☐ 6 Nm



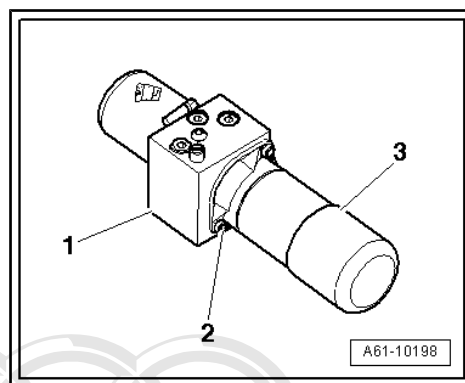
2.6 Renewing pump motor



Caution

- ◆ *Hydraulic fluid will escape when the pump motor is removed.*
- ◆ *Catch escaping hydraulic fluid with a suitable container and dispose of the fluid in the proper manner.*
- ◆ *Hydraulic fluid damages the paintwork. For this reason, immediately remove any hydraulic fluid which may drip onto painted surfaces.*

- Pump removed.
- Remove bolts -2- and pull motor off pump block -1-.
- Fit new seal and install new motor -3- in pump block.
- Tighten bolts to specified torque ⇒ [Item 8 \(page 109\)](#) .



2.7 Checking fluid level in hydraulic pump

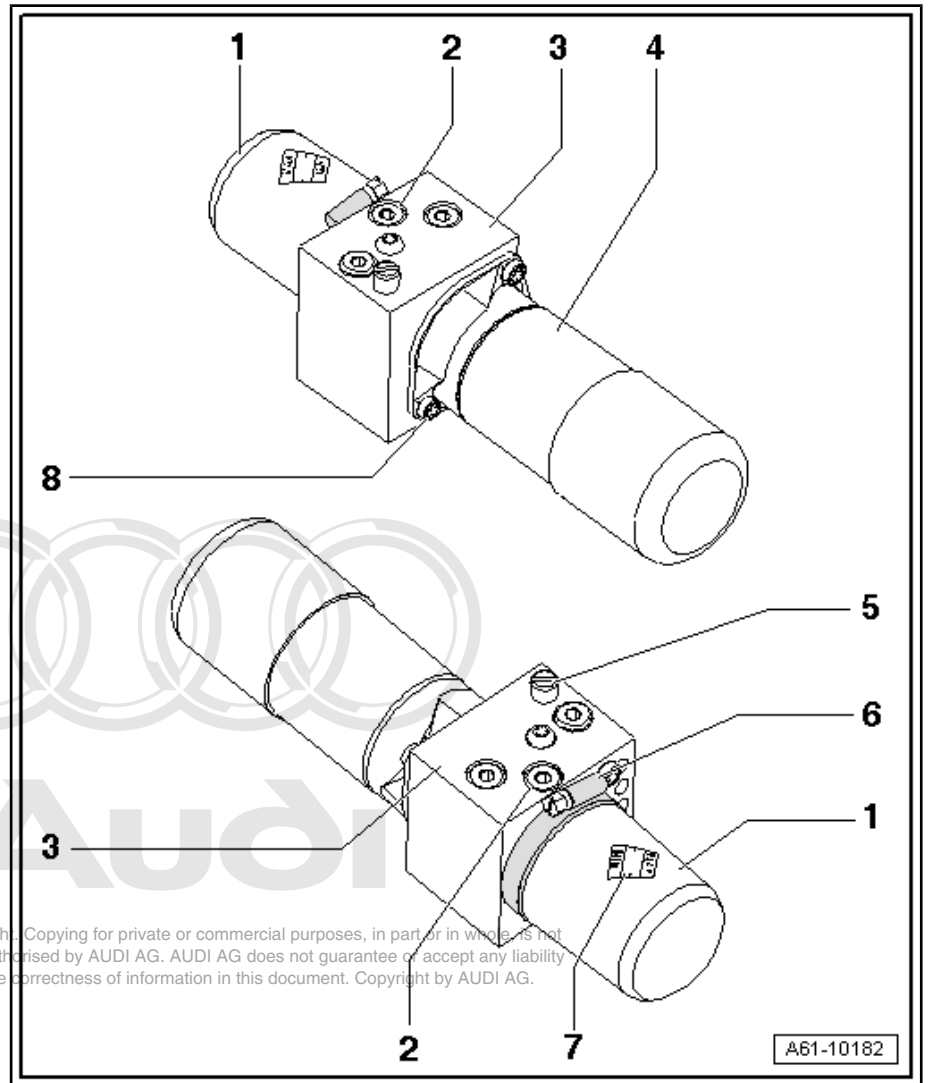


Caution

- ◆ *When checking the fluid level, the convertible roof must be retracted in the convertible roof compartment and the pump must be in installation position.*
- ◆ *Before topping up the fluid, the pump must be removed from the side panel and set down horizontally in the vehicle with the filler plug pointing upwards.*

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- The fluid level must be between the two marks -7- on reservoir (with pump installed); top up as required.
- The hydraulic pump must be removed and placed on a horizontal surface in the luggage compartment.



- Remove filler plug -2-.
- Fluid level of installed pump must be between »min« and »max« marks; top up if necessary.
- Screw in filler plug and tighten to 5 Nm.
- Install pump in vehicle.
- Operate convertible roof several times with electric switch and check fluid level once again.

2.8 Exploded view - hydraulic cylinder

1 - Hydraulic cylinder for convertible roof drive unit

2 - Clip

- ☐ Retaining clip for connection piece

3 - Hydraulic line

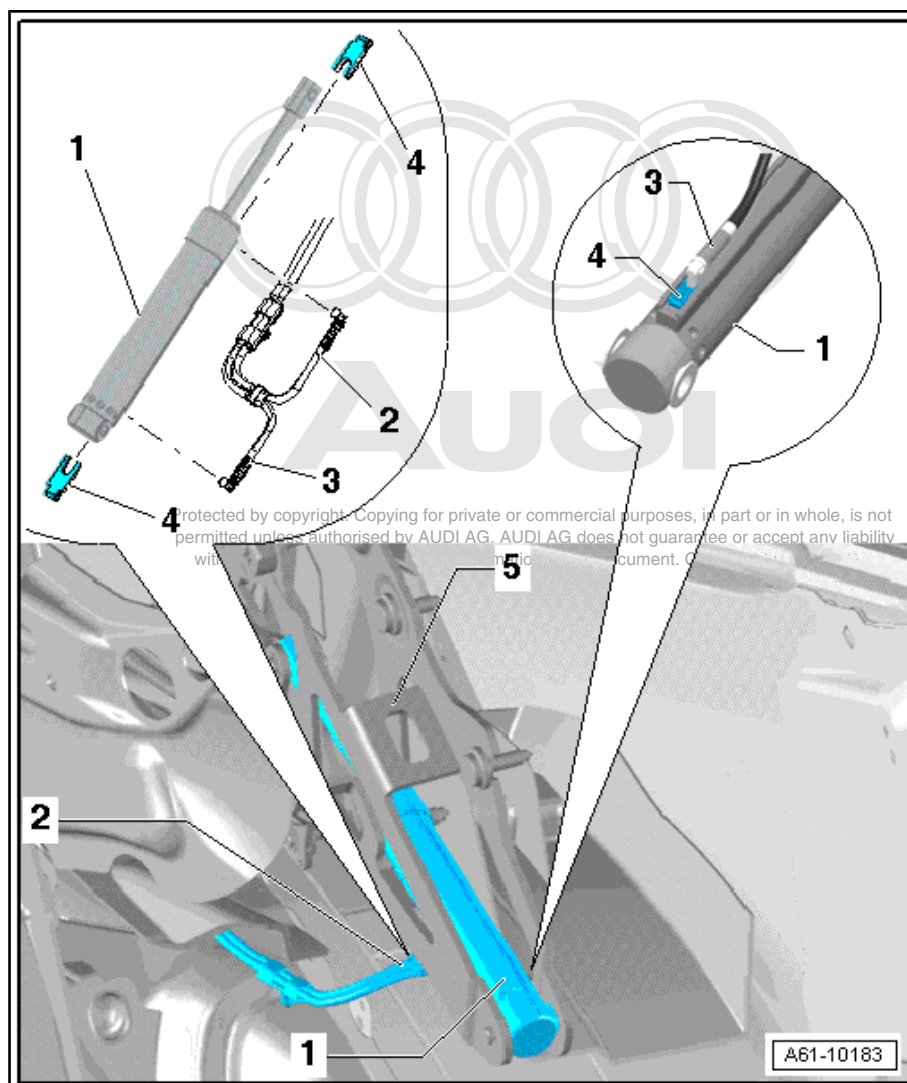
- ☐ Supply

4 - Clip

- ☐ Retaining clip for connection piece

5 - Hydraulic line

- ☐ Return



Removing and installing hydraulic cylinder

- Convertible roof removed

1 - Hydraulic cylinder

- ☐ Detach retaining clips -3- and -6- from pins -4- and -5- at piston rod and cylinder to the side.
- ☐ Pull pin sideways out of main mounting and take out cylinder
- ☐ Disconnect supply and return lines from cylinder
- ☐ After installing, check fluid level at hydraulic pump and top up as required

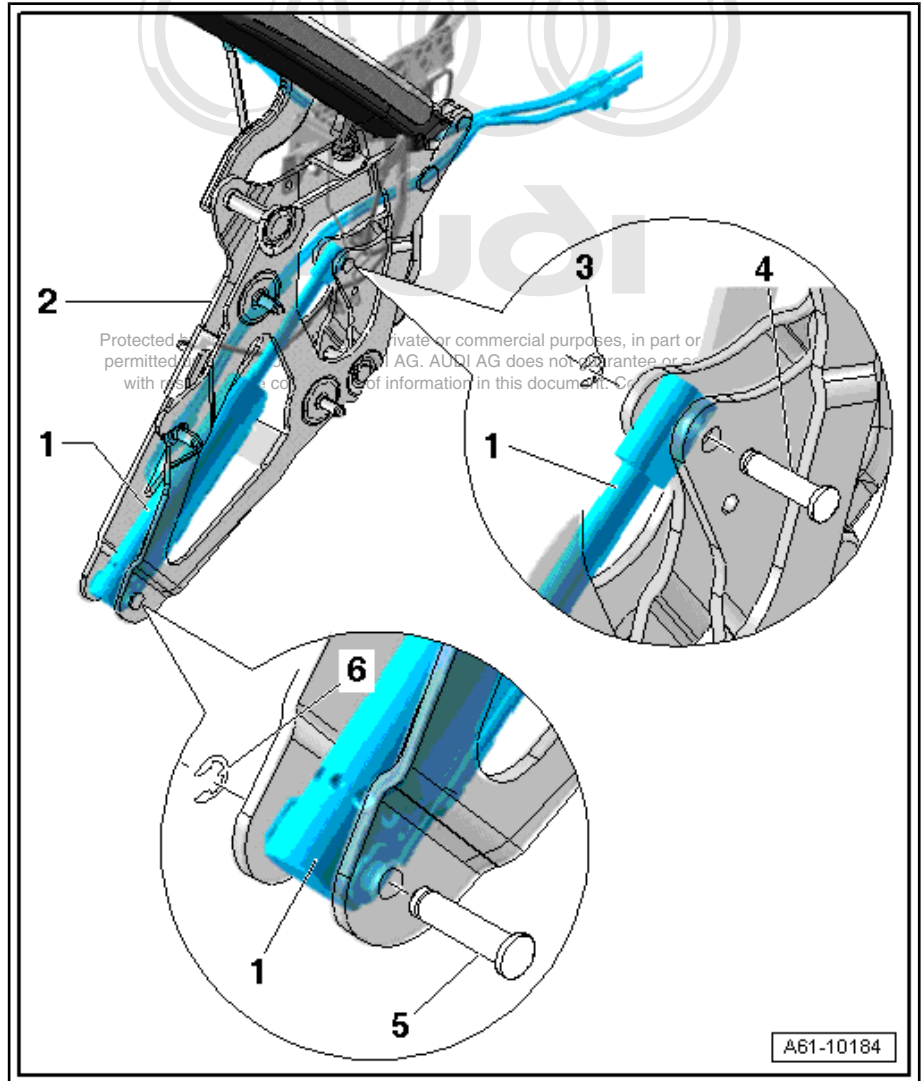
2 - Main mounting for convertible roof

3 - Retaining clip

- ☐ Slide sideways out of groove on retaining pin

4 - Retaining pin

- ☐ After installing secure with retaining clip.



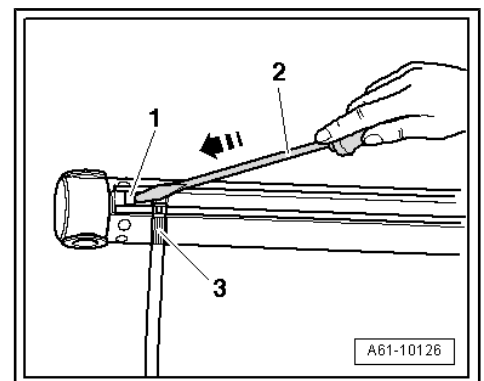
Disconnecting hydraulic line from cylinder



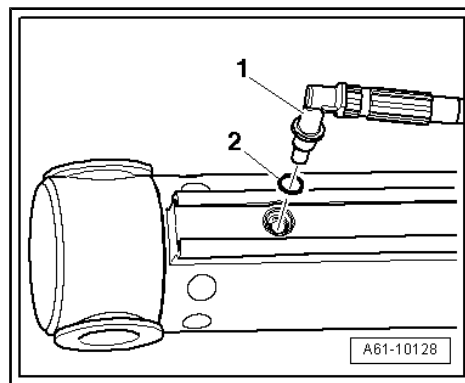
Caution

Always renew seals.

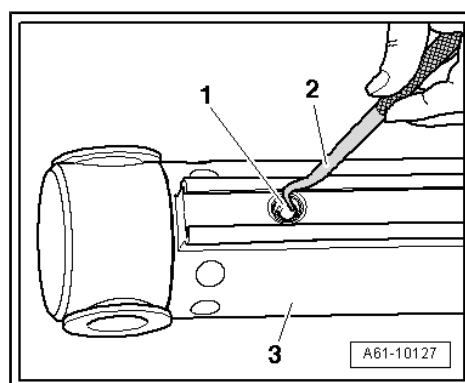
- Push locking spring -1- sideways off cylinder by applying a screwdriver or similar under connecting piece -3-.



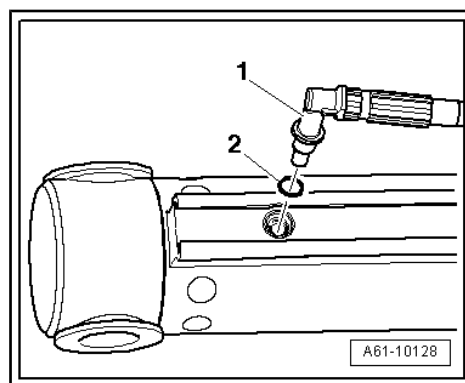
- Pull connection piece -1- out of cylinder together with seal -2-.



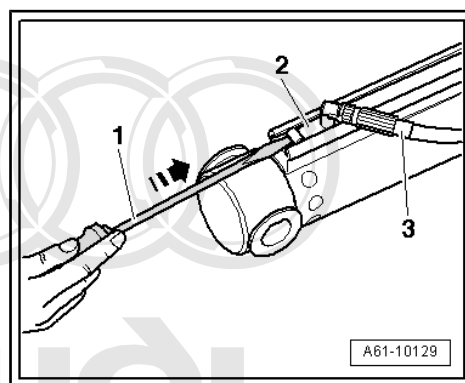
- If necessary, pry out seal -1- using a suitable small hook -2-, taking care not to damage cylinder -3-.



- Push new seal -2- onto connection piece -1-.
- Fit connection piece -3- vertically into cylinder (there should be no noticeable resistance).



- Do not use any force when inserting the connection piece; this can damage the seal and cause leaks.
- Lock locking spring -2- in direction indicated by -arrow-.
- After completing repair, check fluid level and top up as required.



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63 – Bumpers

1 Bumper (front)

1.1 Removing and installing bumper (front)



Note

Bumper covers with parking aid senders which have not been supplied with brackets must be painted before the holes are drilled and the appropriate brackets are fitted ➔ [page 119](#).

1 - Bolt

- ☐ 8.5 Nm
- ☐ When installing, observe tightening sequence: start on the inside and work outwards.

2 - Bumper

- ☐ Bumper cover removed
- ☐ To remove, unscrew bolts -3- and detach bumper forwards, pulling it out of impact dampers.

3 - Bolt with washer

- ☐ 23 Nm

4 - Hexagon bolt

- ☐ 4 Nm
- ☐ Press wheel housing liner to the side in area of bolt.

5 - Fastener

- ☐ Insert in wing panel

6 - Guide

- ☐ To remove, unscrew panel bolts -7-.
- ☐ Installing ➔ [page 117](#).

7 - Panel bolt

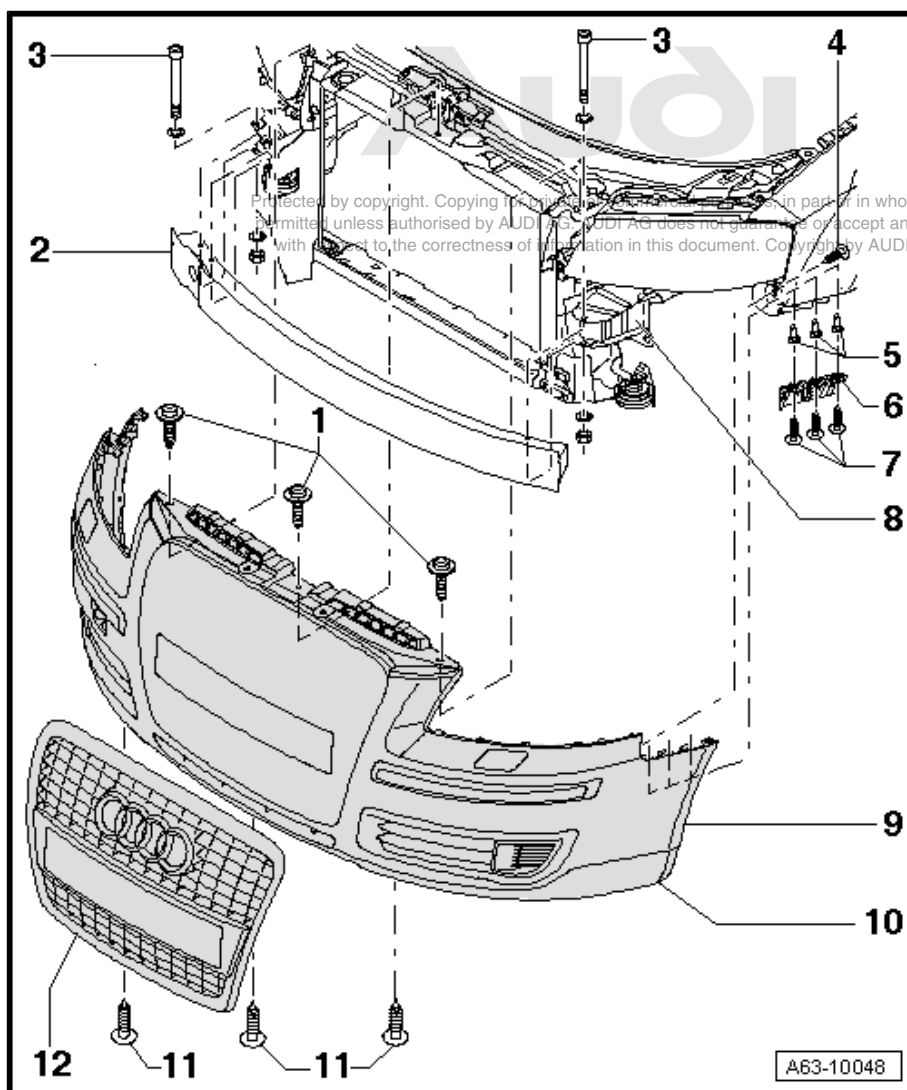
- ☐ 1.5 Nm

8 - Impact damper

- ☐ Removing ➔ [page 116](#)

9 - Bumper cover

- ☐ To remove, unscrew bolts -1-.
- ☐ Slacken off hexagon bolt -4- under wheel housing liner.
- ☐ Unscrew bolts from wheel housing liner in this area and push wheel housing liner to one side.
- ☐ Unscrew Torx bolts -T25- on wheel housing liner (3x each side) on left and right.
- ☐ Unscrew panel bolts -10- on underside.
- ☐ Unscrew bolts securing noise insulation.



- ❑ First unclip bumper cover at top from guide -6- and wing panel, then lever over wheel housing liner and detach forwards from lock carrier.

10 - Spoiler

- ❑ Cannot be renewed separately, is supplied together with bumper, not available as replacement part.

11 - Panel bolt

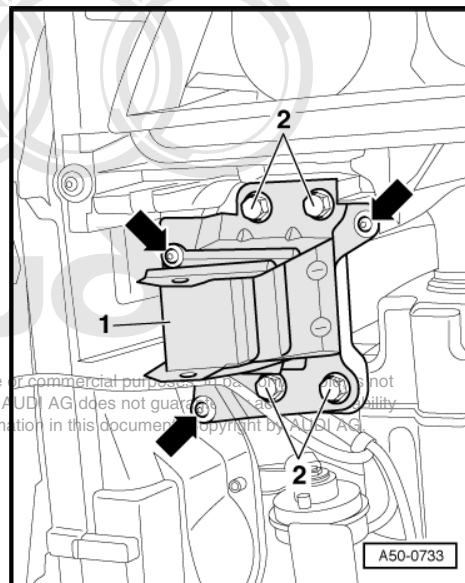
- ❑ 1.5 Nm

12 - Radiator grille

- ❑ Removing ⇒ [page 118](#)

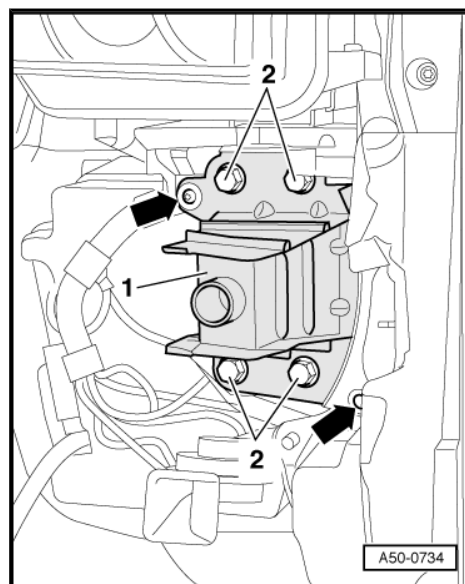
Remove impact damper (left-side)

- Bumper cover and bumper removed.
- Unscrew hexagon bolts -2- (securing lock carrier to longitudinal member).
- Tightening torque: 23 Nm
- Unscrew Torx bolts -arrows- and remove impact damper -1- from lock carrier.



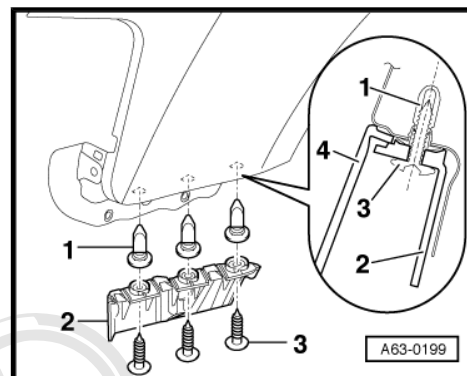
Remove impact damper (right-side)

- Bumper cover and bumper removed.
- Unscrew hexagon bolts -2- (securing lock carrier to longitudinal member).
- Tightening torque: 23 Nm
- Unscrew Torx bolts -arrows- and remove impact damper -1- from lock carrier.



Guide for bumper cover

- Press fastener into wing from below.
- When installing, fasten guide -2- with bolts, working from front to rear.
- Tighten bolts -3- to 1.5 Nm.



1.2 Securing points for bumper cover

1 - Bumper cover

2 - Torx bolts

- ☐ Bolt connection for lock carrier (top).
- ☐ 8.5 Nm

3 - Wing

4 - Hexagon bolt

- ☐ Bolt connection wing panel.
- ☐ 4 Nm
- ☐ To remove, press wheel housing liner to the side in area of bolt.

5 - Panel bolt

- ☐ Bolt connection on lock carrier (bottom).
- ☐ 1.5 Nm

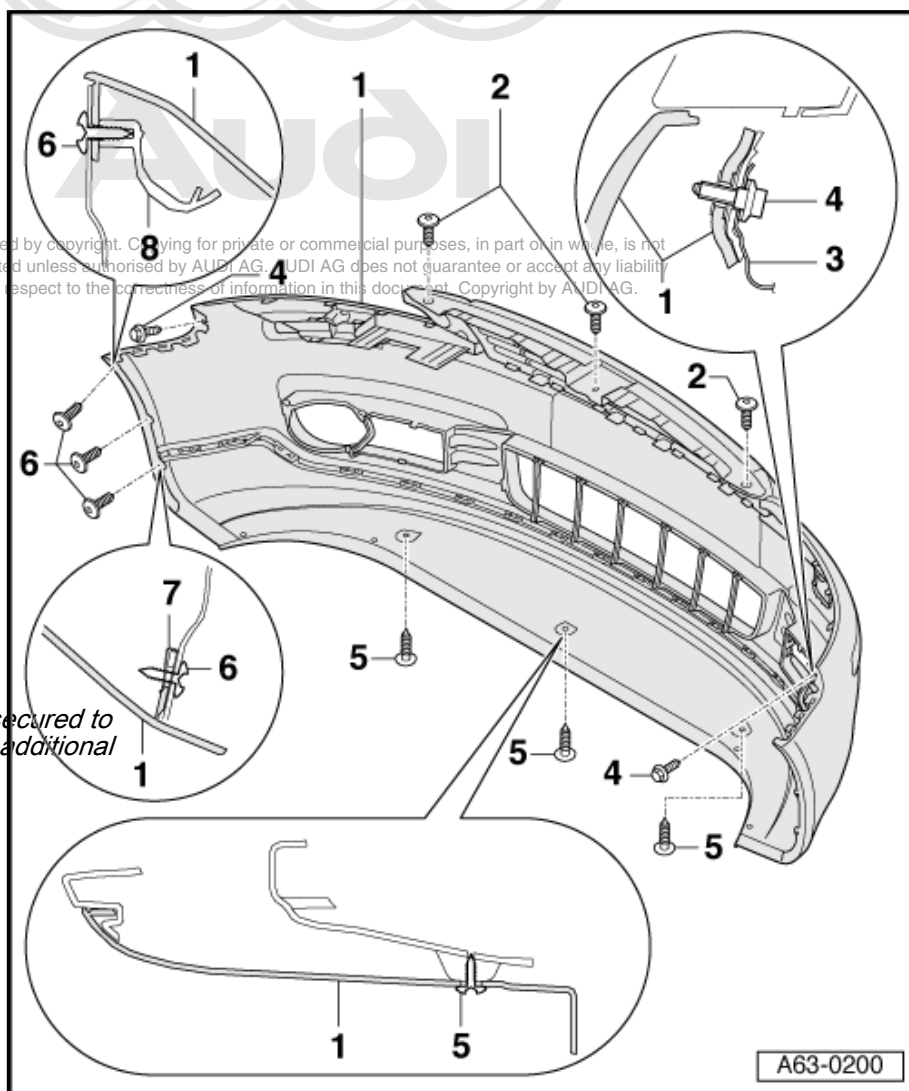


Note

Bumper cover is also secured to noise insulation with 3 additional panel bolts.

6 - Panel bolt

- ☐ Bolt connection wheel housing liner
- ☐ 1.5 Nm



1.3 Removing and installing trim grille

1 - Audi emblem (front)

- To remove, unclip from reverse side.

2 - Frame

- ☐ Clipped into radiator grille
- To remove, unclip retaining hooks one-by-one from reverse side.

3 - Radiator grille

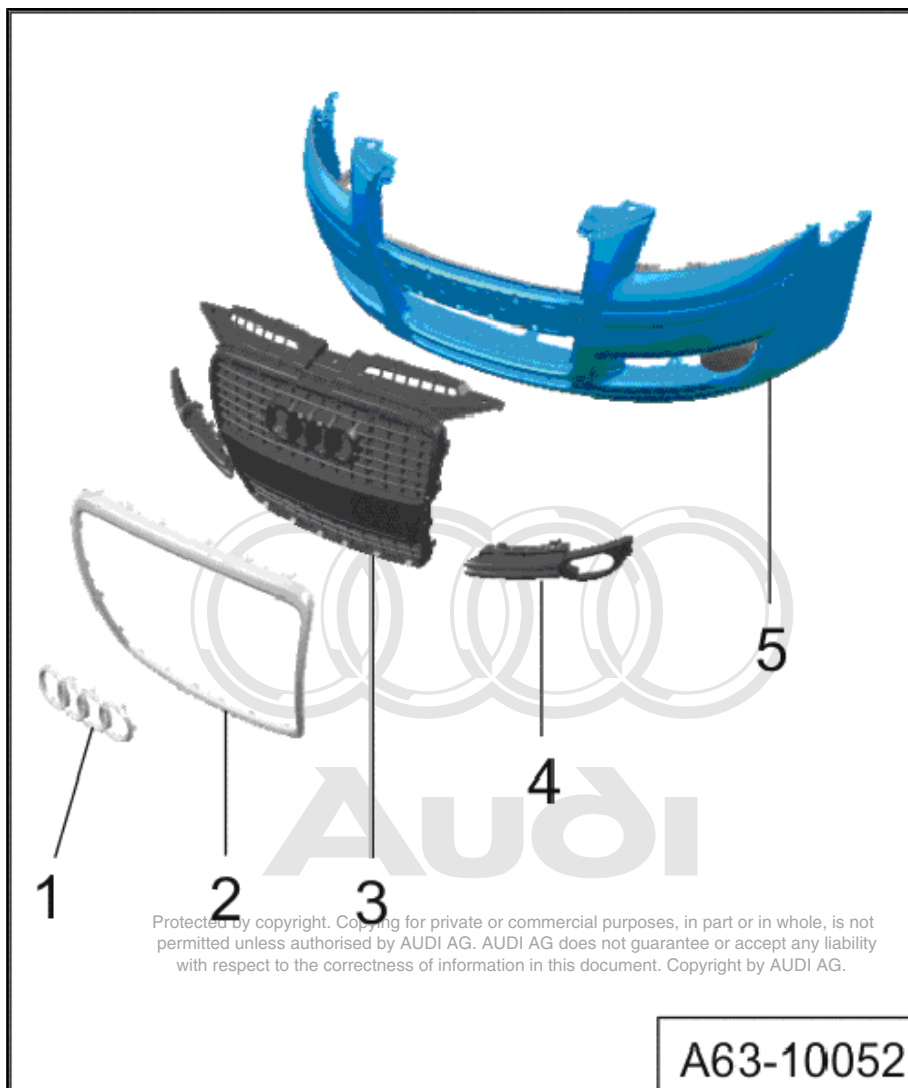
- Bumper cover removed
- ☐ Removing ⇒ [page 118](#)

4 - Air intake grille

- ☐ To remove, release retaining hooks and pull forwards out of bumper cover.

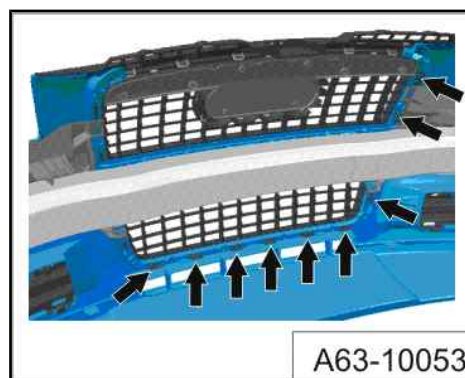
5 - Bumper cover

- Bumper cover removed



Removing radiator grille

- Bumper cover removed
- Release retaining hooks -arrows- fully on bumper cover.
- Pull radiator grille forwards out of bumper cover.



1.4 Installing brackets for parking aid



Note

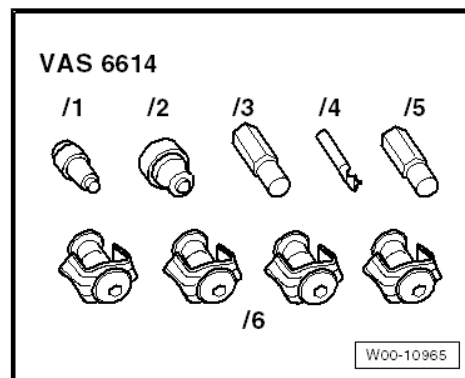
If a vehicle has been delivered without the brackets for the parking aid fitted on the bumpers, the holes must first be punched and the brackets must be bonded on.

1.4.1 Tools

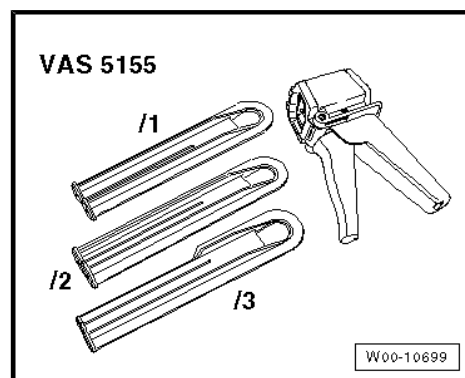
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Special tools and workshop equipment required

- ◆ Attachment device for PDC holder - VAS 6614-



- ◆ Hand cartridge gun - VAS 5155-



1.4.2 Materials

- ◆ 2-component plastic adhesive - D 180 KU2 A1- ¹⁾ 1
- ◆ Primer for plastic components - D 822 150 A1- ¹⁾ 1
- ◆ Cleaning solution - D 009 401 04- ¹⁾ 1
- ◆ Primer applicator

1) Follow the manufacturer's instructions supplied with the product.

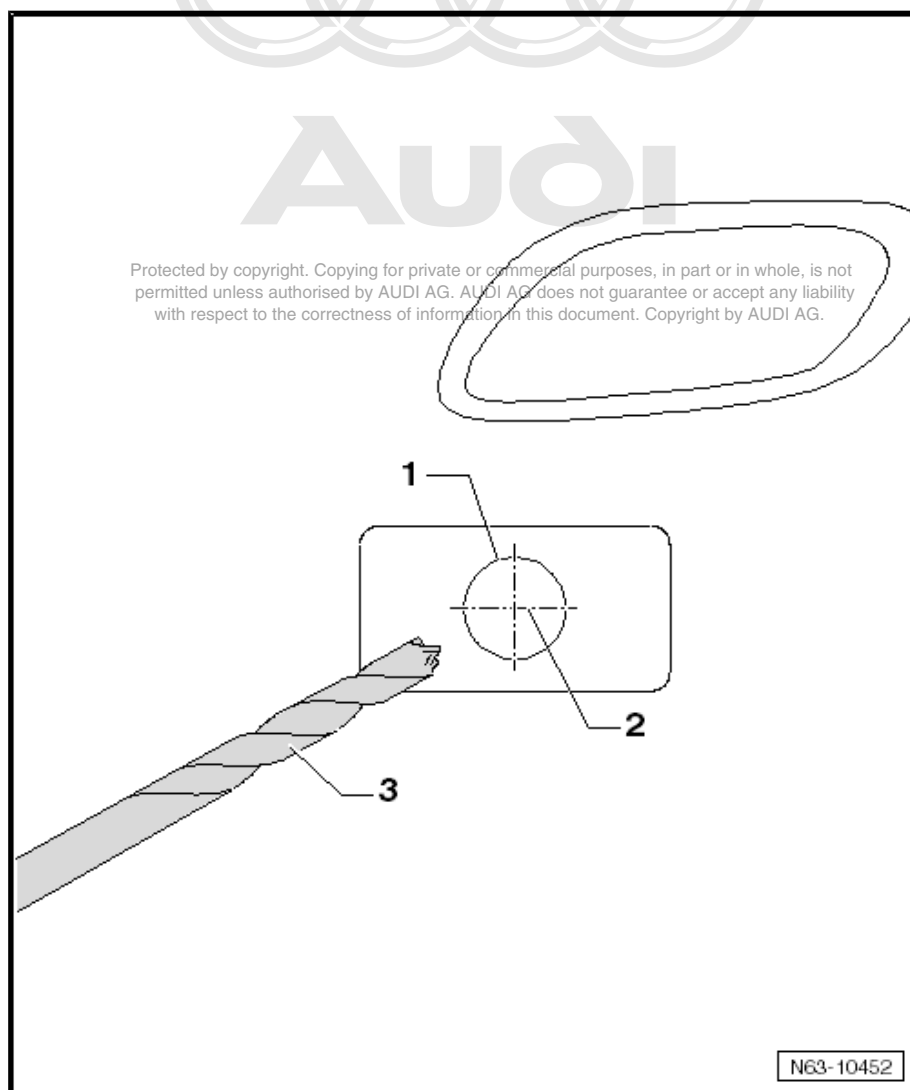
2) Note minimum drying time ➔ [page 123](#) .

1.4.3 Installing brackets



Note

The brackets are only installed after the bumper cover has been painted.

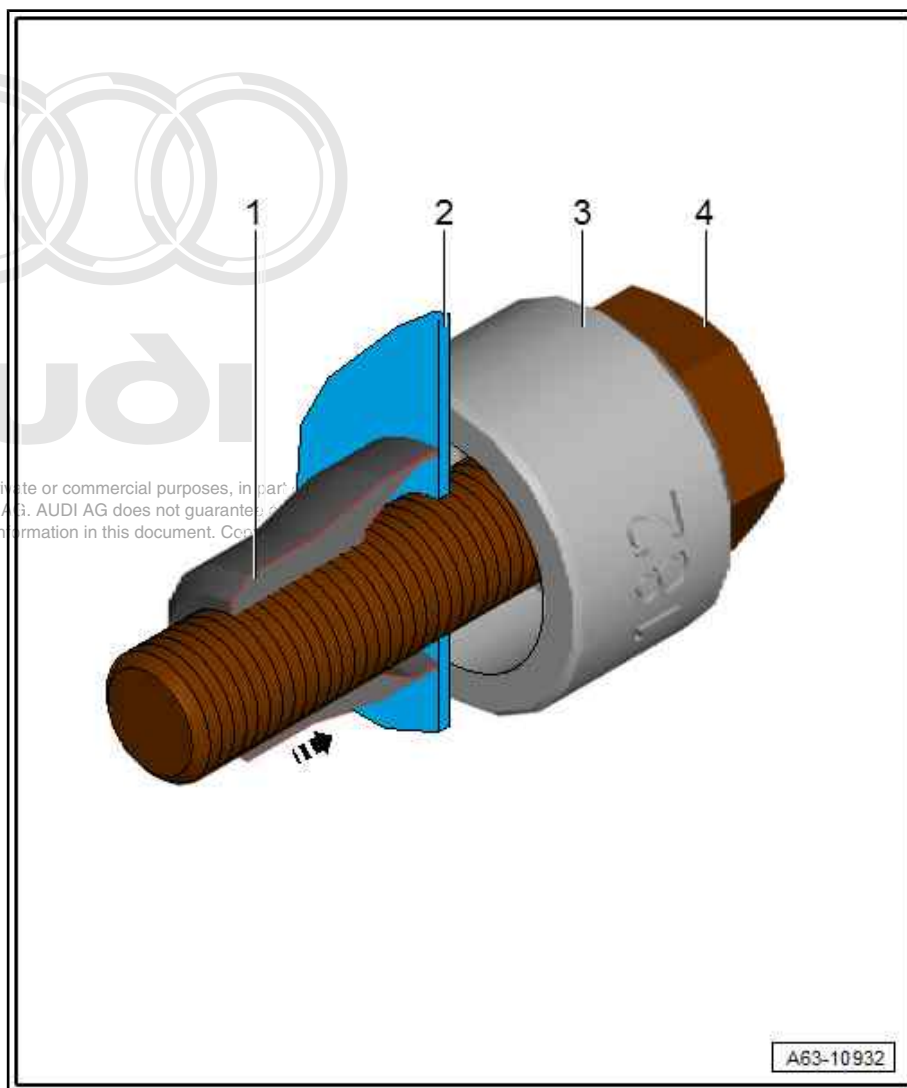


The markings for the bracket -1- are located on the inside of the bumper cover.

- If they are missing, determine centre point -2-.
- Pre-drill holes using 10.2 mm drill bit -3- supplied with tool kit.

Making holes with punch

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- Unscrew punch bit -1- of attachment device for PDC holder - VAS 6614/1- from bolt -4-.
- Apply punch with screw, washer and thrust bearing -3- from inside of bumper cover -2-.
- Screw on punch bit -1- of attachment device for PDC holder - VAS 6614/1- from outside until it is almost touching bumper cover -2-.
- Then press punch bit -1- against bumper cover -2-.
- Screw bolt -4- into punch via hexagon flats.

 Note

When screwing in the bolt -4-, the punch bit -1- must not be allowed to turn while in contact with the painted surface of the bumper cover.

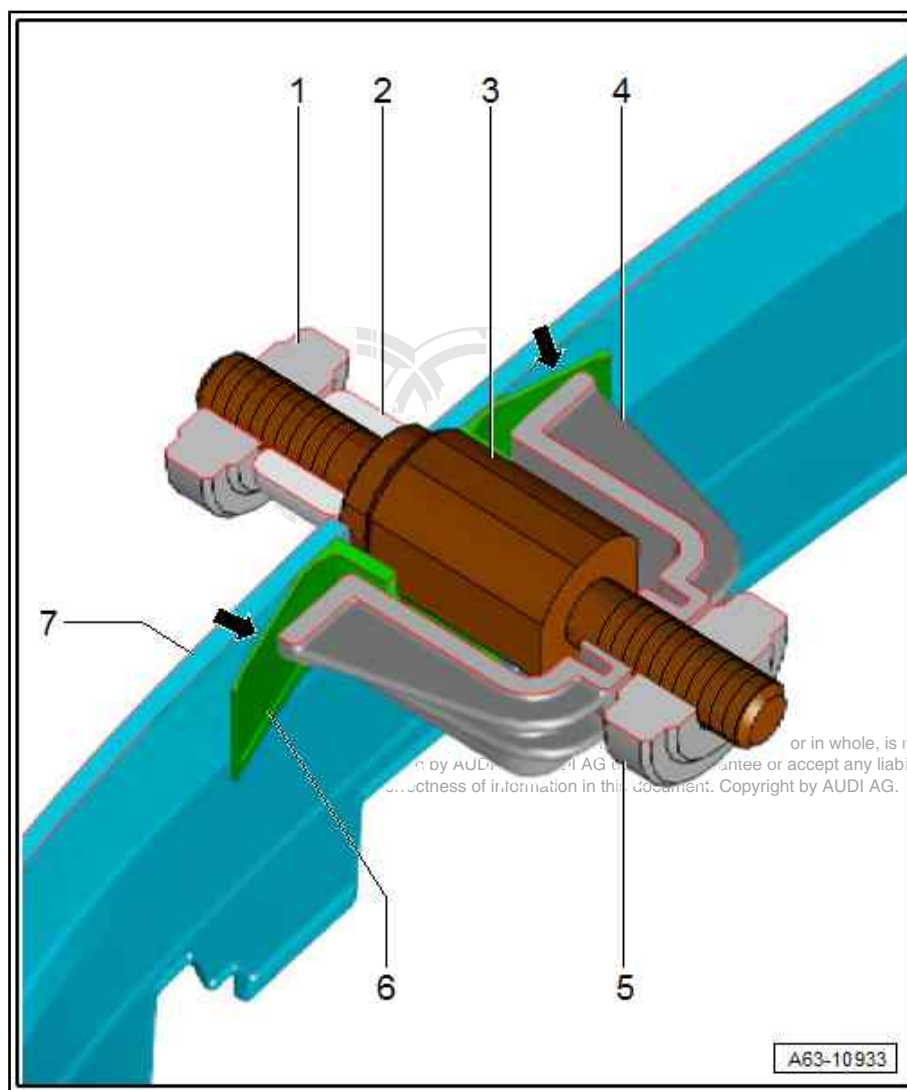
- When bolt -4- is turned, punch bit -1- is drawn through material of bumper cover -2- in direction of -arrow-.
- Remove punch and apply again to punch out remaining holes.

Inserting brackets in bumper cover



Note

The brackets must be attached in the same position in the new bumper cover as they were in the old one.



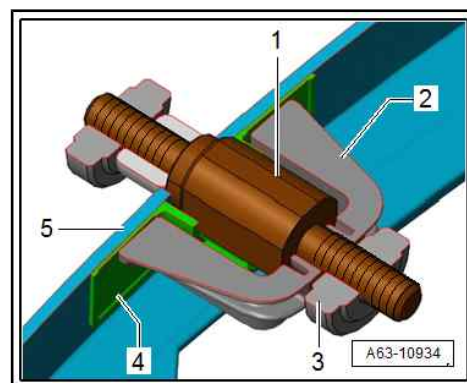
- Sand inside of bumper cover and bracket at bonding surfaces, and clean thoroughly.
- Clean bumper cover and brackets thoroughly with plastic cleaner - D 195 850 A1- and allow to flash off for 5 minutes.
- Apply a thin coating of primer for plastic components - D 822 150 A1- to bumper cover and bracket, and allow to flash off for 10 minutes.
- Slide bracket -6- onto centring mandrel -3- and push mandrel through bumper cover.
- Slide on counterhold tool -2- from outside and tighten knurled nut slightly.
- Align bracket -6- in correct position and according to markings on bumper cover.

- Slide on clamp -4- and screw in knurled nut -5- but do not tighten yet.
- Prepare all brackets up to this step prior to bonding.



Note

- ◆ *The first few centimetres of adhesive from the mixing nozzle may not be properly mixed and must therefore be discarded.*
- ◆ *The adhesive must not spread from the bracket as far as the hole for the sensor.*
- Bend tabs open slightly and apply 2-component plastic adhesive - D 180 KU2 A1- to surfaces marked by arrows between bracket and bumper cover.
- Tighten knurled nut -3- at centring pin -1-.
- This results in clamp -2- pushing tabs on side of bracket -4- flat onto bumper cover -5-.
- Perform this step for all brackets.
- After minimum drying time for 2-component plastic adhesive - D 180 KU2 A1- , remove all centring mandrels.



1.4.4 Minimum drying times



Caution

- ***A minimum drying time of 30 minutes must be observed before performing further work on the bumper cover or brackets.***
- ***The bumper cover must be left at the work station during this period and must not be moved.***

2 Bumper (rear)

2.1 Exploded view - bumper cover (rear)

Bumper cover (rear), parking aid senders



Note

If a vehicle has been delivered without the brackets for the parking aid fitted on the bumpers, the holes must first be punched and the brackets must be bonded on [⇒ page 131](#).

1 - Bolt

- 2 Nm

2 - Bumper cover (bottom section)

- Removing and installing
[⇒ page 129](#)

3 - Bolt

- 2 Nm

4 - Rear left parking aid sender - G203-

- Removing and installing
[⇒ Rep. gr. 94](#)

5 - Rear centre left parking aid sender - G204-

- Removing and installing
[⇒ Rep. gr. 94](#)

6 - Bumper cover trim

- Removing and installing
[⇒ page 129](#)

7 - Rear centre right parking aid sender - G205-

- Removing and installing
[⇒ Rep. gr. 94](#)

8 - Rear right parking aid sender - G206-

- Removing and installing
[⇒ Rep. gr. 94](#)

9 - Nut

- 5 Nm

10 - Bumper cover

- Removing and installing
[⇒ page 125](#)

11 - Cover

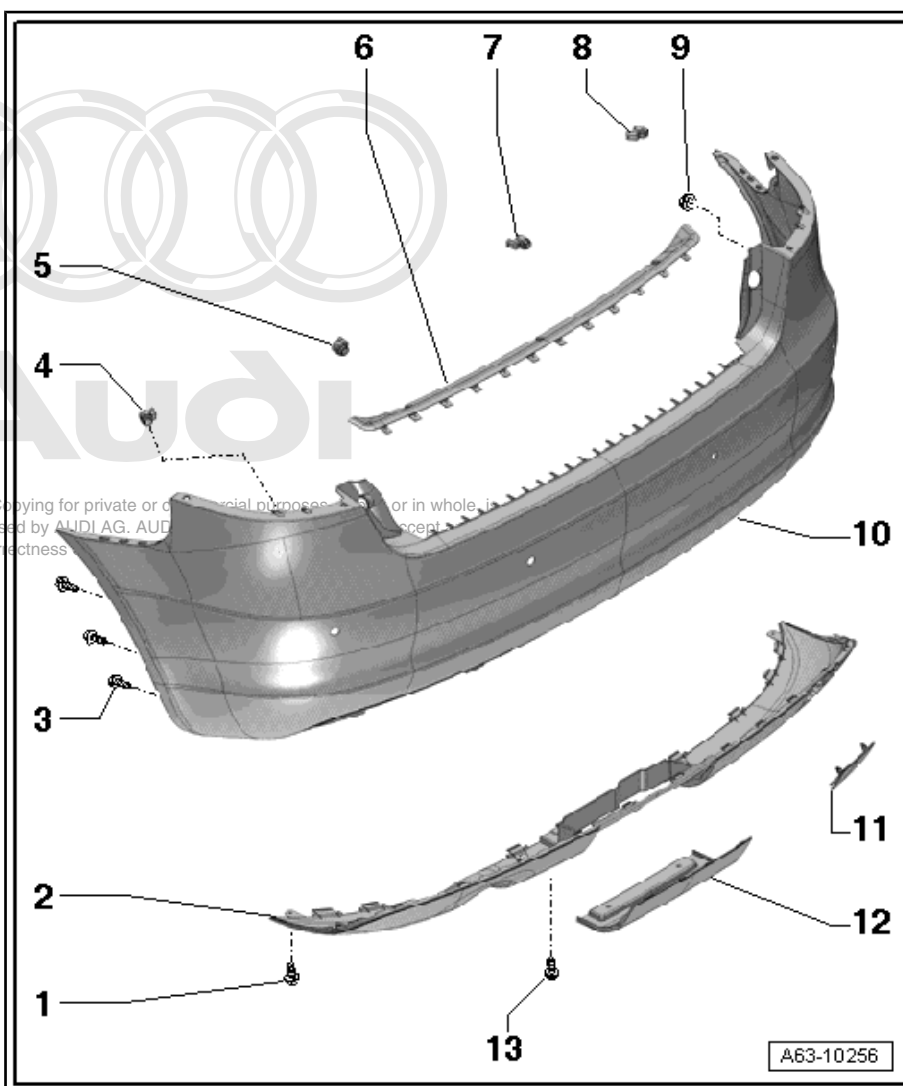
- For towing hook

12 - Cover

- For towing bracket

13 - Bolt

- 2 Nm



Impact bars (rear), guide (side), guide (rear)

1 - Bolt

- ☐ 75 Nm

2 - Impact bar

- ☐ For vehicles with towing bracket
- ☐ Removing and installing
⇒ [page 130](#)

3 - Bumper cover mounting

- ☐ Removing and installing
⇒ [page 130](#)

4 - Bolt

- ☐ 23 Nm

5 - Radio controlled clock receiver - J489-

- ☐ Removing and installing
⇒ Rep. gr. 90

6 - Bolt

- ☐ 1.5 Nm

7 - Bolt

- ☐ 1.7 Nm

8 - Nut

- ☐ 2.5 Nm

9 - Guide (side)

- ☐ Removing and installing
⇒ [page 127](#)

10 - Bolt

- ☐ 2.3 Nm

11 - Guide (rear)

- ☐ Removing and installing
⇒ [page 127](#)

12 - Bolt

- ☐ 2.3 Nm

13 - Bolt

- ☐ 23 Nm

14 - Impact bar

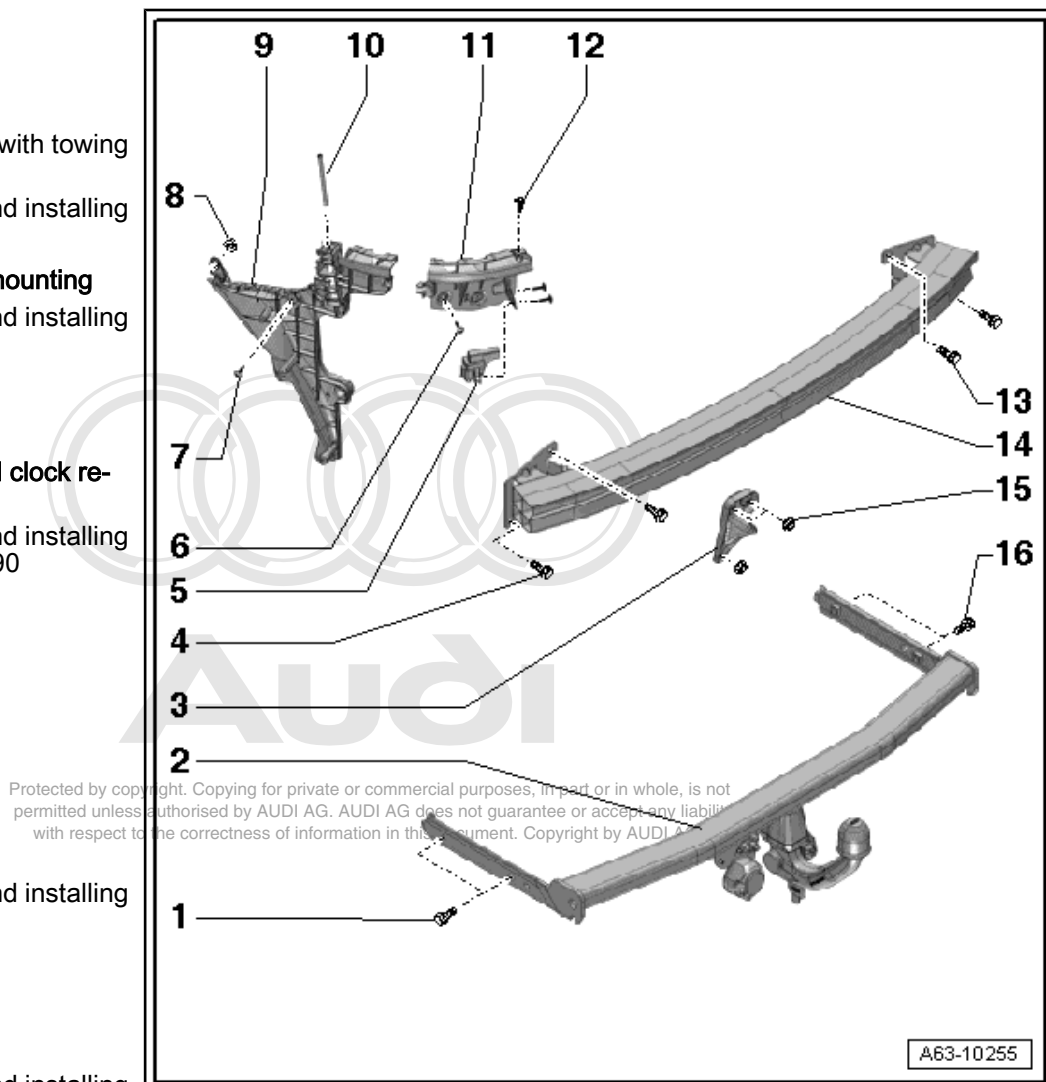
- ☐ For vehicles without towing bracket
- ☐ Removing and installing ⇒ [page 130](#)

15 - Nut

- ☐ 2.0 Nm

16 - Bolt

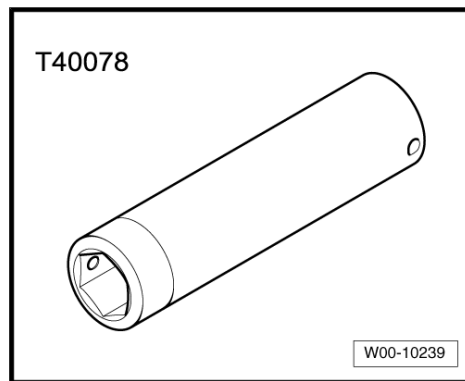
- ☐ 75 Nm



2.2 Removing and installing bumper cover (rear)

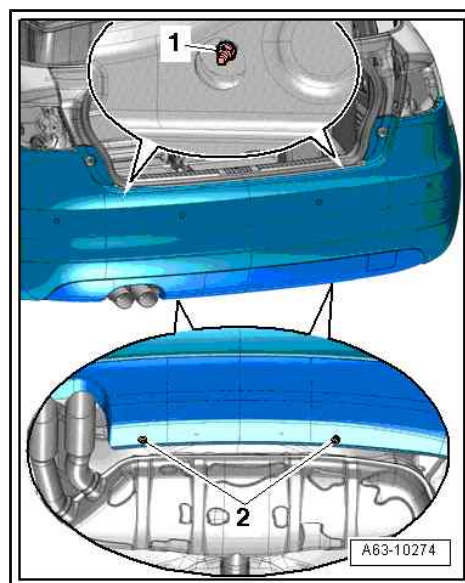
Special tools and workshop equipment required

◆ Socket - T40078-



Removing

- Remove outer tail lights ⇒ Rep. gr. 94 .
- Remove rear cross panel trim ⇒ Rep. gr. 70 .
- Unfasten luggage compartment side trim in area of nut -1- ⇒ Rep. gr. 70 .
- Unscrew nuts -1- (left and right) with socket - T40078- .
- Remove bolts -2-.



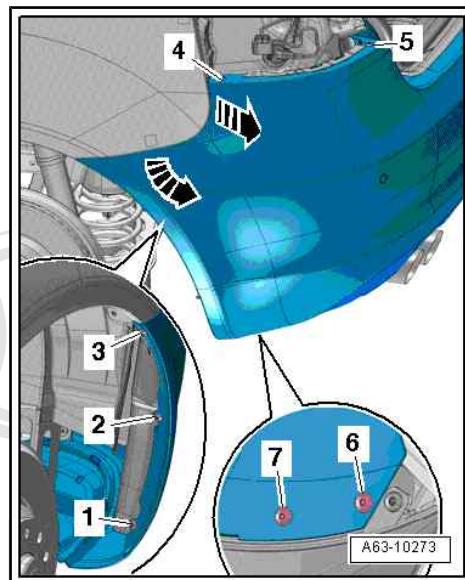
- Remove bolts -6- and -7- at floor trim cover (rear).
- Remove bolts -4- and -5- from guide.
- Unscrew bolts -1, 2, 3- from side sections of bumper cover.
- Disengage side sections at side panel outwards -arrows-.
- If fitted, unplug electrical connector for parking aid sender ⇒ Rep. gr. 94 .
- Detach bumper cover.

Installing

- Tightening torques ⇒ [page 124](#) and ⇒ [page 125](#) .

Install in reverse order of removal; note the following:

- Install luggage compartment side trim ⇒ Rep. gr. 70 .
- Install rear cross panel trim ⇒ Rep. gr. 70 .
- Install outer tail lights ⇒ Rep. gr. 94 .



2.3 Gap widths at bumper cover (rear)

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A - Bumper cover trim to rear lid

- Gap width -a- = 4.5 ± 0.5 mm

-1- Bumper cover

-2- Rear lid

B - Bumper cover (rear) to rear lid

- Gap width -b- = 3.5 ± 0.5 mm

-1- Bumper cover

-2- Rear lid

C - Bumper cover/side panel (rear) to tail light

- Gap width -c- = 1.0 mm

-3- Outer tail light

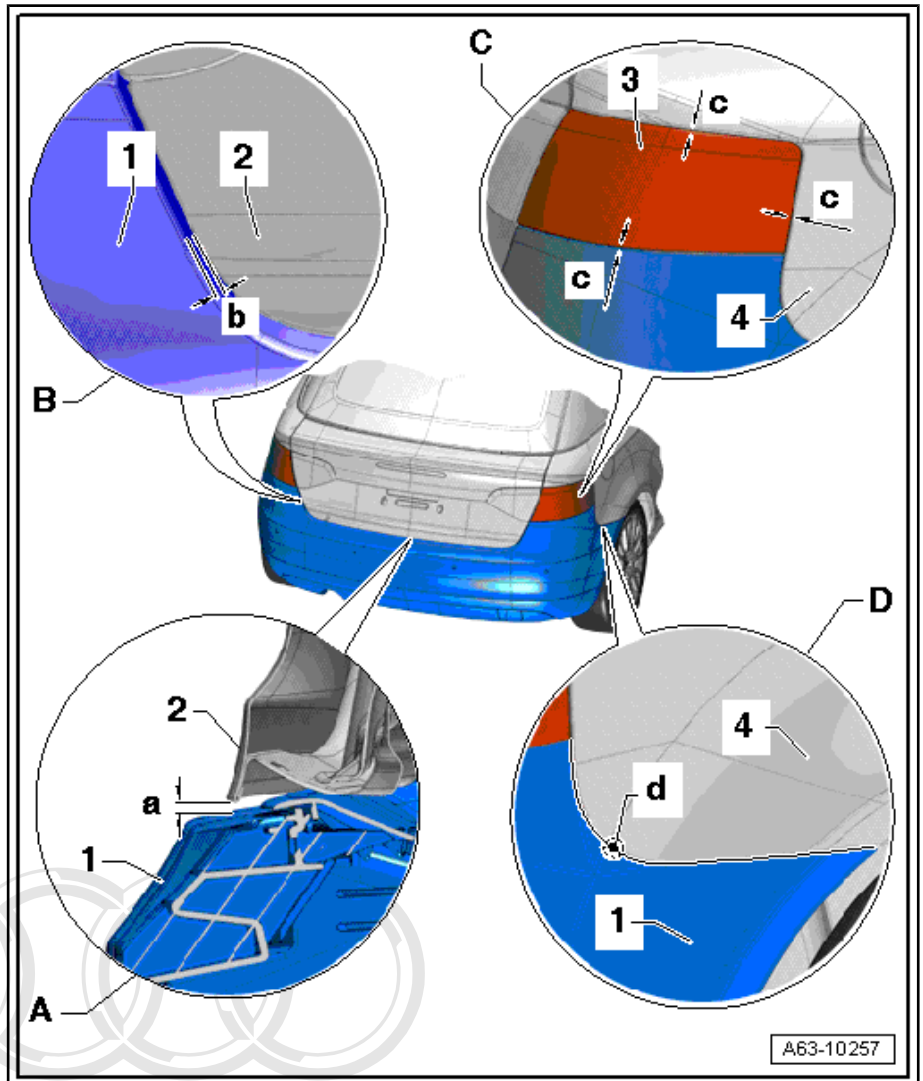
-4- Side panel (rear)

D - Bumper cover to side panel (rear)

- Gap width -d- = 0 mm

-1- Bumper cover

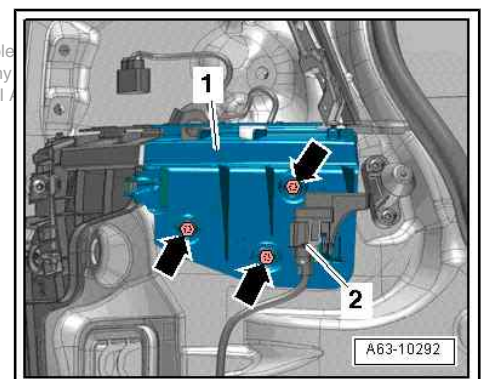
-4- Side panel (rear)



2.4 Removing and installing guides (side/rear)

Removing

- Remove bumper cover (rear) -> [page 125](#)
- If fitted, unplug electrical connector -2- at radio controlled clock receiver - J489- .
- Remove bolts -arrows-.
- Remove guide (rear) -1-.



- Remove wheel housing liner (rear) ⇒ [page 195](#) .
- Unscrew bolts -arrows- and nut -1-.
- Detach guide (side) -2-.

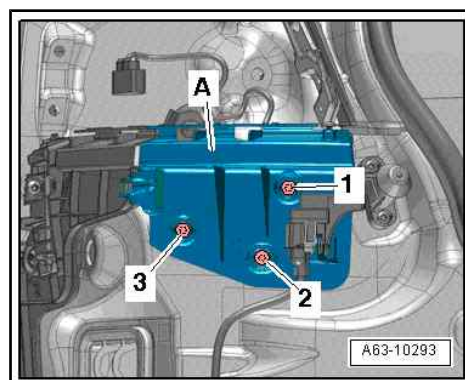
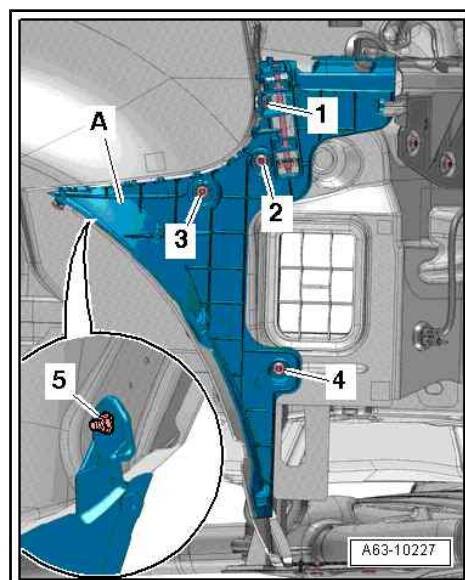
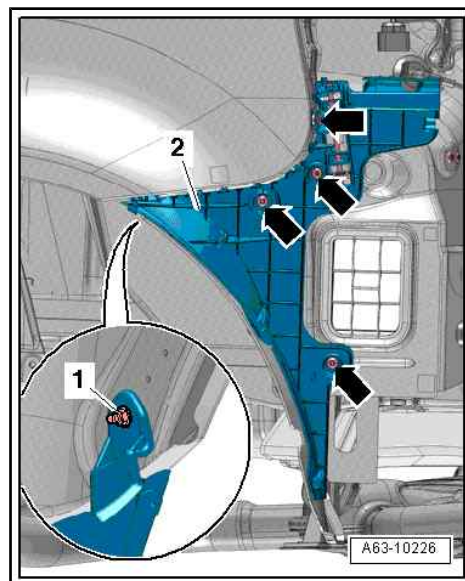


Installing

- Tightening torque ⇒ [page 125](#) 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 damage or injury caused by the use of this information.

Install in reverse order of removal; note the following:

- Apply guide (side) -A- to body.
 - Tighten bolts and nut in sequence -1 ... 5-.
-
- Insert guide (rear) -A- at guide (side) and tighten bolts in the sequence -1 ... 3-.



2.5 Removing and installing bumper cover trim

Removing

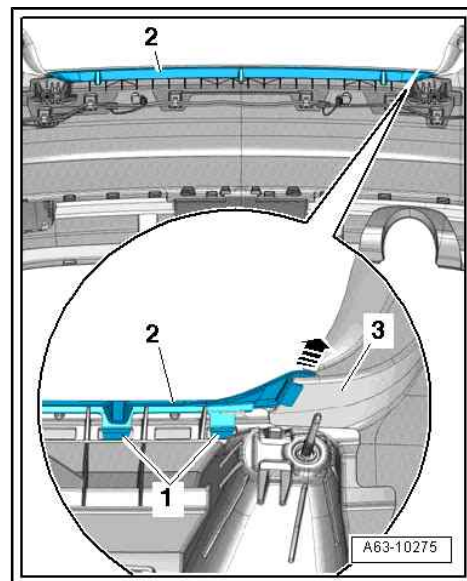
- Remove bumper cover (rear) ➤ [page 125](#) .
- Release fasteners -1- over entire length and pull bumper cover trim -2- out of bumper cover -3- -arrow-.

Installing

- Tightening torque ➤ [page 124](#)

Install in reverse order of removal; note the following:

- Press bumper cover trim into bumper cover until it engages audibly.
- Install bumper cover (rear) ➤ [page 125](#) .



2.6 Removing and installing bumper cover (bottom section)

Removing

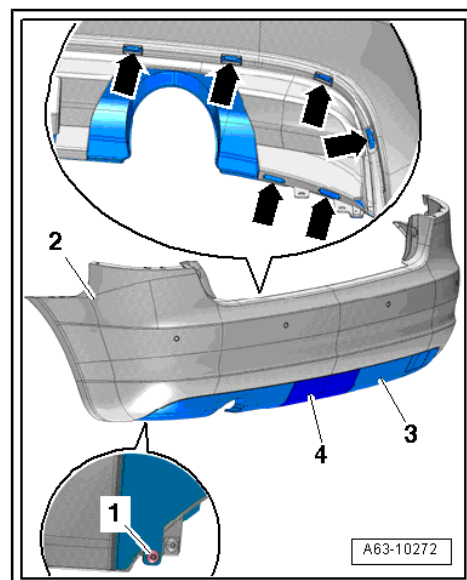
- Remove bumper cover (rear) ➤ [page 125](#) .
- Remove bolt -1-.
- If fitted, pull off cover -4- for towing bracket.
- Release fasteners -arrows- and pull bottom section -3- of bumper cover off bumper cover -2-.

Installing

- Tightening torque ➤ [page 124](#)

Install in reverse order of removal; note the following:

- Bottom section of bumper cover must be clipped in and must engage audibly in bumper cover.
- Install bumper cover (rear) ➤ [page 125](#) .



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2.7 Removing and installing bumper cover mounting

Removing

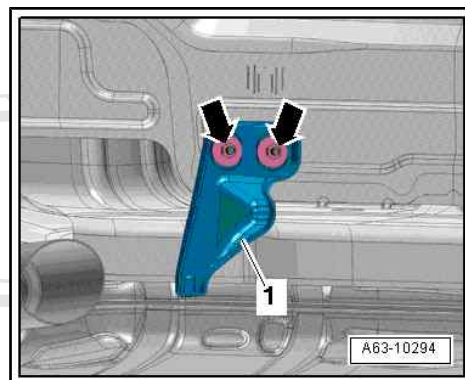
- Remove bumper cover (rear) ⇒ [page 125](#) .
- Unscrew nuts -arrows-.
- Remove bumper cover mounting -1-.

Installing

- Tightening torque ⇒ [page 125](#)

Install in reverse order of removal; note the following:

- Install bumper cover (rear) ⇒ [page 125](#) .



2.8 Removing and installing impact bar (vehicles without towing bracket)

Removing

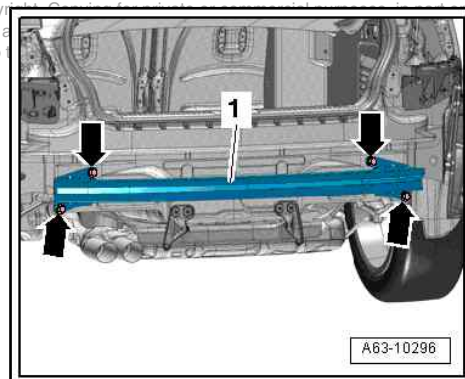
- Remove bumper cover (rear) ⇒ [page 125](#) .
- Remove bolts -arrows-.
- Detach impact bar -1-.

Installing

- Tightening torque ⇒ [page 125](#)

Install in reverse order of removal; note the following:

- Install bumper cover (rear) ⇒ [page 125](#) .



2.9 Removing and installing impact bar (vehicles with towing bracket)

Removing

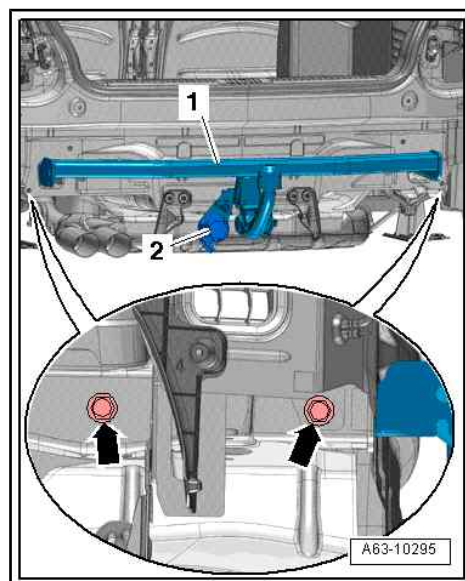
- Remove bumper cover (rear) ⇒ [page 125](#) .
- Remove socket -2- for towing bracket ⇒ Electrical system; General information; Rep. gr. 96 .
- Remove bolts -arrows-.
- Detach impact bar -1-.

Installing

- Tightening torque ⇒ [page 125](#)

Install in reverse order of removal; note the following:

- Install socket for towing bracket ⇒ Electrical system; General information; Rep. gr. 96 .
- Install bumper cover (rear) ⇒ [page 125](#) .



2.10 Installing brackets for parking aid



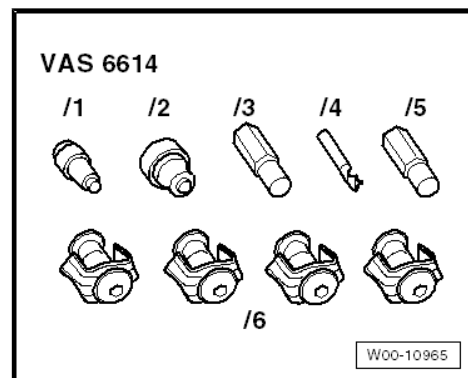
Note

If a vehicle has been delivered without the brackets for the parking aid fitted on the bumpers, the holes must first be punched and the brackets must be bonded on.

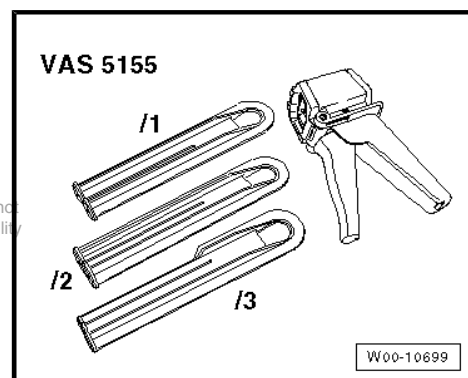
2.10.1 Tools

Special tools and workshop equipment required

- ◆ Attachment device for PDC holder - VAS 6614-



- ◆ Hand cartridge gun - VAS 5155-



2.10.2 Materials

- ◆ 2-component plastic adhesive - D 180 KU2 A1- ³⁾ 1
- ◆ Primer for plastic components - D 822 150 A1- ³⁾ 1
- ◆ Cleaning solution - D 009 401 04- ³⁾ 1
- ◆ Primer applicator

3) Follow the manufacturer's instructions supplied with the product.

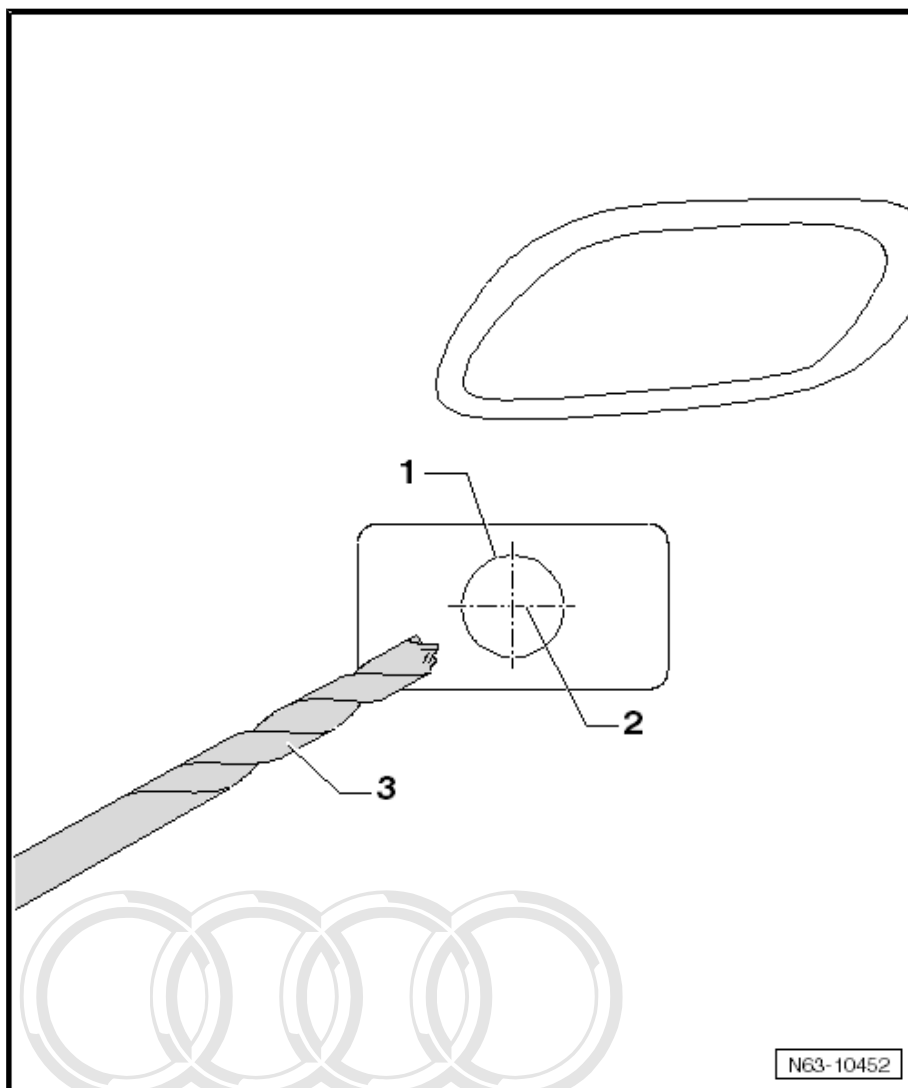
4) Note minimum drying time ➔ [page 135](#) .

2.10.3 Installing brackets



Note

The brackets are installed after the bumper cover has been painted.

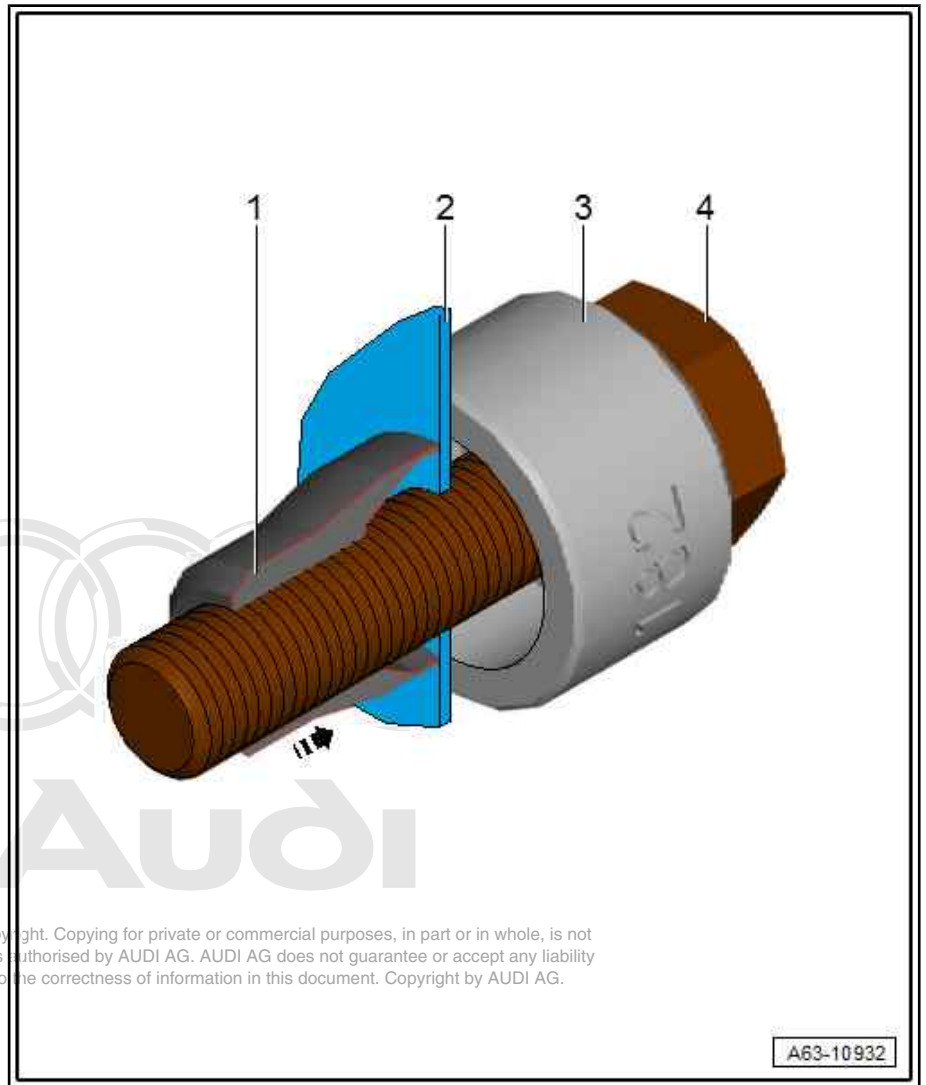


The 4 markings for the bracket -1- are located on the inside of the bumper cover.

- If they are missing, determine centre point -2-.
- Pre-drill holes working from inside to outside using drill bit -3- supplied with tool kit.

Making holes with punch

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- Apply punch with top screw -4-, washer and thrust bearing -3- from inside of bumper cover -2-.
- Screw on punch bit -1- from outside until it is almost touching bumper cover -2-.
- Then press punch bit -1- against bumper cover -2-.
- Screw bolt with top screw -4- into punch.

i Note

When screwing in the bolt -4-, the punch bit -1- must not be allowed to turn while in contact with the painted surface of the bumper cover.

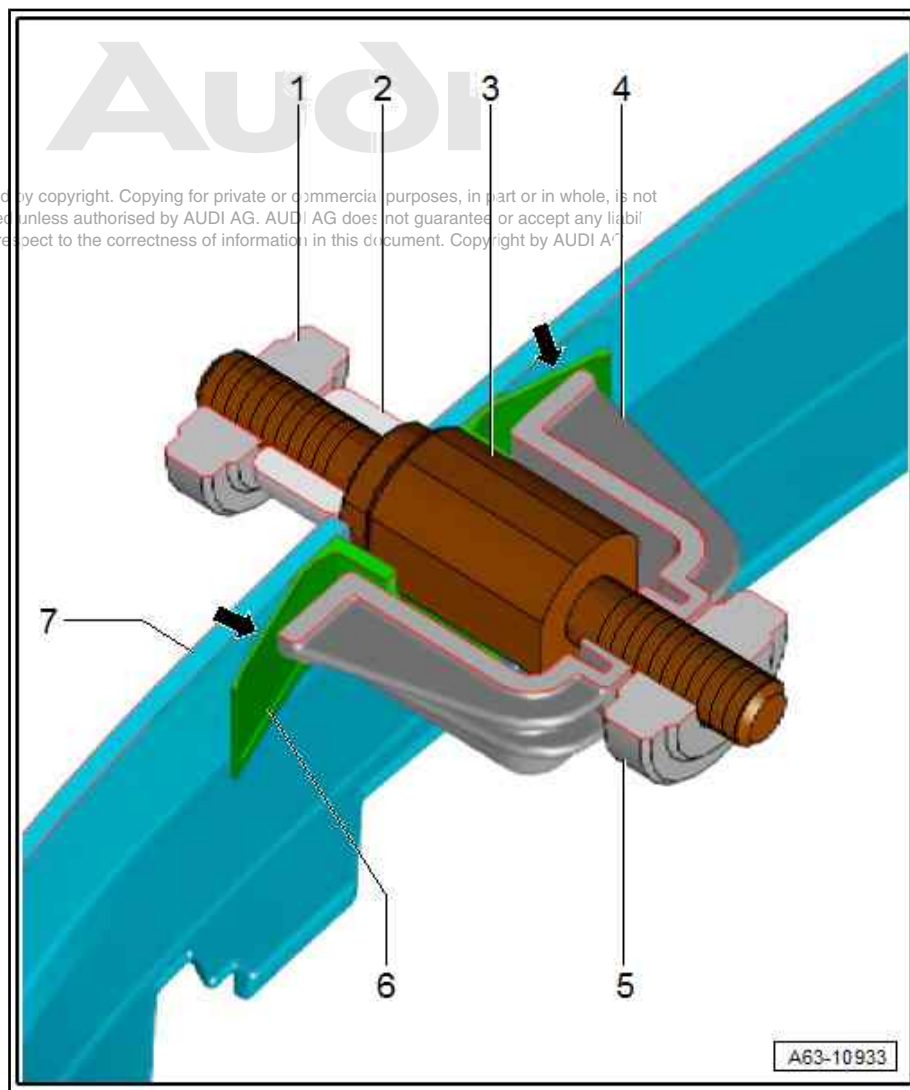
- When bolt -4- is turned, punch bit -1- is drawn through material of bumper cover -2- in direction of -arrow-.
- Remove punch and apply again to punch out remaining holes.

Inserting brackets in bumper cover



Note

The brackets must be attached in the same position in the new bumper cover as they were in the old one.



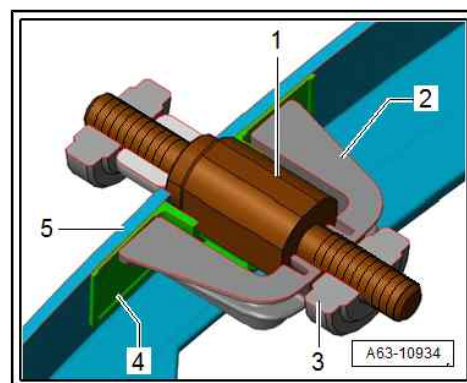
- Sand inside of bumper cover and bracket at bonding surfaces, and clean thoroughly.
- Clean bumper cover and brackets thoroughly with plastic cleaner - D 195 850 A1- and allow to flash off for 5 minutes.
- Apply a thin coating of primer for plastic components - D 822 150 A1- to bumper cover and bracket, and allow to flash off for 10 minutes.
- Slide bracket -6- onto centring mandrel -3- and push mandrel through bumper cover.
- Slide on counterhold tool -2- from outside and tighten knurled nut slightly.
- Align bracket -6- in correct position and according to markings on bumper cover.

- Slide on clamp -4- and screw in knurled nut -5- but do not tighten yet.
- Prepare all brackets up to this step prior to bonding.



Note

- ◆ *The first few centimetres of adhesive from the mixing nozzle may not be properly mixed and must therefore be discarded.*
- ◆ *The adhesive must not be allowed to run past the bonding surfaces into the grooves on the bracket.*
- Apply 2-component plastic adhesive - D 180 KU2 A1- to areas marked by arrows between bracket and bumper cover.
- Tighten knurled nut -3- at centring pin -1-.
- This results in clamp -2- pushing tabs on side of bracket -4- flat onto bumper cover -5-.
- Perform this step for all brackets.
- After minimum drying time for 2-component plastic adhesive - D 180 KU2 A1- , remove all centring mandrels.



2.10.4 Minimum drying time



Caution

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- ***A minimum drying time of 30 minutes must be observed before performing further work on the bumper cover or brackets.***
- ***The bumper cover must be left at the work station during this period and must not be moved.***

64 – Glazing

1 Flush-bonded windows

1.1 Removing and installing flush-bonded windows

Special tools and workshop equipment required

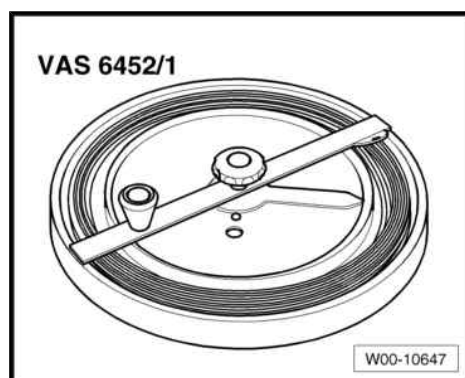
- ◆ Removal kit for flush bonded windows - VAS 6452-

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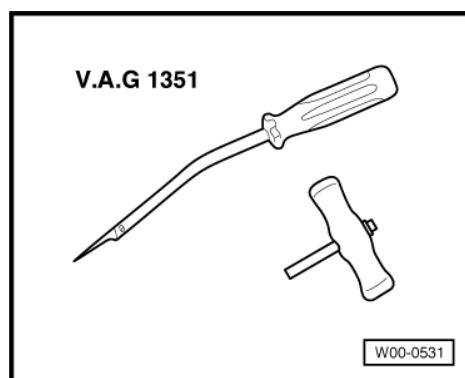


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- ◆ Wire reel - VAS 6452/1-

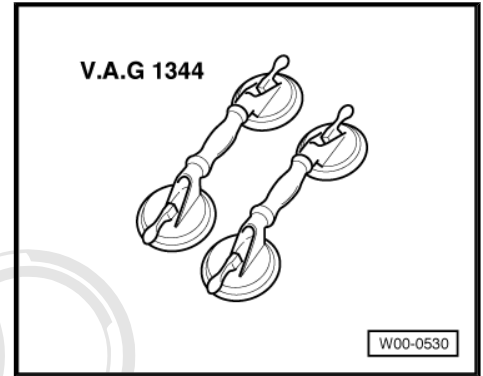


- ◆ Wire for removal kit - VAS 6452/2-
- ◆ Cutting tool - V.A.G 1351-

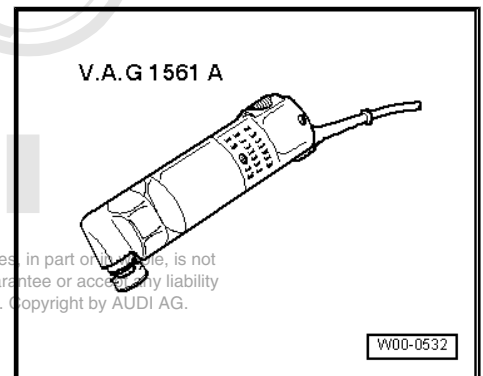


- ◆ Pull handle - V.A.G 1351/1-

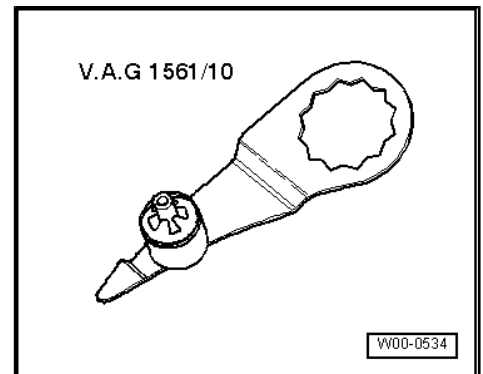
◆ Suction lifter - V.A.G 1344-



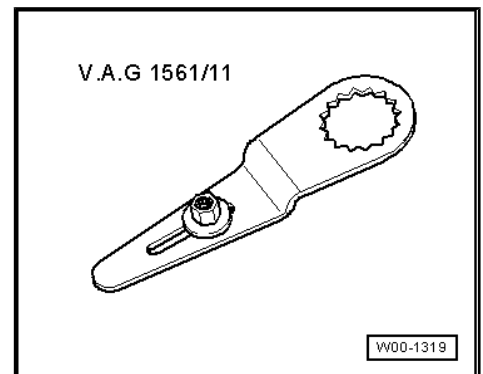
◆ Electric cutter - V.A.G 1561A-



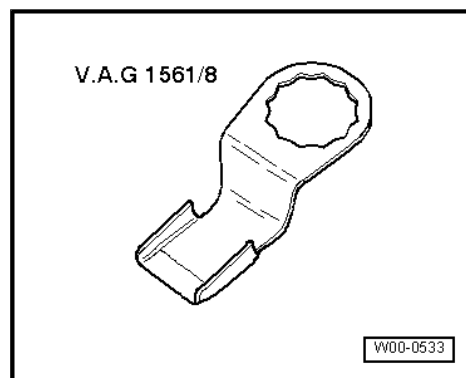
◆ Blade, offset - V.A.G 1561/10-



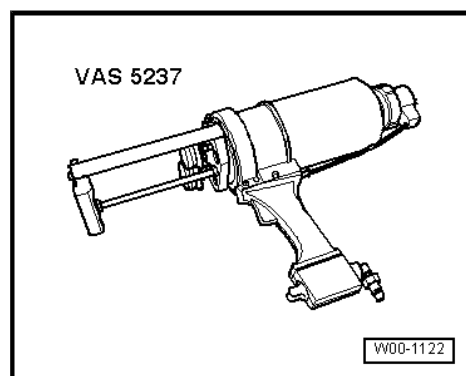
◆ Universal blade - V.A.G 1561/11-



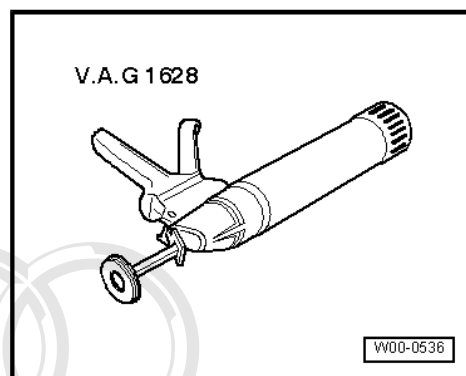
- ◆ Scraper (15 + 25 mm) - V.A.G 1561/7+8-



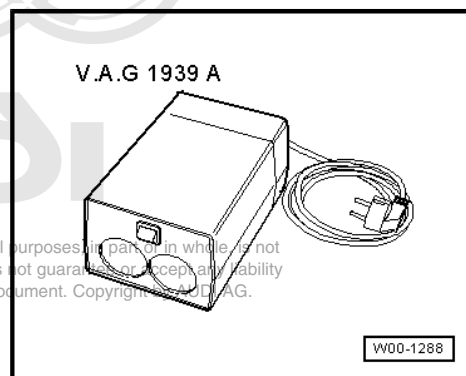
- ◆ Double cartridge gun - VAS 5237-



- ◆ 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 adhesive - DA 004 600 A2-	3
Rear window		2-component window 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 exert outward pressure on the window you have just fitted.

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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

- ◆ 2-component window adhesive - DA 004 600 A2- ⁵⁾
- ◆ 1-component window adhesive - DH 009 100 03- ⁸⁾
- ◆ 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-

5) Note minimum drying times ⇒ , [page 139](#) .

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

1.3 Repairing windows 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.*

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 the vehicle passenger compartment, make sure you do not exert outward pressure on the window you have 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 Exploded view - windscreen



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1 - Windscreen

- ☐ Removing ⇒ [page 148](#)
- ☐ When installing, align windscreen on left and right (»dimension b«).
- ☐ Height adjustment ⇒ [page 144](#)
- ☐ Installing ⇒ [page 152](#)

2 - Water deflector strip

- ☐ Do not press into fastening strip until glass adhesive has hardened.

3 - Glass adhesive

- ☐ Note different distances from edge of windscreen.

◆ Dimension a = 7 mm

◆ Dimension c = 7 mm

◆ Dimension d = 24 mm

- ☐ Note drying times ⇒ [page 140](#).

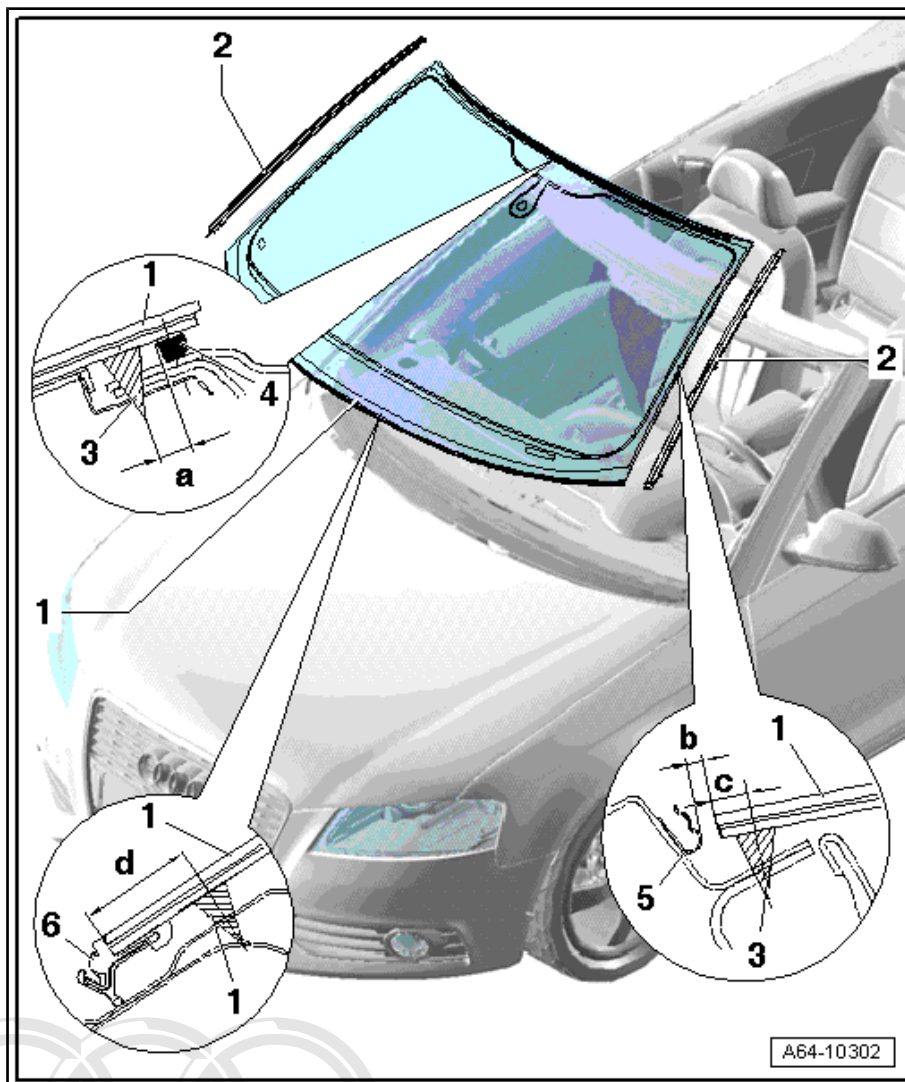
4 - Spacer

5 - Fastening strip

6 - Retaining strip for plenum chamber cover

- ☐ Not available as a separate replacement part
- ☐ Allow glass adhesive to dry before pressing plenum chamber cover into retaining strip.

- ☐ Before assembling plenum chamber cover, first remove protective beading from new windscreen ⇒ [page 145](#).



Removing retaining rail

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1 - Roof frame

2 - Clip

- ☐ Inserted into roof frame (8x)

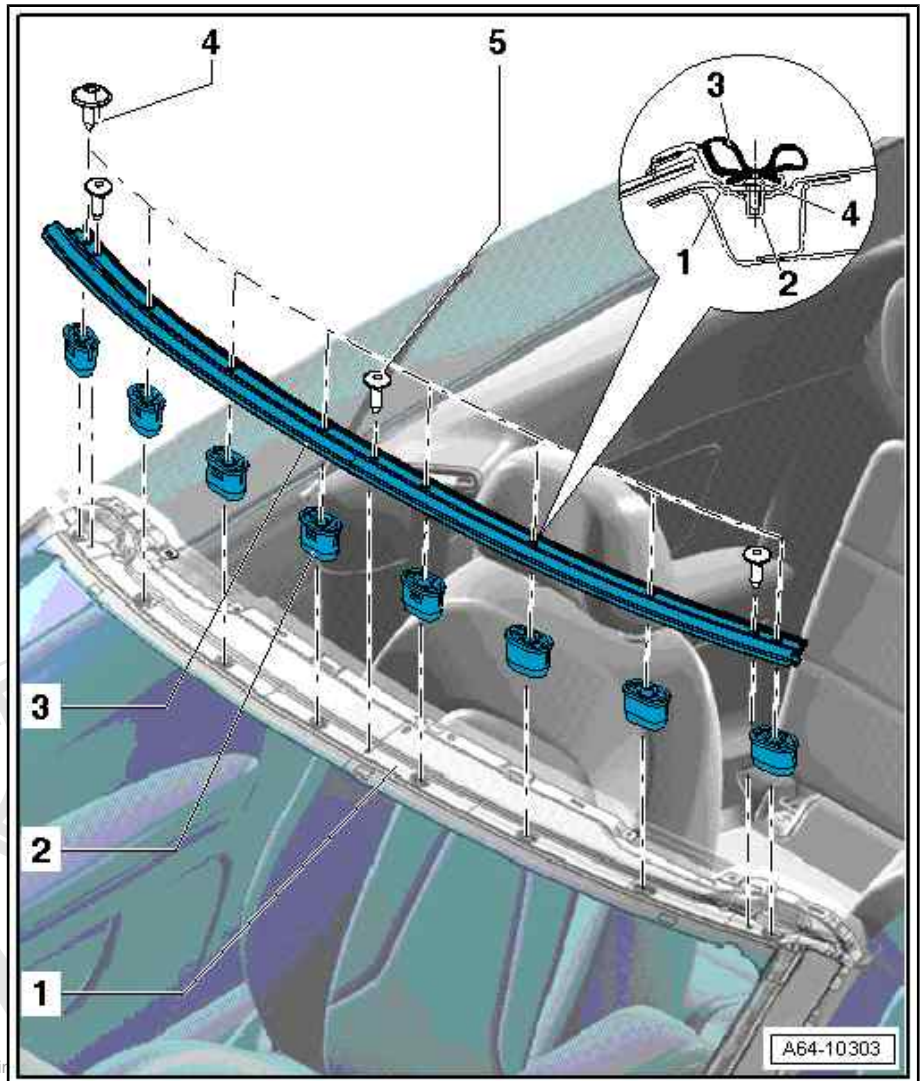
3 - Retaining rail

- ☐ To remove, pull seal out of retaining rail.
- ☐ Unscrew bolts and pull retaining rail with centring pins off roof frame.
- ☐ When installing, apply retaining rail, secure with centring pins and tighten bolts to torque.

4 - Bolt

- ☐ 1 Nm

5 - Centring pin



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Removing water deflector strip

1 - Pop rivet

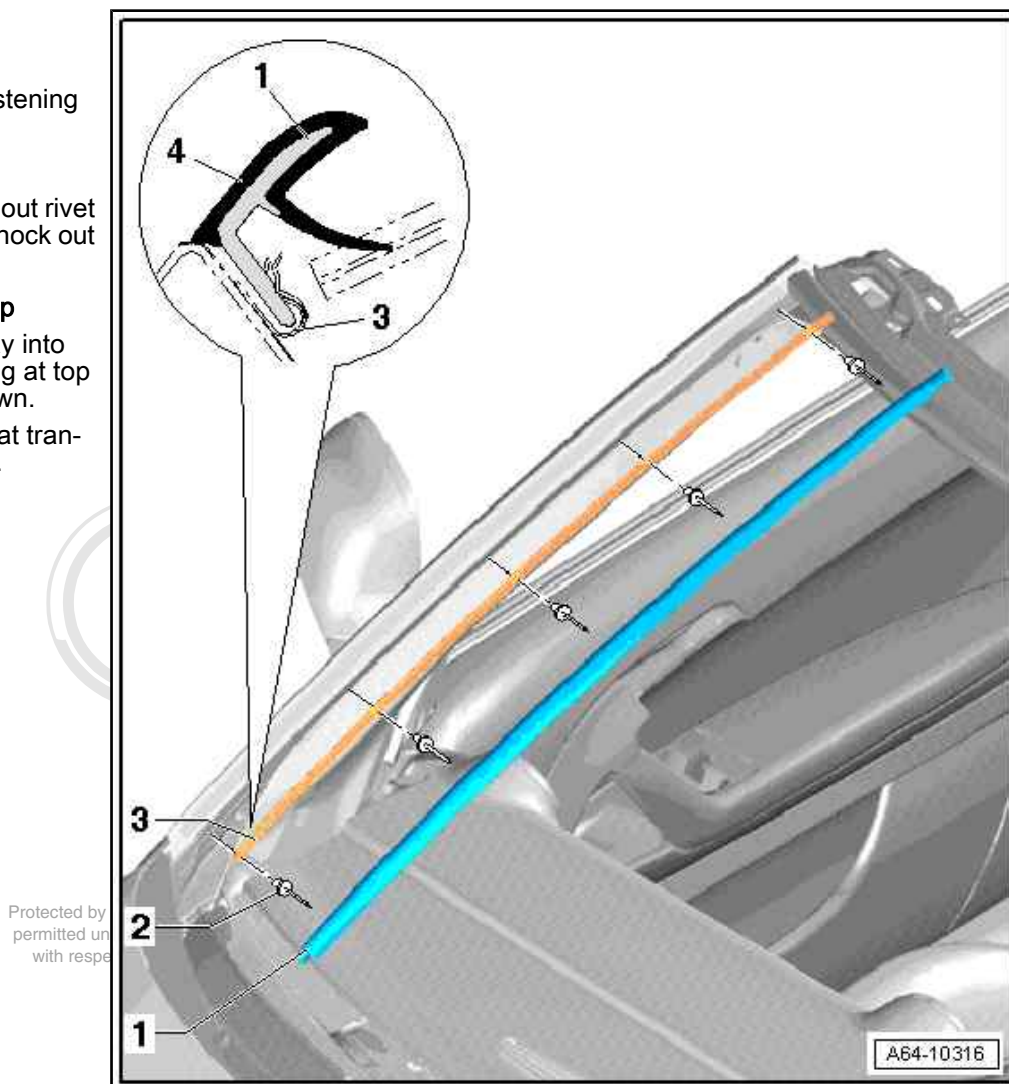
- ☐ 5x
- ☐ Start riveting fastening strip from top.

2 - Fastening strip

- ☐ To remove, drill out rivet heads -4- and knock out rivets

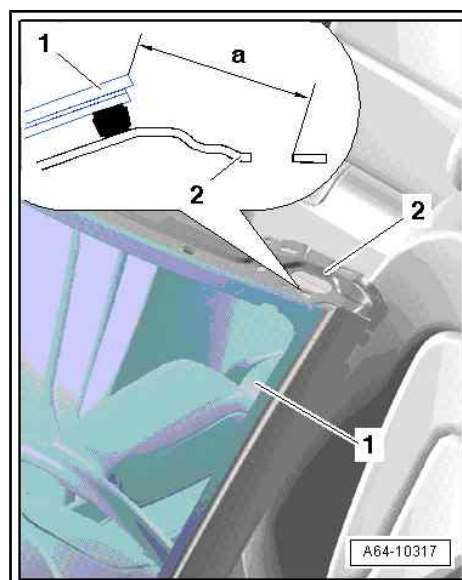
3 - Water deflector strip

- ☐ Press all the way into guide rail starting at top and working down.
- ☐ Ensure flush fit at transition to A-pillar.



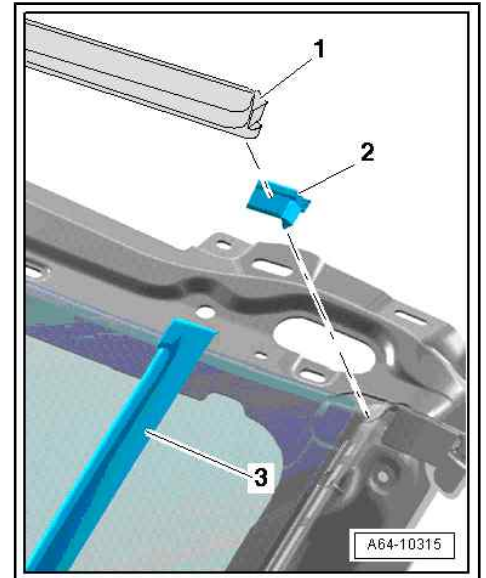
Adjusting height of windscreen

- When installing windscreen, align windscreen -1- at the sides and adjust dimension -a- = 31 mm to hole in roof frame -2-.
- Prevent windscreen from sliding down with an adjusting wedge at bottom of windscreen.
- Assemble retaining rail for seal and secure windscreen additionally with adhesive tape.



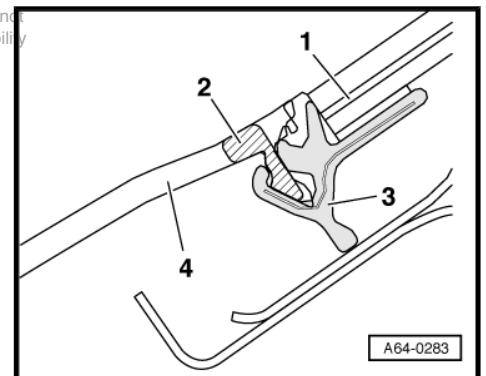
Installing moulding for windscreen

- Retaining rail -1- for seal and water deflector strip -3- removed.
- Bonding surface on windscreen must be free of dust and grease (clean with cleaning solution - D 009 401 04-).
- Peel off protective film, apply seal of moulding according to contour and press on firmly.



Removing protective beading

- In the case of a new windscreen, you must, before installing plenum chamber cover -4-, remove protective beading -2- from retaining strip -3- on windscreen -1-.



1.7 Removing and installing rain sensor

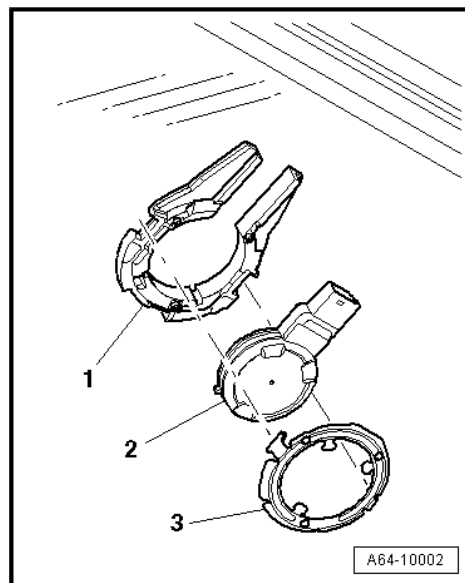
Removing rain sensor



Note

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

- Exterior mirror removed ⇒ Rep. gr. 70
- Detach clip -3- from retainer plate -1- for mirror base.
- Unplug electrical connector leading to rain sensor.
- Remove rain sensor from mirror base.
- Sensor foil will remain attached to 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 solution D 009 401 04.



Installing rain sensor



Note

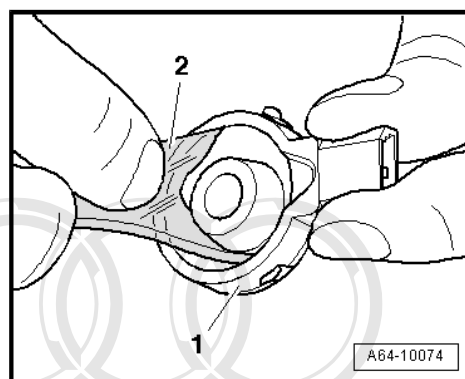
If re-installing the same rain sensor please proceed as follows:

- Remove any remains of the sensor foil from the rain sensor.
- 0
- In addition, clean surface using cleaning solution D 009 401 04.

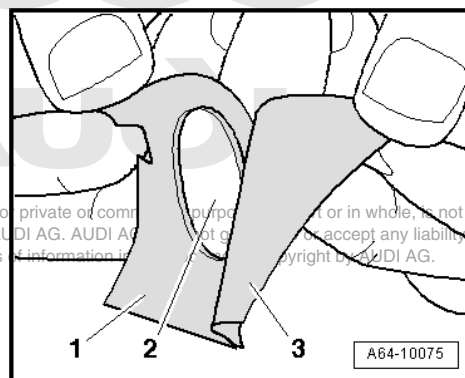


Caution

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

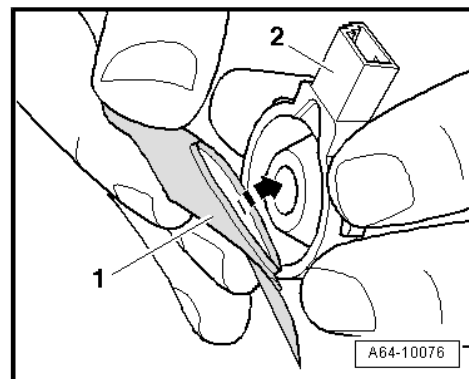


- Detach the silicone paper from the sensor foil.
- Transparent protective film remains on the sensor foil for the time being in order to facilitate installation.

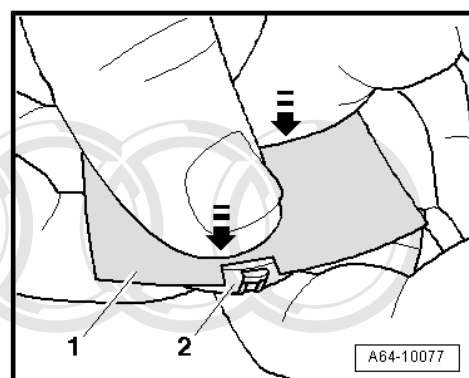


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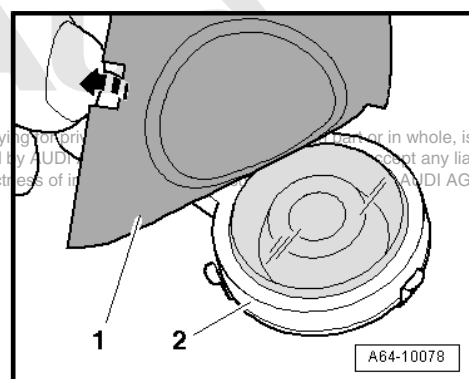
- Place sensor foil on rain sensor, using protective film as an aid.



- Press sensor foil onto rain sensor in direction of -arrow- (as shown in illustration), making sure there are no air bubbles.



- Pull transparent protective film off sensor foil.



- Spray cleaning solution D 009 401 04 onto entire surface of sensor foil 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.

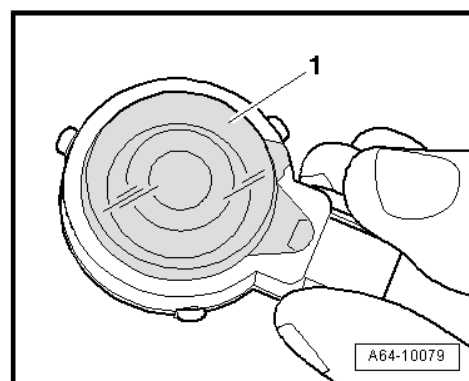
Renewing rain sensor



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.

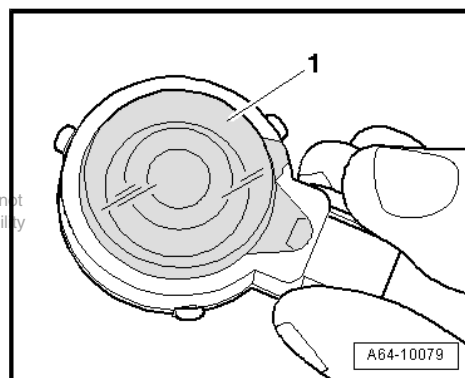
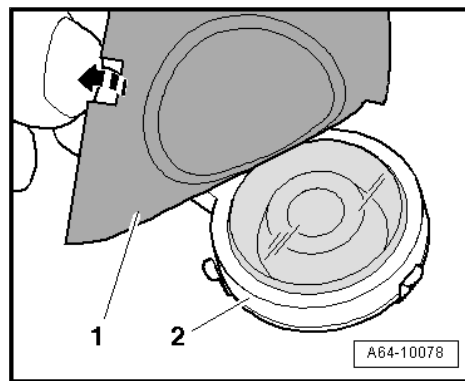


- Detach protective film from sensor foil.
- Spray cleaning solution D 009 401 04 onto entire surface of sensor foil and insert sensor in mirror base.
- Press sensor onto windscreen making sure you do not trap any air bubbles and position retaining clip on mirror base.



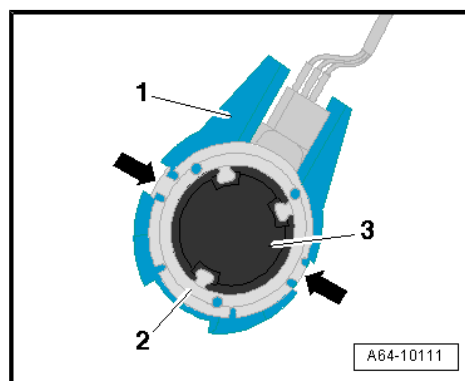
Caution

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.



Unclipping retaining clip

- Unplug connector.
- Use a small screwdriver or similar tool to press retaining clip -2- outwards at points marked by -arrows-.
- Detach retaining clip -2- from mirror base -1-.
- Take rain and light sensor - G397- -3- out of mirror base.
- 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 solution D 009 401 04.



Installing rain and light sensor - G397-



Caution

If the same rain and light sensor - G397- is re-installed, the sensor foil must be renewed.

1.8 Removing windscreen

- ◆ Remove wiper arms ⇒ Rep. gr. 92 .
- ◆ Remove sun visors (left-side, centre and right-side) ⇒ Rep. gr. 70 .
- ◆ Remove interior mirror ⇒ Rep. gr. 68 .
- ◆ Remove A-pillar trim (top, left and right) ⇒ Rep. gr. 70 .
- ◆
- Remove plenum chamber cover ⇒ [page 7](#) .

- Remove seal and retaining rail (top).
- Remove water deflector strip.



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 body flange with adhesive tape -1- to avoid damage where awl is pushed through at the bottom.
- 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.

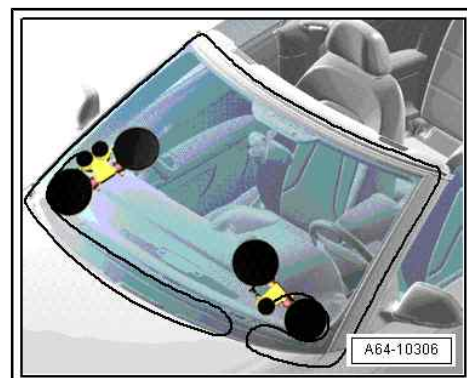
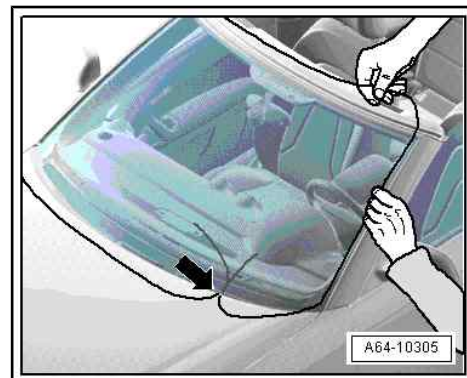
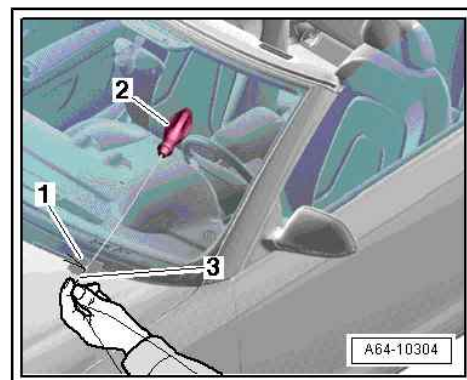


Caution

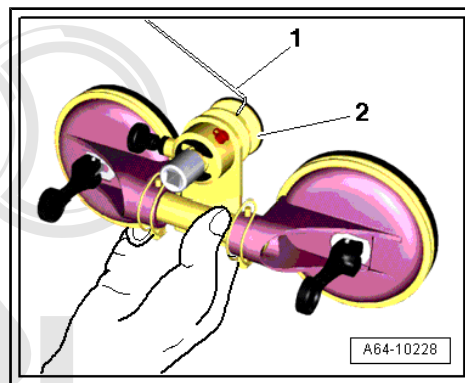
The wire ends must not be twisted at the point where they pass through the adhesive bead -arrow-.

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

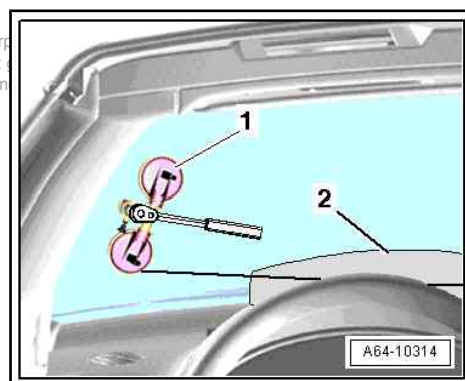


- Insert end of cutting wire -1- into reel -2-.

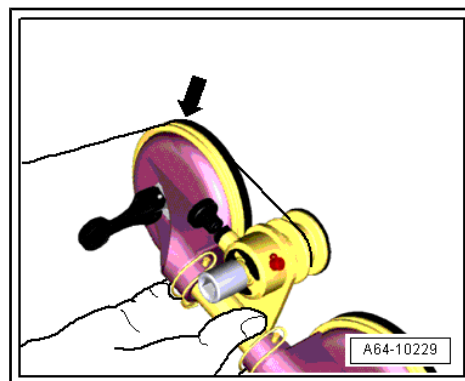


- Tension cutting wire and insert protective film -2- between dash panel and wire.

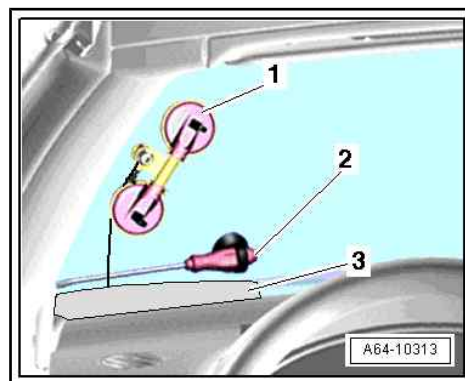
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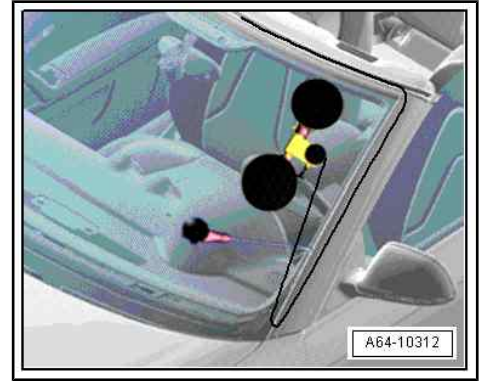
- Cut clear the first area. While doing so, wire is guided into integrated idler pulley -arrow- on reel.



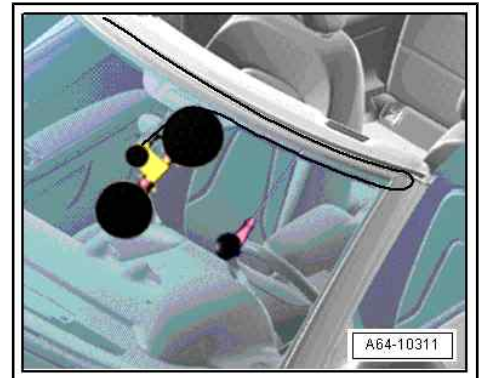
- Additionally insert guide awl -2- into adhesive bead, as shown, and attach it to window using suction pad so that wire runs along window as close to the glass as possible.
- Adjust protective film -3- as necessary with length of wire and continue cutting clear using reel -1-.



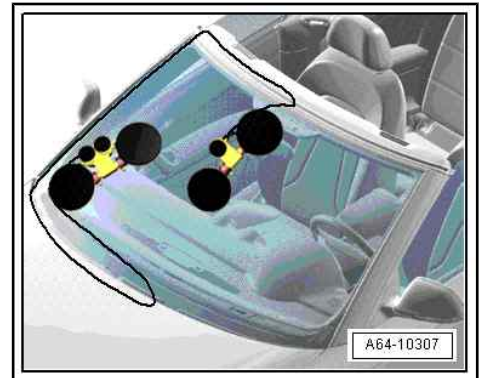
- Adjust reel and guide awl as shown, and cut clear area at A-pillar.
- Adjust reel and guide awl to approx. centre of windscreen, as shown.



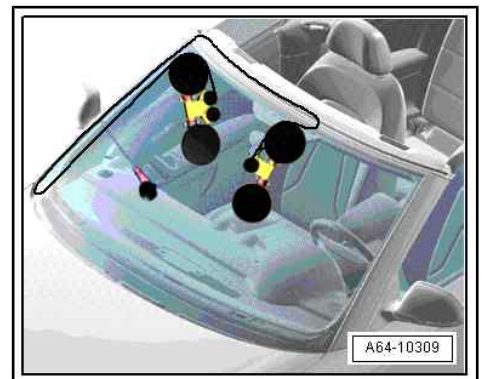
- Cut windscreen clear approx. to centre.



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

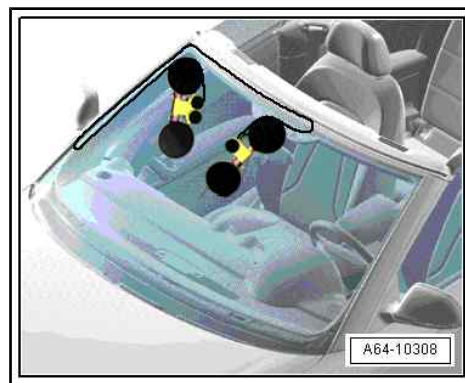


- Move reel up and insert guide awl, as shown.

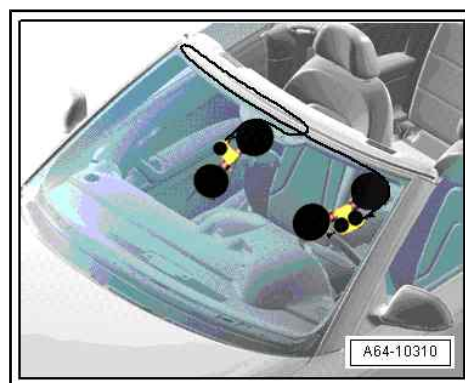


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- Cut windscreen clear upwards along A-pillar.



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



1.9 Installing windscreen

Preparations before installing 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 flange to give a smooth 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.**

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If installing a new windscreen:

- Clean all around 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.
- Flash-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

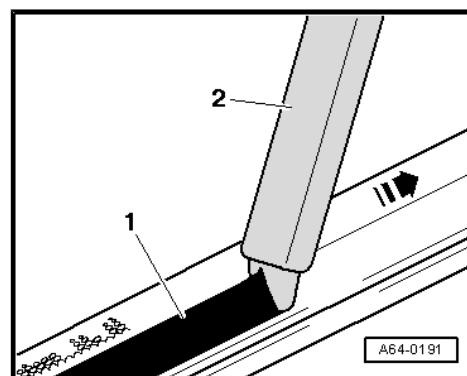
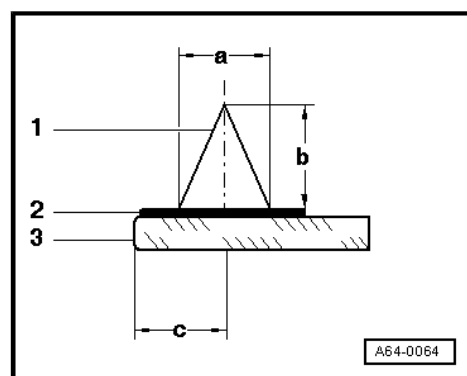
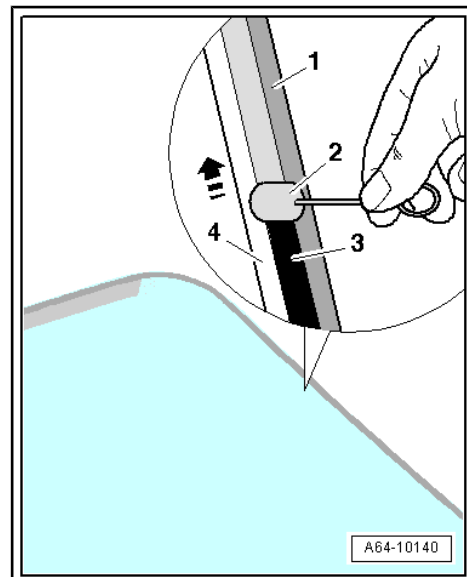
The cross-section of the adhesive bead is determined by the nozzle opening and the rate of application.

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 ⇒ [page 141](#) .

- Apply full surface of nozzle -2- to windscreen.
- Direction of application -arrow- for adhesive bead -1-.

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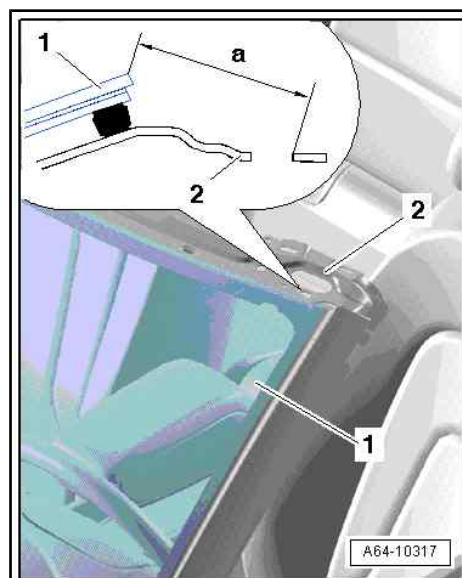
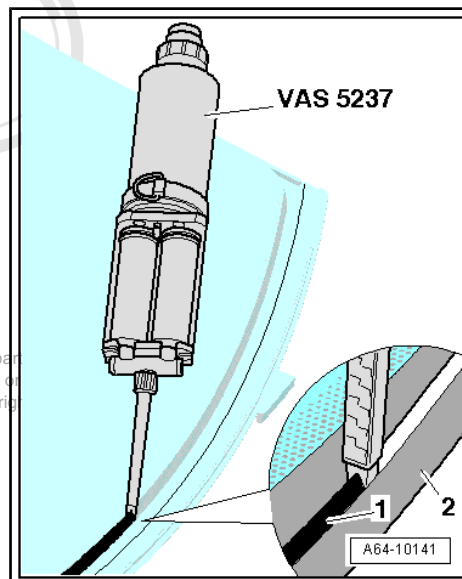
- Apply adhesive sealant -1- all around windscreen -2-, as shown.
- When reinstalling an undamaged windscreen, apply adhesive to remaining adhesive bead.
- Install windscreen glass in windscreen opening using two double suction lifters.



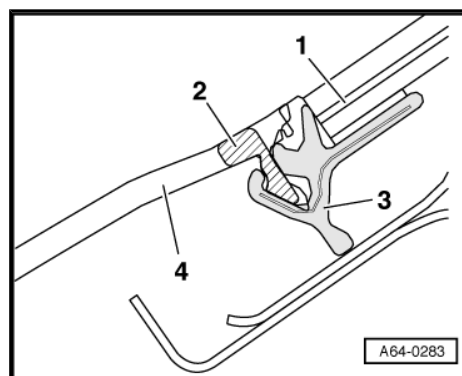
Caution

The windscreen must be fitted within 15 minutes; otherwise the adhesive properties of the adhesive sealant will be impaired.

- Align windscreen glass so that spacing is equal on both sides.
- Distance between edge of windscreen and holes in roof frame (left and right): dimension -a- = 31 mm.
- Prevent windscreen from sliding down with an adjusting wedge at bottom of windscreen.
- Install retaining rail at roof frame (top).
- Secure windscreen to roof at top with adhesive tape.



- In the case of a new windscreen, you must, before installing plenum chamber cover -4-, remove protective beading -2- from retaining strip -3- on windscreen -1-.
- Note minimum drying time ⇒ [page 140](#).



2 Windows secured by threaded fasteners

2.1 Exploded view - front door window

1 - Window regulator

2 - Bolt

□ 9 Nm

3 - Door window

□ Removing and installing
⇒ [page 156](#)

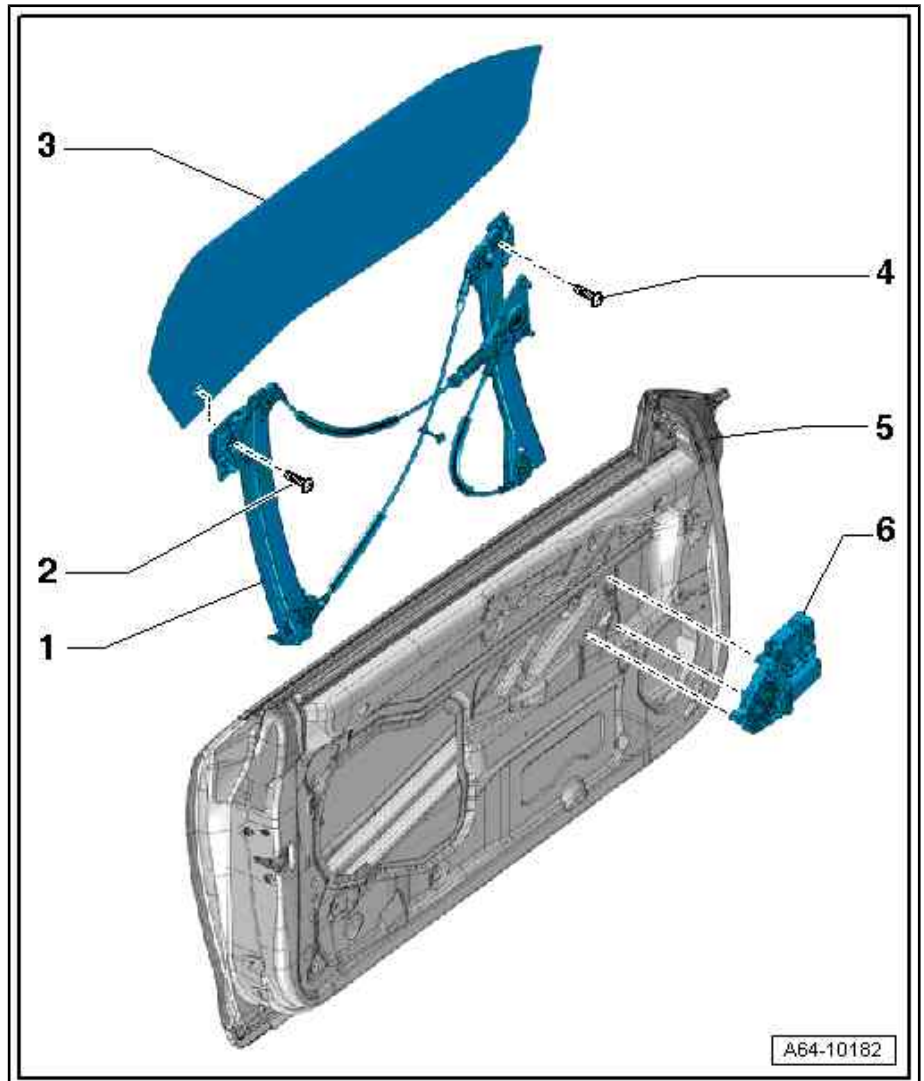
□ Adjusting
⇒ ["2.3 Adjustment dimensions and gap widths - door window", page 156](#)

4 - Bolt

□ 9 Nm

5 - Door

6 - Window regulator motor



2.2 Removing and installing door window

Removing

- Remove door trim ⇒ Rep. gr. 70 .
- Detach inner window slot trim strip from door shell
⇒ [page 168](#) .
- Pull out sealing plugs -2- and -4-.
- Lower door window until bolts in opening are visible.
- Unscrew bolt -1- and loosen bolt -5-.



Note

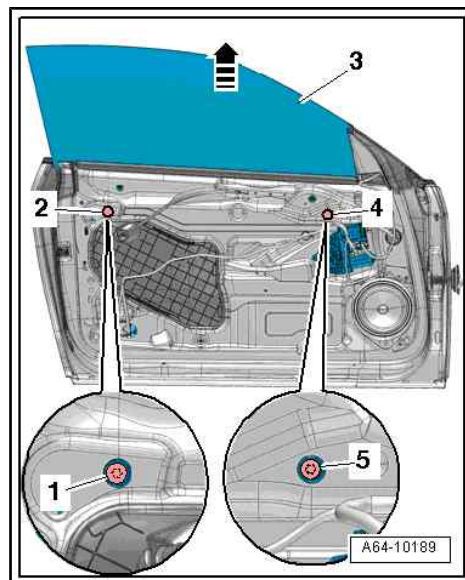
To remove the door window, the bolt -1- must be unscrewed completely from the window regulator.

- Pull door window -3- upwards out of clamping jaws and lift out of door -arrow-.



Note

If the door window cannot be lifted at the rear edge, the clamping jaw is still attached to the door window.



Installing

- Tightening torque ⇒ [page 155](#)
- Adjustment dimensions and gap widths ⇒ [page 156](#) .

Install in reverse order of removal; note the following:

- Tilt door window forwards and insert it in door window guide.
- Align door window in window guide (front) and slide door window downwards.
- Press door window downwards into actuators.
- Tighten bolts.
- Adjusting door window: lateral adjustment ⇒ [page 158](#) , height adjustment ⇒ [page 160](#) .

2.3 Adjustment dimensions and gap widths - door window

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A - Door window to A-pillar (bottom)

- Dimension -a- = 10.15 mm
- Dimension -b- = 5.5 mm
- ❑ Adjusting: lateral adjustment ➔ [page 158](#), height adjustment ➔ [page 160](#)

-1- Door window

-2- Door seal at A-pillar

-3- Double-sided adhesive tape

B - Door window to A-pillar (top)

- Dimension -c- = 10.0 mm
- Dimension -d- = 6.6 mm
- ❑ Adjusting: lateral adjustment ➔ [page 158](#), height adjustment ➔ [page 160](#)

-1- Door window

-2- Door seal at A-pillar

-3- Double-sided adhesive tape

C - Door window to convertible roof

- Dimension -e- = 8.47 mm
- Dimension -f- = 7.0 ± 2.0 mm

❑ Adjusting: lateral adjustment ➔ [page 158](#), height adjustment ➔ [page 160](#)

-1- Door window

-4- Convertible roof seal

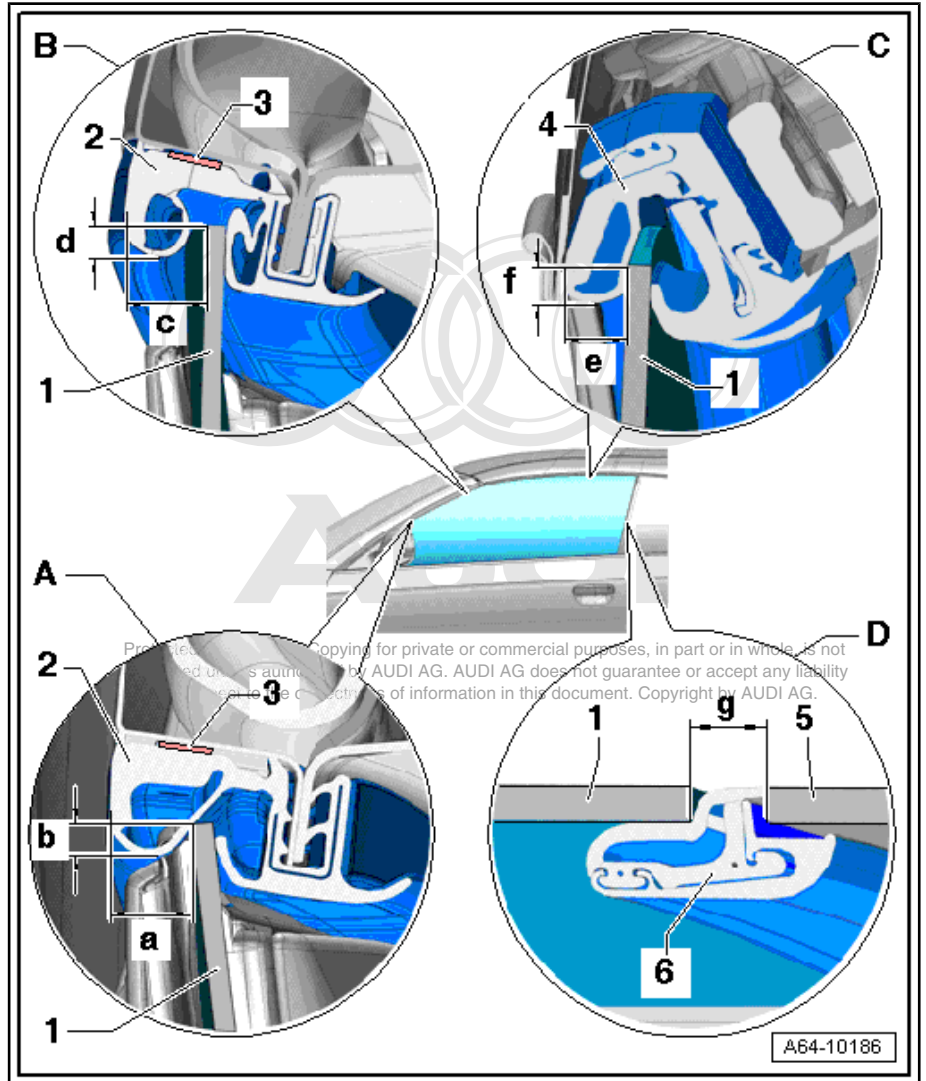
D - Door window to side window

- Dimension -g- = $9.0 + 1.0$ mm
- ❑ Adjusting: lateral adjustment ➔ [page 158](#), height adjustment ➔ [page 160](#)

-1- Door window

-5- Side window

-6- Window seal – component of side window



2.4 Adjusting door window (lateral adjustment)

A - Door (bottom, rear)

- ❑ Accessible through holes at bottom edge of door; it is not necessary to remove door trim
⇒ [page 159](#)

-1- Nut for window regulator (tightening torque
⇒ [page 156](#))

-2- Window regulator

-3- Door

B - Adjustment option - door (top, rear)

- ❑ For moving door window -4- in door window slot outwards or inwards
- ❑ Accessible after removing door trim
⇒ [page 159](#)
- To adjust, loosen lock nut -5- and turn adjusting pin -6- with Torx socket wrench.
- Turning anti-clockwise turns door window outwards
- Turning clockwise turns door window inwards
- After adjusting, tighten lock nut -5- (tightening torque ⇒ [page 41](#)).

-2- Window regulator

-3- Door

C - Adjustment option - door (top, front)

- ❑ For moving door window -4- in door window slot outwards or inwards
- ❑ Accessible after removing door trim ⇒ [page 159](#)
- To adjust, loosen lock nut -5- and turn adjusting pin -6- with Torx socket wrench.
- Turning anti-clockwise turns door window inwards
- Turning clockwise turns door window outwards
- After adjusting, tighten lock nut -5- (tightening torque ⇒ [page 41](#)).

-2- Window regulator

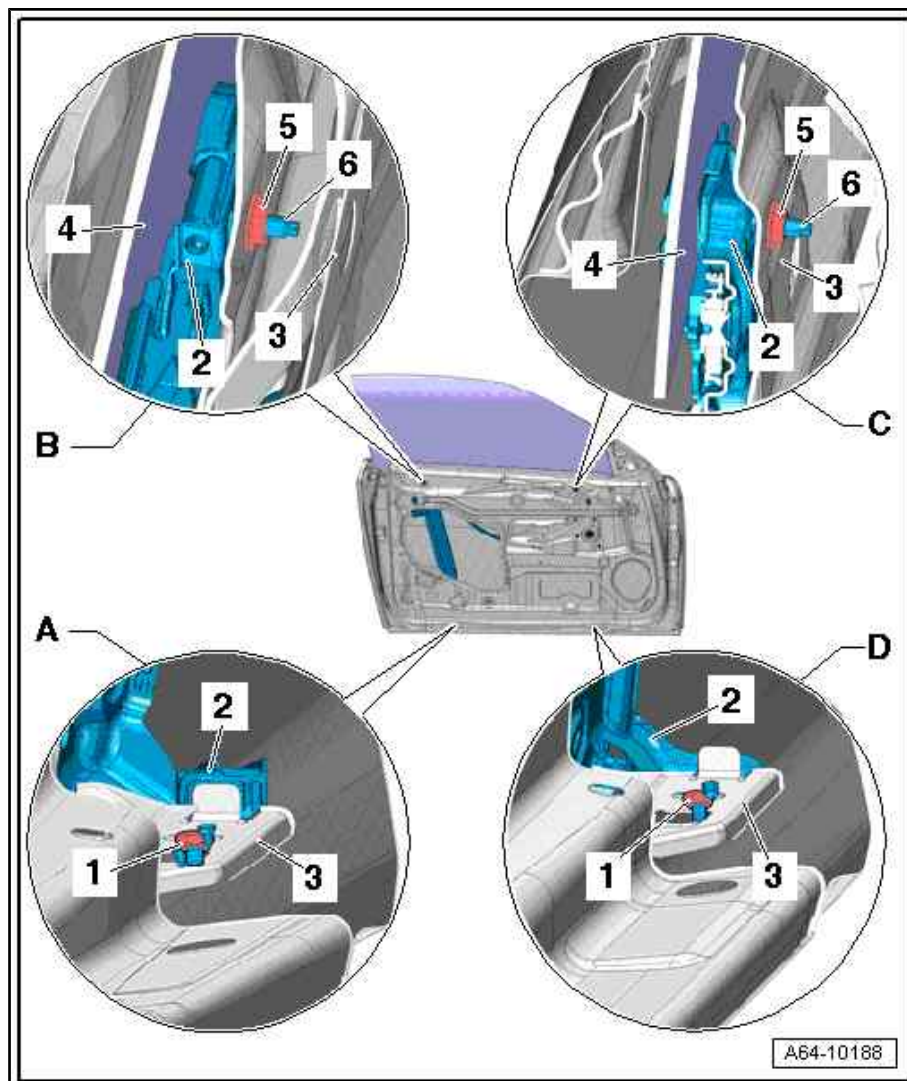
-3- Door

D - Door (bottom, front)

- ❑ Accessible through holes at bottom edge of door; it is not necessary to remove door trim ⇒ [page 159](#)

-1- Nut for window regulator (tightening torque ⇒ [page 41](#))

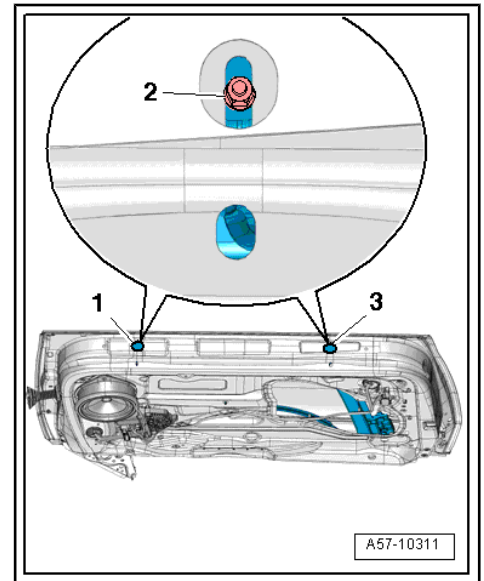
-2- Window regulator



-3- Door

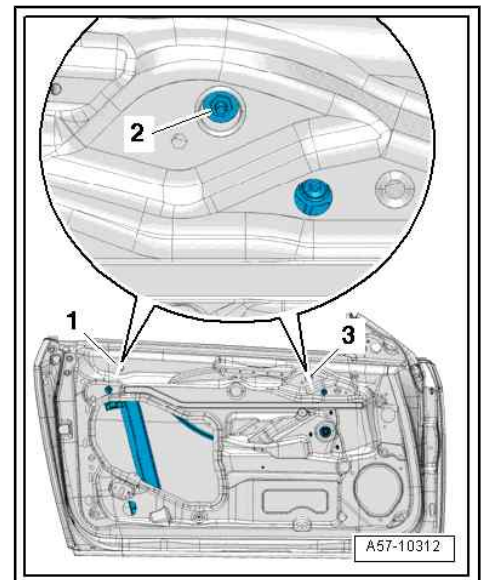
Access to nuts (bottom) for window regulator

- Take out sealing plugs -1- and -3- at bottom edge of door.
- Loosen each of window regulator nuts -2- at bottom (access through large holes).



Access to nuts (top) for window regulator

- Remove door trim ⇒ Rep. gr. 70 .
- Remove sealing plugs (top) -1- and -3-.
- Loosen nuts (top) -2- for window regulator.



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2.5 Adjusting door window (height adjustment)

A - Adjustment option - door (bottom, rear)

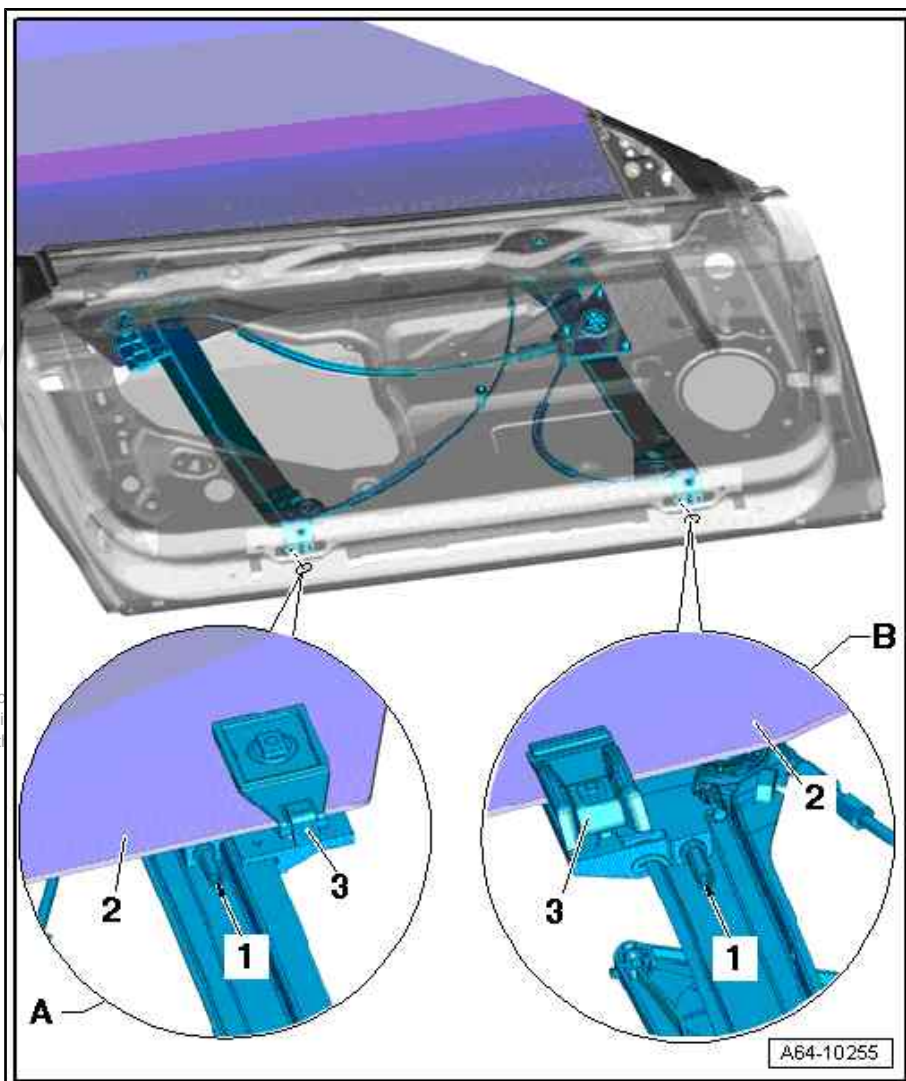
- ❑ For bringing top edge of door window -2- into contact with seal on convertible roof
- ❑ Accessible through holes at bottom edge of door; it is not necessary to remove door trim
- For height adjustment, turn adjuster screw -1- with 5 mm Allen key.
- One turn = 1 mm adjustment

-3- Window regulator

B - Adjustment option - door (bottom, front)

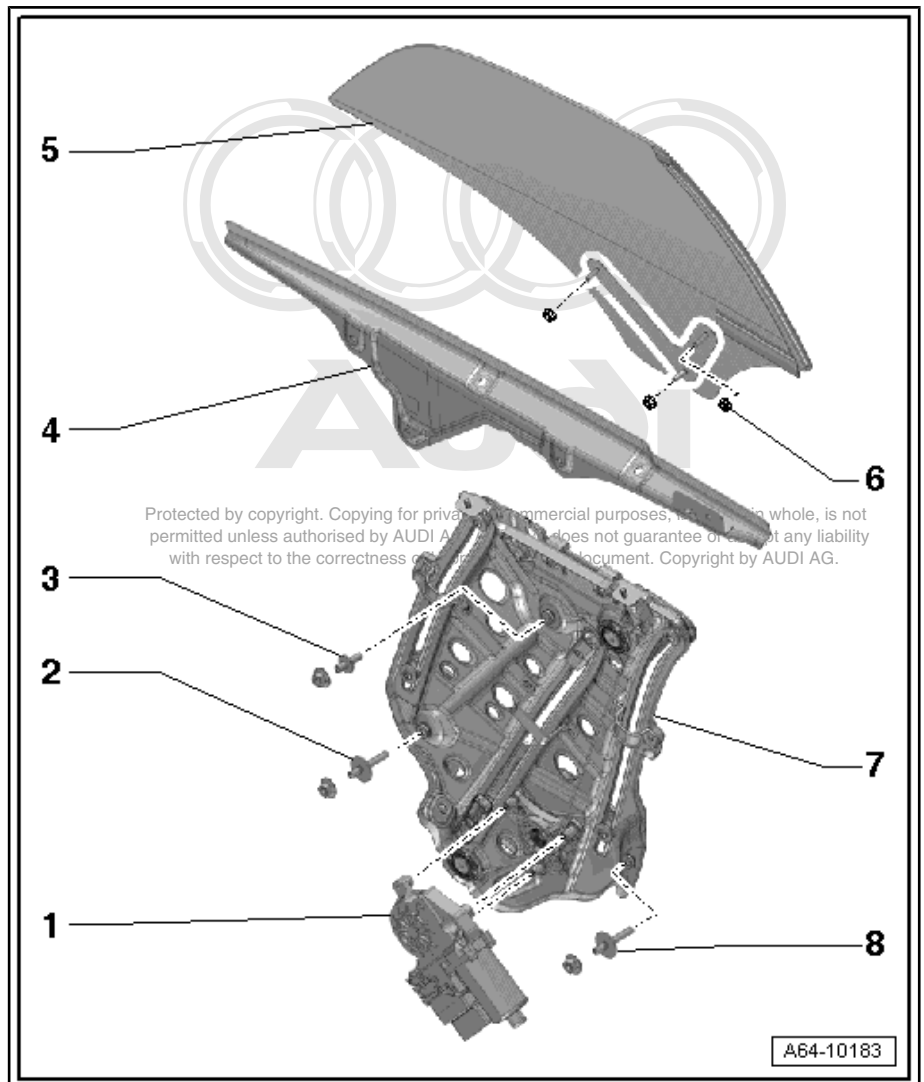
- ❑ For bringing top edge of door window -2- into contact with seal at A-pillar
- ❑ Accessible through holes at bottom edge of door; it is not necessary to remove door trim
- For height adjustment, turn adjuster screw -1- with 5 mm Allen key.
- One turn = 1 mm adjustment

-3- Window regulator



2.6 Exploded view - side window (rear), mounting element and window regulator

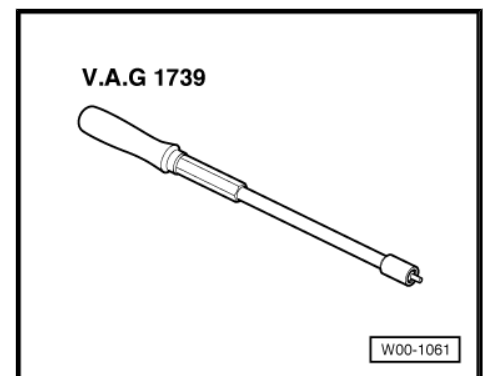
- 1 - Window regulator motor
- 2 - Adjuster screw
 - ☐ For adjusting angle of side window (bottom, rear)
- 3 - Adjuster screw
 - ☐ For adjusting angle of side window (top)
- 4 - Mounting element
 - ☐ For side window
- 5 - Side window
 - ☐ Removing and installing
⇒ [page 161](#)
 - ☐ Adjusting
⇒ ["2.8 Adjustment dimensions and gap widths - side window", page 162](#)
- 6 - Nut
 - ☐ 6 Nm
- 7 - Window regulator
- 8 - Adjuster screw
 - ☐ For adjusting angle of side window (bottom, front)



2.7 Removing and installing side window

Special tools and workshop equipment required

- ◆ Rear window adjusting tool - V.A.G 1739-



Removing

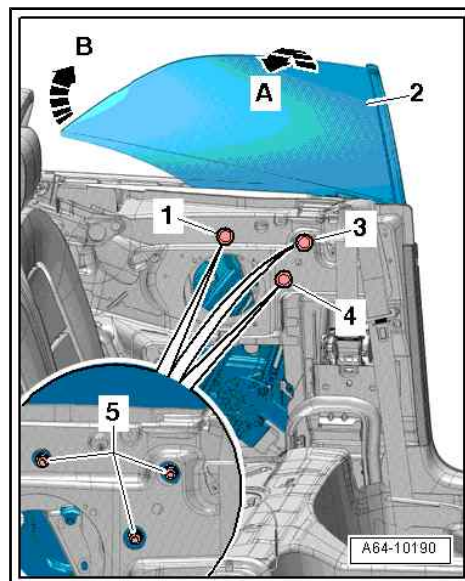
- Remove rear side trim ⇒ Rep. gr. 70 .
- Remove mounting element for side window ⇒ [page 61](#) .
- Pull out sealing plugs -1, 3, 4-.
- Unscrew nuts -5-; to do so, lower side window until nuts become visible in holes in inner side panel.
- Tilt side window -2- towards interior of vehicle -arrow A- until threaded pins of retaining bracket for side window become disengaged from window regulator.
- Swivel side window towards top and rear out of body opening -arrow B-.

Installing

- Tightening torque ⇒ [page 161](#)
- Adjustment dimensions and gap widths ⇒ [page 162](#) .

Install in reverse order of removal; note the following:

- Install mounting element for side window ⇒ [page 61](#) .
- Adjusting side window: lateral adjustment ⇒ [page 164](#) , height adjustment ⇒ [page 165](#) .



2.8 Adjustment dimensions and gap widths - side window

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A - Door window to side window

- Dimension -a- = 9.0 + 1.0 mm
- Adjusting: lateral adjustment ➔ [page 164](#), height adjustment ➔ [page 165](#)

-1- Door window

-2- Side window

-3- Window seal – component of side window

B - Side window to convertible roof (top)

- Dimension -b- = 8.4 mm
- Dimension -c- = 7.0 ± 2.0 mm
- Adjusting: lateral adjustment ➔ [page 164](#), height adjustment ➔ [page 165](#)

-2- Side window

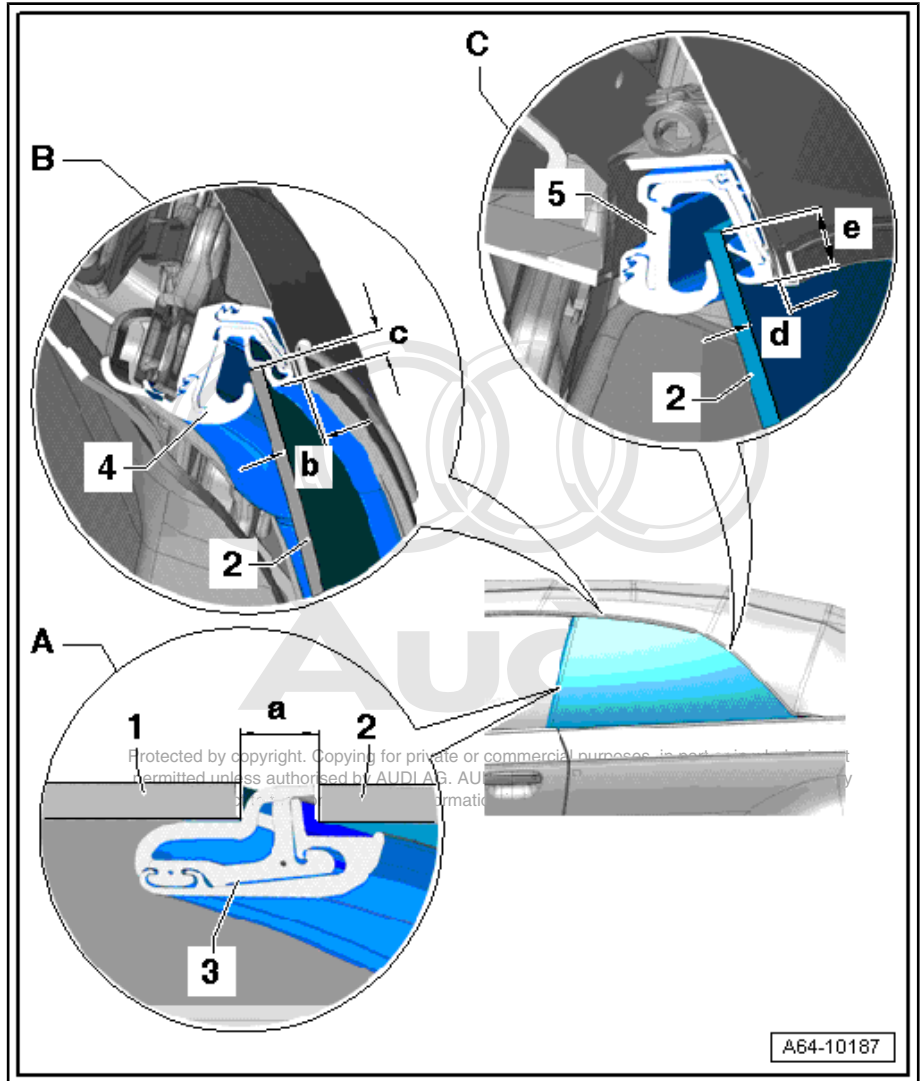
-4- Convertible roof seal (top)

C - Side window to convertible roof (rear)

- Dimension -d- = 8.4 mm
- Dimension -e- = 12.0 mm ± 5.0 mm
- Adjusting: lateral adjustment ➔ [page 164](#), height adjustment ➔ [page 165](#)

-2- Side window

-5- Convertible roof seal (rear)



2.9 Adjusting side window (lateral adjustment)

A - Adjustment option - side window (top)

- ❑ For bringing top edge of side window -4- into contact with seal on convertible roof
- ❑ Accessible after removing rear side trim ➔ Rep. gr. 70
- To adjust, loosen nuts and bolts on mounting element for side window ➔ [page 61](#).
- Loosen lock nut -1- and turn adjusting pin -2- with Torx socket wrench.
- Turning anti-clockwise turns side window outwards
- Turning clockwise turns side window inwards
- After adjusting, tighten lock nut -1- (tightening torque ➔ [page 60](#)).

-3- Window regulator

B - Adjustment option - side window (rear edge)

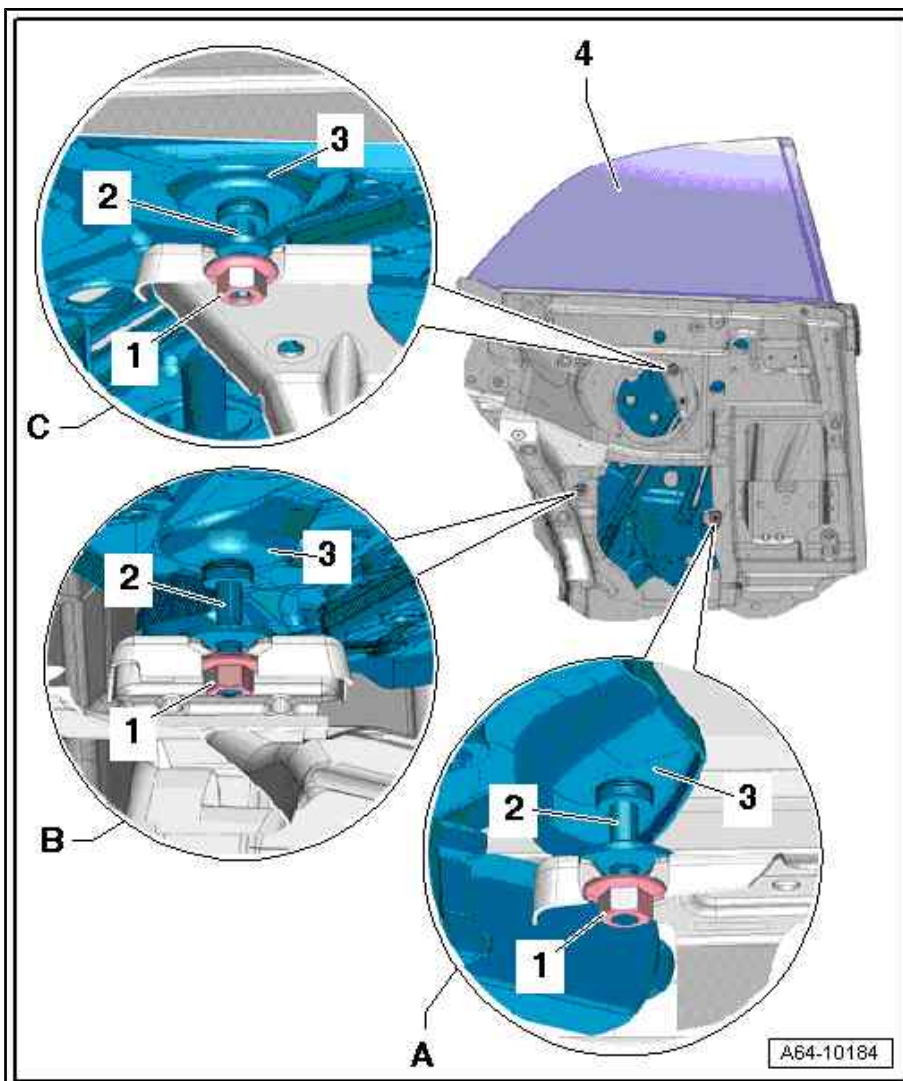
- ❑ For bringing top edge of side window -4- into contact with seal on convertible roof
- ❑ Accessible after removing rear side trim ➔ Rep. gr. 70

- To adjust, loosen nuts and bolts on mounting element for side window ➔ [page 61](#).
- Loosen lock nut -1- and turn adjusting pin -2- with Torx socket wrench.
- Turning anti-clockwise turns side window inwards
- Turning clockwise turns side window outwards
- After adjusting, tighten lock nut -1- (tightening torque ➔ [page 60](#)).

-3- Window regulator

C - Adjustment option - side window (front edge)

- ❑ For bringing side window -4- into contact with door window (front)
- ❑ Accessible after removing rear side trim ➔ Rep. gr. 70
- To adjust, loosen nuts and bolts on mounting element for side window ➔ [page 61](#).
- Loosen lock nut -1- and turn adjusting pin -2- with Torx socket wrench.
- Turning anti-clockwise turns door window inwards
- Turning clockwise turns door window outwards
- After adjusting, tighten lock nut -1- (tightening torque ➔ [page 60](#)).

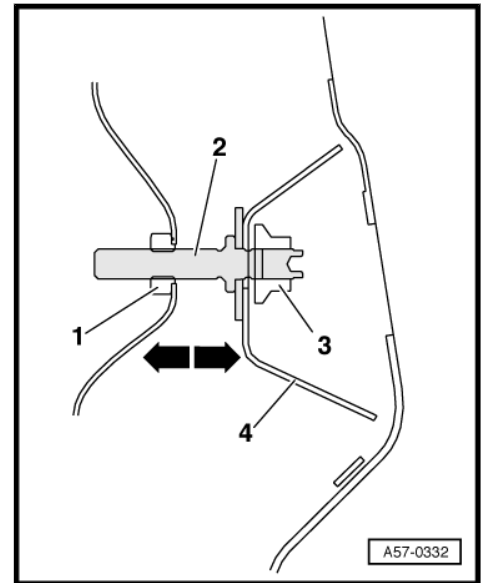


-3- Window regulator

Note

The window regulator -4- can be adjusted in the direction of the -arrow- by screwing in or loosening the adjuster screw -2- with the rear window adjusting tool - V.A.G 1739- .

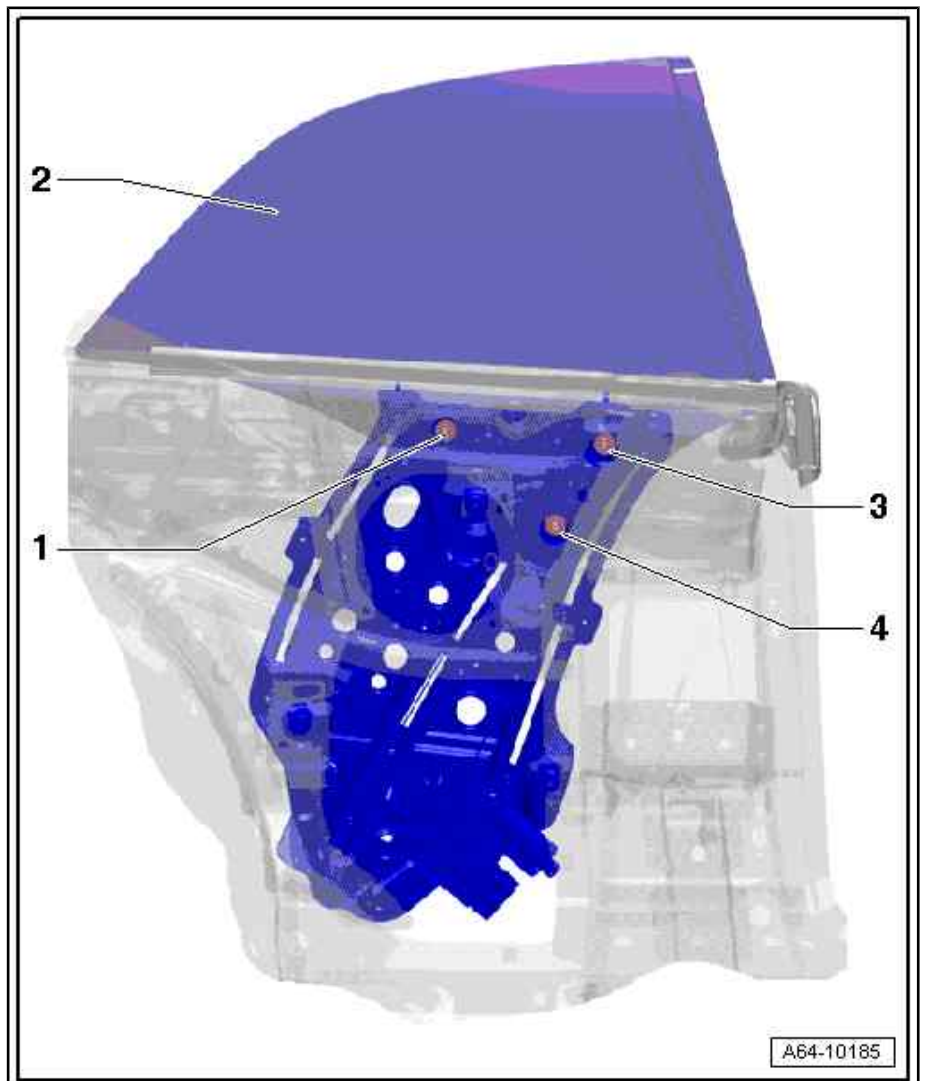
- Turning clockwise increases distance.
- 1 turn corresponds to approx. 2 mm.
- Tighten nuts and bolts.



2.10 Adjusting side window (height adjustment)

- Adjustment option - side window

- ☐ For bringing top edge of side window -2- into contact with seal on convertible roof
- ☐ Accessible after removing rear side trim ⇒ Rep. gr. 70
- Pull sealing plug out of inner side panel.
- To adjust height, loosen nuts -1, 3, 4- and move side window.



2.11 Exploded view - inner window slot trim strip and outer window slot trim strip/convertible roof compartment trim strip

1 - Outer window slot trim strip (left-side)

- ☐ Combined in one component with convertible roof compartment trim strip
- ☐ Removing and installing ⇒ [page 167](#)

2 - Outer seal (left-side)

- ☐ For side window
- ☐ Removing and installing ⇒ ["2.12 Removing and installing outer window slot trim strip/convertible roof compartment trim strip", page 167](#)

3 - Inner window slot trim strip (left-side)

- ☐ Removing and installing ⇒ [page 168](#)

4 - Inner window slot trim strip (right-side)

- ☐ Removing and installing ⇒ [page 168](#)

5 - Outer seal (right-side)

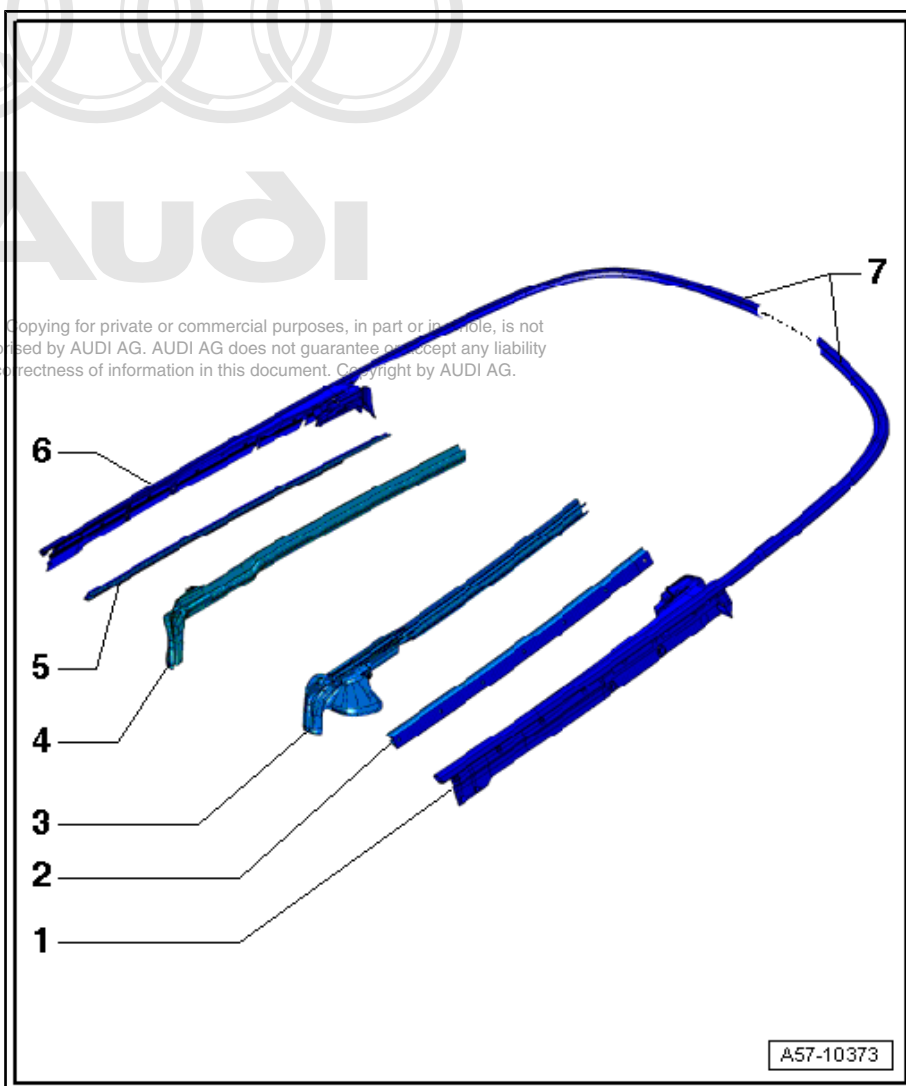
- ☐ For side window
- ☐ Removing and installing ⇒ ["2.12 Removing and installing outer window slot trim strip/convertible roof compartment trim strip", page 167](#)

6 - Outer window slot trim strip (right-side)

- ☐ Combined in one component with convertible roof compartment trim strip
- ☐ Removing and installing ⇒ [page 167](#)

7 - Convertible roof compartment trim strip

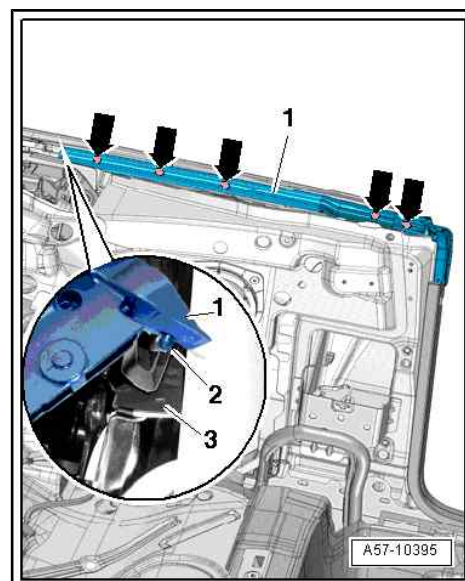
- ☐ Combined in one component with outer window slot trim strip
- ☐ Removing and installing ⇒ [page 167](#)



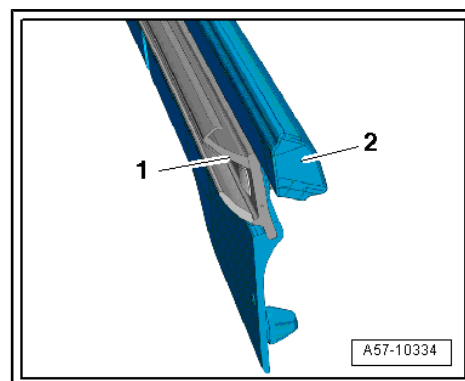
2.12 Removing and installing outer window slot trim strip/convertible roof compartment trim strip

Removing

- Remove side window (rear) ➤ [page 161](#).
- Unfasten retaining lugs -2- on convertible roof compartment -3-.
- Pull retaining lugs -arrows- on outer window slot trim strip/convertible roof compartment trim strip out of body.
- Pull outer window slot trim strip/convertible roof compartment trim strip -1- off body seam.



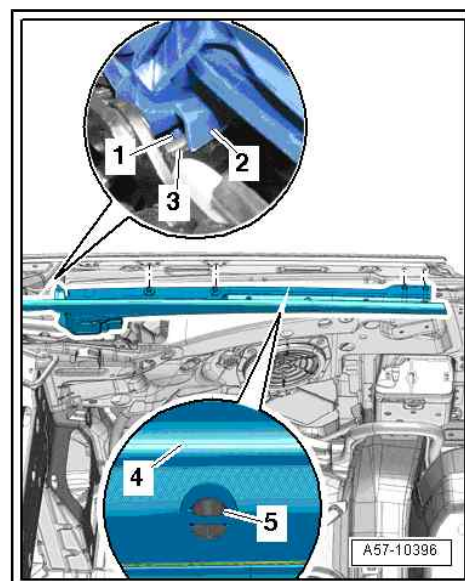
- Unfasten seal -1- on outside of outer window slot trim strip/convertible roof compartment trim strip -2- and detach seal.



Installing

Install in reverse order of removal; note the following:

- Fasten outer seal to outer window slot trim strip/convertible roof compartment trim strip.
- The retaining lugs -5- must be fully pressed into the outer window slot trim strip/convertible roof compartment trim strip -4-.
- The rubber lip -2- must make contact with the edge of the convertible roof compartment -3- after the retaining lug -1- has been pressed on.
- Slide outer window slot trim strip/convertible roof compartment trim strip onto body seam and press retaining lugs onto body.
- Install side window (rear) ➤ [page 161](#).

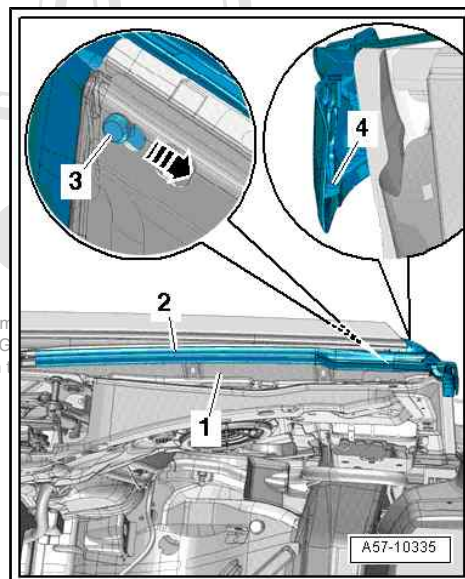


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2.13 Removing and installing inner window slot trim strip

Removing

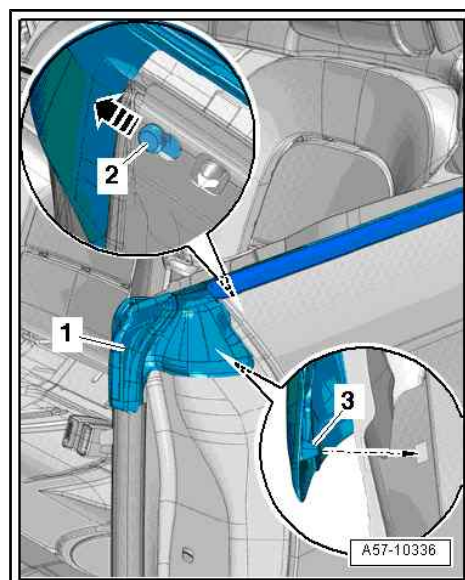
- Move rear side window to “open” position.
- Remove rear side trim ⇒ Rep. gr. 70 .
- Pull inner window slot trim strip -2- off mounting element -1- for side window.
- Disengage retaining lug -4- on inner window slot trim strip from outside of B-pillar.
- Press retaining pin -3- on inner window slot trim strip towards rear -arrow- and disengage retaining pin from mounting on body.
- Detach inner window slot trim strip.



Installing

Install in reverse order of removal; note the following:

- Insert retaining pin -2- of inner window slot trim into mounting on body and secure by pressing in direction of -arrow-.
- Fasten retaining lug -3- of inner window slot trim strip to outside of B-pillar.
- Press inner window slot trim strip -1- onto mounting element for side window.
- Install side trim (rear) ⇒ Rep. gr. 70 .



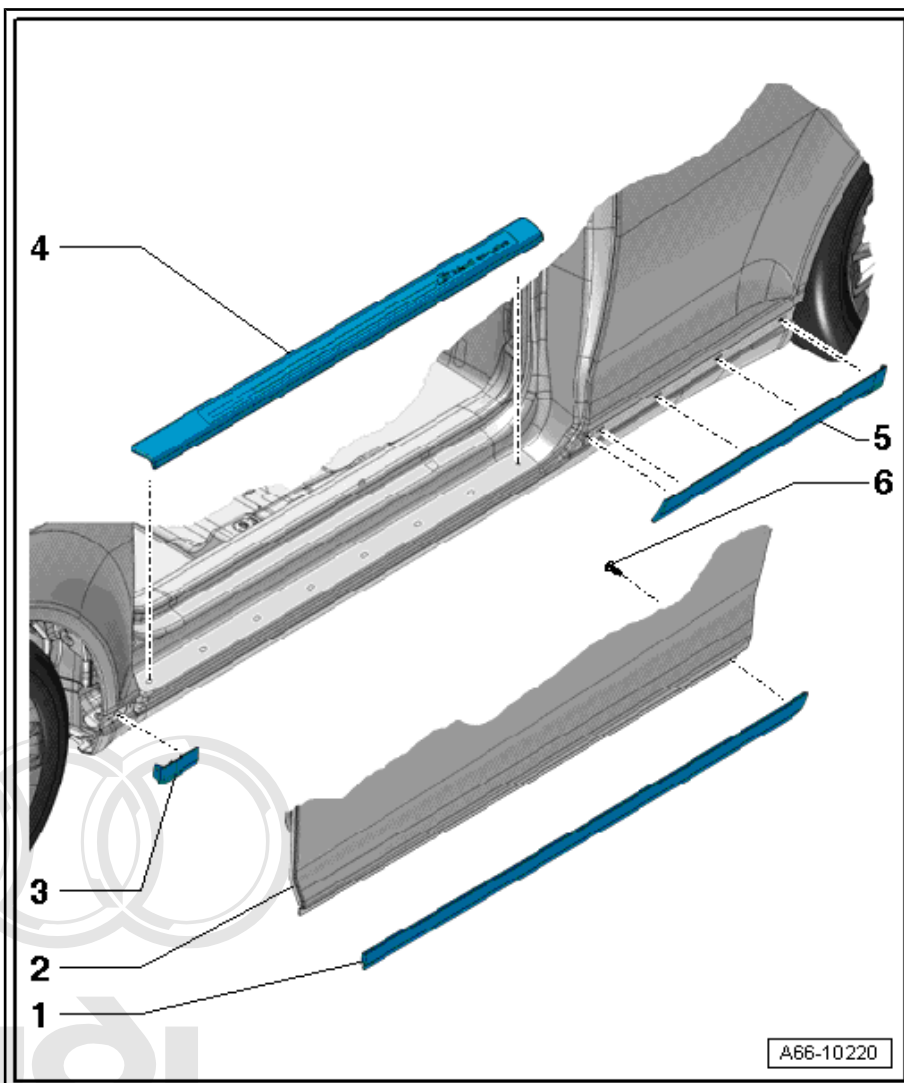
66 – Exterior equipment

1 Strips and panels

- The vehicle must be at room temperature before strips and panels are bonded on.
- All bonding surfaces must be free of dust and grease.

1.1 Exploded view - trim strips for front wing, front door, side panel and sill panel

- 1 - Trim strip for front door
 - ☐ Removing and installing
⇒ [page 171](#)
- 2 - Front door
- 3 - Trim strip for front wing
 - ☐ Removing and installing
⇒ [page 169](#)
- 4 - Sill panel trim
 - ☐ Removing and installing
⇒ [page 172](#)
- 5 - Trim strip for side panel (rear)
 - ☐ Removing and installing
⇒ [page 171](#)
- 6 - Bolt
 - ☐ 1 Nm

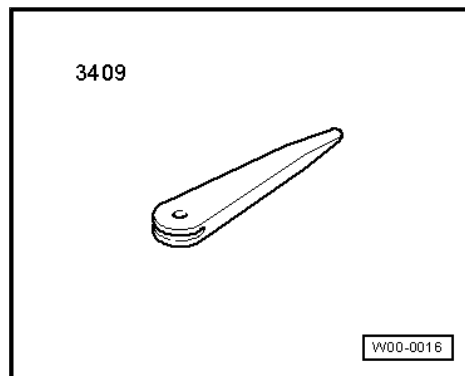


1.2 Trim strip for front wing

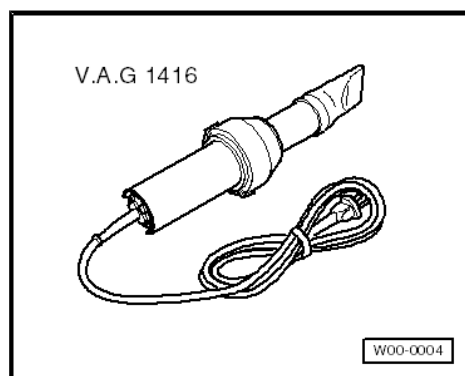
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Special tools and workshop equipment required

◆ Removal wedge - 3409-

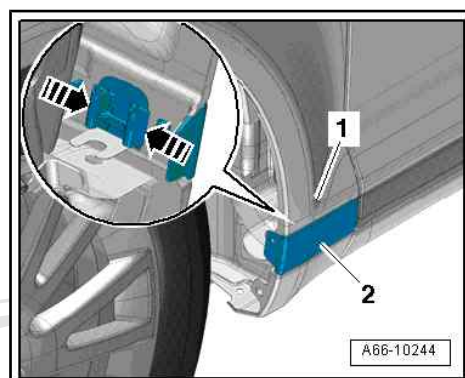


◆ Hot air blower - V.A.G 1416-



Removing

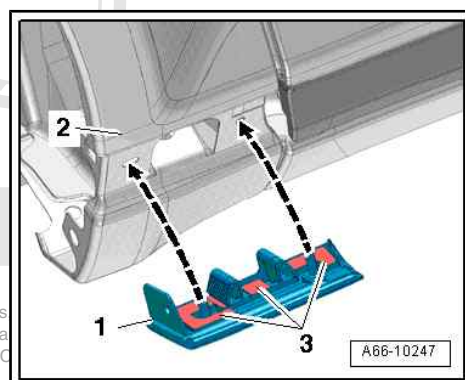
- Loosen rear section of wheel housing liner (front)
⇒ [page 193](#) .
- Carefully heat trim strip -2- with hot air blower - V.A.G 1416- .
- Release fasteners -arrows- and carefully prise trim strip -2- off wing -1- using removal wedge - 3409- .



Installing

Install in reverse order of removal; note the following:

- Clean bonding surface on wing with cleaning solution - D 009 401 04- .
- Peel protective film off adhesive strip -3-.
- Fit trim strip -1- on front wing, making sure that locating lugs -arrows- are pressed into mounting.
- Press trim strip onto front wing -2-.
- Install wheel housing liner (front) ⇒ [page 193](#) .



1.3 Removing and installing trim strip for front door

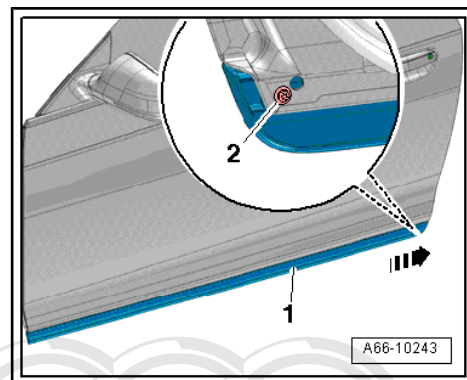
Removing

- Remove bolt -2- from inside of door.
- Slide trim strip -1- towards rear -arrow- and detach.
- Trim strip is automatically pushed out of mountings.

Installing

- Tightening torque ➔ [page 169](#)

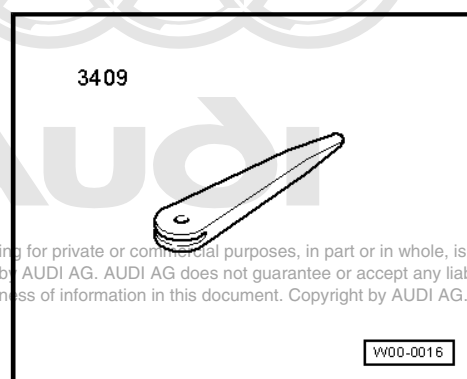
Install in reverse order of removal.



1.4 Trim strip for side panel (rear)

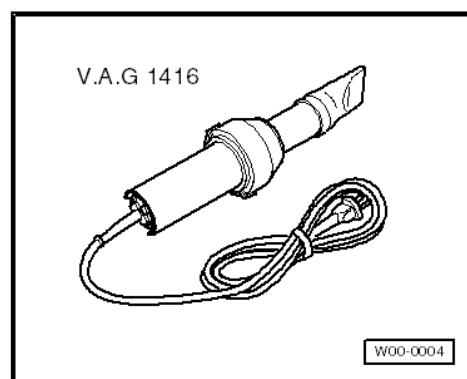
Special tools and workshop equipment required

- ◆ Removal wedge - 3409-



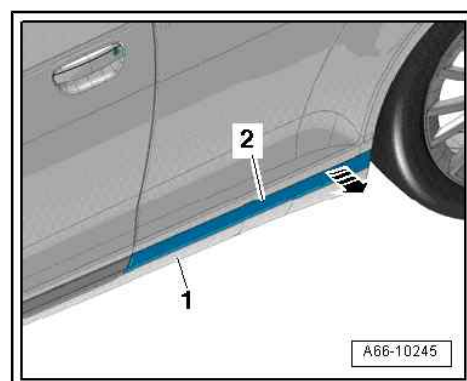
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- ◆ Hot air blower - V.A.G 1416-



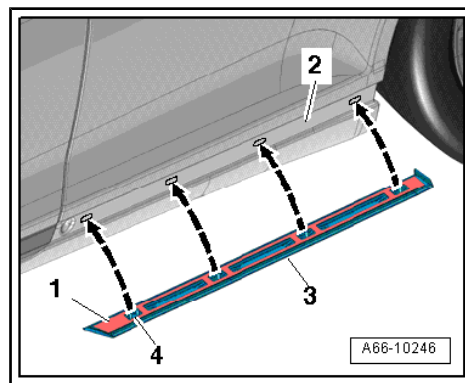
Removing

- Carefully heat trim strip -2- with hot air blower - V.A.G 1416- .
- Use removal wedge - 3409- to carefully prise trim strip off side panel (rear) -1- -arrow-.



Installing

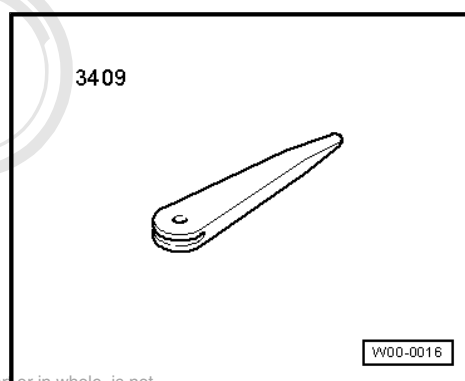
- Clean bonding surface on body with cleaning solution - D 009 401 04- .
- Peel protective film off adhesive strip -1-.
- Apply trim strip -3- with locating lugs -4- at B-pillar; then press remaining locating lugs into mounting -arrows-.
- The locating lugs position the trim strip correctly on the side panel (rear).
- Press trim strip onto side panel (rear) -2- over entire length.
- Leave vehicle standing at room temperature for at least 2 hours.



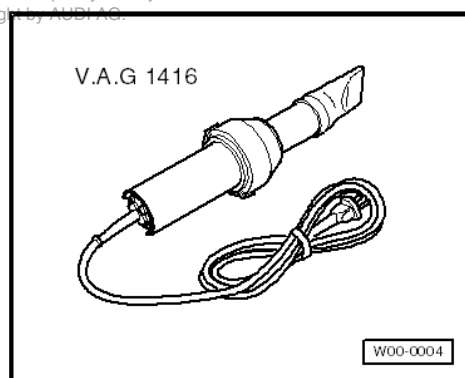
1.5 Removing and installing sill panel trim

Special tools and workshop equipment required

- ◆ Removal wedge - 3409-

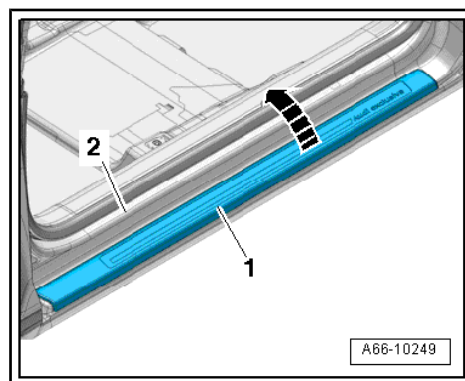


- ◆ Hot air blower - V.A.G 1416-



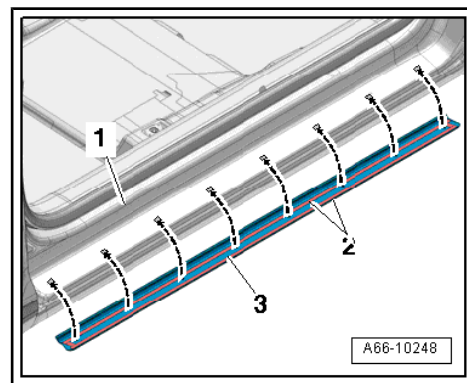
Removing

- Carefully heat sill panel trim -1- with hot air blower - V.A.G 1416- .
- Use removal wedge - 3409- to carefully prise sill panel trim off sill panel -2- -arrow-.



Installing

- Clean bonding surface on body with cleaning solution - D 009 401 04- .
- Peel protective film off adhesive strip -2-.
- Fit sill panel trim -3- on sill panel -1-, making sure that locating lugs are pressed into mountings -arrows-.
- Press sill panel trim onto sill panel over entire length.
- Leave vehicle standing at room temperature for at least 2 hours.



1.6 Removing and installing trim cover for convertible roof compartment trim strip

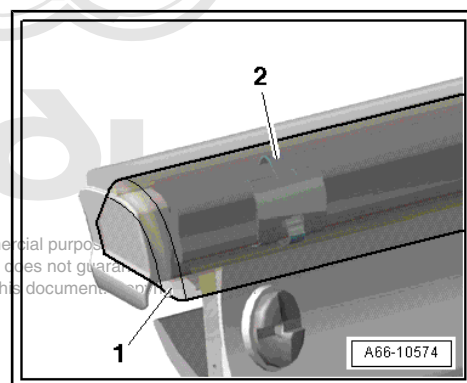
Removing

- Protect side panel with adhesive strip to prevent damage.
- Starting at B-pillar and working from side, pull trim cover -1- (transparent in illustration) with retaining clips -2- off window slot trim strip.



WARNING

When pulling out the trim cover, hold the retaining clips down with your thumbs to prevent them from jumping out.



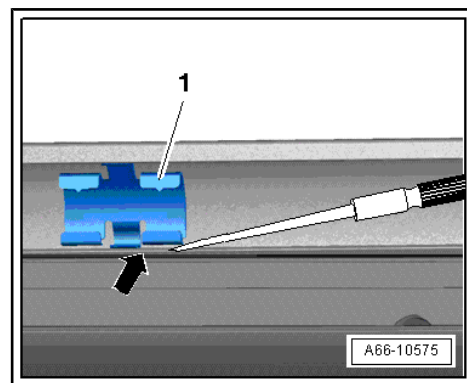
- Prise retaining clips -1- out of bottom of trim cover using a scribe.
- To do so, slide in scribe lengthwise at bottom -arrow- until retaining clip is pressed out of trim cover.

Installing

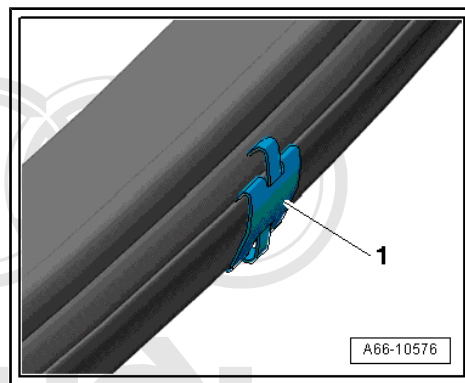


Note

- ◆ Make sure retaining clips are positioned correctly; otherwise trim covers cannot be pressed on.
- ◆ If the window slot trim strip or the convertible roof compartment trim strip is damaged at the attachment points for the retaining clips (e.g. pulled out) during removal, the retaining clip must be repositioned slightly to one side during installation.



- Attach retaining clips -1- at same location on window slot trim strip/convertible roof compartment trim strip with longer side of hook facing upwards.
- First slide trim cover onto retaining clips from below, then press it on from top and the sides.
- Press trim cover completely into retaining clips.



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2 Exterior mirrors

2.1 Exploded view - exterior mirror - vehicles up to 05.2009

1 - Bolt

- ☐ 2x
- ☐ 1 Nm

2 - Cover

- ☐ For mounting for mirror adjustment unit
- ☐ Removing and installing
⇒ [page 177](#)

3 - Turn signal repeater

- ☐ Removing and installing
⇒ Rep. gr. 94

4 - Housing for exterior mirror

- ☐ Removing and installing
⇒ [page 177](#)

5 - Not installed

6 - Mounting for mirror adjustment unit

- ☐ Removing and installing
⇒ [page 177](#)

7 - Seal

8 - Bolt

- ☐ 10 Nm

9 - Bolt

- ☐ 1 Nm

10 - Mirror adjustment unit

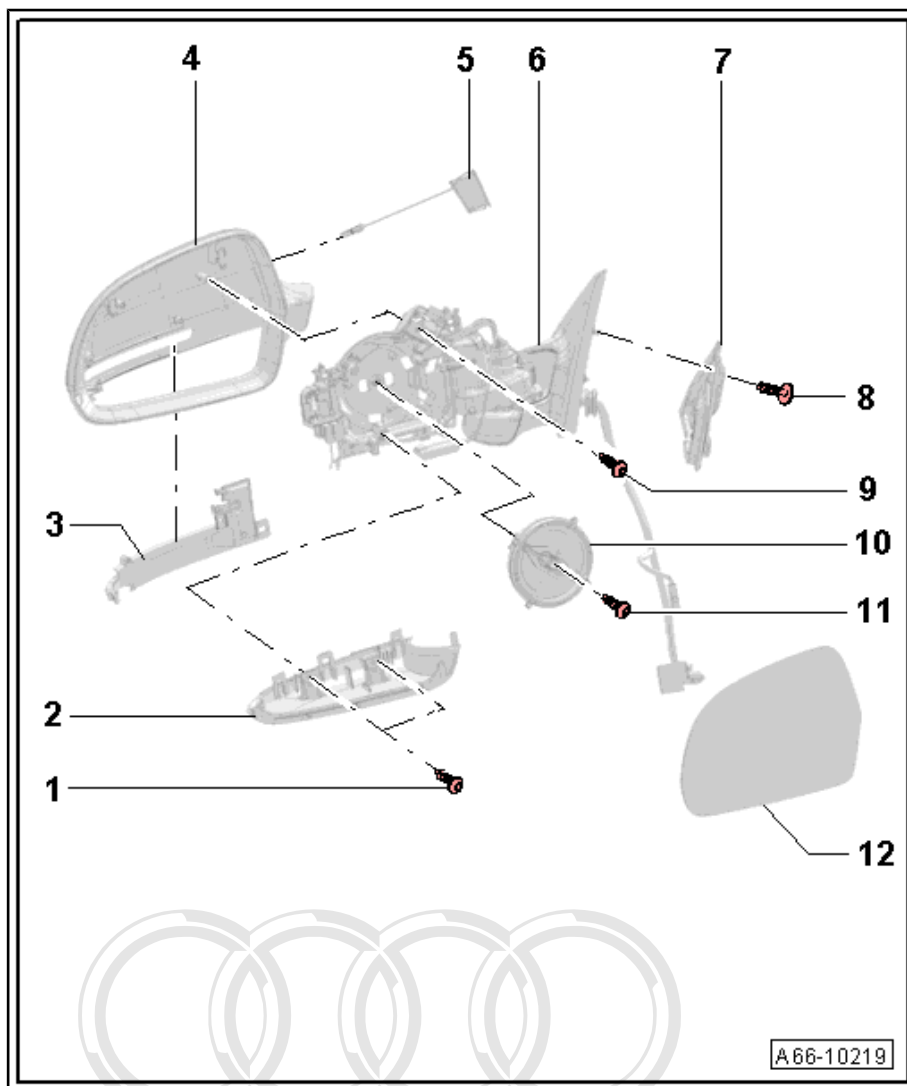
- ☐ Removing and installing
⇒ [page 179](#)

11 - Bolt

- ☐ 1.5 Nm

12 - Mirror glass

- ☐ Removing and installing ⇒ [page 175](#)

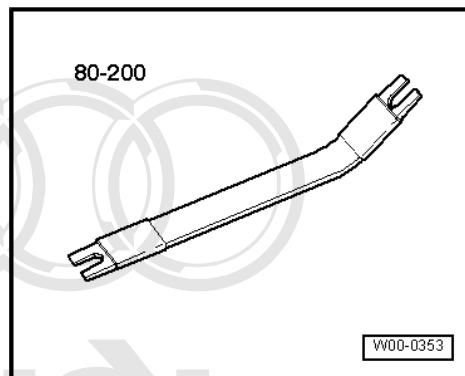


2.2 Removing and installing mirror glass

Special tools and workshop equipment required

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◆ Removal lever - 80 - 200-



◆ Protective gloves

Removing



WARNING

Risk of injury.

- ◆ *Wear protective gloves.*

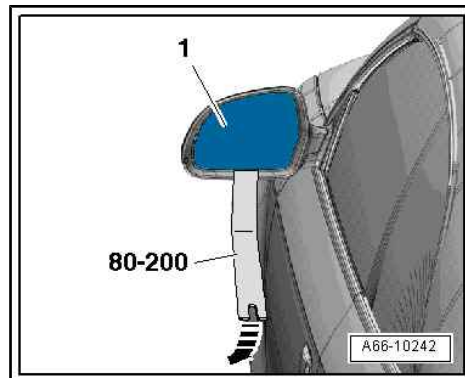
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Note

Mask the area around the mirror housing with a soft cloth to protect the paintwork.

- Use removal lever - 80 - 200- to press mirror glass -1- off mirror adjustment unit -arrow-.

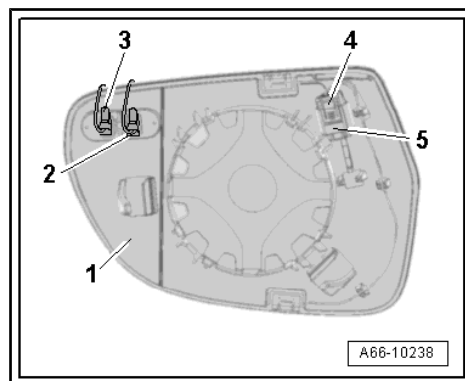


- Unplug electrical connectors -2- and -3- for mirror glass heating on rear of mirror glass -1-.
- If fitted, unclip electrical connector -5- from bracket.
- Unplug electrical connector -4-.

Installing

Install in reverse order of removal; note the following:

- Position mirror glass at mirror adjustment unit and press mirror glass on.



Note

Only exert pressure in the centre of the mirror when pressing on the mirror glass.

2.3 Removing and installing housing for exterior mirror

Removing

- Remove mirror glass ⇒ [page 175](#) .



Note

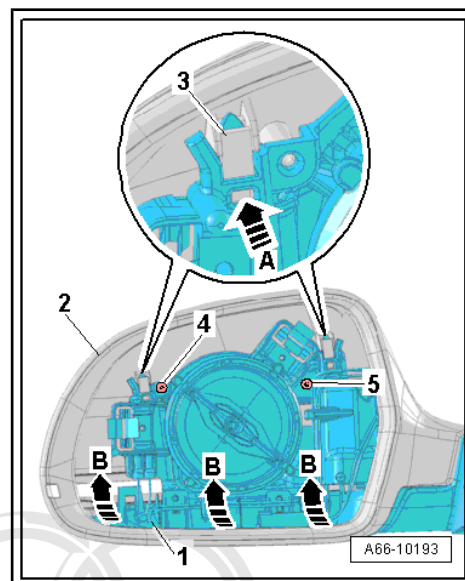
Mask the area around the mirror housing with a soft cloth to protect the paintwork.

- Remove bolts -4- and -5-.
- Release retaining tabs -3- in direction of -arrow A-.
- Release retaining clip -1- and detach exterior mirror housing from cover -2- -arrows B-.
- Press mirror adjustment unit down and pull exterior mirror housing up.
- Unplug electrical connector from turn signal repeater.
- Detach turn signal repeater from exterior mirror housing ⇒ Rep. gr. 94 .

Installing

- Tightening torque ⇒ [page 175](#)

Install in reverse order of removal.



2.4 Removing and installing cover for mounting for mirror adjustment unit

Removing

- Remove exterior mirror housing ⇒ [page 177](#) .
- Remove bolts -arrows-.
- Disengage retaining tab -2- and remove cover -1- from mounting for mirror adjustment unit.

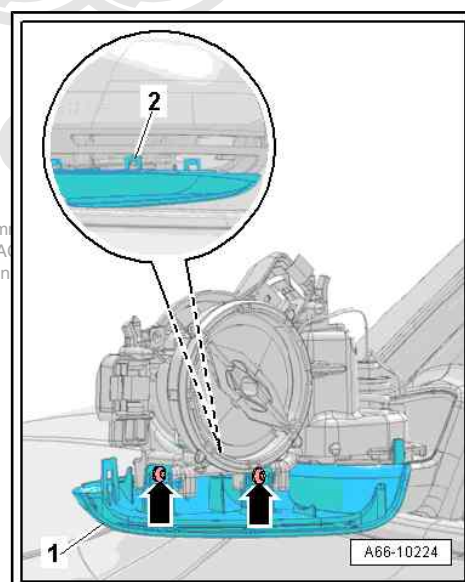
Installing

- Tightening torque ⇒ [page 175](#)

Install in reverse order of removal; note the following:

- Install exterior mirror housing ⇒ [page 177](#) .

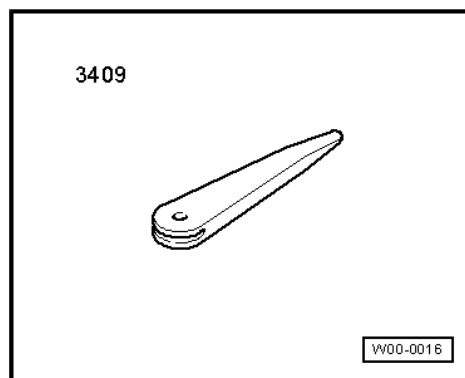
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2.5 Removing and installing mounting for mirror adjustment unit

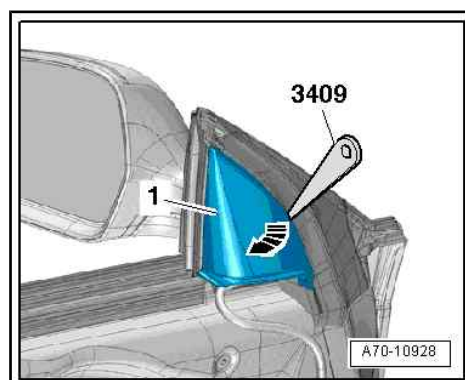
Special tools and workshop equipment required

◆ Removal wedge - 3409-



Removing

- Remove door trim ⇒ Rep. gr. 70 .
- Use removal wedge - 3409- to carefully prise trim -1- for mirror base off bracket -arrow- and detach.



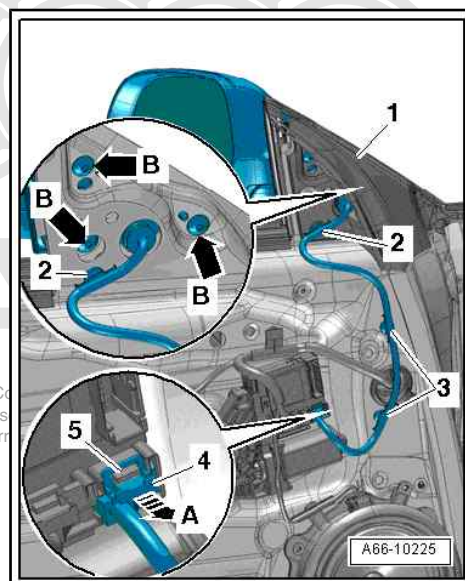
- Pull catch -4- towards rear -arrow A-, push release mechanism -5- downwards and unplug electrical connector.
- Unclip retainer -2- for cable tie -3- and move wiring harness clear; to do so, cut through cable tie.
- Lever grommet out of exterior mirror seal.
- Lift exterior mirror seal -1- off door shell and at the same time unscrew bolts -arrows B-.
- Detach mounting for mirror adjustment unit and at the same time guide wiring harness out through opening in body.

Installing

- Tightening torque ⇒ [page 175](#)

Install in reverse order of removal; note the following:

- Install exterior mirror seal.
- Install trim for mirror base ⇒ Rep. gr. 70 .
- Install door trim ⇒ Rep. gr. 70 .



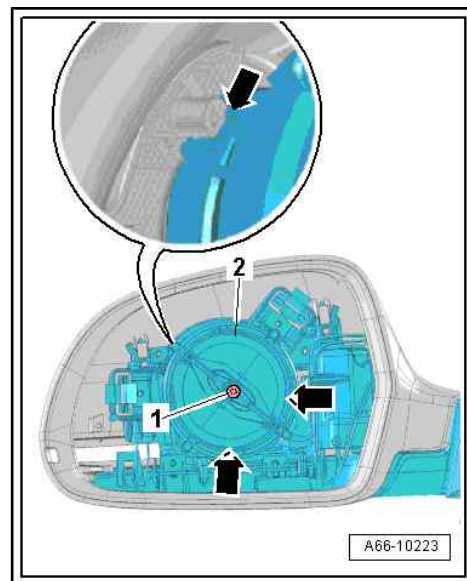
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2.6 Removing and installing mirror adjustment unit

Removing

- Remove mirror glass ➔ [page 175](#) .
- Unscrew bolt -1- for mirror adjustment unit -2-.
- Release retaining tabs -arrows- and detach mirror adjustment unit.



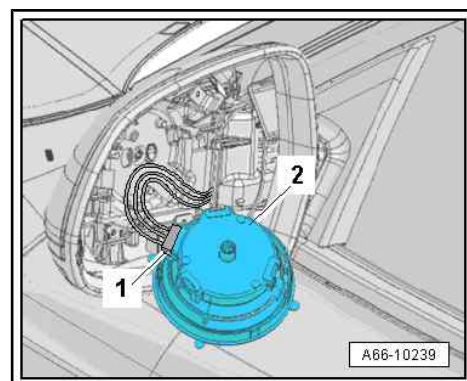
- Unplug electrical connector -1- at mirror adjustment unit -2-.

Installing

- Tightening torque ➔ [page 175](#)

Install in reverse order of removal; note the following:

- Press mirror adjustment unit onto mirror mounting until it engages audibly.



2.7 Exploded view - exterior mirror (vehicles from 06.2009 onwards)



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1 - Bolt

- ☐ 2x
- ☐ 1 Nm

2 - Cover

- ☐ For mounting for mirror adjustment unit
- ☐ Removing and installing ⇒ [page 183](#)

3 - Turn signal repeater

- ☐ Removing and installing ⇒ Electrical system; Rep. gr. 94

4 - Housing for exterior mirror

- ☐ Removing and installing ⇒ [page 182](#)

5 - Lane change assist warning lamp in exterior mirror

- ☐ Removing and installing ⇒ Electrical system; Rep. gr. 96

6 - Mounting for mirror adjustment unit

- ☐ Removing and installing ⇒ [page 183](#)

7 - Sealing piece

8 - Bolt

- ☐ 10 Nm

9 - Mirror adjustment unit

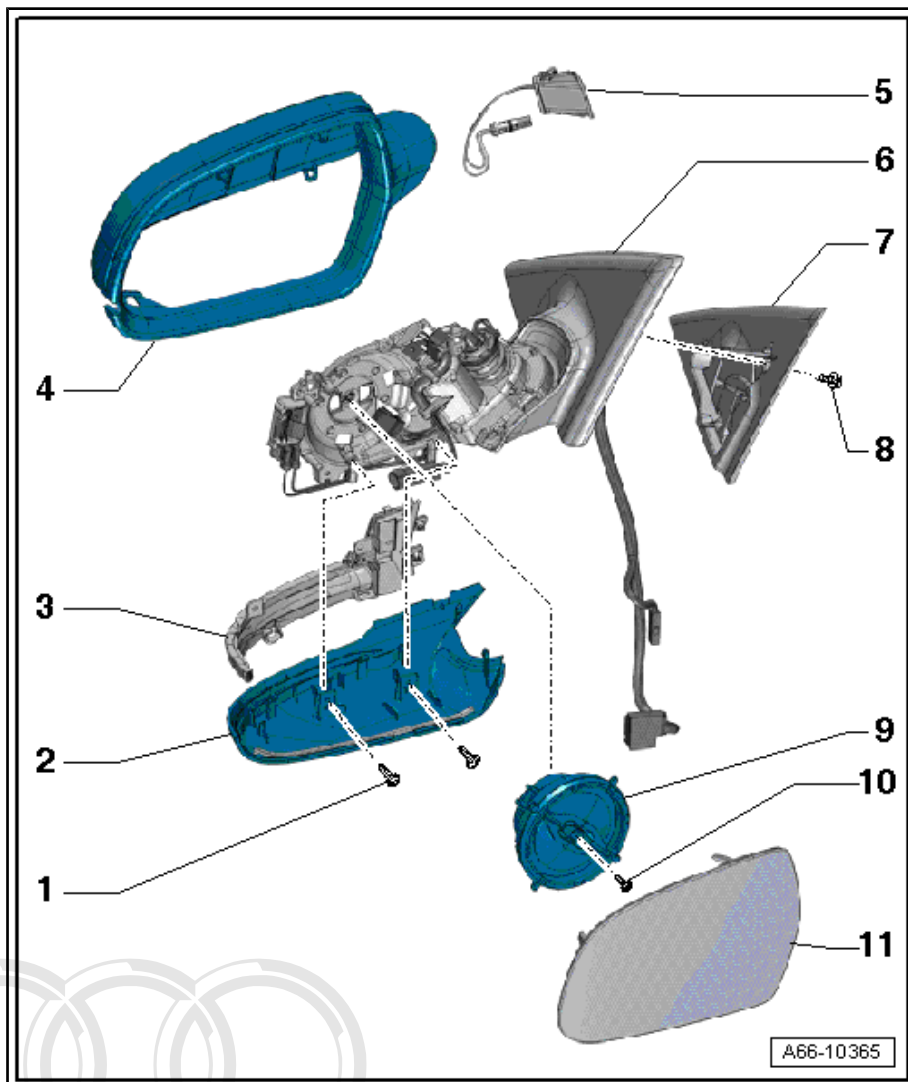
- ☐ Removing and installing ⇒ [page 184](#)

10 - Bolt

- ☐ 1 Nm

11 - Mirror glass

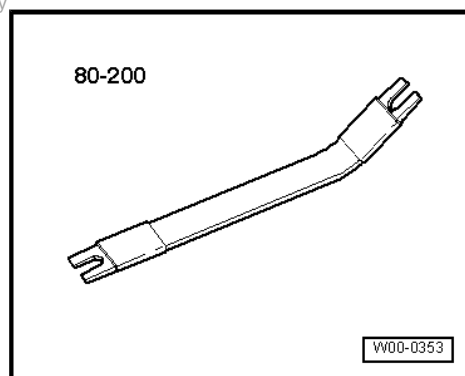
- ☐ Removing and installing ⇒ [page 180](#)



2.8 Removing and installing mirror glass

Special tools and workshop equipment required

- ◆ Removal lever 80-200



- ◆ Protective gloves

Removing



WARNING

Risk of injury.

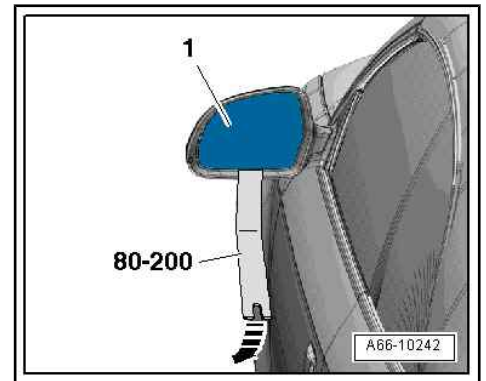
◆ *Wear protective gloves.*



Note

Mask the area around the mirror housing with a soft cloth to protect the paintwork.

- Use removal lever - 80 - 200- to press mirror glass -1- off mirror adjustment unit -arrow-.

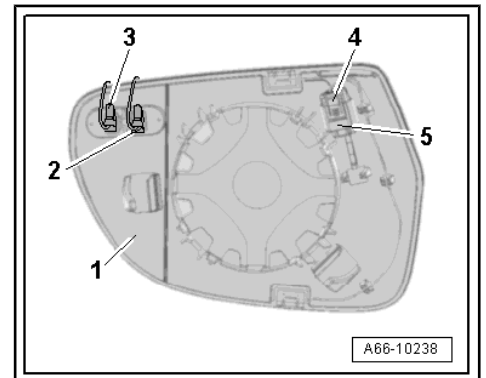


- Unplug electrical connectors -2- and -3- for mirror glass heating on rear of mirror glass -1-.
- If fitted, unclip electrical connector -5- from bracket.
- Unplug electrical connector -4-.

Installing

Install in reverse order of removal; note the following:

- Position mirror glass at mirror adjustment unit and press mirror glass on.



Note

Only exert pressure in the centre of the mirror when pressing on the mirror glass.

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2.9 Removing and installing housing for exterior mirror

Removing

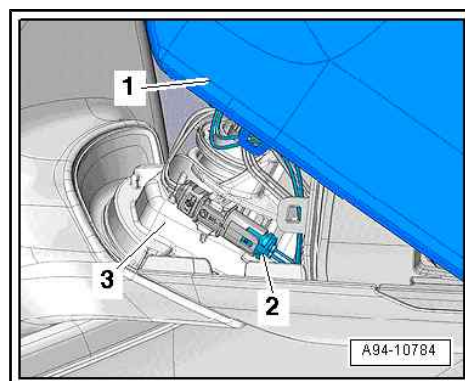
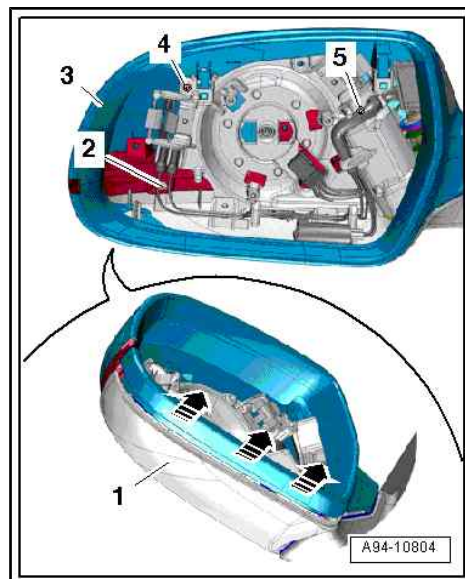
- Remove mirror adjustment unit ⇒ [page 184](#) .



Note

Mask the area around the mirror housing with a soft cloth to protect the paintwork.

- Remove bolts -4- and -5-.
- Release retaining clip -2- and detach exterior mirror housing -3- from cover -1- -arrows-.
- On vehicles with lane change assist function, pull exterior mirror housing -1- off only to the extent that electrical connector becomes visible.
- Unplug electrical connector -2- for lane change assist warning lamp on front of mounting -3- for mirror adjustment unit.



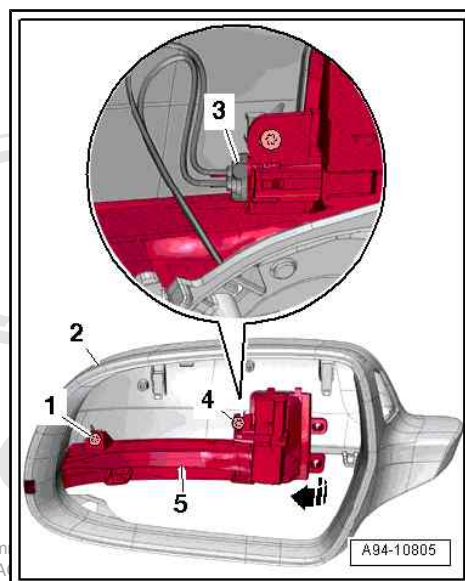
- Lift off exterior mirror housing -2- and unplug electrical connector -3-.
- Remove bolts -1- and -4-.
- Swivel housing -5- for turn signal bulb out of exterior mirror housing -arrow-.

Installing

- Tightening torque ⇒ [page 179](#)

Install in reverse order of removal; note the following:

- Install exterior mirror turn signal bulb ⇒ Rep. gr. 94 .



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2.10 Removing and installing cover for mounting for mirror adjustment unit

Removing

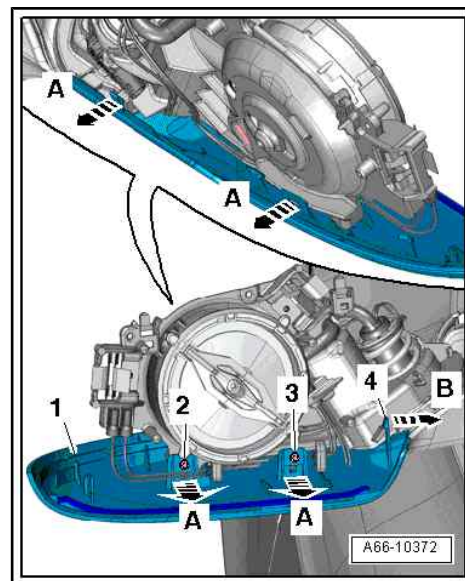
- Remove exterior mirror housing ⇒ [page 182](#) .
- Remove bolts -2- and -3-.
- Disengage retaining tabs and retaining hooks -arrows A-.
- Press down cover -1- to the extent that retaining tabs do not become engaged automatically and then disengage retaining hook -4- -arrow B-.
- Detach cover from mounting for mirror adjustment unit.

Installing

- Tightening torque ⇒ [page 179](#)

Install in reverse order of removal; note the following:

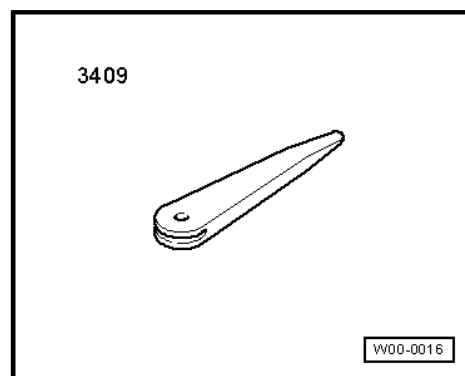
- Install exterior mirror housing ⇒ [page 182](#) .



2.11 Removing and installing mounting for mirror adjustment unit

Special tools and workshop equipment required

- ◆ Removal wedge - 3409-



Removing

- Remove door trim ⇒ Rep. gr. 70 .
- Remove trim and bracket for treble loudspeaker ⇒ Rep. gr. 70 .



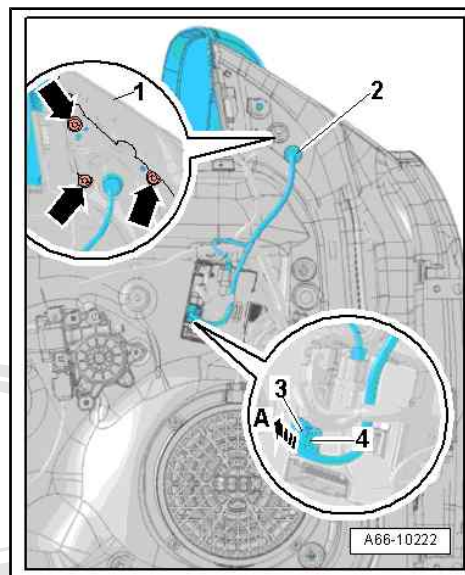
- Pull catch -3- towards rear -arrow A-, push release mechanism -4- downwards and unplug electrical connector.
- Lever grommet -2- out of exterior mirror seal.
- Detach retaining lugs from door shell in area of exterior mirror.
- Lift exterior mirror seal -1- off door shell and at the same time unscrew bolts -arrows-.
- Detach mounting for mirror adjustment unit and at the same time guide wiring harness out through door opening.

Installing

- Tightening torque ⇒ [page 179](#)

Install in reverse order of removal; note the following:

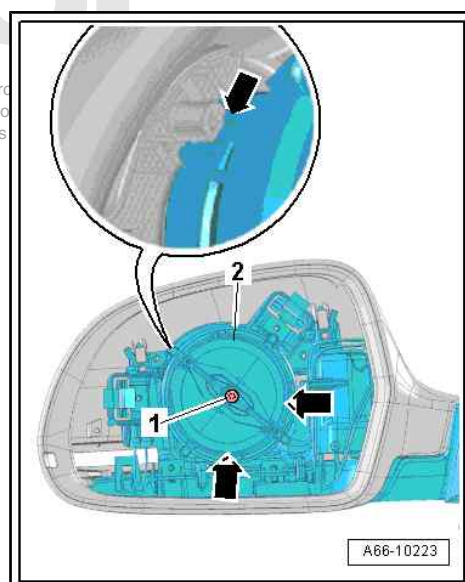
- Install bracket and trim for treble loudspeaker ⇒ Rep. gr. 70 .
- Install door trim ⇒ Rep. gr. 70 .



2.12 Removing and installing mirror adjustment unit

Removing

- Remove mirror glass ⇒ [page 180](#).
- Unscrew bolt -1- for mirror adjustment unit -2-.
- Release retaining tabs -arrows- and detach mirror adjustment unit.



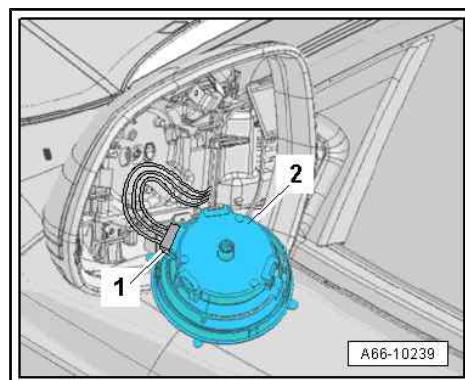
- Unplug electrical connector -1- at mirror adjustment unit -2-.

Installing

- Tightening torque ⇒ [page 179](#)

Install in reverse order of removal; note the following:

- Press mirror adjustment unit onto mirror mounting until it engages audibly.

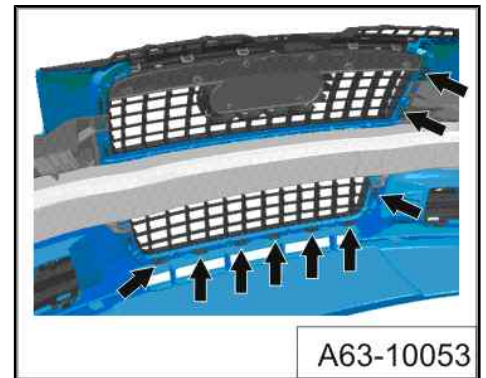


3 Radiator grille

3.1 Removing and installing radiator grille

Removing radiator grille

- Bumper cover removed
- Release retaining hooks -arrows- fully on bumper cover.
- Pull radiator grille forwards out of bumper cover.



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4 Underbody trim

4.1 Removing and installing noise insulation

1 - Bolt

- ☐ 20 Nm
- ☐ 4x

2 - Bolt

- ☐ 8 Nm
- ☐ 15x

3 - Noise insulation

- ☐ To remove, unscrew bolts -1-, -2- and -6- and detach noise insulation.
- ☐ When installing, observe different tightening torques.

4 - Duct

- ☐ To remove, unscrew bolts -5-

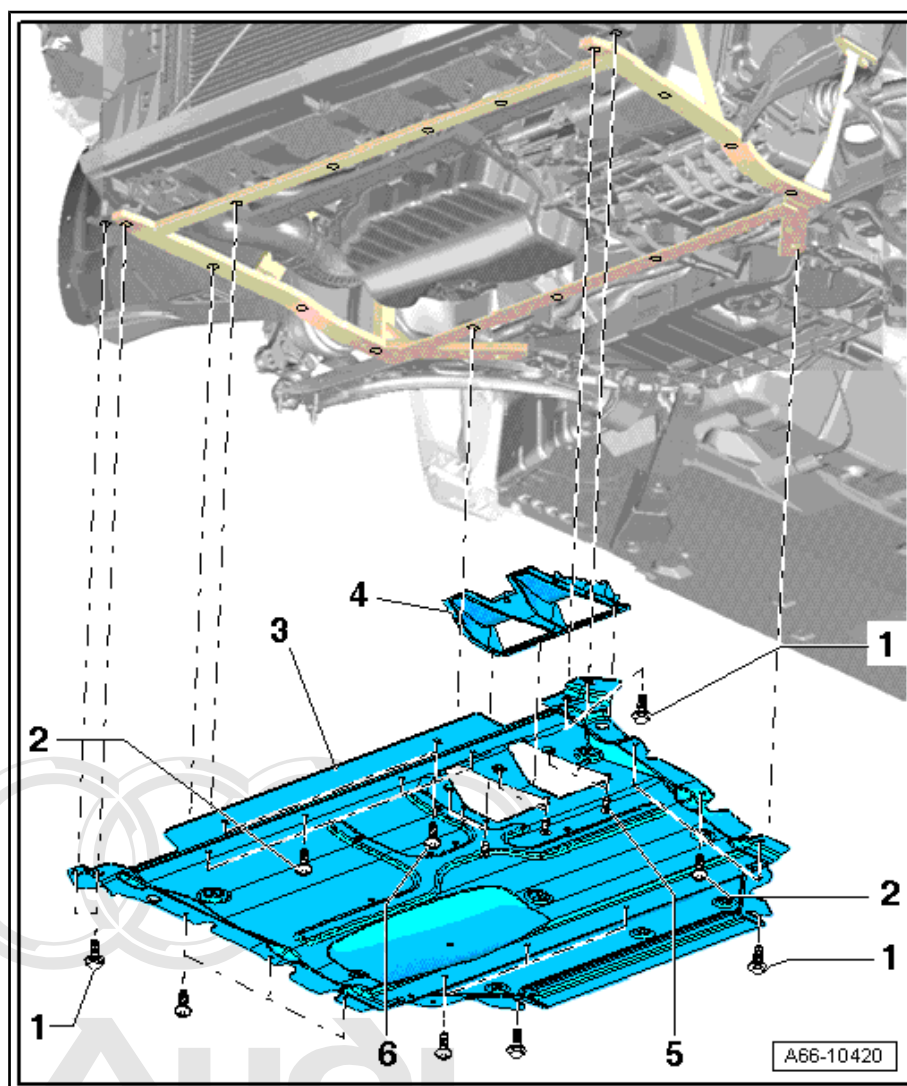
5 - Bolt

- ☐

1 Nm

6 - Bolt

- ☐ 3 Nm



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4.2 Exploded view - covers and heat shields

Floor trim covers

1 - Bolt

- 2 Nm

2 - Front cover (left-side)

- For underbody
- Removing and installing
⇒ [page 189](#)

3 - Bolt

- 2 Nm

4 - Outer cover (left-side)

- For underbody
- Removing and installing
⇒ [page 189](#)

5 - Bolt

- 2 Nm

6 - Centre cover (left-side)

- For underbody
- Removing and installing
⇒ [page 190](#)

7 - Bolt

- 1.8 Nm

8 - Rear cover (left-side)

- For floor trim
- Removing and installing
⇒ [page 190](#)

9 - Bolt

- 2 Nm

10 - Nut

- Permanently attached
- 2 Nm

11 - Rear cover (right-side)

- For floor trim
- Removing and installing ⇒ [page 190](#)

12 - Bolt

- 1.8 Nm

13 - Bolt

- 2 Nm

14 - Centre cover (right-side)

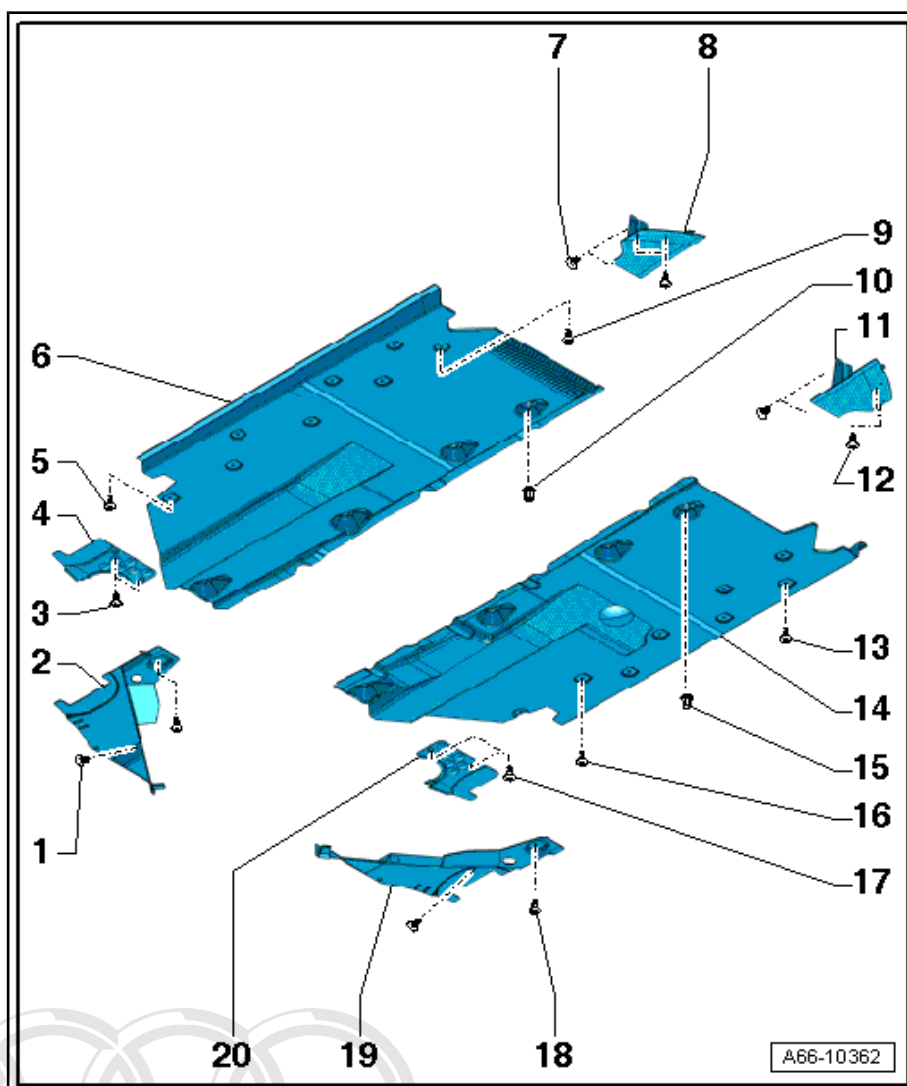
- For underbody
- Removing and installing ⇒ [page 190](#)

15 - Nut

- Permanently attached
- 2 Nm

16 - Bolt

- 2 Nm



17 - Bolt

- ☐ 2 Nm

18 - Bolt

- ☐ 2 Nm

19 - Front cover (right-side)

- ☐ For underbody
- ☐ Removing and installing ⇒ [page 189](#)

20 - Outer cover (right-side)

- ☐ For underbody
- ☐ Removing and installing ⇒ [page 189](#)

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Heat shields and cross members for underbody

1 - Nut

- ☐ 23 Nm

2 - Cross member for underbody (front)

- ☐ Removing and installing ⇒ [page 191](#)

3 - Clamping washer

4 - Clamping washer

5 - Heat shield for centre tunnel

- ☐ Removing and installing ⇒ [page 191](#)

6 - Bolt

- ☐ Tightening torque ⇒ Rep. gr. 26

7 - Heat shield for centre silencer

- ☐ Removing and installing ⇒ [page 192](#)

8 - Bolt

- ☐ Tightening torque ⇒ Rep. gr. 26

9 - Heat shield for rear silencer

- ☐ Removing and installing ⇒ [page 192](#)

10 - Bolt

- ☐ 23 Nm

11 - Clamping washer

12 - Clamping washer

13 - Bolt

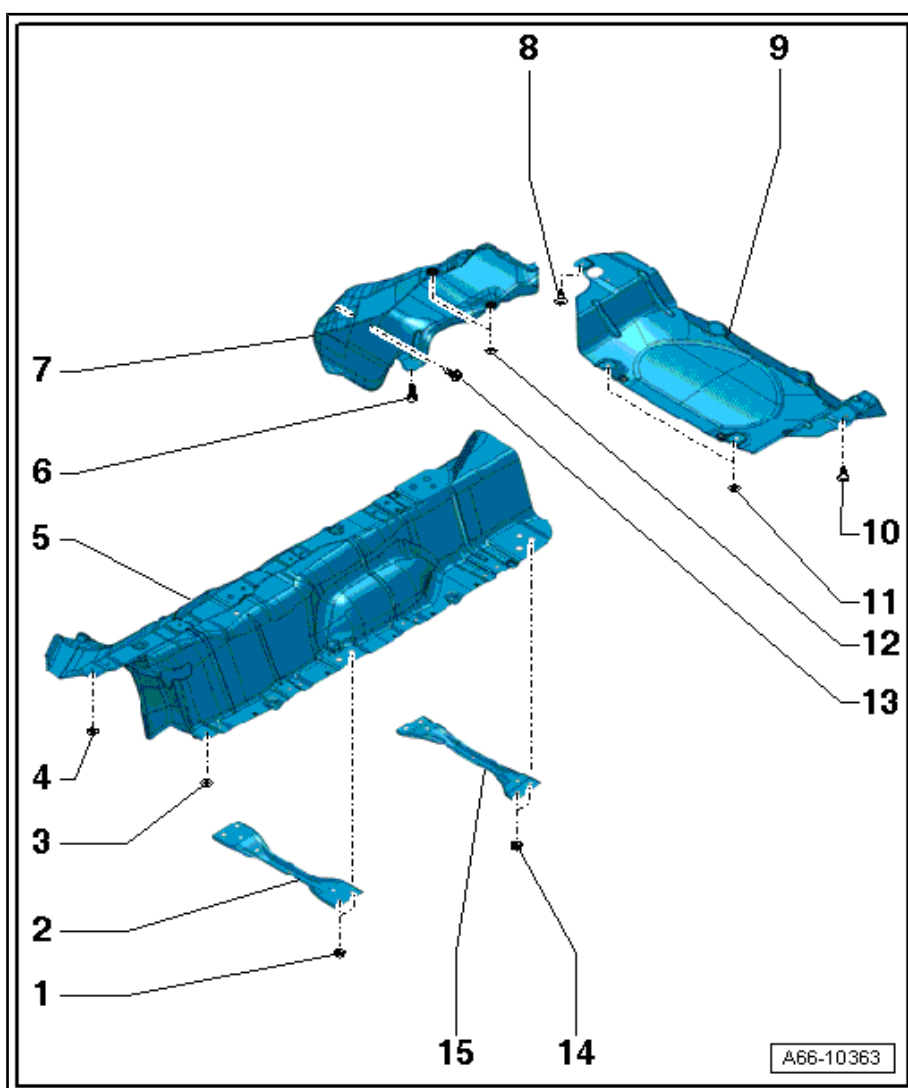
- ☐ 2 Nm

14 - Nut

- ☐ 23 Nm

15 - Cross member for underbody (rear)

- ☐ Removing and installing ⇒ [page 191](#)



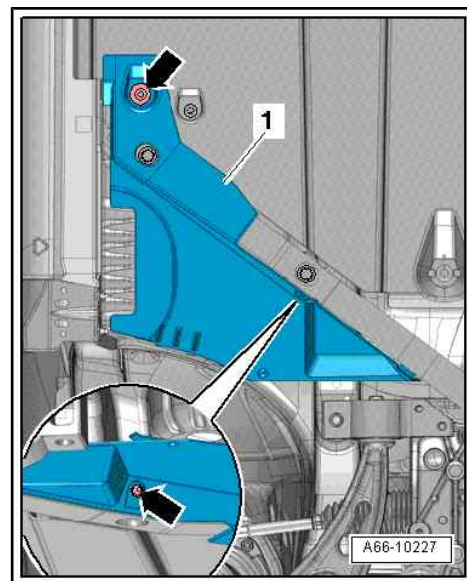
4.3 Removing and installing underbody cover (front)

Removing

- Remove bolts -arrows-.
- Detach underbody cover (front) -1-.

Installing

- Tightening torques ➔ [page 187](#)
- Install in reverse order of removal.



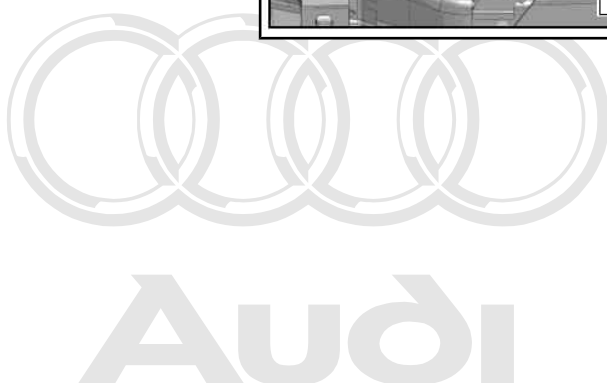
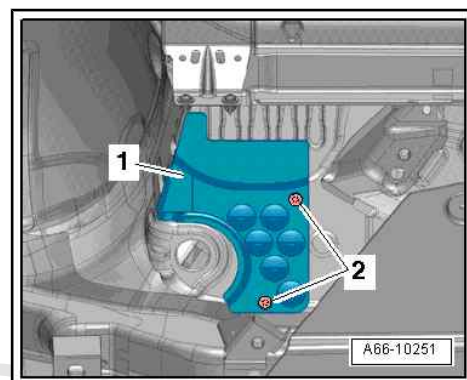
4.4 Removing and installing outer underbody cover

Removing

- Remove underbody cover (front) ➔ [page 189](#).
- Remove bolts -2-.
- Detach outer underbody cover -1-.

Installing

- Tightening torques ➔ [page 187](#)
- Install in reverse order of removal.



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4.5 Removing and installing underbody cover (centre)

Removing

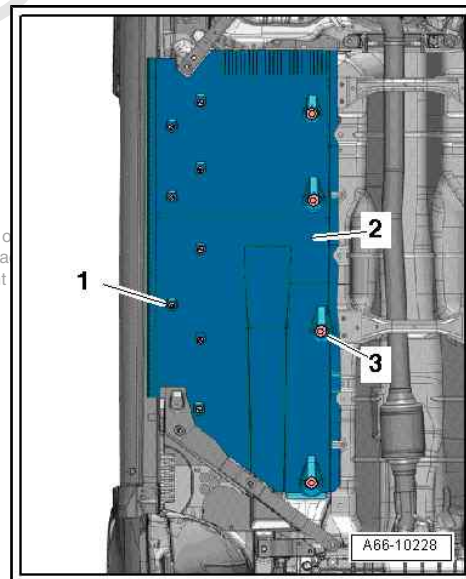
- Remove bolts -1- and nuts -3-.
- Detach underbody cover (centre) -2-.

Installing

- Tightening torques ⇒ [page 187](#)

Install in reverse order of removal.

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4.6 Removing and installing floor trim cover (rear)

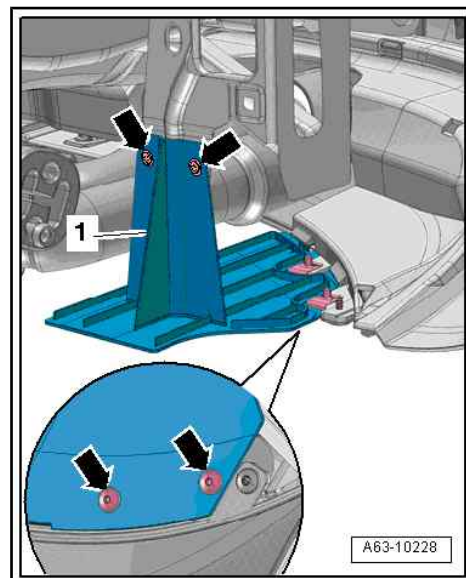
Removing

- Remove bolts -arrows-.
- Detach floor trim cover (rear) -1-.

Installing

- Tightening torque ⇒ [Item 12 \(page 187\)](#)

Install in reverse order of removal.



4.7 Removing and installing cross member for underbody

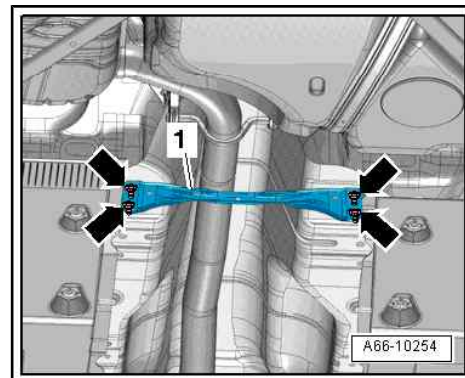
Removing

- Unscrew nuts -arrows-.
- Detach cross member -1- for underbody.

Installing

- Tightening torques ➔ [page 187](#)

Install in reverse order of removal.



4.8 Removing and installing heat shield for centre tunnel

Removing

- Disconnect exhaust system from centre silencer ➔ Rep. gr. 26 .



Caution

Risk of damage to flexible joints.

- ◆ *Do not kink flexible joints in front exhaust pipe more than 10°.*

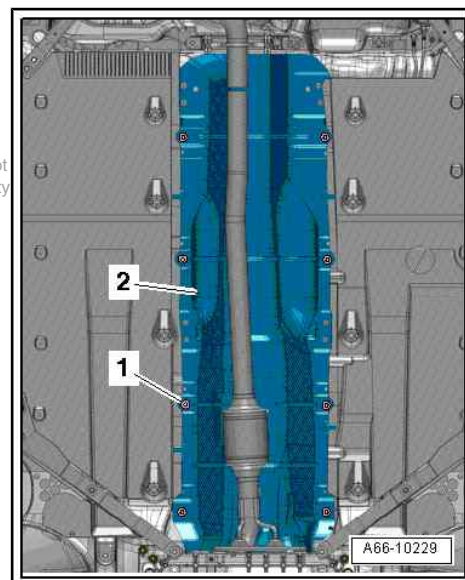
- Tie up exhaust system to body.
- Remove cross member for underbody ➔ [page 191](#) .
- Remove clamping washers -1-.
- Pull out heat shield -2- for centre tunnel towards rear.

Installing

- Tightening torques ➔ [page 187](#)

Install in reverse order of removal.

- Install cross member for underbody ➔ [page 191](#) .
- Install exhaust system ➔ Rep. gr. 26 .



4.9 Removing and installing heat shield for centre silencer

Removing

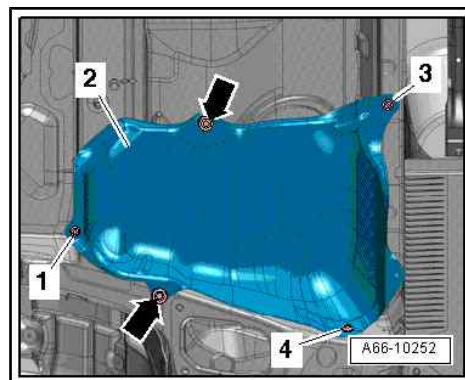
- Remove centre silencer ⇒ Rep. gr. 26 .
- Remove mounting for exhaust system ⇒ Rep. gr. 26 .
- Remove bolts -1, 3, 4- and clamping washers -arrows-.
- Detach heat shield -2- for centre silencer.

Installing

- Tightening torques ⇒ [page 187](#)

Install in reverse order of removal; note the following:

- Install mounting for exhaust system ⇒ Rep. gr. 26 .
- Install centre silencer ⇒ Rep. gr. 26 .



4.10 Removing and installing heat shield for rear silencer

Removing

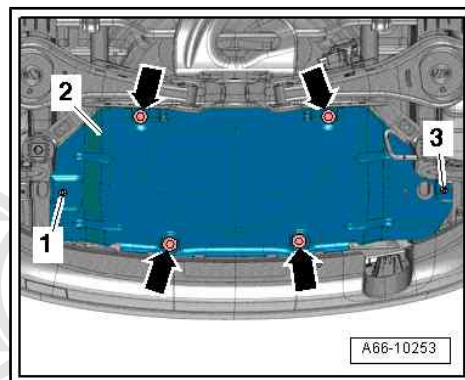
- Remove rear silencer ⇒ Rep. gr. 26 .
- Remove mounting for exhaust system ⇒ Rep. gr. 26 .
- Remove bolts -1- and -3- and clamping washers -arrows-.
- Detach heat shield -2- for rear silencer.

Installing

- Tightening torques ⇒ [page 187](#)

Install in reverse order of removal; note the following:

- Install mounting for exhaust system ⇒ Rep. gr. 26 .
- Install rear silencer ⇒ Rep. gr. 26 .




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5 Wheel housing liners

5.1 Exploded view - wheel housing liner (front)

1 - Wing

2 - Panel bolts

□ 2 Nm

3 - Panel bolt

□ 2 Nm

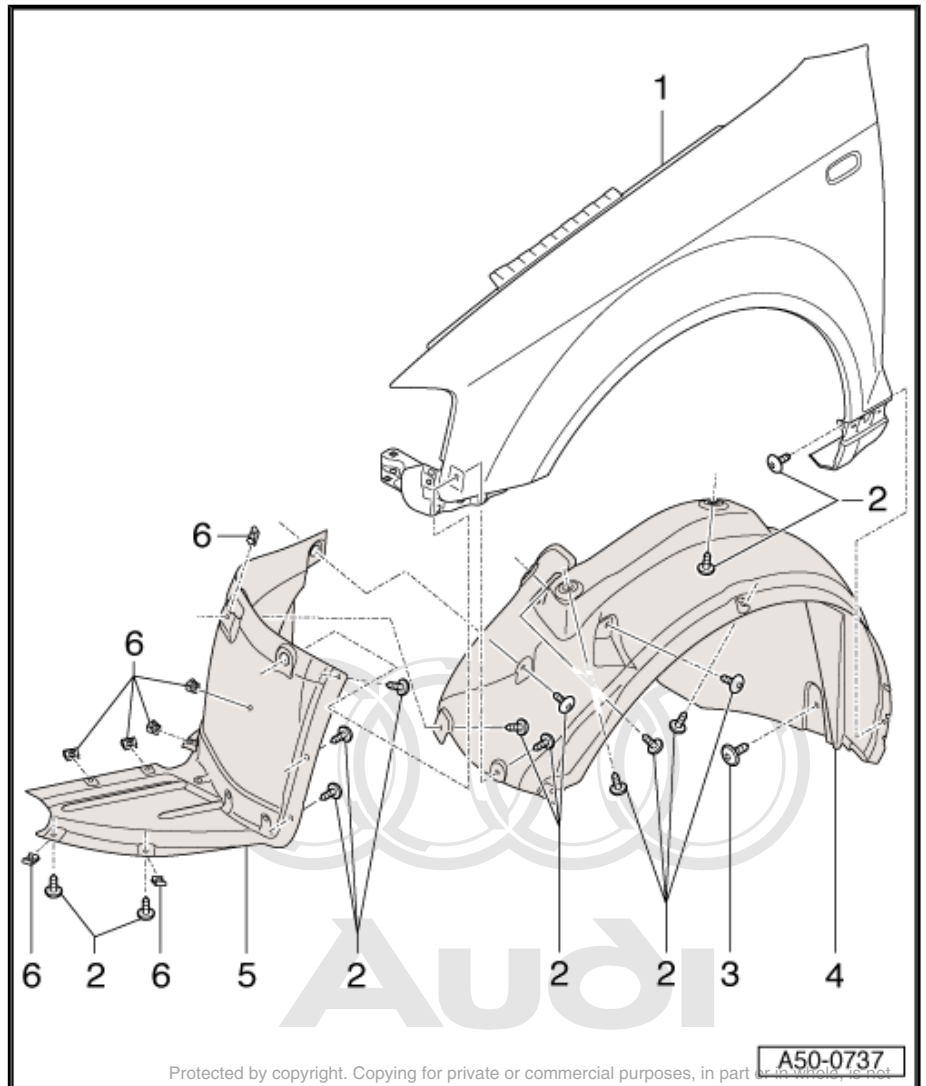
4 - Rear section of wheel housing liner (front)

□ Unscrew Torx bolts -2- and -3-; lightly press together wheel housing liner and remove.

5 - Front section of wheel housing liner (front)

6 - Speed nut

□ Pushed sideways onto wheel housing liner



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A50-0737

5.2 Exploded view - wheel housing liner (rear)

1 - Bolt

☐ 1.8 Nm

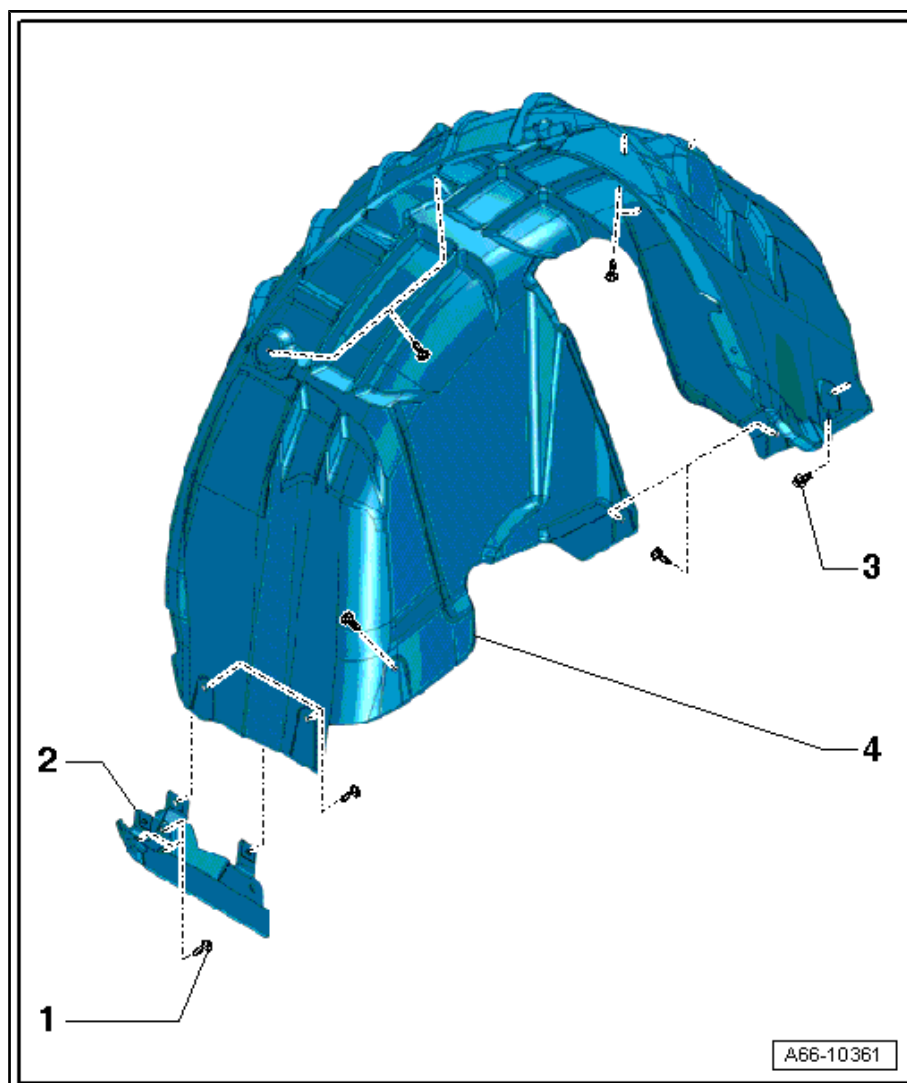
2 - Wheel spoiler

☐ Removing and installing
⇒ [page 195](#)

3 - Bolt

☐ 1.8 Nm

4 - Wheel housing liner (rear)

☐ Removing and installing
⇒ [page 195](#)


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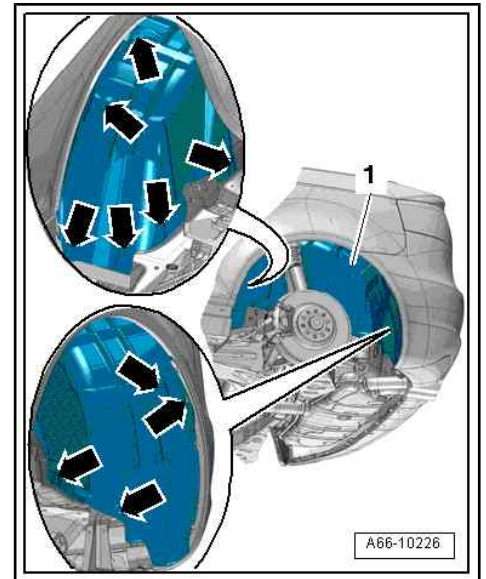
5.3 Removing and installing wheel housing liner (rear)

Removing

- Rear wheel removed
- Remove bolts -arrows-.
- Take out wheel housing liner -1-.

Installing

- Tightening torques ➔ [page 194](#)
- Install in reverse order of removal.



5.4 Removing and installing wheel spoiler

Removing

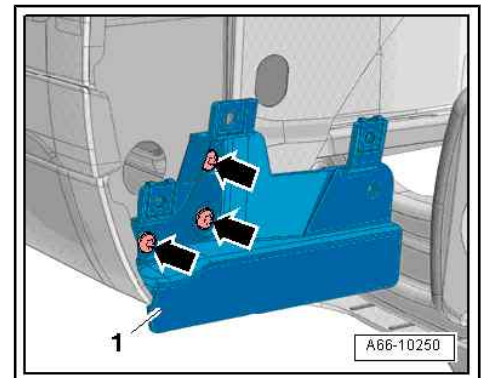
- Rear wheel removed
- Loosen front section of wheel housing liner (rear) and press to the side ➔ [page 195](#).
- Remove bolts -arrows-.
- Detach wheel spoiler -1-.

Installing

- Tightening torques ➔ [page 194](#)

Install in reverse order of removal; note the following:

- Install wheel housing liner (rear) ➔ [page 195](#).



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6 Model emblems

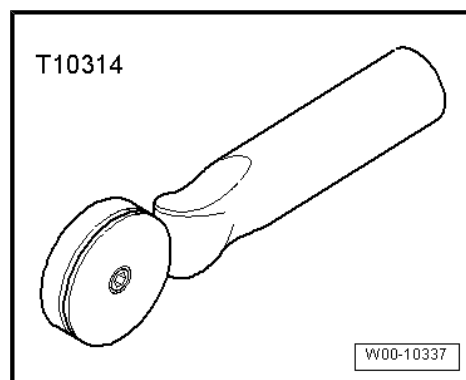


Caution

- ◆ *The bonding surfaces on the body must be free of dust and grease.*
- ◆ *Clean bonding surfaces with cleaning solution - D 009 401 04- .*
- ◆ *Heat the bonding surfaces and model emblems with a hot air blower to around 40°C.*
- ◆ *After attaching the model emblems, press them on firmly with roller - T10314- .*

Special tools and workshop equipment required

- ◆ Roller - T10314-



6.1 Dimensions for emblems

Rear lid



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