

Workshop Manual Audi A5 Sportback 2010 ➤

General body repairs, exterior

Edition 05.2016



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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 Notes on repairs

(ARL004562; Edition 05.2016)

⇒ [“1.1 Routing and attaching lines and wiring”, page 1](#)

⇒ [“1.2 Contact corrosion”, page 1](#)

⇒ [“1.3 Bonding surfaces for adhesive strips”, page 1](#)

1.1 Routing and attaching lines and wiring

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.

1.2 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 re-used, use new parts (refer to Electronic parts catalogue).

Please note:

- ◆ We recommend using genuine replacement parts only, as ~~these have been checked and are compatible with aluminium~~ is not permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability
- ◆ ~~We recommend using Audi Genuine Accessories~~ right by AUDI AG.
- ◆ Damage caused by contact corrosion is not covered by the warranty.

1.3 Bonding surfaces for adhesive strips

- ◆ The vehicle must be at room temperature before fitting e.g. self-adhesive covers or door seals with adhesive strips etc.
- ◆ Bonding surfaces on the body must be free of dust and grease.
- ◆ Clean bonding surfaces with cleaning solution - D 009 401 04- .
- ◆ Apply primer - D 355 205 A2- to bonding surfaces on body using applicator - D 009 500 25- and allow to flash off.
- ◆ Heat bonding surfaces with a hot air blower to approx. 40°C.
- ◆ After installation, press covers attached with adhesive strips on again using a roller.
- ◆ Subsequently, check that components are attached securely by pulling them with your hand.

50 – Body - front

1 Lock carrier

⇒ "1.1 Exploded view - lock carrier", page 2

⇒ "1.2 Setting service position and returning to normal position", page 3

⇒ "1.3 Removing and installing lock carrier brace", page 6

⇒ "1.4 Removing and installing lock carrier cover", page 7

1.1 Exploded view - lock carrier

1 - Bolt

- ☐ 30 Nm
- ☐ 3x on each side

2 - Impact bar

- ☐ Attached to lock carrier with bolt -3-
- ☐ Need not be detached with brackets when removing lock carrier.

3 - Bolt

- ☐ 4 Nm
- ☐ Used to secure impact bar to lock carrier

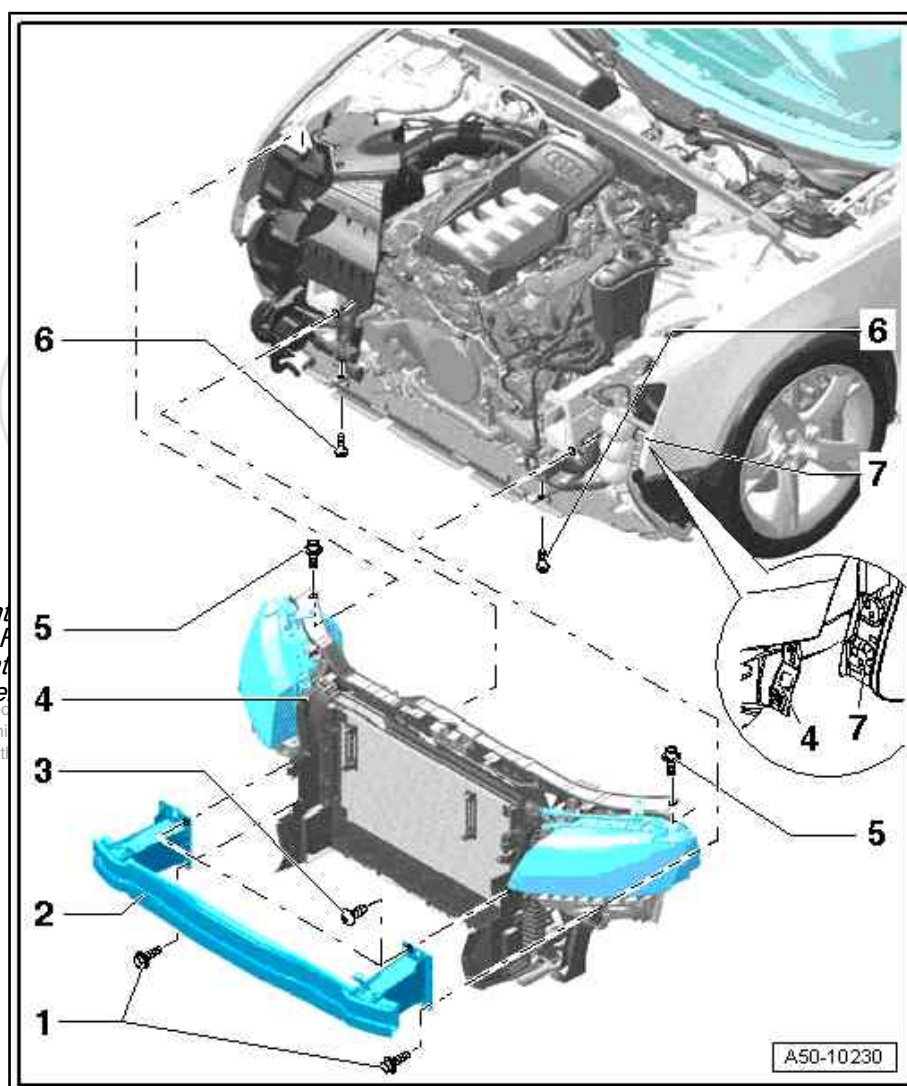
4 - Lock carrier



Note

Before removing, radiator must be drained off ⇒ [page 137](#).
Cooling system/coolant and filling cooling system

- ☐ Removing:
- ☐ Remove lock carrier cover.
- Remove bumper (front) ⇒ [page 137](#).
- Disconnect all electrical wires and hoses from lock carrier at connection points.
- Detach cable for bonnet lock at coupling unit ⇒ [page 18](#).
- Unscrew bolts -5-.
- Unscrew bolts -1- on longitudinal member (3x on each side).





Note

The impact bars with the brackets are secured to the lock carrier with one bolt -1- each and do not have to be removed.

- Remove bolts -6- from lock carrier (bottom).
- Detach lock carrier with headlights towards the front.
- ☐ Installing: in reverse order of removal
- ☐ After installing, headlights must be adjusted.

5 - Bolt

- ☐ 10 Nm

6 - Bolt

- ☐ 1.5 Nm

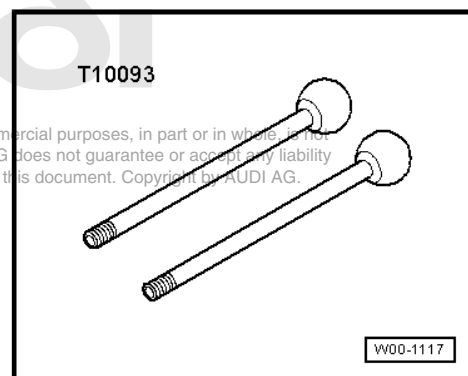
7 - Wing

1.2 Setting service position and returning to normal position

Special tools and workshop equipment required

- ◆ Guide pins - T10093-

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Note

- ◆ *No lines or circuits, e.g. for engine cooling, air conditioning etc., are disconnected or opened for the service position.*
- ◆ *When installing the lock carrier, take care not to trap or crush any wires or hoses at the attachment points.*

1 - Bolt

- 1.5 Nm

2 - Bolt

- Screw guide pins - T10093- into vacant threads on outer right and outer left sides.
- 30 Nm

3 - Bolt

- 10 Nm

4 - Lock carrier

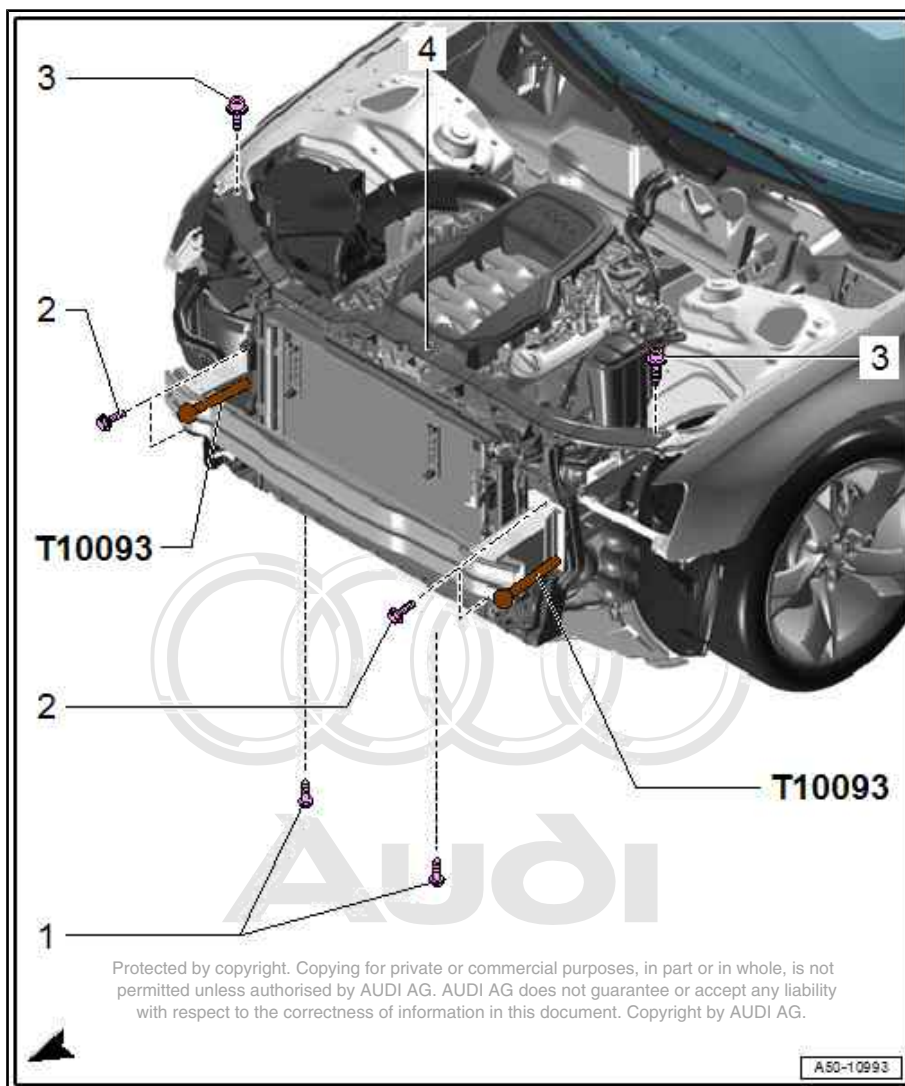
- Service position:



Caution

For vehicles equipped with adaptive cruise control (ACC), please observe the following:

If the lock carrier is removed and re-installed, or if modifications are made to the retainer for the »ACC«, the adaptive cruise control system will have to be adjusted ⇒ Running gear, axles, steering; Rep. gr. 44 ; Adaptive cruise control; Calibrating adaptive cruise control .



- Disconnect battery.
- Remove bumper (front) ⇒ [page 137](#) .
- Remove lock carrier cover (top) ⇒ [page 7](#) .
- Unscrew bolts securing noise insulation (bottom) to bumper.
- Disconnect Bowden cable for bonnet at coupling unit ⇒ [page 19](#) .
- Unscrew bolts from coolant expansion tank ⇒ [page 5](#) .
- Lift coolant expansion tank out of mounting.
- Unplug electrical connectors at headlights.
- On vehicles with charge air cooler, also disconnect pressure hoses.
- Unscrew bolts at bottom right and left of longitudinal member.
- Screw guide pins - T10093- into the now vacant outer threads (left and right).
- Unscrew remaining bolts.
- Pull lock carrier with coolant expansion tank towards front on guide pins, making sure you do not overstretch wiring.



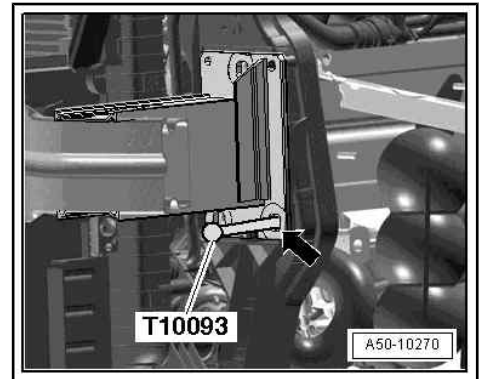
Caution

When returning lock carrier to its normal position take care not to crush or trap any wires.

- ☐ Install in reverse sequence.
- ☐ After installing, check headlight setting and adjust headlights if necessary.

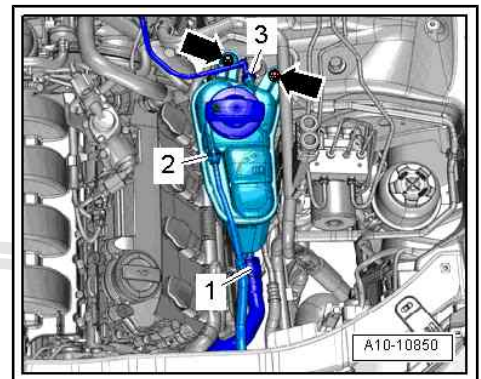
Screwing in guide pins - T10093-

- Screw guide pins into longitudinal member at retainer (bottom), as shown.



Detaching coolant expansion tank

- Before lock carrier can be pulled forwards, coolant expansion tank must be detached at nuts -arrows- and lifted out of grommet (bottom).
- When installing, tighten bolts to 5 Nm.



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1.3 Removing and installing lock carrier brace

1 - Bolt

- 1.5 Nm

2 - Lock carrier brace (left-side)

- Secured to subframe with nut -6-

3 - Lock carrier

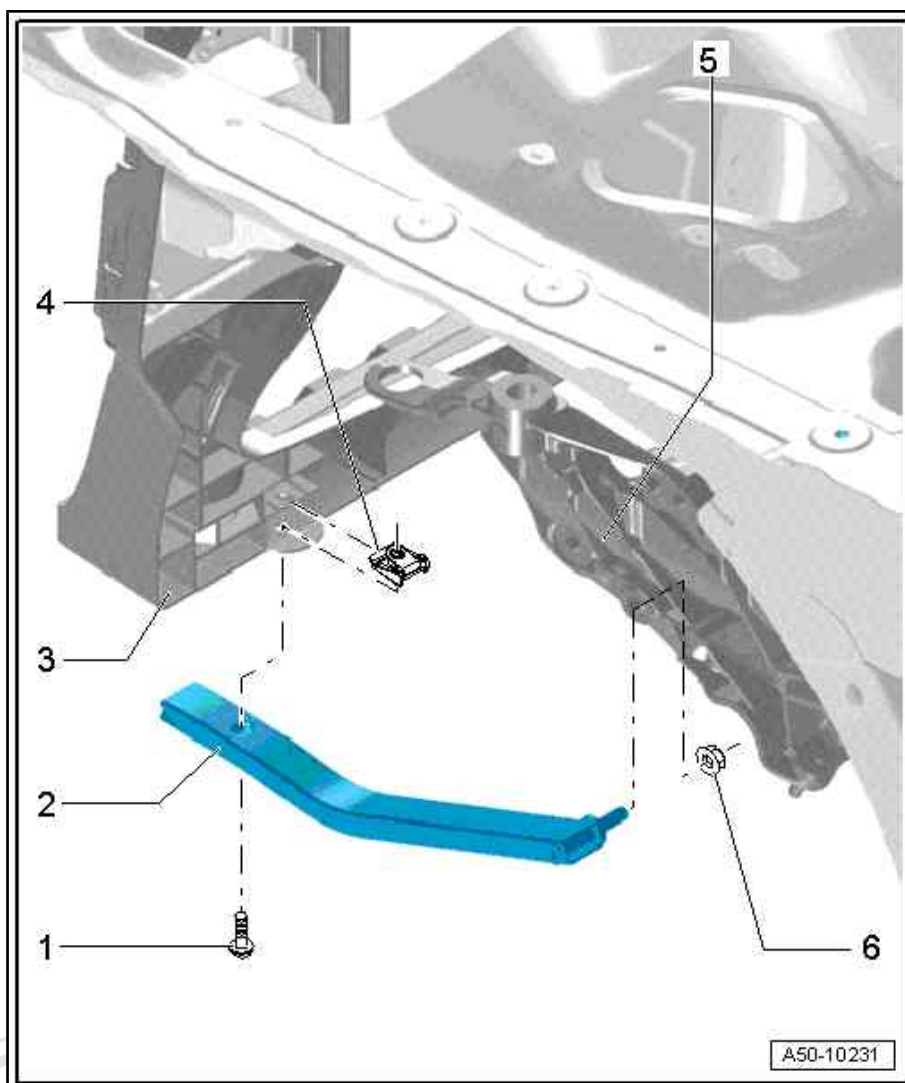
4 - Speed nut

- Push into bottom of lock carrier.

5 - Subframe

6 - Nut

- 23 Nm



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1.4 Removing and installing lock carrier cover

1 - Cover

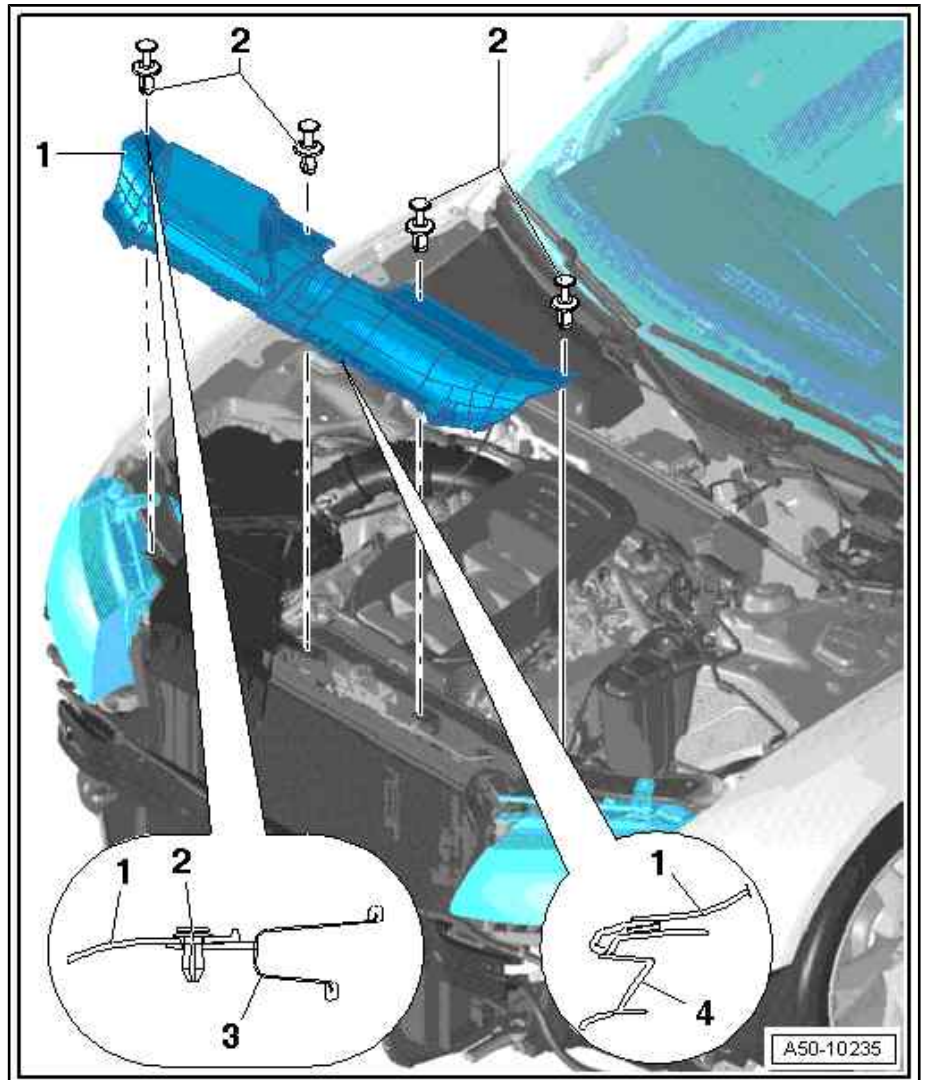
- ☐ To remove, unscrew locking pin to release fastener.
- ☐ Pull fastener out of cover.
- ☐ Pull cover towards rear and out of radiator grille.
- ☐ When installing, lugs of cover for radiator grille and on side of bumper cover must engage.
- ☐ Insert fastener through cover into lock carrier and press locking pin into place.

2 - Fastener

- ☐ When removing, unscrew locking pin.
- ☐ When installing, only press in locking pin.
- ☐ 4x

3 - Lock carrier

4 - Radiator grille



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2 Wing

⇒ [“2.1 Removing and installing wing”, page 8](#)

⇒ [“2.2 Removing and installing wing panel brace”, page 9](#)

⇒ [“2.3 Removing and installing seal for wing”, page 10](#)

⇒ [“2.4 Removing and installing closure plate”, page 11](#)

2.1 Removing and installing wing

1 - Wing

❑ Removing:

– Remove front wheel and wheel housing liner
⇒ [page 215](#).

– Unscrew nuts -8- at wing panel brace and detach bracket -9- for bumper cover.

– Remove closure plate
⇒ [page 11](#).

– Unscrew bolts -2- at wing mounting flange and bolts -4- at A-pillar and lift bottom of wing initially out of wing panel brace.

– Pull wing out slightly to side and lift upwards.

❑ Installing: in reverse order of removal

2 - Bolt

❑ 10 Nm

3 - Wing mounting flange

4 - Bolt

❑ 8 Nm

5 - Pop rivet

6 - Bracket (rear)

❑ Must first be riveted to new wing.

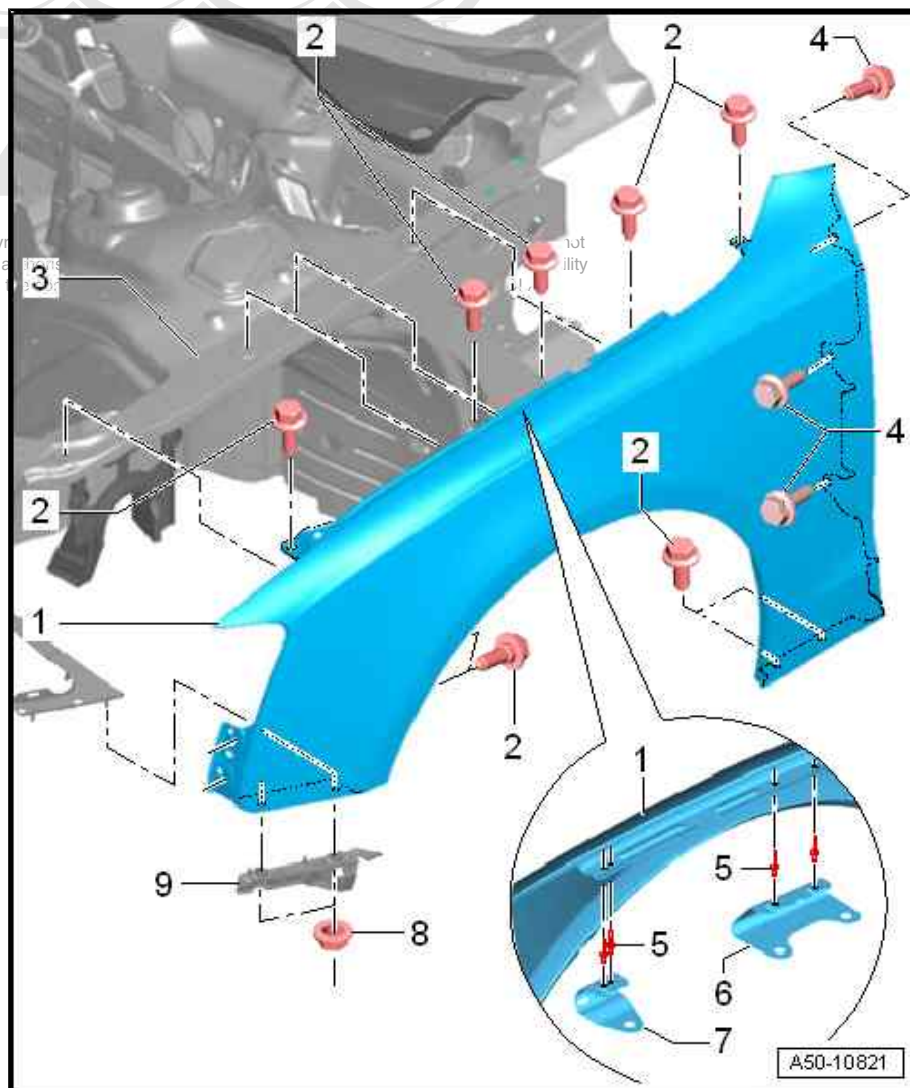
7 - Bracket (front)

❑ Must first be riveted to new wing.

8 - Nuts

❑ 4 Nm

9 - Bracket for bumper cover



2.2 Removing and installing wing panel brace

1 - Brace

- Slacken wheel housing liner in area of brace and push to side.
- To remove, unscrew nuts -2- at longitudinal member and nuts -6- at wing.

2 - Nut

- 8 Nm



Note

On the right side of the vehicle the brace is secured with bolt to 10 Nm.

3 - Longitudinal member

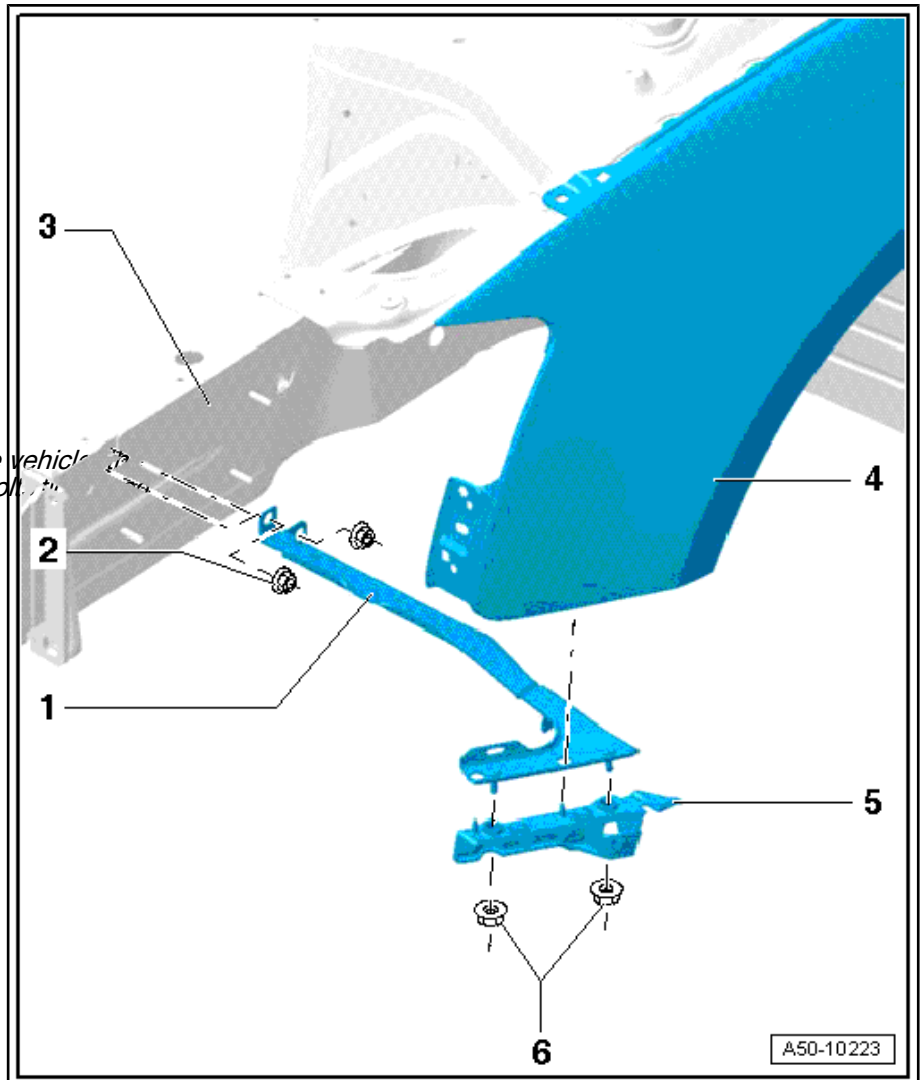
4 - Wing

5 - Bumper cover mounting

- Different versions ⇒ Electronic parts catalogue

6 - Nut

- 4 Nm



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2.3 Removing and installing seal for wing

1 - Seal

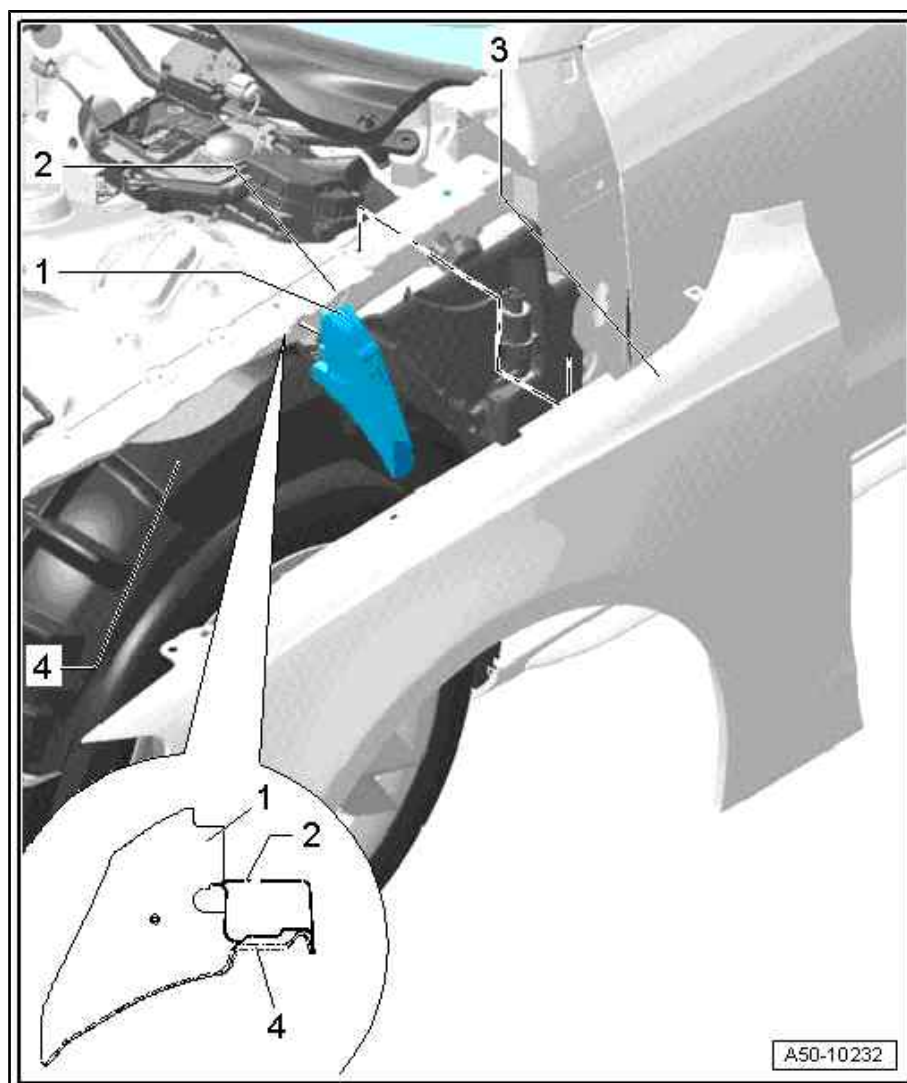
- ☐ Self-adhesive
- ☐ Peel off protective film and press seal under wheel housing liner onto wing mounting flange, as shown.

2 - Wing mounting flange

- ☐ Push in seal on wing mounting flange between wheel housing liner and inside of wing.

3 - Wing

4 - Wheel housing liner



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2.4 Removing and installing closure plate

1 - Wing

2 - Closure plate

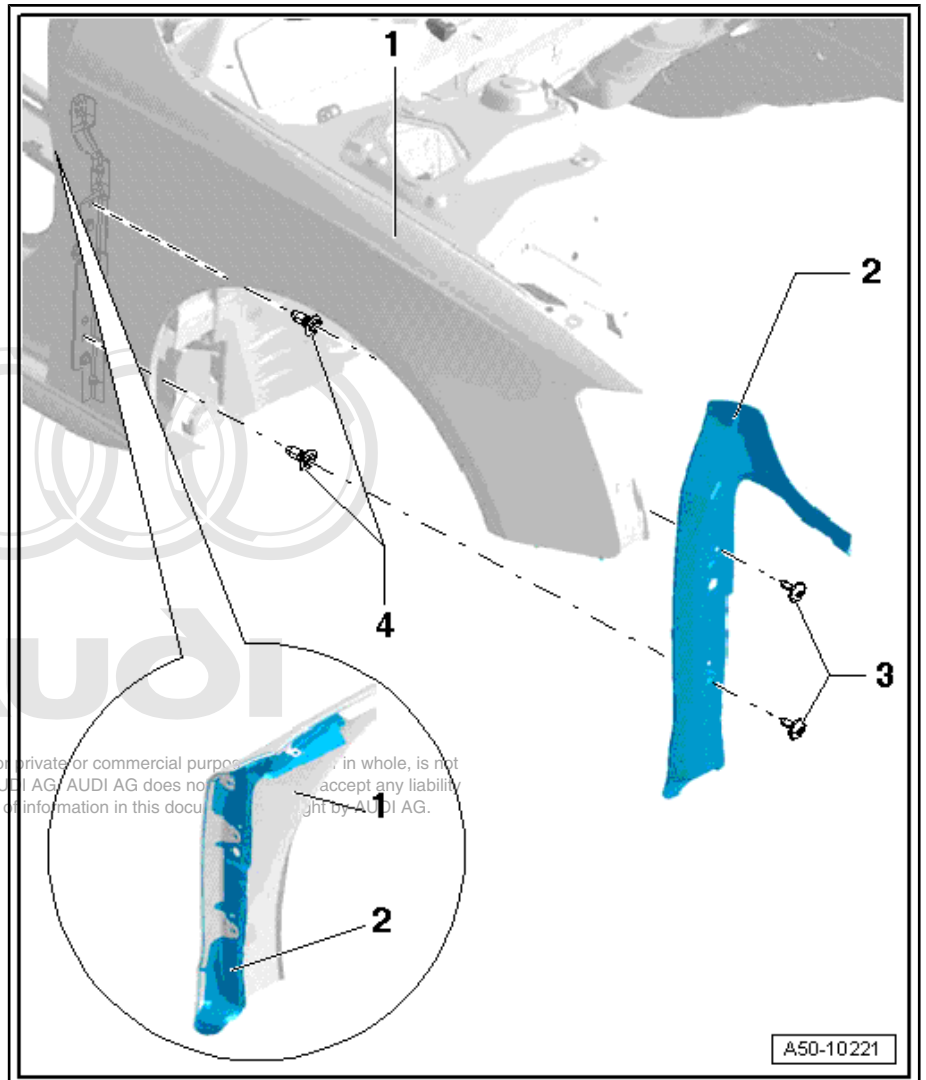
- Remove front wheel.
- Remove rear section of wheel housing liner
⇒ [page 215](#).
- ☐ Loosen washer fluid reservoir on left side.
- Unscrew bolts -3- from rear retainer for wing
⇒ [Item 6 \(page 8\)](#) and push out closure plate downwards.

3 - Bolts

- ☐ 1.5 Nm

4 - Clip

- ☐ 2x



3 Bulkhead

⇒ "3.1 Exploded view - plenum chamber partition panel",
page 12

⇒ "3.2 Removing and installing plenum chamber cover",
page 13

3.1 Exploded view - plenum chamber partition panel

1 - Bolt

- 7 Nm

2 - Clamping washer

- When installing, only press on studs of plenum chamber partition panel.

3 - Insulation

- Insulation secured to plenum chamber partition panel with clamping washer

4 - Nut

- 7 Nm

5 - Plenum chamber partition panel



Note

When removing, pay attention to different versions.

□ Before removing:

- Remove body brace ⇒ Running gear, axles, steering; Rep. gr. 40 ; Suspension strut, upper links; Removing and installing body brace .

- Detach washer fluid reservoir.

- Detach vacuum line to brake servo unit at connection to plenum chamber partition panel.

- Unclip vacuum line from plenum chamber partition panel.

- Disconnect/unclip coolant lines routed through plenum chamber partition panel ⇒ Rep. gr. 19 , Cooling system/coolant; Connection diagram - coolant hoses .

- To remove, unscrew bolts -1- and nut -4-.

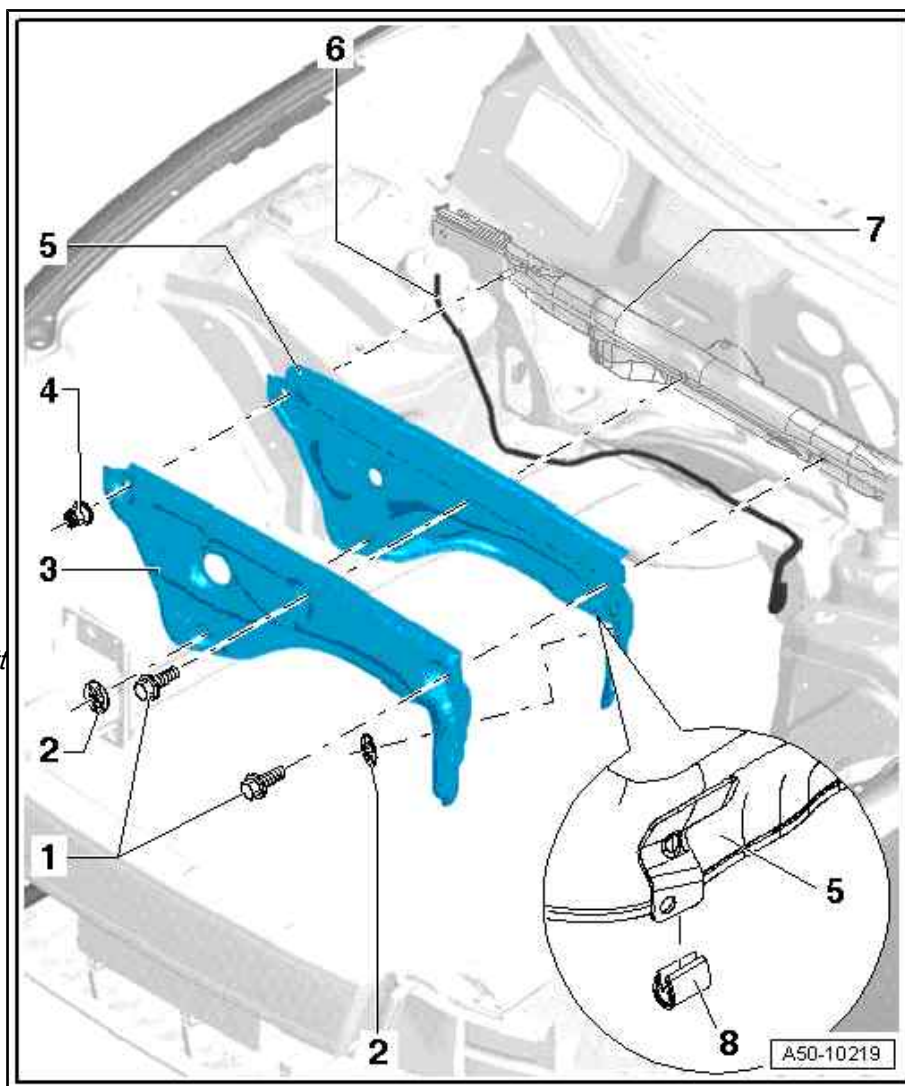
6 - Seal

- Push seal on from underneath.

7 - Plenum chamber

8 - Edge protection strip

- Slide edge protection strip onto lug on plenum chamber partition panel.



3.2 Removing and installing plenum chamber cover

⇒ "3.2.1 Removing and installing plenum chamber cover - vehicles up to 05.2008", page 13

⇒ "3.2.2 Removing and installing plenum chamber cover - vehicles from 06.2008 onwards", page 15

3.2.1 Removing and installing plenum chamber cover - vehicles up to 05.2008



Note

- ◆ Note different versions.
- ◆ Additional covers may also have to be removed first depending on the vehicle equipment.

1 - Additional cover (right-side)

- ☐ When removing, first pull off retaining clips (front).



Note

Depending on the vehicle, the cover and the chamber cover may be one component.

- ☐ Lift front of cover panel and pull out of plenum chamber cover.

2 - Plenum chamber cover

- ☐ Windscreen wiper arms removed
- ☐ Additional covers (left, centre, right) removed
- ☐ Pull off clips -3-.



Note

To facilitate removal/installation, spray windscreen surround with a small amount of soap solution.

- ☐ Starting at edge of windscreen, pull trim vertically upwards out of windscreen surround.

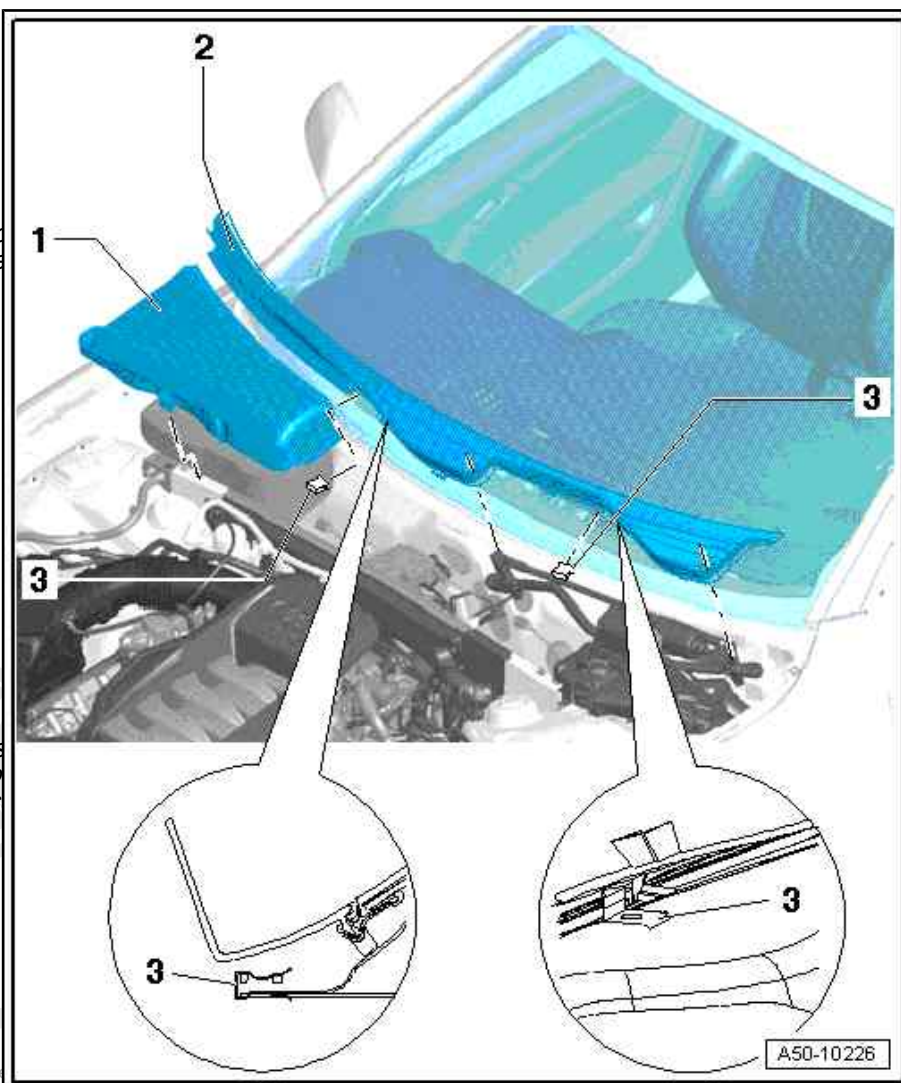


Caution

Danger of breaking glass during installation.

Do not attempt to knock trim on when installing.

Carefully press trim into windscreen surround, starting at side.



3 - Clip

- ❑ After installing plenum chamber cover, push clips on at points indicated.

4 - Windscreen

Removing additional covers

1 - Additional cover (centre)

- ❑ Unclip at front bottom first, then release fasteners -2- at rear (pressing them together slightly from below) and lift out of plenum chamber cover.

2 - Catch

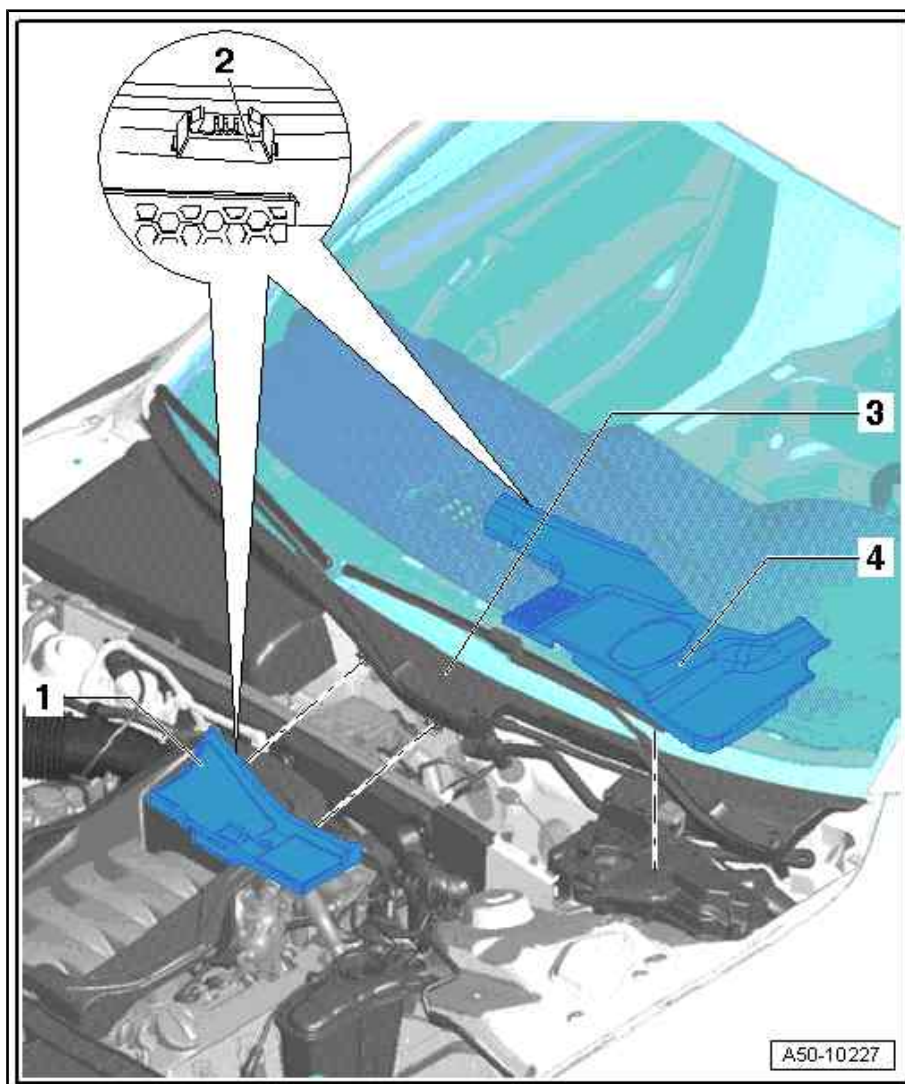
- ❑ When removing, press together slightly from below and push out.

3 - Additional cover (left-side)

- ❑ Unclip at front bottom first, then release fasteners at rear and lift out of plenum chamber cover.

4 - Plenum chamber cover

5 - Catches for plenum chamber cover



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3.2.2 Removing and installing plenum chamber cover - vehicles from 06.2008 onwards

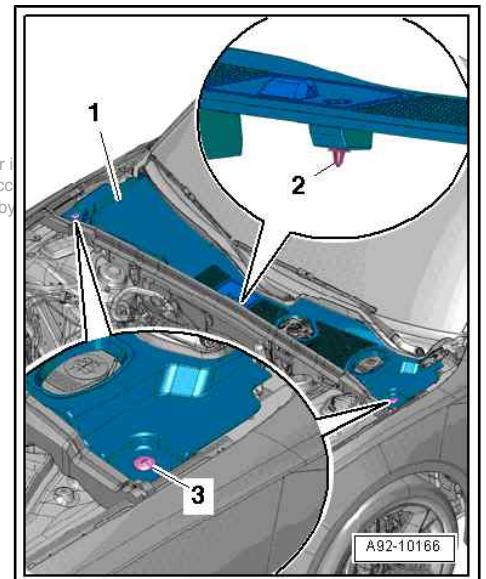
Removing

- Remove bolts -3-.
- Unclip retainers -2- from mounting and detach plenum chamber cover -1-.

Installing

Install in reverse sequence.

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55 – Bonnet, rear lid

1 Bonnet

⇒ [“1.1 Exploded view - bonnet”, page 16](#)

⇒ [“1.2 Exploded view - bonnet lock”, page 18](#)

⇒ [“1.3 Exploded view - Bowden cable”, page 18](#)

⇒ [“1.4 Exploded view - gas strut”, page 22](#)

⇒ [“1.5 Exploded view - bonnet seals”, page 24](#)

⇒ [“1.6 Adjusting bonnet”, page 24](#)

⇒ [“1.7 Removing and installing operating lever for bonnet lock”, page 26](#)

⇒ [“1.8 Removing and installing striker”, page 27](#)

⇒ [“1.9 Removing and installing hinges”, page 28](#)

⇒ [“1.10 Removing and installing insulation”, page 29](#)

⇒ [“1.11 Removing and installing gas strut”, page 29](#)

⇒ [“1.12 Releasing gas from gas strut”, page 30](#)

⇒ [“1.13 Removing and installing impact guard”, page 30](#)

1.1 Exploded view - bonnet

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1 - Bonnet

- When removing or installing the bonnet, a second mechanic is required to support and hold the bonnet.
- ☐ Removing:
 - Detach gas strut from bonnet ⇒ [page 22](#).
 - Unscrew nuts -4- at bonnet hinge at top.
 - Detach bonnet.
- ☐ Installing: in reverse order of removal
- ☐ Adjusting:
 - Align bonnet between wings.
 - Adjust height of bonnet via bottom section of bonnet lock.
 - Adjust position of bonnet to wings via stop buffers ⇒ [page 25](#).

2 - Bolts

- ☐ 21 Nm

3 - Bonnet hinge

- For removal and installation, remove bonnet or support it securely.
- ☐ Removing:
 - Remove gas strut ⇒ [page 22](#).
 - Remove bolts -2- and nuts -4-.
- ☐ Installing: in reverse order of removal

4 - Nuts

- ☐ 21 Nm

5 - Gas strut

- ☐ Removing and installing ⇒ [page 22](#).
- ☐ Cylinder end of gas strut is installed on body side.

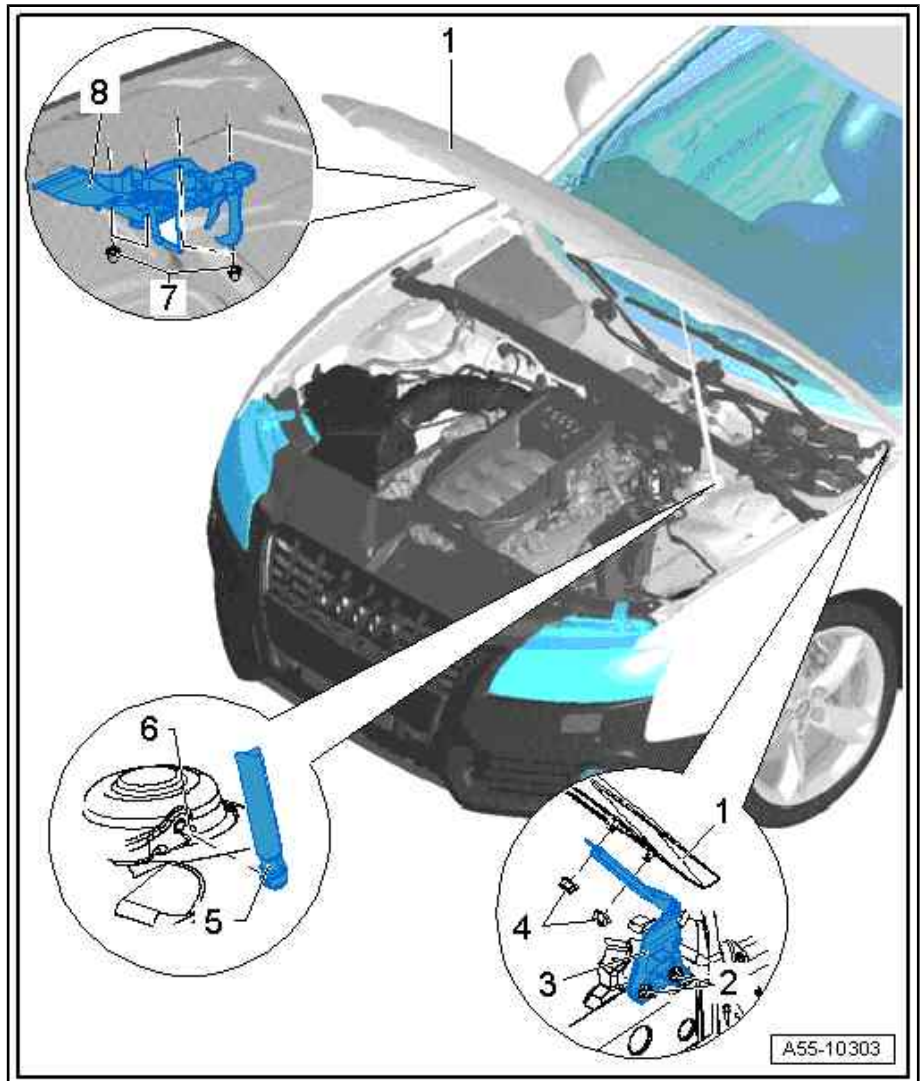
6 - Ball stud

- ☐ 21 Nm

7 - Nuts

- ☐ 8 Nm

8 - Arrester



1.2 Exploded view - bonnet lock

1 - Bonnet lock

- ☐ Unfasten bumper cover (top) and press to side.
- ☐ Detach cable for bonnet lock at coupling unit.
- ☐ Unplug electrical connector.
- ☐ Remove bolts -1- and -2-.



Note

The height of the bonnet is adjusted by moving the bonnet lock up or down.

2 - Lock carrier

3 - Bolt

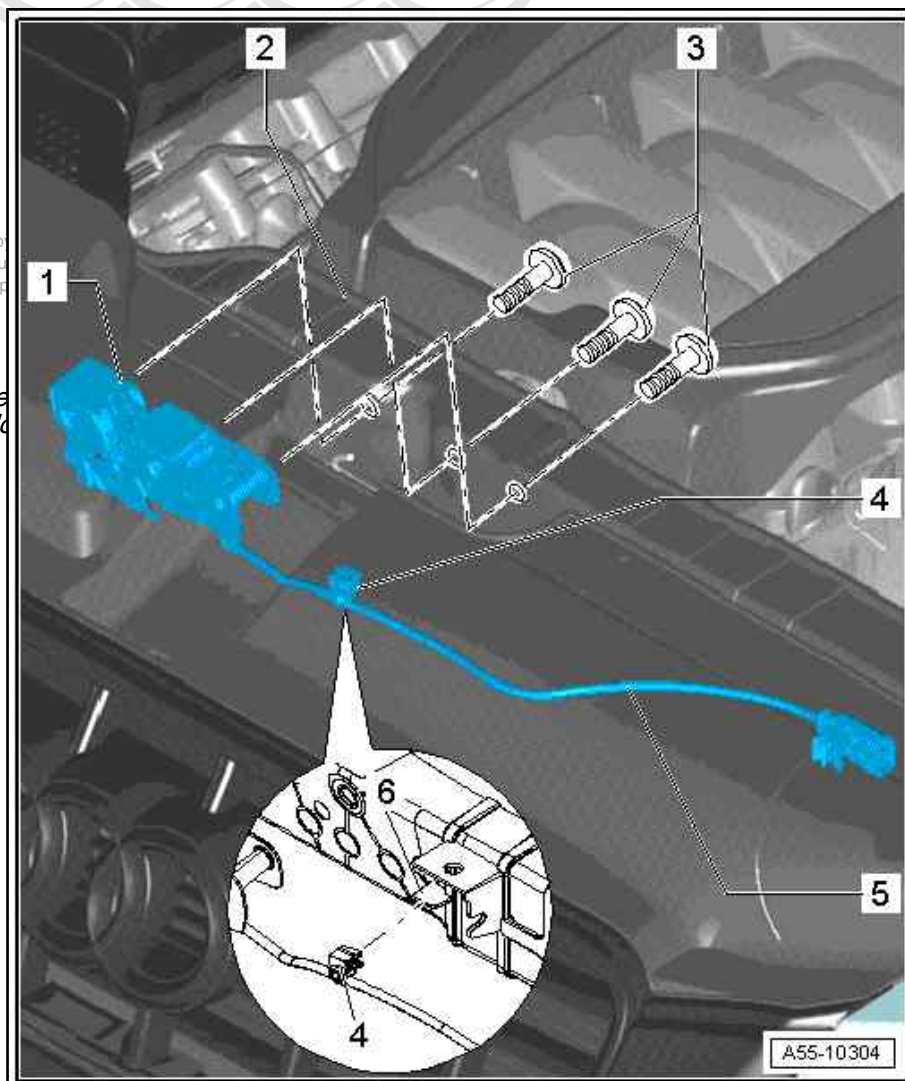
- ☐ 11 Nm

4 - Clip

- ☐ Push clip with electrical wire onto lug on lock carrier

5 - Electrical wire for bonnet lock

6 - Tab



1.3 Exploded view - Bowden cable

Bowden cable ⇒ [page 18](#)

Coupling unit for cable ⇒ [page 19](#)

Engaging cable in bonnet lock ⇒ [page 20](#)

Engaging Bowden cable in bonnet lock ⇒ [page 21](#)

Routing of Bowden cable in vehicle interior ⇒ [page 22](#)

Routing of Bowden cable in engine compartment ⇒ [page 22](#)

Bowden cable

1 - Bonnet lock

- ☐ Removing and installing
⇒ [page 19](#)
- ☐ Slide upwards or downwards to adjust bonnet.

2 - Cable (front) for bonnet lock

- ☐ Removing:
 - Disconnect Bowden cable from coupling unit
⇒ [page 19](#).
 - Disengage Bowden cable from bracket -7-.
 - Pull Bowden cable towards engine compartment.
- ☐ Installing: in reverse order of removal

3 - Coupling unit for cable

- Push clip for coupling unit onto side of retainer -8- on lock carrier.
- Detach Bowden cable at this location before taking out lock carrier and when removing release lever.

4 - Cable (rear) for bonnet lock

- ☐ Bowden cable to operating lever in vehicle interior

5 - Grommet

- ☐ When installing, make sure it is seated correctly.

6 - Operating lever

- ☐ Disengaging Bowden cable ⇒ [page 26](#)

7 - Release lever for bonnet lock

- ☐ Removing cover for operating lever ⇒ [page 26](#)

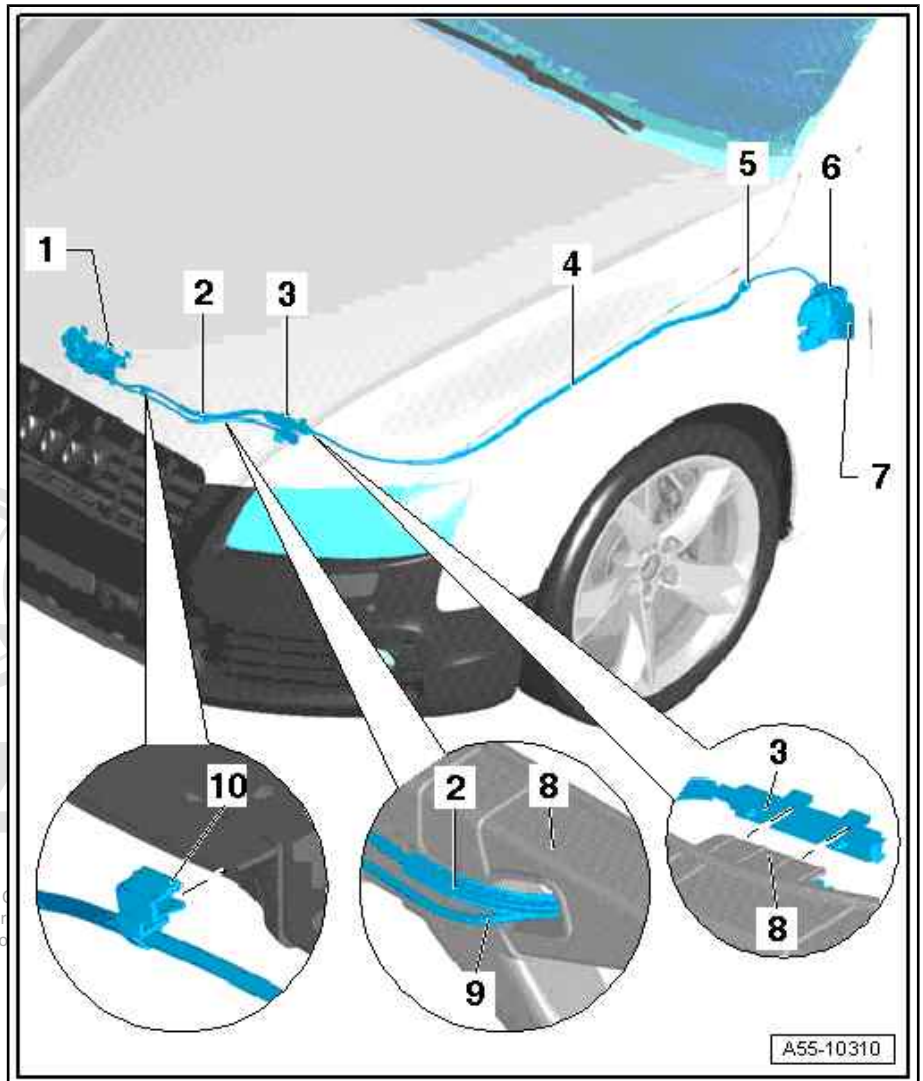
8 - Lock carrier

9 - Electrical wire

- ☐ Pull electrical wire and bonnet lock cable through lock carrier as shown.

10 - Clip

- ☐ Push clip with electrical wire onto lug in lock carrier.



Coupling unit for cable

1 - Cable (rear)

- ❑ Cable to operating lever
- ❑ When removing, first take out of coupling unit towards rear.

2 - Coupling unit for cable

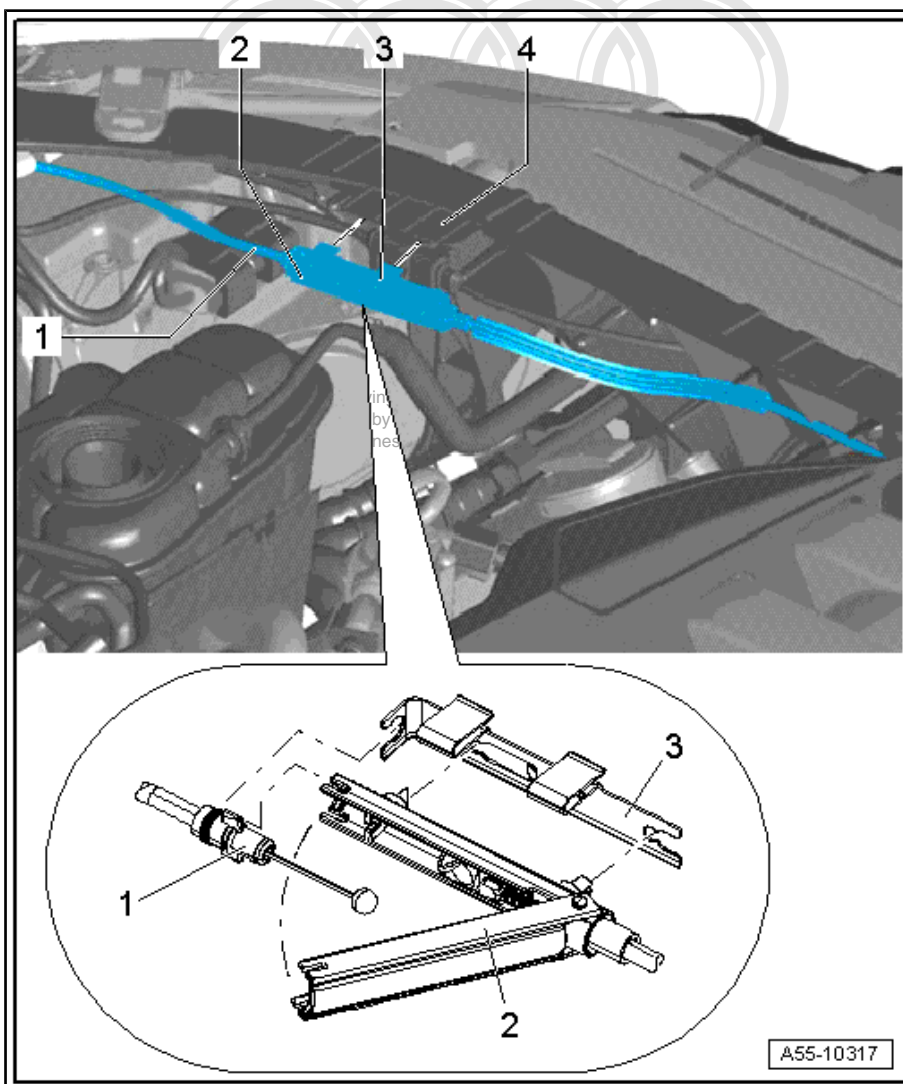
- ❑ To release, pull clip off lock carrier and pull cable (rear) out of clip slightly.
- ❑ Open coupling unit and lift cable (front) with nipple out of coupling unit.

3 - Clip

- ❑ After fitting cable, push onto lock carrier from side

4 - Cable (front)

- ❑ Cable to bonnet lock



Engaging cable in bonnet lock

1 - Bowden cable (front)

- ☐ Insert cable nipple into operating lever in bonnet lock.

2 - Bowden cable for right-hand-drive vehicles

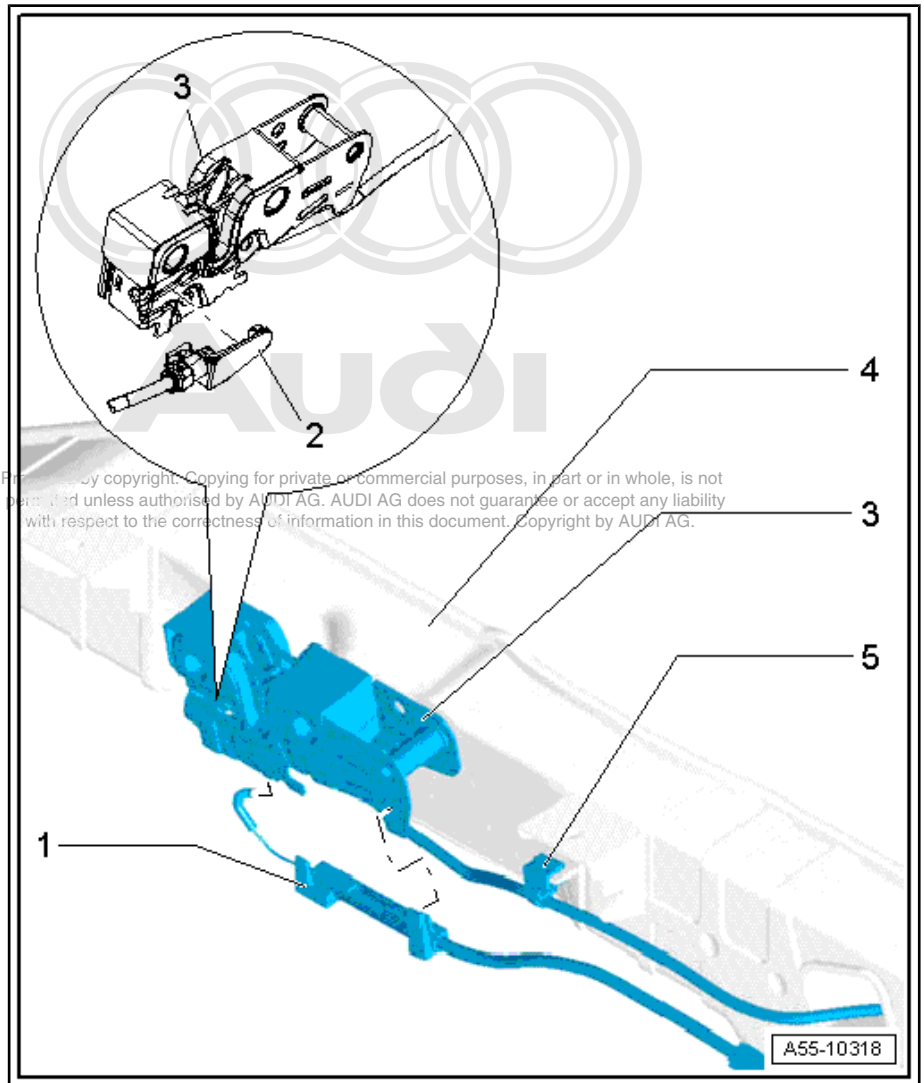
3 - Bonnet lock

- ☐ Engage guide for Bowden cable in bottom part of bonnet lock.

4 - Lock carrier

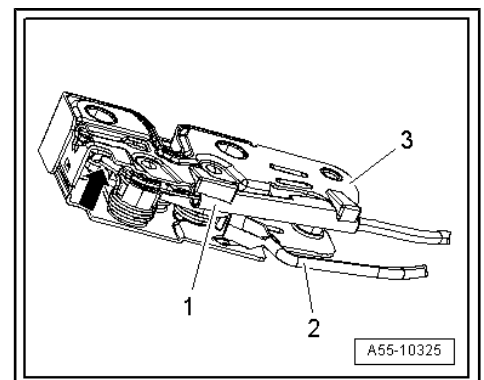
5 - Clip

- ☐ Push clip with electrical wire onto lug in lock carrier.



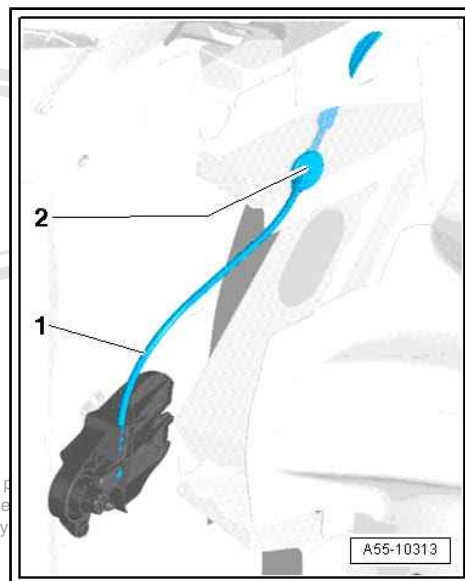
Engaging Bowden cable in bonnet lock

- Insert Bowden cable nipple -2- into operating lever -arrow- of bonnet lock -3-.
- Engage Bowden cable with guide -1- in bonnet lock from below.



Routing of Bowden cable in vehicle interior

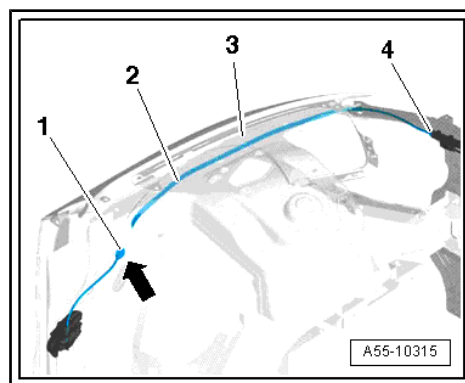
- Route Bowden cable -1- at A-pillar as shown.
- Grommet -2- must be pressed onto A-pillar from interior.



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Routing of Bowden cable in engine compartment

- Starting from interior, route Bowden cable -2- in engine compartment along wing -3- (as shown).
- Push coupling unit -4- into lock carrier ⇒ [page 19](#) .



1.4 Exploded view - gas strut

1 - Gas strut

- ❑ To remove, release plastic clip -arrow- with pliers => [page 29](#) and detach gas strut from ball stud.



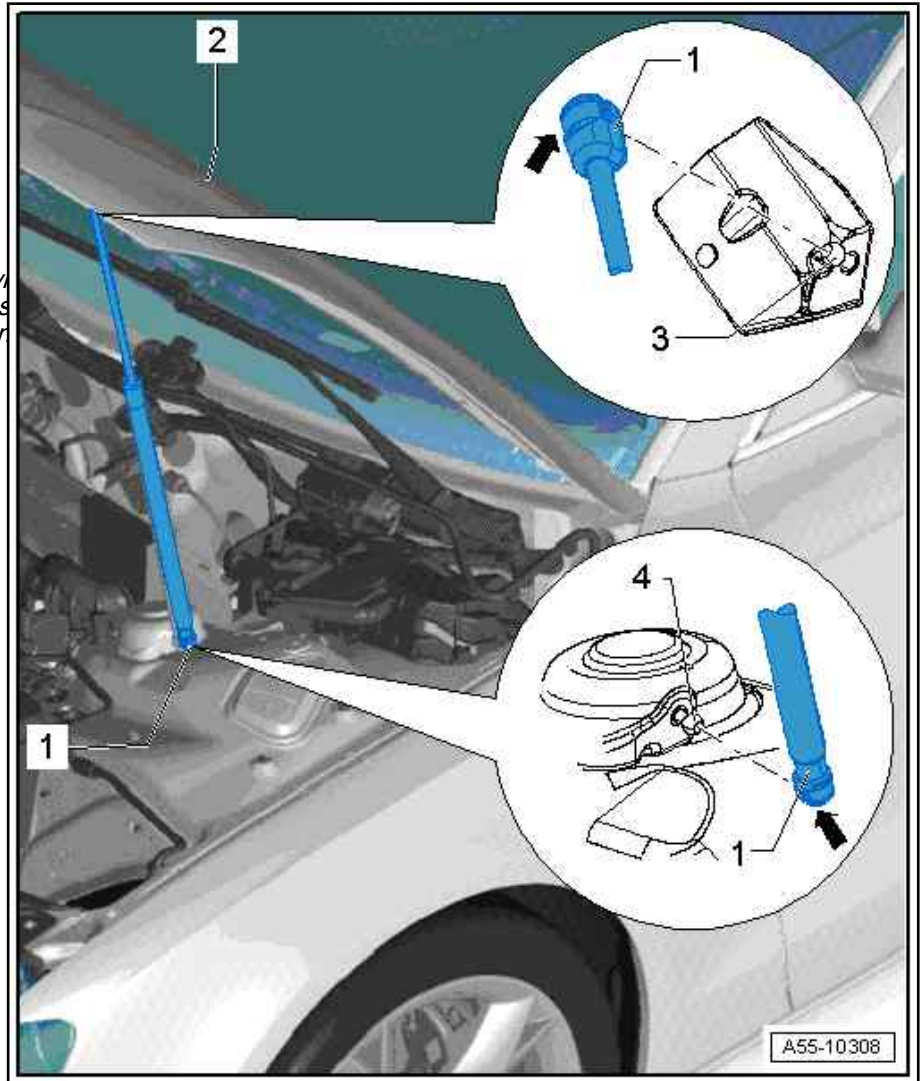
Note

Note correct position when installing: cylinder end of gas strut must be engaged on body end

2 - Bonnet

3 - Ball stud

- ❑ 21 Nm



1.5 Exploded view - bonnet seals

1 - Seal for plenum chamber

- ❑ To remove, detach from body flange by pulling to rear at side.
- ❑ When installing, pre-tension and slide into profiled seal, starting at side.
- ❑ Gradually press on seal as far as opposite side.
- ❑ Insert seal in profiled seal on opposite side in the same manner.
- ❑ Compress excess length along plenum chamber partition panel.

2 - Profiled seal (right-side)

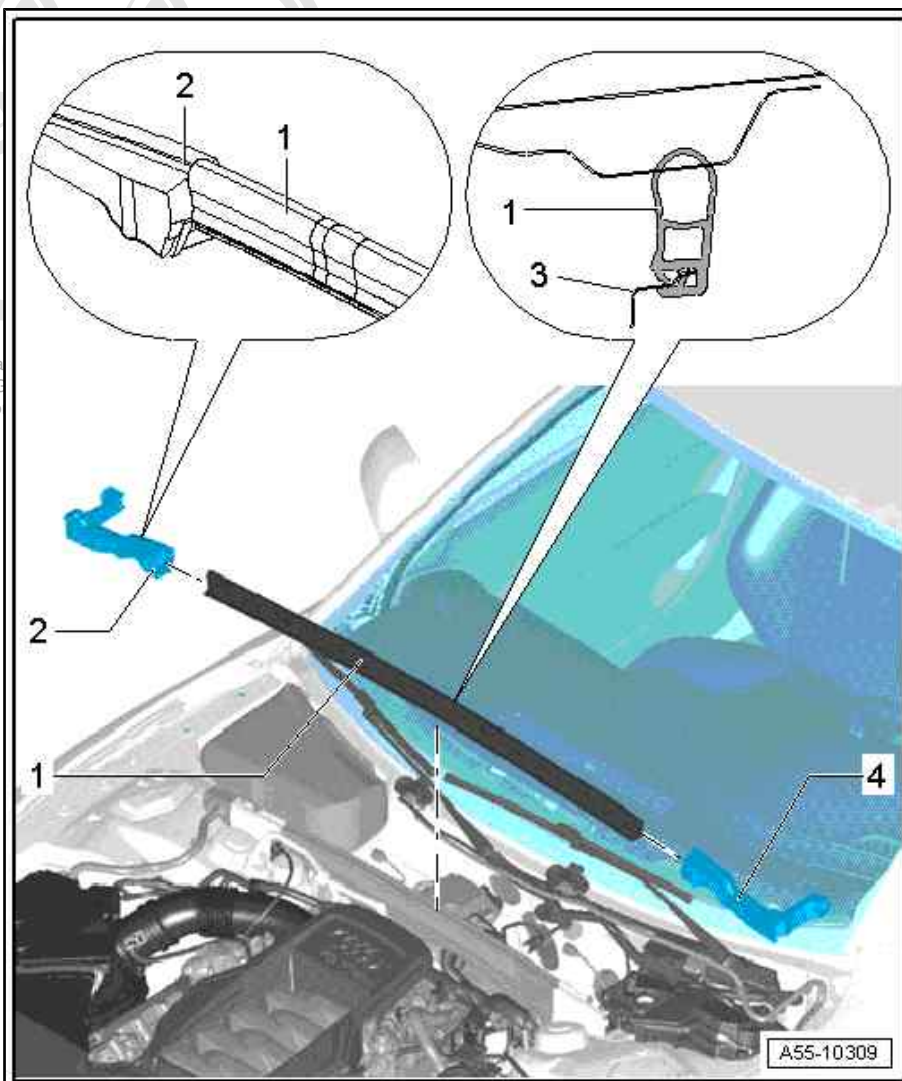
- ❑ To remove, unclip from body and pull out to side under wing mounting flange
- ❑ When installing, clips of foam section must engage in body

3 - Plenum chamber partition panel

- ❑ Push plenum chamber seal on at side.

4 - Profiled seal (left-side)

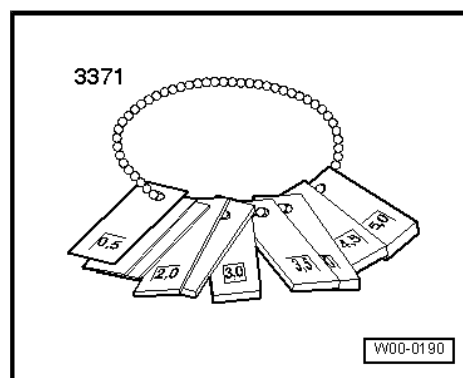
- ❑ To remove, unclip from body and pull out to side under wing mounting flange
- ❑ When installing, clips of foam section must engage in body



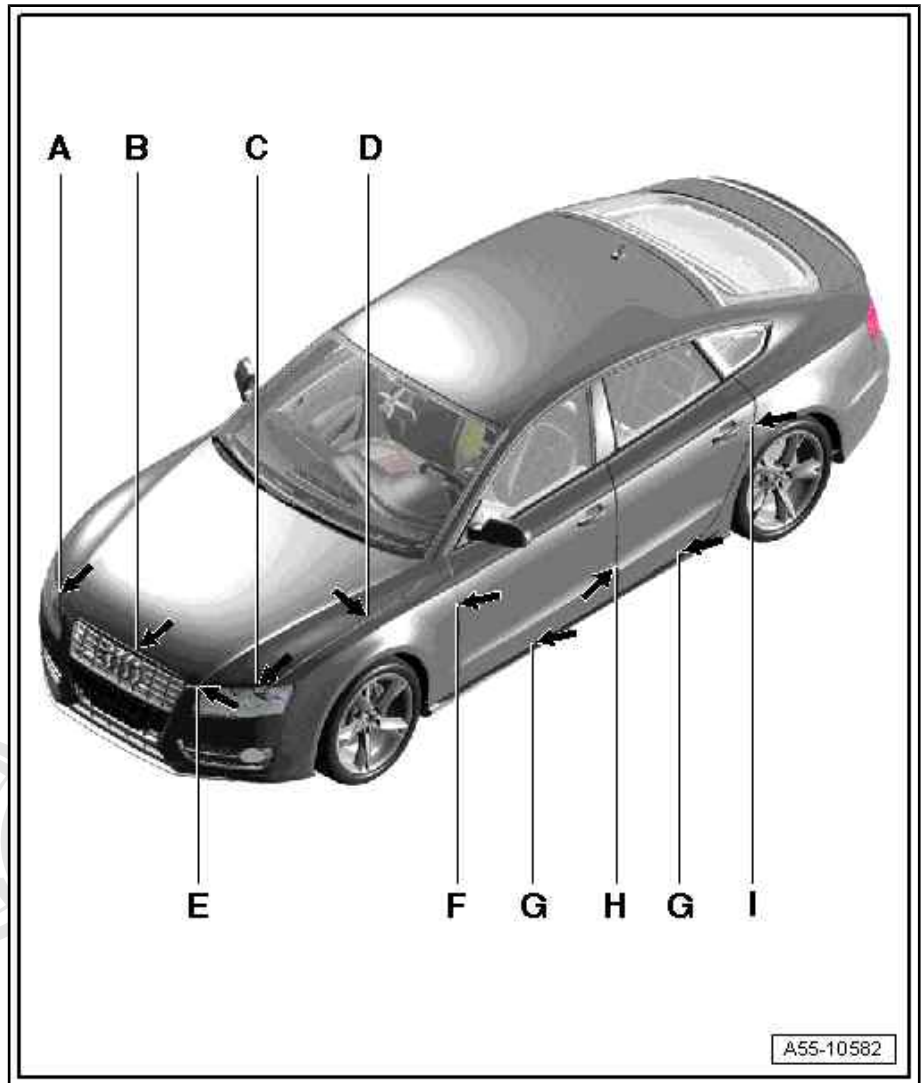
1.6 Adjusting bonnet

Special tools and workshop equipment required

- ◆ Setting gauge - 3371-



Gap widths at bonnet



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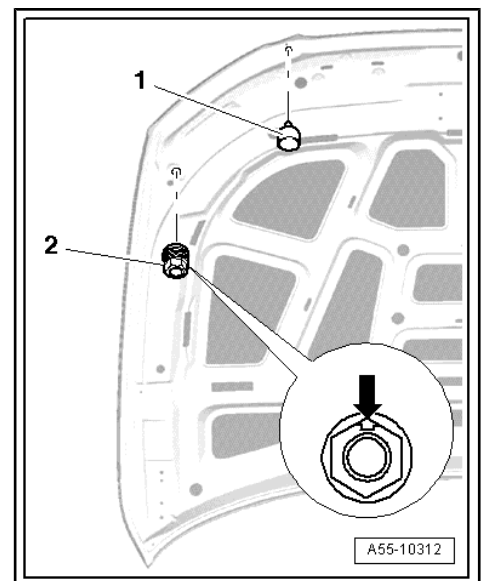
Stop buffers for height adjustment



Note

The adjusting buffers -2- are used to adjust the height of the bonnet.

- When bonnet is closed, adjusting buffers -2- must rest on lock carrier.
- The rubber buffers -1- serve as impact protection



1.7 Removing and installing operating lever for bonnet lock

Removing cover for operating lever ⇒ [page 26](#)

Removing operating lever ⇒ [page 26](#)

Removing cover for operating lever

1 - A-pillar trim (bottom)

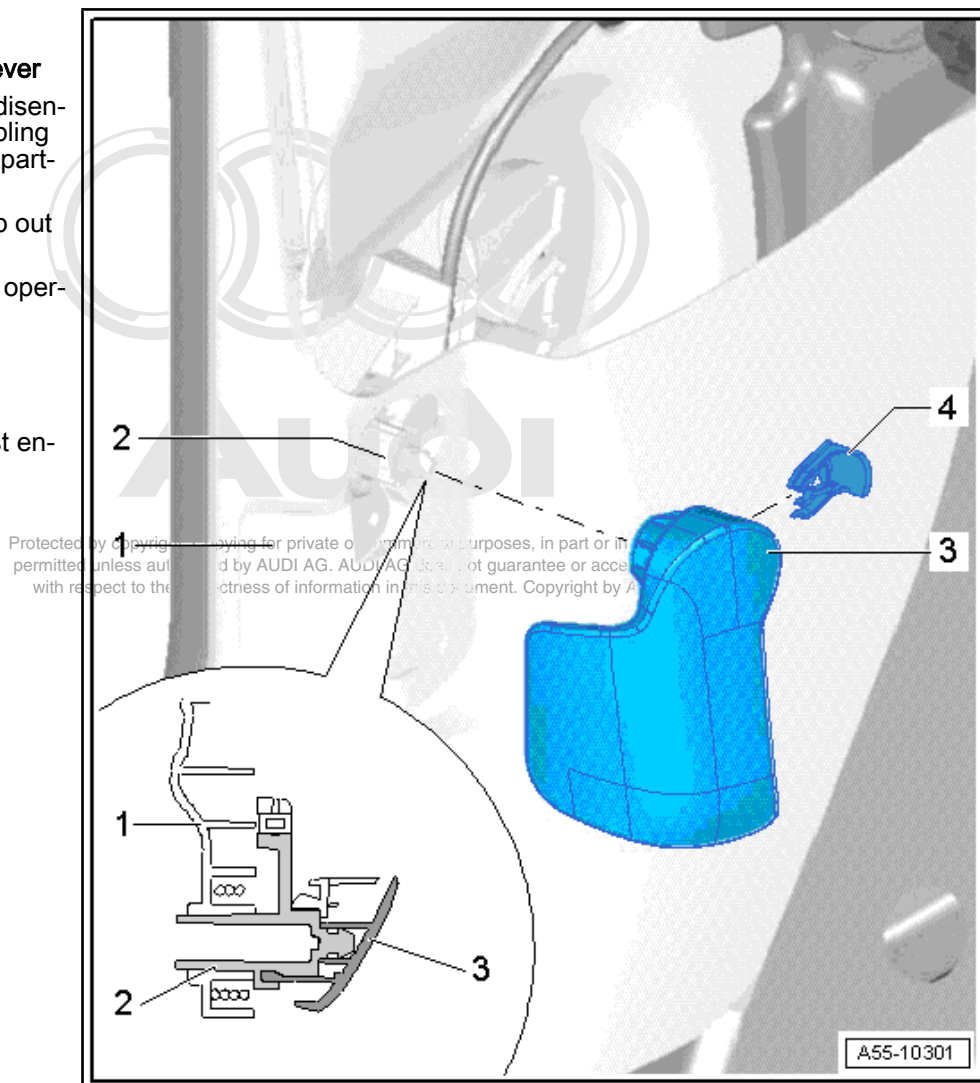
2 - Cover for operating lever

- ☐ Before removing, disengage cable in coupling unit in engine compartment ⇒ [page 19](#).
- ☐ Lever retaining clip out of operating lever.
- ☐ Detach cover from operating lever at side.

3 - Operating lever

4 - Retaining clip

- ☐ Press in fully (must engage).



Removing operating lever

1 - Bowden cable

- ❑ Clip support bracket for Bowden cable into mounting bracket, as shown in detail view.

2 - Mounting bracket for operating lever

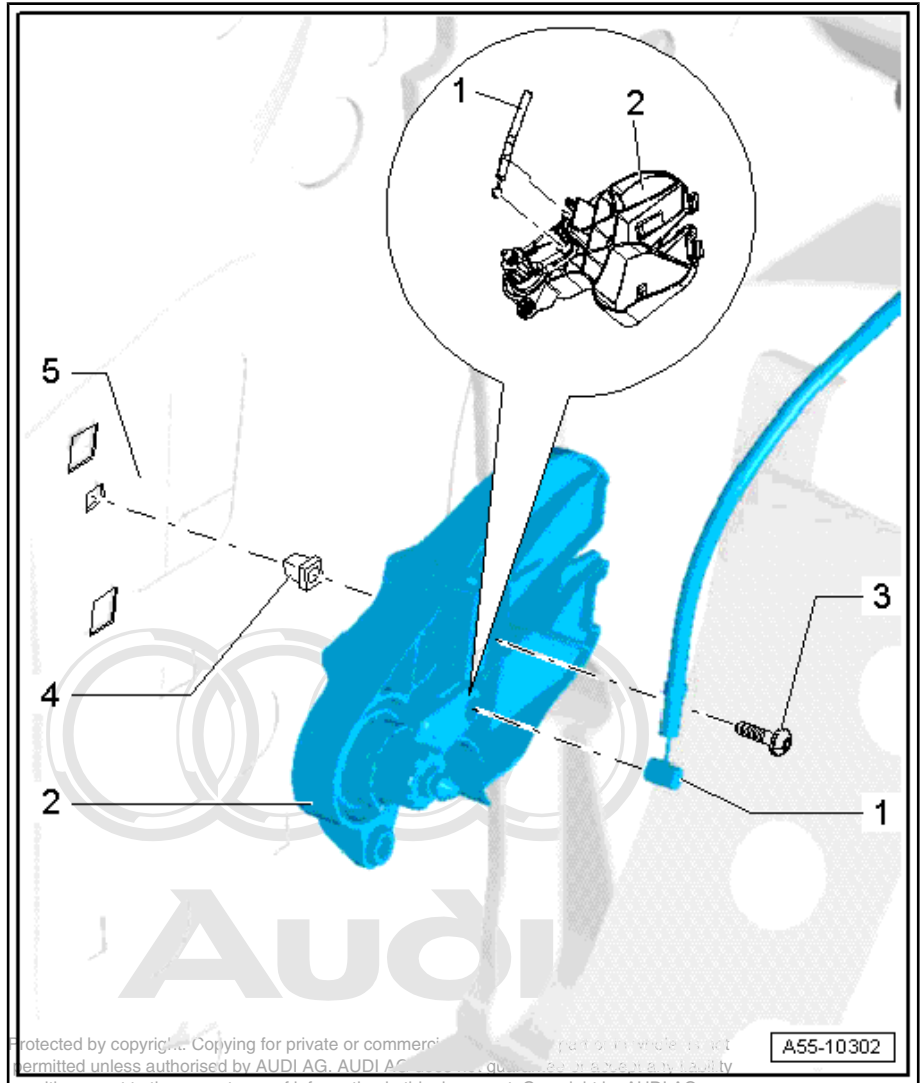
- ❑ Cover for operating lever removed
- ❑ A-pillar trim (bottom) removed
- ❑ Unscrew bolts -3- and disengage cable -1-.

3 - Bolts

- ❑ 2 Nm

4 - Clip

5 - A-pillar



1.8 Removing and installing striker

Removing and installing striker with arrester

Removing

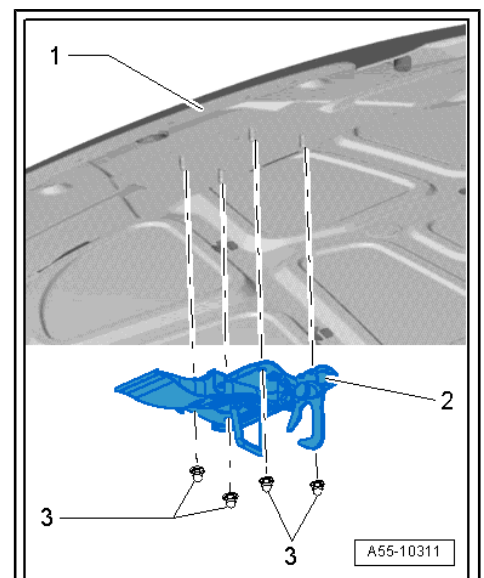
- Unscrew nuts and detach arrester.

Installing

Install in reverse sequence.

Tightening torques

- ◆ ⇒ ["1.1 Exploded view - bonnet", page 16](#)



1.9 Removing and installing hinges

1 - Gas strut

- ☐ Engage cylinder end of gas strut on bonnet end
- ☐ Removing ⇒ [page 22](#)

2 - Bonnet

3 - Bonnet hinge

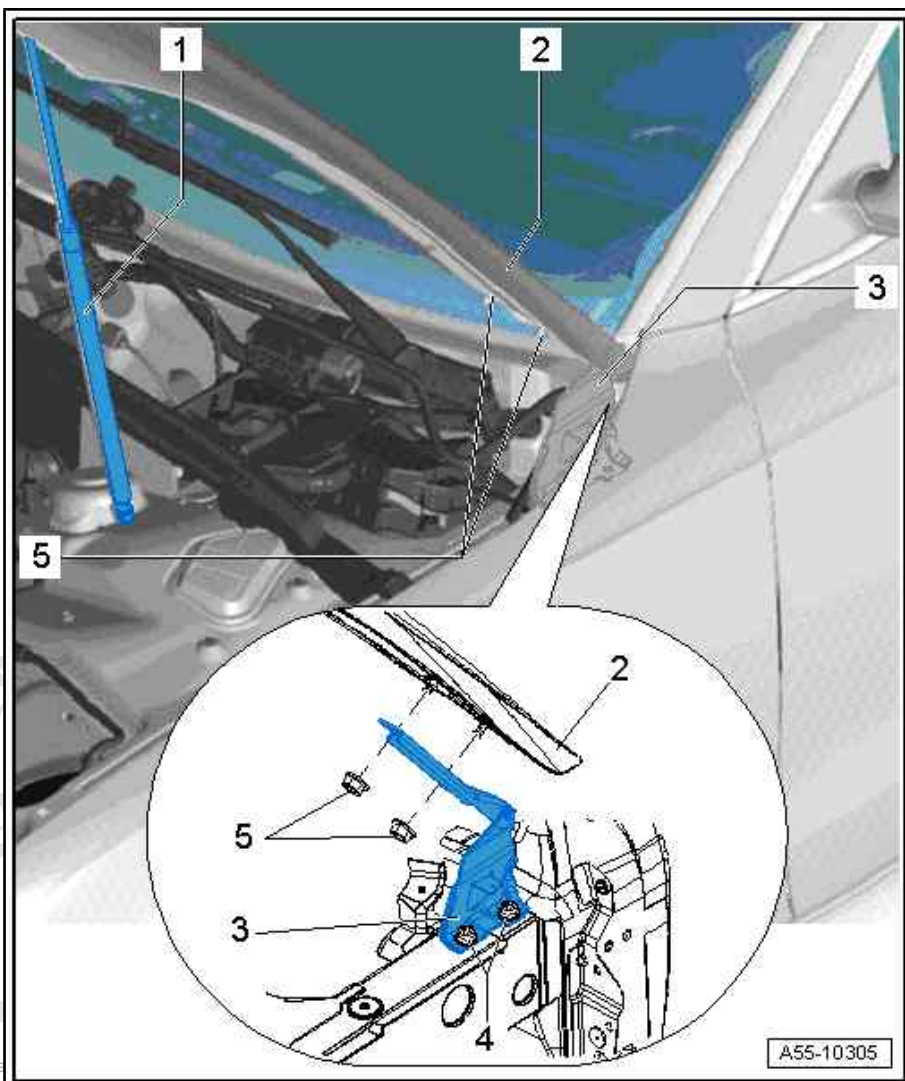
- Before removing hinge, support bonnet or secure it in position.
- Remove gas strut ⇒ [page 22](#).
- ☐ Remove bolts -4- and nuts -5-.
- ☐ Installing: in reverse order of removal

4 - Nut

- ☐ 21 Nm

5 - Nut

- ☐ 21 Nm



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1.10 Removing and installing insulation

1 - Retaining clip

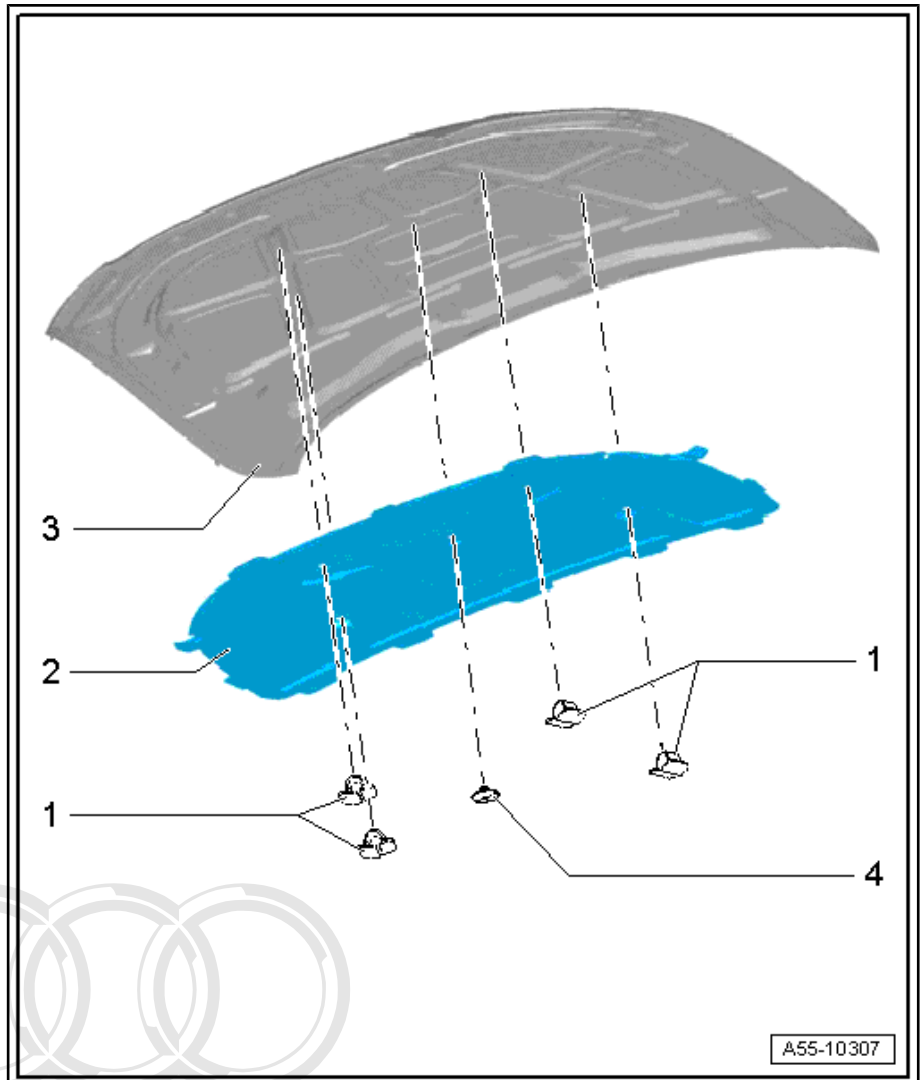
2 - Lining for bonnet

□ Installing:

- First push lugs on rear edge of lining into holes provided on inner panel.
- Push in lugs at front edge and side.
- Retaining clips must engage audibly when pressing in.
- Press in clip.

3 - Bonnet

4 - Clip



1.11 Removing and installing gas strut

Removing

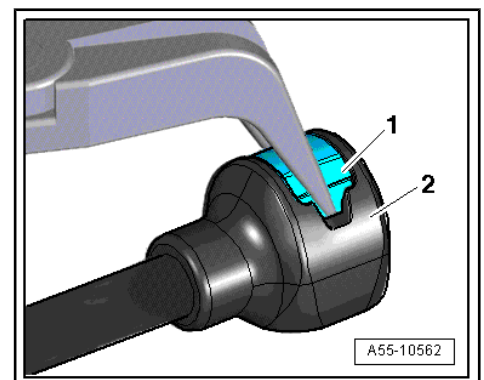
- Using commercially available long-nose pliers, compress plastic clip -1- as shown and pull gas strut -2- off ball stud.
- Repeat procedure at lower ball stud.

Installing



Note

- ◆ Following complete removal, pay attention to correct position of gas strut when installing.
- ◆ The gas strut cylinder must be engaged on the body end.
- Press gas strut onto ball studs, first at bottom, then at top, and engage.



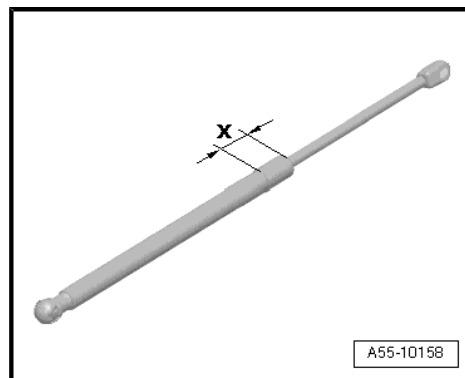
1.12 Releasing gas from gas strut

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



WARNING

- ◆ *Only the section indicated may be clamped in the vice (accident risk!).*
- ◆ *Always wear safety goggles while sawing.*



Note

Cover area around saw cut with a cloth to catch any fluid which may escape.

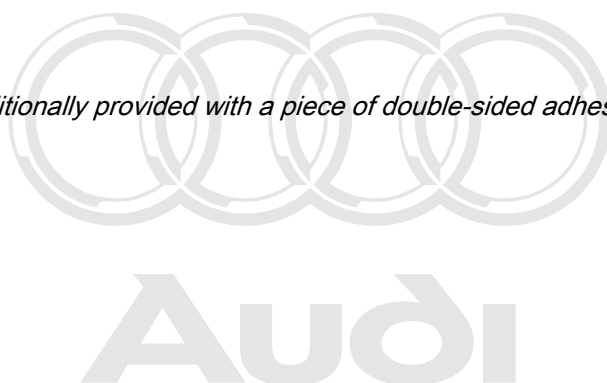
- Saw open cylinder of gas strut in first third of overall cylinder length, based on reference edge at piston-rod end.

1.13 Removing and installing impact guard



Note

The impact guard is additionally provided with a piece of double-sided adhesive tape.



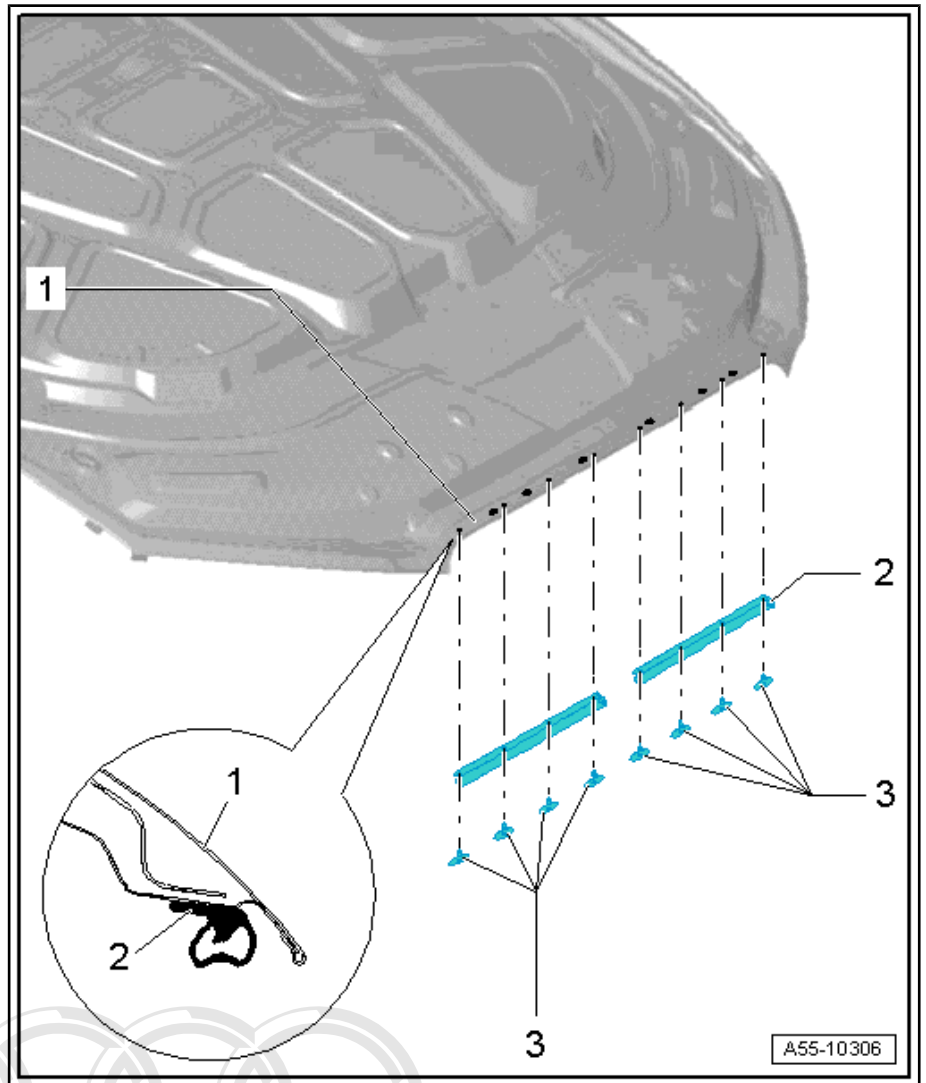
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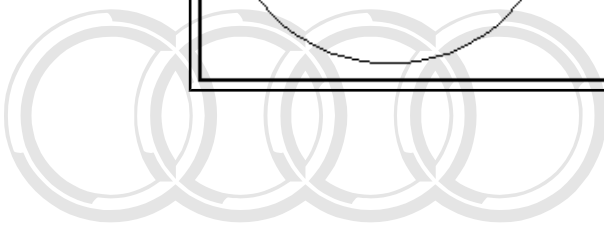
1 - Bonnet

2 - Impact guard

- To remove, pull clip out of bonnet and pull off impact guard

3 - Clip




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2 Rear lid

⇒ "2.1 Exploded view - rear lid", page 32

⇒ "2.2 Exploded view - gas strut", page 34

⇒ "2.3 Adjusting rear lid", page 34

⇒ "2.4 Removing and installing rear lid lock", page 38

⇒ "2.5 Removing and installing hinges", page 39

⇒ "2.6 Manual release for rear lid lock", page 41

⇒ "2.7 Removing and installing rear lid seal", page 42

⇒ "2.8 Removing and installing gas strut", page 43

⇒ "2.9 Releasing gas from gas strut", page 44

2.1 Exploded view - rear lid

1 - Stop (left-side)

- ☐ On rear lid

2 - Rear lid hinge

- ☐ Removing and installing

3 - Rear lid

- When removing or installing the rear lid, a second mechanic is required to support and hold the rear lid.

- ☐ Removing:



Note

Before removing, mark of the rear lid on the lid a fine felt-tip pen or similar.

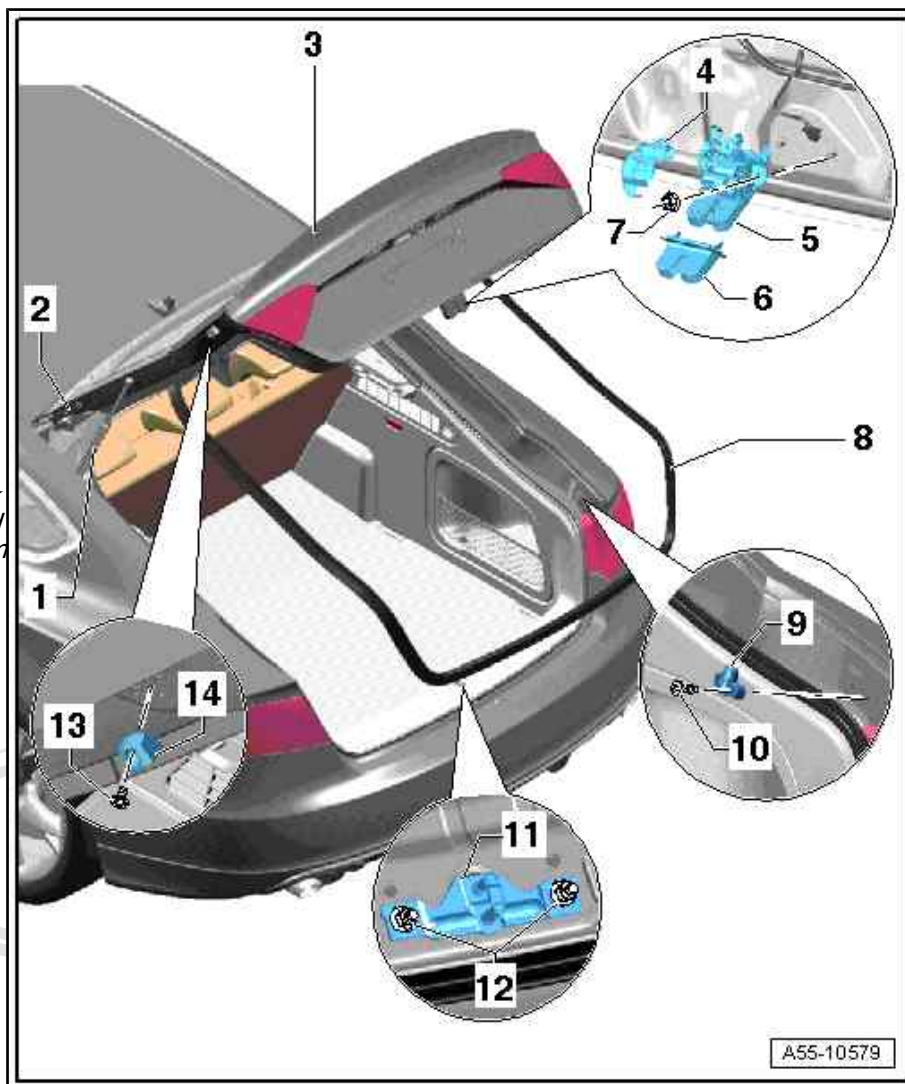
- Remove lining for rear lid ⇒ General body repairs, interior; Rep. gr. 70 ; Luggage compartment trim panels; Overview of fitting locations - luggage compartment trim panels .
- Unplug electrical wiring at connectors and pull out of rear lid.
- First unscrew top bolt from rear lid.
- Remove side bolts from both sides of rear lid and lift off rear lid
⇒ page 39 .

- ☐ Installing: in reverse order of removal

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Depending on equipment version, the following additional work may be necessary:

- Calibrate reversing camera - R189- ⇒ Communication; Rep. gr. 91 ; Reversing camera system .



- ☐ Adjusting:
 - Adjust height of rear lid at front and adjust lengthwise via rear lid hinge.
 - Adjust height of rear lid at rear via rear lid lock at striker plate.
 - Align rear lid centrally with equal gaps on both sides / to specified gap widths ⇒ [page 34](#) .
 - Adjust stop buffers.
- ☐ Removing and installing rear lid seal ⇒ [page 42](#)

4 - Cover for rear lid lock

- ☐ Attached to rear lid lock

5 - Rear lid lock

- ☐ To remove, unscrew nuts and disengage cable.

6 - Cover for rear lid lock

- ☐ Detach before removing rear lid trim
- ☐ When installing, cover must engage securely in rear lid lock.

7 - Nuts

- ☐ 21 Nm

8 - Seal

- ☐ Removing and installing

9 - Adjusting buffer

- ☐ On body

10 - Bolt

- ☐ 8 Nm

11 - Striker plate

- ☐ Adjusting:
 - Hand-tighten nuts ⇒ [Item 7 \(page 33\)](#) (it must still be possible to move striker plate).
 - Carefully close rear lid until it is flush with rear side panels.
 - Carefully open rear lid and tighten bolts ⇒ [Item 7 \(page 33\)](#) .

12 - Nuts

- ☐ 21 Nm

13 - Bolt

- ☐ 8 Nm

14 - Stop

- ☐ On rear lid

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2.2 Exploded view - gas strut

1 - Gas strut

- ❑ To remove, release plastic clip -arrow- with pliers ⇒ [page 43](#) and detach gas strut from ball stud.



Note

Note correct position when installing: cylinder end of gas strut must be engaged on body end.

- ❑ When removing, open and prop up rear lid.



Note

- ◆ If gas strut has been removed make sure it is stalled in the correct position.
- ◆ Damping element must be engaged on body.

Installing

Install in reverse order; note the following:

- When installing, gas struts are merely pressed onto ball-head pins.
- Tightening torque for ball-head pins
⇒ [Item 3 \(page 34\)](#)

2 - Rear lid

3 - Ball-head pin

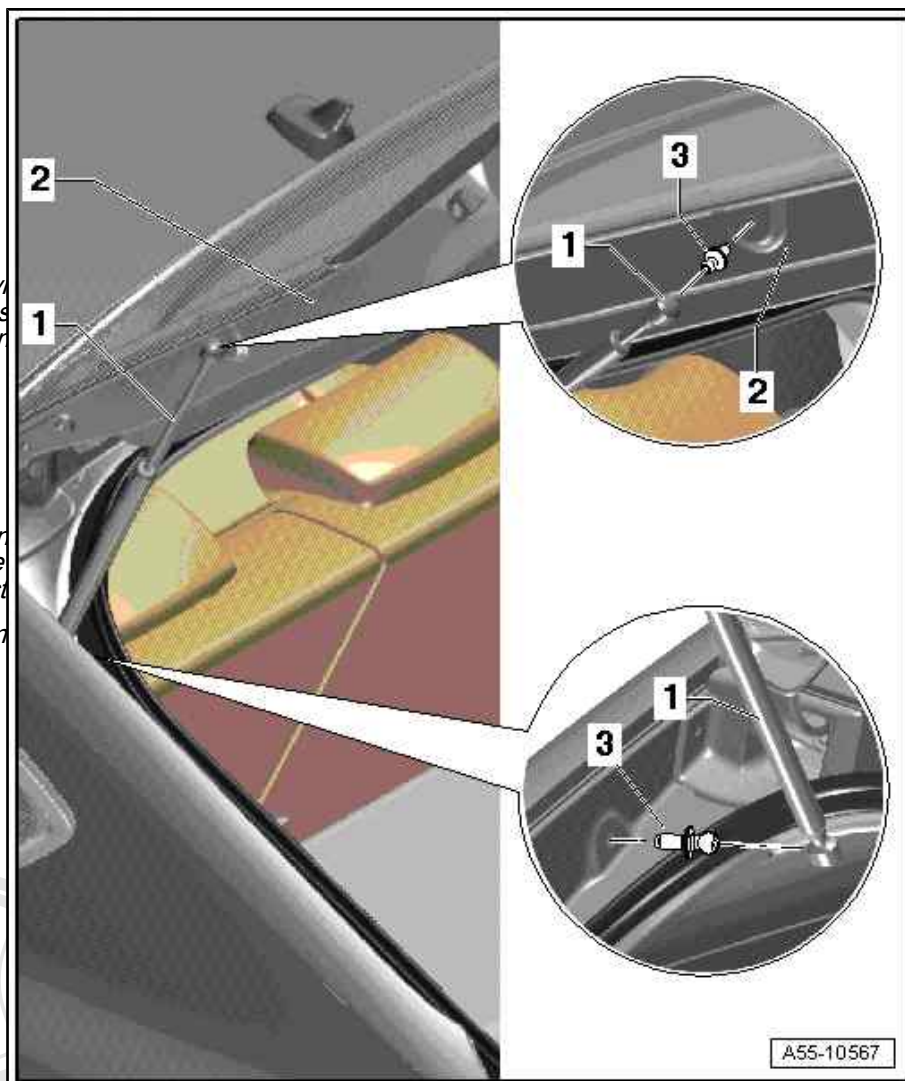


Note

If ball-head pin has been removed or adjusted, it must be renewed.

- ❑ 20 Nm

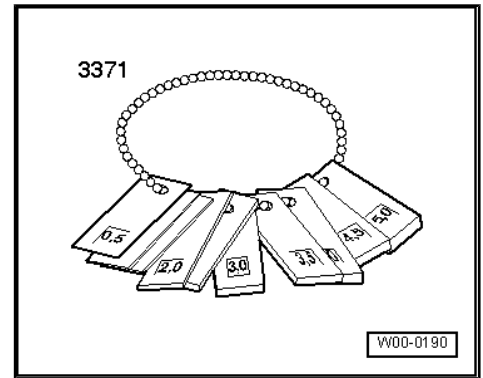
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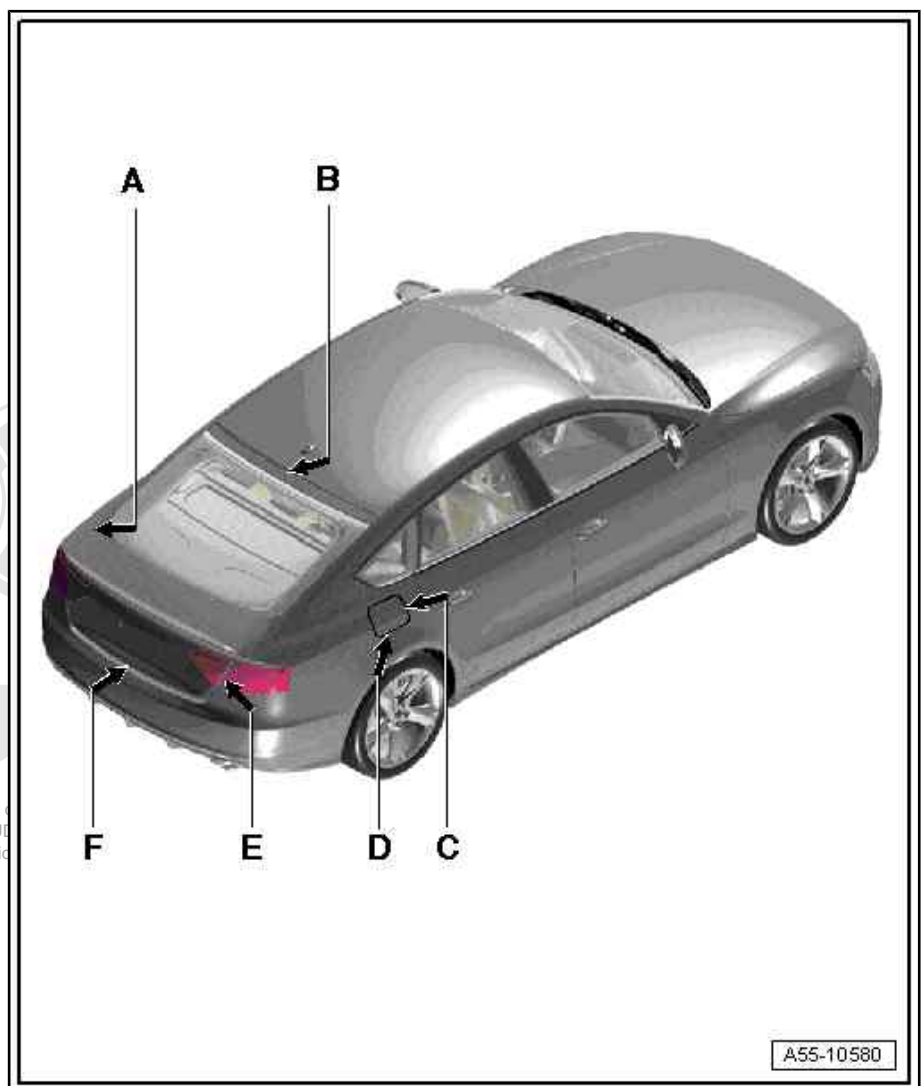
2.3 Adjusting rear lid

Special tools and workshop equipment required

◆ Setting gauge - 3371-



Gap widths



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The gap widths can be checked using the setting gauge - 3371- .

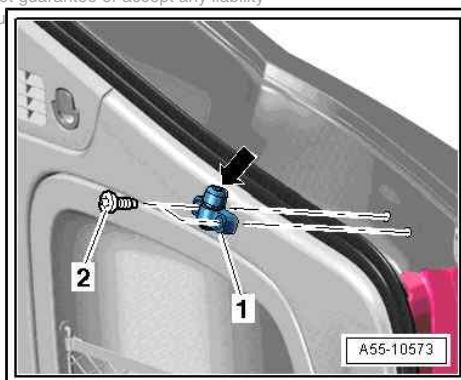
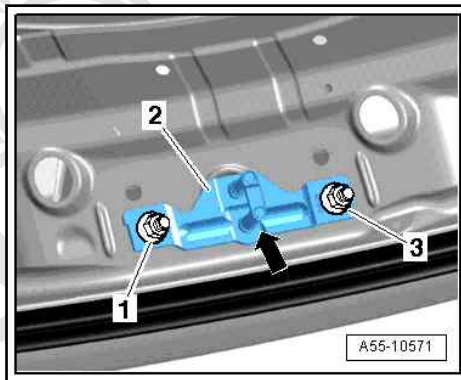
Adjusting via striker plate

- Remove rear cross panel trim ⇒ General body repairs, interior; Rep. gr. 70 ; Luggage compartment trim panels; Removing and installing lock carrier trim .



Note

- ◆ Prior to adjustment, completely screw in adjusting buffers on rear lid ⇒ [page 37](#).
- ◆ Height of rear lid at rear end can be adjusted by moving striker plate -2-.
- Hand-tighten nuts -1- and -3-.
- Close rear lid and align with body contour.
- Rear lid lock must be engaged in main catch (2nd stop).
- Open rear lid in this position and tighten nuts -1- and -3- to torque ⇒ [Item 12 \(page 33\)](#).
- Unscrew adjusting buffer -arrow- until stop buffers of closed rear lid make contact with adjusting buffer.
- Check whether rear lid still closes easily. Repeat adjustment procedure if necessary.
- If rear lid does not close easily, screw in adjusting buffer slightly.



Installation position of adjusting buffer

1 - Rear lid

- ❑ If correctly adjusted, adjusting buffer -3- must be slightly compressed on coming into contact with stop buffer -2- with rear lid closed.

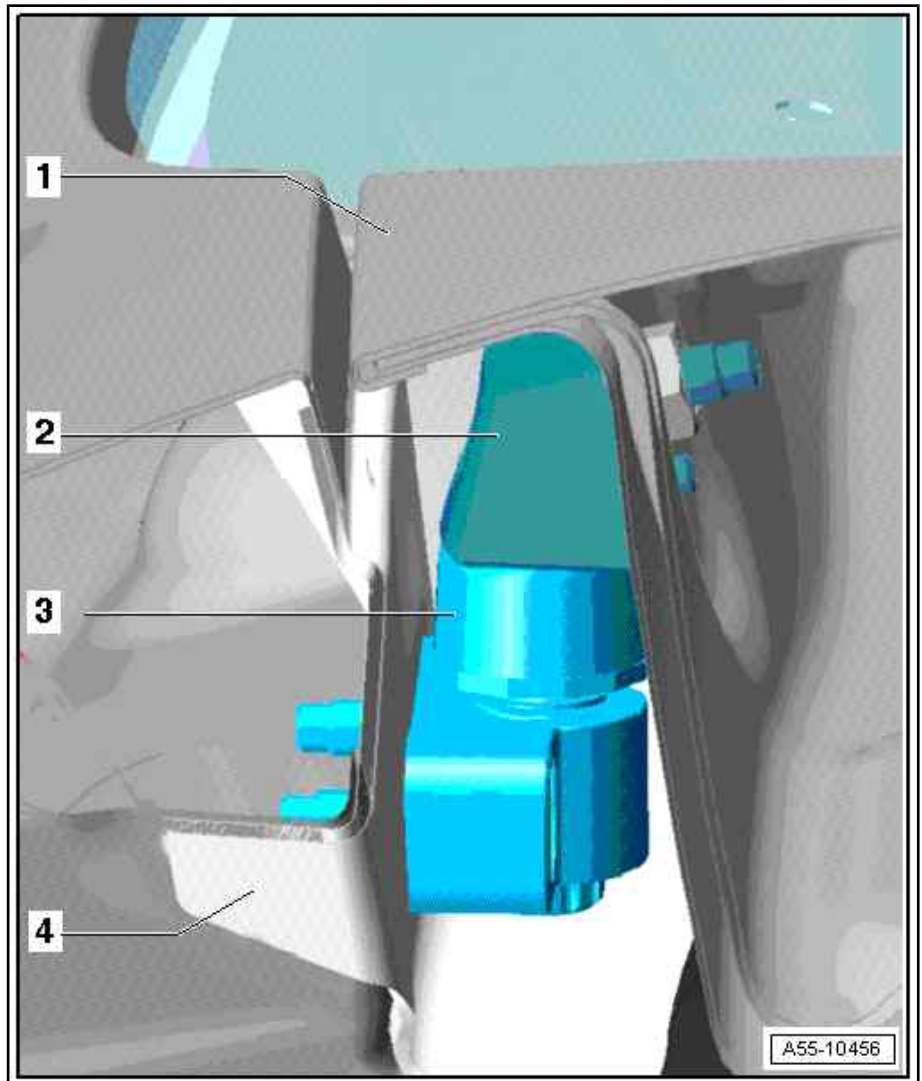
2 - Stop on rear lid

- ❑ Installing ⇒ [page 38](#)
- ❑ When installing, tighten corresponding bolts to 8 Nm.

3 - Adjusting buffer on body

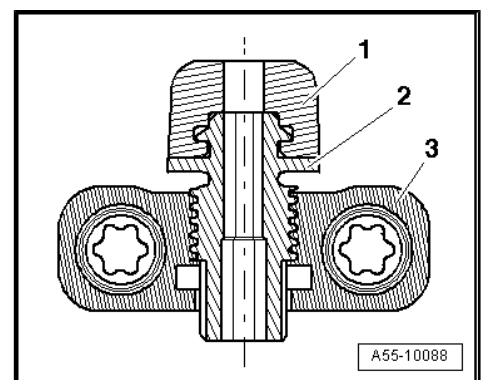
- ❑ Adjusting buffer is secured with bolts on body.
- ❑ When installing, tighten corresponding bolts to 8 Nm.
- ❑ The height is adjusted via the adjuster screw.
- ❑ If correctly adjusted, adjusting buffer must be slightly compressed on coming into contact with stop buffer (on rear lid) with rear lid closed.

4 - Side panel



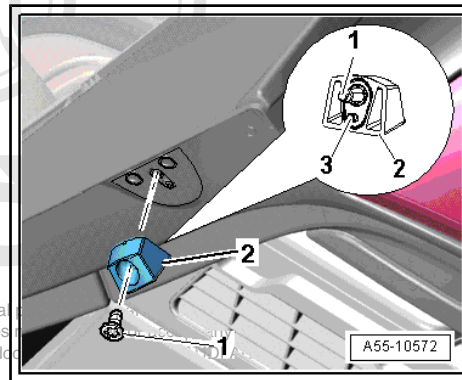
Adjuster screw for adjusting buffer

- Before adjusting rear lid, screw adjuster screw -2- with protective cap -1- completely into adjusting buffer -3-.
- Unscrew adjuster screw -2- until protective cap -1- is slightly compressed on coming into contact with stop buffer on rear lid with rear lid closed.
- Make sure that rear lid has no play and closes in line with body contour by pressing or pulling on side edges of rear lid beneath rear window.
- Repeat adjustment if necessary.



Stop on rear lid

- When fitting stop -2-, tighten bolt -1- to specified torque
⇒ [Item 13 \(page 33\)](#).
- Height adjustment is performed via adjusting buffers on body.



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2.4 Removing and installing rear lid lock

1 - Cover

- ❑ Before removing rear lid trim, detach from rear lid lock.

2 - Cover for rear lid lock

- ❑ Cover should engage audibly in rear lid lock on installation.

3 - Rear lid lock

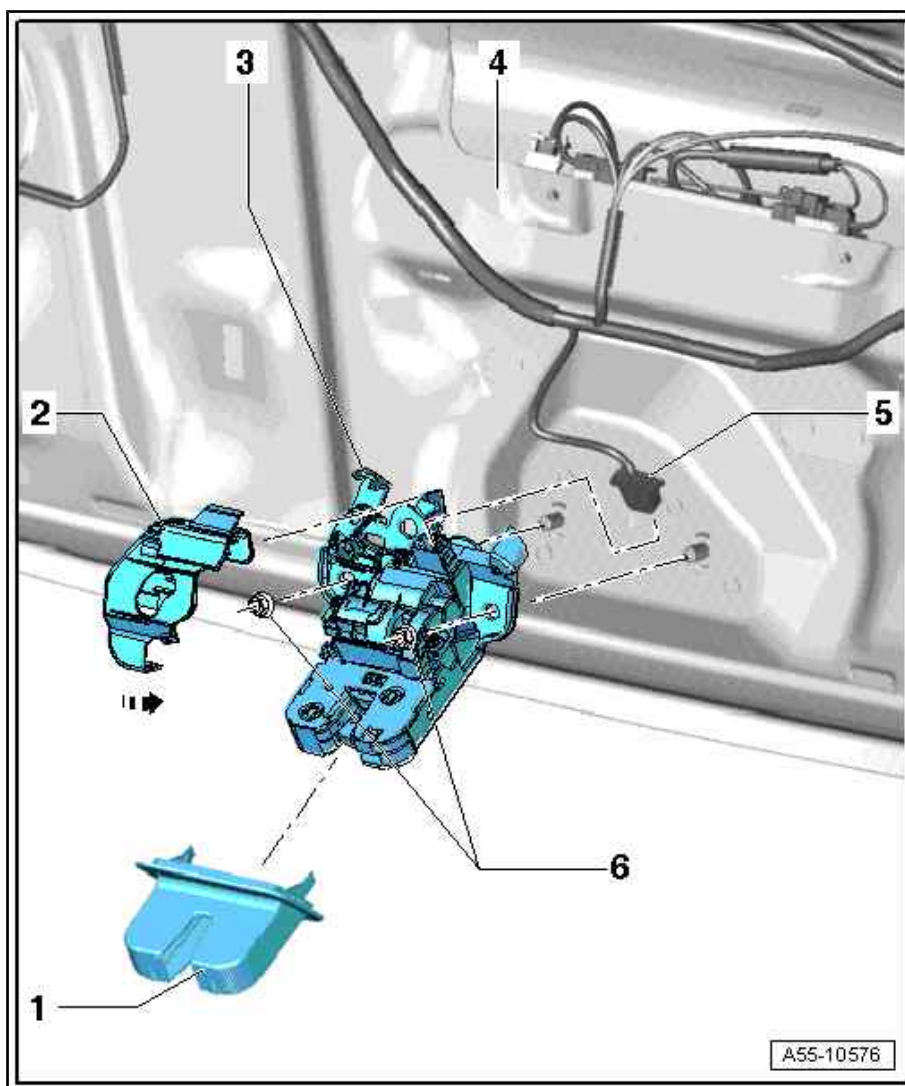
- ❑ Before removing, detach cover for rear lid lock.
- ❑ Rear lid trim removed ⇒ General body repairs, interior; Rep. gr. 70 ; Luggage compartment trim panels; Removing and installing rear lid trim (bottom) .
- ❑ Unplug electrical connector.
- ❑ Unscrew nuts and detach rear lid lock.
- ❑ Pull rear lid lock with clip out of centring hole.

4 - Rear lid

5 - Electrical connector

6 - Nut

- ❑ 21 Nm



2.5 Removing and installing hinges

Note

- ◆ When renewing the hinges on both sides, remove and install them one after the other (left and right).
- ◆ Before removing, mark position of hinges on rear lid.
- ◆ Use marks -arrow- on rear lid hinge for adjustment in longitudinal direction.

1 - Rear lid hinge

Removing:

- Pull off cover for rear lid hinge ➔ [page 40](#).
- Lower moulded headliner in rear area of nuts.

Note

To prevent any damage to lid or body, prop up and support rear lid.

- First unscrew nuts -3- from roof.
- Unscrew bolts from top of rear lid hinge.
- Unscrew bolts from sides of rear lid hinge and detach hinge.

Installing:

- Insert hinge in body and loosely attach it to roof frame with nuts -3-.
- Then loosely secure hinge at top with bolts -4- and at side with bolts -2-.
- Align hinge according to markings made on roof and tighten nuts to specified torque.

- Align rear lid according to markings made on rear lid hinge and tighten bolt -4- to specified torque.
- Tighten bolts -2- to specified torque on both sides.

2 - Bolt

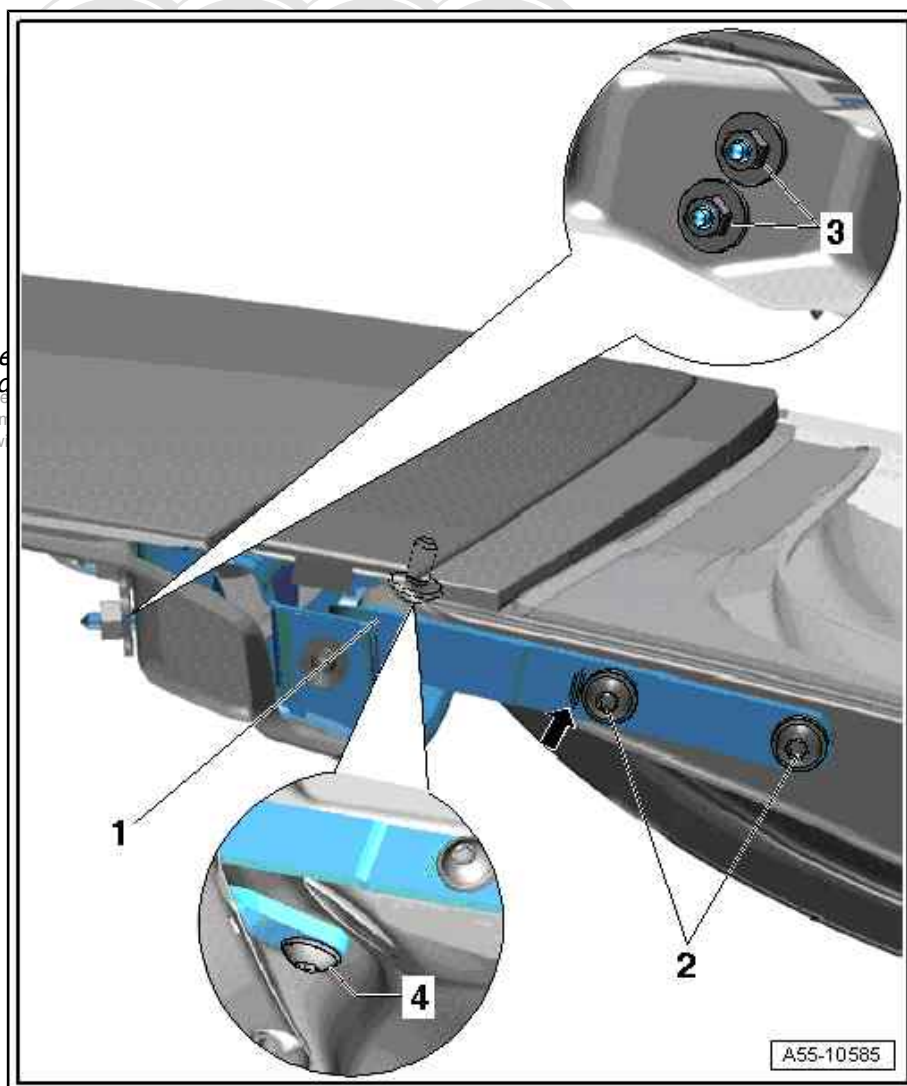
- ☐ 21 Nm

3 - Nut

- ☐ 21 Nm

4 - Bolt

- ☐ 21 Nm



Removing cover for rear lid hinge

1 - Hinge cover

- Pull out clip -3- and spreader pin -2-.
- Guide out hinge cover behind rear lid hinge and detach.

2 - Spreader pin

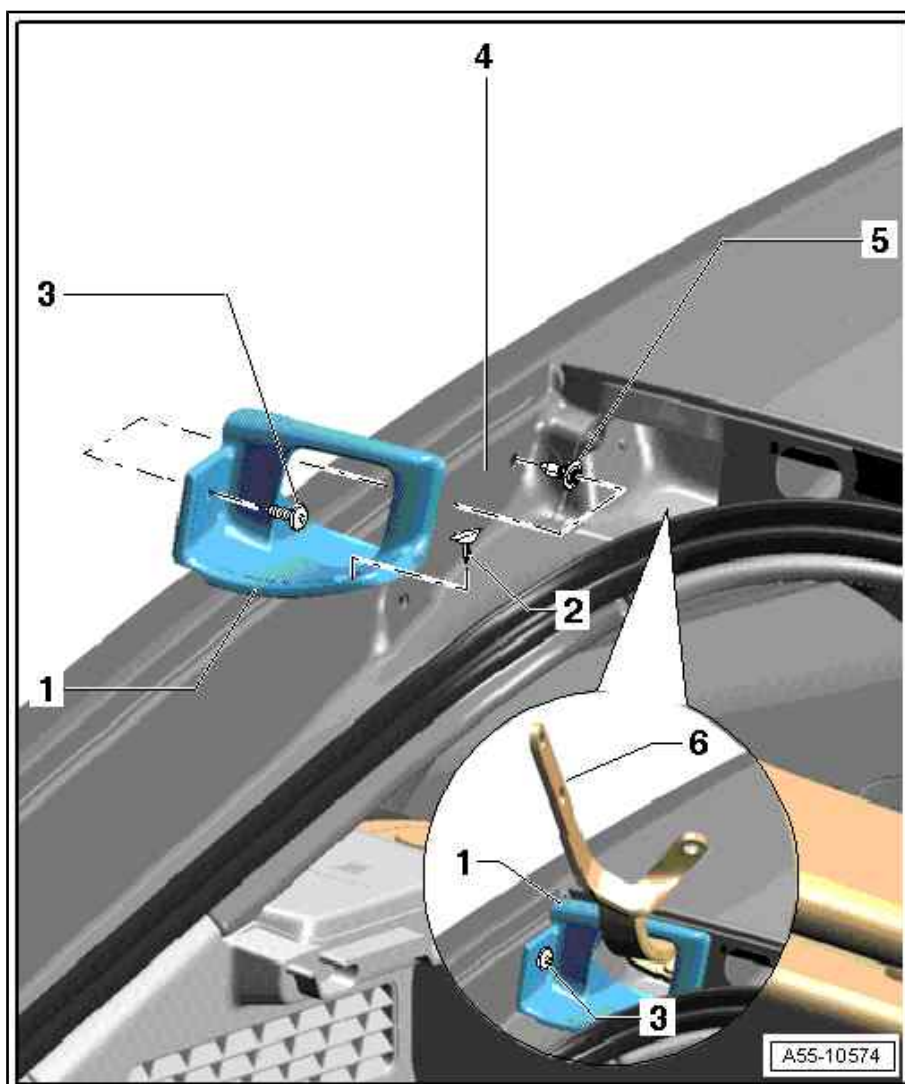
3 - Clip

4 - Side frame

5 - Bush

- Press into side frame

6 - Rear lid hinge



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2.6 Manual release for rear lid lock

1 - Cover for rear lid trim

- Prise out

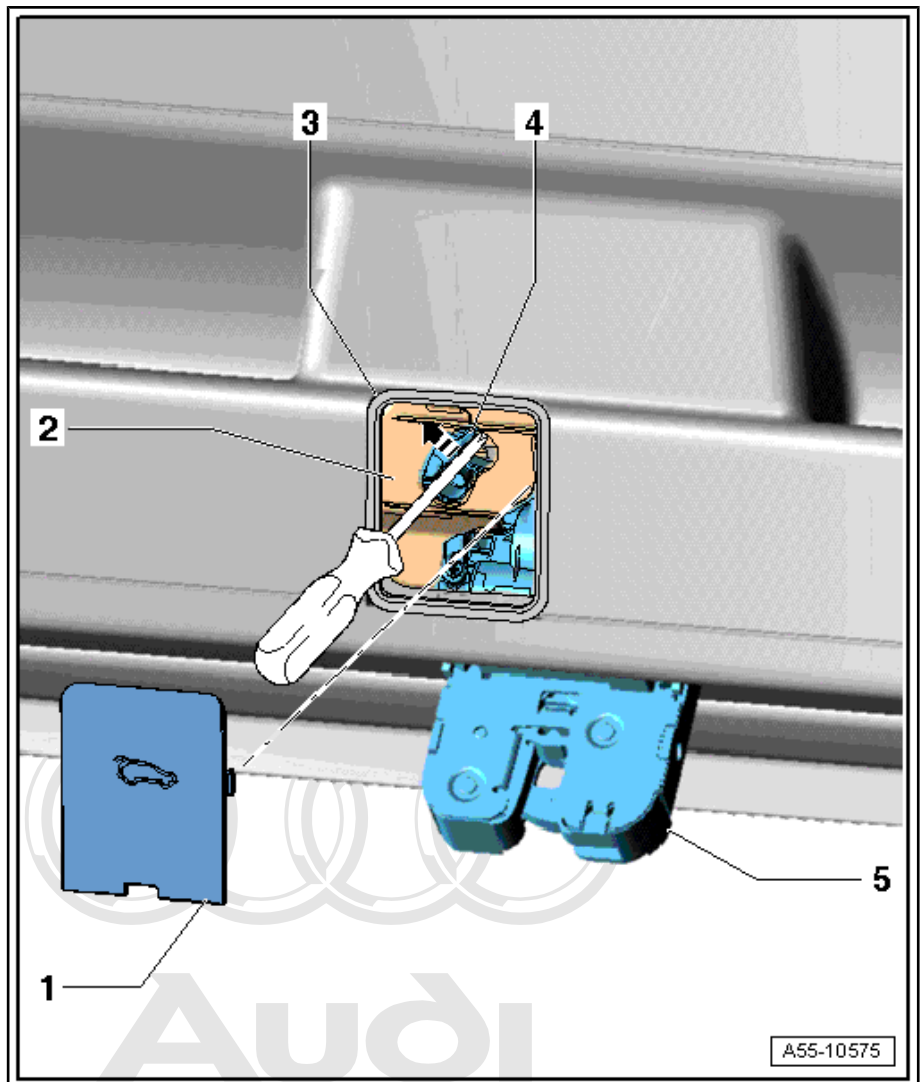
2 - Cover for rear lid lock

3 - Rear lid trim

4 - Release lever for rear lid lock

5 - Rear lid lock

- To release rear lid lock manually, insert a screwdriver through cover for rear lid lock and press release lever upwards.



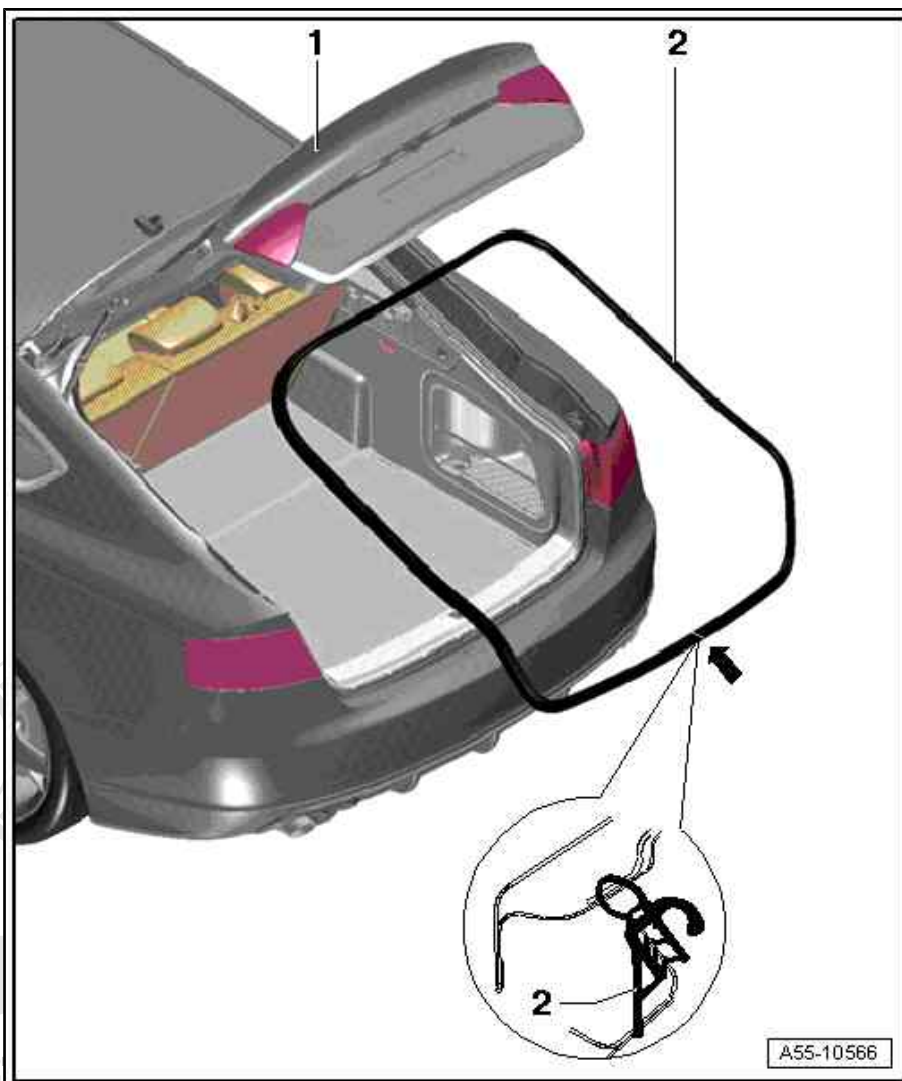
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2.7 Removing and installing rear lid seal

1 - Rear lid

2 - Rear lid seal

- ❑ To remove, pull seal off body flange.
- ❑ When installing, align seal with butt joint -arrow- towards centre of vehicle.
- ❑ Starting from butt joint, press seal onto body flange all around



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Renewing rear lid seal (top)

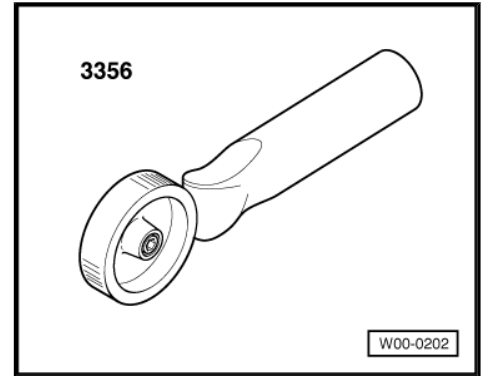


Caution

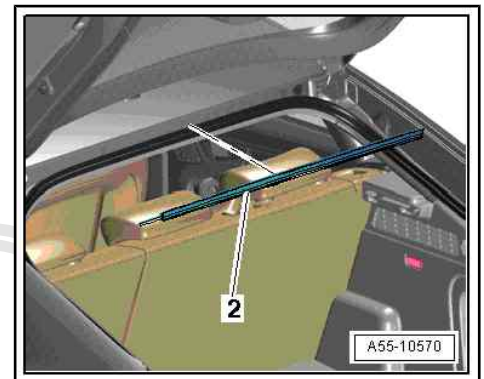
- ◆ *The bonding surfaces on the body must be free of dust and grease.*
- ◆ *Clean bonding surfaces with cleaning solution - D 009 401 04- .*
- ◆ *Heat bonding surfaces with a hot air blower to approx. 40°C.*
- ◆ *After installing, press on seal again with roller - 3356- .*

Special tools and workshop equipment required

◆ Roller - 3356-



- Heat seal with a hot air blower and pull seal off roof.
- Peel a little of the protective film off the new seal.
- Align seal centrally and according to edge of roof and press on.
- Peel off protective film and press seal onto roof along entire width of vehicle.



2.8 Removing and installing gas strut

Removing

- Using commercially available long-nose pliers, compress plastic clip -1- as shown and pull gas strut -2- off ball stud.

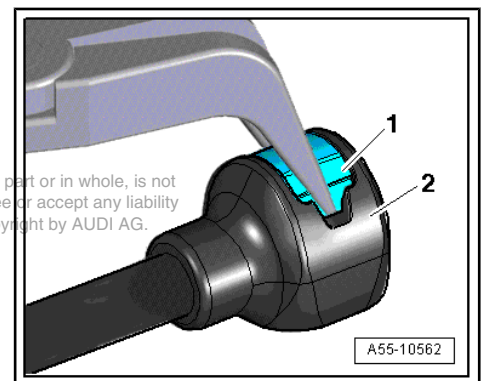
Installing



Note

- ◆ *Following complete removal, pay attention to correct position of gas strut when installing.*
- ◆ *The gas strut cylinder must be engaged on the body end.*

- Press gas strut onto ball studs, first at bottom, then at top, and engage.



2.9 Releasing gas from gas strut

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



WARNING

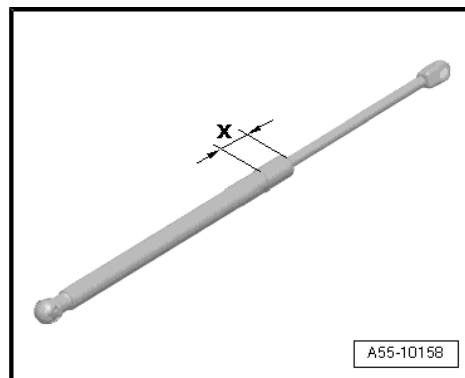
- ◆ *Only the section indicated may be clamped in the vice (accident risk!).*
- ◆ *Always wear safety goggles while sawing.*



Note

Cover area around saw cut with a cloth to catch any fluid which may escape.

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



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3 Tank flap unit

⇒ ["3.1 Exploded view - tank flap unit", page 45](#)

⇒ ["3.2 Removing and installing lid for tank flap", page 46](#)

⇒ ["3.3 Removing and installing tank flap unit", page 47](#)

⇒ ["3.4 Gap widths at tank flap", page 47](#)

⇒ ["3.5 Removing and installing tank flap cup", page 48](#)

⇒ ["3.6 Removing and installing drain hose for tank flap cup", page 49](#)

⇒ ["3.7 Removing and installing manual release for tank flap", page 51](#)

3.1 Exploded view - tank flap unit

1 - Cable for manual release

2 - Tank filler flap locking motor - V 155-

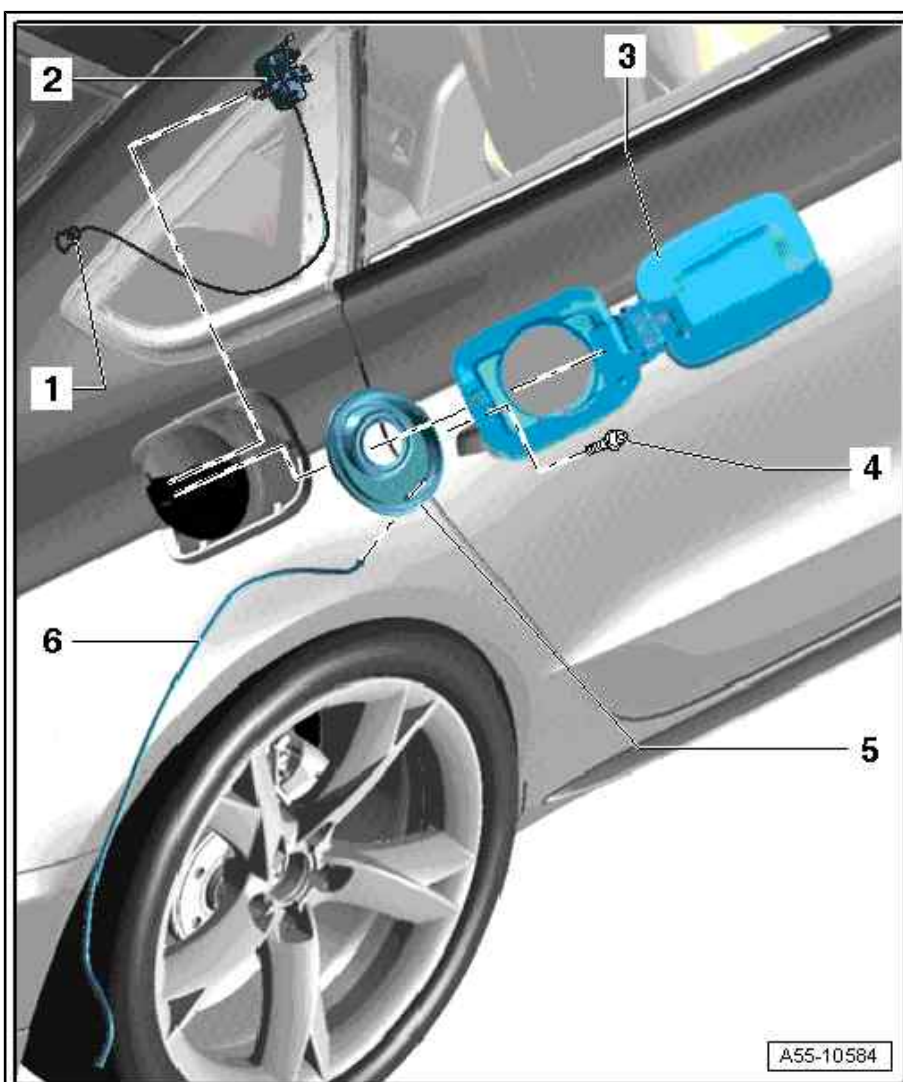
- ☐ Removing:
 - Tank flap removed
 - Detach cable from convenience system central control unit - J393- in luggage compartment and pull through towards the front.
 - Detach tank filler flap locking motor - V 155- from body flange towards the front and unplug electrical connector.
- ☐ Installing:
 - Push tank filler flap locking motor - V 155- onto flange and at the same time push manual release through into luggage compartment.

3 - Tank flap unit

- ☐ Removing ⇒ [page 47](#)
- ☐ Installing
 - Guide cable through opening in tank flap unit.
 - Insert tank flap unit at an angle until retaining tabs engage at flange in side panel.
 - Bolt together tank flap unit and tank filler flap locking motor with bolt -4-.

4 - Bolts

- ☐ 1.7 Nm



A55-10584

5 - Tank flap unit

6 - Drain hose

- ❑ When installing, make sure that component is in correct position ⇒ [page 49](#) .

Renewing tank flap unit

1 - Tank flap unit

2 - Tank filler flap locking motor - V 155-

3 - Bolt

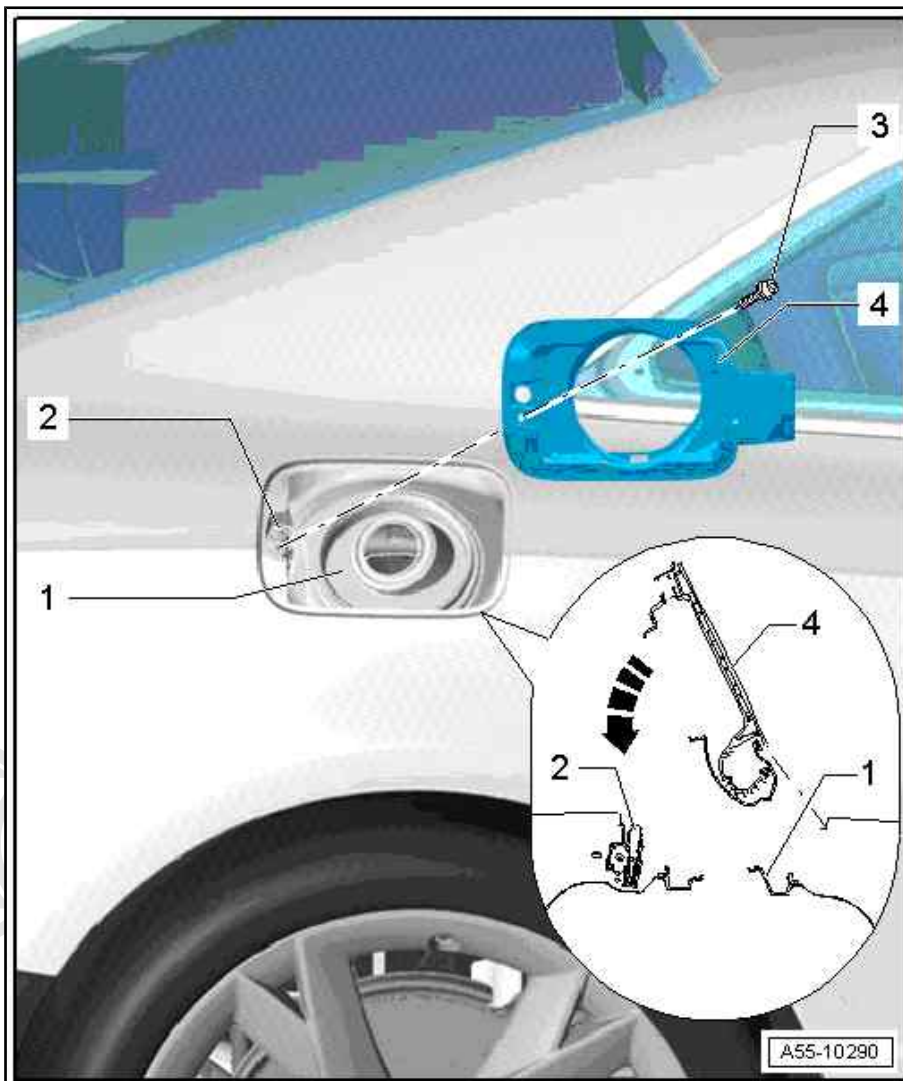
- ❑ 1.7 Nm

4 - Tank flap unit

- Removing ⇒ [page 47](#)

5 - Tank flap

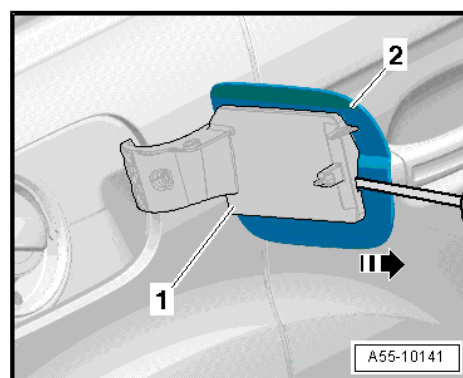
- ❑ Must be renewed following removal
- To remove, unscrew bolt -3- and pull tank flap out of side panel at an angle, starting from the rear.
- Guide manual release cable through opening in tank flap unit.



3.2 Removing and installing lid for tank flap

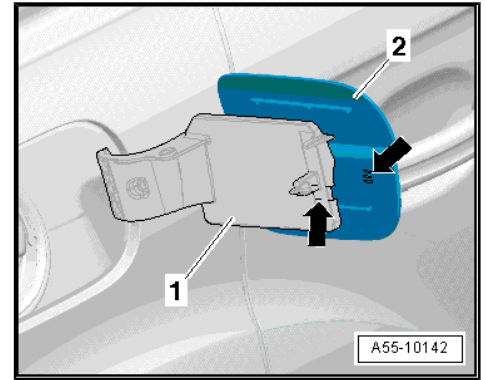
Removing

- Insert a screwdriver between flap -2- and flap mounting -1- as shown to release retainer.
- Pull flap slightly towards rear -arrow- out of retainer.
- Detach flap to the side.



Installing lid for fuel tank flap

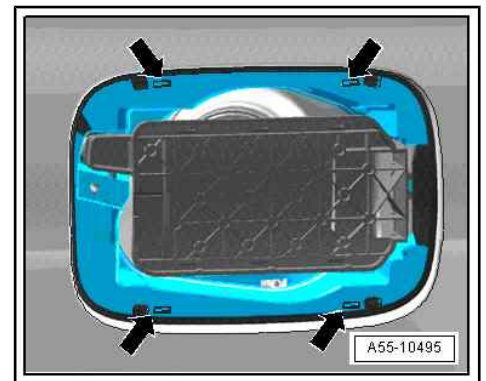
- Insert flap into recesses on mounting.
- Push flap -2- forwards until retainer -arrows- on mounting -1- engages.



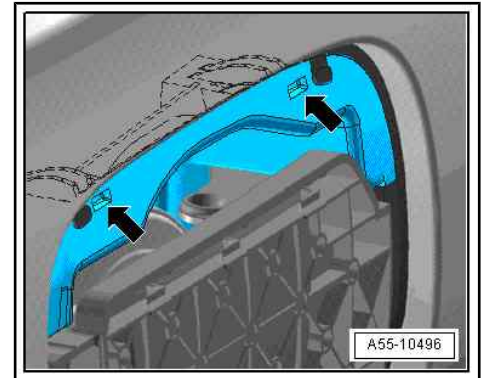
3.3 Removing and installing tank flap unit

Removing tank flap unit

- Open tank flap and release tank flap unit at points indicated by -arrows-.



- To do so, insert a small screwdriver through marked locations in tank flap unit from below at an angle and over catches (in direction of arrows).
- Pull screwdriver upwards slightly to release catches behind.
- Pull tank flap unit out of opening (one catch at a time).



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3.4 Gap widths at tank flap

1 - Side panel

2 - Glass cover for tank flap

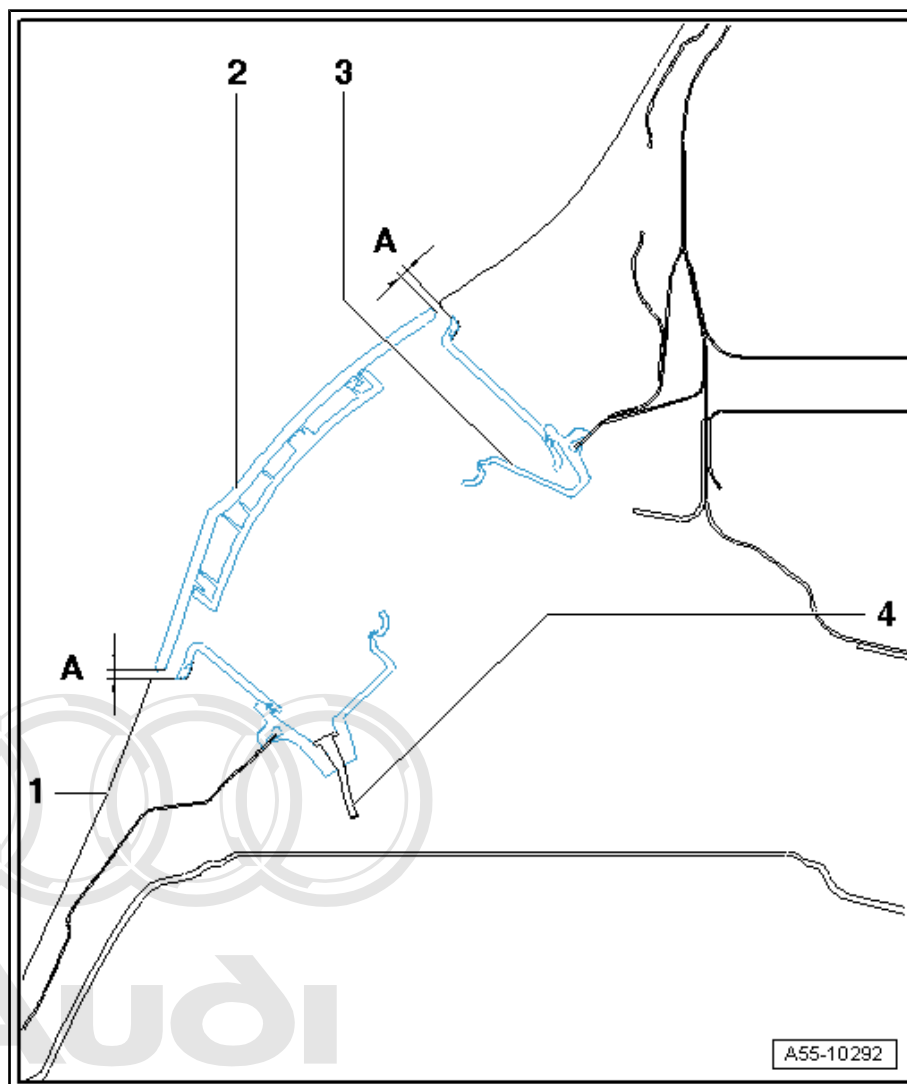
- ❑ Adjust distance -A- = 2.2 mm (even distance from side panel).

3 - Tank flap unit

- ❑ Fit onto body flange all around (as shown).

4 - Drain hose

- ❑ Route without kinking

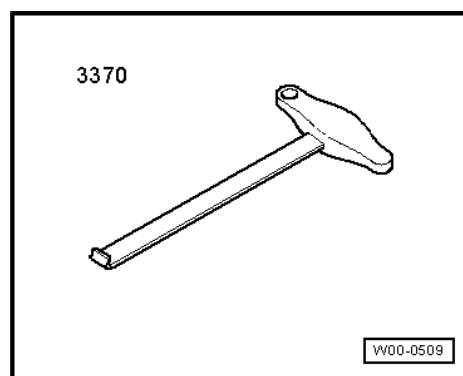


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3.5 Removing and installing tank flap cup

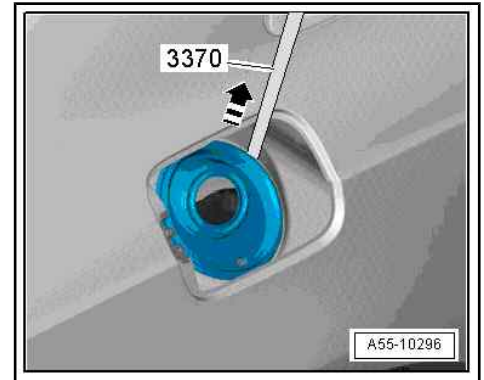
Special tools and workshop equipment required

- ◆ Front-end hook - 3370-



Removing

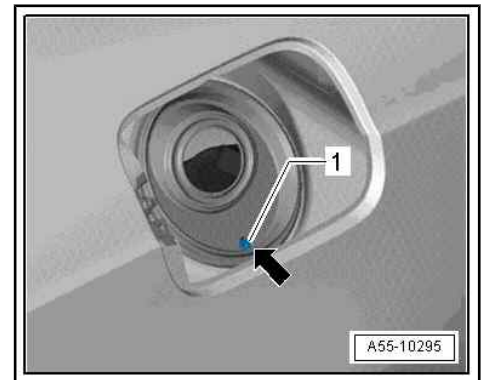
- ◆ Tank flap removed
- Lift tank flap unit vertically out of body opening with front-end hook - 3370- .



Installing

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

- To be able to route drain hose without kinking, edge of drain hole of tank flap unit must be flush with edge of hole in body -arrow-.



3.6 Removing and installing drain hose for tank flap cup



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1 - Drain hose

- Route drain hose under wheel housing liner, as shown, and insert into guide.

2 - Tank flap

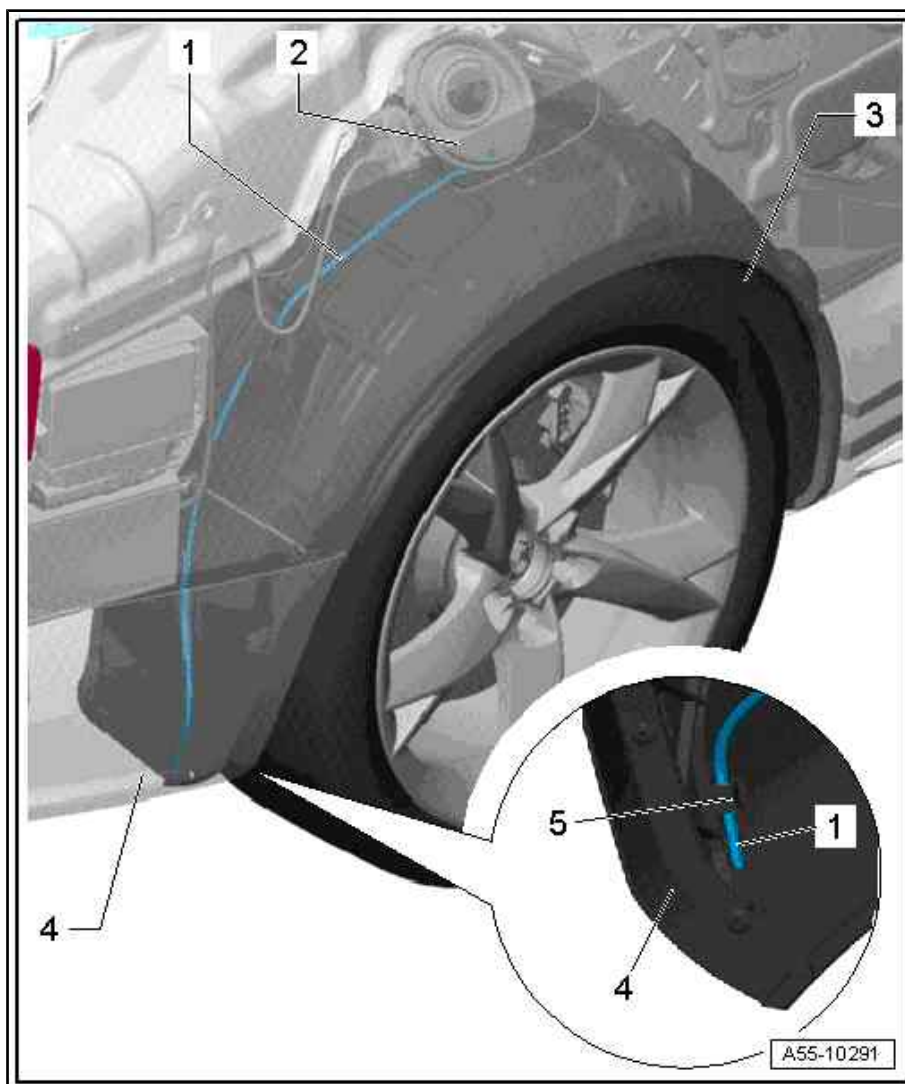
3 - Wheel housing liner

- ☐ Loosen in area of drain hose and push to side.

4 - Bumper (rear)

5 - Guide (rear)

- ☐ Drain hose inserted into guide (bottom), as shown.



Audi

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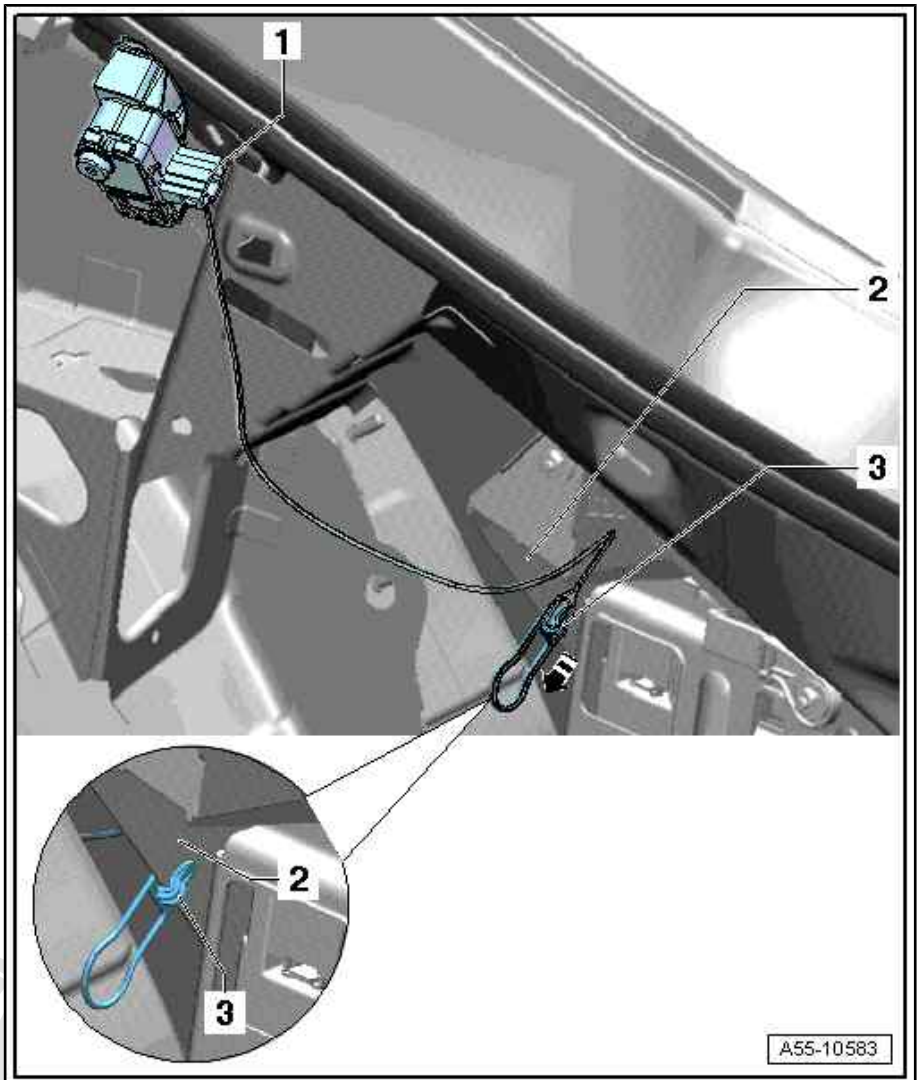
3.7 Removing and installing manual release for tank flap

1 - Tank filler flap locking motor - V 155-

2 - Cable for manual release

- ❑ Insert tank filler flap locking motor - V 155- with cable through tank flap opening, as shown.
- ❑ Pull cable through towards rear into interior and fit with lug on flange on convenience system central control unit - J393- .

3 - Side panel



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57 – Front doors, door components, central locking

1 Door

⇒ "1.1 Exploded view - door", page 52

⇒ "1.2 Removing and installing door", page 53

⇒ "1.3 Adjusting door", page 54

⇒ "1.4 Adjusting striker", page 56

⇒ "1.5 Removing and installing door arrester", page 56

⇒ "1.6 Removing and installing inner door seal", page 57

⇒ "1.7 Removing and installing outer door seal", page 58

1.1 Exploded view - door

1 - Bolt

- 32 Nm

2 - Bolt

- 8 Nm

3 - Cap

- For door arrester

4 - Door arrester

- Removing and installing
⇒ page 56

5 - Bolt

- 25 Nm

6 - Cap

- Attach to grub screw

7 - Grub screw

- 30 Nm

8 - Door hinge (top)

9 - Bolt

- 32 Nm

10 - Bolt



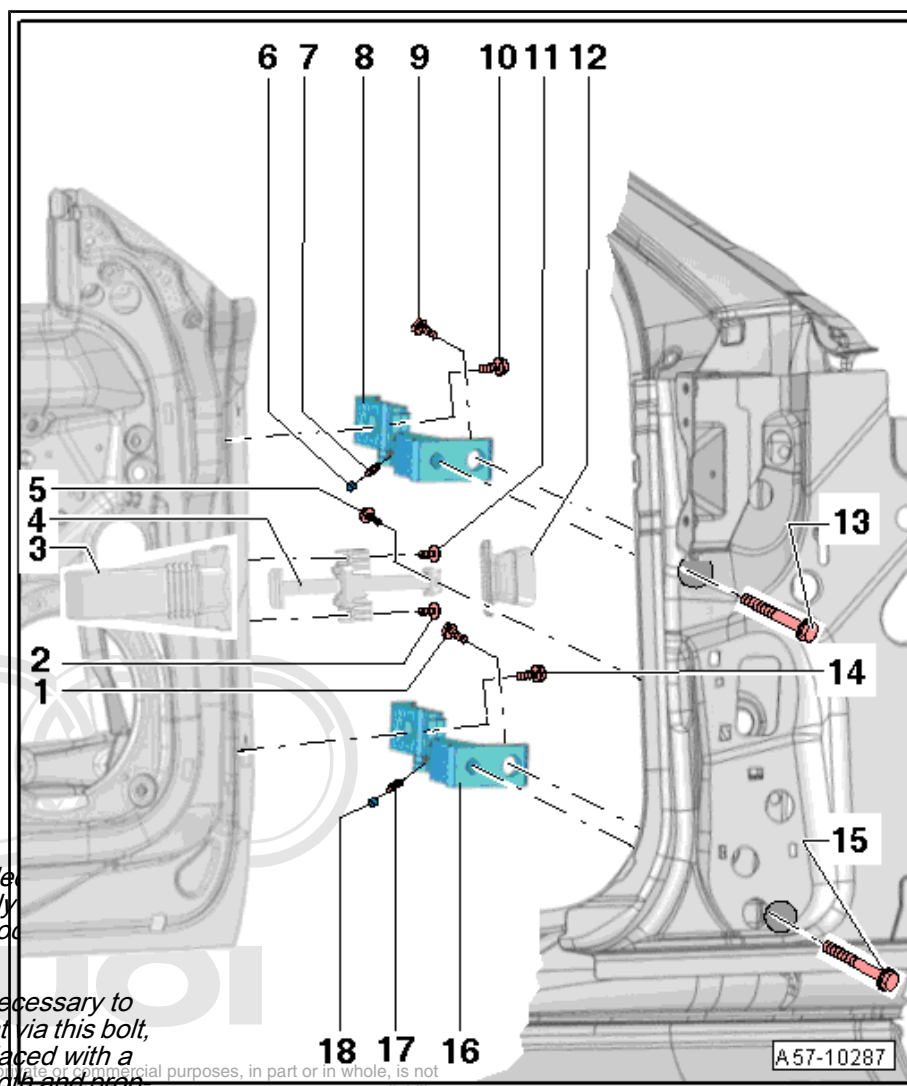
Note

- ◆ The bolt is a so-called self-aligning bolt, therefore it is usually necessary to adjust the door hinge.
- ◆ If it does become necessary to make an adjustment via this bolt, the bolt can be replaced with a bolt of the same length and property class.

- 45 Nm

11 - Bolt

- 8 Nm



12 - Sealing piece

- ☐ For door arrester

13 - Bolt

- ☐ 32 Nm

14 - Bolt



Note

- ◆ *The bolt is a so-called fitted bolt; therefore it is usually not necessary to adjust the door via this bolt.*
- ◆ *If it does become necessary to make an adjustment via this bolt, the bolt can be replaced with a bolt of the same length and property class.*

- ☐ 45 Nm

15 - Bolt

- ☐ 32 Nm

16 - Door hinge (bottom)

17 - Grub screw

- ☐ 25 Nm

18 - Cap

- ☐ Attach to grub screw

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1.2 Removing and installing door

Removing

- Unplug door disconnecter at A-pillar ⇒ Electrical system; Rep. gr. 97 ; Connectors .
- Unscrew bolt -2- for door arrester.
- Detach caps -1- and -3- from grub screws.
- Remove grub screws -4- from door hinges (top and bottom).



Caution

Risk of paintwork damage.

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

- Carefully lift door off hinges.

Installing

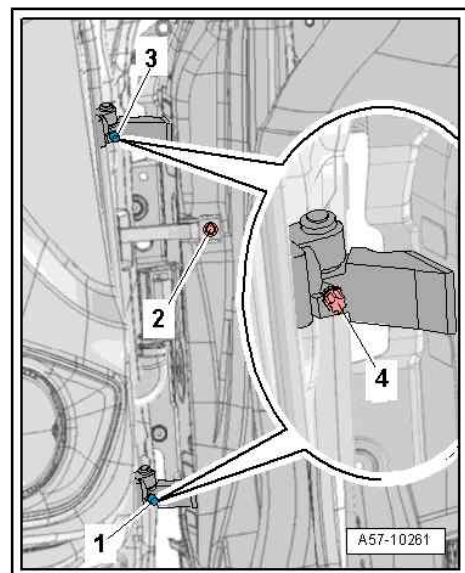
- Tightening torque ⇒ [page 52](#)

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



Note

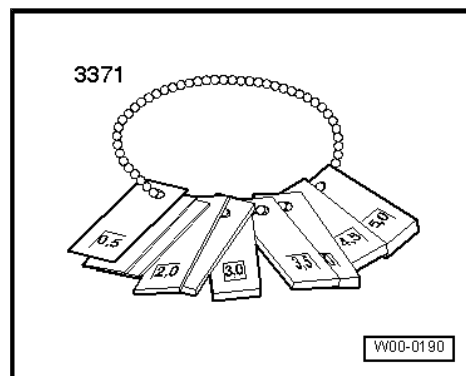
No adjustment has to be performed after the front door has been installed.



1.3 Adjusting door

Special tools and workshop equipment required

- ◆ Setting gauge - 3371-



Gap widths

A - Door window to side window

- Flush alignment -a- = ± 1.0 mm
- Parallel adjustment = 1.0 mm

- 1- Door window
- 2- Side window

- Adjusting ⇒ page 180

B - Door to side panel (rear)

- Gap width -b- = 3.4 ± 0.5 mm
- Flush alignment = ± 0.5 mm
- Parallel adjustment = 1.0 mm

- 3- Door
- 4- Side panel

- Adjusting ⇒ page 54

C - Door to side member trim

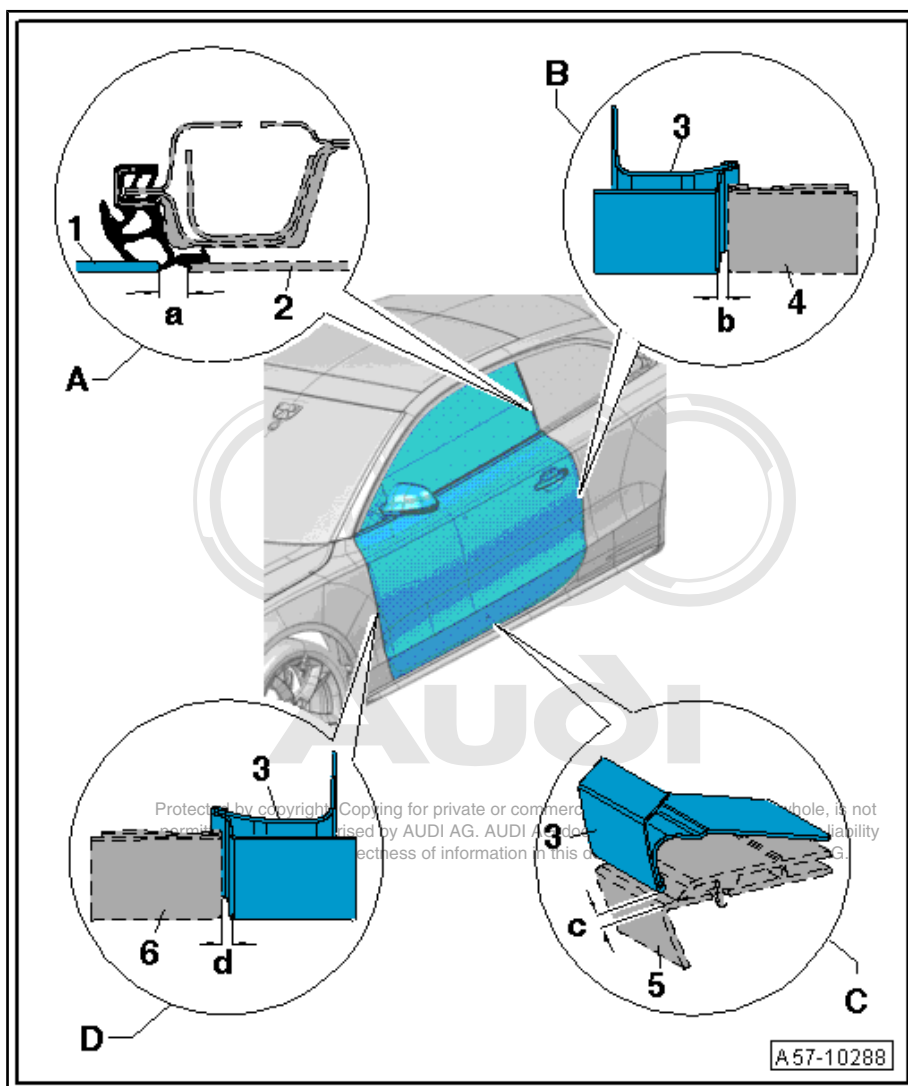
- Gap width -c- = 5.0 ± 0.5 mm
- Flush alignment = ± 1.0 mm

- 3- Door
- 5- Side member trim

- Adjusting ⇒ page 54

D - Door to side panel (front)

- Gap width -d- = 3.5 ± 0.5 mm
 - Flush alignment = ± 0.5 mm
 - Parallel adjustment = 1.0 mm
- 3- Door



-6- Side panel (front)

- ❑ Adjusting ⇒ [page 54](#)

Preparations for adjustment in longitudinal direction and towards centre of vehicle

Driver side:

- Remove dash panel cover (driver side) ⇒ General body repairs, interior; Rep. gr. 68 ; Shelves / trim panels; Removing and installing dash panel cover (driver side) .
- Remove A-pillar trim (bottom) ⇒ General body repairs, interior; Rep. gr. 70 ; Passenger compartment trim panels; Removing and installing A-pillar trim .
- Remove mounting for relay carrier (driver side) ⇒ Electrical system; Rep. gr. 97 ; Relay carriers, fuse carriers, electronics boxes .

Passenger side:

- Remove glove box ⇒ General body repairs, interior; Rep. gr. 68 ; Shelves / trim panels; Removing and installing glove box .

Both sides (continued):

- Remove connector point at A-pillar ⇒ Electrical system; Rep. gr. 97 ; Connectors .
- Gap widths ⇒ [page 54](#)

1. Longitudinal adjustment

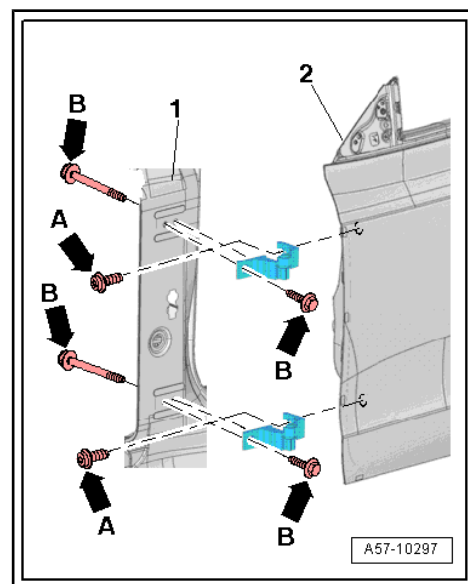
- Unscrew bolts -arrows B- at top and bottom of hinge and on A-pillar -item 1-.
- Adjust door -2- lengthwise.
- Tighten bolts -arrows B-.
- Tightening torque ⇒ [page 52](#)

2. Adjustment towards centre of vehicle:



Note

- ◆ *Bolt -A- is a so-called fitted bolt; therefore it is usually not necessary to adjust the door via this bolt.*
- ◆ *If it does become necessary to make an adjustment via this bolt, the bolt can be replaced with a bolt of the same length and property class.*
- Loosen bolts (top and bottom) -arrows A- at hinge.
- Adjust door -2- lengthwise.
- Tighten bolts -arrows A-.
- Tightening torque ⇒ [page 52](#)



1.4 Adjusting striker



Note

- ◆ The striker shim plate with the pins -arrows- must be positioned exactly in the hole.
- ◆ After adjusting the striker, the pins must be sheared off cleanly.

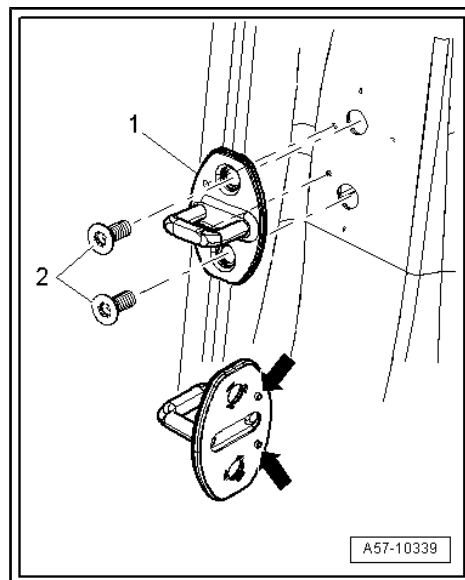
- Loosen bolts -2-.
- Move striker -1- until door is flush with body contour.



Note

- ◆ The striker is only to be used for adjustment towards the centre of the vehicle.
- ◆ Do not adjust the height of the door via the striker; otherwise the door lock will be damaged.

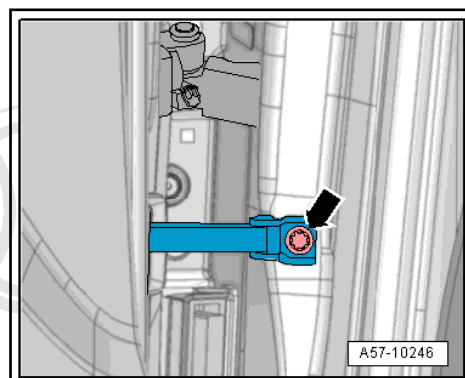
- If adjustment is correct, striker should engage centrally in door lock.
- Tighten bolts -2-.
- Tightening torque ⇒ [page 67](#)



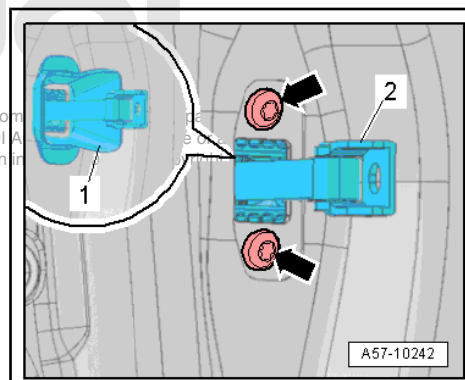
1.5 Removing and installing door arrester

Removing

- Move door window to "closed" position.
- Remove door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim (front); Removing and installing door trim (front) .
- Remove loudspeaker (bottom) ⇒ Communication; Rep. gr. 91 ; Sound system; Removing and installing front bass loudspeakers -R21- / -R23- .
- Unscrew bolt -arrow- for door arrester.



- Detach sealing piece -1- for door arrester from door opening.
- Unscrew bolts -arrows- and take out door arrester -2- inwards.



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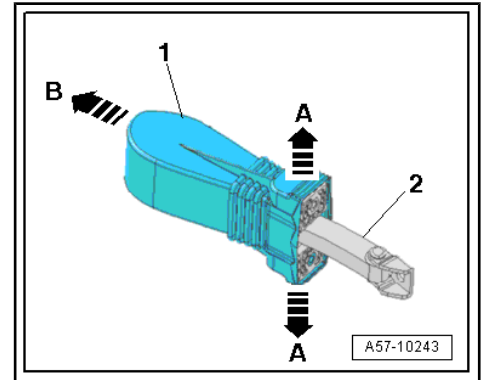
- Pull rubber sleeve -1- on door arrester to the side slightly -arrows A-.
- Detach rubber sleeve from door arrester -2- -arrow B-.

Installing door arrester

- Tightening torque ⇒ [page 52](#)

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

- Install loudspeaker (bottom) ⇒ Communication; Rep. gr. 91 ; Sound system; Removing and installing front bass loudspeakers -R21- / -R23- .
- Install door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim (front); Removing and installing door trim (front) .



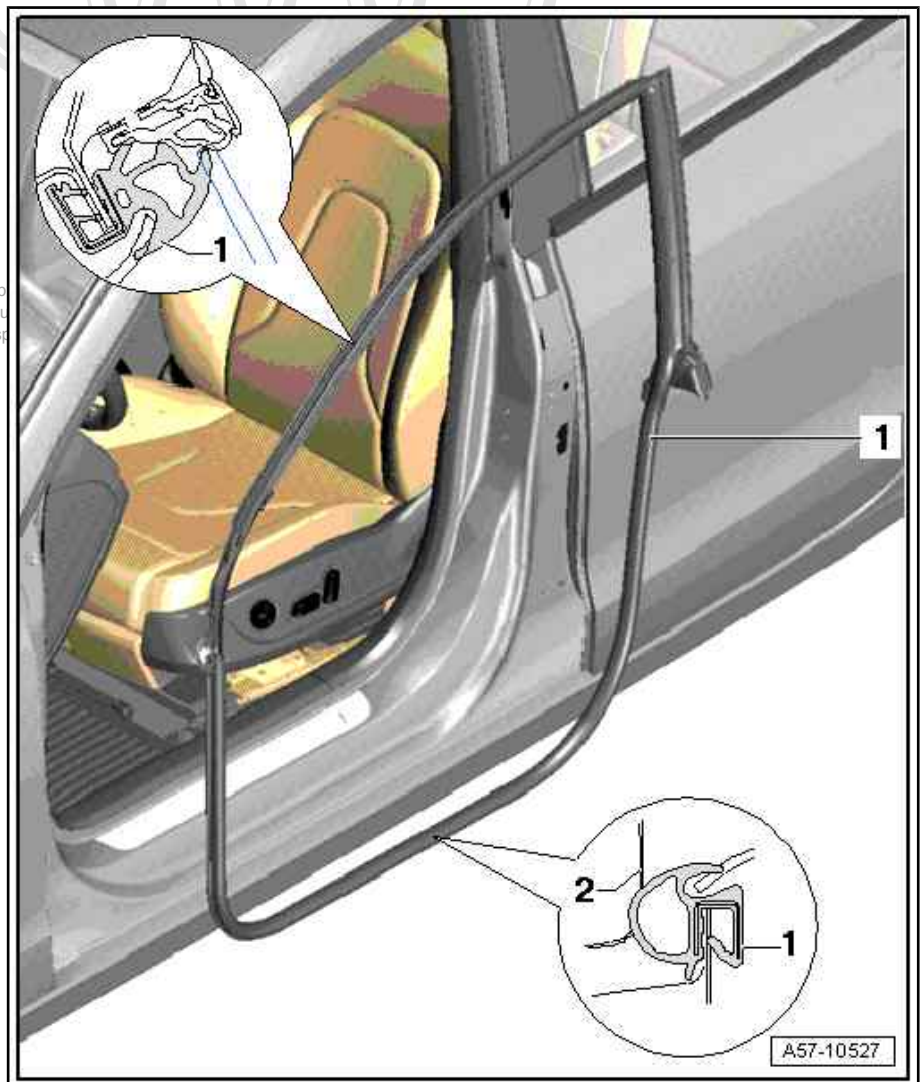
1.6 Removing and installing inner door seal

Removing and installing inner door seal

1 - Inner door seal

- ☐ B-pillar trim (top) removed
- ☐ Fitted on body flange all around
- ☐ To remove, detach from body flange.
- ☐ To install, press seal on to body flange by hand, starting in top corner of B-pillar and pressing seal on along roof.
- Insert seal at B-pillar beneath trim panel for B-pillar and in retainer.

2 - Door



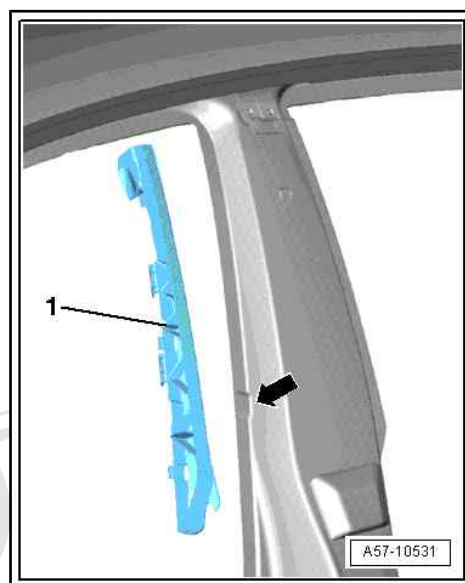
Retainer for inner door seal



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 bonding surfaces with a hot air blower to approx. 40°C.*

- Remove B-pillar trim (top) ⇒ General body repairs, interior; Rep. gr. 70 ; Passenger compartment trim panels; Removing and installing B-pillar trim .
- Detach inner door seal in area of retainer.
- Before installing, remove any adhesive residue and clean bonding surface with cleaning solution - D 009 40104- .
- Apply primer - D 355 205 A2- to bonding surface using applicator - D 009 500 25- and allow to flash off.
- Align retainer according to embossing -arrow- and press onto body flange.
- Press down firmly on bonded area again.

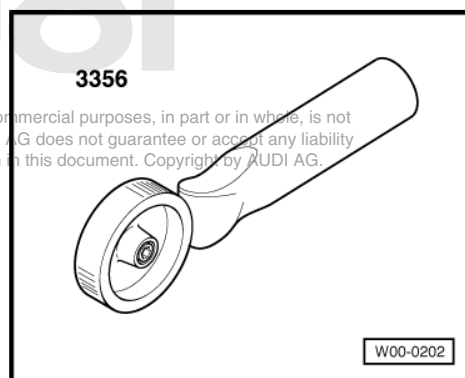


1.7 Removing and installing outer door seal

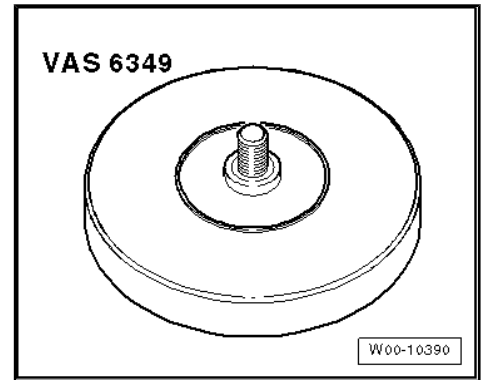
Special tools and workshop equipment required

- ◆ Roller - 3356-

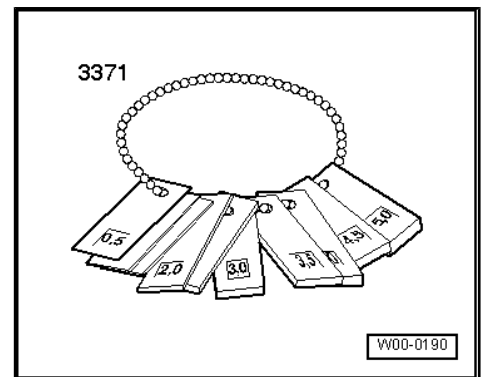
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- ◆ Adhesive strip remover - VAS 6349-



- ◆ Setting gauge - 3371-



- ◆ Template - T40038 /8-

Renewing outer door seal



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- ◆ *The complete outer door seal is bonded on and can only be renewed.*
- ◆ *The bonding surfaces must be free of dust and grease.*
- ◆ *Primer - D 355 205 A2- must be applied to bonding surfaces.*

1 - Front door

2 - Outer door seal



Note

- ◆ Prior to removal, mark position of seal on door e.g. with adhesive tape.
- ◆ To prevent any residual adhesive from remaining on door, first stretch seal lengthwise
⇒ [page 61](#) and only then pull seal off door.

□ Removing

- When removing, first stretch seal lengthwise and then gradually pull off upwards
⇒ [page 99](#).

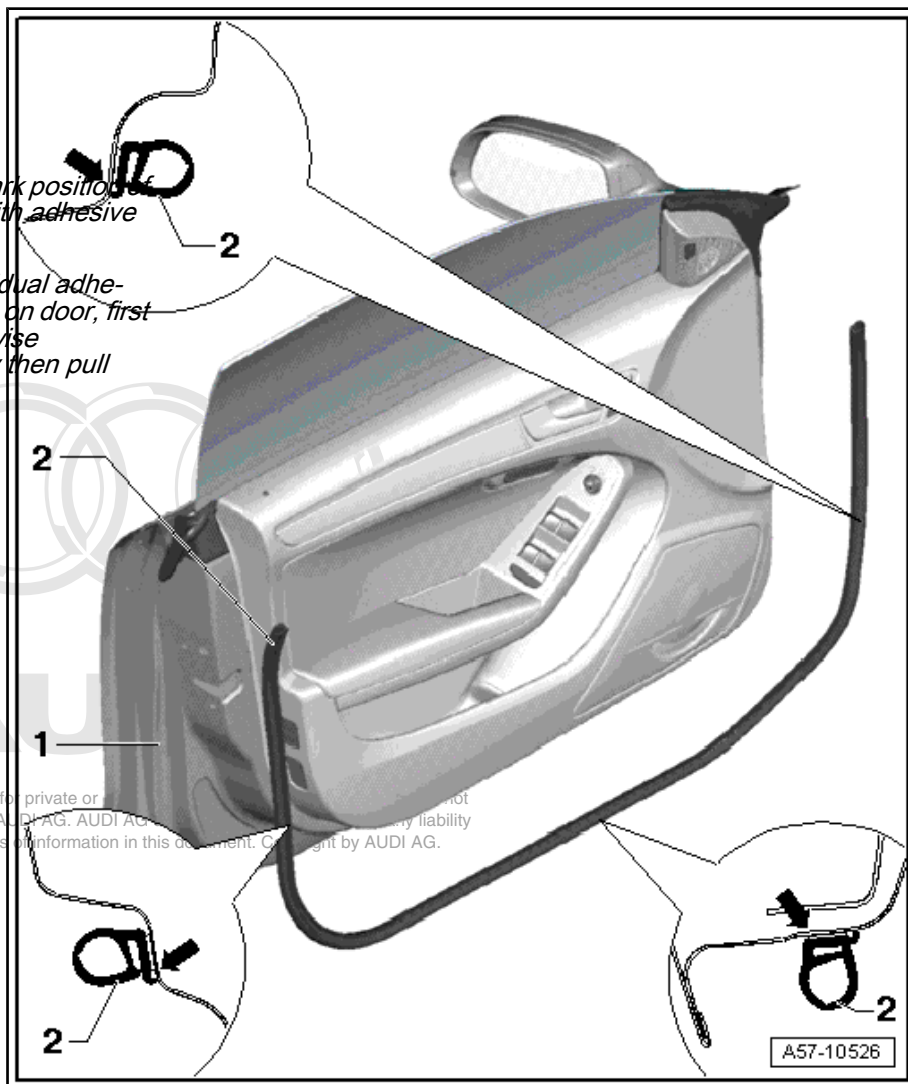
□ Installing



Caution

When installing, do not stretch or compress the door seal.

- Before installing, remove any adhesive residue and clean bonding surface with cleaning solution - D 009 40104-.
- Apply primer - D 355 205 A2- to bonding surface using applicator - D 009 500 25- and allow to flash off.
- Fasten outer door seal behind door arrester.
- Align seal in area of B-pillar up to markings in window slot trim strip and fix in position with adhesive tape.
- Peel off protective film in area of underside of door.
- Starting in centre and working outwards to both sides, press outer door seal onto underside of door according to markings.
- Gradually peel protective film off further and press on outer door seal.
- Press rear end of seal upwards into transition area of radius/according to markings and slide it into window slot trim strip in area of C-pillar.
- Press outer door seal firmly into place all around door shell using roller - 3356- ⇒ [page 62](#).



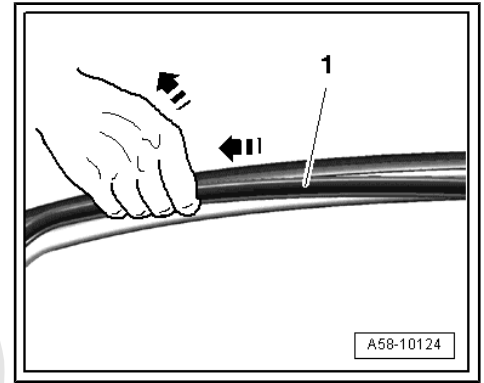
Detaching outer door seal



Note

By stretching the outer door seal lengthwise, the adhesive is separated from the door and the seal can be detached from the window frame without leaving any adhesive.

- Gradually stretch outer door seal lengthwise -arrow-, as shown, and detach.
- Proceeding step-by-step, pull outer door seal off all around door shell.
- Remove any residual adhesive with adhesive strip remover -VAS 6349-.



Installing outer door seal (on new door)



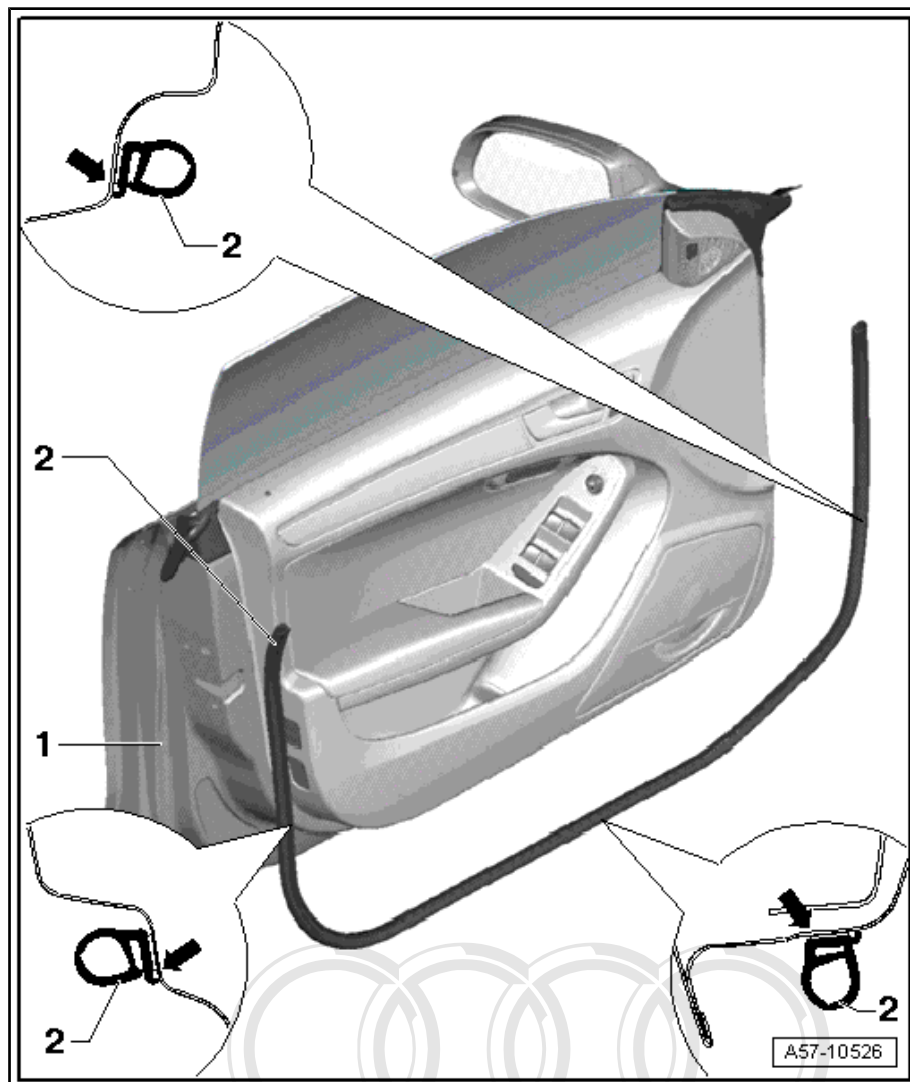
Note

- ◆ *Align ends of seal in inner window slot trim strip according to markings made on door.*
- ◆ *When installing, seal must be pressed on in transition area of inner/outer radius of door shell contour, as shown in detail views -arrows-.*
- ◆ *Starting in the centre at the bottom and working outwards in both directions, gradually press on outer door seal; front edge of seal must be pressed on in transition areas of outside radius to straight sections (as shown in detail views).*

1 - Front door

2 - Outer door seal

- Align seal in area of B-pillar up to markings in window slot trim strip and fix in position with adhesive tape.
- Peel off protective film in area of underside of door.
- Starting in centre and working outwards in both directions, press outer door seal onto underside of door.
- On the underside of the door to the embossing, the rear edge of the seal must be positioned at the runoff of the outer radius.
- Press rear end of seal upwards into transition area of radius and slide it into window slot trim strip in area of A-pillar.
- Press outer door seal firmly into place all around door shell using roller - 3356- .



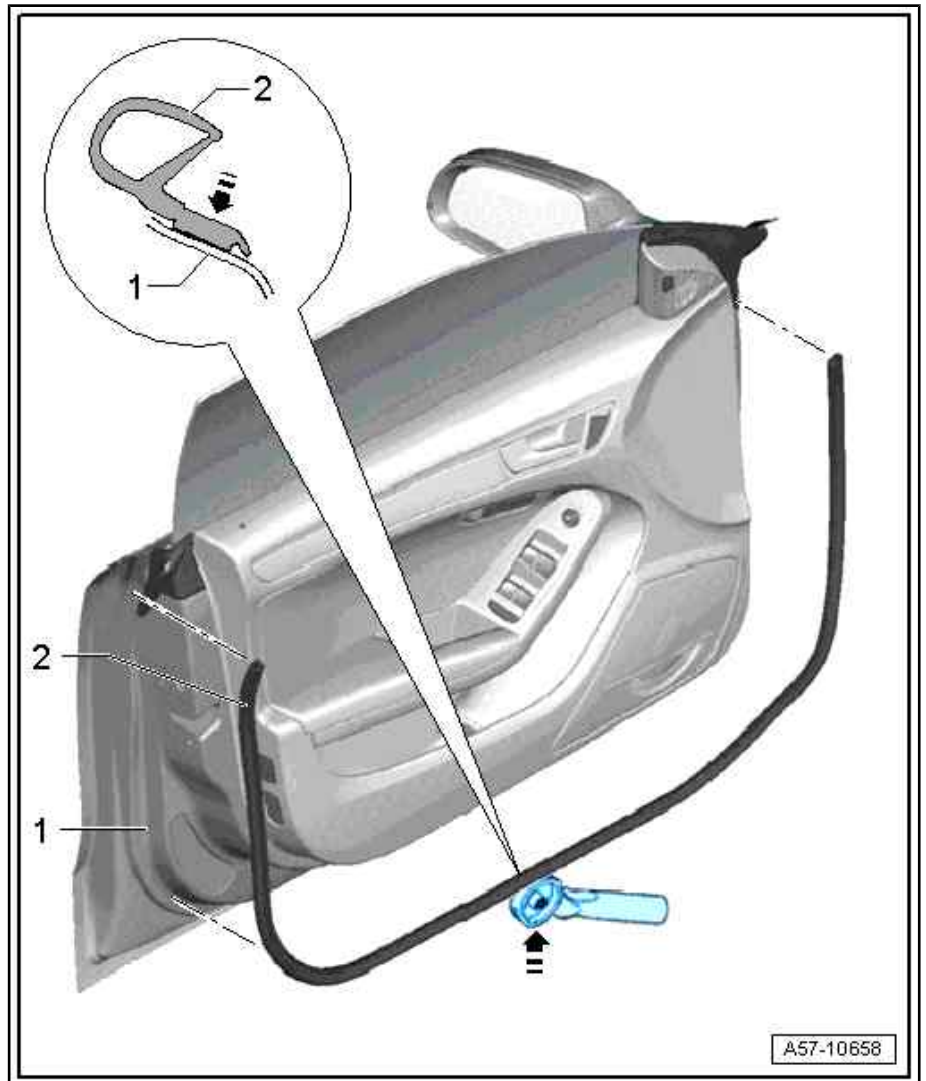
Pressing on outer door seal

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1 - Door

2 - Outer door seal

- After installing, base of outer door seal must be pressed firmly into place all around door shell, as shown in detail view.
- To do so, fold open outer door seal as shown and press firmly into place using roller - 3356- .



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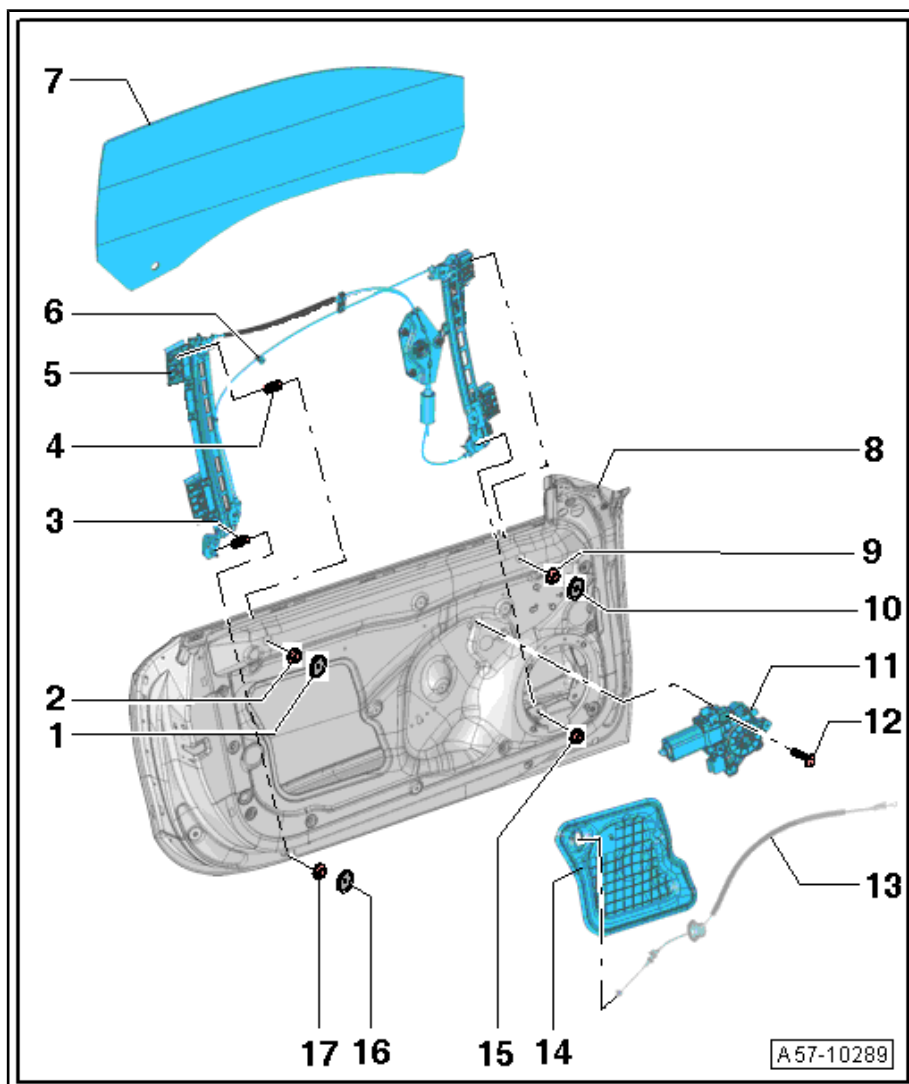
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2 Door components

- ⇒ [“2.1 Exploded view - window regulator”, page 64](#)
- ⇒ [“2.2 Exploded view - door handle and door lock”, page 65](#)
- ⇒ [“2.3 Exploded view - window slot trim strips”, page 68](#)
- ⇒ [“2.4 Removing and installing inner door cover”, page 69](#)
- ⇒ [“2.5 Removing and installing window regulator motor”, page 69](#)
- ⇒ [“2.6 Removing and installing window regulator”, page 70](#)
- ⇒ [“2.7 Removing and installing lock cylinder”, page 72](#)
- ⇒ [“2.8 Removing and installing cap for lock cylinder”, page 72](#)
- ⇒ [“2.9 Removing and installing lock cylinder guide”, page 72](#)
- ⇒ [“2.10 Removing and installing door handle”, page 73](#)
- ⇒ [“2.11 Removing and installing door handle trim”, page 74](#)
- ⇒ [“2.12 Removing and installing contact sensor for front exterior door handle G605 / G606”, page 75](#)
- ⇒ [“2.13 Removing and installing door lock”, page 75](#)
- ⇒ [“2.14 Removing and installing mounting bracket”, page 77](#)
- ⇒ [“2.15 Removing and installing operating cable for door lock”, page 78](#)
- ⇒ [“2.16 Removing and installing operating cable for interior door handle”, page 79](#)
- ⇒ [“2.17 Removing and installing striker”, page 80](#)
- ⇒ [“2.18 Removing and installing outer window slot trim strip”, page 80](#)

2.1 Exploded view - window regulator

- 1 - Sealing plug
- 2 - Nut
 - ☐ 9 Nm
- 3 - Adjusting pin (bottom)
 - ☐ For adjustment of window regulator
- 4 - Window regulator
 - ☐ Removing and installing ⇒ [page 70](#)
 - ☐ Adjusting ⇒ [page 180](#)
- 5 - Adjusting pin (top)
 - ☐ For adjustment of window regulator
- 6 - Retaining clip
- 7 - Door window
 - ☐ Removing and installing ⇒ [page 180](#)
 - ☐ Adjusting ⇒ [page 180](#)
- 8 - Door
- 9 - Nut
 - ☐ 9 Nm
- 10 - Sealing plug
- 11 - Window regulator motor
 - ☐ Removing and installing ⇒ [page 69](#)
- 12 - Bolt
 - ☐ 3x
 - ☐ 3.5 Nm
- 13 - Cable for interior door handle
- 14 - Cover for inner door panel
 - ☐ Clipped into door
 - ☐ Removing and installing ⇒ [page 69](#)
- 15 - Nut
 - ☐ 9 Nm
- 16 - Sealing plug
- 17 - Nut
 - ☐ 9 Nm



2.2 Exploded view - door handle and door lock

Door handle and door lock ⇒ [page 65](#)

Door lock ⇒ [page 67](#)

Door handle and door lock

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1 - Contact sensor for exterior door handle

- ❑ For vehicles with convenience key
- ❑ Removing and installing
⇒ **page 75**

2 - Trim for exterior door handle

- ❑ For vehicles without convenience key
- ❑ Removing and installing
⇒ **page 74**

3 - Bolt

- 2.5 Nm

4 - Backing plate (front)

- ❑ Removing and installing
⇒ "2.10 Removing and installing door handle",
page 73

5 - Operating cable

- ❑ For door lock
- ❑ Removing and installing
⇒ page 78

6 - Door lock

7 - Bolt

- ❑ Tightening torque
⇒ Item 6 (page 67)

8 - Guide

- ❑ For lock cylinder
- ❑ Removing and installing
⇒ **page 72**

9 - Mounting bracket

- ❑ Removing and installing ⇒ page 77

10 - Retaining bracket

- ☐ For lock cylinder
- ☐ With clamping bolt
- ☐ Tightening torque: 2.5 Nm

11 - Backing plate (rear)

- ❑ Removing and installing ⇒ “2.10 Removing and installing door handle”, page 73

12 - Lock cylinder

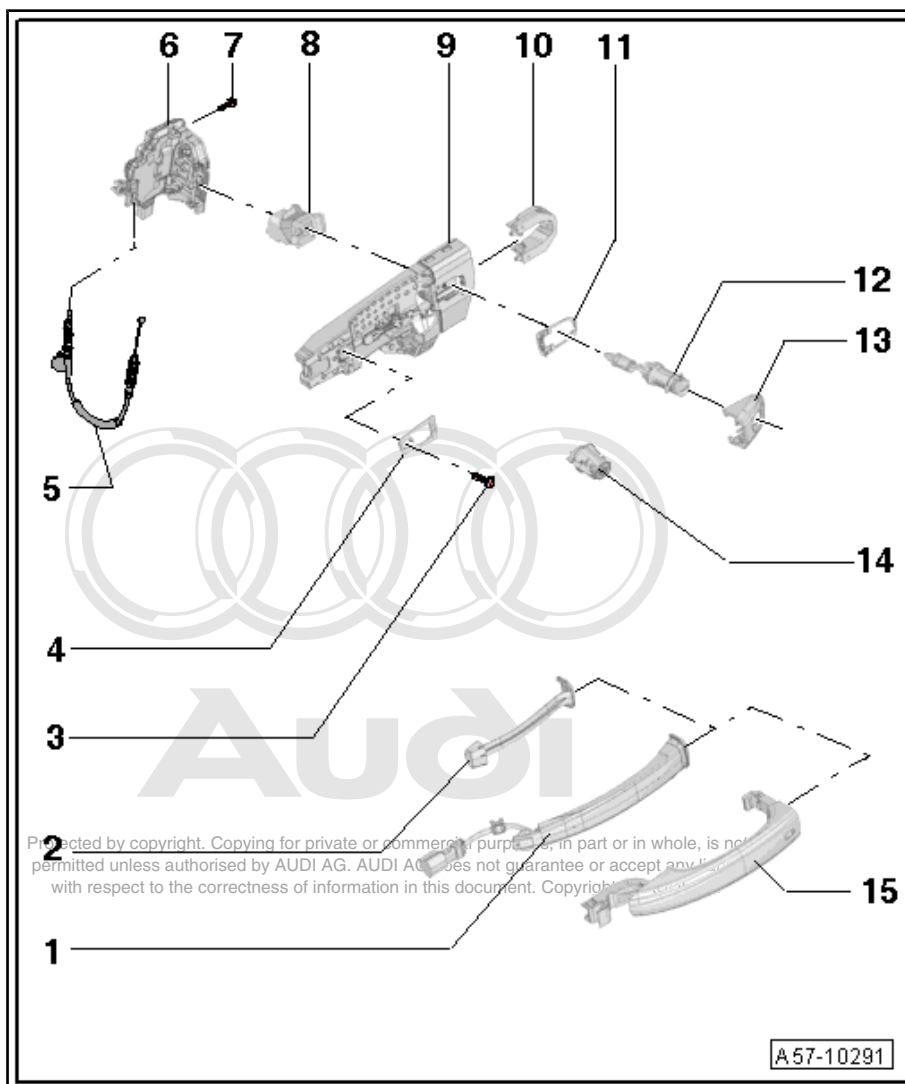
- ❑ For driver's door
- ❑ Removing and installing ⇒ page 72

13 - Cap

- ❑ Driver side: for lock cylinder
- ❑ Passenger side: closed design
- ❑ Removing and installing ⇒ page 72

14 - Housing

- ☐ Instead of lock cylinder
- ☐ For front passenger's door
- ☐ Removing and installing ⇒ "2.7 Removing and installing lock cylinder", page 72



15 - Exterior door handle

- ☐ Removing and installing ⇒ [page 73](#)

Door lock

1 - Cover for inner door panel

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

2 - Operating cable for interior door handle

- ☐ Removing and installing
⇒ [page 79](#)

3 - Grommet

- ☐ Cannot be renewed separately

4 - Bolt

- ☐ 25 Nm

5 - Striker

- ☐ Removing and installing
⇒ [page 80](#)

6 - Bolt

- ☐ 19 Nm

7 - Door lock

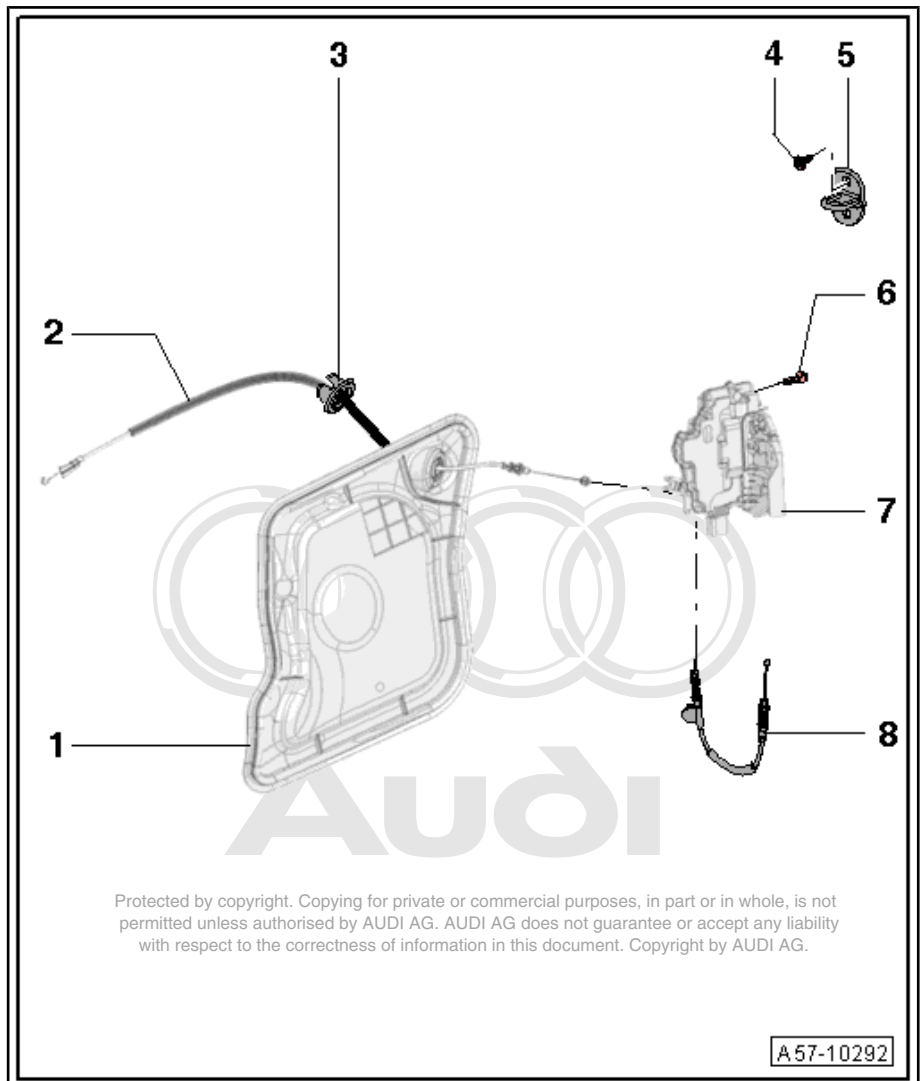


Caution

Risk of malfunctions.

To prevent the operating cable from being kinked or bent too much when it is disengaged/engaged, the door lock must be removed and installed together with the mounting bracket.

The operating cable must be engaged in/disengaged from the operating lever on the door with the components removed from the vehicle.



- ☐ Removing and installing ⇒ [page 75](#)

8 - Operating cable for door lock

2.3 Exploded view - window slot trim strips

1 - Door

2 - Outer window slot trim strip

❑ Removing:

Door trim removed ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim (front); Removing and installing door trim (front)

- Raise door window right to top.
- Remove slot trim strip.

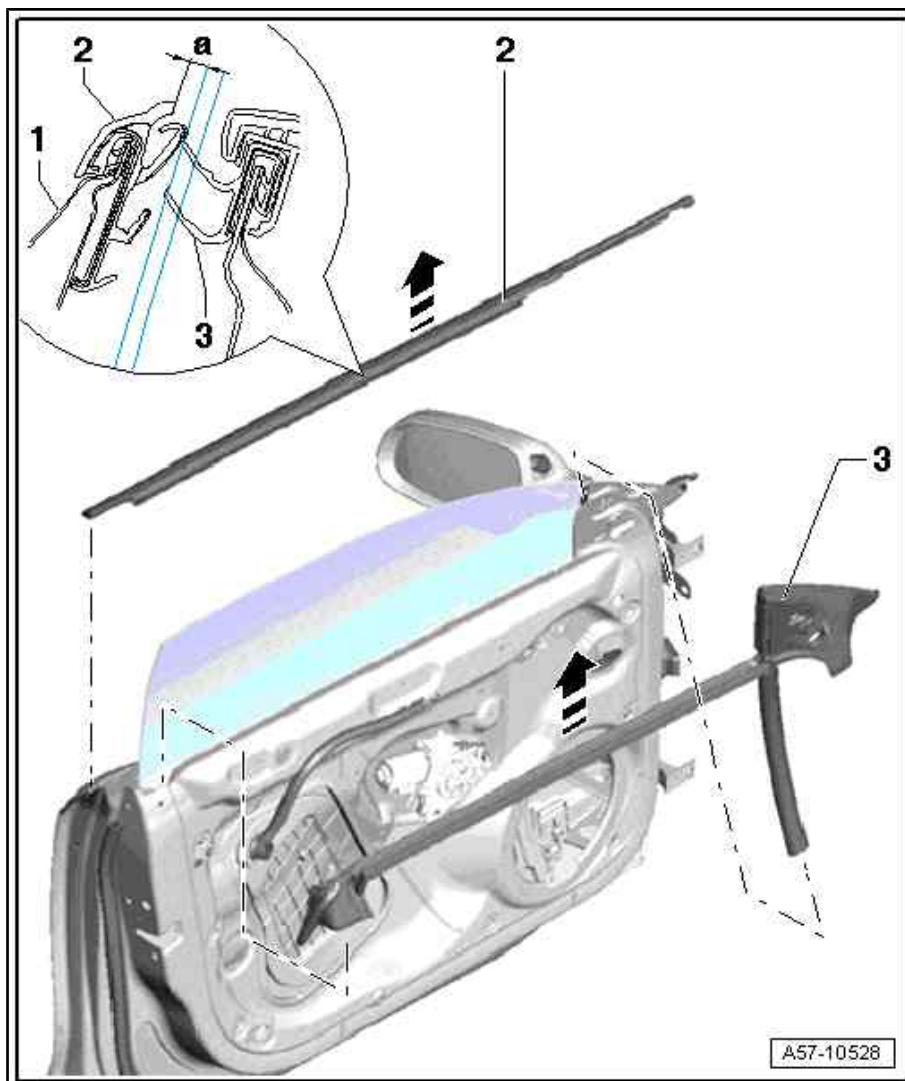
3 - Inner window slot trim strip

❑ Removing:

- ❑ Exterior mirror removed ⇒ [page 210](#)

Door trim removed ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim (front); Removing and installing door trim (front)

- First unclip slot trim strip from door in area of B-pillar (2x) and then in area of A-pillar (1x).
- Pull slot trim strip with window guide rail upwards off door.



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2.4 Removing and installing inner door cover

1 - Cover

- Remove door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim (front); Removing and installing door trim (front) .
- Pull electrical wiring -6- out of retaining clips -5-.
- When removing cover, it is important to start at the top.

2 - Grommet

- When installing, make sure component is seated correctly -arrows-.

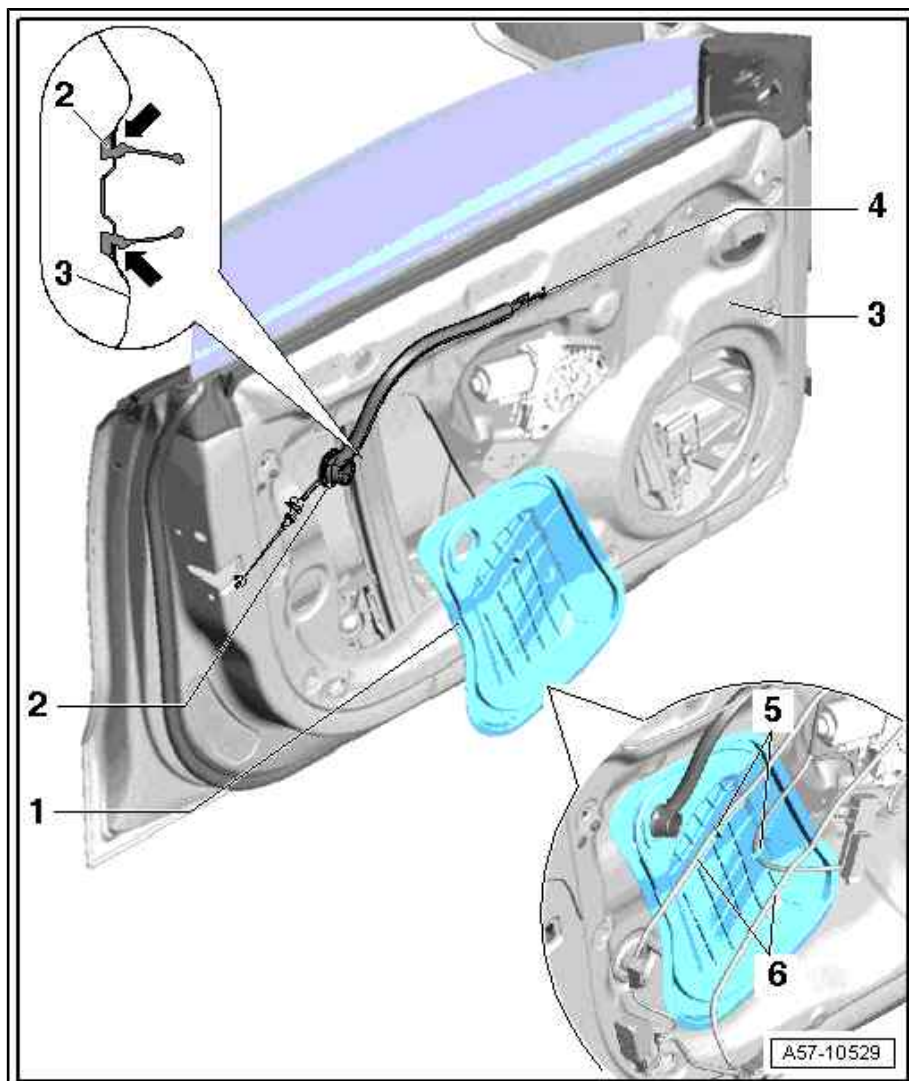
3 - Inner door panel

4 - Cable

5 - Retaining clip

6 - Electrical wire

- Unclip from retaining clips



2.5 Removing and installing window regulator motor

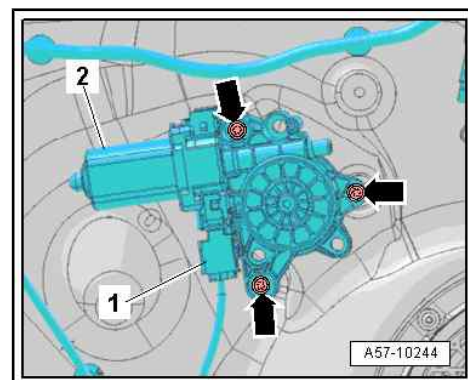
Removing



Note

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

- Remove door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim (front); Removing and installing door trim (front) .
- Unplug electrical connector -1- from door control unit.
- Unscrew bolts -arrows- and detach window regulator motor -2- from window regulator.



Installing

- Tightening torque ⇒ [page 64](#)

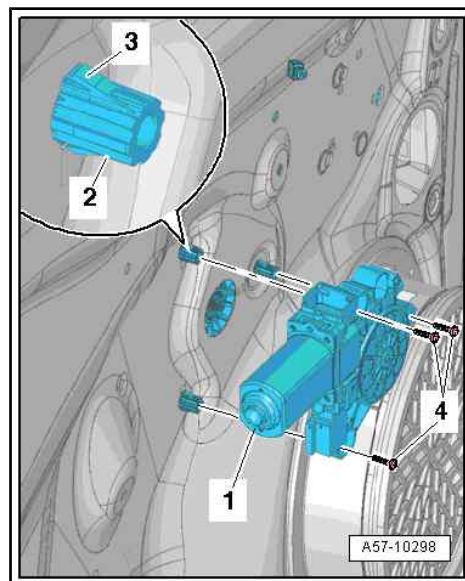
Installation is carried out in the reverse order; note the following:

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



Note

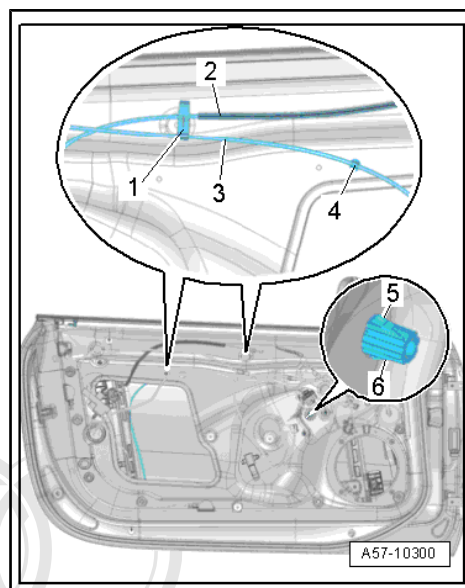
- ◆ With the window regulator switches connected, switch on the ignition and raise the door windows as far as they will go.
- ◆ Keep the window regulator switches pulled for approx. another 2 seconds to activate the basic setting and the one-touch open/close function.



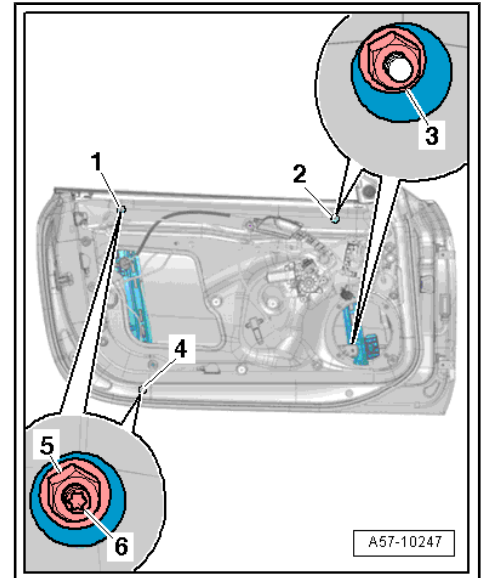
2.6 Removing and installing window regulator

Removing

- Remove window regulator motor ⇒ [page 69](#) .
- Remove door window ⇒ [page 180](#) .
- Remove bass loudspeaker ⇒ Communication; Rep. gr. 91 ; Sound system; Removing and installing front bass loudspeakers -R21- / -R23- .
- Use an 11 mm socket to release retaining clips -5- of threaded pins -6- for window regulators (slide socket over threaded pins).
- Lift cable -2- on inside out of cable guide -1-.
- Unclip cable -3- on inside out of cable guide -1- and bracket -4-.



- Take out sealing plugs -1, 2, 4-.
- Unscrew nuts -3- from cable guide for window regulator.
- Unscrew nuts -5- while at the same time counterholding threaded pin -6- for adjusting door window.
- Take window regulator out of opening in inner door panel towards rear.

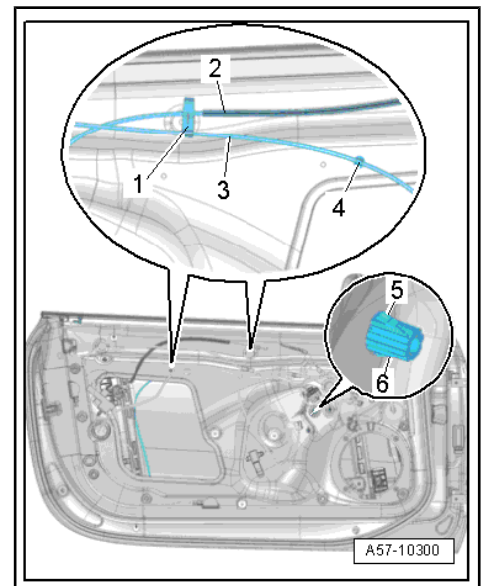


Installing

- Tightening torque ⇒ [page 64](#)

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

- Retaining clips -5- of threaded pins -6- for window regulator must be engaged in inner door panel.
- Install bass loudspeaker ⇒ Communication; Rep. gr. 91 ; Sound system; Removing and installing front bass loudspeakers -R21- / -R23- .
- Install door window ⇒ [page 180](#) .
- Install window regulator motor ⇒ [page 69](#) .
- Adjust door window: lateral adjustment ⇒ [page 180](#) .
- Height adjustment ⇒ [page 184](#)



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2.7 Removing and installing lock cylinder

Removing

- Push door seal to side and peel off protective film over hole -arrow A-.
- Unscrew clamping bolt -4- as far as possible using a screwdriver -1-.
- Push retainer -3- for lock cylinder inwards.
- Pull lock cylinder -2- out of mounting bracket -arrow B-.



Note

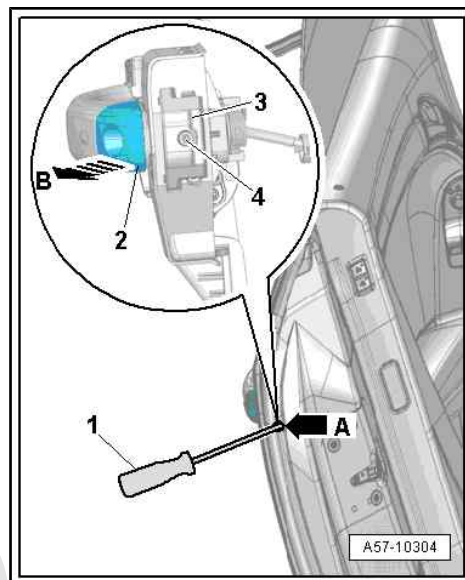
If the lock cylinder cannot be pulled out, insert the ignition key in the lock cylinder and pull out the lock cylinder with the key turned slightly.

Installing

- Tightening torque ⇒ [page 65](#)

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

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



2.8 Removing and installing cap for lock cylinder

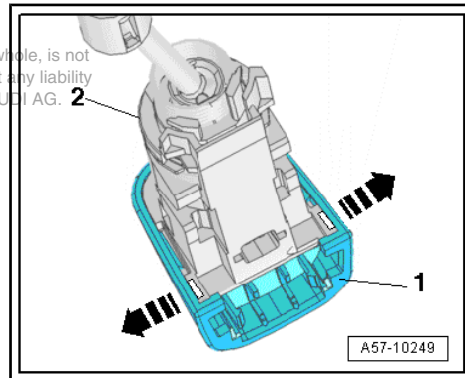
Removing

- Remove lock cylinder ⇒ [page 72](#).
- Pull retaining clips apart -arrows- and detach cap -1- from lock cylinder -2-, using an awl if necessary.

Installing

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

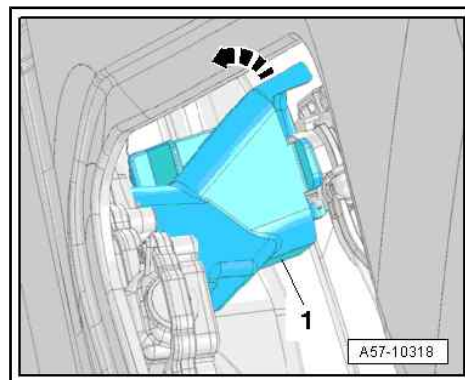
- Press on cap for lock cylinder until it engages audibly.
- Install lock cylinder ⇒ [page 72](#).



2.9 Removing and installing lock cylinder guide

Removing

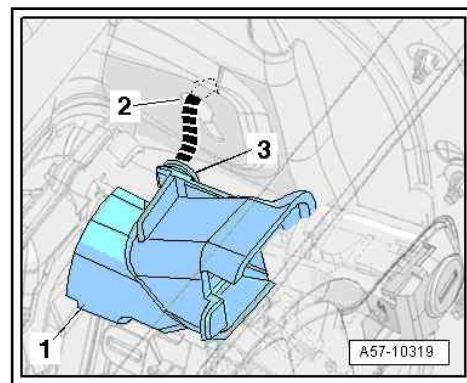
- Remove lock cylinder ⇒ [page 72](#).
- Remove door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim (front); Removing and installing door trim (front).
- Remove cover for inner door panel ⇒ [page 69](#).
- Swivel lock cylinder guide -1- upwards as far as it will go -arrow-.
- Remove lock cylinder guide.



Installing

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

- When inserting lock cylinder guide -1-, make sure that locating lug -3- engages in mounting -2- on inner door panel -arrow-.
- Install cover for inner door panel ⇒ [page 69](#) .
- Install door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim (front); Removing and installing door trim (front) .
- Install lock cylinder ⇒ [page 72](#) .



2.10 Removing and installing door handle

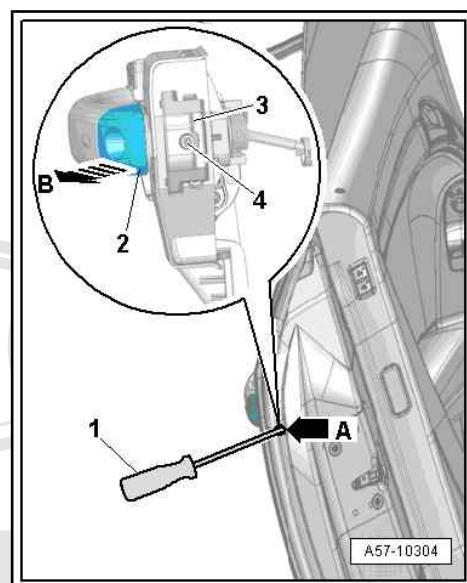
Removing

- Push door seal to side and peel off protective film over hole -arrow A-.
- Unscrew clamping bolt -4- as far as possible using a screwdriver -1-.
- Pull exterior door handle outwards and hold in “open” position.
- Press retainer -3- for lock cylinder inwards. Door handle is locked in “open” position.
- Pull lock cylinder -2- out of mounting bracket -arrow B-.

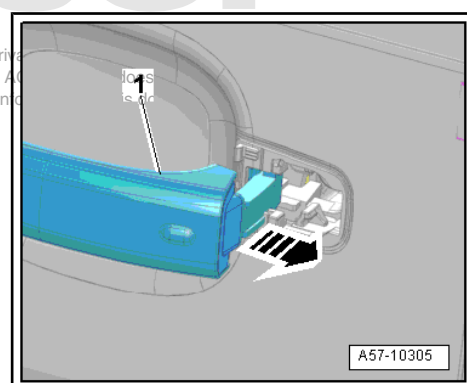


Note

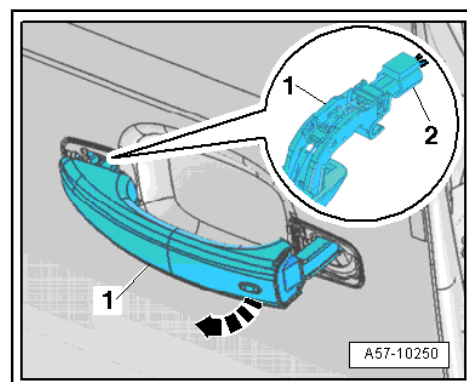
If the lock cylinder cannot be pulled out, insert the ignition key in the lock cylinder and pull out the lock cylinder with the key turned slightly.



- Pull exterior door handle -1- in direction of -arrow-; exterior door handle will be detached from operating lever in mounting bracket.



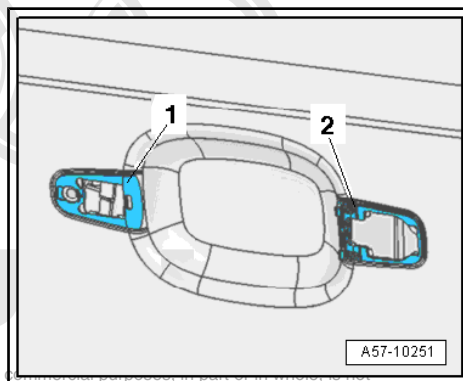
- Swivel exterior door handle -1- outwards -arrow- and take out of mounting on mounting bracket.
- On vehicles with convenience key, unplug electrical connector -2- at exterior door handle.



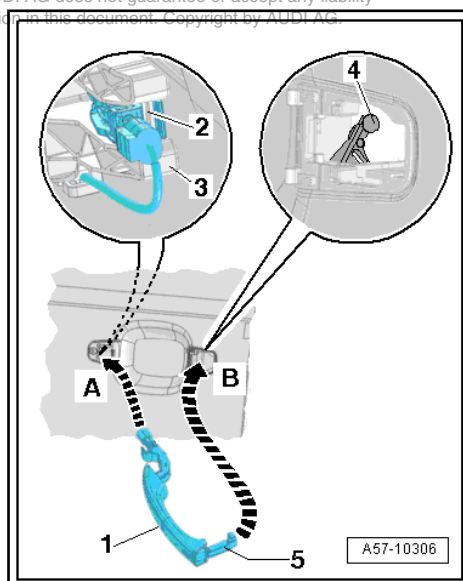
Installing

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

- Renew backing plates -1- and -2- for door handle if they are damaged or brittle.



- Insert exterior door handle -1- -arrow A-, making sure that exterior door handle engages in mounting -2- on mounting bracket -3-.
- Swivel exterior door handle -1- in direction of -arrow B- and push in »driver« -5- in front of operating lever -4- in mounting bracket.
- Press retainer for lock cylinder towards exterior door handle.
- Install lock cylinder ⇒ [page 72](#) .



2.11 Removing and installing door handle trim

On vehicles without convenience key, trim is fitted instead of the contact sensor for exterior door handle.

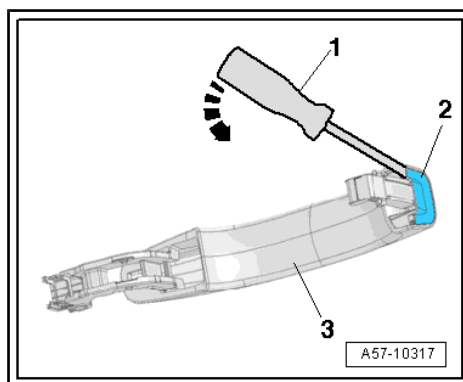
Removing

- Remove exterior door handle ⇒ [page 73](#) .
- Prise out trim -2- for exterior door handle using an awl -1- at point indicated in illustration -arrow-.
- Pull trim for exterior door handle out of exterior door handle -3-.

Installing

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

- Push in trim for exterior door handle until it engages audibly.
- Install exterior door handle ⇒ [page 73](#) .
- Install lock cylinder ⇒ [page 72](#) .



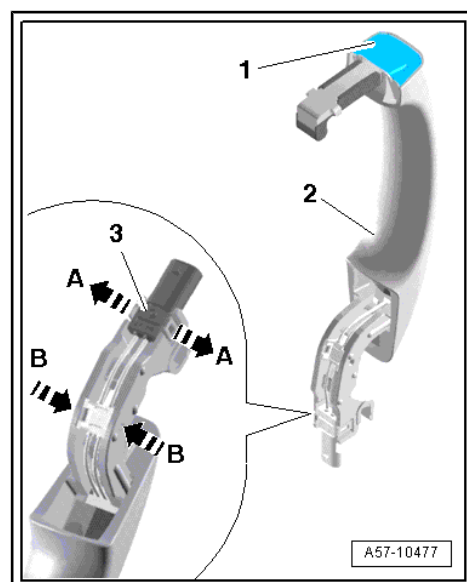
2.12 Removing and installing contact sensor for front exterior door handle -G605- / -G606-



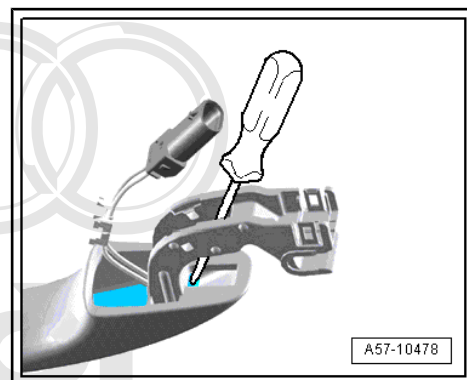
Caution

Proceed exactly as follows to avoid damaging the sensor.

- Remove door handle -2- with sensor -1- ⇒ [page 73](#) .
- Use a small screwdriver to carefully release fasteners at -arrows A and B- and press connector -3- with cable guide to side.



- Insert screwdriver in front of sensor, as shown.
- Turning screwdriver slightly, press sensor forwards out of door handle.
- Pull sensor out of door handle.



2.13 Removing and installing door lock



Caution

Risk of malfunctions.

To prevent the operating cable from being kinked or bent too much when it is disengaged/engaged, the door lock must be removed and installed together with the mounting bracket.

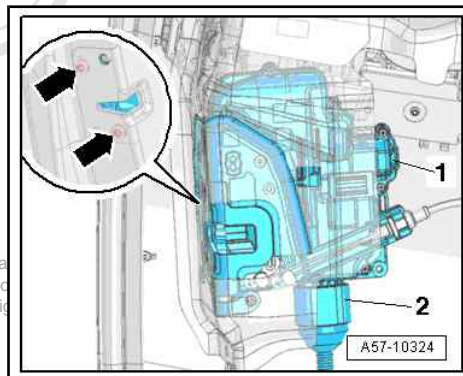
Therefore the operating cable must be engaged in/disengaged from the operating lever on the door lock with the components removed from the vehicle.

Removing

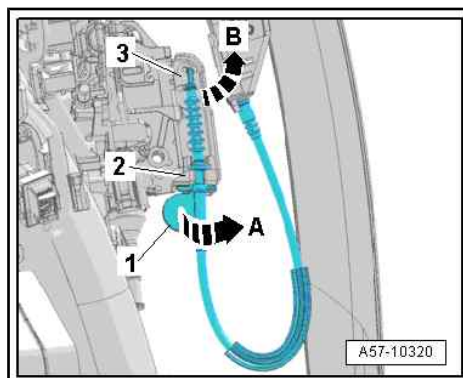
- Remove lock cylinder ⇒ [page 72](#) .

- Remove door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim (front); Removing and installing door trim (front) .
- Remove cover for inner door panel ⇒ [page 69](#) .
- Remove lock cylinder guide ⇒ [page 72](#) .
- Remove mounting bracket ⇒ [page 77](#) .
- Remove bolts -arrows- from door lock.

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- Unplug electrical connector -2- and take out door lock -1- together with mounting bracket.
- Turn operating cable on lever -1- 90° in direction of -arrow A- and take it out of cable support bracket -2-.
- Turn operating cable on operating lever -3- for door lock in direction of -arrow B-.
- The operating cable must be aligned with the opening on the operating lever.
- Disengage operating cable from operating lever.

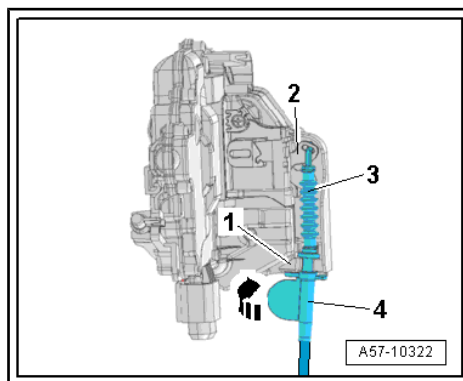


Installing

- Tightening torque ⇒ [page 67](#)

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

- Engage operating cable -3- in operating lever -2- for door lock.
- Insert operating cable into support bracket -1- and turn lever -4- 90° -arrow-.
- Lug on lever must engage audibly in cable support bracket.
- Install lock cylinder guide ⇒ [page 72](#) .
- Install cover for inner door panel ⇒ [page 69](#) .
- Install door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim (front); Removing and installing door trim (front) .
- Install lock cylinder ⇒ [page 72](#) .



2.14 Removing and installing mounting bracket



Caution

Risk of malfunctions.

To prevent the operating cable from being kinked or bent too much when it is disengaged/engaged, the door lock must be removed and installed together with the mounting bracket.

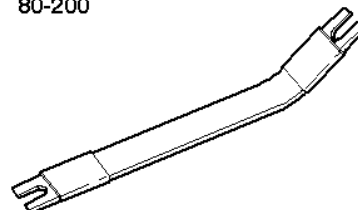
Therefore the operating cable must be engaged in/disengaged from the operating lever on the door lock with the components removed from the vehicle.

Special tools and workshop equipment required

- ◆ Removal lever - 80 - 200-

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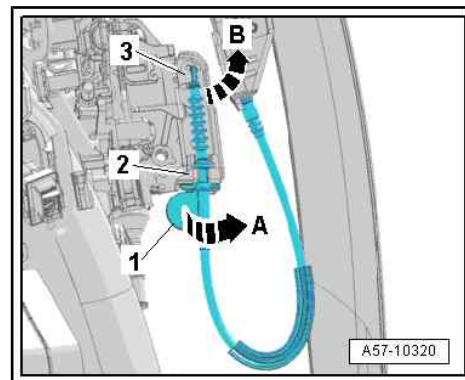
80-200



W00-0353

Removing

- Remove door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim (front); Removing and installing door trim (front) .
- Remove cover for inner door panel ⇒ [page 69](#) .
- Turn operating cable on lever -1- 90° in direction of -arrow A- and take it out of cable support bracket -2-.
- Turn operating cable on operating lever -3- for door lock in direction of -arrow B-.
- The operating cable must be aligned with the opening on the operating lever.
- Disengage operating cable from operating lever.
- Remove exterior door handle ⇒ [page 73](#) .
- Remove lock cylinder guide ⇒ [page 72](#) .
- Where fitted, disengage electrical wiring from mounting bracket -arrow-.
- Move clear binding clip -1- of electrical wire with removal lever - 80 - 200- .



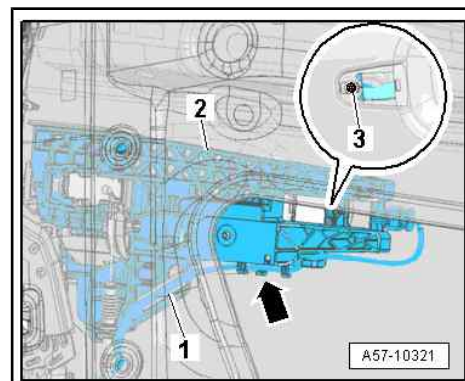
A57-10320



Note

Use soap solution to aid removal if necessary.

- Unscrew bolt -3- and detach mounting bracket -2-.

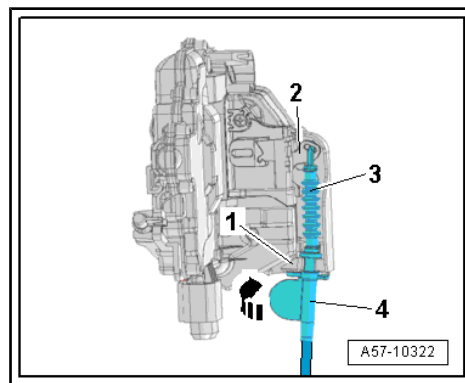


A57-10321

Installing

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

- Engage operating cable -3- in operating lever -2- for door lock.
- Insert operating cable into support bracket -1- and turn lever -4- 90° -arrow-.
- Lug on lever must engage audibly in cable support bracket.
- Install lock cylinder guide ⇒ [page 72](#) .
- Install cover for inner door panel ⇒ [page 69](#) .
- Install door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim (front); Removing and installing door trim (front) .
- Install exterior door handle ⇒ [page 73](#) .



2.15 Removing and installing operating cable for door lock



Caution

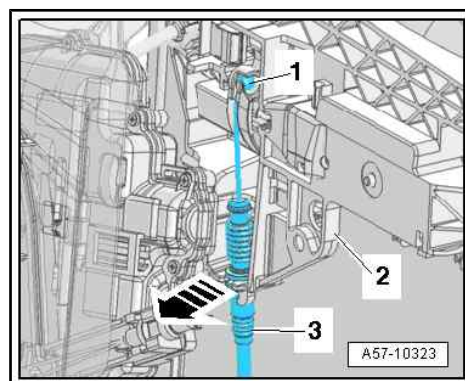
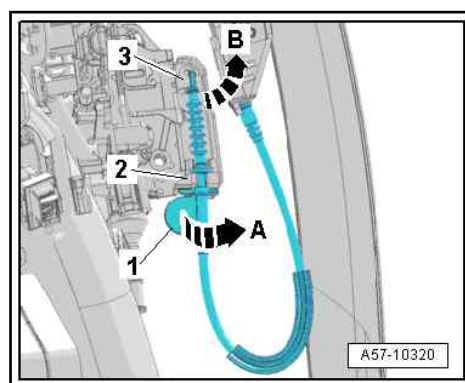
Risk of malfunctions.

To prevent the operating cable from being kinked or bent too much when it is disengaged/engaged, the door lock must be removed and installed together with the mounting bracket.

Therefore the operating cable must be engaged in/disengaged from the operating lever on the door lock with the components removed from the vehicle.

Removing

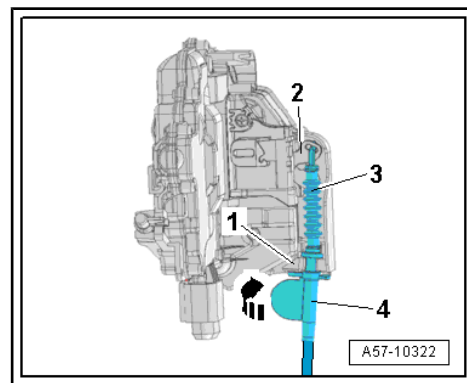
- Remove door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim (front); Removing and installing door trim (front).
- Remove cover for inner door panel ⇒ [page 69](#) .
- Turn operating cable on lever -1- 90° in direction of -arrow A- and take it out of cable support bracket -2-.
- Turn operating cable on operating lever -3- for door lock in direction of -arrow B-.
- The operating cable must be aligned with the opening on the operating lever.
- Disengage operating cable -1- from operating lever by pressing cable support bracket -3- out of mounting on mounting bracket -2- -arrow-.
- Take out operating shaft.



Installing

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

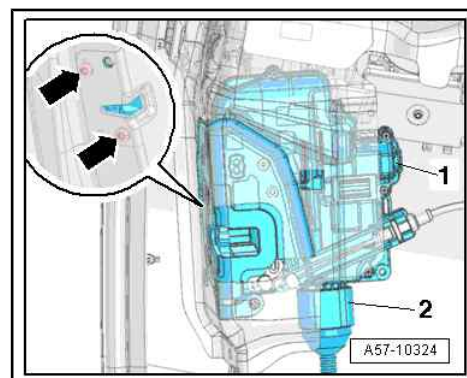
- Engage operating cable -3- in operating lever -2- for door lock.
- Insert operating cable into support bracket -1- and turn lever -4- 90° -arrow-.
- Lug on lever must engage audibly in cable support bracket.
- Install cover for inner door panel ⇒ [page 69](#) .
- Install door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim (front); Removing and installing door trim (front) .



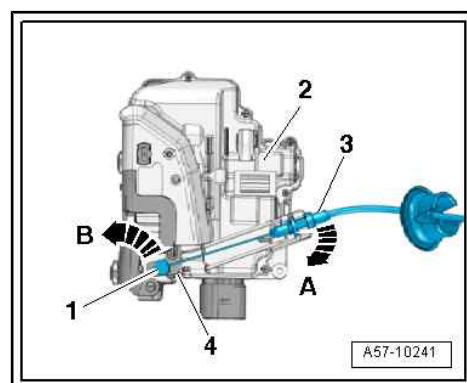
2.16 Removing and installing operating cable for interior door handle

Removing

- Remove lock cylinder ⇒ [page 72](#) .
- Remove door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim (front); Removing and installing door trim (front) .
- Remove cover for inner door panel ⇒ [page 69](#) .
- Remove lock cylinder guide ⇒ [page 72](#) .
- Remove bolts -arrows-.
- Press door lock -1- to the side. If fitted, unplug electrical connector -2-.



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



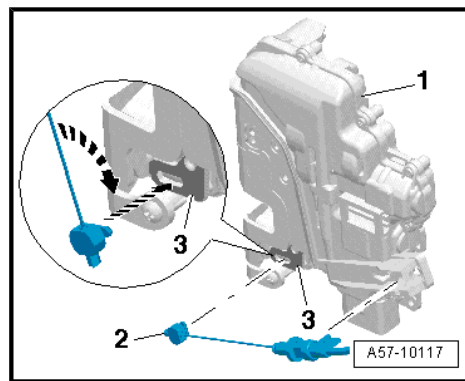
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Installing

- Tightening torque ⇒ [page 67](#)

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

- Insert nipple -2- in door opener release lever -3- -bottom arrow-.
- Turn nipple 90° -top arrow- and press operating cable into cable support bracket on door lock -1- until it engages audibly.
- Install lock cylinder guide ⇒ [page 72](#) .
- Install cover for inner door panel ⇒ [page 69](#) .
- Install door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim (front); Removing and installing door trim (front) .
- Install lock cylinder ⇒ [page 72](#) .



2.17 Removing and installing striker

Removing

- Unscrew bolts -2- and detach striker -1-.

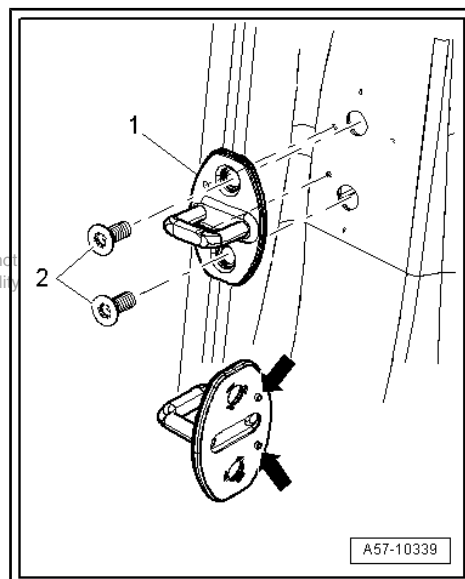
Installing

- Tightening torque ⇒ [page 67](#)

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

- Adjust striker ⇒ [“1.3 Adjusting door”, page 54](#)

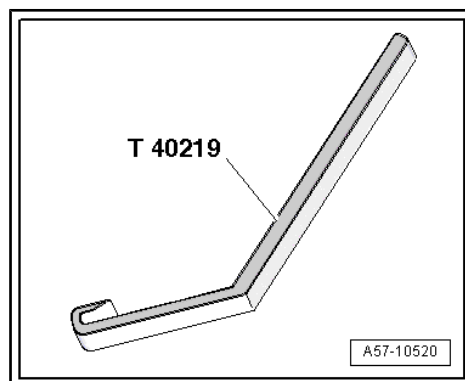
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2.18 Removing and installing outer window slot trim strip

Special tools and workshop equipment required

- ◆ Removal tool - T40219- (3x)



Removing

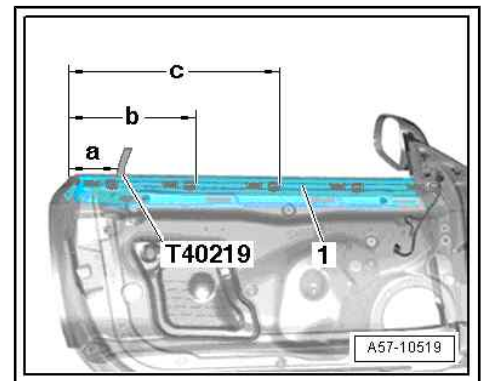
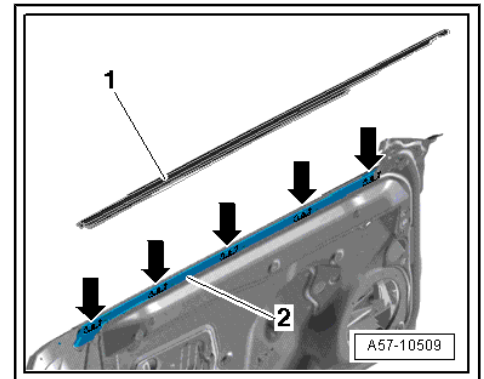
- Move door window to “open” position.

- Door trim removed ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim (front); Removing and installing door trim (front)
- Remove exterior mirror ⇒ [page 210](#) .
- Before window slot trim strip -1- can be detached, it must first be released from retaining hooks -arrows- on door -2-.

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- Insert first removal tool - T40219- at mirror triangle between outer window slot trim strip and door window.
- Move first removal tool - T40219- towards rear and side until distance corresponds to »dimension a«.
- Pull first removal tool - T40219- upwards and simultaneously insert it in window slot trim strip.





Note

Mark on removal tool - T40219- must be visible.

- Repeat the procedure for the second and third removal tool (insert until distance corresponds to »dimension b«/»dimension c«).

1) The dimensions are measured at the window slot trim strip starting at the B-pillar.

- Dimension a = approx. 115 mm
- Dimension b = approx. 330 mm
- Dimension b = approx. 550 mm
- Press removal tool - T40219- slightly outwards and release window slot trim strip.
- Starting at B-pillar, pull window slot trim strip upwards out of fasteners.
- Repeat the procedure for the second and third removal tool - T40219- .
- Pull slot trim strip out completely.

Installing

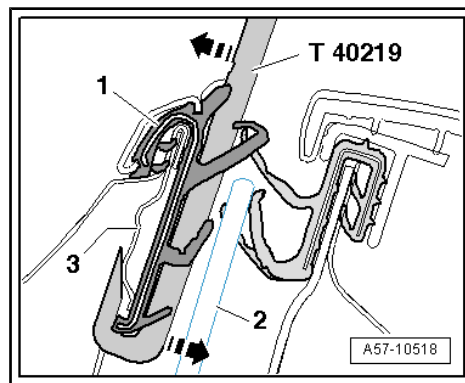
Installation is carried out in the reverse order; note the following:



WARNING

The retaining hooks on the outer door panel must not be bent open; if necessary, bend them back into their original shape.

- Outer window slot trim strip must be pressed into place fully by hand, starting on door at B-pillar.
- Install exterior mirror ⇒ [page 210](#) .



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3 Central locking system

⇒ [“3.1 Overview of fitting locations - central locking system”, page 83](#)

⇒ [“3.2 Removing and installing driver door control unit J386 and front passenger door control unit J387”, page 84](#)

⇒ [“3.3 Removing and installing rear left door control unit J388 and rear right door control unit J389”, page 85](#)

⇒ [“3.4 Removing and installing convenience system central control unit J393”, page 85](#)

⇒ [“3.5 Removing and installing interface control unit for vehicle location system J843”, page 86](#)

⇒ [“3.6 Removing and installing tank filler flap locking motor V155”, page 86](#)

3.1 Overview of fitting locations - central locking system



Note

- ◆ *The central locking system is an electrical system.*
- ◆ *The actuators in the doors are integrated in the lock and have two motors.*
- ◆ *The actuators cannot be renewed separately.*
- ◆ *The first motor locks the door, whereas the second motor locks the interior door handle (SAFE 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 rear right side panel.*

1 - Front passenger door control unit - J387-

- ❑ Removing and installing
⇒ [page 84](#)

2 - Anti-theft alarm sensor - G578-

3 - Rear right door control unit - J389-

- ❑ Removing and installing
⇒ [page 85](#)

4 - Tank filler flap locking motor - V155-

5 - Convenience system central control unit - J393-

- ❑ Removing and installing
⇒ [page 85](#)

6 - Interface control unit for vehicle location system - J843-

- ❑ Removing and installing
⇒ [page 86](#)

7 - Rear lid release motor - V139-

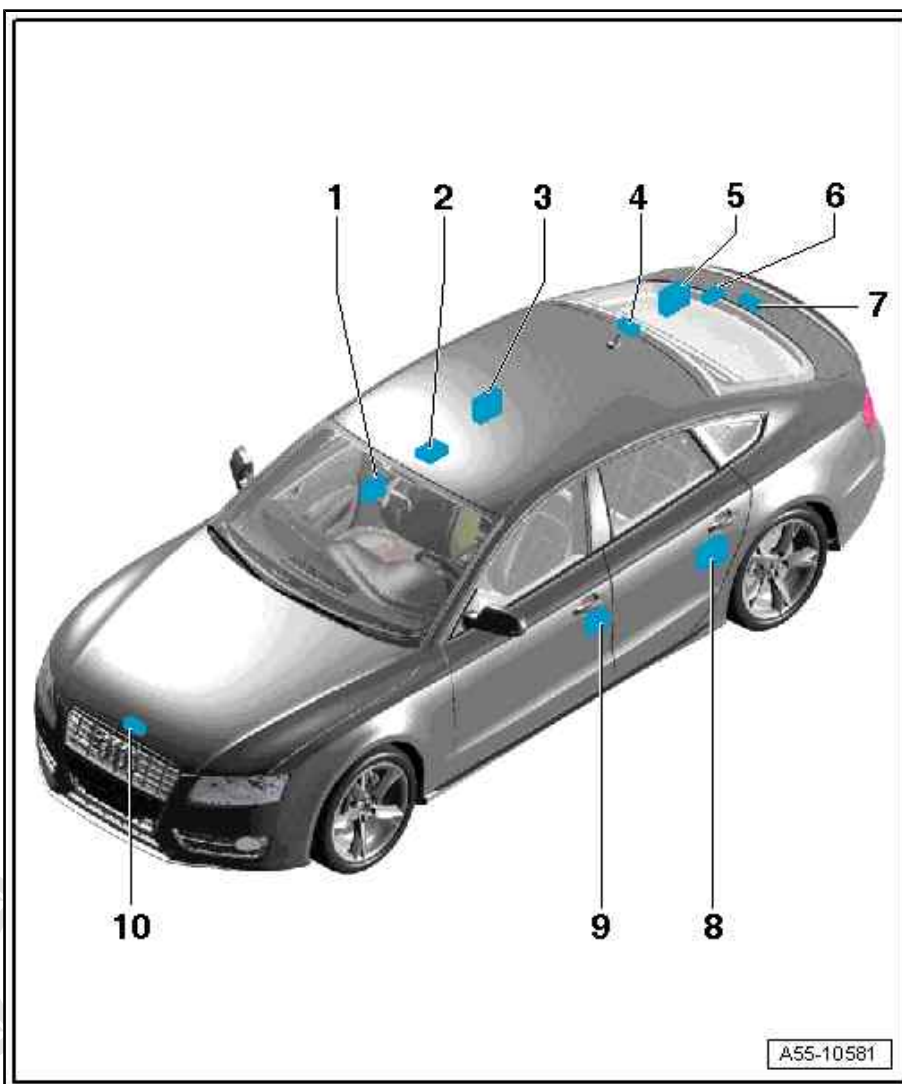
8 - Rear left door control unit - J388-

- ❑ Removing and installing
⇒ [page 85](#)

9 - Driver door control unit - J386-

- ❑ Removing and installing
⇒ [page 84](#)

10 - Bonnet contact switch - F266-

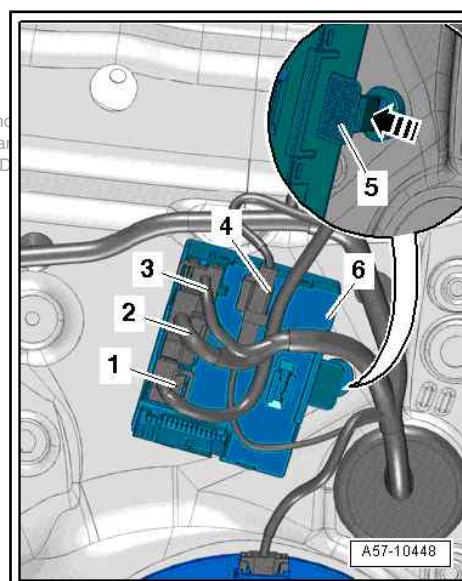


3.2 Removing and installing driver door control unit - J386- and front passenger door control unit - J387-

- Remove door trim -> General body repairs, interior, Rep. gr. 70 ; Door trim (front); Removing and installing door trim (front) .
- Unplug electrical connectors -1- and -2-; to do so, pull locking element and press release mechanism downwards.
- Unplug electrical connector -3-.
- Move clear electrical connector -4- at door control unit.
- Press retaining catch -5- in direction of -arrow- and disengage door control unit -6- from inner door panel.

Installing

- Install in reverse order of removal; make sure retainer engages in inner door panel.



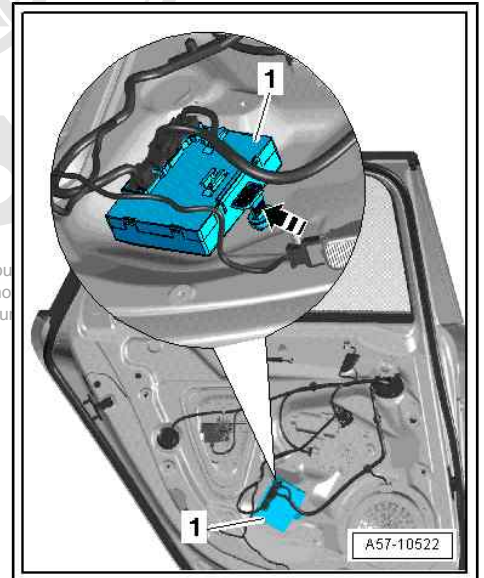
3.3 Removing and installing rear left door control unit - J388- and rear right door control unit - J389-

- Unplug electrical connectors; to do so, pull locking element and press release mechanism downwards.
- Press retainer in direction of -arrow- and disengage door control unit -1- from inner door panel.

Installing

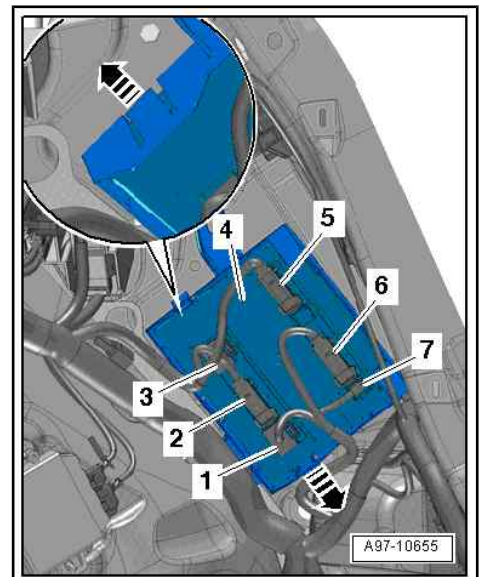
- Install in reverse order of removal; make sure retainer engages in inner door panel.

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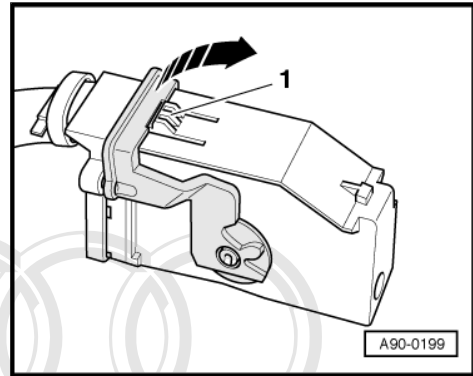


3.4 Removing and installing convenience system central control unit - J393-

- If renewing the control unit, select the function "Replace control unit" for the corresponding control unit → Vehicle diagnostic tester.
- Open luggage compartment side trim (right-side).
- Release retaining clips -arrows- and pull convenience system central control unit - J393- -item 4- out of retaining frame.
- Carefully unplug electrical connectors -1- and -3- and aerial connector -7-.
- Unplug electrical connectors -2, 5, 6-.

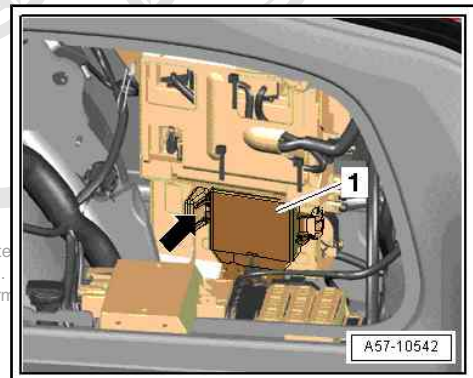


- To unplug electrical connector, press catch -1-, turn retainer in direction of -arrow- and unplug connector.
- Detach convenience system central control unit - J393- .



3.5 Removing and installing interface control unit for vehicle location system - J843-

- Open cover for luggage compartment trim (right-side).
- Unplug electrical connector to control unit -1-.
- Release locking element -arrow- on bracket and take out control unit.



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

1 - Cable for manual release

2 - Tank filler flap locking motor - V 155-

- ☐ Removing:
 - Fuel tank flap removed
⇒ [page 46](#)
 - Detach cable from convenience system central control unit - J393- in luggage compartment and pull through towards the front.
 - Detach tank filler flap locking motor - V 155- from body flange towards the front and unplug electrical connector.
- ☐ Installing:
 - Push tank filler flap locking motor - V 155- onto flange and at the same time push manual release through into luggage compartment.

3 - Tank flap

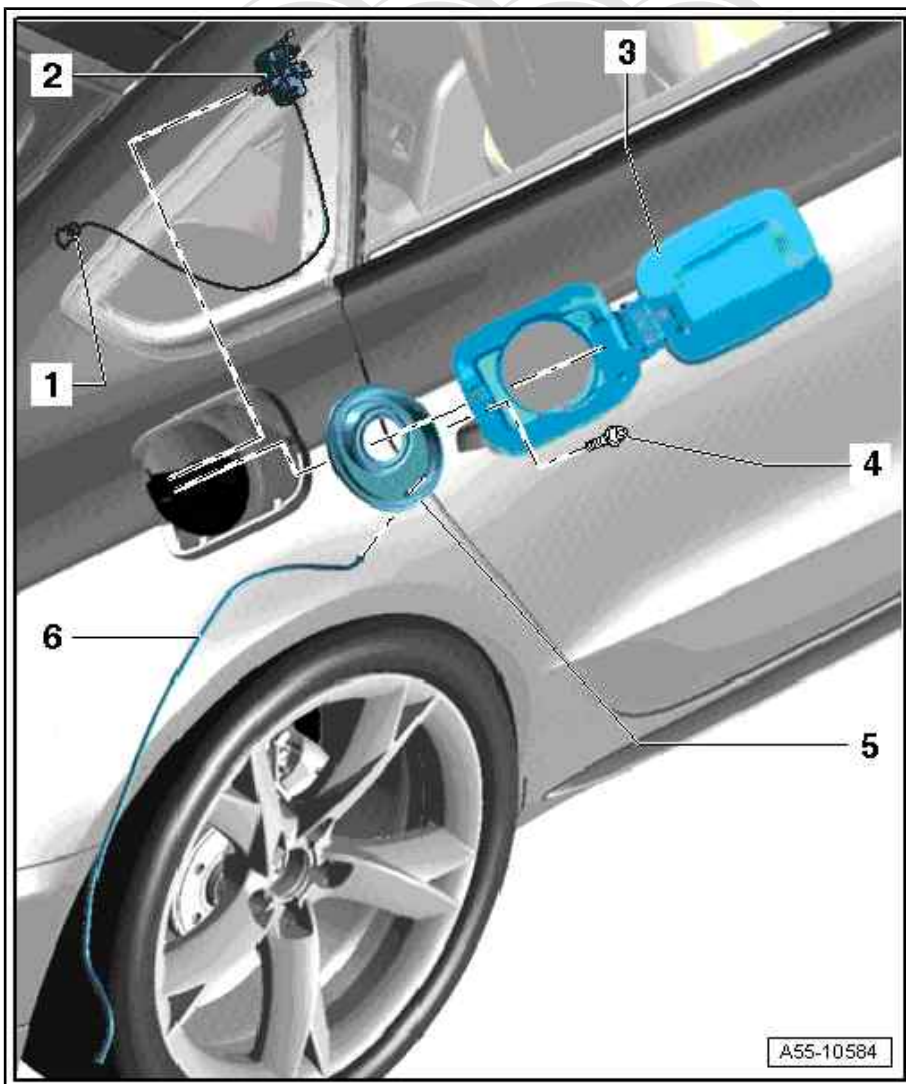
- ☐ Removing:
 - Open flap and unscrew bolt
 - Pull flap out of side panel slightly on side of bolted joint.
 - Pull flap fully out of side panel at an angle and towards rear.
- ☐ Installing:
 - Guide cable through opening in tank flap unit.
 - Insert tank flap at an angle until retaining tabs engage at flange in side panel.
 - Bolt together tank flap and tank filler flap locking motor with bolt -4-.

4 - Bolt

- ☐ 1.7 Nm

5 - Tank flap unit

6 - Drain hose



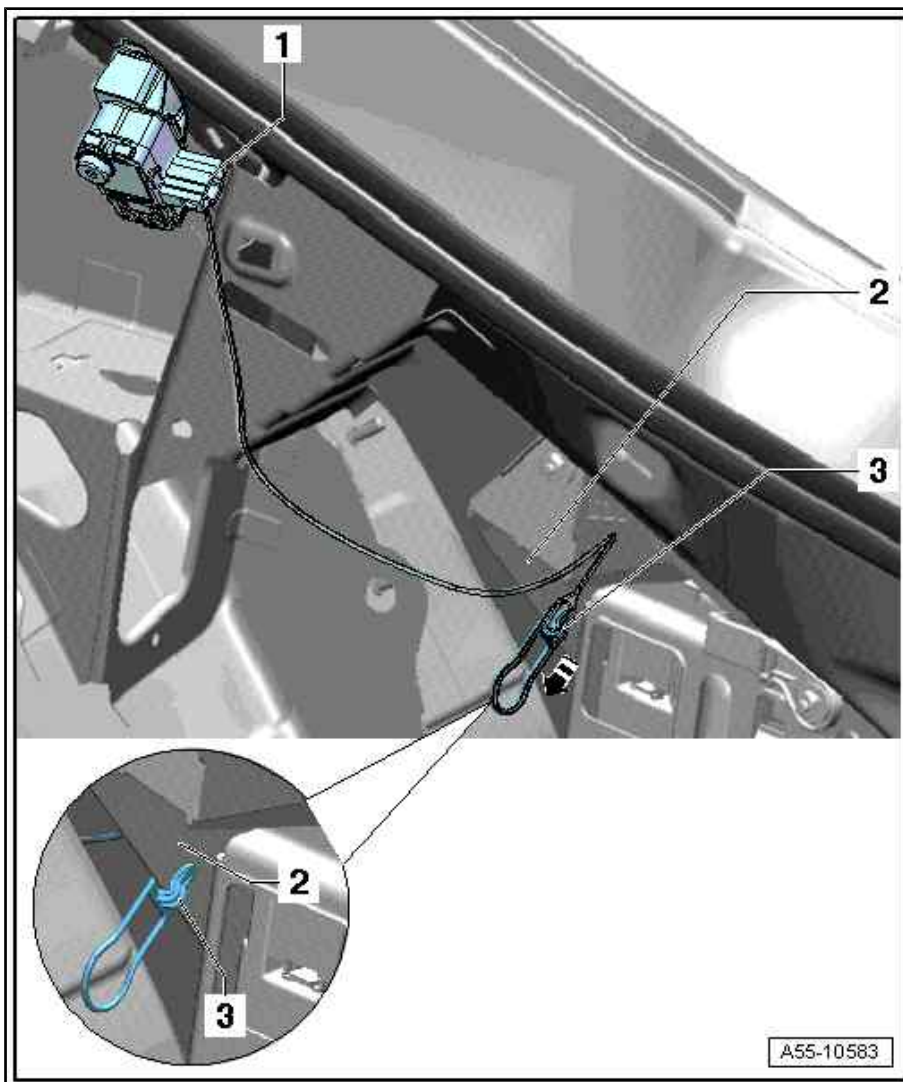
Manual release for tank flap

1 - Tank filler flap locking motor - V 155-

2 - Cable for manual release

- ❑ Insert tank filler flap locking motor - V 155- with cable through tank flap opening, as shown.
- ❑ Pull cable through towards rear into interior and fit with lug on flange on convenience system central control unit - J393- .

3 - Side panel



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58 – Rear doors, door components

1 Door

⇒ ["1.1 Exploded view - door", page 89](#)

⇒ ["1.2 Exploded view - door arrester", page 90](#)

⇒ ["1.3 Removing and installing door", page 91](#)

⇒ ["1.4 Adjusting door", page 91](#)

⇒ ["1.5 Adjusting striker", page 93](#)

⇒ ["1.6 Removing and installing door arrester", page 94](#)

⇒ ["1.7 Removing and installing inner door seal", page 94](#)

⇒ ["1.8 Removing and installing outer door seal", page 96](#)

1.1 Exploded view - door

1 - Door

2 - Bolt

□ 8 Nm

3 - Door arrester

□ Removing and installing

4 - Cap

□ Fit onto stud

5 - Stud

□ 30 Nm

6 - Door hinge (top)

7 - Bolt

□ 32 Nm

8 - Bolt



Note

◆ The bolt is a fitted bolt; therefore it is usually not necessary to adjust the door via this bolt.

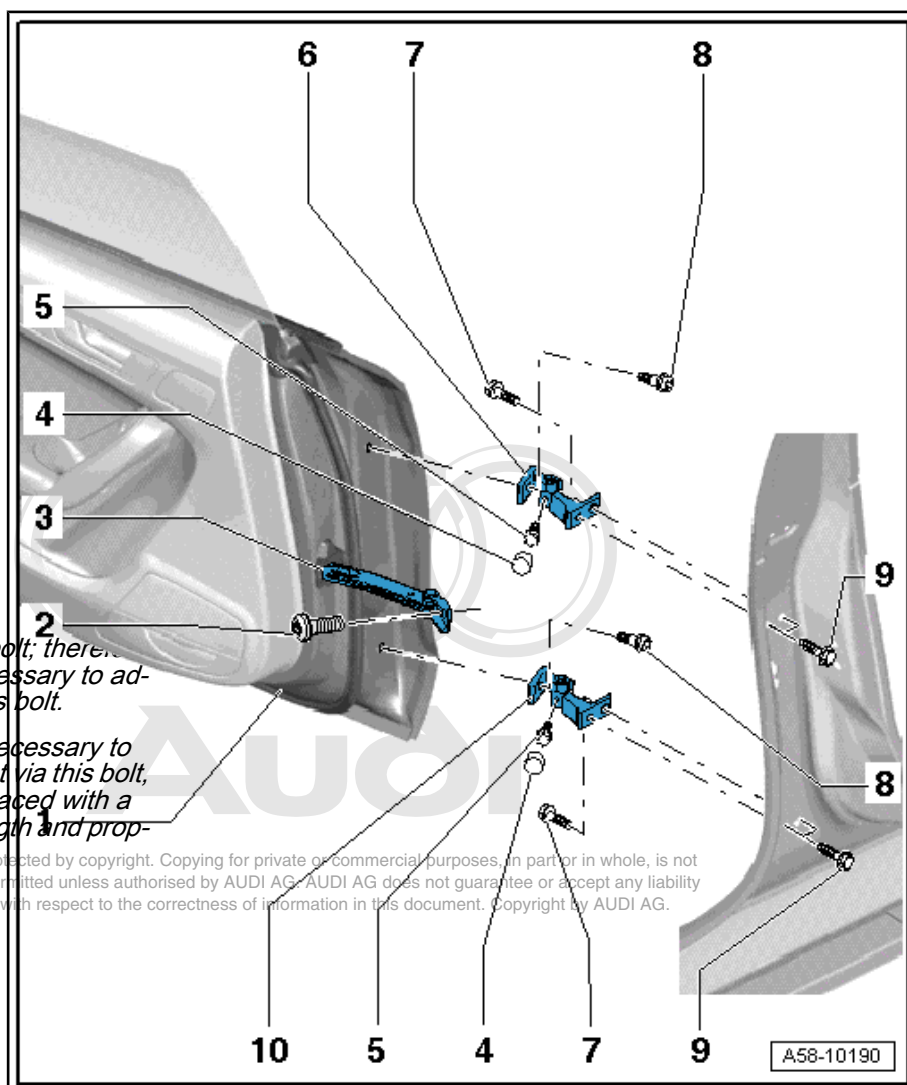
◆ If it does become necessary to make an adjustment via this bolt, the bolt can be replaced with a bolt of the same length and property class.

□ 45 Nm

9 - Bolt

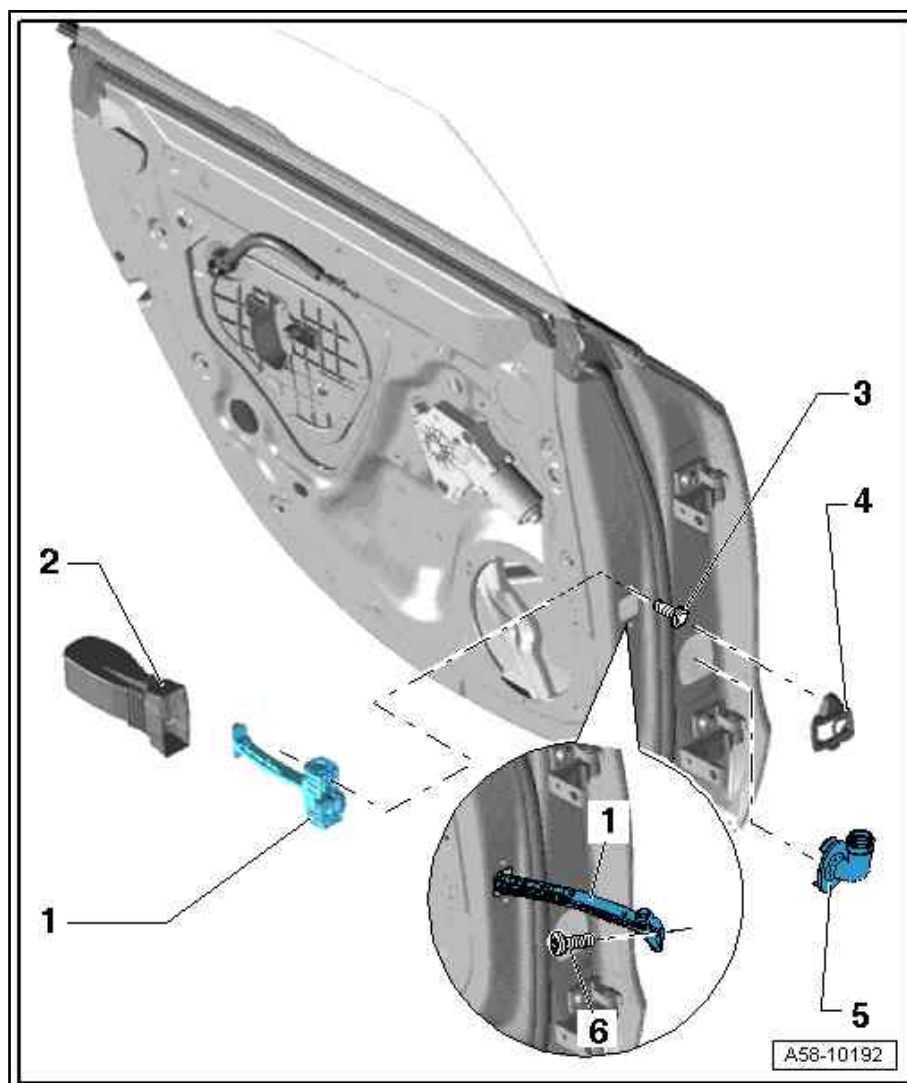
□ 32 Nm

10 - Door hinge (bottom)



1.2 Exploded view - door arrester

- 1 - Door arrester
- 2 - Rubber sleeve
- 3 - Bolt
 - 8 Nm
- 4 - Seal
- 5 - Grommet
- 6 - Bolt
 - 8 Nm



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1.3 Removing and installing door

Removing

- Unplug electrical connector at A-pillar ⇒ Electrical system; Rep. gr. 97 ; Connectors .
- Unscrew bolt -2- for door arrester.
- Detach caps -1- and -3- from studs.
- Unscrew studs -4- from door hinge (top and bottom).



Caution

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

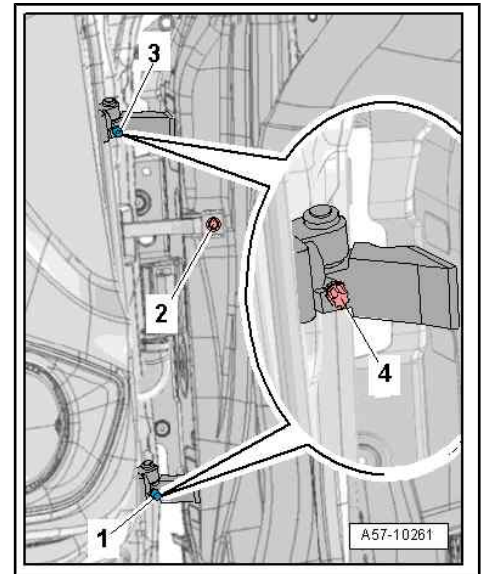
- Carefully lift door off hinges.

Installing



Note

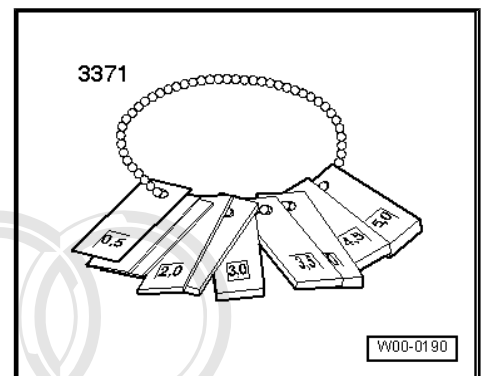
No adjustment has to be performed after the front door has been installed.



1.4 Adjusting door

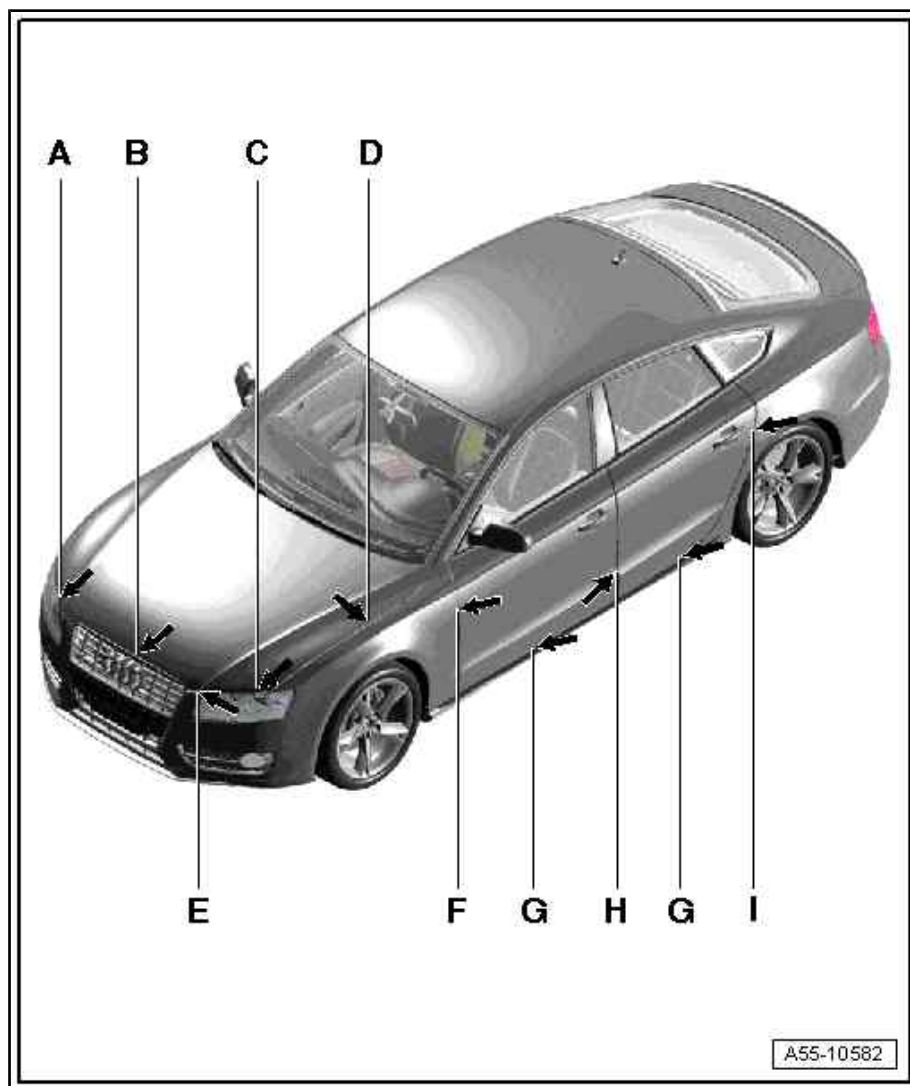
Special tools and workshop equipment required

- ◆ Setting gauge - 3371-



Gap widths

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Note

- ◆ All dimensions are given in »mm«.
- ◆ All tolerance ranges for the dimensions are ± 0.5 mm.
- ◆ The sides of the gap must be parallel (variation not more than 0.5 mm).
- Remove B-pillar trim $\Rightarrow$ General body repairs, interior; Rep. gr. 70 ; Passenger compartment trim panels; Removing and installing B-pillar trim .
- Remove connector point at B-pillar $\Rightarrow$ Electrical system; Rep. gr. 97 ; Connectors .

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Longitudinal adjustment

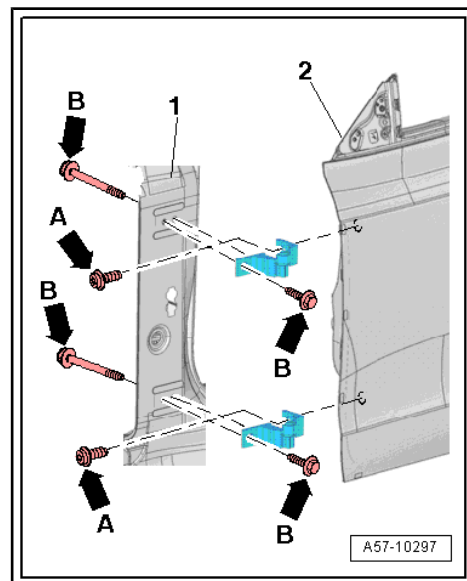
- Unscrew bolts -arrows B- at top and bottom of hinge and on A-pillar -item 1-.
- Adjust door -2- lengthwise.
- Tighten bolts -arrows B-.
- Tightening torque ⇒ [Item 7 \(page 89\)](#)

Height adjustment



Note

- ◆ The hinge bolts ⇒ [Item 8 \(page 89\)](#) on the door are fitted bolts; therefore it is usually not necessary to adjust the door via these bolts.
- ◆ If it does become necessary to make an adjustment via these bolts, the bolts can be replaced with bolts of the same length and property class.

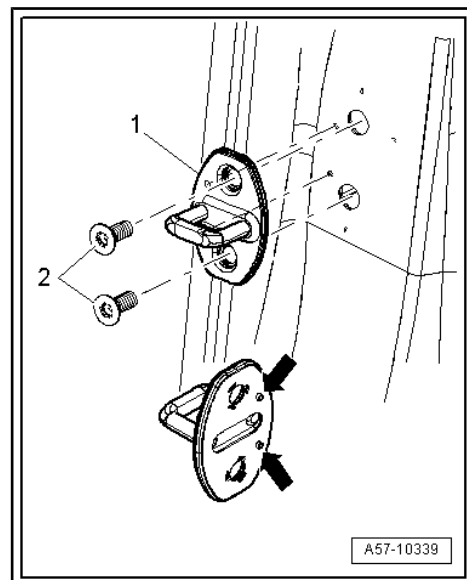


1.5 Adjusting striker



Note

- ◆ The striker is only to be used for adjustment towards the centre of the vehicle.
- ◆ Do not adjust the height of the door via the striker; otherwise the door lock will be damaged.
- Loosen bolts -2-.
- Move striker -1- until door is flush with body contour.
- If adjustment is correct, striker should engage centrally in door lock.
- Tighten bolts -2-.

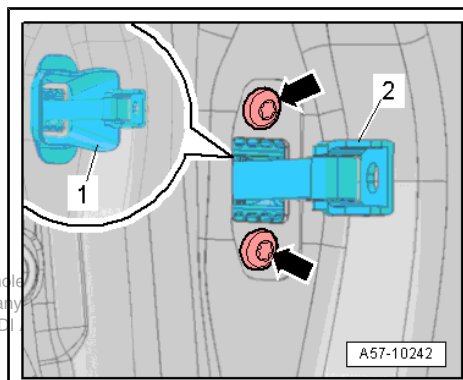
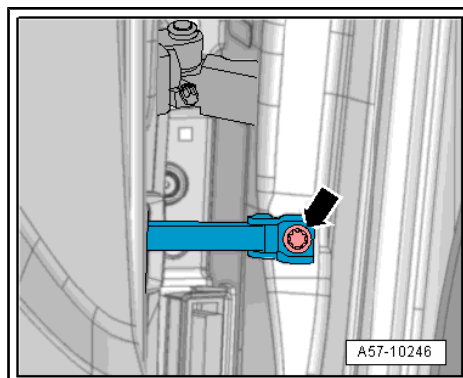


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1.6 Removing and installing door arrester

Removing

- Move door window to “closed” position.
- Remove door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim (rear); Removing and installing door trim (rear) .
- Remove loudspeaker (bottom) ⇒ Communication; Rep. gr. 91 ; Sound system; Removing and installing rear mid-range and bass loudspeakers .
- Unscrew bolt -arrow- for door arrester.
- Detach sealing piece -1- for door arrester from door opening.
- Unscrew bolts -arrows- and take out door arrester -2- inwards.

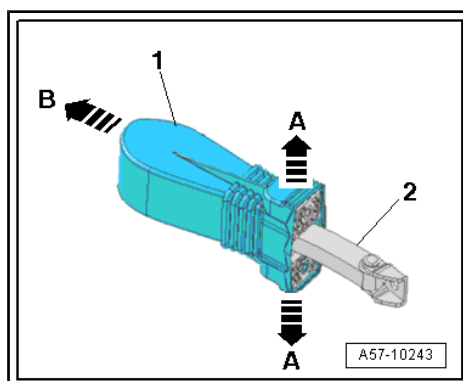


- Pull rubber sleeve -1- on door arrester to the side slightly -arrows A-.
- Detach rubber sleeve from door arrester -2- -arrow B-.

Installing

- Tightening torque ⇒ [Item 3 \(page 90\)](#)

Install in reverse sequence.

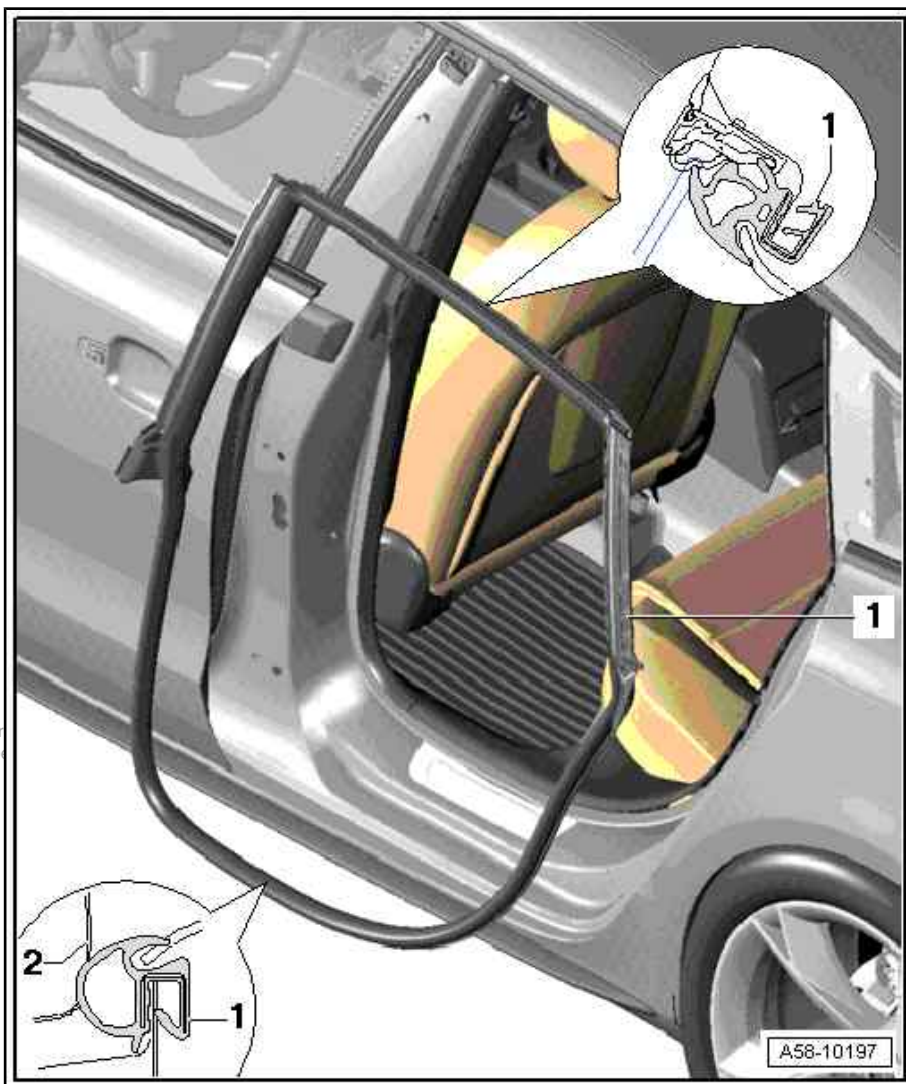


1.7 Removing and installing inner door seal

1 - Inner door seal

- ☐ Fitted on body flange all around
- ☐ To remove, detach from body flange.
- ☐ When installing, align seal at B-pillar trim (top).
- ☐ Starting from B-pillar, press seal onto body flange by hand.

2 - Door



Renewing retainer for inner door seal

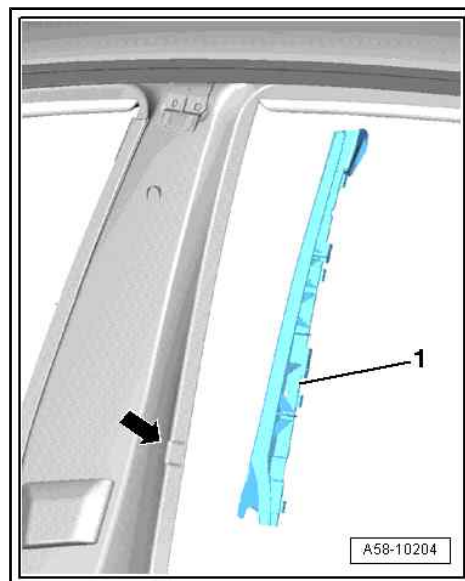


Caution

- ◆ *The bonding surfaces on the body must be free of dust and grease.*
- ◆ *Clean bonding surfaces with cleaning solution - D 009 401 04-.*
- ◆ *Heat bonding surfaces with a hot air blower to approx. 40°C.*

- Remove B-pillar trim (top) ⇒ General body repairs, interior; Rep. gr. 70 ; Passenger compartment trim panels; Removing and installing B-pillar trim .
- Detach inner door seal in area of retainer.

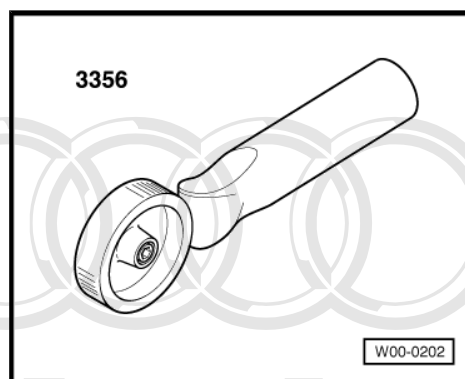
- To remove, detach retainer -1- from body flange towards rear.
- Before installing, remove any adhesive residue and clean bonding surface with cleaning solution - D 009 40104- .
- Apply primer - D 355 205 A2- to bonding surface using applicator - D 009 500 25- and allow to flash off.
- Align retainer according to embossing -arrow- and press onto body flange.
- Press down firmly on bonded area again.



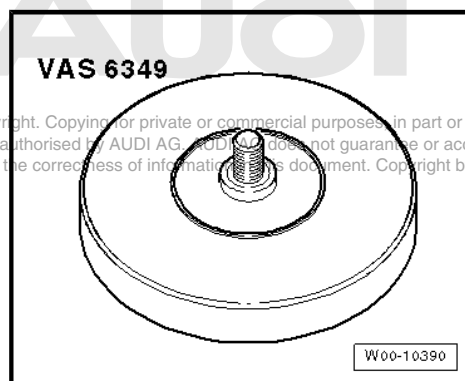
1.8 Removing and installing outer door seal

Special tools and workshop equipment required

- ◆ Roller - 3356-

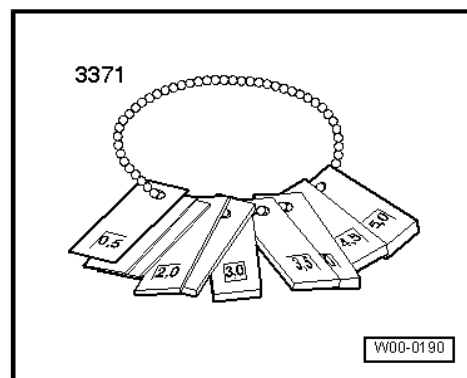


- ◆ Adhesive strip remover - VAS 6349-



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◆ Setting gauge - 3371-



◆ Template - T40038 /8-



Note

- ◆ *The vehicle and the outer door seal must be at room temperature.*
- ◆ *The complete outer door seal is bonded on and can only be renewed.*
- ◆ *Bonding surfaces must be free of dust and grease (clean with cleaning solution - D 009 401 04-).*
- ◆ *Apply primer - D 355 205 A2- to bonding surfaces using applicator - D 009 500 25- and allow to flash off.*
- ◆ *The water drain holes are positioned correctly when they are on the underside of the door.*

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1 - Rear door

2 - Outer door seal



Note

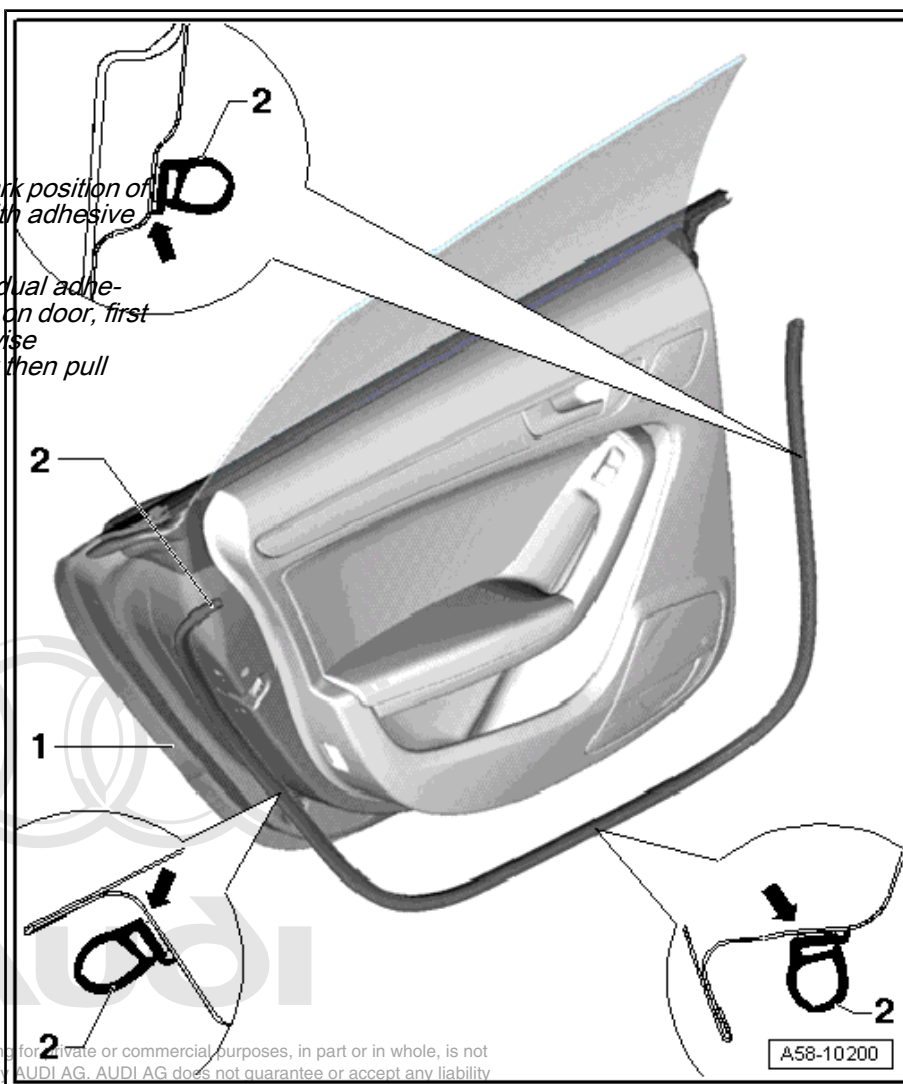
- ◆ Prior to removal, mark position of seal on door e.g. with adhesive tape.
- ◆ To prevent any residual adhesive from remaining on door, first stretch seal lengthwise ⇒ [page 99](#) and only then pull seal off door.

□ Removing

- Stretch seal lengthwise and then gradually pull off upwards ⇒ [page 99](#).

□ Installing

- Before installing, remove any adhesive residue and clean bonding surface with cleaning solution - D 009 40104-.
- Apply primer - D 355 205 A2- to bonding surface using applicator - D 009 500 25- and allow to flash off.
- Fasten outer door seal behind door arrester.
- Align seal in area of B-pillar up to markings in window slot trim strip and fix in position with adhesive tape.
- Peel off protective film in area of underside of door.
- Starting in centre and working outwards to both sides, press outer door seal onto underside of door according to markings.
- Gradually peel protective film off further and press on outer door seal.
- Press rear end of seal upwards into transition area of radius/according to markings and slide it into window slot trim strip in area of C-pillar.

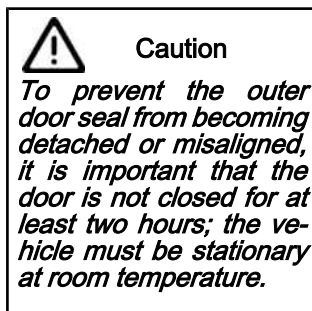


Caution

When installing, do not stretch or compress the door seal.

If the outer door seal is stretched or compressed on the underside, at the A-pillar or at the B-pillar, the seal could become detached.

- Press seal into place all around door shell using roller - 3356- ⇒ [page 100](#).



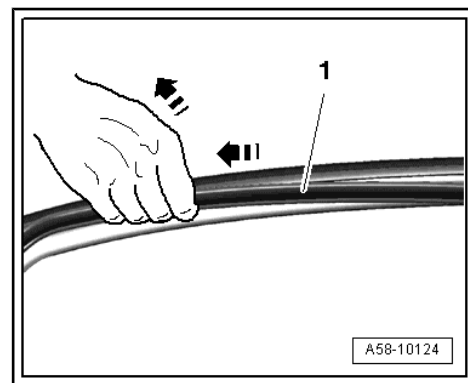
Detaching outer door seal



Note

By stretching the outer door seal lengthwise, the adhesive is separated from the door and the seal can be detached from the window frame without leaving any adhesive.

- Gradually stretch outer door seal lengthwise -arrow-, as shown, and detach.
- Proceeding step-by-step, pull outer door seal off all around door shell.
- Remove any residual adhesive from window frame with adhesive strip remover - VAS 6349- .



Installing outer door seal (on new door)



Note

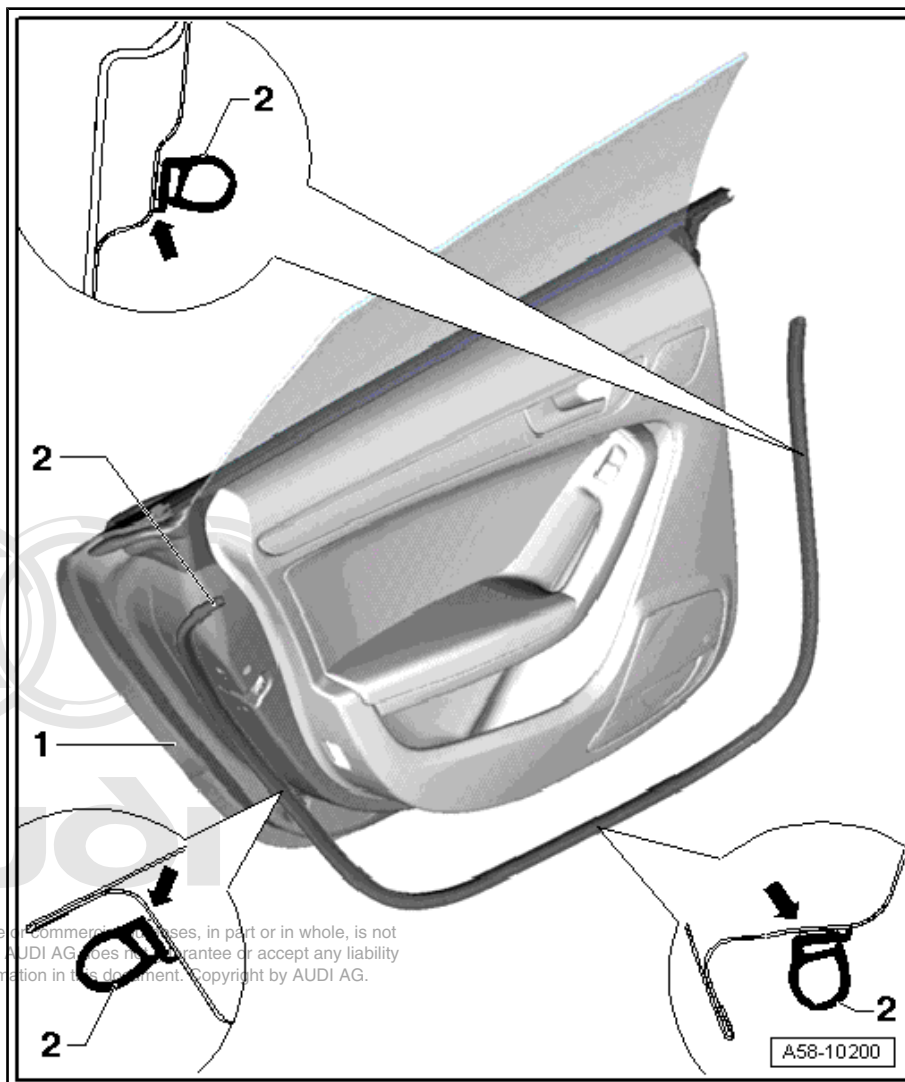
- ◆ *Align ends of seal in inner window slot trim strip according to markings made on door.*
- ◆ *When installing, seal must be pressed on in transition area of inner/outer radius of door shell contour, as shown in detail views -arrows-.*
- ◆ *Starting in the centre at the bottom and working outwards in both directions, gradually press on outer door seal; front edge of seal must be pressed on in transition areas of outside radius to straight sections (as shown in detail views).*

1 - Front door

2 - Outer door seal

- Align seal in area of B-pillar up to markings in window slot trim strip and fix in position with adhesive tape.
- Peel off protective film in area of underside of door.
- Starting in centre and working outwards in both directions, press outer door seal onto underside of door.
- On the underside of the door to the embossing, the rear edge of the seal must be positioned at the runout of the outer radius.
- Press rear end of seal upwards into transition area of radius and slide it into window slot trim strip in area of C-pillar.
- Press seal into place all around door shell using roller - 3356.

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Pressing on outer door seal

1 - Door

2 - Outer door seal

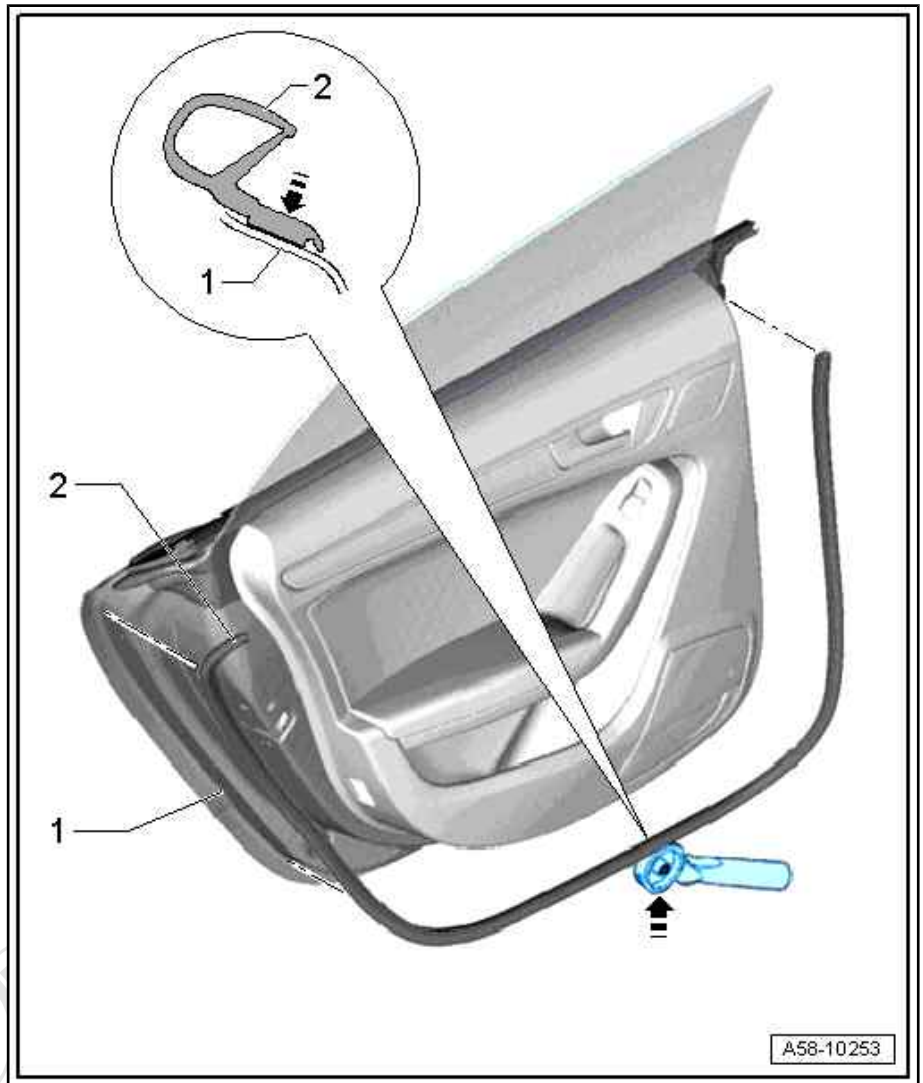
- After installing, base of outer door seal must be pressed firmly into place all around door shell, as shown in detail view.



Caution

Only press on base of outer door seal using roller - 3356-.

- To do so, fold open outer door seal as shown and press firmly into place using roller - 3356-.



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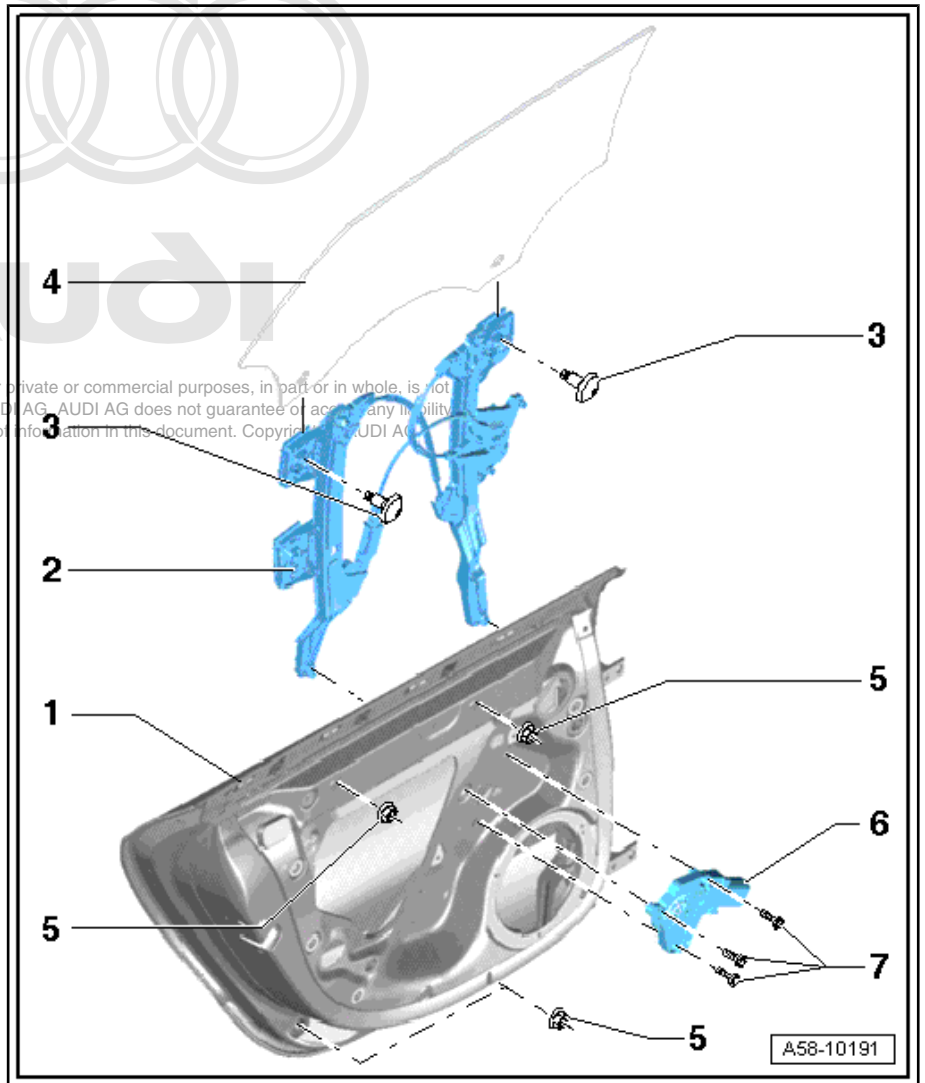
2 Door components

- ⇒ [“2.1 Exploded view - window regulator”, page 102](#)
- ⇒ [“2.2 Exploded view - door handle and door lock”, page 103](#)
- ⇒ [“2.3 Exploded view - housing”, page 107](#)
- ⇒ [“2.4 Exploded view - window slot trim strips”, page 108](#)
- ⇒ [“2.5 Removing and installing inner door cover”, page 109](#)
- ⇒ [“2.6 Removing and installing window regulator motor”, page 110](#)
- ⇒ [“2.7 Removing and installing window regulator”, page 111](#)
- ⇒ [“2.8 Removing and installing housing”, page 112](#)
- ⇒ [“2.9 Removing and installing cap for housing”, page 112](#)
- ⇒ [“2.10 Removing and installing door handle”, page 112](#)
- ⇒ [“2.11 Removing and installing door handle trim”, page 114](#)
- ⇒ [“2.12 Removing and installing contact sensor for rear exterior door handle G417 / G418”, page 114](#)
- ⇒ [“2.13 Removing and installing door lock”, page 115](#)
- ⇒ [“2.14 Removing and installing mounting bracket”, page 116](#)
- ⇒ [“2.15 Removing and installing operating cable for door lock”, page 117](#)
- ⇒ [“2.16 Removing and installing operating cable for interior door handle”, page 118](#)
- ⇒ [“2.17 Removing and installing striker”, page 119](#)
- ⇒ [“2.18 Removing and installing outer window slot trim strip”, page 120](#)

2.1 Exploded view - window regulator

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- 1 - Door
- 2 - Window regulator
 - ☐ Removing and installing
⇒ [page 111](#)
- 3 - Bolt
 - ☐ 9 Nm
- 4 - Door window
 - ☐ Removing and installing
⇒ [page 180](#)
- 5 - Nut
 - ☐ 12 Nm
- 6 - Window regulator motor
 - ☐ Removing and installing
⇒ [page 69](#)
- 7 - Bolt
 - ☐ 3x
 - ☐ 3.5 Nm



2.2 Exploded view - door handle and door lock

Door handle and door lock ⇒ [page 103](#)

Door lock and striker ⇒ [page 105](#)

Door lock ⇒ [page 105](#)

Door handle and door lock

1 - Exterior door handle



Note

On vehicles with conventional key, the sensors for registering when the door handles (rear) are touched (-G417/-G418-) are located in the exterior door handle.

- ☐ Before fitting door handle, slide backing plates (front and rear) into outer door panel.

- ☐ Removing and installing ⇒ [page 112](#)

2 - Bolt

- ☐ 2.5 Nm

3 - Backing plate (front)

4 - Backing plate (rear)

5 - Cap

- ☐ Unclip before removing door handle

6 - Bolt

- ☐ 19 Nm

7 - Door lock



Caution

Risk of malfunctions.

To prevent the operating cable from being kinked or bent too much when it is disengaged/engaged, the door lock must be removed and installed together with the mounting bracket.

The operating cable must be engaged in/disengaged from the operating lever on the door with the components removed from the vehicle.

- ☐ Removing and installing ⇒ [page 115](#)

8 - Mounting bracket

- ☐ Backing plate (rear) -5- pushed into outer door panel

- ☐ When installing, engage mounting bracket in door with bolt -10- screwed in loosely. Then push towards front and tighten bolt to 2.5 Nm.

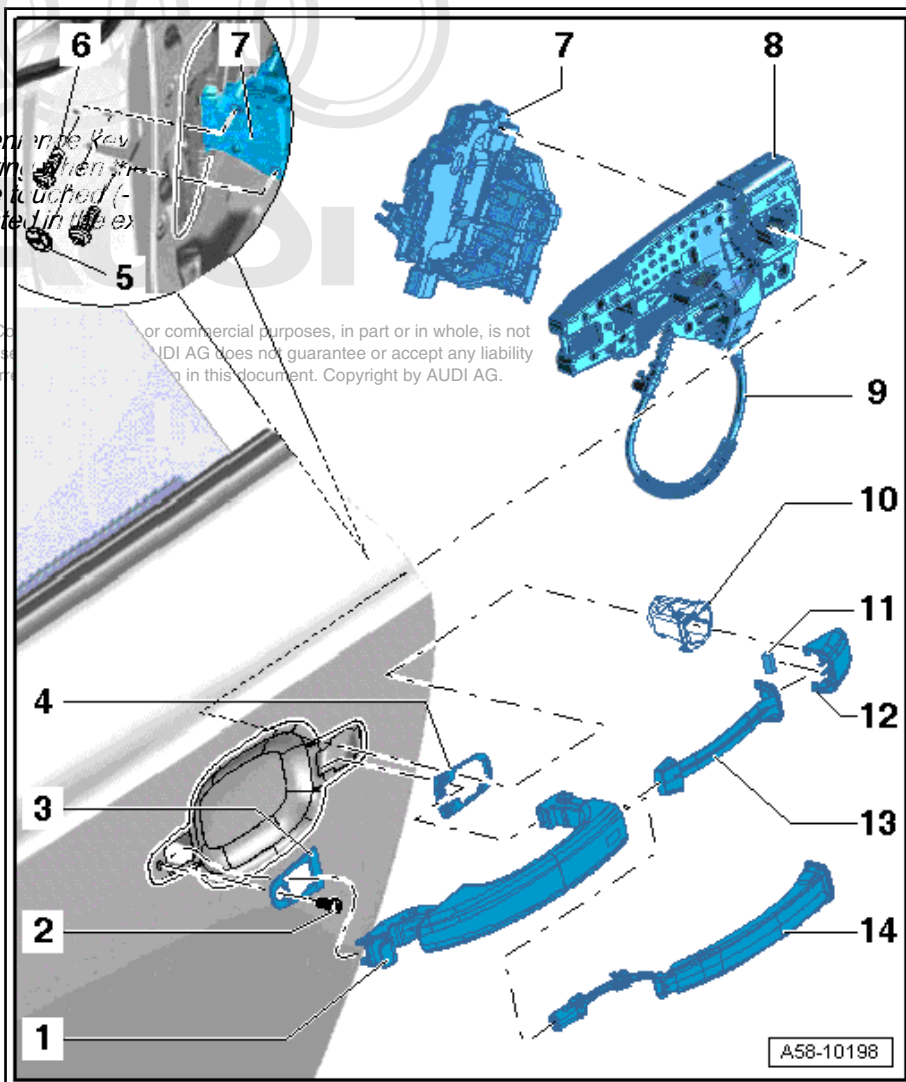
9 - Operating cable

- ☐ Engage in door lock

10 - Housing

- ☐ Before installing, attach trim cap -7-.

- ☐ Removing ⇒ [page 112](#)



11 - Magnet

- ☐ For vehicles with convenience key

12 - Cap

- ☐ Removing and installing ⇒ [page 112](#)

13 - Trim for exterior door handle

- ☐ For vehicles without convenience key
- ☐ Removing and installing ⇒ [page 74](#)

14 - Door handle touch sensor

- ☐ For vehicles with convenience key
- ☐ Removing and installing ⇒ [page 114](#)

Door lock and striker

1 - Striker

- ☐ Removing and installing
⇒ [page 119](#)

2 - Bolt

- ☐ 25 Nm

3 - Bolt

- ☐ 19 Nm

4 - Operating cable for door lock

5 - Door lock

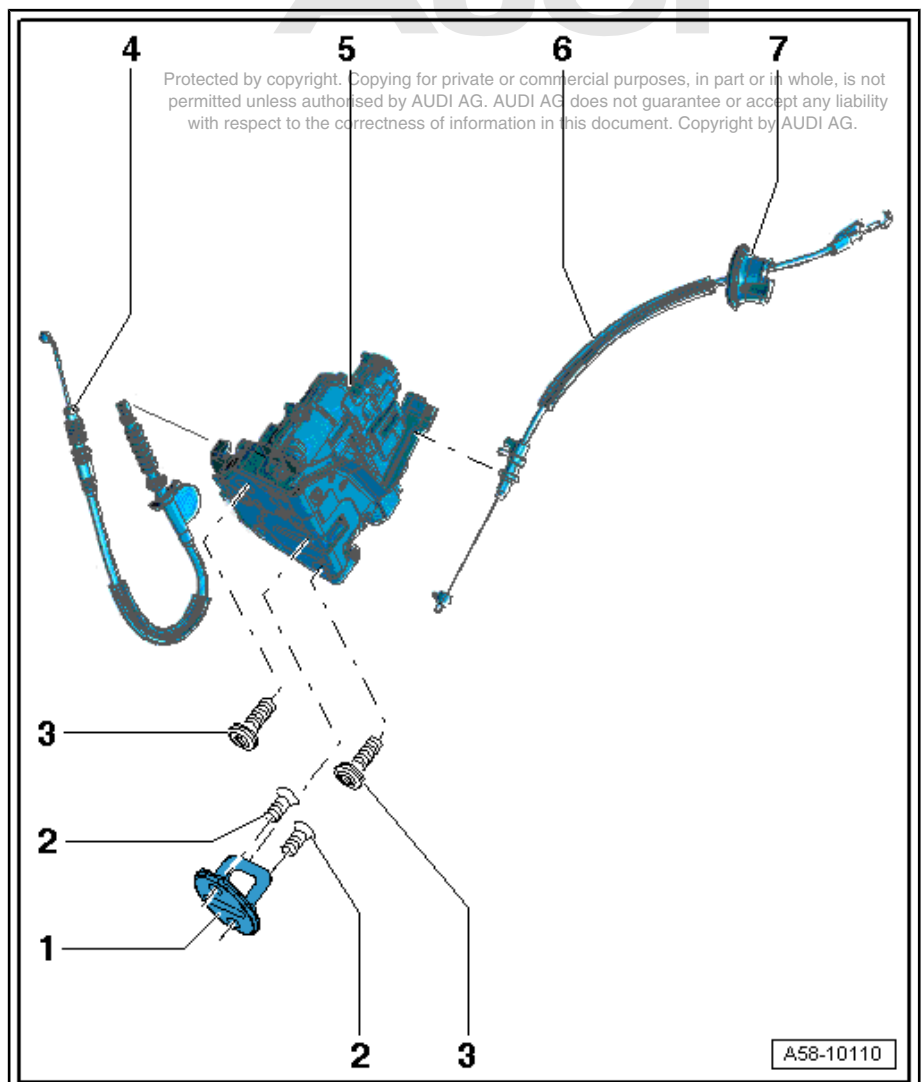
- ☐ Removing and installing
⇒ [page 115](#)

6 - Operating cable for interior door handle

- ☐ Removing and installing
⇒ [page 118](#)

7 - Grommet

- ☐ Cannot be renewed separately



Door lock

1 - Door lock

- ❑ Removing and installing
⇒ [page 115](#)

2 - Door

3 - Operating cable for interior door handle

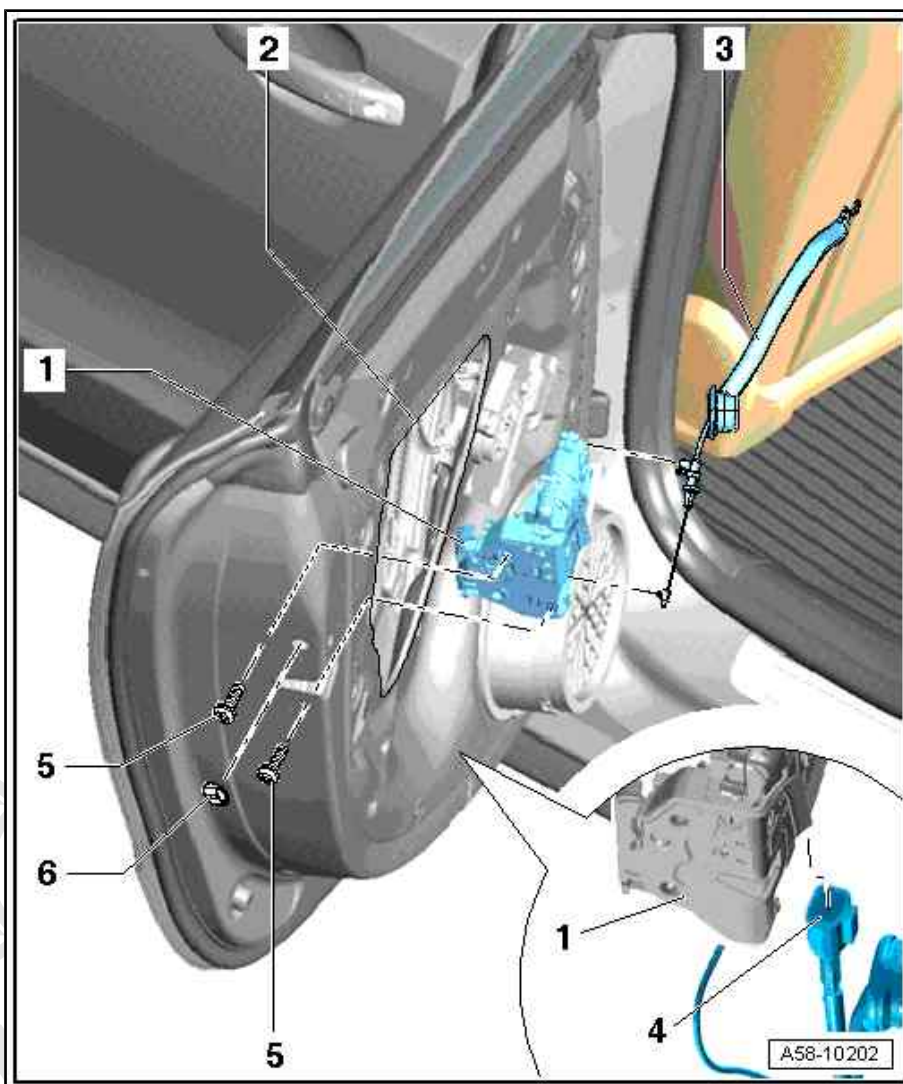
- ❑ Removing and installing
⇒ [page 118](#)

4 - Electrical connector

5 - Bolt

- ❑ Tightening torque
⇒ [Item 3 \(page 105\)](#)

6 - Cap



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2.3 Exploded view - housing

1 - Cap

- ❑ Detaching from housing
⇒ [page 112](#)

2 - Magnet

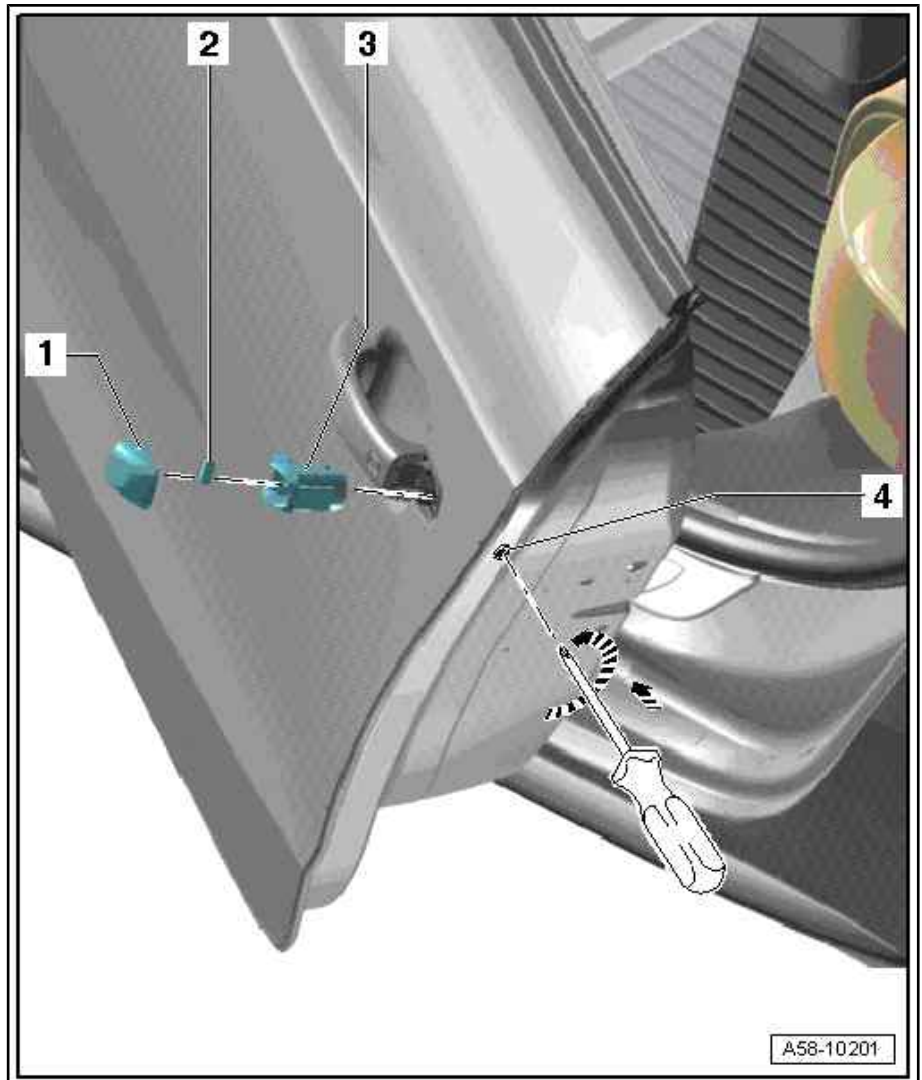
- ❑ Only for vehicles with convenience key

3 - Housing

- ❑ Prise cover out of door.
- ❑ Unscrew bolt all the way out of retaining clip with a screwdriver.
- Press back retainer with screwdriver and pull housing with cap out towards side.

4 - Retaining clip

- ❑ No replacement part; only supplied with mounting bracket



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2.4 Exploded view - window slot trim strips

1 - Door

2 - Outer window slot trim strip

□ Removing:

Door trim removed ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim (rear); Removing and installing door trim (rear)

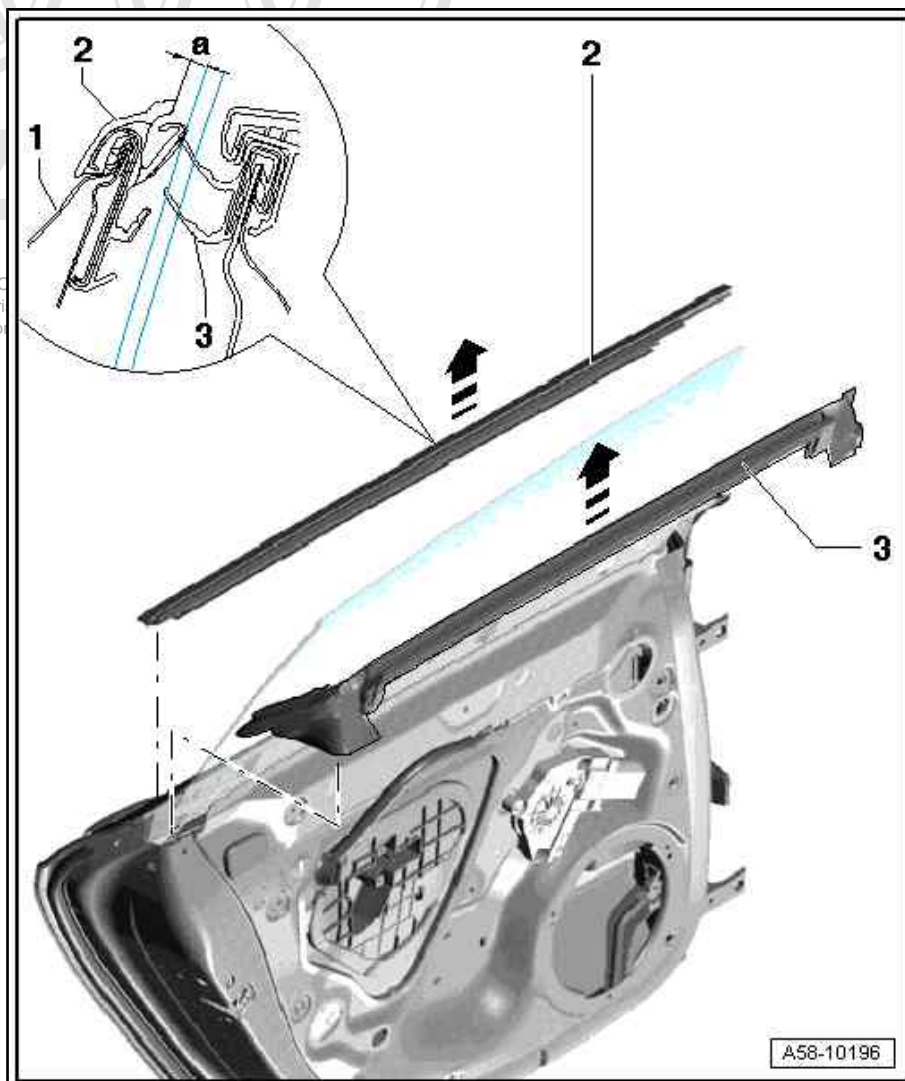
- Raise door window right to top. permitted unless authorized with respect to the color
- Remove slot trim strip ⇒ [page 120](#).

3 - Inner window slot trim strip

□ Removing:

Door trim removed ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim (rear); Removing and installing door trim (rear)

- First unclip slot trim strip from door in area of C-pillar (3x) and then in area of B-pillar (1x).
- Pull slot trim strip upwards off door.



2.5 Removing and installing inner door cover

1 - Cover

- Remove door trim => General body repairs, interior; Rep. gr. 70 ; Door trim (rear); Removing and installing door trim (rear) .
- Disengage electrical wiring harness -5- from retainer -6-.
- When removing cover, it is important to start at the top.

2 - Grommet

- ☐ When installing, make sure component is seated correctly -arrows-.

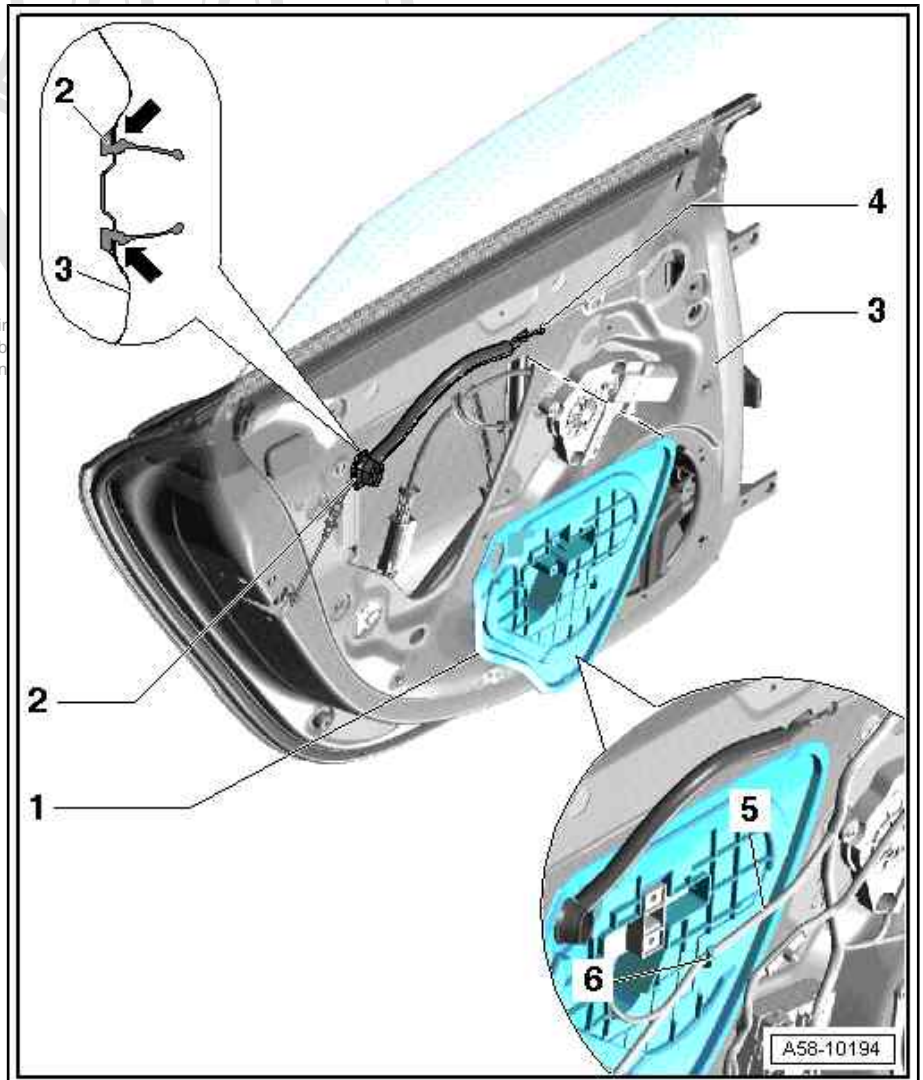
3 - Inner door panel

4 - Cable

5 - Electrical wire

- ☐ Disengage from retainer -6-.

6 - Bracket



2.6 Removing and installing window regulator motor

1 - Electrical connector

- Unplug electrical connector at window regulator motor.

2 - Window regulator motor



Note

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

□ Removing:

- Remove door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim (rear); Removing and installing door trim (rear) .
- Unscrew bolts -6- and detach window regulator motor from window regulator.

□ Installing

- Tightening torque ⇒ [page 64](#)

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

- Retaining clips -arrow- of threaded pins for window regulator must be engaged in inner door panel.
- Slide window regulator motor onto threaded pins and tighten bolts -6-.



Note

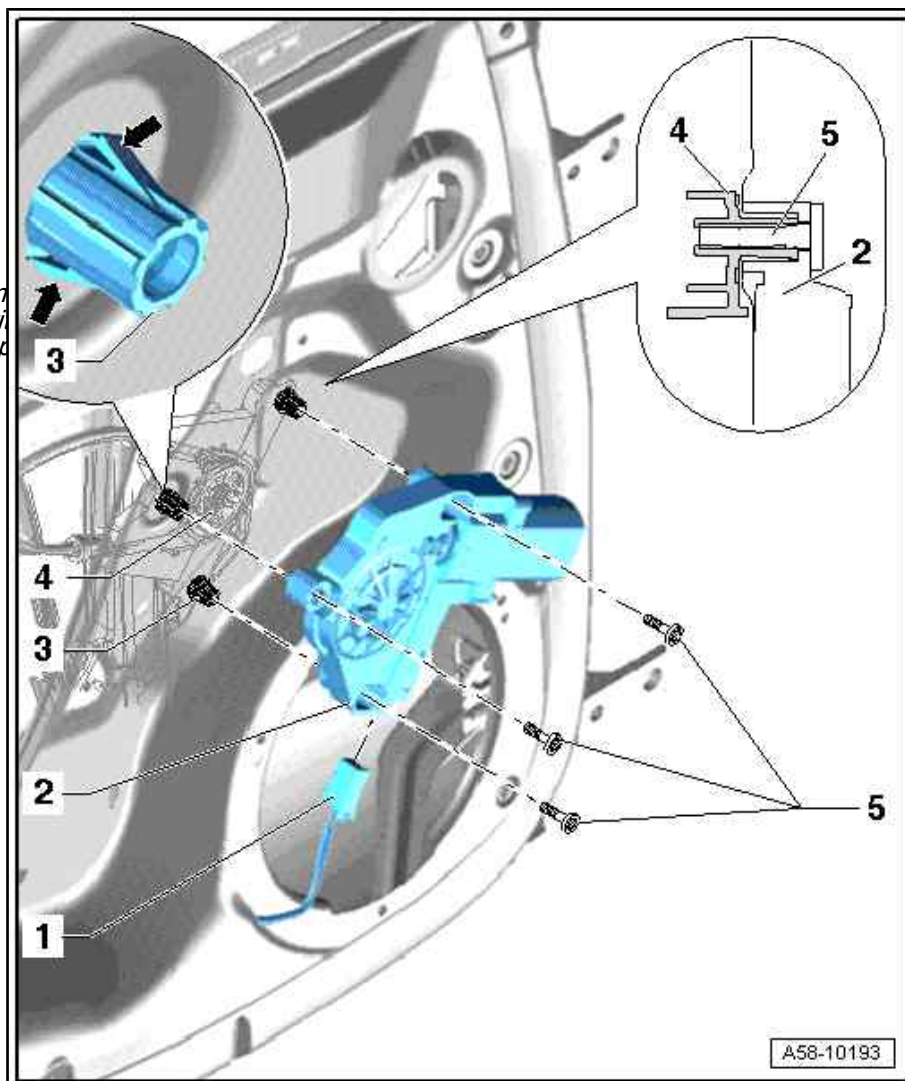
- ◆ With the window regulator switches connected, switch on the ignition and raise the door windows as far as they will go.
- ◆ Keep the window regulator switches pulled for approx. another 2 seconds to activate the basic setting and the one-touch open/close function.

3 - Threaded pin

4 - Window regulator

5 - Bolt

- Tightening torque ⇒ [Item 7 \(page 103\)](#)



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2.7 Removing and installing window regulator

1 - Window regulator

- ☐ Removing:
- ☐ Door trim removed ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim (rear); Removing and installing door trim (rear)
- ☐ Window regulator motor removed ⇒ [page 110](#)
- ☐ Door window removed ⇒ [page 180](#)
- ☐ Cover for inner door panel removed ⇒ [page 109](#)
- Release threaded pins for window regulator motor and push through inner panel ⇒ [page 111](#) .
- Unscrew nuts (top and bottom) and lift window regulator through opening in inner door panel and out of door.

2 - Door

3 - Nut

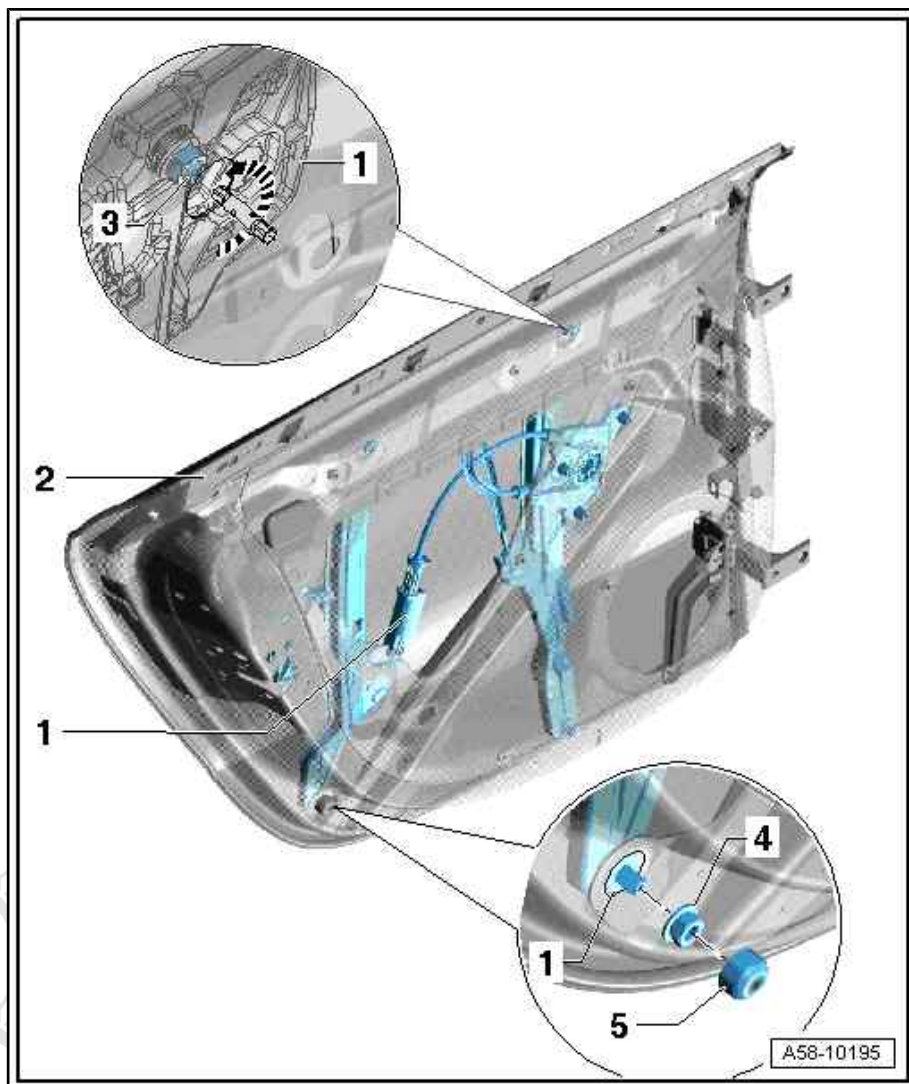
- ☐ Only loosen to remove window regulator.

4 - Nut

- ☐ Unscrew to remove window regulator.

5 - Cap

- ☐ Attached to nut



Releasing threaded pins

- Use an 11 mm socket to release retaining clips, arrow of threaded pins 1, for window regulators (slide socket over threaded pins).



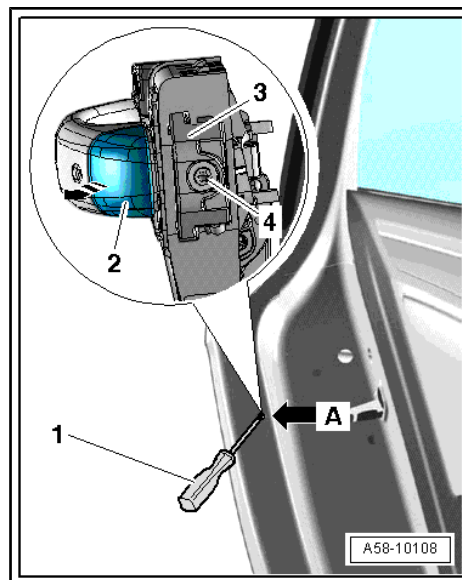
2.8 Removing and installing housing

Removing

- Push door seal to side and peel off protective film over hole -arrow A-.
- Unscrew clamping bolt -4- as far as possible using a screwdriver -1-.
- Push retainer -3- for housing inwards.
- Pull housing -2- out of mounting bracket -arrow B-.

Installing

Install in reverse sequence.



2.9 Removing and installing cap for housing

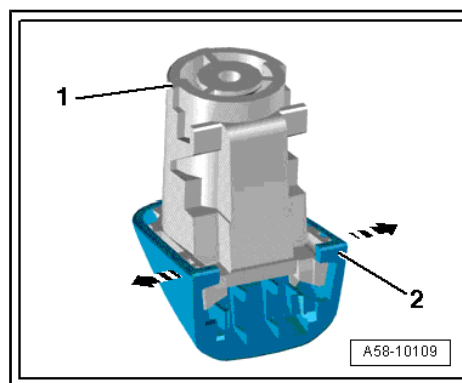
Removing

- Remove housing ⇒ [page 107](#) .
- Pull retaining clips apart -arrows- and detach cap -2- from housing -1-, using an awl if necessary.

Installing

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

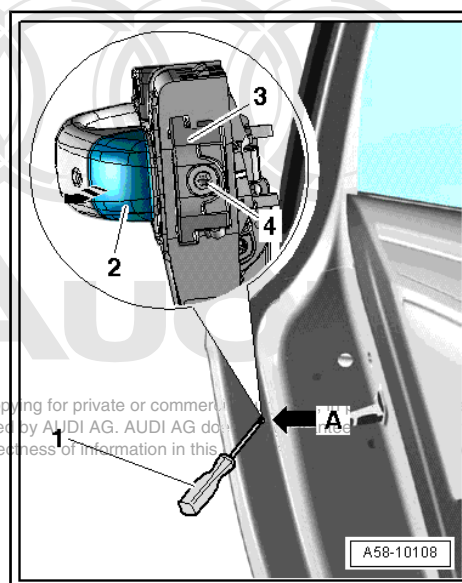
- Press on housing cap until it engages audibly.



2.10 Removing and installing door handle

Removing

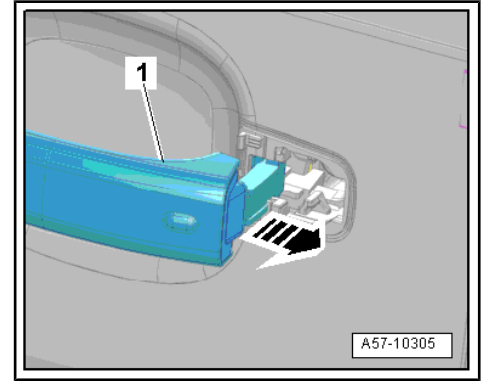
- Push door seal to side and peel off protective film over hole -arrow A-.
- Unscrew clamping bolt -4- as far as possible using a screwdriver -1-.
- Pull exterior door handle outwards and hold in "open" position.
- Press retainer -3- for housing inwards. Exterior door handle is locked in "open" position.
- Pull housing -2- out of mounting bracket -arrow B-.



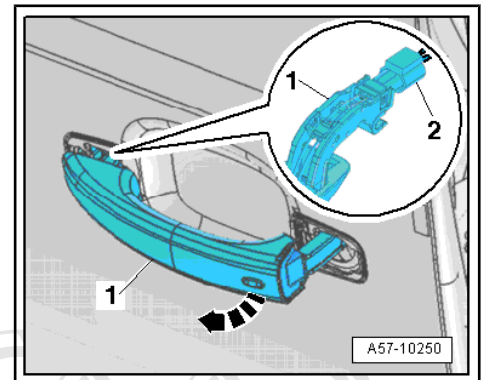
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- Pull exterior door handle -1- in direction of -arrow-; exterior door handle will be detached from operating lever in mounting bracket.



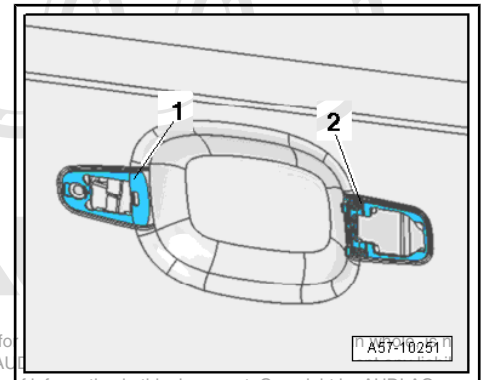
- Swivel exterior door handle -1- outwards -arrow- and take out of mounting on mounting bracket.
- On vehicles with convenience key, unplug electrical connector -2- at exterior door handle.



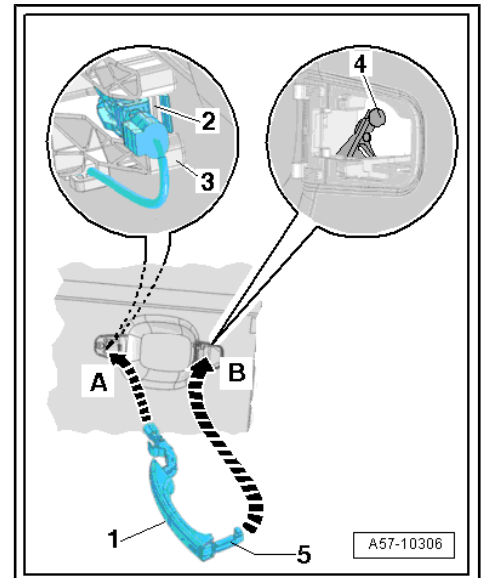
Installing

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

- Renew backing plates -1- and -2- for door handle if they are damaged or brittle.



- Insert exterior door handle -1- -arrow A-, making sure that exterior door handle engages in mounting -2- on mounting bracket -3-.
- Swivel exterior door handle -1- in direction of -arrow B- and push in »driver« -5- in front of operating lever -4- in mounting bracket.
- Press retainer for housing towards exterior door handle.
- Install housing ⇒ [page 107](#) .



2.11 Removing and installing door handle trim

On vehicles without convenience key, trim is fitted instead of contact sensor for exterior door handle.

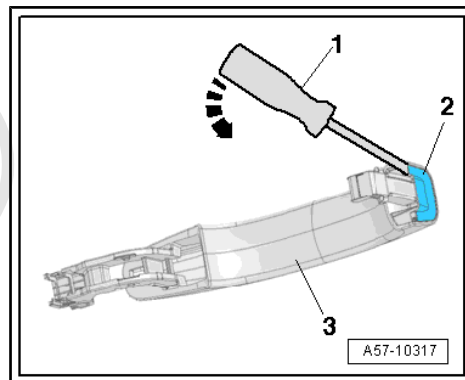
Removing

- Remove exterior door handle.
- Prise out trim -2- for exterior door handle using an awl -1- at point indicated in illustration -arrow-.
- Pull trim for exterior door handle out of exterior door handle -3-.

Installing

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

- Push in trim for exterior door handle until it engages audibly.
- Install exterior door handle.
- Install housing ⇒ [page 107](#) .



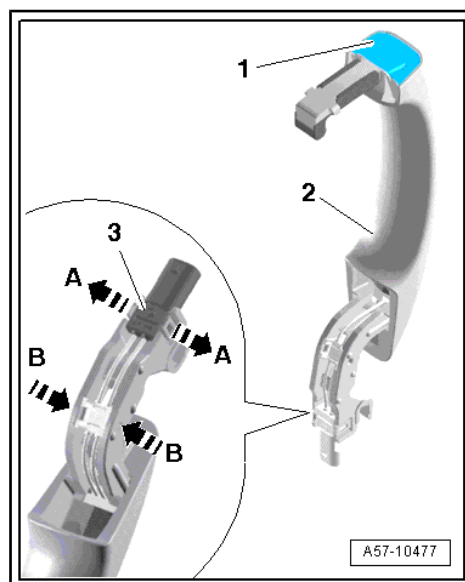
2.12 Removing and installing contact sensor for rear exterior door handle -G417- / -G418-



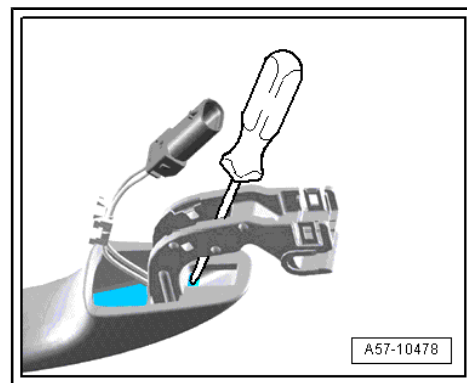
Caution

Proceed exactly as follows to avoid damaging the sensor.

- Remove exterior door handle -2- with sensor -1- ⇒ [page 112](#) .



- Use a small screwdriver to carefully release fasteners at -arrows A and B- and press connector -3- with cable guide to side.
- Insert screwdriver in front of sensor, as shown.
- Turning screwdriver slightly, press sensor forwards out of exterior door handle.
- Pull sensor out of exterior door handle.



2.13 Removing and installing door lock



Caution

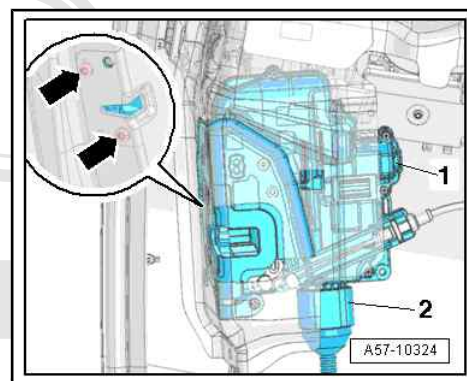
Risk of malfunctions.

To prevent the operating cable from being kinked or bent too much when it is disengaged/engaged, the door lock must be removed and installed together with the mounting bracket.

Therefore the operating cable must be engaged in/disengaged from the operating lever on the door lock with the components removed from the vehicle.

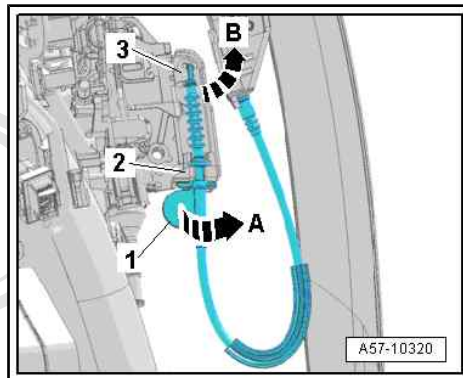
Removing

- Remove housing ⇒ [page 107](#) .
- Remove door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim (rear); Removing and installing door trim (rear) .
- Remove cover for inner door panel ⇒ [page 109](#) .
- Remove mounting bracket ⇒ [page 116](#) .
- Remove bolts -arrows-.
- Unplug electrical connector -2- and take out door lock -1- together with mounting bracket.



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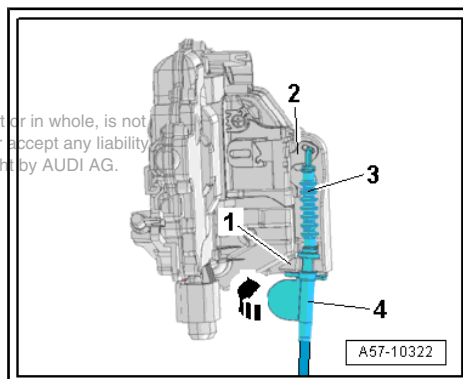
- Turn operating cable on lever -1- 90° in direction of -arrow A- and take it out of cable support bracket -2-.
- Turn operating cable on operating lever -3- for door lock in direction of -arrow B-.
- The operating cable must be aligned with the opening on the operating lever.
- Disengage operating cable from operating lever.



Installing

Install in reverse sequence.

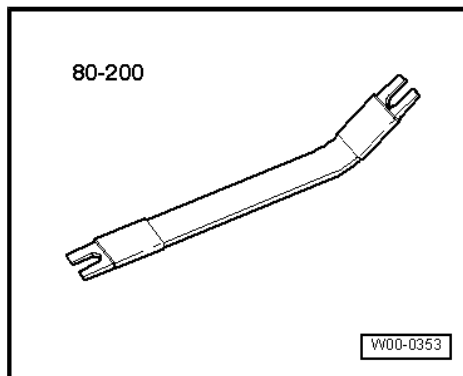
- Engage operating cable -3- in operating lever -2- for door lock.
- Insert operating cable into support bracket -1- and turn lever -4- 90° -arrow-.
- Lug on lever must engage audibly in cable support bracket.



2.14 Removing and installing mounting bracket

Special tools and workshop equipment required

- ♦ Removal lever - 80 -200 -



Caution

Risk of malfunctions.

To prevent the operating cable from being kinked or bent too much when it is disengaged/engaged, the door lock must be removed and installed together with the mounting bracket.

Therefore the operating cable must be engaged in/disengaged from the operating lever on the door lock with the components removed from the vehicle.

Removing

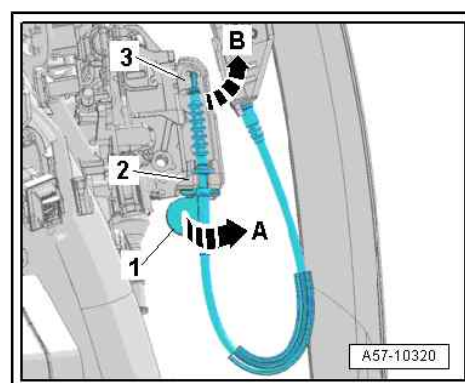
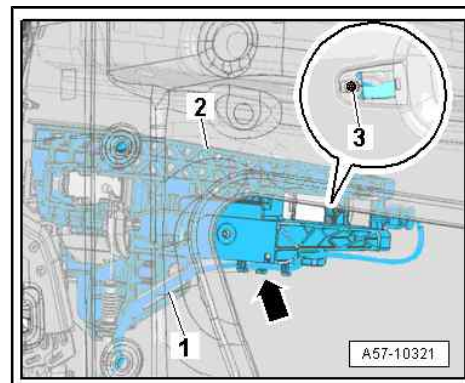
- Remove door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim (rear); Removing and installing door trim (rear) .

- Remove cover for inner door panel ➔ [page 109](#) .
- Remove exterior door handle ➔ [page 112](#) .
- Where fitted, disengage electrical wiring from mounting bracket -arrow-.
- Move clear binding clip -1- of electrical wire with removal lever - 80-200 - .

 Note

Use soap solution to aid removal if necessary.

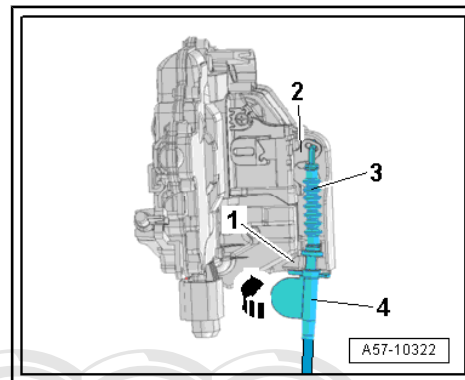
- Unscrew bolt -3- and detach mounting bracket -2-.
- Take out mounting bracket together with door lock.
- Turn operating cable on lever -1- 90° in direction of -arrow A- and take it out of cable support bracket -2-.
- Turn operating cable on operating lever -3- for door lock in direction of -arrow B-.
- The operating cable must be aligned with the opening on the operating lever.
- Disengage operating cable from operating lever.



Installing

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

- Engage operating cable -3- in operating lever -2- for door lock.
- Insert operating cable into support bracket -1- and turn lever -4- 90° -arrow-.
- Lug on lever must engage audibly in cable support bracket.



2.15 Removing and installing operating cable for door lock



Caution

Risk of malfunctions.

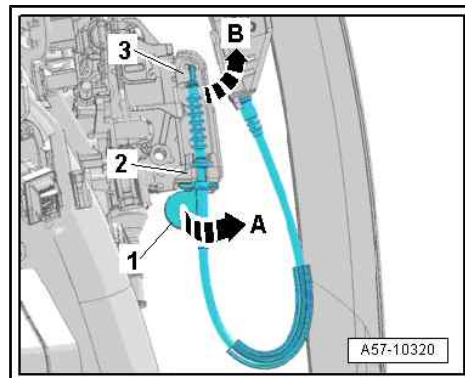
To prevent the operating cable from being kinked or bent too much when it is disengaged/engaged, the door lock must be removed and installed together with the mounting bracket.

Therefore the operating cable must be engaged in/disengaged from the operating lever on the door lock with the components removed from the vehicle.

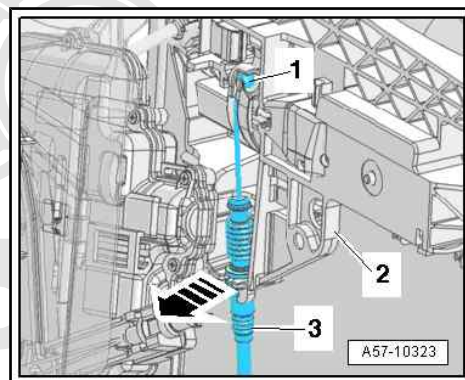
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Removing

- Remove door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim (rear); Removing and installing door trim (rear) .
- Remove cover for inner door panel ⇒ [page 109](#) .
- Mounting bracket and door lock removed
- Turn operating cable on lever -1- 90° in direction of -arrow A- and take it out of cable support bracket -2-.
- Turn operating cable on operating lever -3- for door lock in direction of -arrow B-.
- The operating cable must be aligned with the opening on the operating lever.



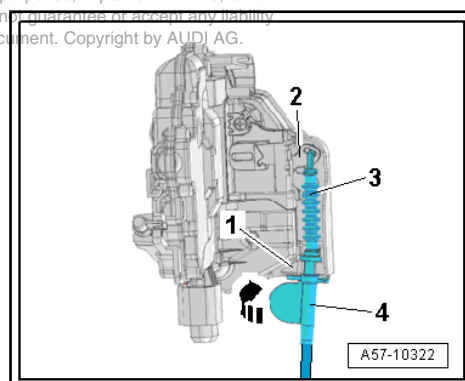
- Disengage operating cable -1- from operating lever by pressing cable support bracket -3- out of mounting on mounting bracket -2- -arrow-.
- Take out operating shaft.



Installing

Install in reverse sequence.

- Engage operating cable -3- in operating lever -2- for door lock.
- Insert operating cable into support bracket -1- and turn lever -4- 90° -arrow-.
- Lug on lever must engage audibly in cable support bracket.

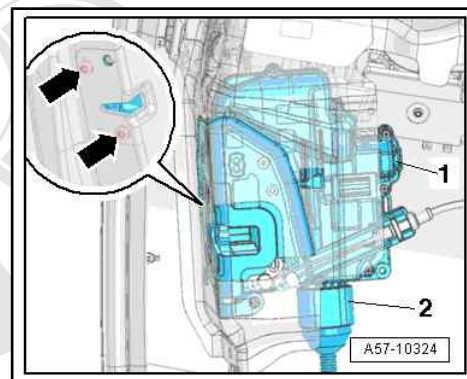


2.16 Removing and installing operating cable for interior door handle

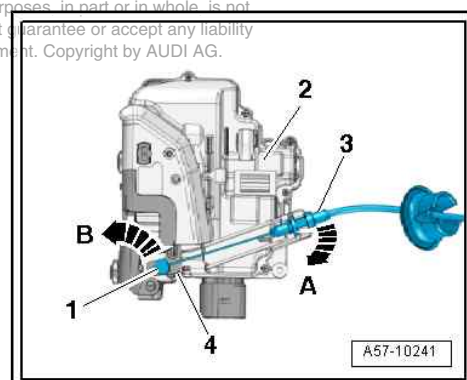
Removing

- Remove housing ⇒ [page 107](#) .
- Remove door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim (rear); Removing and installing door trim (rear) .
- Remove cover for inner door panel ⇒ [page 109](#) .

- Remove bolts -arrows-.
- Press door lock -1- to the side. If fitted, unplug electrical connector -2-.



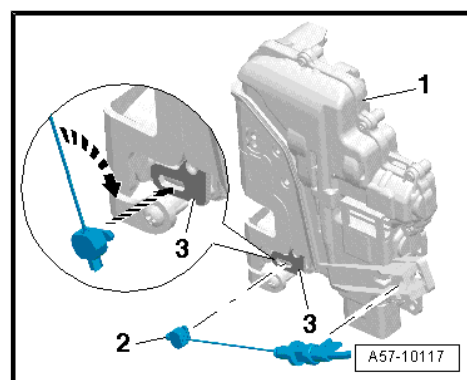
- Disengage operating cable -3- from door lock support bracket -2- -arrow A-.
- Turn nipple -1- 90° in direction of -arrow B- and take it out of door opener release lever -4-.



Installing

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

- Insert nipple -2- in door opener release lever -3- -bottom arrow-.
- Turn nipple 90° -top arrow- and press operating cable into cable support bracket on door lock -1- until it engages audibly.



2.17 Removing and installing striker

Removing

- Unscrew bolts -2- and detach striker -1-.

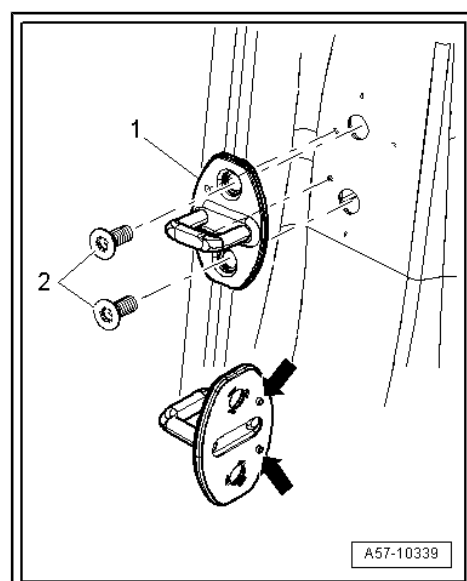
Installing

Install in reverse sequence.



Note

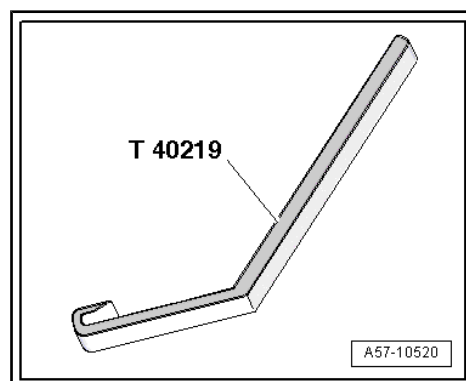
- ♦ The striker shim plate with the pins -arrows- must be positioned exactly in the hole.
- ♦ After adjusting the striker, the pins must be sheared off cleanly.
- ♦ When a new part is installed, the sheared-off striker pins must be removed from the vehicle.
- Adjust striker ⇒ [page 93](#).



2.18 Removing and installing outer window slot trim strip

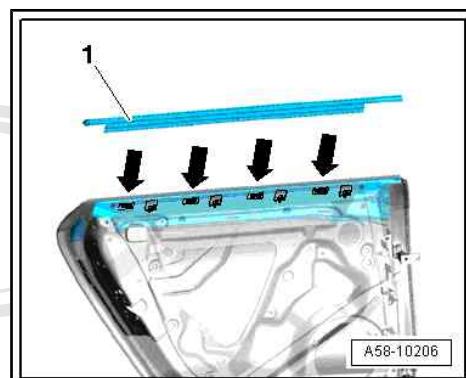
Special tools and workshop equipment required

- ◆ Removal tool - T40219- (3x)



Removing

- Open door window.
- Door trim removed ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim (rear); Removing and installing door trim (rear)
- Trim panel for C-pillar removed
- Before window slot trim strip -1- can be detached, it must first be released from retaining hooks -arrows- on door.



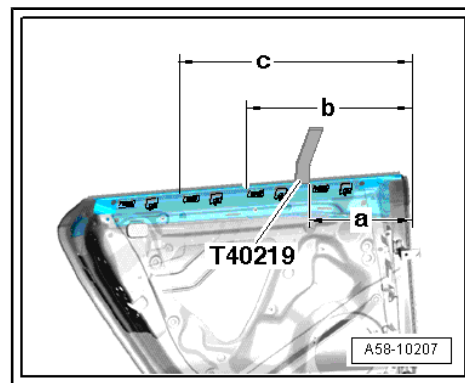
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- Insert first removal tool - T40219- between door window and window slot trim strip in area of C-pillar (between outer window slot trim strip and door window).
- Move first removal tool - T40219- forwards and to the side until distance corresponds to »dimension a«.
- Pull first removal tool - T40219- upwards and simultaneously insert it in window slot trim strip.



Note

Marking on removal tool - T40219- must be flush with top edge of window slot trim strip.



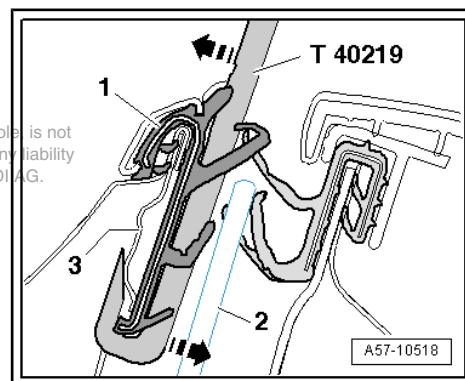
- Repeat the procedure for the second and third removal tool (insert until distance corresponds to »dimension b«/»dimension c«).

2) The dimensions are measured at the window slot trim strip starting at the B-pillar.

- Dimension a = approx. 260 mm
- Dimension b = approx. 445 mm
- Dimension b = approx. 625 mm

- Press removal tool - T40219- slightly outwards and release window slot trim strip.

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- Gradually release entire window slot trim trip -2-; only then should it be lifted off door flange -1-.

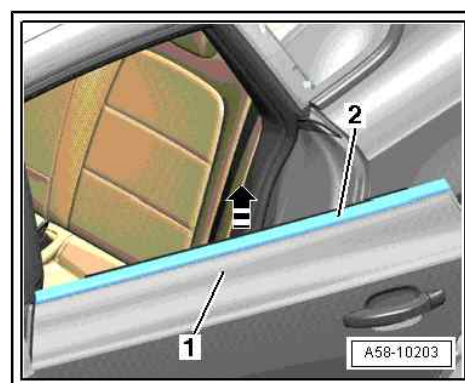
Installing



WARNING

The retaining hooks on the outer door panel must not be bent open and must make contact with the door window; if necessary, bend them back into their original shape.

- Starting at B-pillar, press outer window slot trim strip by hand completely into retaining hooks on door.



60 – Sunroof

1 Sliding sunroof

⇒ [“1.1 Exploded view - sliding sunroof”, page 122](#)

⇒ [“1.2 Removing and installing sunroof panel”, page 126](#)

⇒ [“1.3 Adjusting sunroof panel”, page 127](#)

⇒ [“1.4 Removing and installing wind deflector”, page 127](#)

⇒ [“1.5 Removing and installing sunroof seals”, page 127](#)

⇒ [“1.6 Removing and installing sun blind”, page 128](#)

⇒ [“1.7 Adapting sliding sunroof adjustment control unit J245 ”, page 128](#)

⇒ [“1.8 Checking and adjusting zero position for cables \(slotted guide\)”, page 129](#)

⇒ [“1.9 Adjusting zero position for sliding sunroof adjustment control unit J245 \(motor\)”, page 129](#)

1.1 Exploded view - sliding sunroof

Sunroof frame, wind deflector and motor ⇒ [page 122](#)

Bellows ⇒ [page 124](#)

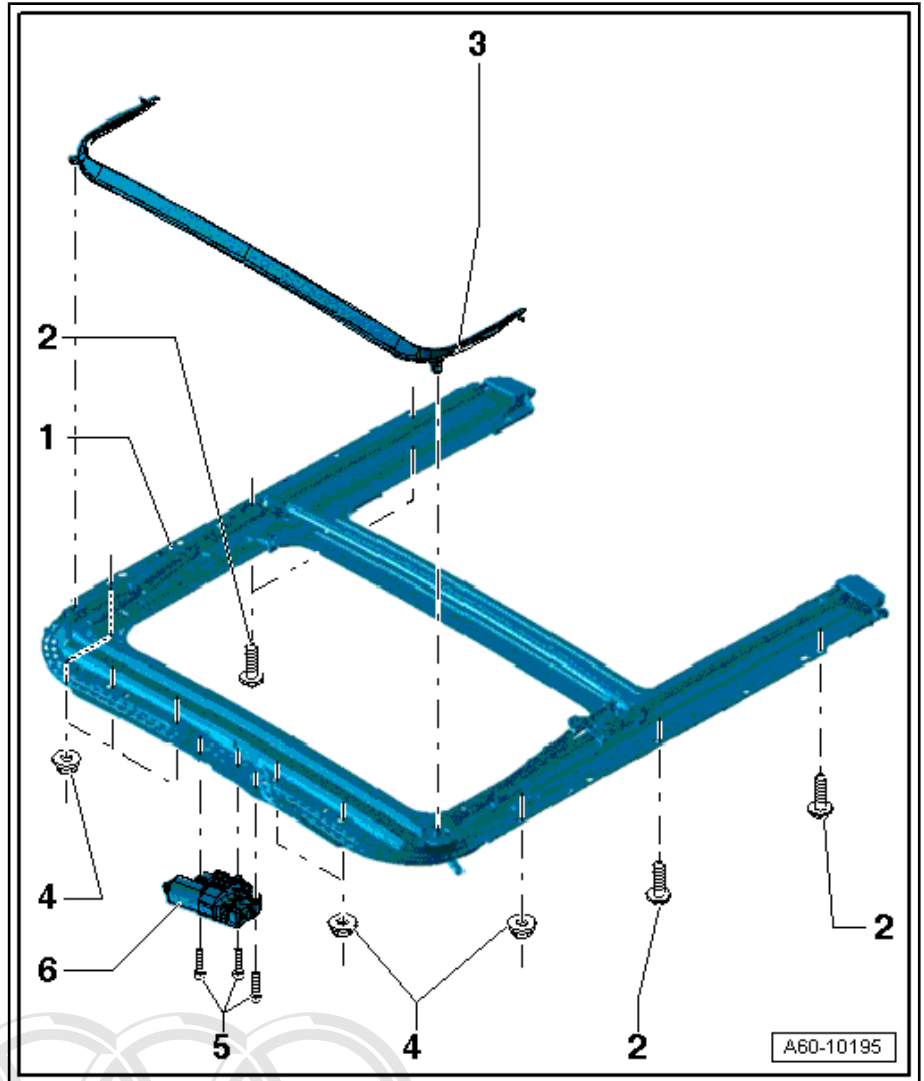
Sunroof panel ⇒ [page 125](#)

Sunroof frame, wind deflector and motor

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1 - Frame

- ☐ Removing:
- ☐ Fold seat backrests as far as possible to the rear.
- ☐ Lower headliner ➔ General body repairs, interior; Rep. gr. 70 ; Roof trim panels; Removing and installing moulded headliner .
- ☐ Sunroof panel removed
- ☐ Detach water drain hoses.
- Remove nuts -4- and bolts -2- from frame.
- Lift frame out of vehicle through rear door.
- ☐ Installing:
- Bolt frame loosely onto roof with nuts and bolts.
- Fit water drain hoses.
- Use $\varnothing$ 12 mm drill bit (front right) and $\varnothing$ 10 mm drill bit to secure frame in body ➔ [page 124](#) , and, starting at front (centre) and working towards rear, tighten nuts (left and right) to torque.
- Tighten bolts to torque in same sequence.



2 - Bolt

- ☐ 8 Nm

3 - Wind deflector

- ☐ Removing ➔ [page 127](#)

4 - Nut

- ☐ 8 Nm

5 - Bolt

- ☐ 4 Nm
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6 - Motor

- ☐ Removing:



Note

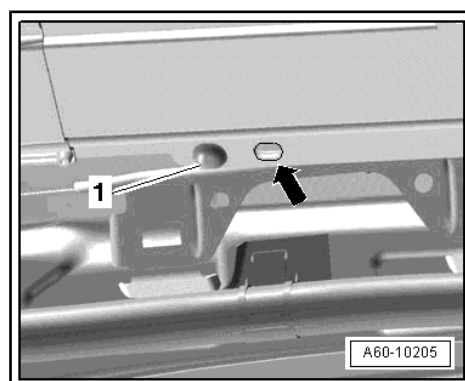
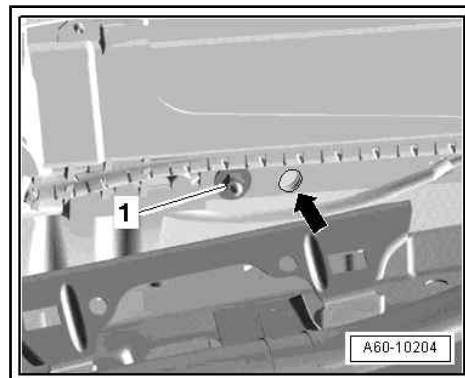
Remove motor only with roof panel closed.

- Interior light removed
- Unplug electrical connector for motor.
- Unscrew bolts -5- and take motor out of headliner opening.

- ❑ After removing and installing a motor, motor must be adapted ⇒ [page 128](#) .

Attachment points for frame

- When installing sunroof, frame must be fixed in position at front right -arrow- after first nut -1- with a Ø 12 mm drill and...
- ... at rear left (slot) -arrow- before final bolt -1- with a Ø 10 mm drill.
- Tighten nuts and bolts to torque, starting at front (centre) and working towards rear ⇒ [page 122](#) .



Bellows



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1 - Bolt

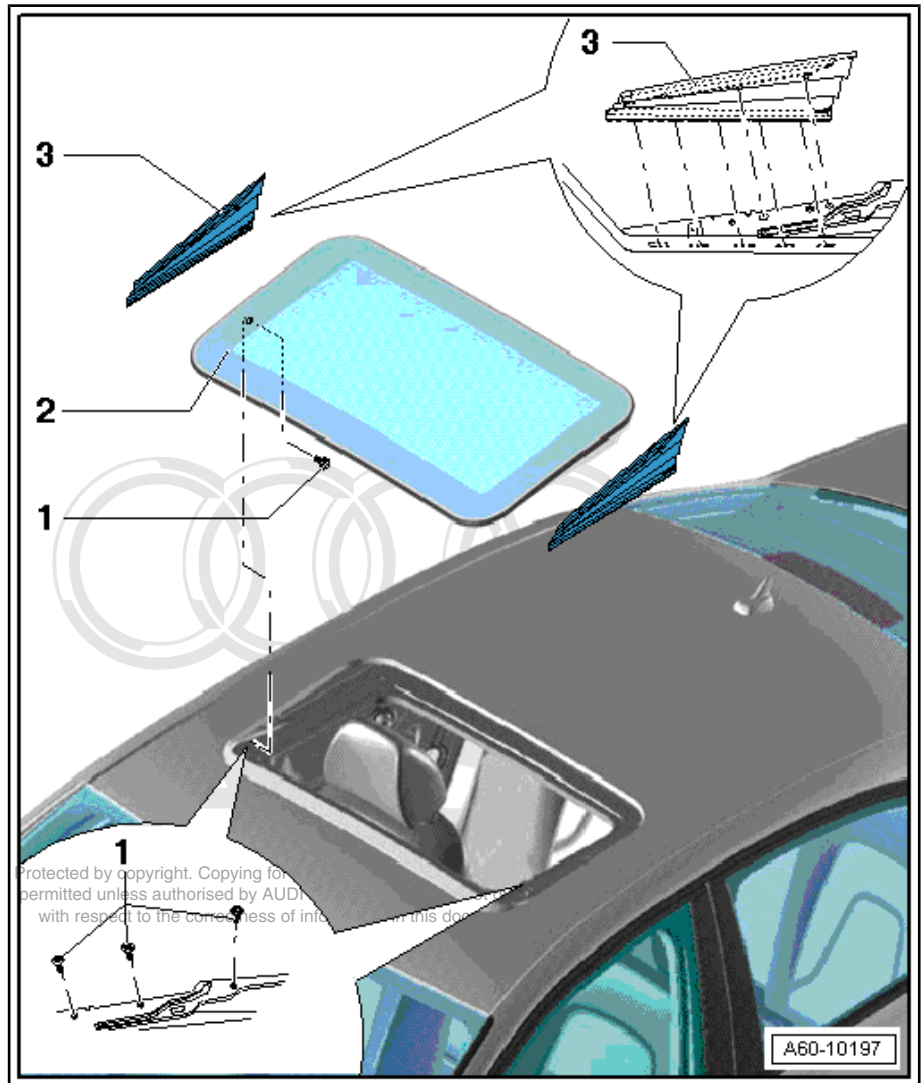
- ☐ 4 Nm

2 - Sunroof panel

- ☐ Removing ⇒ [page 126](#)

3 - Bellows

- ☐ Pull out of panel and frame from side



Sunroof panel

1 - Sliding headliner

- ☐ Only on vehicles with glass roof
- ☐ Before removing, detach sunroof panel.
- ☐ Removing ⇒ [page 128](#)

2 - Spring for sliding headliner (right-side)

- ☐ Before removing, detach trim frame for moulded headliner ⇒ General body repairs, interior; Rep. gr. 70 ; Roof trim; Exploded view - moulded headliner .
- ☐ To remove, unscrew bolt -7- (front and rear).
- ☐ Push front spring -2- forwards / rear spring backwards off sliding headliner and take out springs.
- ☐ Pull sliding headliner sideways out of guide rail on opposite side and lift out.

3 - Bolt

- ☐ 1.5 Nm

4 - Seal

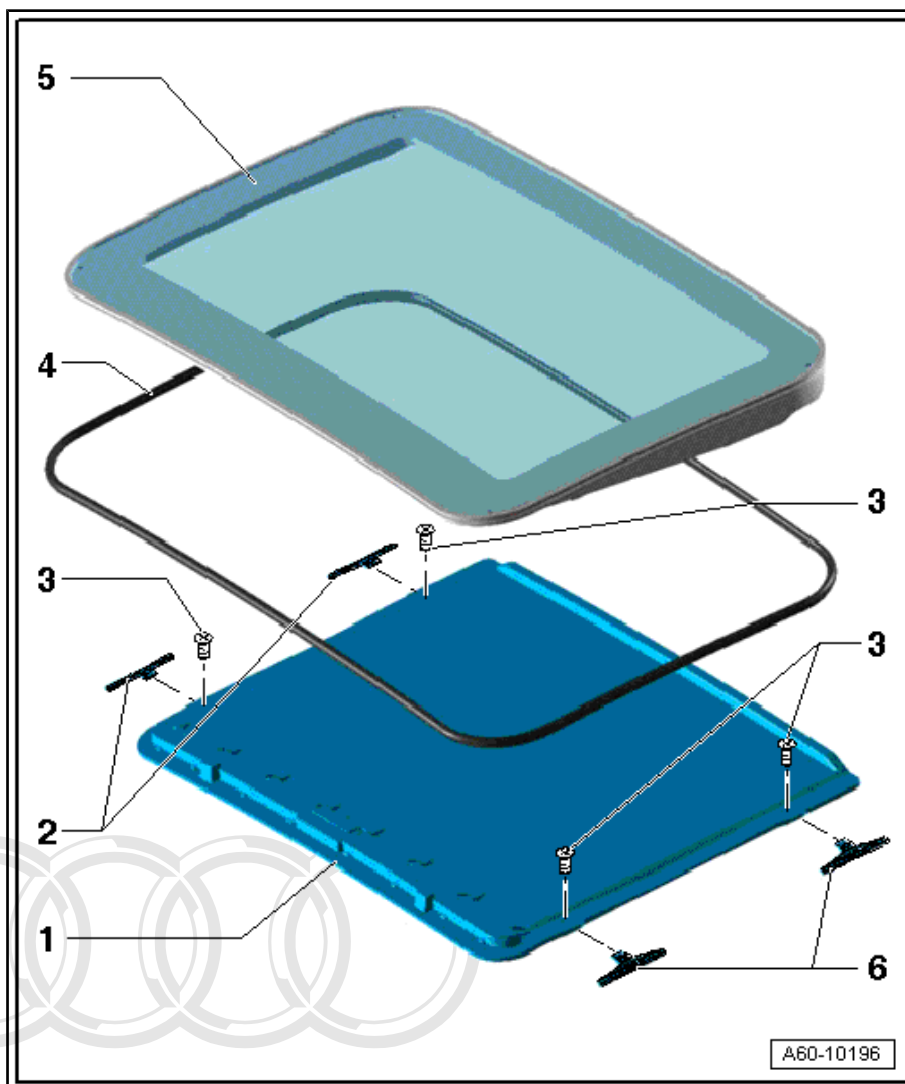
- ☐ Renewing ⇒ [page 127](#)

5 - Sunroof panel

- ☐ To remove, tilt sunroof panel.
- ☐ Bellows removed ⇒ [page 124](#)
- ☐ Unscrew bolts (left and right) from sunroof panel and lift out panel.
- ☐ Adjusting ⇒ [page 127](#)

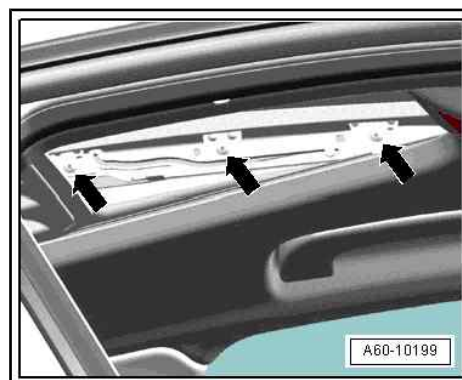
6 - Spring for sliding headliner (left-side)

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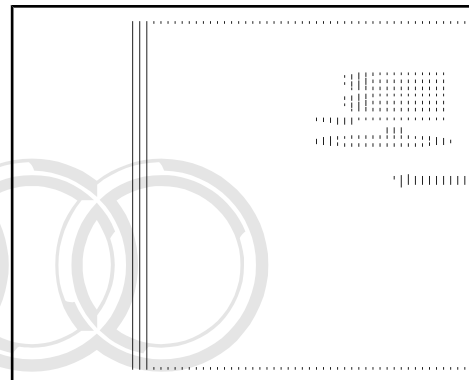
1.2 Removing and installing sunroof panel

- Take bellows out of roof panel and frame to side.
- Unscrew bolts -arrows- on both sides and lift out roof panel.



1.3 Adjusting sunroof panel

- To avoid wind noise, adjust the height of the sunroof panel at the front and rear as shown in illustration.
- Check the height adjustment at the points where the rounded corners merge with the straight parts of the roof cut-out at the front and back.
- The sunroof panel should not be higher than the roof at any point at the front or lower than the roof at any point at the rear.
- For height adjustment, always close sunroof from open (non-tilted) position.



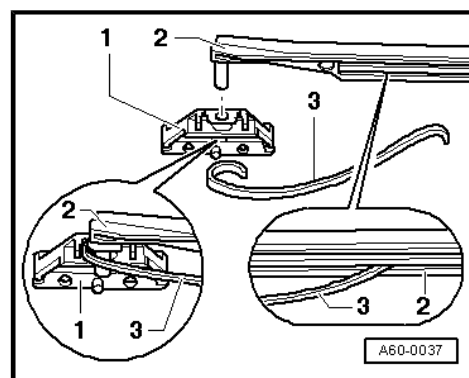
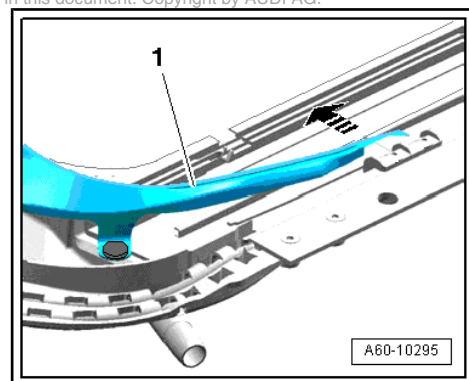
1.4 Removing and installing wind deflector

Removing:

- Open sliding sunroof fully.
- Press wind deflector down at front and pull arms of wind deflector out of mounting towards centre of vehicle.
- Take wind deflector -1- out of sunroof opening diagonally towards rear.
- Install in reverse order of removal.

Spring for wind deflector

- Place spring -3- in bracket -1- for wind deflector.
- Insert spring in outer groove of wind deflector -2-.



1.5 Removing and installing sunroof seals

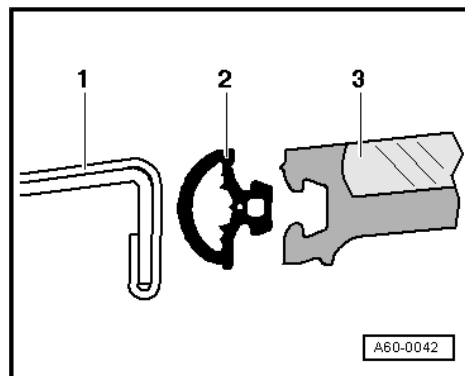
- Sunroof panel -3- removed
- Pull seal -2- out of sunroof panel -3-.

- Starting in centre, press new seal into sunroof panel -3- at rear edge of panel.



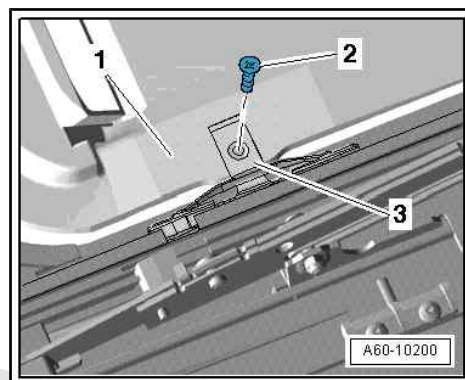
Note

To make it easier to install the seal, coat edge of panel with soap solution.

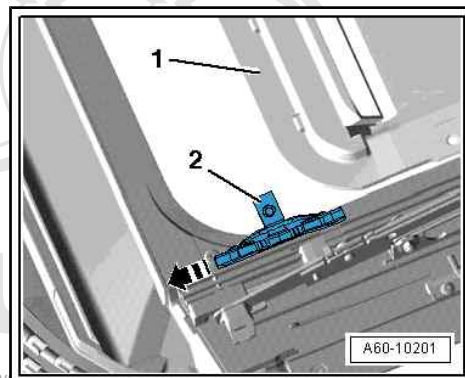


1.6 Removing and installing sun blind

- Sunroof panel removed
- Unscrew bolt -2- for spring -3-.



- Slide headliner -1- back slightly and pull front spring out towards front.
- Press out rear spring towards rear.
- Lift out headliner.



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1.7 Adapting sliding sunroof adjustment control unit - J245-



Note

After a motor has been removed and re-installed or renewed, the motor must be adapted so that the sliding/tilting sunroof can operate properly.

Sunroof motor

- Switch on ignition and, if open, close doors and sunroof.
- Pull operating switch for sliding/tilting sunroof and hold in this position for 10 seconds.
- The sunroof panel will move to the tilted position, then it will run to the fully open position; subsequently it will return to the front tilted position and finally move back to the closed position.

- ◆ During the entire adaption process the operating switch for the sliding/tilting sunroof must be kept pulled.
- ◆ The adaption has now been completed.

Motor for sun blind

- Switch on ignition and, if open, close doors and sun blind.
- Press operating switch for sun blind into closed position and hold for 10 seconds.
- The sun blind will open as far as stop and then close again.
- ◆ During the entire adaption process the operating switch for the sun blind must be kept pressed.
- ◆ The adaption has now been completed.



Note

If new replacement motors have been installed, the adaption begins immediately after the operating switch is pressed/pulled (not after 10 seconds).

1.8 Checking and adjusting zero position for cables (slotted guide)

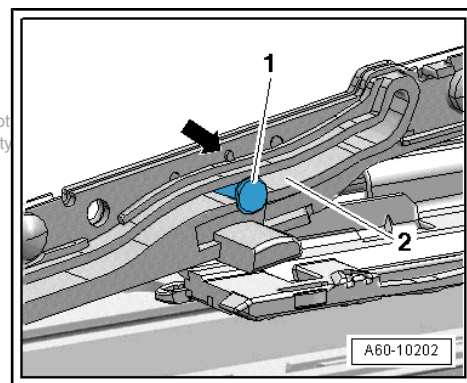
Checking

Zero position can be checked with sunroof panel fitted.

- Bellows removed
- Retract sunroof panel and close again.
- On vehicles with glass panel, push back sliding headliner as far as it will go.
- Close sunroof.
- If zero position is correct, guide pin -1- in tilt arm must be centrally aligned with marking -arrow- on slotted guide -2-.

Adjusting

- ~~Sliding/tilting sunroof motor removed~~
- Sunroof panel removed
- Slide slotted guide on both sides into zero position by hand (as shown).
- Adjust motor to zero position and install.



1.9 Adjusting zero position for sliding sunroof adjustment control unit - J245- (motor)

- Motor removed, electrical connections plugged in.
- Move rotary control to “roof closed” position.
- Motor automatically runs to zero position and is switched off.
- Install motor in this position with sunroof closed.

2 Water drain hoses

⇒ "2.1 Overview - water drain hoses", page 130

⇒ "2.2 Cleaning water drain hoses", page 130

⇒ "2.3 Removing and installing water drain hoses", page 131

2.1 Overview - water drain hoses

1 - Water drain hose (front)

- ❑ Water drain hoses (front) are routed along A-pillars and end behind door at bottom of A-pillar.

2 - Sunroof frame

3 - Water drain hose (rear)

- ❑ Water drain hoses (rear) are routed along D-pillars and end in wheel housing above wheel housing liner.
- ❑ Clean from bottom end of hose.
- ❑ To do so, you must first remove wheel housing liner (rear).

4 - Clip for D-pillar

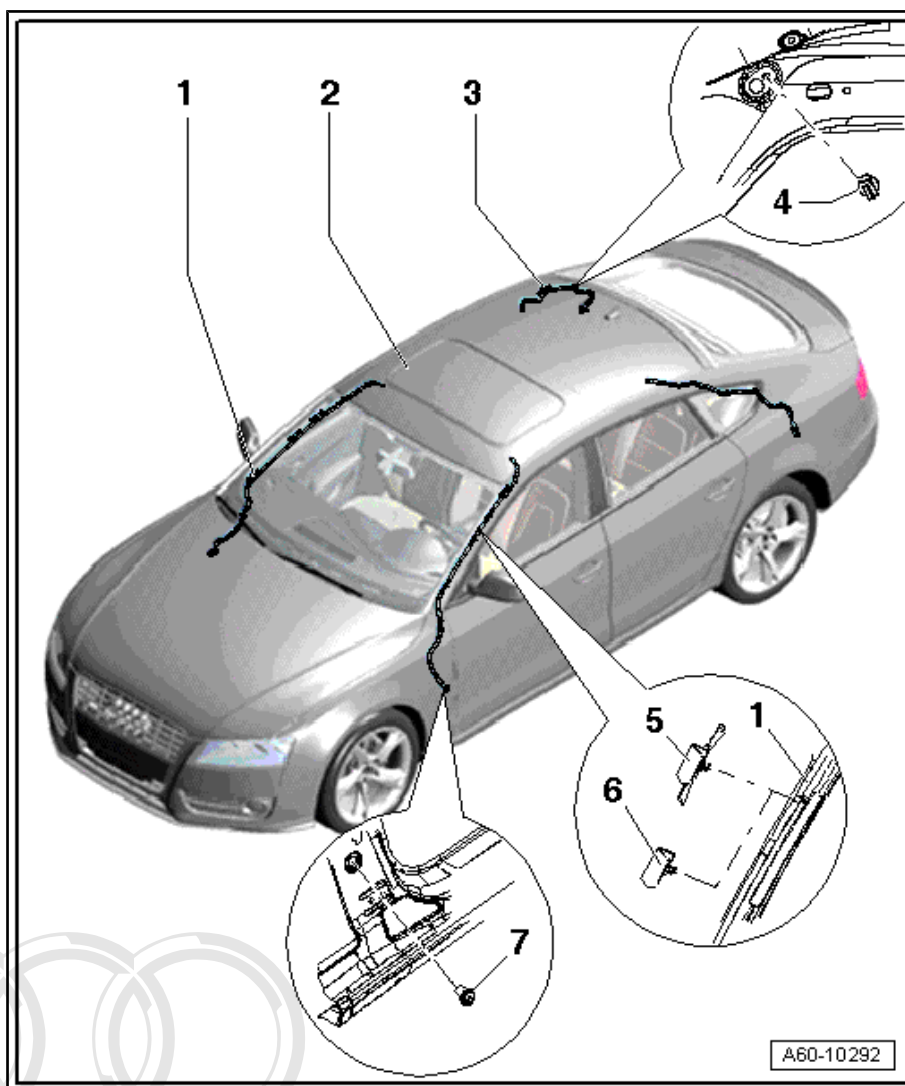
- ❑ Different versions

5 - Bracket

6 - Clip for A-pillar

7 - Grommet

- When installing, must be pressed fully into A-pillar



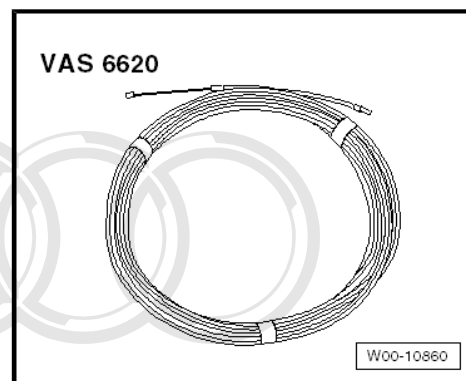
A60-10292

2.2 Cleaning water drain hoses

Special tools and workshop equipment required

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- ◆ Cleaning and insertion aid - VAS 6620-



Note

- ◆ *Use to clean water drain hoses.*

- ◆ *Insert cleaning and insertion aid - VAS 6620 - in water drain hose to unblock it.*

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2.3 Removing and installing water drain hoses

Water drain hose (front) ⇒ [page 131](#)

Water drain hose (rear) ⇒ [page 131](#)

Water drain hose (front)

- Water drain hoses (front) are routed along A-pillars and end behind door at bottom of A-pillar.
- Remove A-pillar trim (top) ⇒ General body repairs, interior; Rep. gr. 70 ; Passenger compartment trim panels; Removing and installing A-pillar trim .
- Remove sun visors and grab handles (front) ⇒ General body repairs, interior; Rep. gr. 68 ; Equipment .
- Detach water drain hose (top) at connection on sunroof frame and unclip it from mountings along A-pillar and between dash panel and A-pillar.
- Unfasten grommet on water drain hose on outer A-pillar and pull it out.
- Install in reverse order of removal.

Water drain hose (rear)

Water drain hoses (rear) are routed along D-pillars and end in wheel housing above wheel housing liner.

Remove wheel housing liner (rear).

- Remove luggage compartment side trim ⇒ General body repairs, interior; Rep. gr. 70 ; Luggage compartment trim panels; Removing and installing luggage compartment side trim .
- Remove D-pillar trim (top) ⇒ General body repairs, interior; Rep. gr. 70 ; Passenger compartment trim panels; Removing and installing D-pillar trim .
- Remove grab handles (rear) (⇒ General body repairs, interior; Rep. gr. 68 ; Equipment; Removing and installing roof grab handle) and lower headliner in area of water drain hoses.



- Detach water drain hose (top) at connection on sunroof frame and unclip it from mountings along D-pillar.
- Unfasten water drain hose from wheel housing and pull outwards.
- Install in reverse order of removal.



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63 – Bumpers

1 Bumper (front)

- ⇒ [“1.1 Exploded view - bumper cover”, page 133](#)
- ⇒ [“1.2 Exploded view - impact bar”, page 136](#)
- ⇒ [“1.3 Removing and installing lock carrier cover”, page 137](#)
- ⇒ [“1.4 Removing and installing bumper cover”, page 137](#)
- ⇒ [“1.5 Gap widths at bumper cover”, page 138](#)
- ⇒ [“1.6 Adjusting bumper cover”, page 139](#)
- ⇒ [“1.7 Removing and installing guides for bumper”, page 139](#)
- ⇒ [“1.8 Removing and installing air intake grille”, page 139](#)
- ⇒ [“1.9 Removing and installing attachments”, page 140](#)
- ⇒ [“1.10 Removing and installing impact absorber”, page 141](#)
- ⇒ [“1.11 Removing and installing impact bar”, page 141](#)
- ⇒ [“1.12 Removing and installing mounting for impact bar”, page 142](#)

1.1 Exploded view - bumper cover

- ⇒ [“1.1.1 Exploded view - bumper cover, all vehicles except Audi S5”, page 133](#)
- ⇒ [“1.1.2 Exploded view - bumper cover, Audi S5”, page 135](#)

1.1.1 Exploded view - bumper cover, all vehicles except Audi S5

1 - Bolt

- 3 Nm

2 - Bolt

- 1.5 Nm

3 - Closure plate for bumper cover

- Removing and installing
⇒ [page 140](#)

4 - Cover

- For towing hook

5 - Bumper cover

- Removing and installing
⇒ [page 137](#)

6 - Front right parking aid sender - G252-

- Removing and installing
⇒ Electrical system;
Rep. gr. 94 ; Parking aid;
Removing and installing front parking aid senders

7 - Radiator grille

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

8 - Bolt

- Tightening torque
⇒ [Item 7 \(page 191\)](#)

9 - Lock carrier cover

- Removing and installing
⇒ [page 137](#)

10 - Spreader rivet

- When removing, unscrew locking pin.
- When installing, only press in locking pin.

11 - Impact absorber

- Removing and installing ⇒ [page 141](#)

12 - Front left parking aid sender - G255-

- Removing and installing ⇒ Electrical system; Rep. gr. 94 ; Parking aid; Removing and installing front parking aid senders

13 - Bumper cover mounting (front)

- Removing and installing ⇒ [page 139](#)

14 - Bolt

- 4 Nm

15 - Nut

- 4 Nm

16 - Fog light

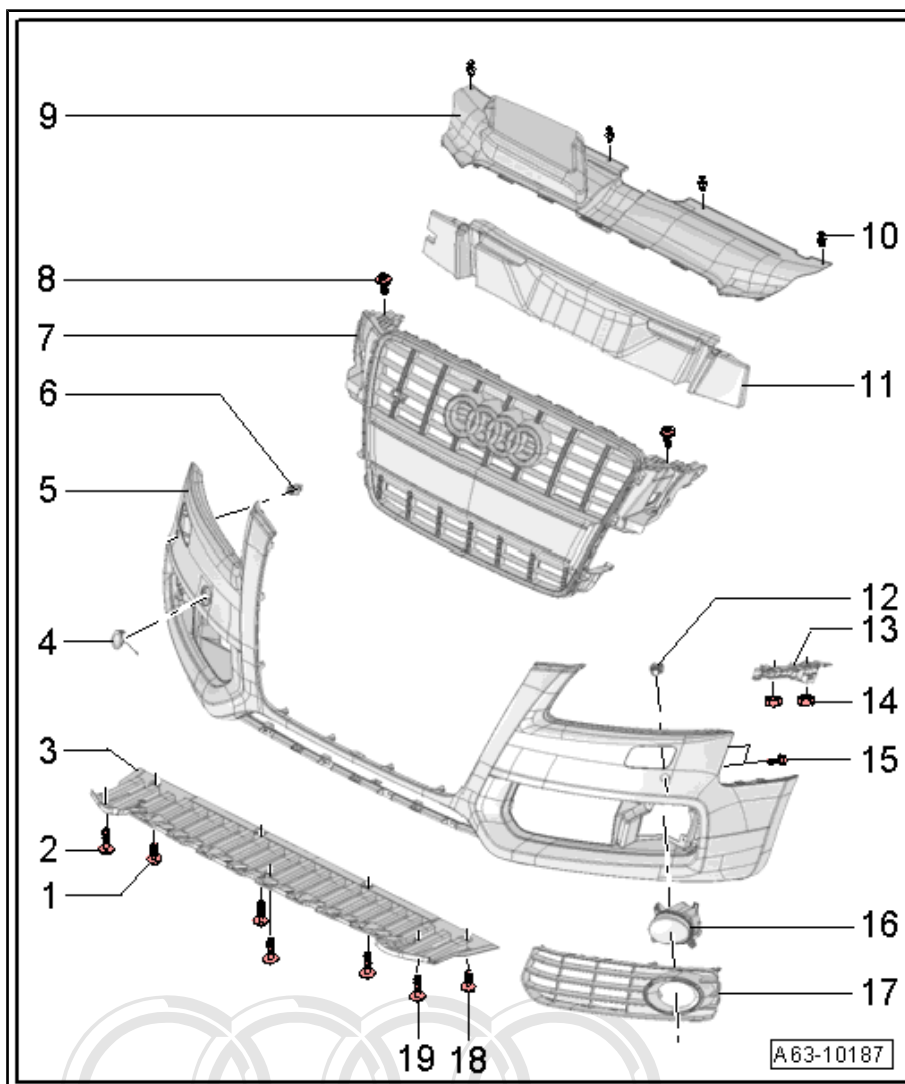
- Removing and installing ⇒ Electrical system; Rep. gr. 94 ; Fog lights; Removing and installing fog lights

17 - Air intake grille

- Removing and installing ⇒ [page 139](#)

18 - Bolt

- 3 Nm

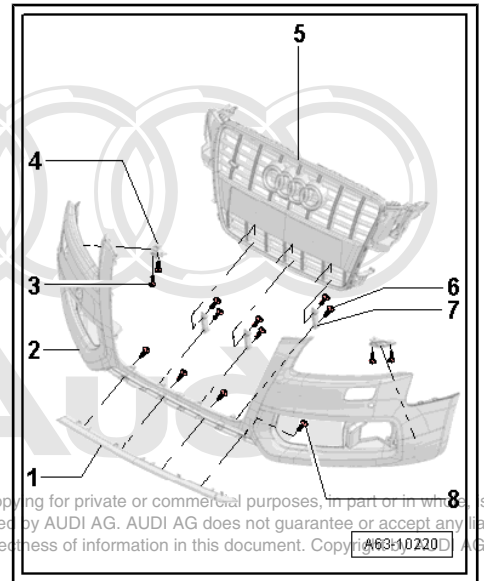


19 - Bolt

- 1.5 Nm

1.1.2 Exploded view - bumper cover, Audi S5

- 1 - Removing and installing trim strip ⇒ [page 140](#)
- 2 - Bumper cover
- 3 - Bolts, 1.5 Nm
- 4 - Bracket for noise insulation (front)
- 5 - Radiator grille
- 6 - Bolts, 1.5 Nm
- 7 - Reinforcement strut
- 8 - Bolt, 1.5 Nm



1.2 Exploded view - impact bar

1 - Impact bar

- ☐ Removing and installing
⇒ [page 141](#)

2 - Bass horn - H7-

- ☐ Removing and installing
⇒ **Electrical system**;
Rep. gr. 90 ; Horn; Re-
moving and installing
treble horn - H2- / bass
horn - H7-

3 - Spacer (right-side)

- ☐ For bumper cover

4 - Mounting (right-side) for im- pact bar

- ☐ Removing and installing
⇒ [page 142](#)

5 - Treble horn - H2-

- ☐ Removing and installing
⇒ **Electrical system**;
Rep. gr. 90 ; Horn; Re-
moving and installing
treble horn - H2- / bass
horn - H7-

6 - Bolt

- ☐ 30 Nm

7 - Spacer (left-side)

- ☐ For bumper cover

8 - Bolt

- ☐ For attachment to lock
carrier
- ☐ 4 Nm

9 - Bolt

- ☐ 30 Nm

10 - Mounting (left-side) for impact bar

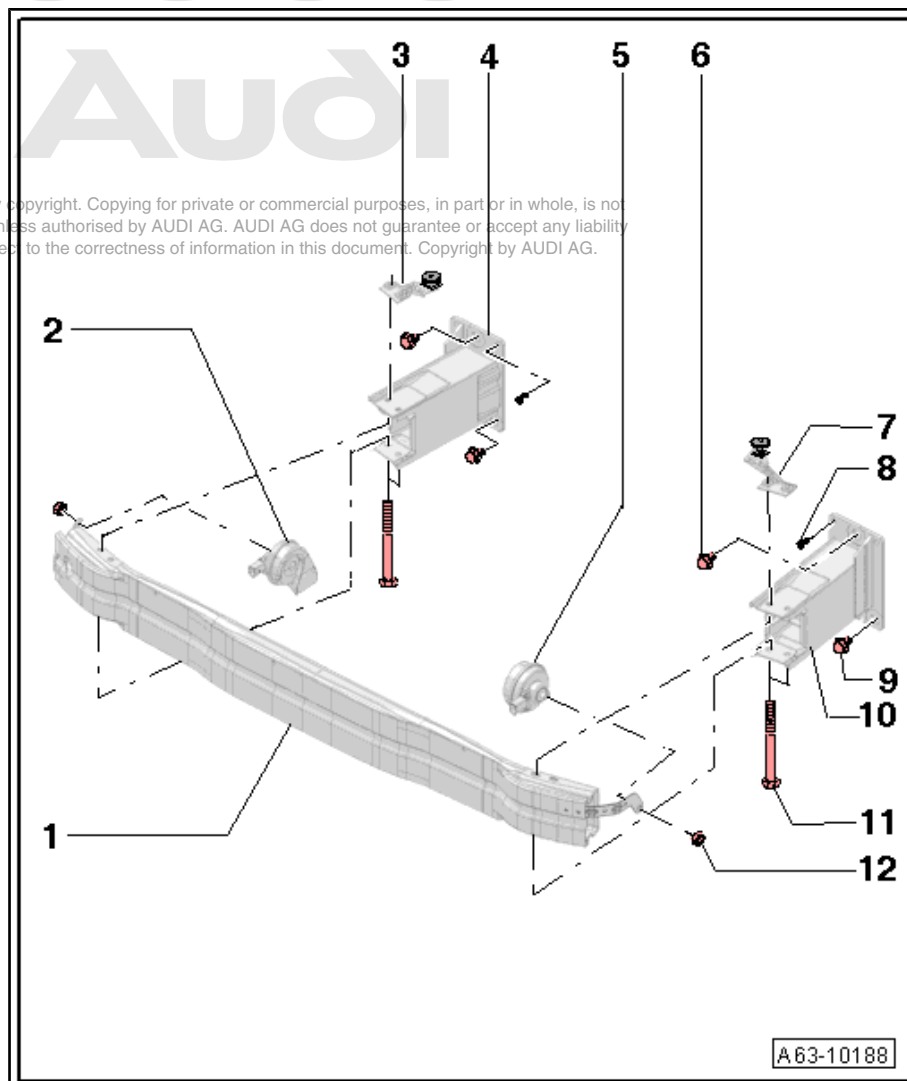
- ☐ Removing and installing ⇒ [page 142](#)

11 - Bolt

- ☐ 20 Nm

12 - Nut

- ☐ Tightening torque ⇒ **Electrical system**; Rep. gr. 90 ; Horn; Exploded view - horn



1.3 Removing and installing lock carrier cover

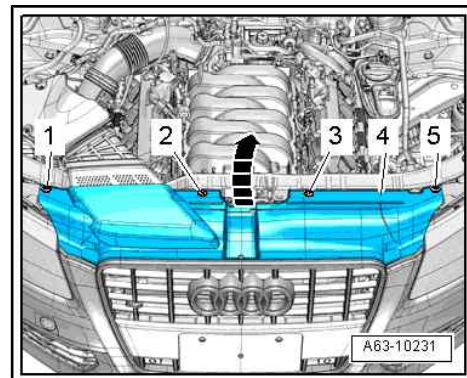
Removing

- Unscrew bolts -1, 2, 3, 5- for fasteners.
- Raise lock carrier cover -4- -arrow- and detach from radiator grille.

Installing

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

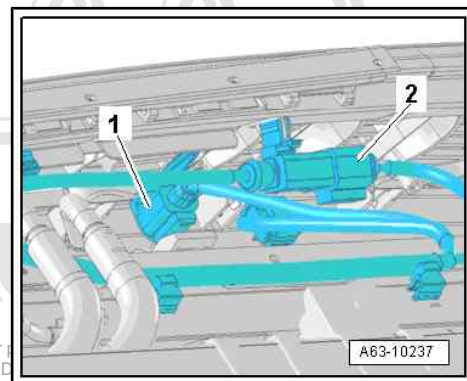
- Slide lock carrier cover with guides into mountings on radiator grille and bumper cover.
- Insert fasteners and press in bolts as far as stop.



1.4 Removing and installing bumper cover

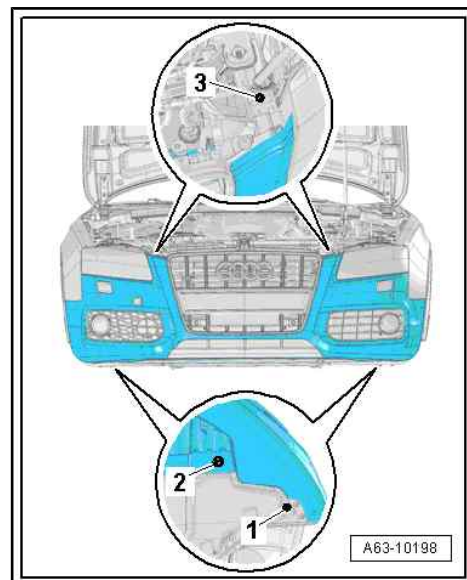
Removing

- Remove lock carrier cover ⇒ [page 137](#) .
- Unplug electrical connector -2- for ambient temperature sensor - G17- and electrical connector -1- for front parking aid senders.



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- Remove bolt -3-.
- Unscrew bolt -2- and remove quick-release fastener -1- on noise insulation at bumper cover (front).



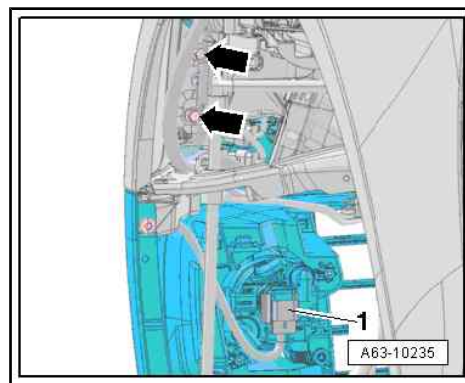
- Remove wheel housing liner ⇒ [page 215](#) .
- Unplug electrical connector -1- for fog light.
- Remove bolts -arrows-.
- Detach side sections from side panel (front) and detach bumper cover towards the front.

Installing

- Gap widths ⇒ [page 138](#)
- Tightening torques ⇒ [page 133](#) .

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

- Install wheel housing liner ⇒ [page 215](#) .
- Install lock carrier cover ⇒ [page 137](#) .



1.5 Gap widths at bumper cover

A - Bonnet to radiator grille

- Gap width = 4.5 ± 0.8 mm
- Adjusting ⇒ [page 139](#)

B - Bonnet to bumper cover (front)

- Gap width = 4.5 mm
- Adjusting ⇒ [page 139](#)

C - Radius: bumper cover (front) to headlight

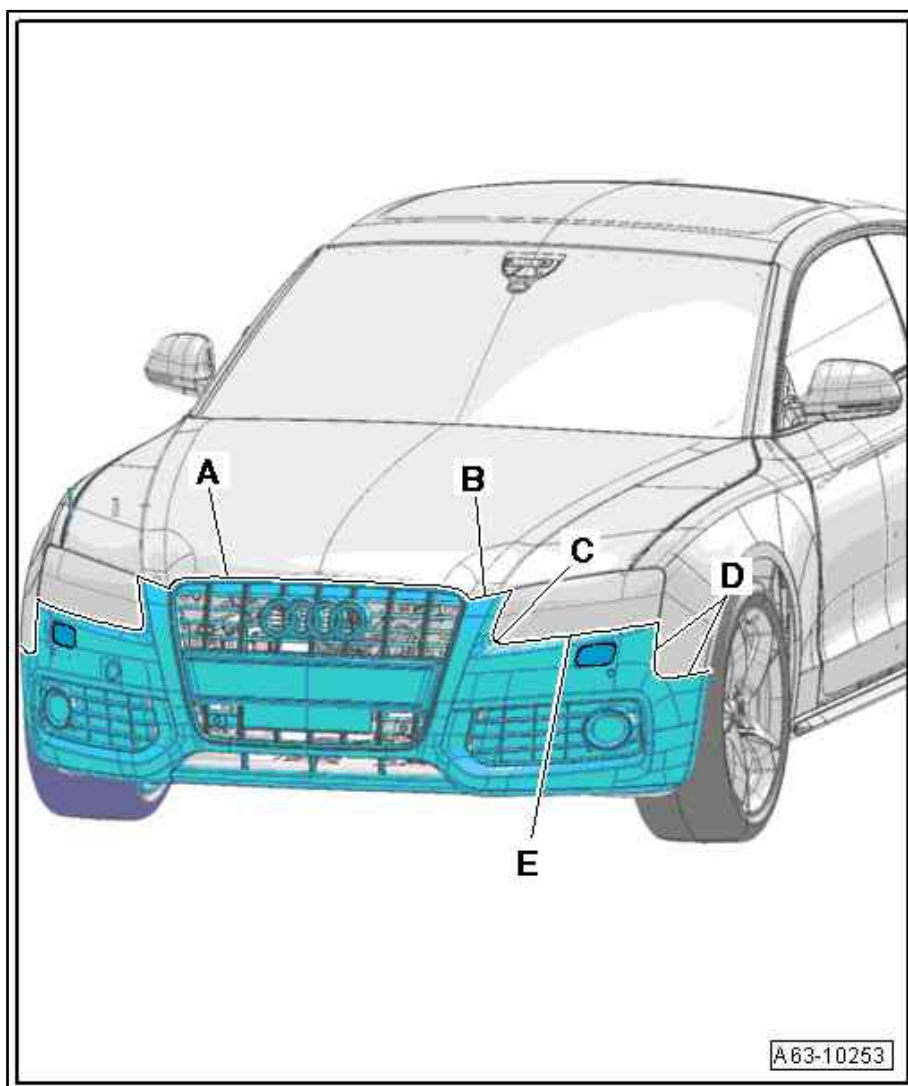
- Gap width = 1.9 mm

D - Bumper cover (front) to side panel (front)

- Zero-gap panel joint

E - Bumper cover (front) to headlight

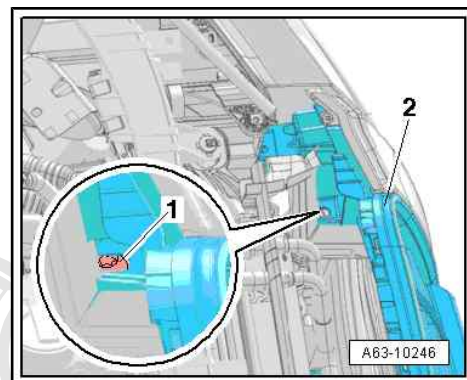
- Gap width = 2.1 mm



1.6 Adjusting bumper cover

Procedure

- Remove lock carrier cover ➔ [page 137](#) .
- If gap is not even, apply a spanner to adjuster screw -1- and adjust gap for the bumper cover (front) -2-.
- Check gap width again and repeat adjustment if necessary.



1.7 Removing and installing guides for bumper

Removing

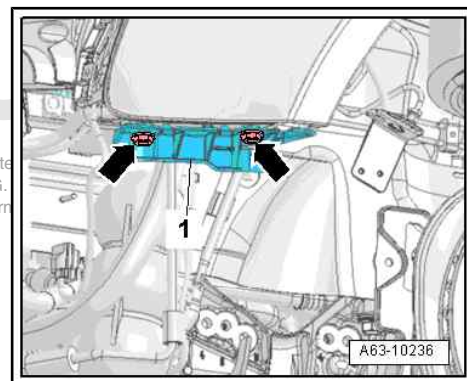
- Remove bumper cover (front) ➔ [page 137](#) .
- Unscrew nuts -arrows- and detach bumper cover mounting (front) -1-.

Installing

- Gap widths ➔ [page 138](#)
- Tightening torques ➔ [page 133](#) .

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

- Install bumper cover (front) ➔ [page 137](#) .



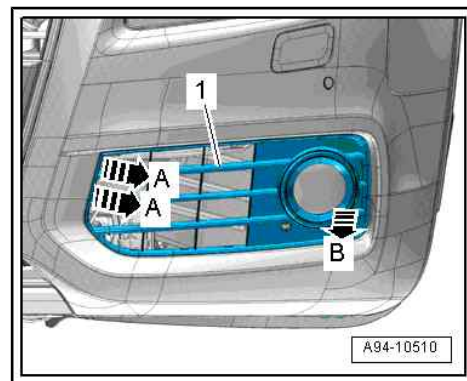
1.8 Removing and installing air intake grille

Removing

- Release retaining hooks -arrows A- using a screwdriver.
- Detach air intake grille -1- from bottom section of bumper cover -arrow B-.

Installing

Install in reverse sequence.



1.9 Removing and installing attachments

Closure plate for bumper cover ⇒ [page 140](#)

Trim strip ⇒ [page 140](#)

Cover for headlight washer jet ⇒ [page 140](#)

Closure plate for bumper cover

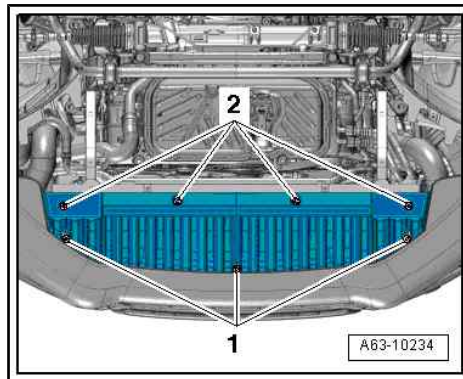
Removing

- Remove bolts -1- and -2-.
- Detach closure plate for bumper cover (front) towards rear (as seen in direction of travel).

Installing

- Tightening torques ⇒ [page 133](#) .

Install in reverse sequence.



Trim strip

Removing

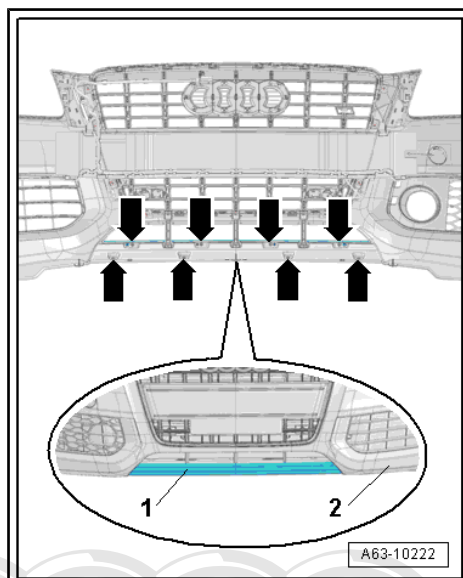
- Remove closure plate for bumper cover (front) ⇒ [page 140](#) .
- Remove bolts -arrows-.
- Detach trim strip -1- from bumper cover -2- towards front.

Installing

- Tightening torques ⇒ [page 135](#) .

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

- Install closure plate for bumper cover (front) ⇒ [page 140](#) .



Cover for headlight washer jet

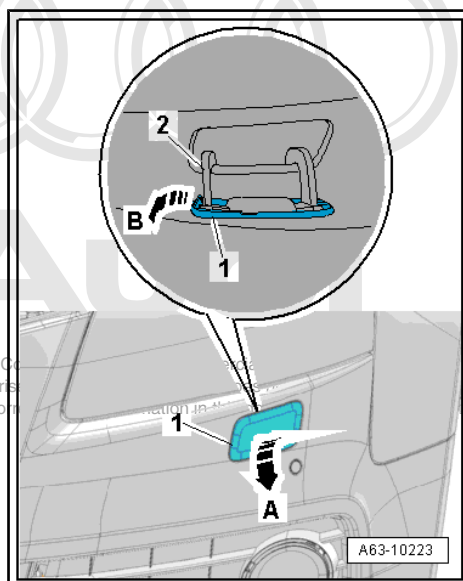
Removing

- Open cover -1- for washer jet -arrow A-.
- Using a screwdriver, lever washer jet cover -1- off mounting -2- -arrow B- on inside and disengage it on opposite side.

Installing

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

- Press on washer jet cover until it engages audibly.



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1.10 Removing and installing impact absorber

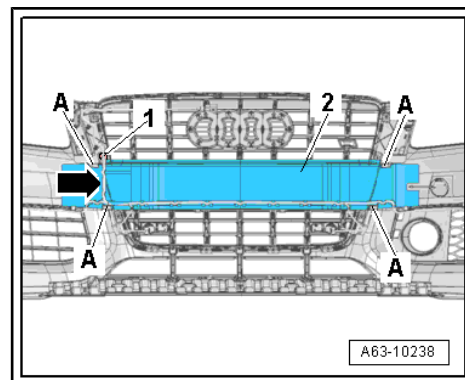
Removing

- Remove bumper cover (front) ➤ [page 137](#) .
- If fitted, move clear electrical wiring harness -1- for front parking aid senders -arrow-.
- Guide impact absorber -2- out of retainers -A- and detach.

Installing

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

- Install bumper cover (front) ➤ [page 137](#) .



1.11 Removing and installing impact bar

Removing



Note

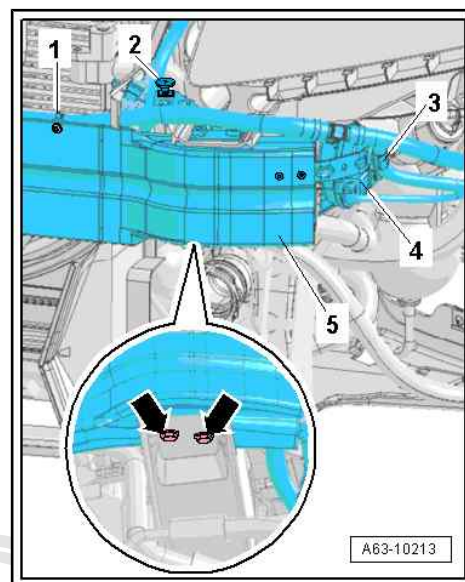
Re-attach all cable ties at the same locations when re-installing.

- Remove bumper cover (front) ➤ [page 137](#) .
- Unplug electrical connector -4- at horns and move clear electrical wiring harness -3- at horn bracket.
- Move clear washer hose for washer jet by cutting cable tie -1-.
- Unscrew bolts -arrows- and detach spacer -2- for bumper cover.
- Take impact bar -5- out of mountings.



Note

If impact bar cannot be removed from mountings easily, it must be levered out.



Installing

- Tightening torque ➤ [page 136](#)

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

- Install bumper cover (front) ➤ [page 137](#) .

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1.12 Removing and installing mounting for impact bar

Mounting (left-side) ⇒ [page 142](#)

Mounting (right-side) ⇒ [page 142](#)

Mounting (left-side)

Removing

- Remove bumper cover (front) ⇒ [page 137](#) .
- Remove impact bar ⇒ [page 141](#) .
- Remove headlight washer jet ⇒ Electrical system; Rep. gr. 92 ; Headlight washer system; Removing and installing washer jets .
- Mark installation position of mounting relative to lock carrier (for reinstallation).
- Remove bolts -arrows-.
- Unscrew securing bolt -1-.
- Swivel mounting -2- for impact bar on lock carrier outwards and detach it.

Installing

- Tightening torque ⇒ [page 136](#)

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

- Bolt on mounting for impact bar according to mark made during removal.
- Install headlight washer jet ⇒ Electrical system; Rep. gr. 92 ; Headlight washer system; Removing and installing washer jets .
- Install impact bar ⇒ [page 141](#) .
- Install bumper cover (front) ⇒ [page 137](#) .

Mounting (right-side)

Removing

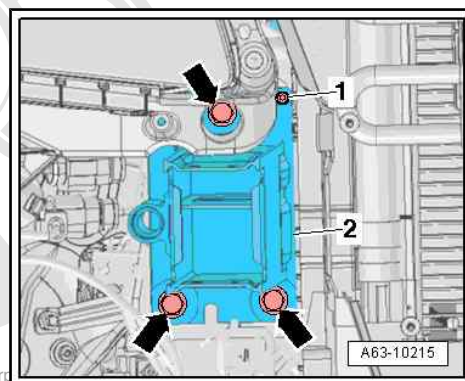
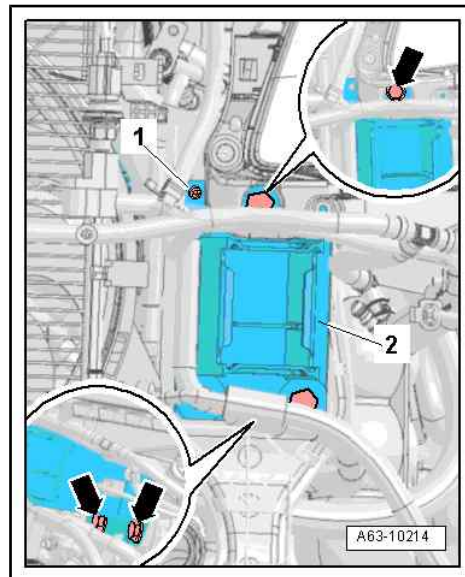
- Remove bumper cover (front) ⇒ [page 137](#) .
- Remove impact bar ⇒ [page 141](#) .
- Mark installation position of mounting relative to lock carrier (for reinstallation).
- Remove bolts -arrows-.
- Unscrew securing bolt -1-.
- Detach mounting -2- for impact bar from lock carrier.

Installing

- Tightening torque ⇒ [page 136](#)

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

- Bolt on mounting for impact bar according to mark made during removal.
- Install impact bar ⇒ [page 141](#).
- Install bumper cover (front) ⇒ [page 137](#).



2 Bumper (rear)

- ⇒ ["2.1 Exploded view - bumper cover", page 143](#)
- ⇒ ["2.2 Exploded view - impact bar", page 145](#)
- ⇒ ["2.3 Removing and installing bumper cover", page 146](#)
- ⇒ ["2.4 Gap widths at bumper cover", page 147](#)
- ⇒ ["2.5 Removing and installing guides for bumper", page 148](#)
- ⇒ ["2.6 Removing and installing attachments", page 149](#)
- ⇒ ["2.7 Removing and installing impact bar", page 150](#)
- ⇒ ["2.8 Removing and installing mounting for impact bar", page 151](#)

2.1 Exploded view - bumper cover

1 - Trim strip

- ☐ Only on Audi S5
- ☐ Removing and installing
⇒ [page 150](#)

2 - Bolt

- ☐ 9x
- ☐ 1.5 Nm

3 - Bumper cover (bottom section)

- ☐ Removing and installing
⇒ [page 149](#)

4 - Bolt

- ☐ 2x
- ☐ 1.5 Nm

5 - Bumper cover (rear)

- ☐ Removing and installing
⇒ [page 146](#)

6 - Rear left parking aid sender - G203-

- ☐ Removing and installing
⇒ Electrical system;
Rep. gr. 94 ; Parking
aid; Removing and in-
stalling rear parking aid
senders

7 - Bolt

- ☐ 3x
- ☐ Tightening sequence
⇒ [page 144](#)

8 - Mounting (side)

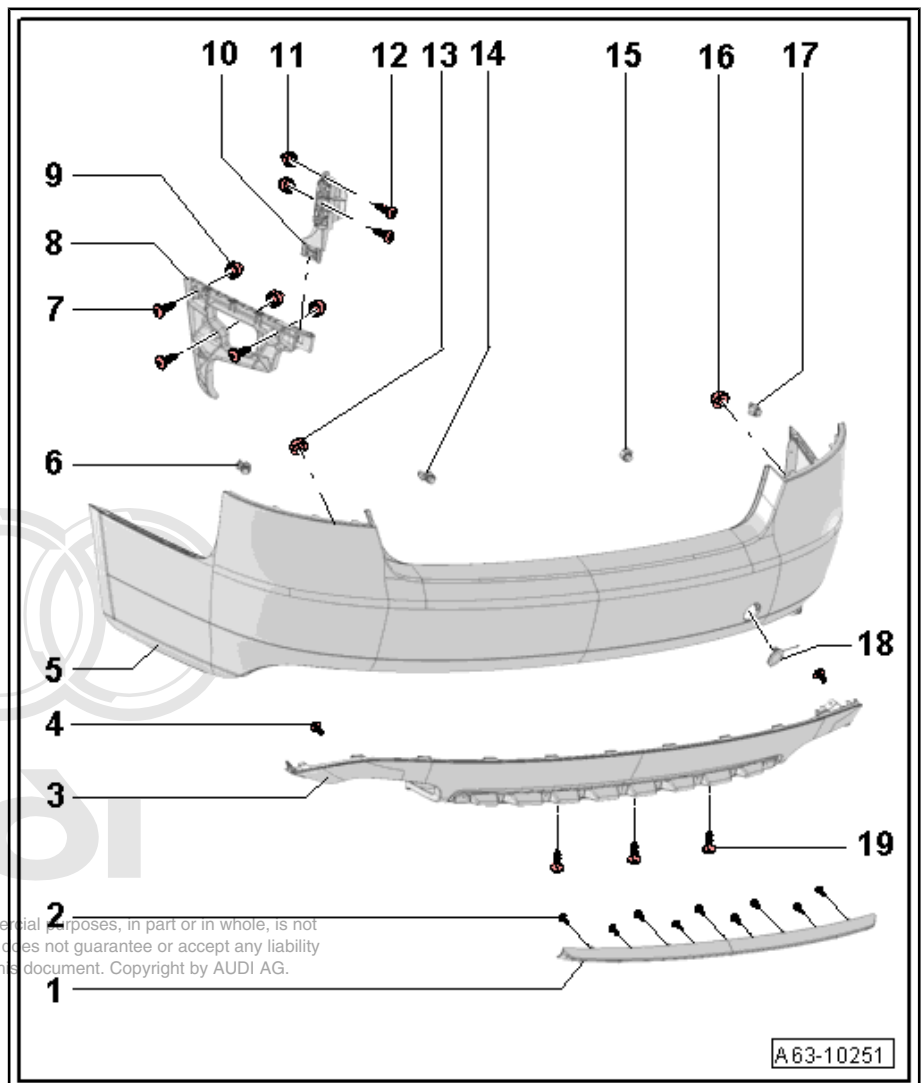
- ☐ For bumper cover
- ☐ Removing and installing ⇒ [page 148](#)

9 - Clip nut

- ☐ 3x

10 - Bumper cover lock

- ☐ Tightening torque for tensioning bolt: 2.5 Nm



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- ☐ Removing and installing ⇒ [page 149](#)

11 - Clip nut

- ☐ 2x

12 - Bolt

- ☐ 2x
- ☐ Tightening sequence ⇒ [page 144](#)

13 - Nut

- ☐ 4 Nm

14 - Rear centre left parking aid sender - G204-

- ☐ Removing and installing ⇒ Electrical system; Rep. gr. 94 ; Parking aid; Removing and installing rear parking aid senders

15 - Rear centre right parking aid sender - G205-

- ☐ Removing and installing ⇒ Electrical system; Rep. gr. 94 ; Parking aid; Removing and installing rear parking aid senders

16 - Nut

- ☐ 4 Nm

17 - Rear right parking aid sender - G206-

- ☐ Removing and installing ⇒ Electrical system; Rep. gr. 94 ; Parking aid; Removing and installing rear parking aid senders

18 - Cap

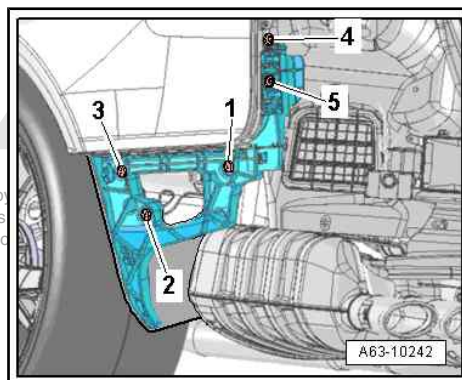
- ☐ For towing eye

19 - Bolt

- ☐ 3x
- ☐ 1.5 Nm

Mounting (side) and bumper cover lock - tightening torque and sequence

- Tighten bolts to 1.5 Nm in sequence -1 ... 5-

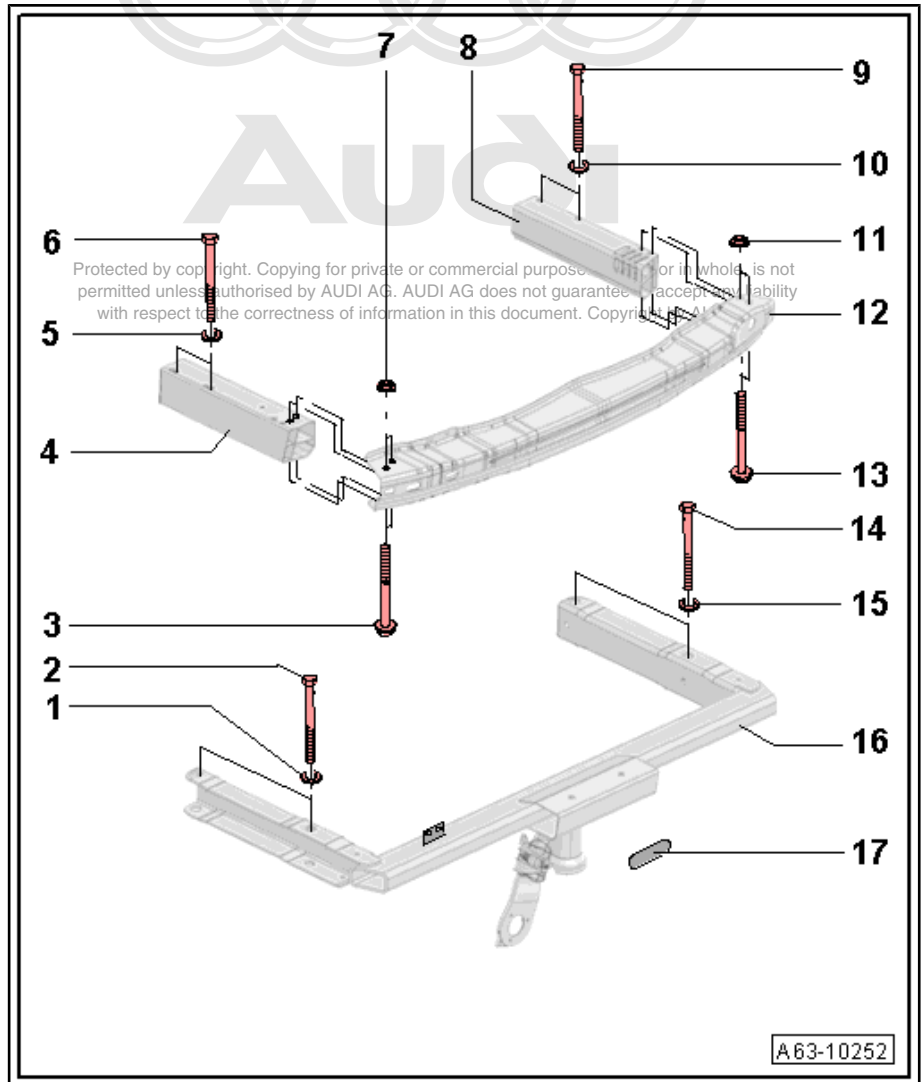


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2.2 Exploded view - impact bar

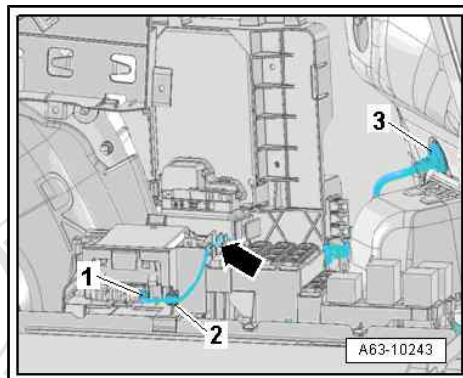
- 1 - Washer
- 2 - Bolt
 - ☐ 57 Nm
- 3 - Bolt
- 4 - Mounting (left-side) for impact bar
 - ☐ For vehicles without towing bracket
 - ☐ Removing and installing ⇒ [page 151](#)
- 5 - Washer
- 6 - Bolt
 - ☐ 57 Nm
- 7 - Nut
 - ☐ 17 Nm
- 8 - Mounting (right-side) for impact bar
 - ☐ For vehicles without towing bracket
 - ☐ Removing and installing ⇒ [page 151](#)
- 9 - Bolt
 - ☐ 57 Nm
- 10 - Washer
- 11 - Nut
 - ☐ 17 Nm
- 12 - Impact bar
 - ☐ For vehicles without towing bracket
 - ☐ Removing and installing ⇒ [page 150](#)
- 13 - Bolt
- 14 - Bolt
 - ☐ 57 Nm
- 15 - Washer
- 16 - Impact bar
 - ☐ For vehicles with towing bracket
 - ☐ Removing and installing ⇒ [page 150](#)
- 17 - Type plate



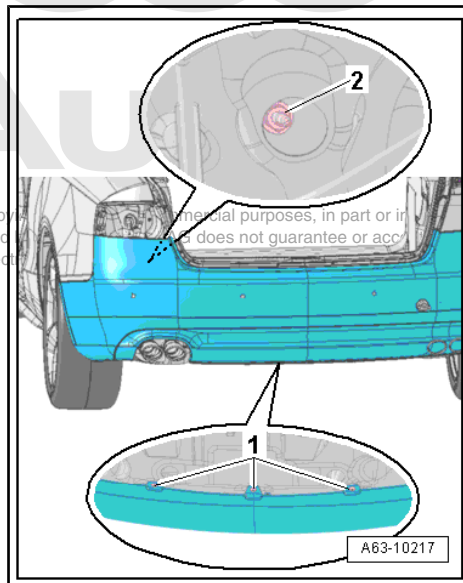
2.3 Removing and installing bumper cover

Removing

- Remove tail lights ⇒ Electrical system; Rep. gr. 94 ; Tail light cluster; Removing and installing tail light cluster .
- If fitted, unplug electrical connector -1- at parking aid control unit - J446- .
- Move clear electrical wiring harness at control unit bracket -arrow- by cutting cable tie -2-.
- Push grommet -3- through to the outside.



- Remove nut -2-.
- Unscrew bolts -1- on bottom section of bumper cover.



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- Release bumper cover lock -3- by turning tensioning bolt in anti-clockwise direction.
- Unscrew bolts -1- on side sections of bumper cover (left and right).
- Detach side sections of bumper cover (left and right) from side panel -arrow-.
- Detach bumper cover -2-. When doing so, the electrical wiring harness for the parking aid senders must be routed out by the body opening.
- Move clear binding clip of electrical wiring harness.



Note

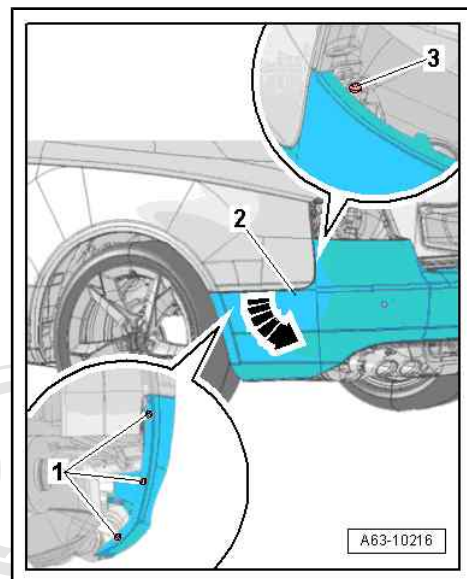
Use soap solution to aid removal if necessary.

Installing

- Gap widths ⇒ [page 147](#)
- Tightening torques ⇒ [page 143](#) .

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

- If applicable, connect electrical connector for parking aid control unit - J446- ⇒ Electrical system; Rep. gr. 94 ; Parking aid; Overview - parking aid .
- Install tail lights ⇒ Electrical system; Rep. gr. 94 ; Tail light cluster; Removing and installing tail light cluster .



2.4 Gap widths at bumper cover

A - Bumper cover (rear) to side panel (rear)

- Zero-gap panel joint

B - Bumper cover (rear) to tail light

- Gap width = 1.5 mm

C - Bumper cover (rear) to side of rear lid

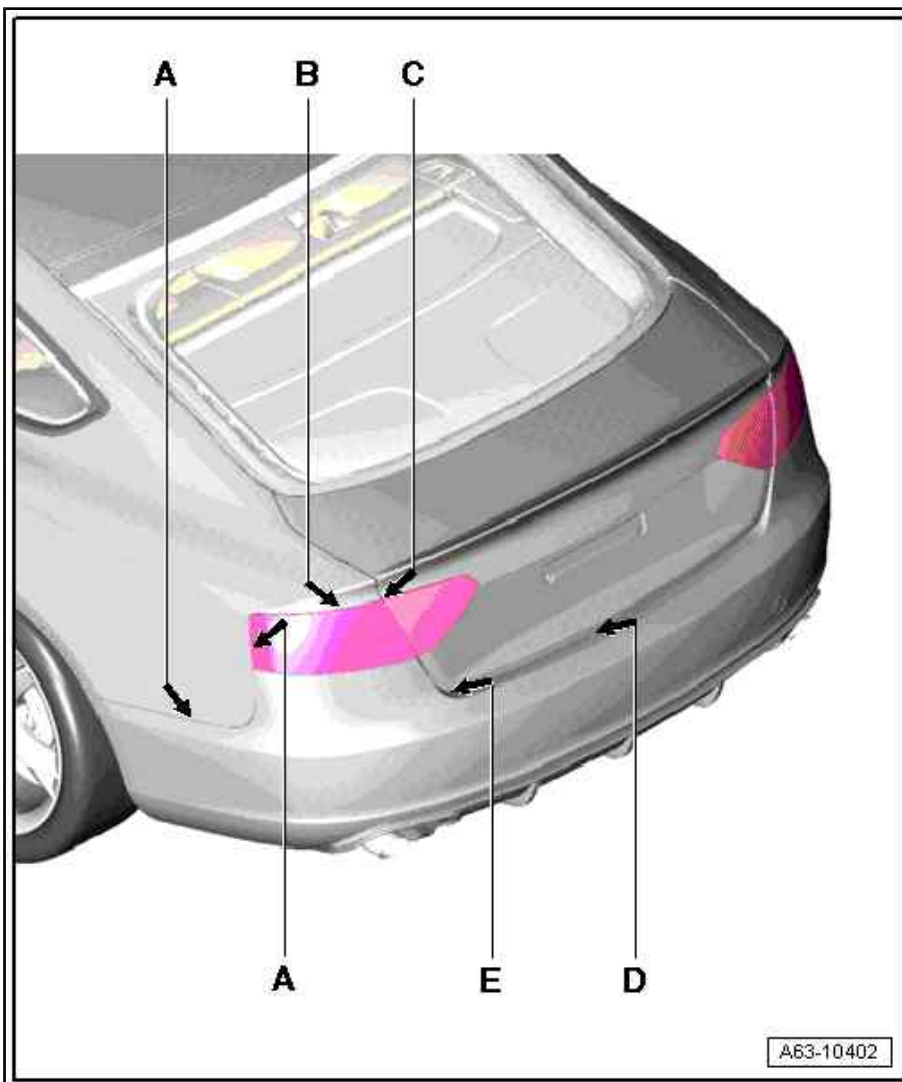
- Gap width = 3.7 mm

D - Bumper cover (rear) to bottom of rear lid

- Gap width = 5.0 mm

E - Radius: bumper cover (rear) to rear lid

- Gap width = 4.1 mm



2.5 Removing and installing guides for bumper

Mounting (side) ⇒ [page 148](#)

Lock ⇒ [page 149](#)

Mounting (side)

Removing

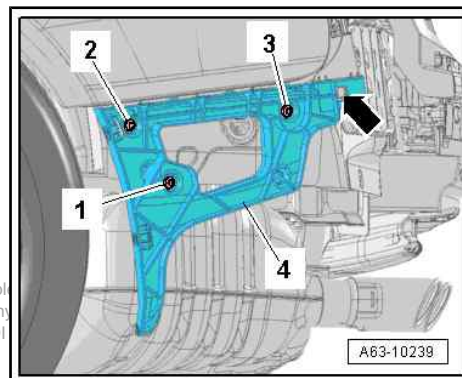
- Remove bumper cover (rear) ⇒ [page 146](#) .
- Remove bolts -1 ... 3-.
- Release retaining spring at bumper cover lock -arrow- and remove bumper cover mounting (side) -4- downwards.

Installing

- Tightening torque ⇒ [page 144](#)

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

- Install bumper cover (rear) ⇒ [page 146](#) .



Lock

Removing

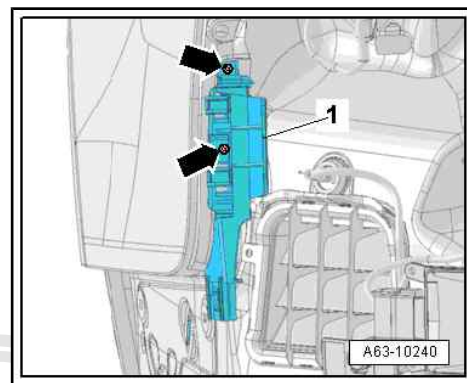
- Remove bumper cover (rear) ⇒ [page 146](#) .
- Remove bumper cover mounting (side) ⇒ [page 148](#) .
- Unscrew bolts -arrows- and detach lock -1- for bumper cover (front).

Installing

- Tightening torque ⇒ [page 143](#)

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

- Install bumper cover mounting (side) ⇒ [page 148](#) .
- Install bumper cover (rear) ⇒ [page 146](#) .



2.6 Removing and installing attachments

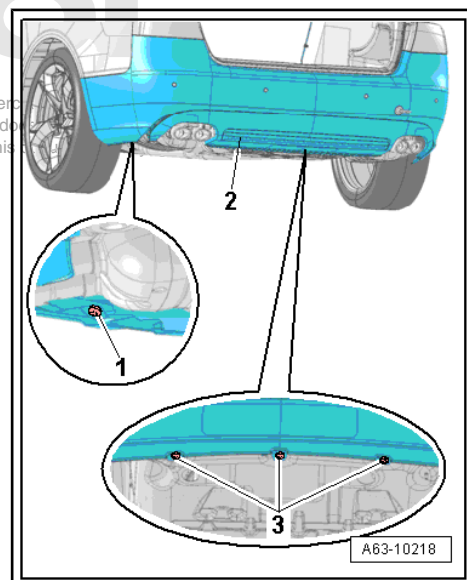
Bottom section ⇒ [page 149](#)

Trim strip ⇒ [page 150](#)

Bottom section

Removing

- Unscrew bolts -1- and -3- on bottom section -2- of bumper cover.



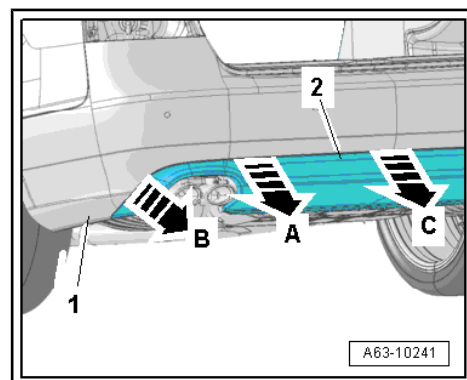
- Starting above tailpipe, unclip bottom section -2- for bumper cover -1- from bumper cover in the sequence -arrows A ... C-.

Installing

- Tightening torque ⇒ [page 143](#)

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

- When pressing into place, make sure that tips are threaded into bumper cover before pressing home.



Trim strip

Removing

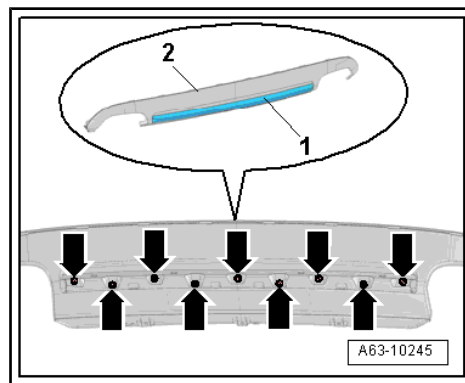
- Remove bottom section of bumper cover ⇒ [page 149](#) .
- Remove bolts -arrows-.
- Detach trim strip -1- from bottom section of bumper cover -2-.

Installing

- Tightening torque ⇒ [page 143](#)

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

- Install bottom section for bumper cover ⇒ [page 149](#) .



2.7 Removing and installing impact bar

⇒ [“2.7.1 Removing and installing impact bar - vehicles without towing bracket”, page 150](#)

⇒ [“2.7.2 Removing and installing impact bar - vehicles with towing bracket”, page 150](#)

2.7.1 Removing and installing impact bar - vehicles without towing bracket

Removing

- Remove bumper cover (rear) ⇒ [page 146](#) .
- Unplug electrical connector at radio controlled clock receiver - J489- .



Note

If impact bar -3- is renewed, radio controlled clock receiver - J489- must be removed ⇒ Electrical system; Rep. gr. 90 ; Clock; Removing and installing radio controlled clock receiver .

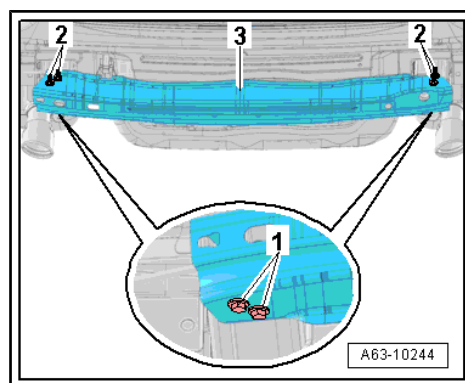
- Counterhold nuts -2- and remove bolts -1-.
- Detach impact bar -3-.

Installing

- Tightening torque ⇒ [page 145](#)

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

- Install bumper cover (rear) ⇒ [page 146](#) .



2.7.2 Removing and installing impact bar - vehicles with towing bracket

Removing

- Remove bumper cover (rear) ⇒ [page 146](#) .
- Remove socket for towing bracket ⇒ Electrical system; Rep. gr. 96 ; Towing bracket; Overview - trailer socket, trailer detector control unit .

- Move clear binding clip -1- for electrical wire.



Note

Use soap solution to aid removal if necessary.

- If fitted, unplug electrical connector at radio controlled clock receiver - J489- -item 2-.



Note

If impact bar -3- is renewed, radio controlled clock receiver - J489- must be removed ⇒ Electrical system; Rep. gr. 90 ; Clock; Removing and installing radio controlled clock receiver .

- Remove fastening rings ⇒ General body repairs, interior; Rep. gr. 70 ; Luggage compartment trim panels; Removing and installing fastening ring .
- Detach luggage compartment side trim (left and right) at rear ⇒ General body repairs, interior; Rep. gr. 70 ; Luggage compartment trim panels; Removing and installing luggage compartment side trim .
- Unscrew bolts -arrows- and detach impact bar -3-.

Installing

- Tightening torque ⇒ [page 145](#)

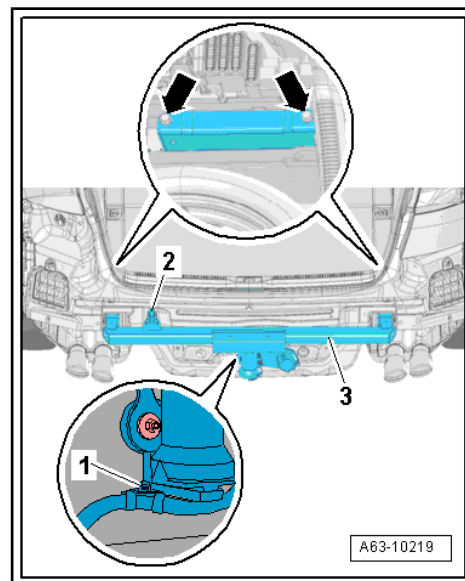
Installation is carried out in the reverse order; note the following:

- Install luggage compartment side trim (left and right) ⇒ General body repairs, interior; Rep. gr. 70 ; Luggage compartment trim panels; Removing and installing luggage compartment side trim .
- Install fastening rings ⇒ General body repairs, interior; Rep. gr. 70 ; Luggage compartment trim panels; Removing and installing fastening ring .
- Install socket for towing bracket ⇒ Electrical system; Rep. gr. 96 ; Towing bracket; Overview - trailer socket, trailer detector control unit .
- Install bumper cover (rear) ⇒ [page 146](#) .

2.8 Removing and installing mounting for impact bar

Removing

- Remove bumper cover (rear) ⇒ [page 146](#) .
- Remove impact bar ⇒ [page 150](#) .
- Remove fastening rings ⇒ General body repairs, interior; Rep. gr. 70 ; Luggage compartment trim panels; Removing and installing fastening ring .
- Detach luggage compartment side trim (left and right) at rear ⇒ General body repairs, interior; Rep. gr. 70 ; Luggage compartment trim panels; Removing and installing luggage compartment side trim .



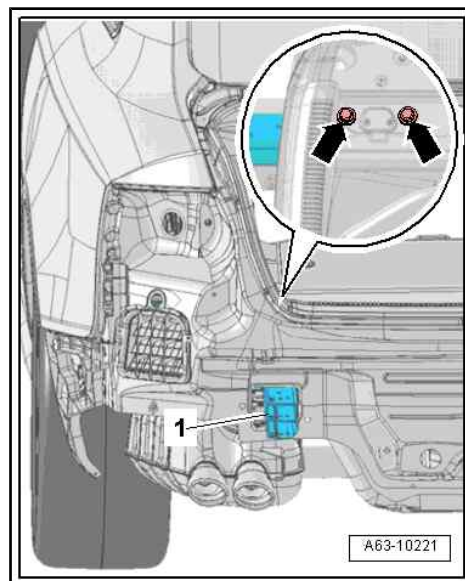
- Unscrew bolts -arrows- and detach mounting -1- for impact bar.

Installing

- Tightening torque ⇒ [page 145](#)

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

- Install luggage compartment side trim (left and right) ⇒ General body repairs, interior; Rep. gr. 70 ; Luggage compartment trim panels; Removing and installing luggage compartment side trim .
- Install fastening rings ⇒ General body repairs, interior; Rep. gr. 70 ; Luggage compartment trim panels; Removing and installing fastening ring .
- Install impact bar ⇒ [page 150](#) .
- Install bumper cover (rear) ⇒ [page 146](#) .



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64 – Glazing

1 Notes on repairs

⇒ [“1.1 Minimum drying times for flush-bonded windows”, page 153](#)

⇒ [“1.2 Repairing windows”, page 153](#)

⇒ [“1.3 Notes on installing flush-bonded windows”, page 154](#)

⇒ [“1.4 Cleaning off adhesive sealant”, page 157](#)

⇒ [“1.5 Re-sealing windows”, page 157](#)

1.1 Minimum drying times for flush-bonded windows



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	2-component window adhesive - D 004 660 M2-	2
Rear window		2-component window adhesive - D 004 660 M2-	2
Side windows		1-component window adhesive - DH 009 100 03-	3

1.2 Repairing windows

VAS 6092



W00-10412

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.*

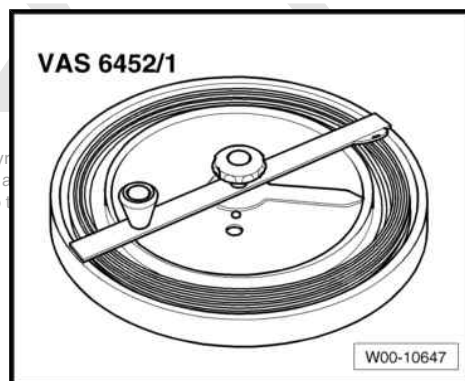
1.3 Notes on installing flush-bonded windows

Special tools and workshop equipment required

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

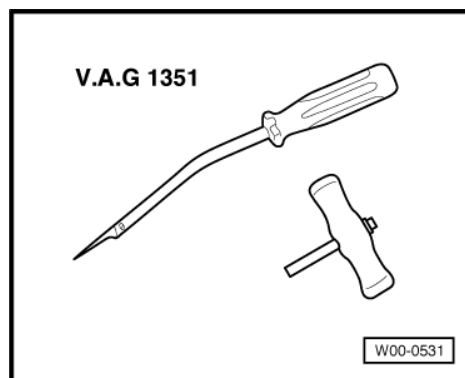


- ◆ Wire reel - VAS 6452/1-



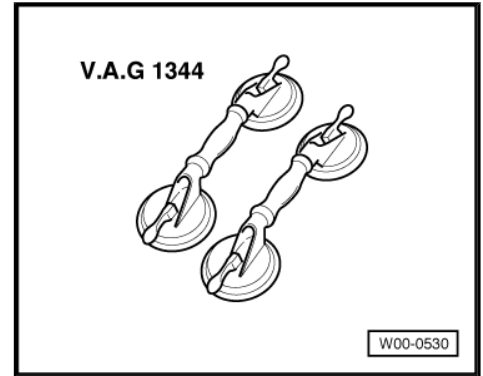
- ◆ Wire for removal kit - VAS 6452/2-

- ◆ Cutting tool - V.A.G 1351-

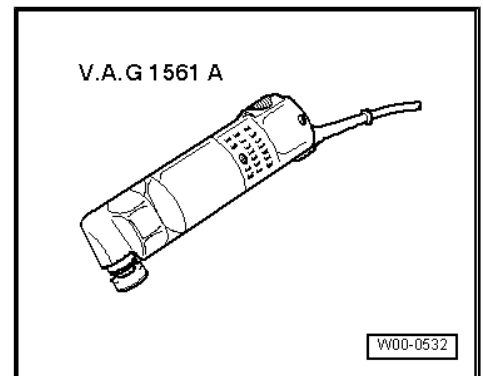


- ◆ Pull handle - V.A.G 1351/1-

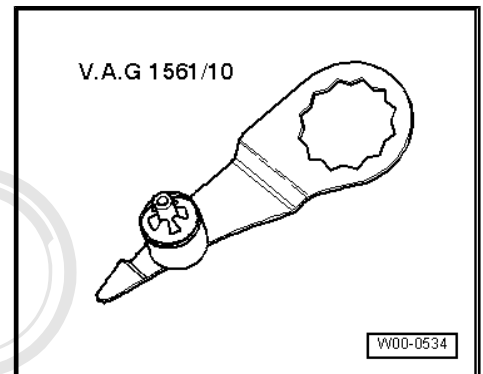
◆ Suction lifter - V.A.G 1344-



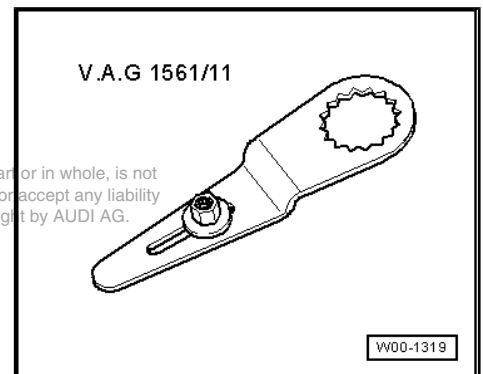
◆ Electric cutter - V.A.G 1561A-



◆ Blade, offset - V.A.G 1561/10-

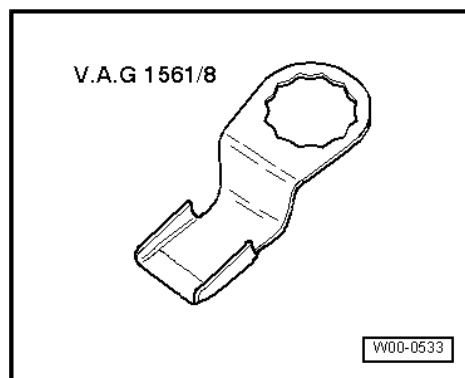


◆ Universal blade - V.A.G 1561/11-

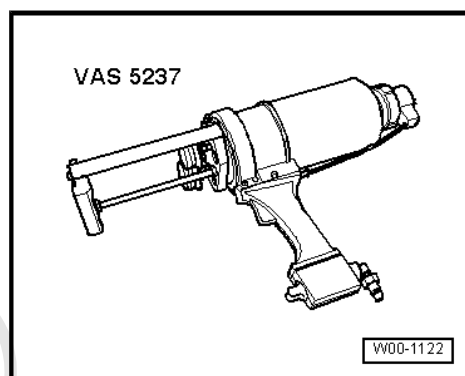


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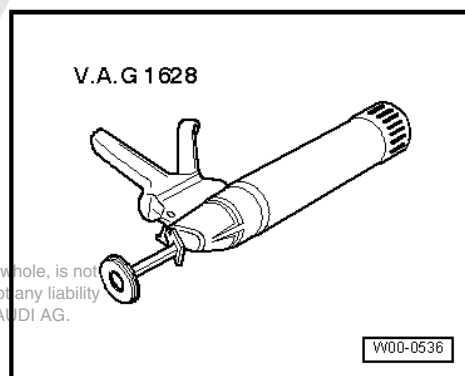
- ◆ Scraper (15 + 25 mm) - V.A.G 1561/7+8-



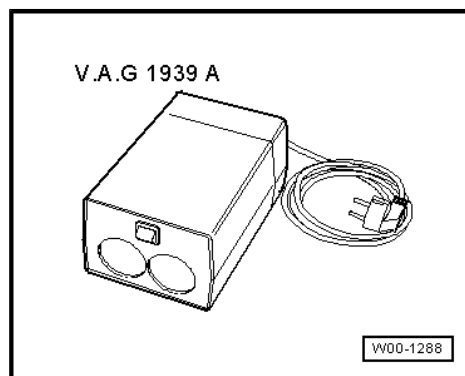
- ◆ Double cartridge gun - VAS 5237-



- ◆ Hand-cartridge gun - V.A.G 1628-



- ◆ Cartridge heater - V.A.G 1939A-



Materials

- ◆ 2-component window adhesive - D 004 660 M2- ³⁾
- ◆ 1-component window adhesive - DH 009 100 03- ⁶⁾
- ◆ Glass/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-

3) Note minimum drying time ⇒ [page 153](#) .

4) To process this material use double cartridge gun - VAS 5237- .

5) Heat using cartridge heater - V.A.G 1939 A- according to manufacturer's instructions.

6) Small 110 ml cartridge for sealing and/or for use when the 400 ml double cartridge is not sufficient.

1.4 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.

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 panels

- 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.

2 Windscreen

⇒ "2.1 Exploded view - windscreen", page 158

⇒ "2.2 Removing and installing windscreen", page 159

2.1 Exploded view - windscreen



Note

After renewing the windscreen, the camera must be re-calibrated on vehicles with lane departure warning ⇒ Running gear, axles, steering; Rep. gr. 44 ; Lane departure warning (Audi lane assist); Calibrating lane departure warning system .

1 - Windscreen

- ☐ Distance from roof: Dimension -a- = 4.5 mm
- ☐ Align side dimension -c-.

2 - Adhesive bead

- ☐ Note minimum drying time ⇒ [page 153](#) .

- Dimension -b- = 17 mm ± 2 mm
- Dimension -d- = 8 mm ± 2 mm
- Dimension -e- = 12 mm ± 2 mm

3 - Trim cover

- ☐ Not available as a separate replacement part

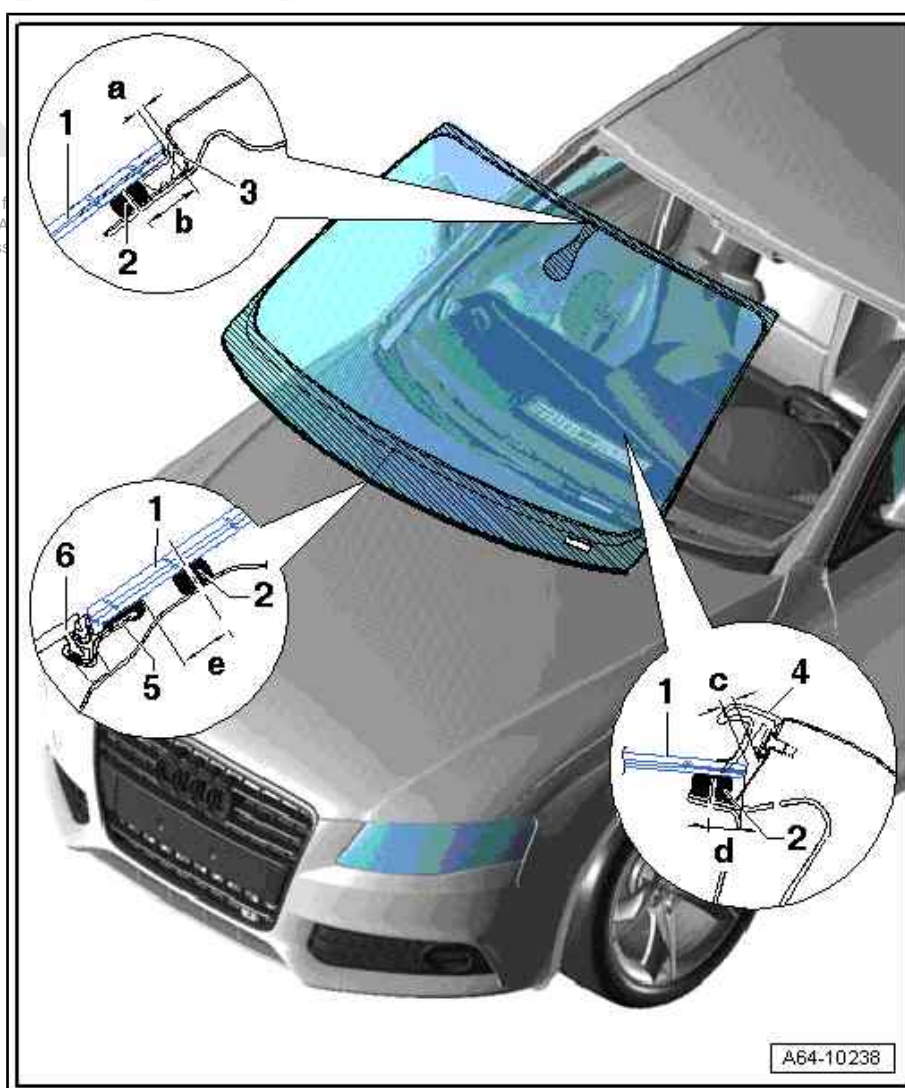
4 - Water deflector strip

5 - Surround for plenum chamber cover

- ☐ Not available as a separate replacement part
- ☐ With a new windscreen, the protective beading must be pulled out before fitting the plenum chamber cover.

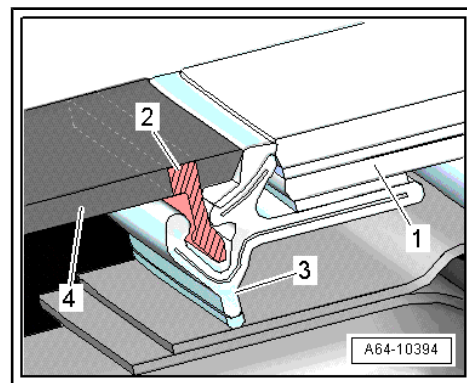
6 - Plenum chamber cover

- ☐ Allow glass adhesive to dry (3 hours) before pressing plenum chamber cover into retaining strip.



Removing protective beading

- Before fitting plenum chamber cover -4- when new windscreen -1- is installed, protective beading -2- must be removed from surround -3-.



2.2 Removing and installing windscreen

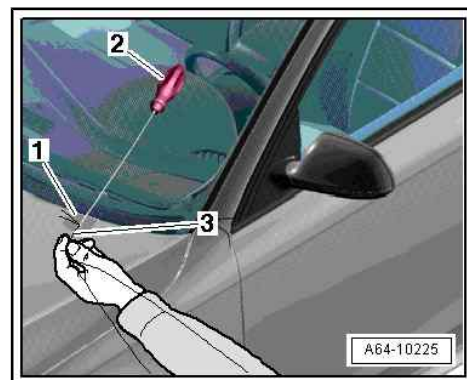
- Remove wiper arms ⇒ Electrical system; Rep. gr. 92 ; Windscreen wiper system; Removing and installing wiper arms .
- Remove plenum chamber cover ⇒ [page 13](#) .
- Remove sun visors (left, right and centre) ⇒ General body repairs, interior; Rep. gr. 68 ; Equipment; Exploded view - sun visors .
- Remove interior mirror ⇒ General body repairs, interior; Rep. gr. 68 ; Interior mirror; Removing and installing interior mirror .
- Remove A-pillar trim (top left and right) ⇒ General body repairs, interior; Rep. gr. 70 ; Passenger compartment trim panels; Removing and installing A-pillar trim .



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.

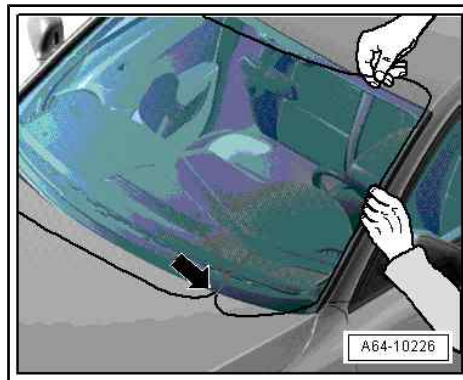


- Position cutting wire under glass all around windscreen, as shown.

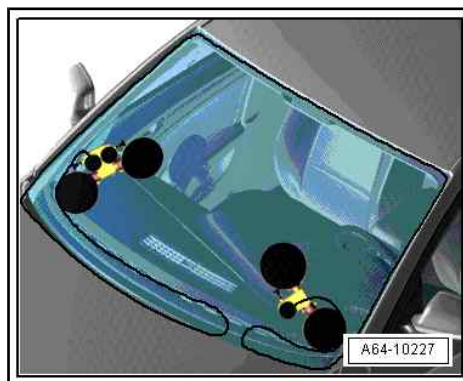


Caution

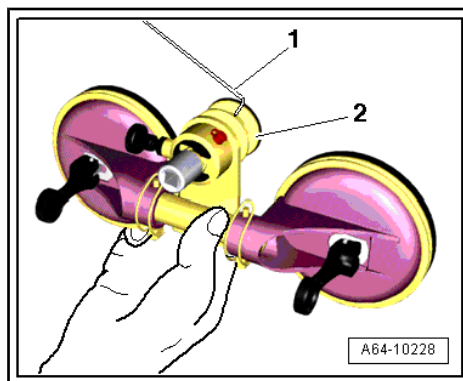
The wire ends must not be twisted at the point where they pass through the adhesive bead -arrow-.



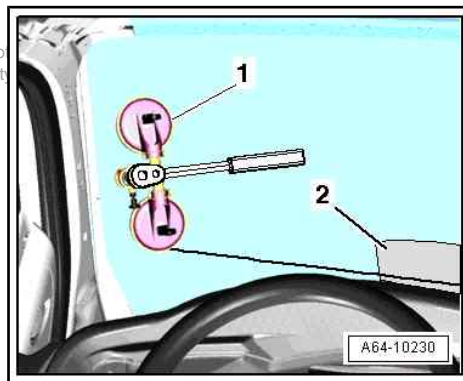
- Attach both reels to inside of windscreen, as shown.



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

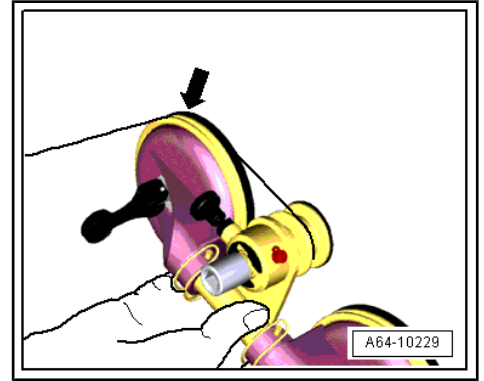


- Tension cutting wire and insert protective film -2- between dash panel and wire.

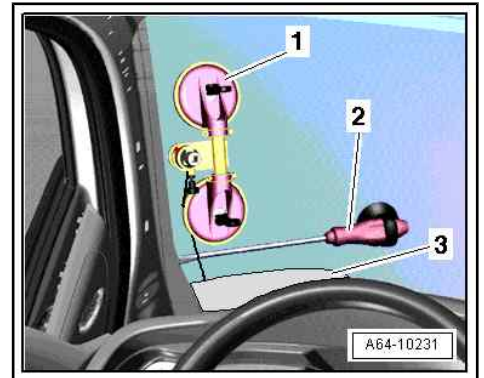


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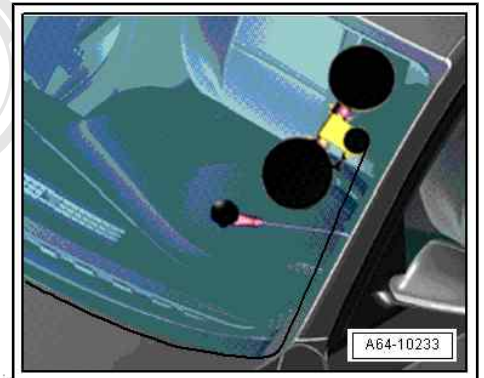
- Cut clear the first area. While doing so, wire is guided into integrated idler pulley -arrow- on reel.



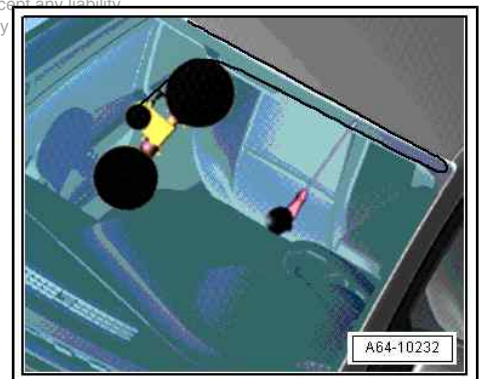
- Additionally insert guide awl -2- into adhesive bead, as shown, and attach it to windscreen using suction pad so that wire runs along windscreen as close to the glass as possible.
- Adjust protective film -3- as necessary with length of wire and continue cutting clear using reel -1-.



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

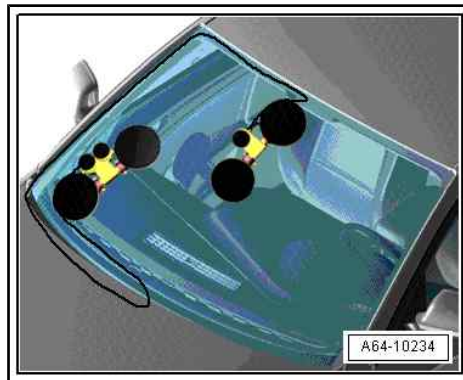


- Cut windscreen clear approx. to centre.

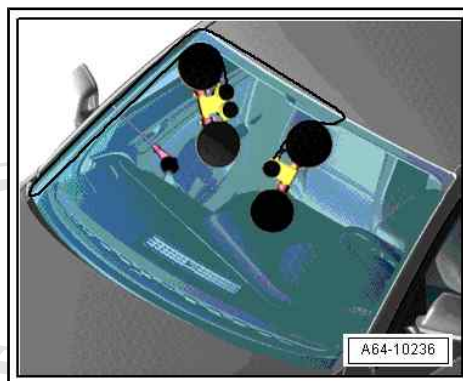


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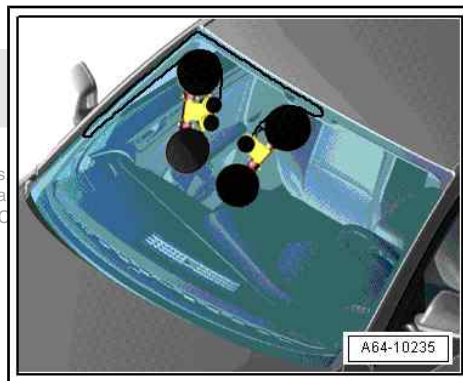
- Use second reel to cut clear bottom area of windscreen.



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



- Cut windscreen clear upwards along A-pillar.



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

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 for an even surface, but do not remove completely.



Note

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



Caution

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

If installing a new windscreen:

- Clean all around bonding surface with cleaning solution - D 009 401 04- .
- Apply glass/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.

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Applying primer:

- Use applicator -2- to apply glass/paint 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 glass/paint primer centrally in relation to adhesive bead.
- Flash-off time: 10 minutes

Windscreen flange:

- If windscreen/window 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/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:

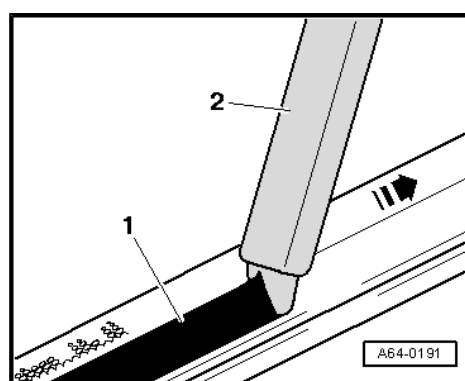
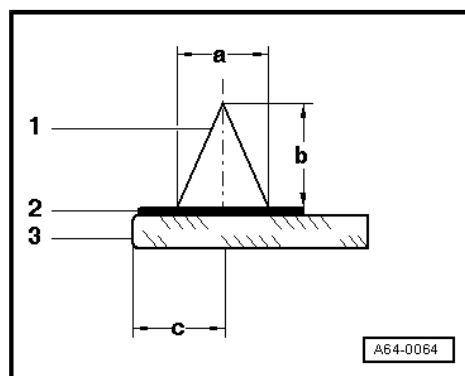
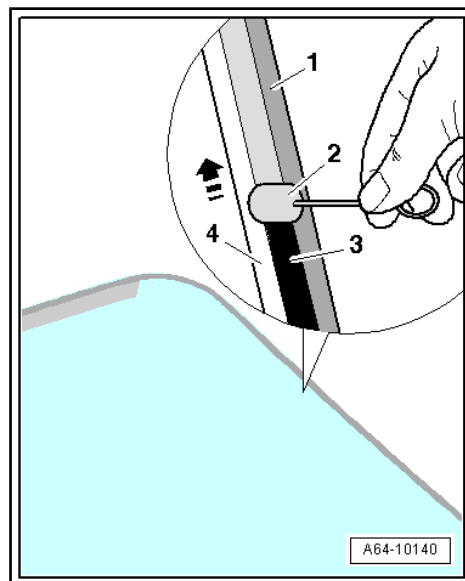
- 1 - Adhesive bead
- 2 - Glass/paint primer
- 3 - Windscreen

- Dimension -a- = 8 mm

- Dimension -b- = 12 mm

- Dimension -c-: note different distances from edge of windscreen ⇒ [Item 2 \(page 158\)](#) .

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



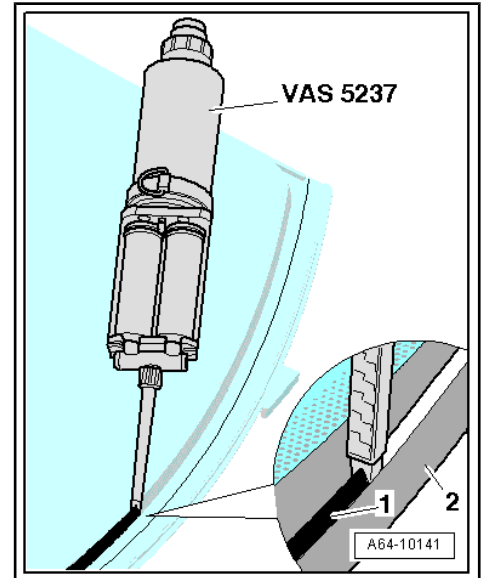
- Apply adhesive sealant -1- all around windscreen -2-, as shown.
- When reinstalling an undamaged windscreen, apply adhesive to remaining adhesive bead.
- Install windscreen glass in windscreen opening using two suction lifters.



Caution

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

- Align glass so that spacing is equal on both sides.
- Distance from edge of windscreen to roof frame
⇒ [Item 1 \(page 158\)](#)
- Secure windscreen to roof at top with adhesive tape.
- Pull protective strip -2- out of windscreen surround before fitting plenum chamber cover.
- Note minimum drying time ⇒ [page 153](#) .



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3 Rear window

⇒ "3.1 Exploded view - rear window", page 166

⇒ "3.2 Removing and installing rear window", page 167

3.1 Exploded view - rear window

1 - Rear window

- ☐ Distance -a- to brake light = 2.5 mm
- ☐ Set distance -e- to D-pillar = 3 mm.
- ☐ Prior to removal, unplug all electrical connectors and move contacts inwards towards the centre of the window and fix in position with adhesive tape.

2 - Spacers

- ☐ Supplied together with rear window

3 - Adhesive bead

- Width of bead = $8 \text{ mm} \pm 2 \text{ mm}$
- Height of bead = $12 \text{ mm} + 2 \text{ mm}$
- ☐ Distances from edge of window:
- ◆ Dimension -b- = 15 mm
- ◆ Dimension -c- = 13 mm
- ◆ Dimension -d- = 37 mm
- ◆ Dimension -e- = 3 mm

4 - Brake light

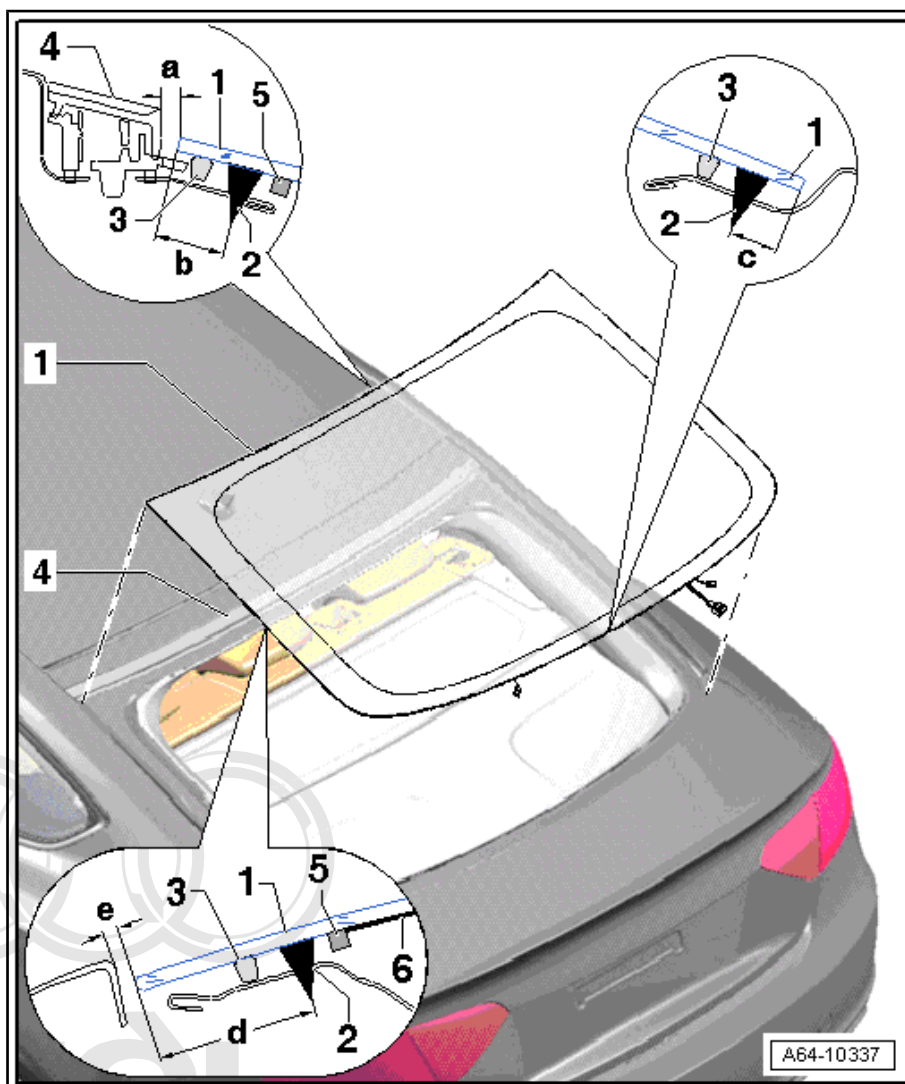
- ☐ Removed

5 - Adhesive stopper strip

- ☐ Bond strip centrally onto window with 24 mm to top edge of window.
- ☐ Affix adhesive stopper strip directly adjacent to bus bar for window heating at sides towards edge of window

6 - Bus bar

- ☐ For heated rear window
- ☐ Must not come into contact with window adhesive



A64-10337



Caution

- ◆ *Window adhesive must not come into contact with bus bar for window heating.*
- ◆ *The glass must be fitted within 15 minutes; otherwise the adhesive properties of the adhesive sealant will be impaired.*

- Align glass so that spacing is equal on both sides.
- Note distance to brake light = 2.5 mm.
- Note minimum drying time ➔ [page 153](#) .

3.2 Removing and installing rear window

Removing undamaged rear window

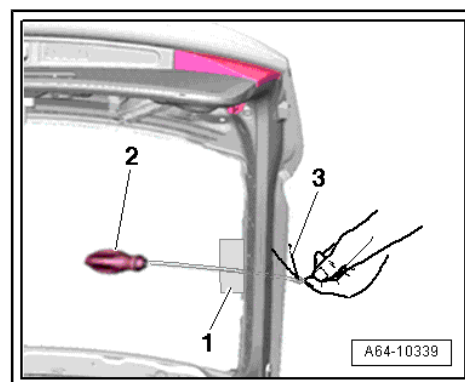
- Rear lid trim removed ➔ General body repairs, interior; Rep. gr. 70 ; Luggage compartment trim panels; Overview of fitting locations - luggage compartment trim panels .
- Unplug electrical connectors for heated rear window and window aerial, move towards centre of window and secure with adhesive tape.



WARNING

Always wear safety goggles and leather gloves when removing window.

- Use wire reel - VAS 6452/1- to reel off about 6.50 metres of cutting wire (corresponding to 6 turns) and cut off.
- Mask over body flange with adhesive tape -1- to avoid damage where awl -2- is pushed through at the bottom.
- Thread both ends of cutting wire -3- into awl -2- and pull through to the inside.



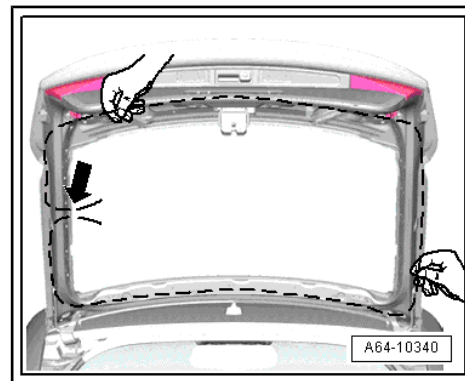
- Position cutting wire under glass all around rear window, as shown.

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

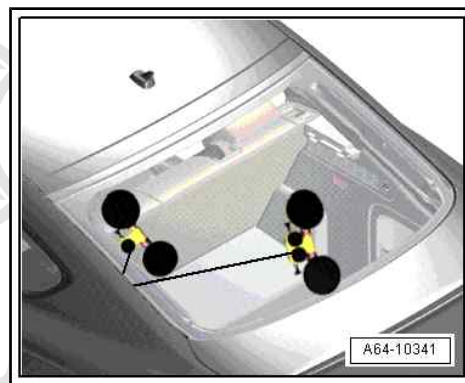


Caution

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

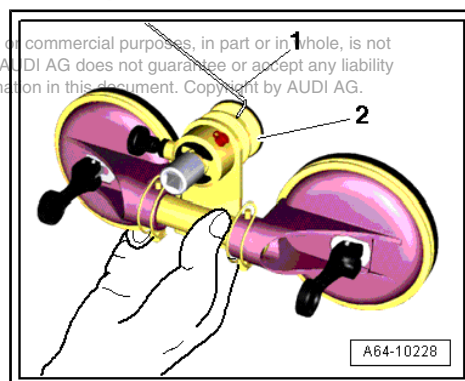


- Attach both reels to inside of window, as shown.

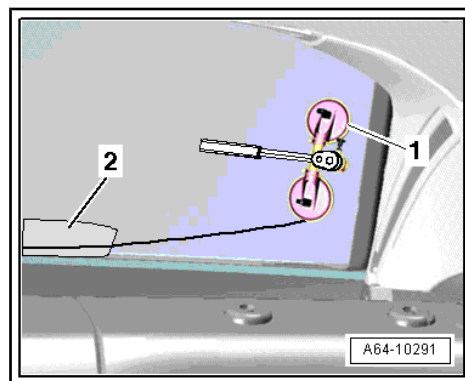


- Insert end of cutting wire -1- into reel -2-.

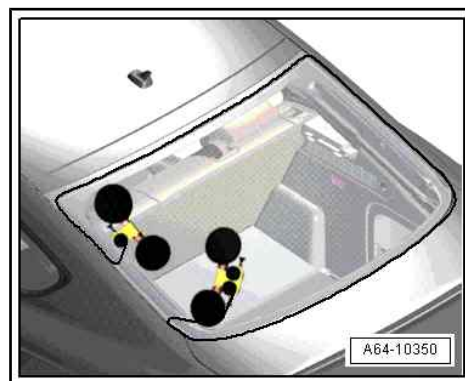
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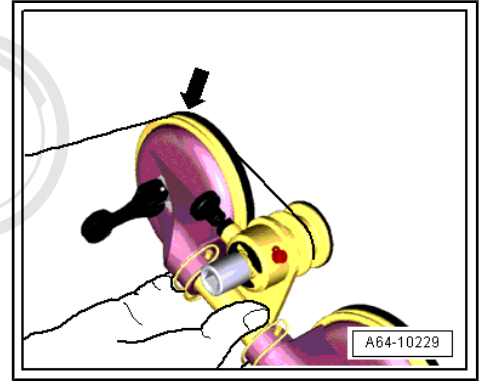
- Tension cutting wire with reel -1- and insert plastic film -2- from removal kit - VAS 6452- as protection between wire and window.
- Cut first section clear downwards along D-pillar.



- Move reel as shown.

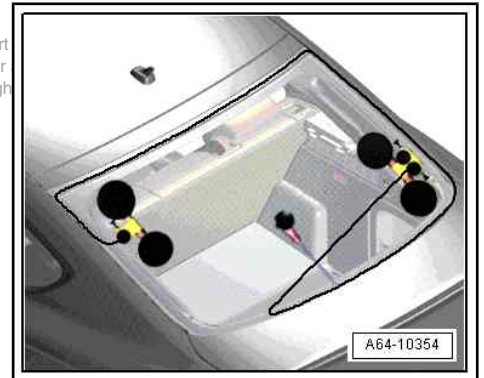


- While doing so, wire is guided into integrated idler pulley -arrow- on reel.
- Cut window clear at bottom left corner.

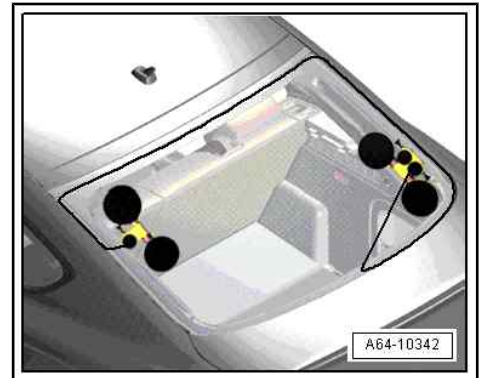


- Move reel as shown.

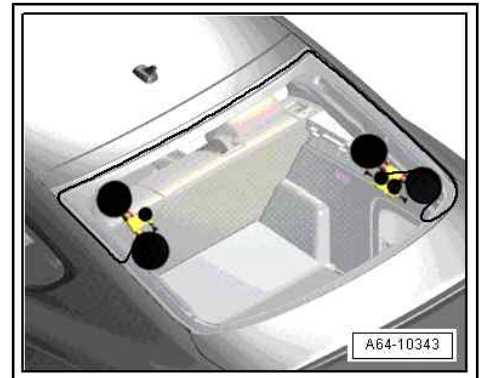
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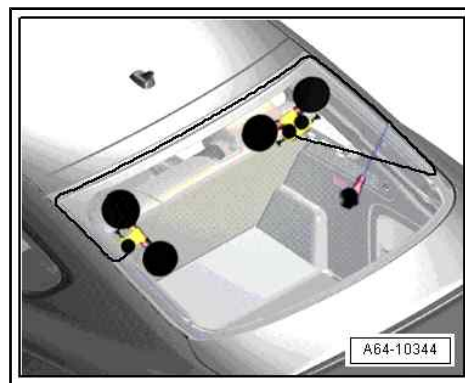
- Additionally insert guide awl into the adhesive bead, as shown, and attach it to window using suction pad so that wire runs along window as close to the glass as possible.
- Cut window clear from bottom edge towards right side.
- Adjust reel and guide awl, as shown, and cut clear area on D-pillar.



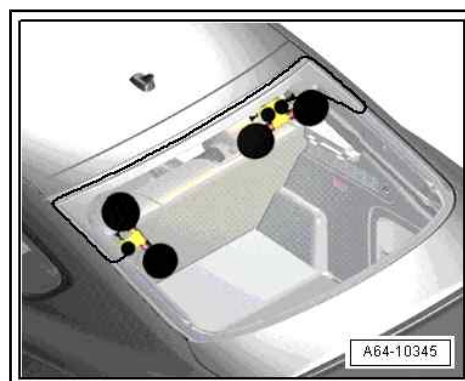
- Move reel as shown.
- Cut window clear at bottom right corner.



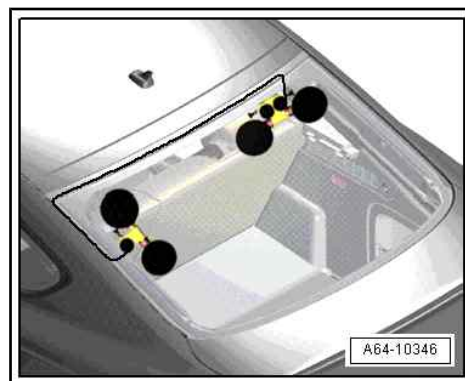
- Move reel up and apply guide awl.
- Cut out window towards top.



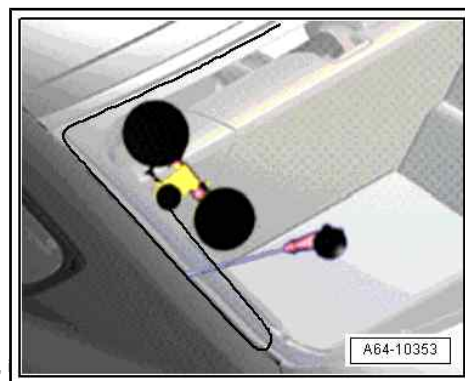
- Move reel as shown.



- Cut window clear at top right corner.



- Position guide awl as shown and cut window clear upwards at D-pillar.

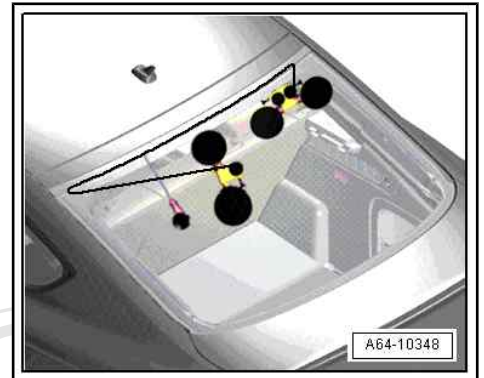


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- Move reel to top left corner of window, as shown, and cut out window.



- Move left reel to approx. centre of window, as shown, and apply guide awl.



- Cut clear window from top edge approx. to centre.



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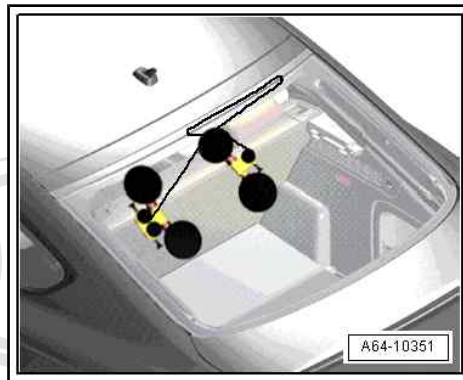
- Move right reel over left reel, as shown, and completely cut out window.
- Lift window out of rear lid using suction lifters.

Removing damaged rear window



WARNING

Always wear safety goggles and leather gloves when removing window.



- Protect body and interior against damage from glass splinters.
- Remove glass fragments down to adhesive sealant.
- Unplug electrical connectors for heated rear window and window aerial.
- Mask flange all round with fabric-backed adhesive tape.
- Cut through adhesive sealant (with glass fragments) in window opening using electric cutter - V.A.G 1561A- and offset blade - V.A.G 1561/10- (with roller stop).

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Preparations before installing rear window



Note

- ♦ Just before re-installing an undamaged window, 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 window and flange for an even surface, but do not remove completely.
- ♦ The remaining sealant is required as a base for better adhesion of the new adhesive sealant.



Caution

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

If installing a new window:

- Clean all around windscreen bonding area with cleaning solution - D 009 401 04- .



Caution

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

- Apply glass/paint primer - D 009 200 02- as described.

Applying primer:

- Use applicator -2- to apply glass/paint primer -3- evenly and in one movement to bonding area on window -4-.
- Start application with fully soaked felt.
- Flash-off time: 10 minutes



Caution

Glass/paint primer is conductive and must not come into contact with bus bar of rear window heating.

Window flange:

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

Installing



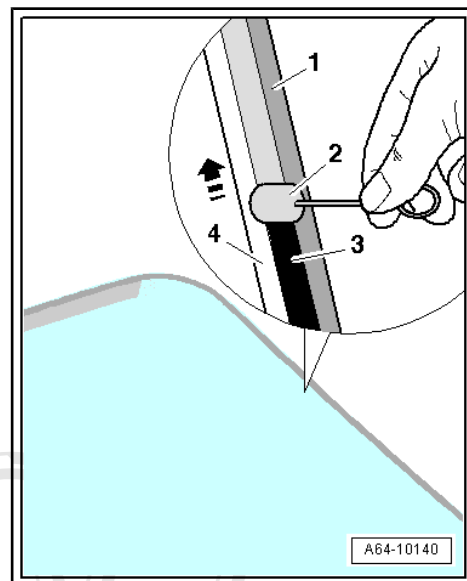
Note

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

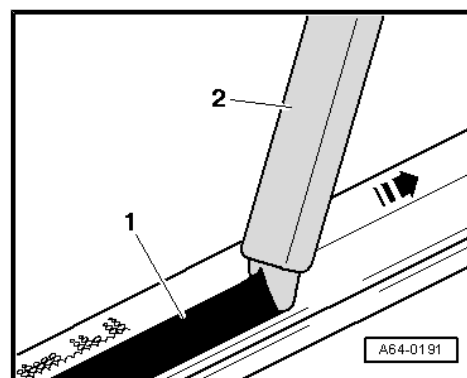
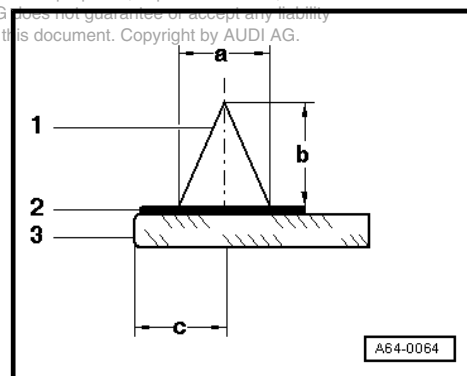
Dimensions for applying adhesive:

- 1 - Adhesive bead
- 2 - Glass/paint primer
- 3 - Rear window
- Dimension -a- = 8 mm ± 2 mm
- Dimension -b- = 12 mm ± 2 mm
- Dimension -c-: note different distances from edge of window ⇒ [page 166](#) .

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



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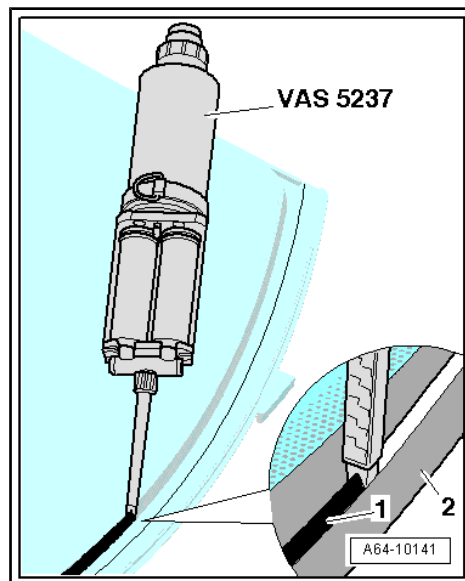


- Apply adhesive sealant all around window.
- When reinstalling an undamaged window, apply adhesive to remaining adhesive bead.
- Fit rear window into window opening using suction lifters.

**Caution**

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

- Align glass so that spacing is equal on both sides.
- Note minimum drying time ⇒ [page 153](#) .



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4 Side windows

⇒ "4.1 Exploded view - side window", page 175

⇒ "4.2 Removing and installing side window", page 175

4.1 Exploded view - side window

1 - Side window

- ☐ Roof trim strip removed
⇒ page 208
- ☐ B-pillar trim removed
⇒ page 198
- ☐ Pull door seal off C-pillar in area of side window.
- ☐ Remove window
⇒ page 175 .
- ☐ When installing a new window, first insert window with locating pin on D-pillar, then press fully into window opening and engage locating pins at C-pillar.
- ☐ If "old" window is re-installed, window must be secured in window opening using adhesive tape.

2 - Adhesive bead

- ◆ Dimension -a- = 6 mm
- ◆ Dimension -b- = 6 mm
- ◆ Dimension -c- = 33 mm

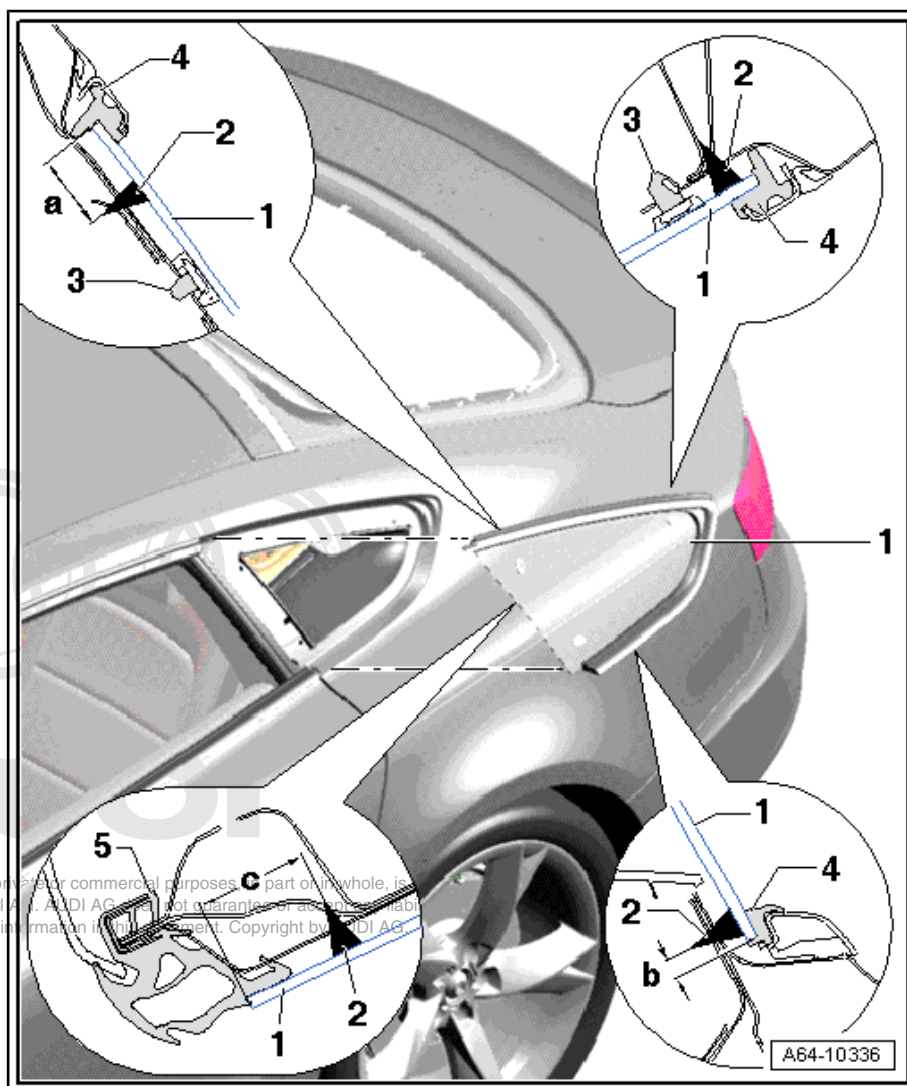
3 - Locating pin

- ☐ Not available as a separate replacement part
- ☐ Is cut in two when window is removed

4 - Moulding

5 - Door seal

- ☐ Detach in area of side window



4.2 Removing and installing side window

Removing undamaged side window



Caution

Use adhesive tape to protect paintwork of side panel and roof in cutting area.

- Detach door seal in area of C-pillar and side window.
- B-pillar trim removed ⇒ page 198

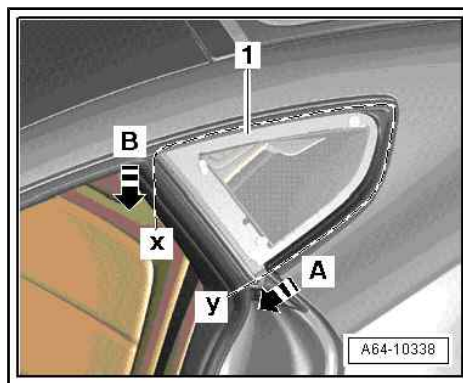
- Roof trim strip removed ⇒ [page 208](#)



Caution

Do NOT bend roof trim strip.

- Route cutting wire around side window as shown in illustration.
- Secure ends X and Y in two pull handles of cutting tool - V.A.G 1351- .
- With gentle sawing motion, pull cutting wire towards front in direction of -arrow A- and cut through adhesive bead at bottom of side panel and at roof frame.
- This involves first cutting the locating pin at the back of the window and then the adhesive bead.
- Then pull cutting wire downwards in direction of -arrow B- through adhesive bead.
- Take window out of window opening.



Removing damaged side window

- Protect body and interior against damage from glass splinters.
- Mask flange all round with fabric-backed adhesive tape.
- Remove glass fragments down to adhesive sealant.



WARNING

Always wear safety goggles and leather gloves when removing window.

- Cut through adhesive sealant (with glass fragments) in window opening using electric cutter - V.A.G 1561A- and offset blade - V.A.G 1561/10- (with roller stop).

Preparations before installing side window

- When reusing an undamaged window, use a carpet knife to cut back the remaining adhesive sealant on the window and body flange for an even surface, but do not remove completely.



Note

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

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Caution

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

If installing a new window:

- Clean all around windscreen bonding area with cleaning solution - D 009 401 04- .
- Apply glass/paint primer - D 009 200 02- along bonding area.
- Drying time: 10 minutes

Installing side window

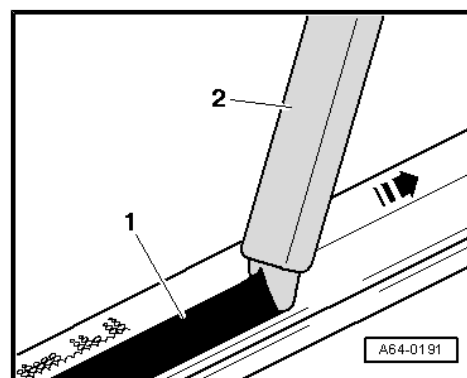
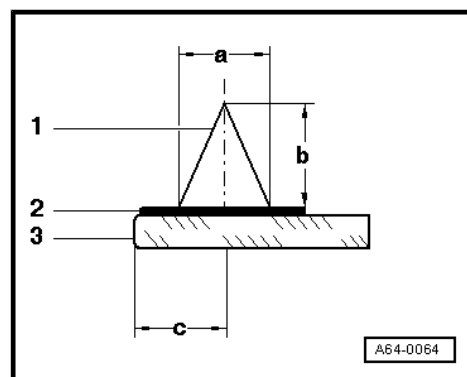


Note

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

Dimensions for applying adhesive:

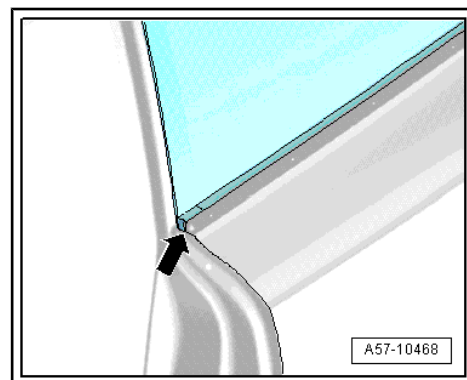
- 1 - Adhesive bead
 - 2 - Glass/paint primer
 - 3 - Window glass
- Dimension -a- = 8 mm + 2 mm
 - Dimension -b- = 12 mm + 3 mm
 - Distance -c- = from edge of window is predetermined by moulding or remaining bead.
- Apply full surface of nozzle -2- to window glass.
 - Direction of application -arrow- for adhesive bead -1-.
 - Apply adhesive sealant all round next to moulding.
 - When reinstalling an undamaged window, apply adhesive to remaining adhesive bead.



Note

Use 1-component window adhesive - DH 009 100 03- (small cartridge). If more than one window/glass has to be bonded, 2-component window adhesive set - D 004 660 M2- can also be used.

- First press in new window with locating pin at D-pillar, then insert in window opening and press locating pins into C-pillar.
- When installing windows without locating pin, align window lengthwise at edge of side panel -arrow- and insert into window opening.
- Secure window glass in position in window opening with adhesive tape (without locating pins).
- Install door seal at B-pillar.
- Note minimum drying time [⇒ page 153](#) .



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5 Door windows

⇒ ["5.1 Exploded view - front door window", page 178](#)

⇒ ["5.2 Exploded view - rear door window", page 179](#)

⇒ ["5.3 Removing and installing front door window", page 180](#)

⇒ ["5.4 Adjusting front door window", page 180](#)

⇒ ["5.5 Removing and installing rear door window", page 185](#)

⇒ ["5.6 Adjusting rear door window", page 185](#)

5.1 Exploded view - front door window

1 - Door

2 - Bolt

□ 9 Nm

3 - Window regulator

□ Adjusting ⇒ [page 180](#)

4 - Door window

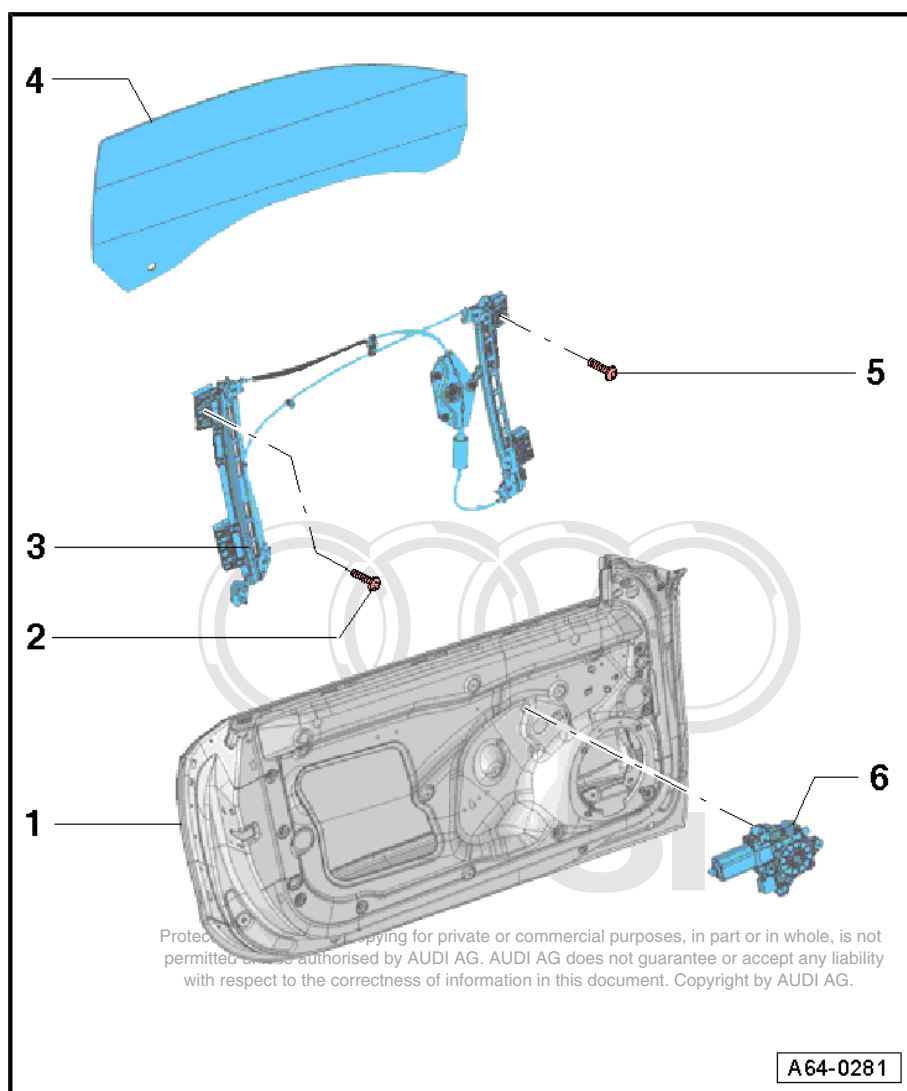
□ Removing and installing
⇒ [page 180](#)

□ Adjusting ⇒ [page 180](#)

5 - Bolt

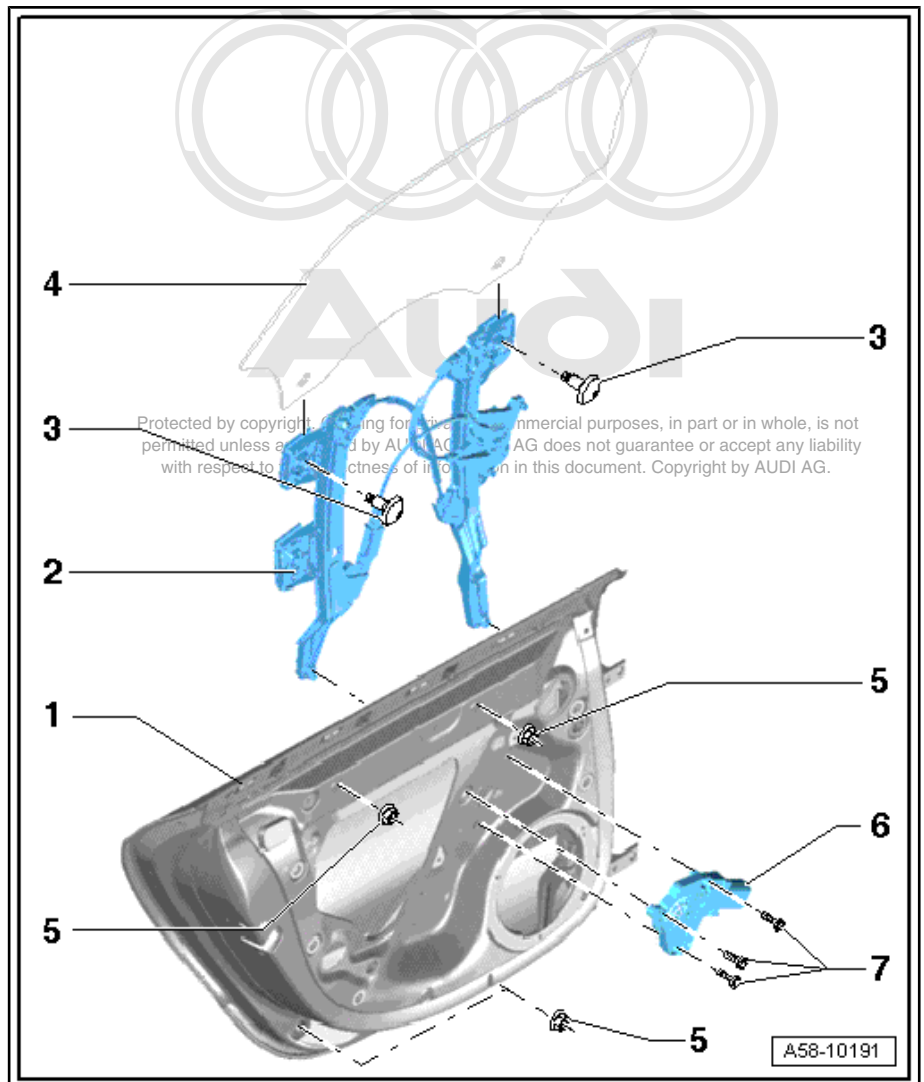
□ 9 Nm

6 - Window regulator motor



5.2 Exploded view - rear door window

- 1 - Rear door
- 2 - Window regulator
 - ❑ Removing and installing
⇒ [page 111](#)
- 3 - Bolt
- 4 - Rear door window
- 5 - Nut
 - ❑ Tightening torque
⇒ [Item 5 \(page 103\)](#)
- 6 - Window regulator motor
 - ❑ Removing ⇒ [page 110](#)
- 7 - Bolt
 - ❑ Tightening torque
⇒ [Item 7 \(page 103\)](#)



5.3 Removing and installing front door window

Removing

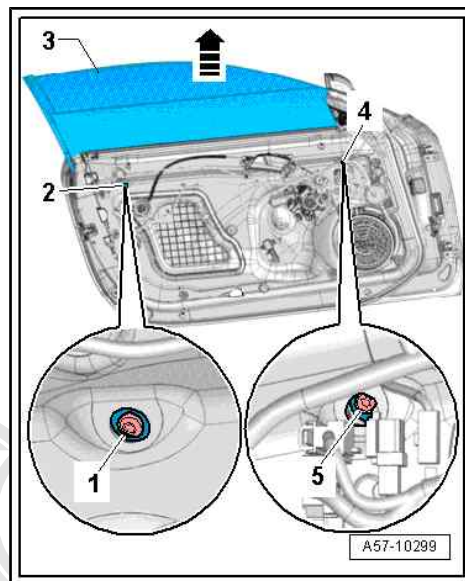
- Remove door trim ⇒ General body repairs, interior; Rep. gr. 70; Door trim (front); Removing and installing door trim (front).
- Pull out sealing plugs -2- and -4-.
- Lower door window until bolts in opening are visible.
- Unscrew bolts -1- and only loosen bolt -5-.



Note

Pull out bolt -1- (rear) completely; otherwise door window cannot be removed.

- Swivel door window -3- (rear) to outside and out of mounting in clamping jaw.
- Pull door window upwards out of clamping jaws and lift out of door -arrow-.



Installing

- Gap widths ⇒ [page 181](#)
- Tightening torque ⇒ [page 64](#)

Install in reverse order.

- Tilt door window forwards, insert it in door window guide and then rotate it into door slot.
- Push door window carefully and parallel downwards into clamping jaws. When doing so, make sure door window does not slip out of window guide (front).
- Press door window downwards into clamping jaws.



Note

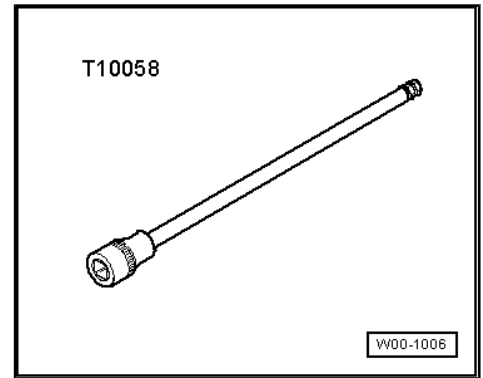
Before inserting rear bolt, check that door window is seated in mounting of clamping jaw.

- Tighten bolts.
- Adjust door window ⇒ [page 180](#).

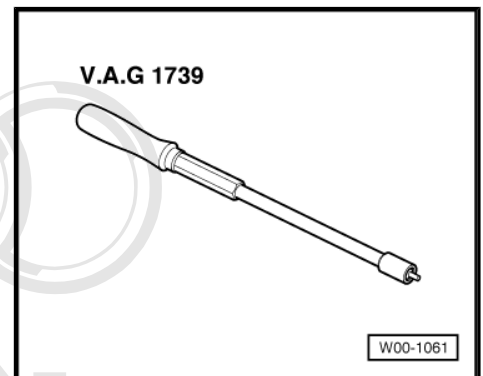
5.4 Adjusting front door window

Special tools and workshop equipment required

- ◆ Allen key, long reach - T10058-

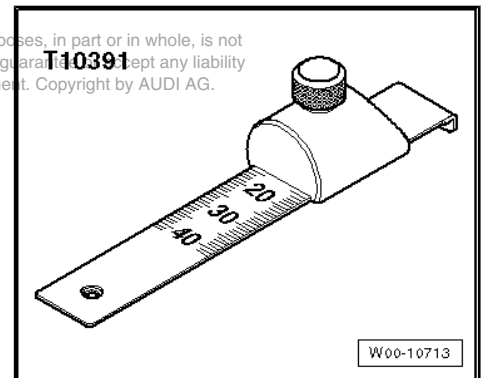


- ◆ Use this tool to adjust height.
- ◆ Rear window adjusting tool - V.A.G 1739-



- ◆ Use this tool for lateral adjustment.
- ◆ Gauge - T10391-

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Gap widths

A - Door window to A-pillar

- Gap width -a- = 5.3 mm
- Gap width -b- = 2.2 ± 1.5 mm

-1- Door window

□ Adjusting ⇒ [page 180](#)

B - Door window to roof (rear)

- Gap width -a- = 6.2 mm
- Gap width -b- = 5.1 ± 1.5 mm

-1- Door window

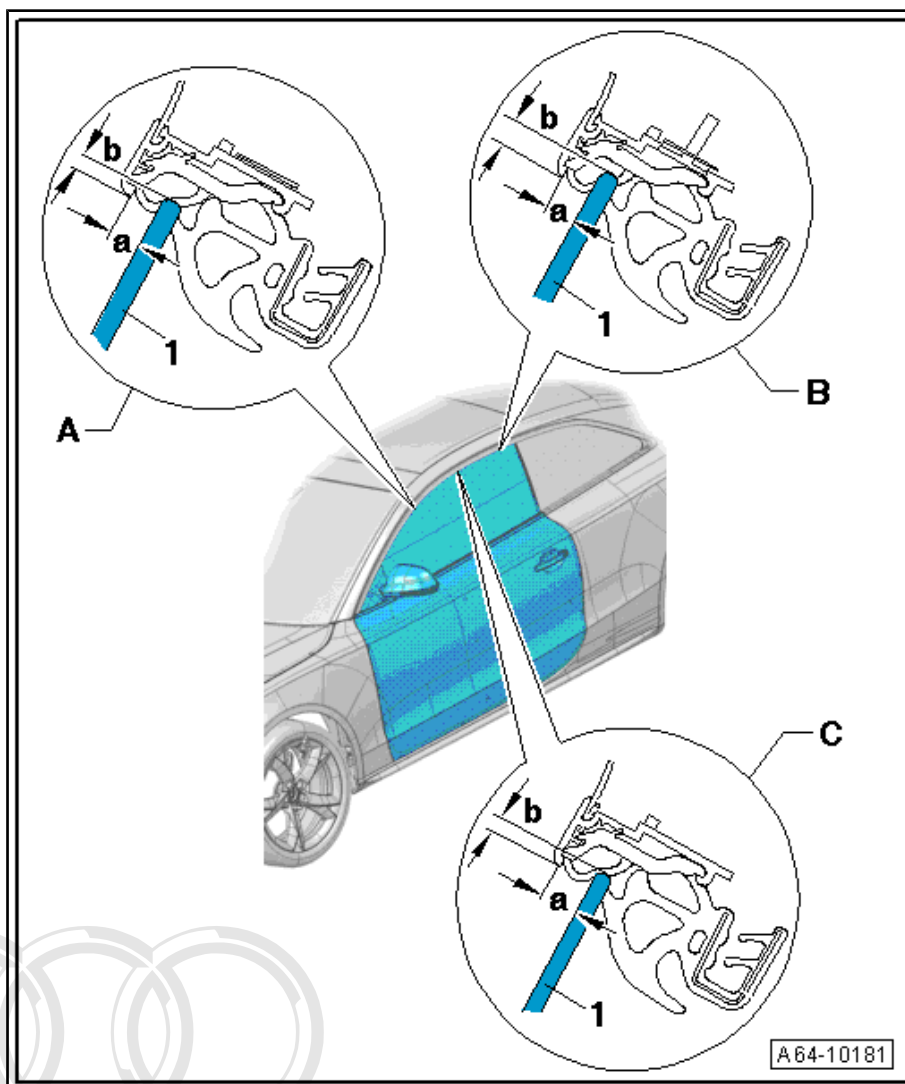
□ Adjusting ⇒ [page 180](#)

C - Door window to roof (front)

- Gap width -a- = 6.7 mm
- Gap width -b- = 3.0 ± 1.5 mm

-1- Door window

□ Adjusting ⇒ [page 180](#)



Lateral adjustment



Note

Adjustment dimensions ⇒ [page 181](#).

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A - Adjustment - door (bottom, rear)

- ❑ Versions from 06/2013 onwards (depending on version): adjustment is not possible at this location. Tightening torque: 12 Nm
- ❑ For bringing top edge of door window into contact with seal in roof area
- ❑ Accessible from the outside; it is not necessary to remove door trim

-1- Adjusting pin

-5- Door window

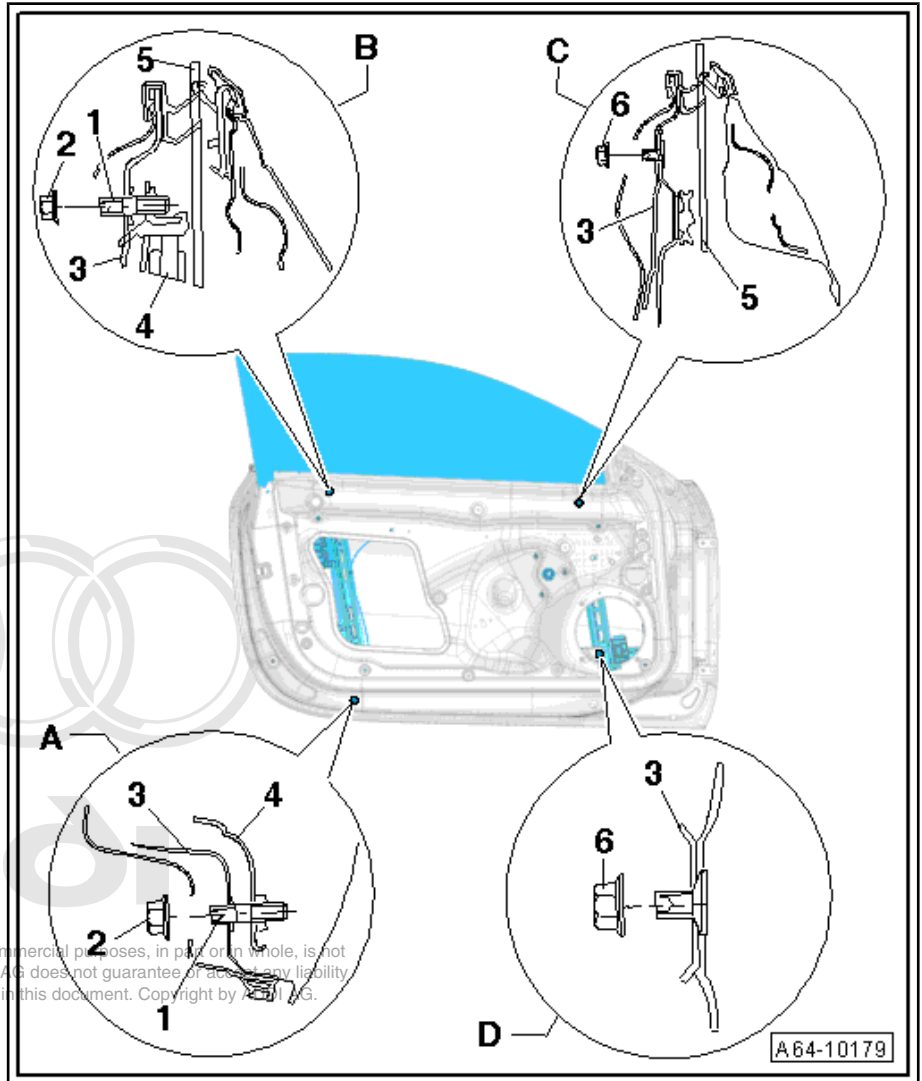
- To adjust, loosen lock nut -2- and turn adjusting pin -1- with Torx socket wrench.
- Turning anti-clockwise turns door window outwards
- Turning clockwise turns door window inwards
- After adjustment, tighten lock nut

After adjustment, tighten lock nut -2-

-2- Lock nut - 9 Nm

-3- Door

-4- Window regulator



B - Adjustment - door (top, rear)

- ❑ For moving door window in door window slot outwards or inwards
- ❑ Accessible after removing door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim (front); Removing and installing door trim (front)

-1- Adjusting pin

-5- Door window

- To adjust, loosen lock nut -2- and turn adjusting pin with Torx socket wrench.
- Turning anti-clockwise turns door window outwards
- Turning clockwise turns door window inwards
- After adjustment, tighten lock nut -2-

-2- Lock nut - 9 Nm

-3- Door

-4- Window regulator

C - Adjustment - door (top, front)

- ❑ The window regulator is bolted on at front and cannot be adjusted

-3- Door

-5- Door window

-6- Nut for window regulator - 9 Nm

D - Adjustment - door (bottom, front)

- ❑ The window regulator is bolted on at front and cannot be adjusted

-3- Door

-6- Nut for window regulator - 9 Nm

Height adjustment



Note

Adjustment dimensions ⇒ [page 181](#).

A - Adjustment - door (bottom, rear)

- ❑ For bringing top edge of door window into contact with seal in roof area (rear)
- ❑ Accessible through holes at bottom edge of door; it is not necessary to remove door trim

-1- Window regulator

-2- Adjuster screw

- To adjust height, use Allen key, long reach - T10058- or hexagon key (5 mm) to turn adjuster screw -2-.

- 1 turn = 1 mm adjustment

-3- Door window

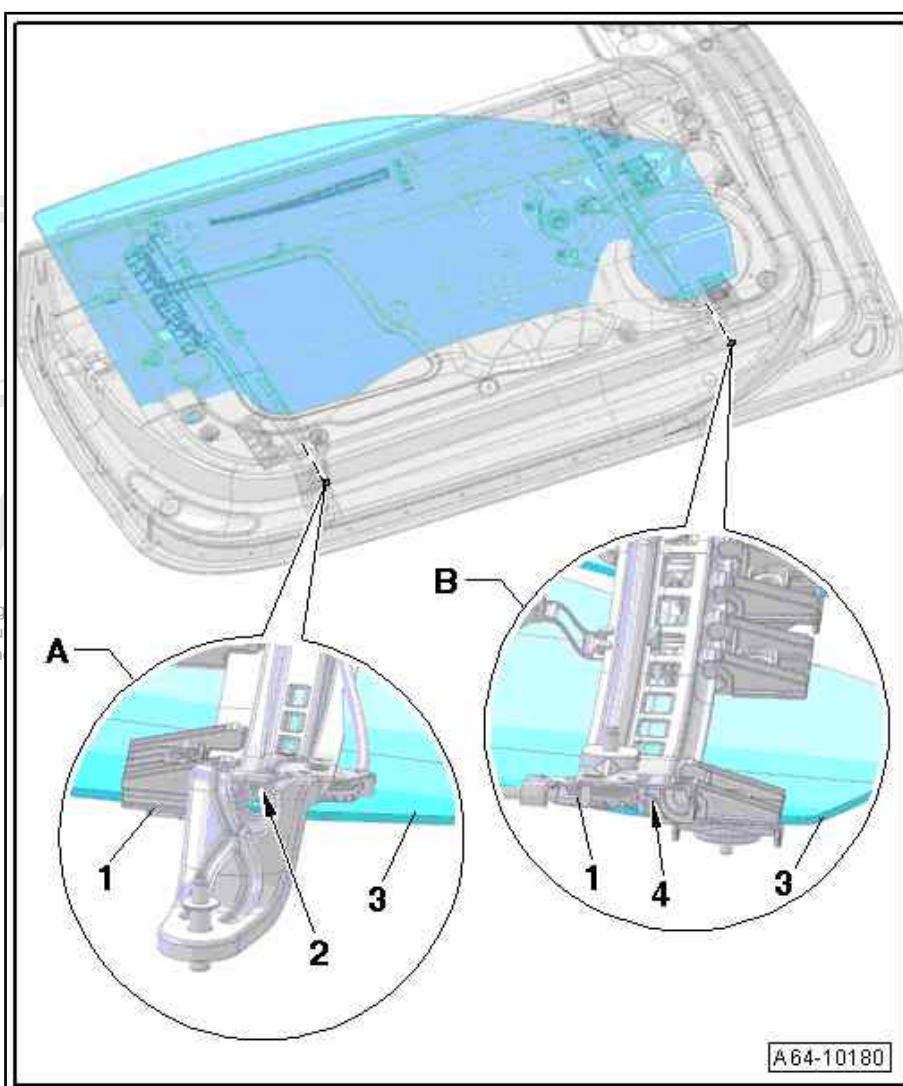
B - Adjustment - door (bottom, front)

- ❑ For bringing top edge of door window into contact with seal in roof area (front)
- ❑ Accessible through holes at bottom edge of door; it is not necessary to remove door trim

-1- Window regulator

-3- Door window

-4- Adjuster screw



- To adjust height, use Allen key, long reach - T10058- or hexagon key (5 mm) to turn adjuster screw -2-.
- 1 turn = 1 mm adjustment

5.5 Removing and installing rear door window

Removing

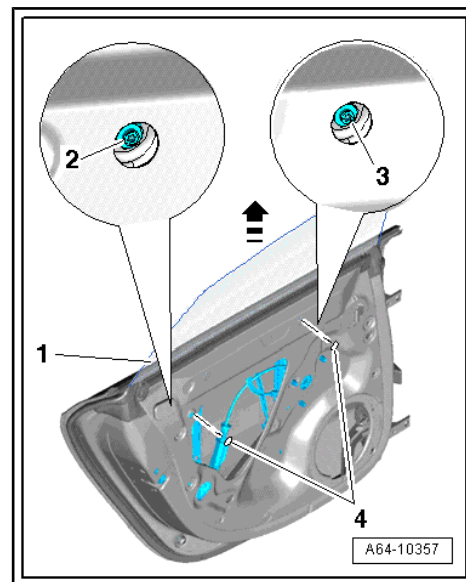
- Remove door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim (rear); Removing and installing door trim (rear) .
- Pull out sealing plugs -4-.
- Lower door window until bolts -2- and -3- in opening are visible.
- Remove bolts -2- and -3-.
- Pull door window -1- upwards out of clamping jaws and lift out of door.

Installing

- Gap widths ⇒ [page 186](#)
- Tightening torque ⇒ [page 64](#)

Install in reverse order.

- Push door window carefully and parallel downwards into clamping jaws. When doing so, make sure door window does not slip out of window guide (front).
- Press door window downwards into clamping jaws.



Note

Before inserting rear bolt, check that door window is seated in mounting of clamping jaw.

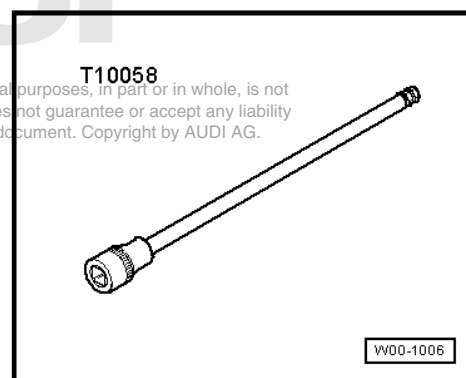
- Tighten bolts.

5.6 Adjusting rear door window

Special tools and workshop equipment required

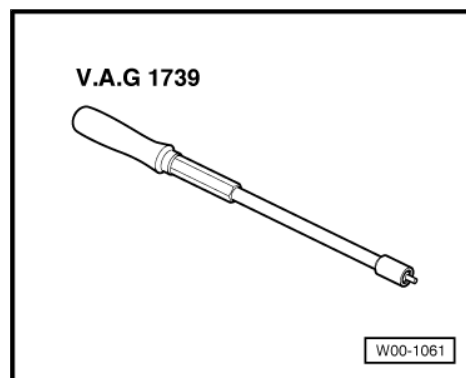
- ◆ Allen key, long reach - T10058-

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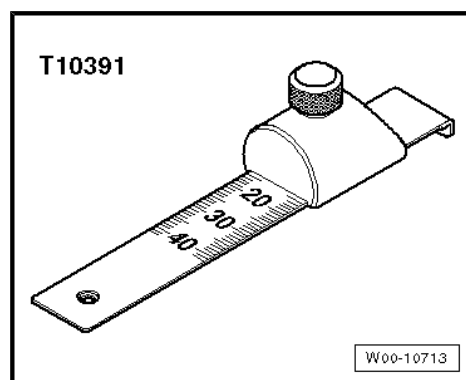


- ◆ Use this tool to adjust height.

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



- ◆ Use this tool for lateral adjustment.
- ◆ Gauge - T10391-



Gap widths



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- Door window to B-pillar

- Gap width -d- = 10 ± 1 mm

-1- Door window

- Door window to roof

- Gap width -a- = 5.3 ± 1 mm
- Gap width -b- = 3.3 ± 1.5 mm

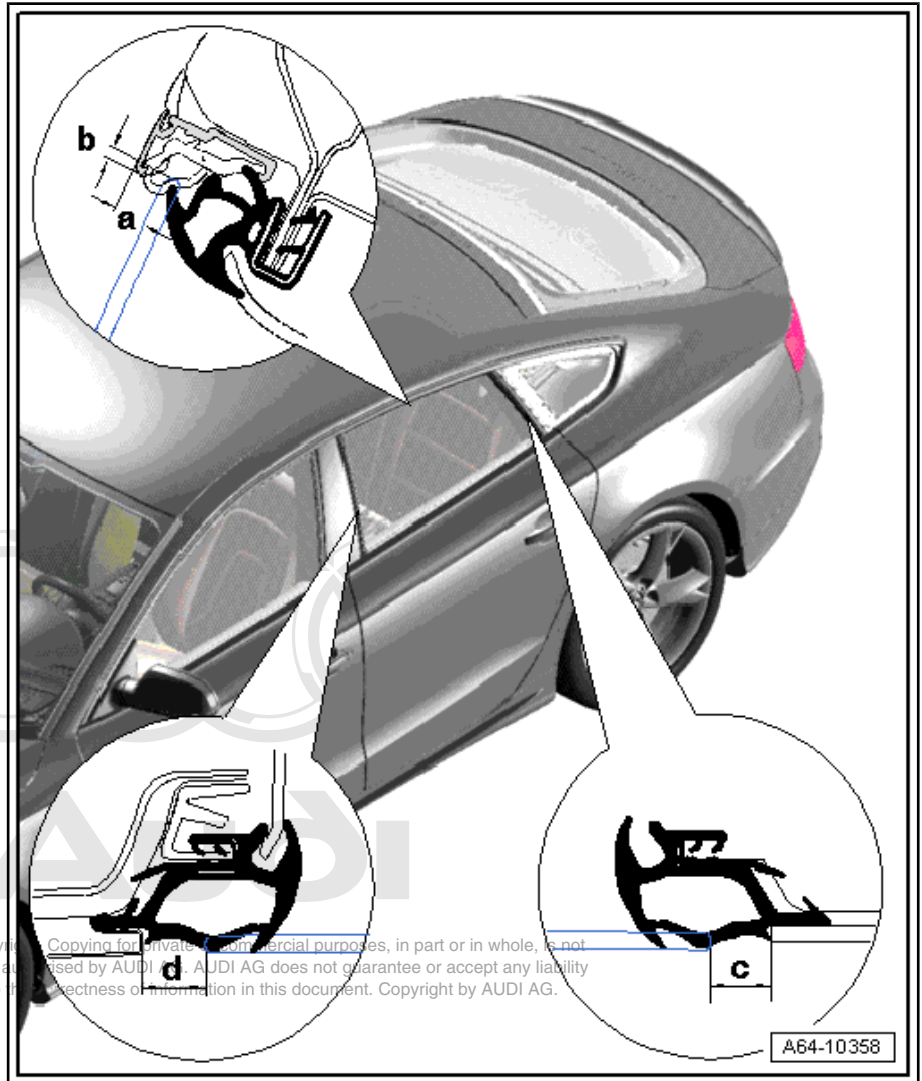
-1- Door window

- Door window to C-pillar

- Gap width -a- = 10 ± 1 mm

-1- Door window

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Lateral adjustment

- Adjustment - door (bottom, rear)

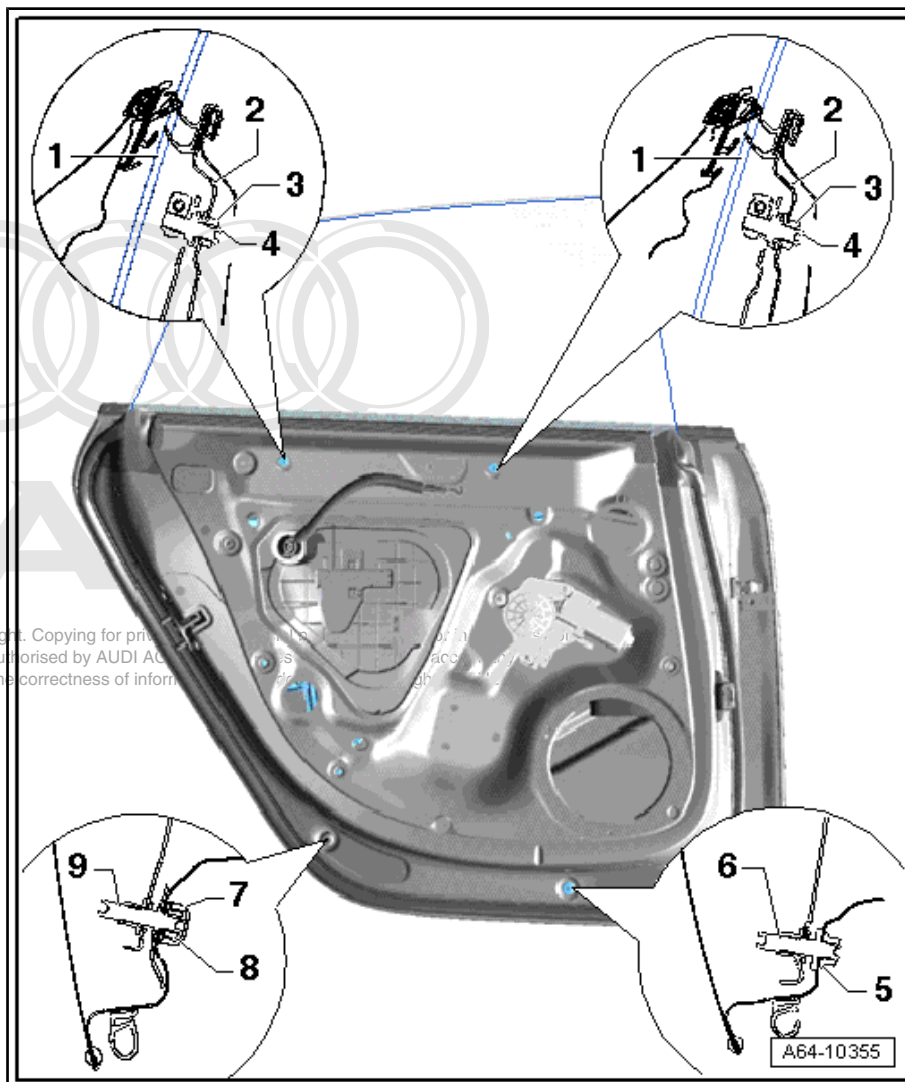
- ❑ Versions from 06/2013 onwards (depending on version): adjustment is not possible at this location. Tightening torque: 12 Nm
- ❑ For bringing top edge of door window into contact with seal in roof area
- ❑ Accessible from the outside; it is not necessary to remove door trim

-9- Adjusting pin

-1- Door window

- To adjust, detach cap -7-, loosen lock nut -8- and turn adjusting pin -9- with Torx socket wrench.
- Turning anti-clockwise turns door window outwards
- Turning clockwise turns door window inwards
- After adjustment, tighten lock nut
- After adjustment, tighten lock nut -8-

-8- Lock nut - 9 Nm



- Adjustment - door (top, rear)

- ❑ For moving door window in door window slot outwards or inwards
- ❑ Accessible after removing door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim (rear); Removing and installing door trim (rear)

-4- Adjusting pin

-1- Door window

- To adjust, loosen lock nut -3- and turn adjusting pin with Torx socket wrench.
- Turning anti-clockwise turns door window outwards
- Turning clockwise turns door window inwards
- After adjustment, tighten lock nut -3- to 9 Nm

-2- Door

- Adjustment - door (top, front)

- ❑ For moving door window in door window slot outwards or inwards
- ❑ Accessible after removing door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim (rear); Removing and installing door trim (rear)

-4- Adjusting pin

-1- Door window

- To adjust, loosen lock nut -3- and turn adjusting pin with Torx socket wrench.

-1- Door window

-2- Door

-3- Lock nut - 9 Nm

- Adjustment - door (bottom, front)

- ☐ Versions from 06/2013 onwards (depending on version): adjustment is not possible at this location. Tightening torque: 12 Nm
- ☐ For bringing top edge of door window into contact with seal in roof area
- ☐ Accessible from the outside; it is not necessary to remove door trim

-6- Adjusting pin

- 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 adjustment, tighten lock nut -5- to 9 Nm

Adjuster screw (top)

- To adjust, loosen lock nut -2- and turn adjusting pin -3- with Torx key.
- After adjusting, tighten nut to specified torque ⇒ [page 188](#).

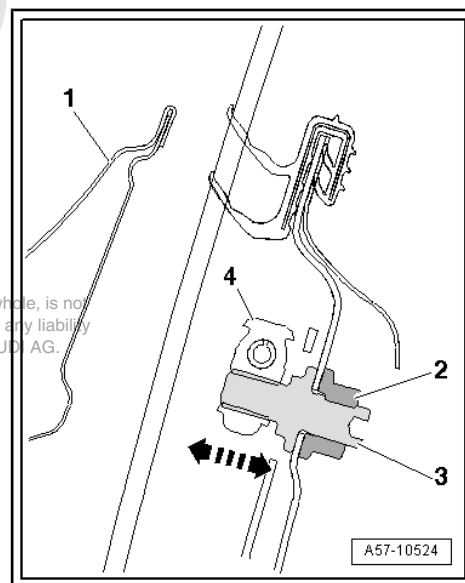


Note

Turning adjuster screw to the right moves top edge of window inwards.

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Adjuster screw (bottom)

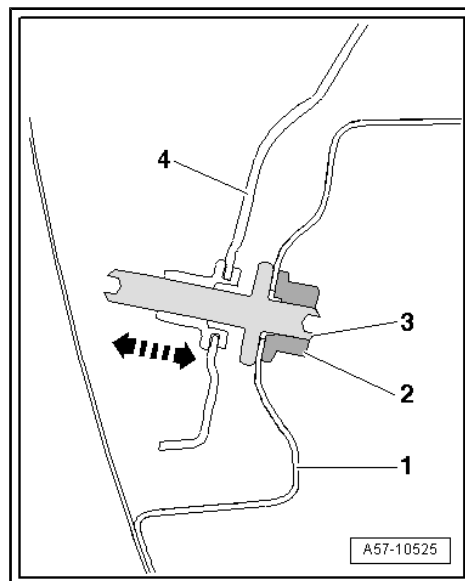


- To adjust, loosen lock nut -2- and turn adjusting pin -3- with Torx key.
- After adjusting, tighten nut to specified torque ⇒ [page 188](#).



Note

Turning adjuster screw to the right moves top edge of window outwards.



Height adjustment

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- Adjustment - roof area at C-pillar

- For bringing top edge of door window into contact with seal in roof area (rear)
- Accessible through holes at bottom edge of door; it is not necessary to remove door trim

-1- Window regulator

-2- Adjuster screw

- For height adjustment, turn adjuster screw -2- with a 5 mm Allen key

• 1 turn = 1 mm adjustment

B - Adjustment - roof area at C-pillar

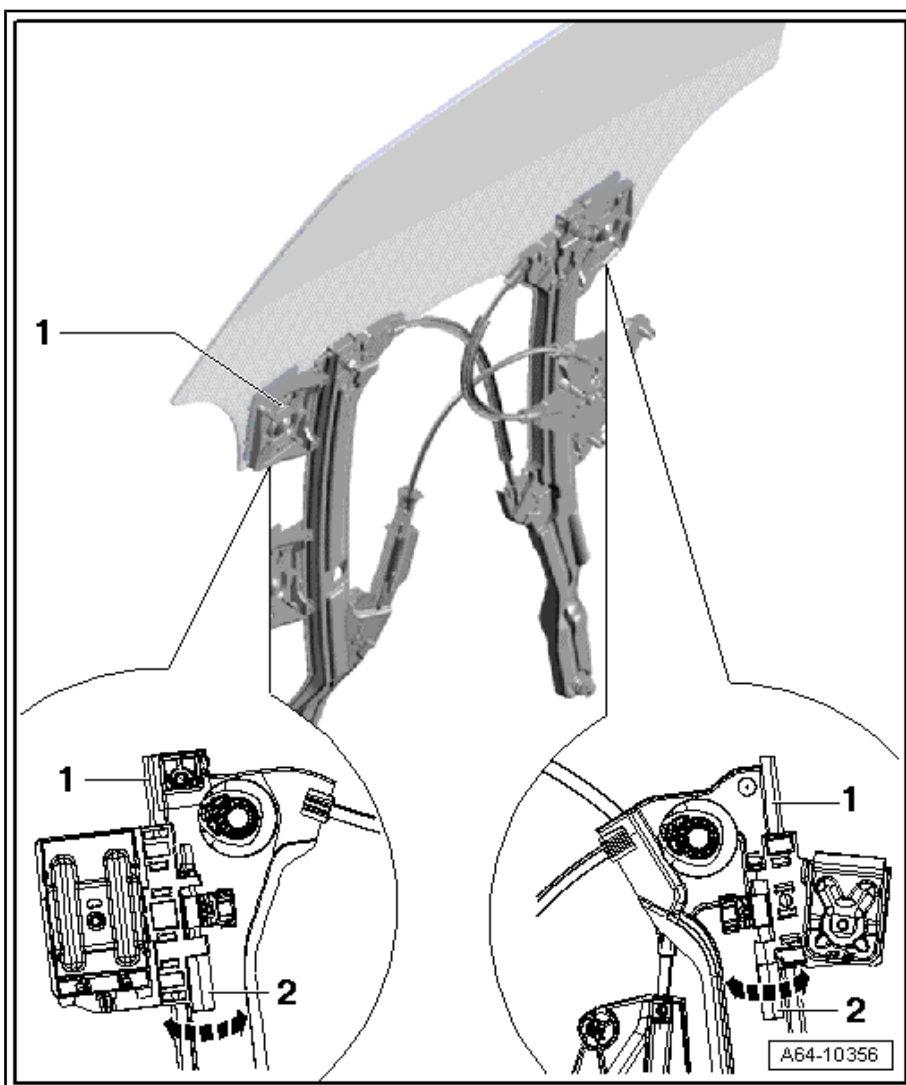
- For bringing top edge of door window into contact with seal in roof area (front)
- Accessible through holes at bottom edge of door; it is not necessary to remove door trim

-1- Window regulator

-2- Adjuster screw

- To adjust height, use Allen key, long reach - T10058- or hexagon key (5 mm) to turn adjuster screw -2-.

• 1 turn = 1 mm adjustment



66 – Exterior equipment

1 Radiator grille/front trim panel

⇒ ["1.1 Exploded view - radiator grille", page 191](#)

⇒ ["1.2 Removing and installing radiator grille", page 192](#)

⇒ ["1.3 Removing and installing bracket for ambient temperature sensor G17", page 193](#)

1.1 Exploded view - radiator grille

1 - Brand logo

- ☐ Cannot be removed without being damaged irreparably

2 - Trim strip

- ☐ For radiator grille

3 - Mounting (right-side)

- ☐ For parking aid sender
- ☐ Removing and installing ⇒ Electrical system; Rep. gr. 94 ; Parking aid; Overview - parking aid

4 - Front centre right parking aid sender - G253-

- ☐ Removing and installing ⇒ Electrical system; Rep. gr. 94 ; Parking aid; Removing and installing front parking aid senders

5 - Radiator grille

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

6 - Speed nut

7 - Bolt

- ☐ 1.5 Nm

8 - Bolt

- ☐ 4 Nm

9 - Bolt

- ☐ 1.5 Nm

10 - Bracket

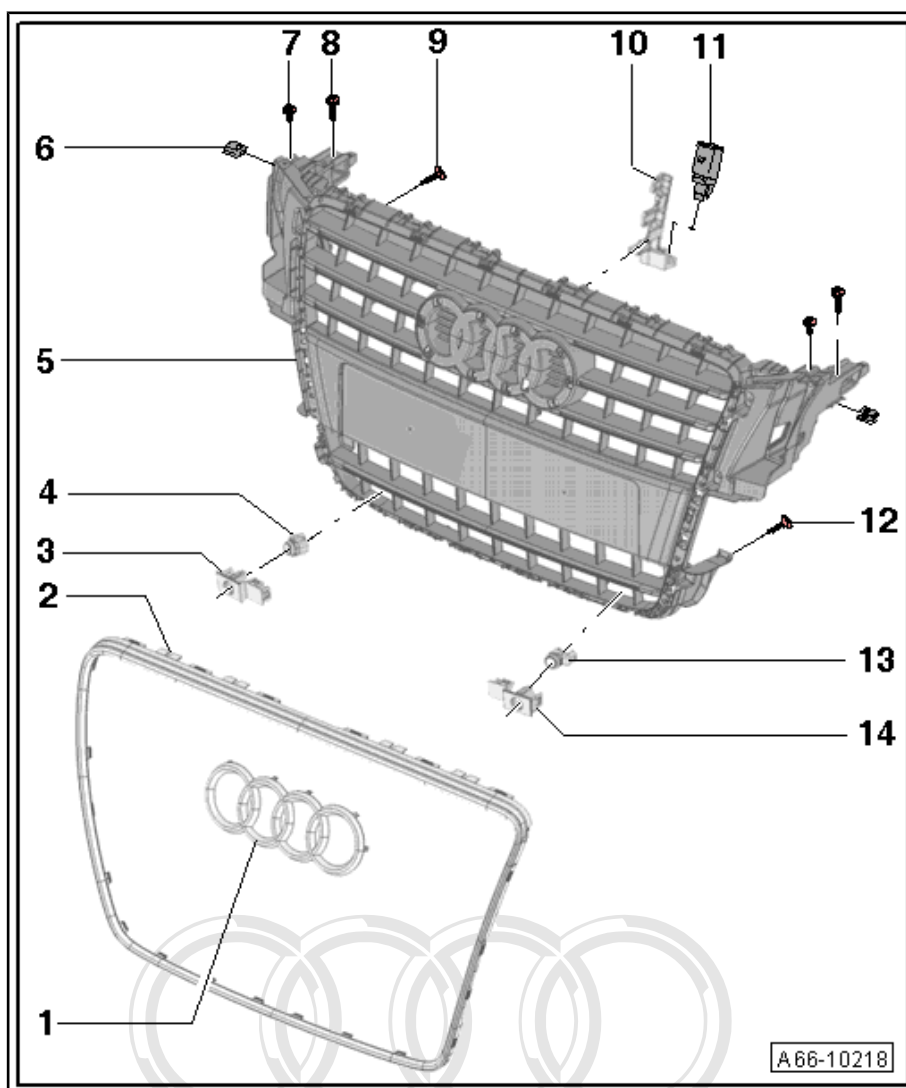
- ☐ For ambient temperature sensor - G17-
- ☐ Removing and installing ⇒ [page 193](#)

11 - Ambient temperature sensor - G17-

- ☐ Removing and installing ⇒ Electrical system; Rep. gr. 90 ; Dash panel insert; Removing and installing ambient temperature sensor

12 - Bolt

- ☐ 1.5 Nm



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13 - Front centre left parking aid sender - G254-

- ❑ Removing and installing ⇒ Electrical system; Rep. gr. 94 ; Parking aid; Removing and installing front parking aid senders

14 - Mounting (left-side)

- ❑ For parking aid sender
- ❑ Removing and installing ⇒ Electrical system; Rep. gr. 94 ; Parking aid; Overview - parking aid

1.2 Removing and installing radiator grille

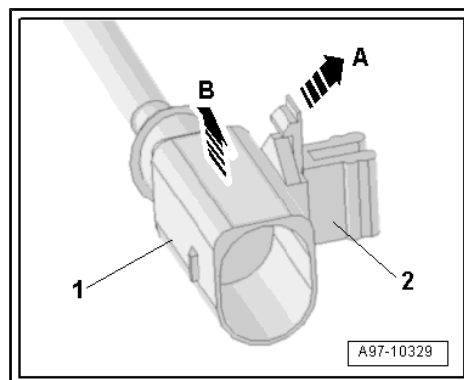
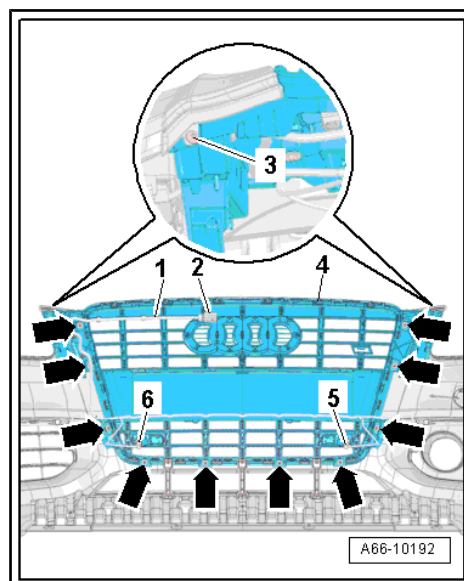
Removing

- Remove bumper cover ⇒ [page 137](#) .
- Remove impact absorber ⇒ [page 141](#) .
- Remove bolts -3-.
- If fitted, move clear electrical wiring harness for parking aid senders on radiator grille by cutting cable tie -1-.
- Detach electrical connector -2- from bracket.



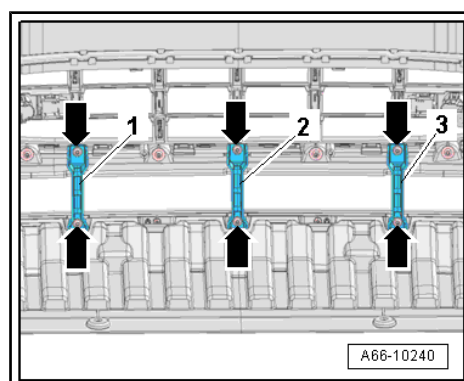
- To do so, press catch in direction of -arrow A- and pull electrical connector -1- out of bracket -2- in direction of -arrow B-.

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Audi S5:

- Remove bolts -arrows-.
- Detach reinforcement struts -1 ... 3-.



All vehicles:

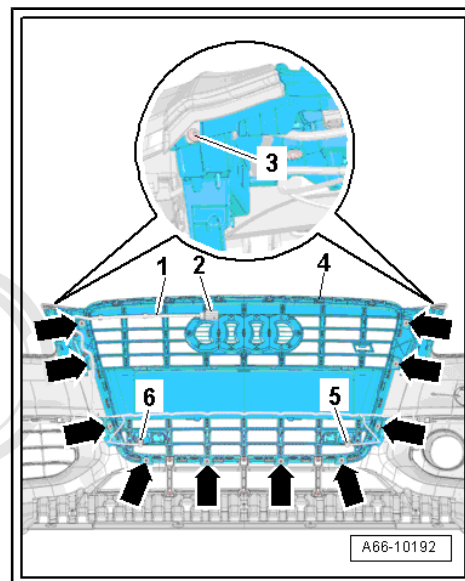
- Unplug electrical connectors -5- and -6- from parking aid senders.
- Unscrew bolts -arrows- and detach radiator grille -4- from bumper cover.
- If fitted, remove mounting for parking aid sender by releasing retaining clips and detaching mounting.

Installing

- Tightening torques ➔ [page 191](#) and ➔ [page 135](#)

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

- Install impact absorber ➔ [page 141](#) .
- Install bumper cover ➔ [page 137](#) .



1.3 Removing and installing bracket for ambient temperature sensor - G17-

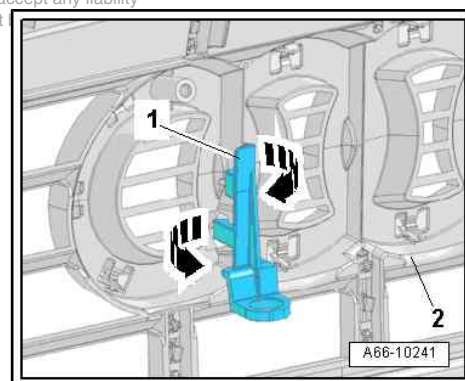
Removing

- Remove ambient temperature sensor - G17- ➔ Electrical system; Rep. gr. 90 ; Dash panel insert; Removing and installing ambient temperature sensor .
- Release retaining clips -arrows- and detach bracket -1- from radiator grille -2-.

Installing

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

- Position bracket at radiator grille and press on until it engages audibly.
- Install ambient temperature sensor - G17- ➔ Electrical system; Rep. gr. 90 ; Dash panel insert; Removing and installing ambient temperature sensor .



2 Spoilers

⇒ "2.1 Removing and installing spoiler", page 194

⇒ "2.2 Removing and installing spoiler (bottom)", page 195

2.1 Removing and installing spoiler



Note

Rear spoiler is bonded to rear lid and must be renewed.

1 - Rear spoiler

❑ Removing

- Heat bonding area on rear lid with a hot air blower and pull spoiler off, starting at the outer edge and working inwards.
- Cut back adhesive bead.
- Completely remove any adhesive left behind from adhesive tape.

❑ Installing ⇒ page 194 .

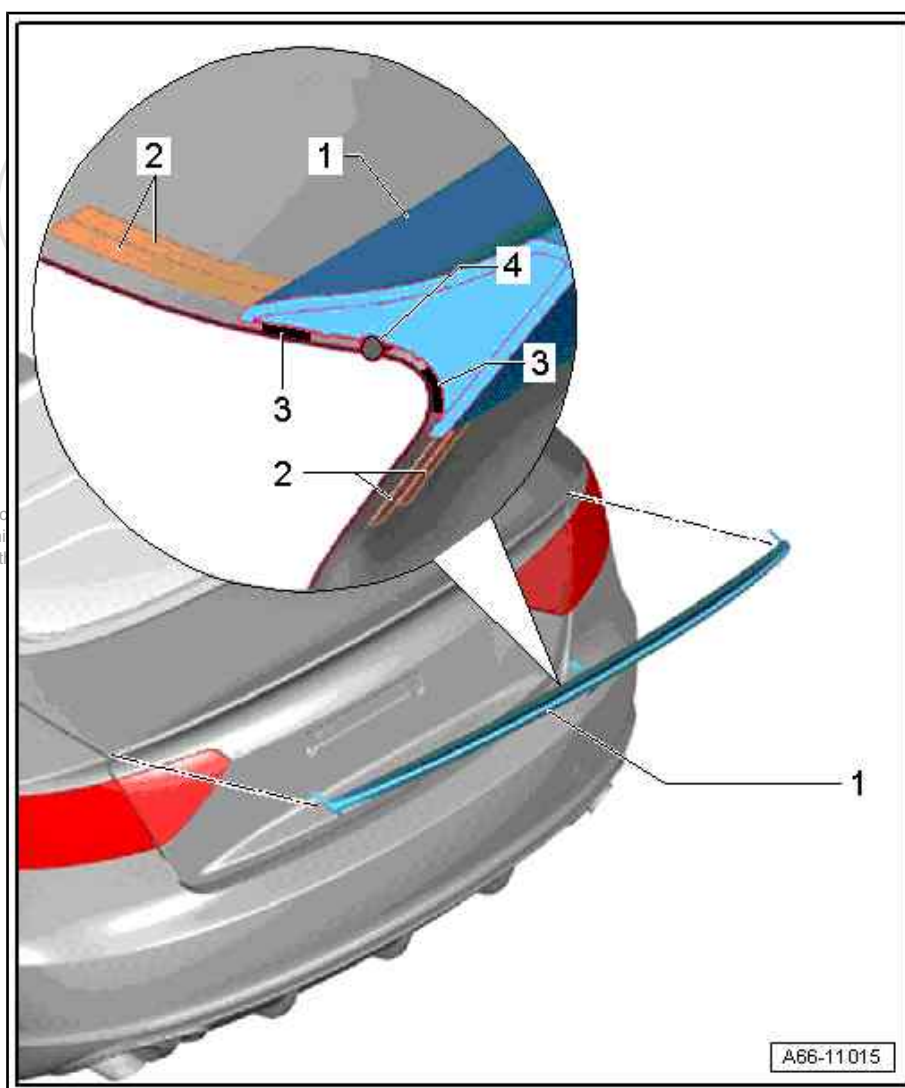
2 - Removal aid for protective film backing

3 - Double-sided adhesive tape

- ❑ Fit spoiler in position before using removal aids to pull off protective film backing.

4 - Adhesive bead

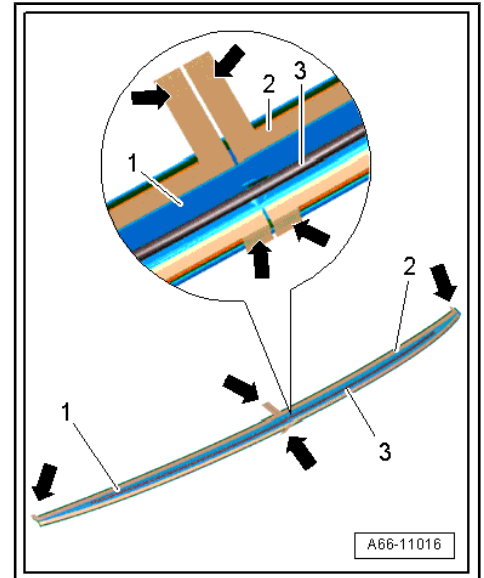
- ❑ Apply centrally between the two positioning holes (4 mm Ø ± 2 mm).



Installing rear spoiler

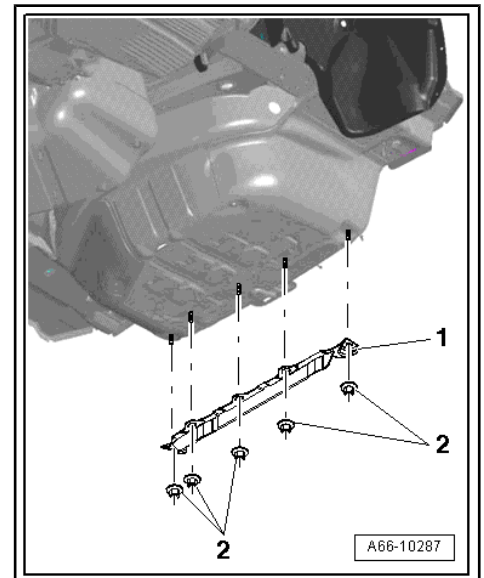
- Clean bonding area on rear spoiler and rear lid with cleaning fluid - D 009 401 04- .
- Apply primer - D 355 205 A2- to area of adhesive tapes on rear lid using applicator - D 009 500 25- and allow to flash off.

- Apply 1-component MS adhesive - D 172 090 A2- (4 mm $\varnothing$ $\pm$ 2 mm) between the two outer positioning holes and at equal distance from adhesive tapes.
- Fit spoiler in correct position on rear lid with protective film backing still attached to adhesive tapes.
- Use removal aids to pull protective film backing out from between rear lid and rear spoiler.
- Press rear spoiler on firmly.
- Note minimum drying time (6 hours).



2.2 Removing and installing spoiler (bottom)

- Unscrew nuts -2- and detach spoiler -1- from spare wheel well -3-.
- Tighten nut to 2 Nm.



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3 Strips / trim panels / extensions

⇒ ["3.1 Exploded view - heat shield", page 196](#)

⇒ ["3.2 Exploded view - trim panel for B-pillar", page 198](#)

⇒ ["3.3 Removing and installing trim strip", page 199](#)

⇒ ["3.4 Removing and installing sill panel trim", page 200](#)

⇒ ["3.5 Removing and installing side member trim", page 201](#)

⇒ ["3.6 Removing and installing water deflector strip", page 202](#)

3.1 Exploded view - heat shield

Floor (front) ⇒ [page 196](#)

Floor (rear) ⇒ [page 196](#)

Floor (front)

1 - Heat shield (front)

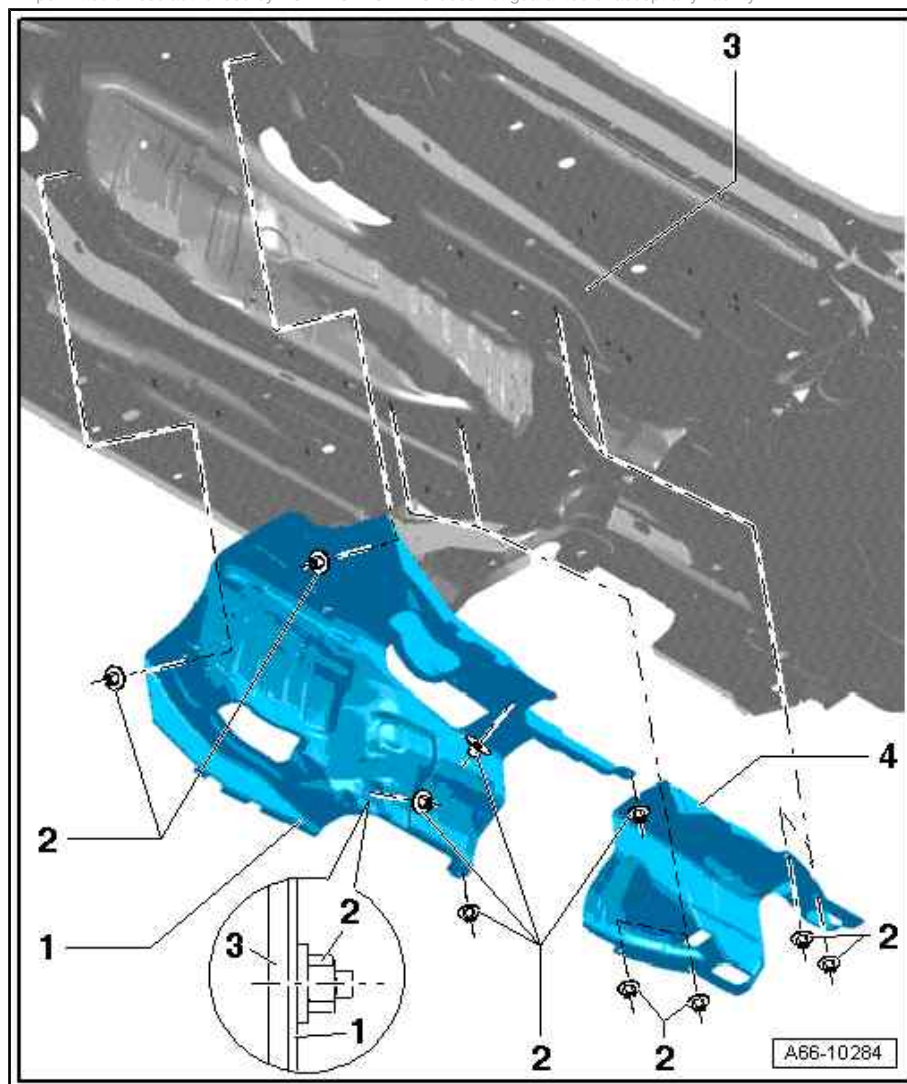
2 - Clamping washer

- When removing, unscrew; when installing, only press in clamping washers.

3 - Floor panel

4 - Heat shield (centre)

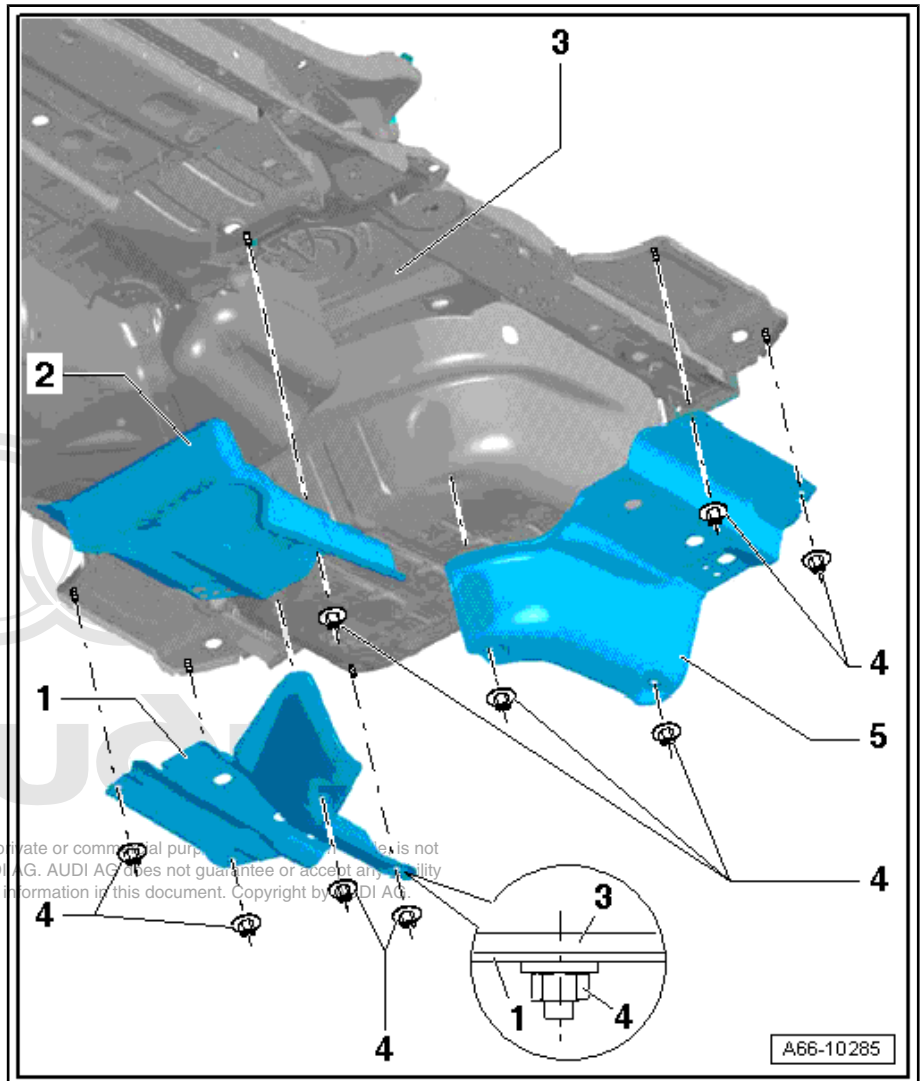
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Floor (rear)

- 1 - Heat shield (right-side)
- 2 - Heat shield for rear silencer
- 3 - Rear end of vehicle
- 4 - Clamping washer
 - ☐ When removing, unscrew; when installing, only press in.
- 5 - Heat shield (left-side)

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3.2 Exploded view - trim panel for B-pillar

1 - Trim panel for B-pillar

□ Removing:

- Unclip trim -5- at side.
- Unscrew bolts -6- and pull out trim panel downwards from underneath roof trim strip.

2 - Bolt

□ 2 Nm

3 - Bracket

4 - Clip

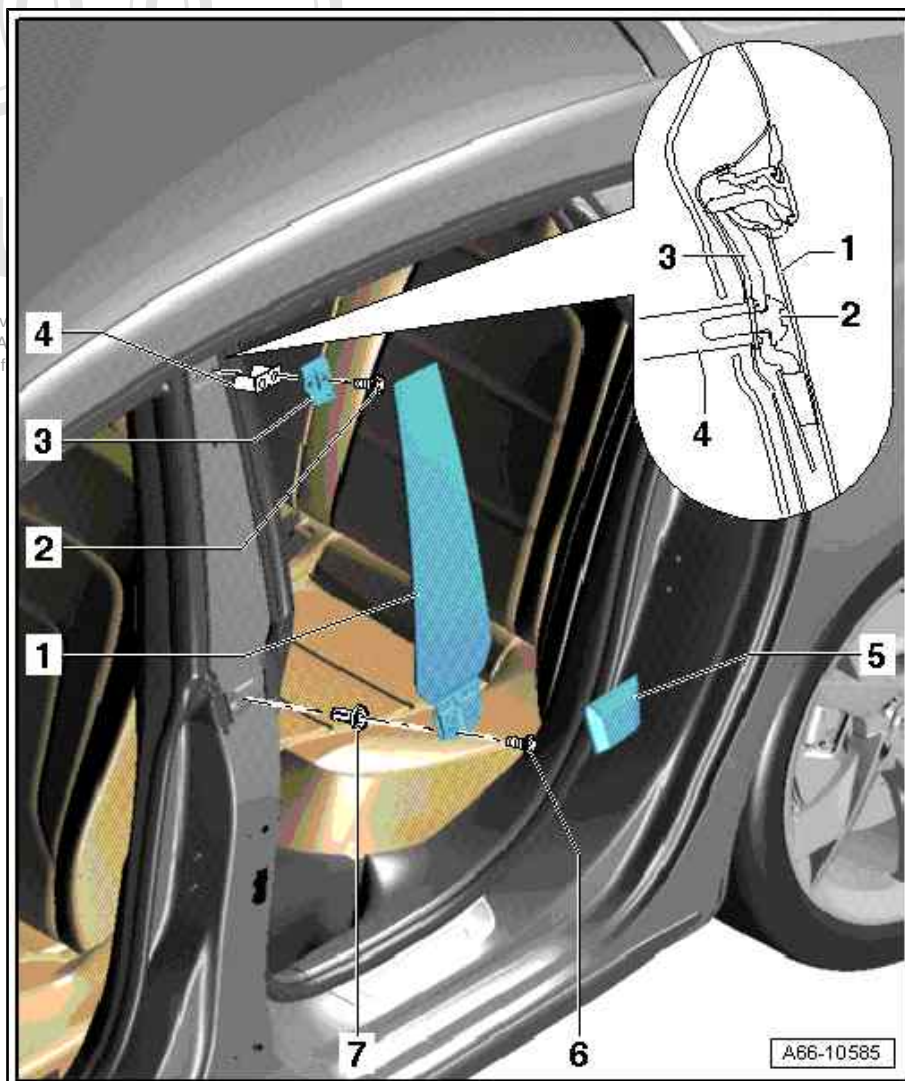
5 - Trim

□ Unclip at side

6 - Bolt

□ 3 Nm

7 - Grommet



3.3 Removing and installing trim strip

1 - Trim strip for side window

❑ Removing

- Side window removed
⇒ [page 175](#)
- Straighten all retaining tabs (6x) on trim strip (on inside of moulding) in direction of -arrows-.
- Pull trim strip off side window.

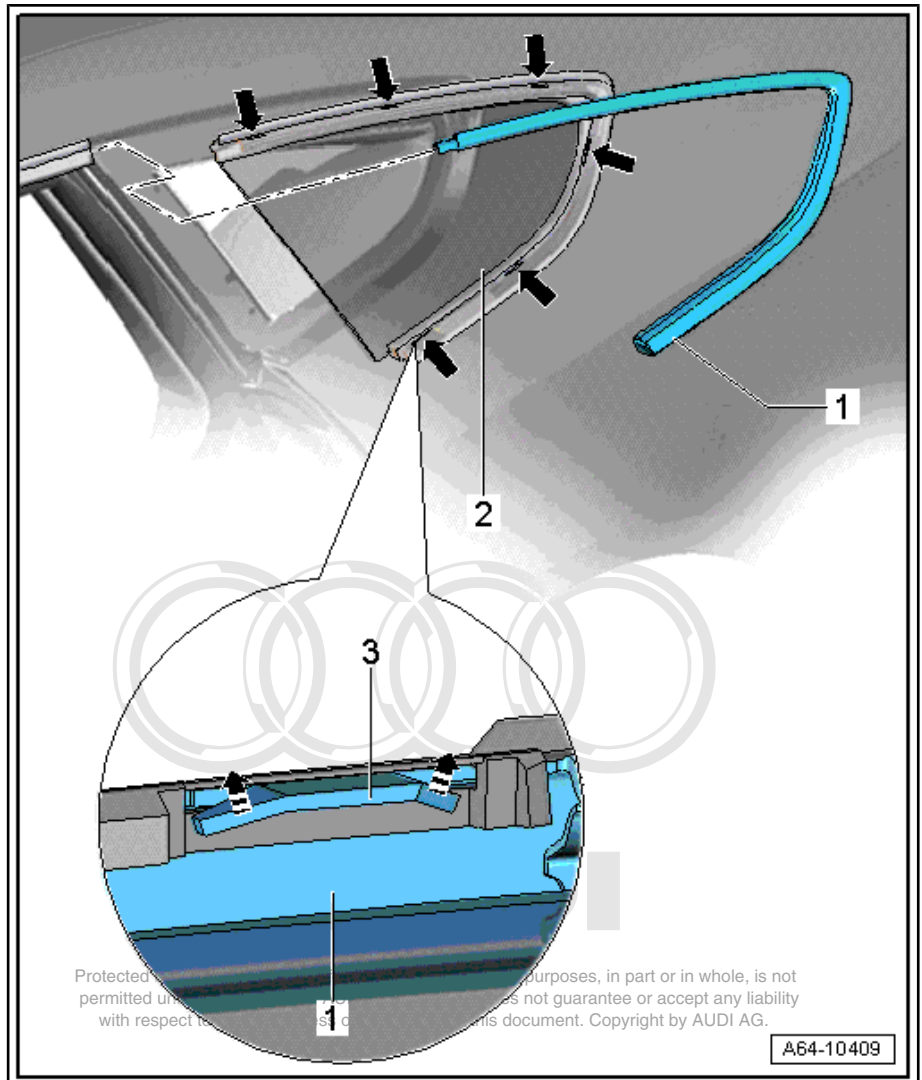
❑ Installing

- Insert trim strip in moulding of side window.
- Bend retaining tabs on inside of moulding in opposite direction of -arrows-.
- Install side window.

2 - Side window

❑ Removing ⇒ [page 175](#)

3 - Retaining tab



3.4 Removing and installing sill panel trim



Note

- ◆ The sill panel trim is secured to the side member with adhesive tape.
- ◆ It is damaged irreparably when removed.

1 - Door seal

2 - Sill panel trim (rear)

□ Removing:

- Heat sill panel trim with a hot air blower and lift off.

□ Installing:

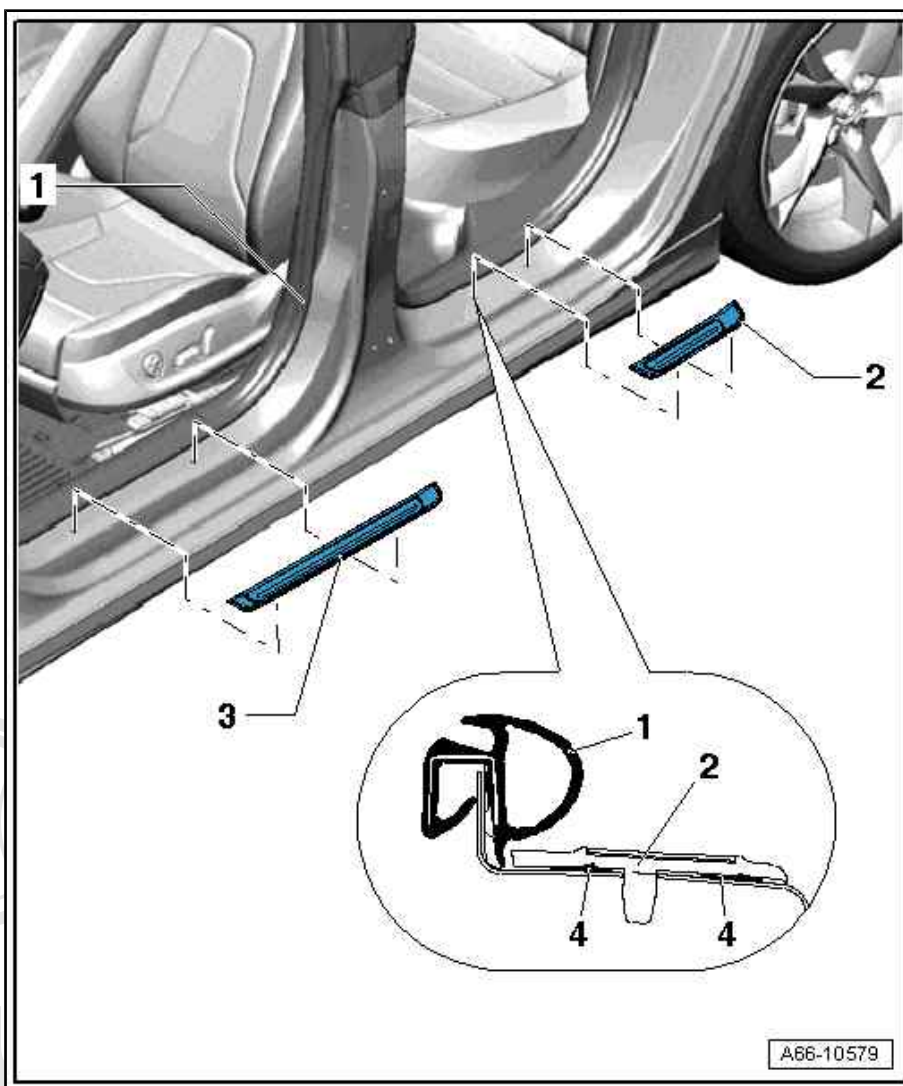
- Side member must be free of dust and grease in bonding area.
- Heat bonding surface to approx. 40° C using hot air blower.
- Peel protective film off adhesive tape.
- Insert sill panel trim with centring pins into side member and press firmly into place working from front to rear.

3 - Sill panel trim (front)

- ##### □ Removal and installation as described for sill panel trim (rear).

4 - Adhesive tape

- ##### □ Peel off protective film before mounting.



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3.5 Removing and installing side member trim

Note

- ◆ The stone deflector strip is secured additionally to the side member with adhesive tape.
- ◆ It is damaged irreparably when removed.
- ◆ When removing the stone deflector strip, the clips are also damaged irreparably and must be renewed.

1 - Stone deflector strip

☐ Removing:

- Heat bonding areas with hot air blower and gradually pull stone deflector strip off side member to the side.



Note

When the stone deflector strip is detached, the clips are pulled out of the retaining pin and must be renewed.

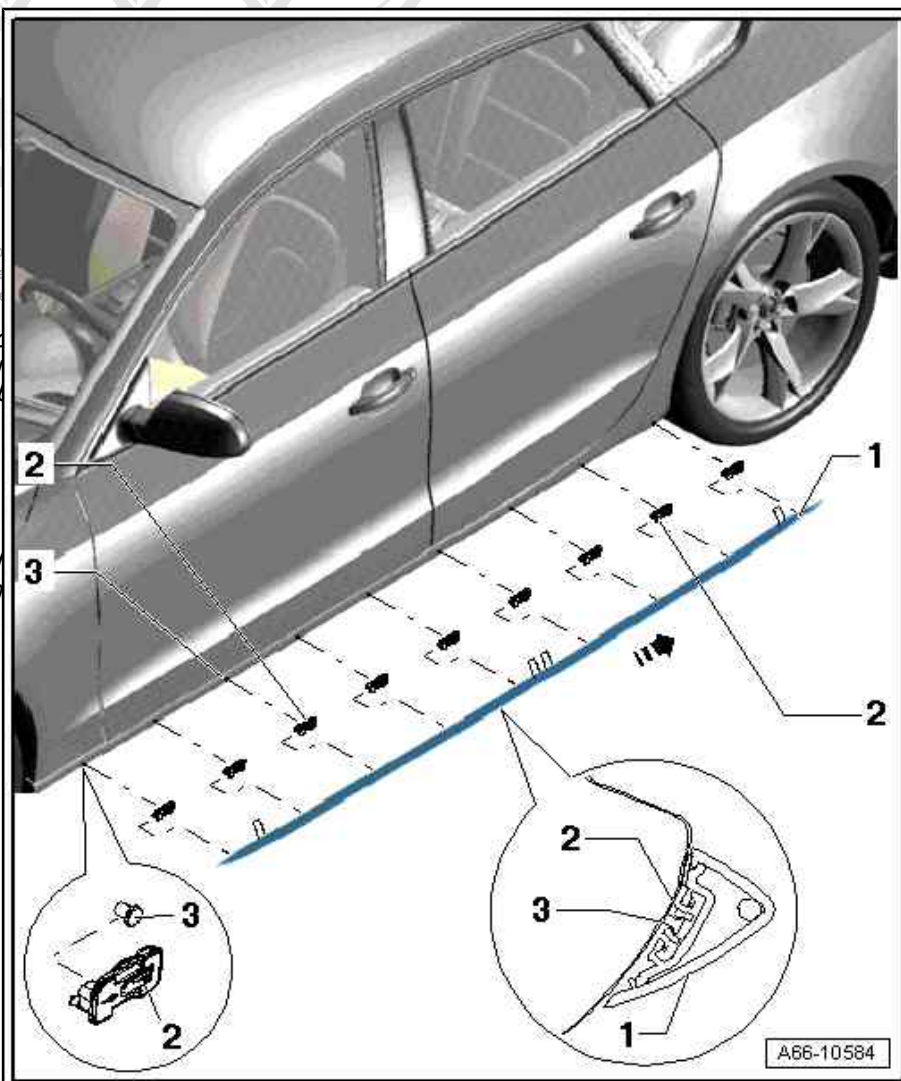
☐ Installing:



Note

Side member must be treated with primer and grease in area of adhesion.

- Kink protective film removal aids upwards so they are reachable when stone deflector strip makes contact with side member.
- Push stone deflector strip onto clips as far as stop, working from rear to front.
- Follow the order of removal for removal aids.
- Gradually press stone deflector strip firmly onto side member.



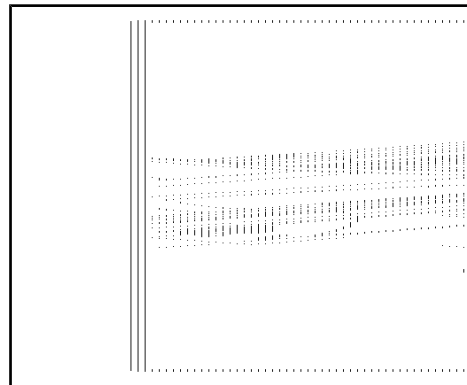
2 - Clip

- ☐ 9x
- ☐ Installation direction for clip is embossed.
- ☐ Slide clips onto studs in correct direction and engage.
- ☐ Align clips lengthwise to side member.

3 - Stud

Order of removal for removal aids

- Peel off removal aids in the sequence -1-, -2-, -3- and -4-.
- Gradually press stone deflector strip firmly onto side member.



3.6 Removing and installing water deflector strip

1 - Pop rivet

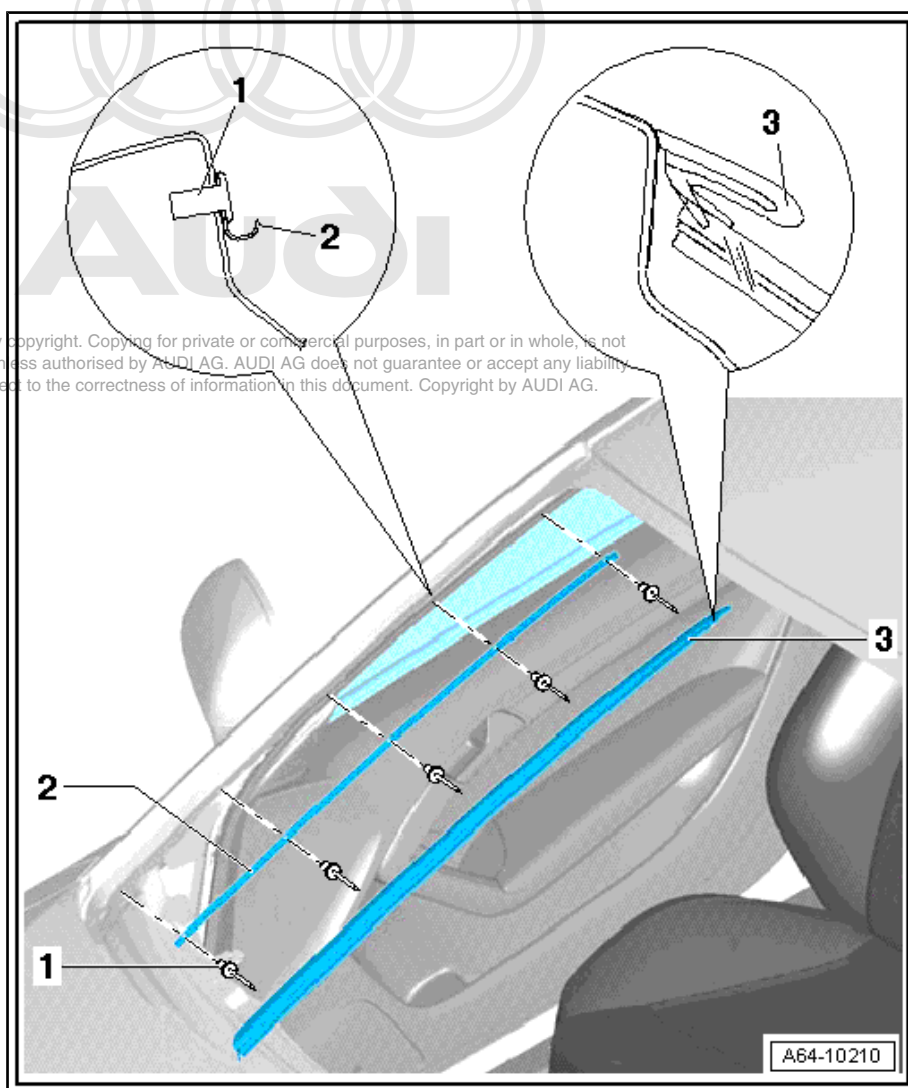
- ☐ 5x
- ☐ Start from top when riveting guide rail.

2 - Guide rail

- ☐ 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.



4 Noise insulation

⇒ "4.1 Exploded view - noise insulation", page 203

⇒ "4.2 Removing and installing noise insulation", page 204

4.1 Exploded view - noise insulation

Noise insulation (front) ⇒ page 203

Noise insulation (rear) ⇒ page 203

Noise insulation (front)

1 - Noise insulation

- ☐ Removing:
- ☐ Wheel spoiler (front) removed ⇒ page 218
- Unscrew bolts -1- and -2- and pull out noise insulation from underneath bumper and towards rear.
- ☐ When installing, noise insulation must be inserted at front beneath bumper.

2 - Bolt

- ☐ 5 Nm
- ☐ 2x

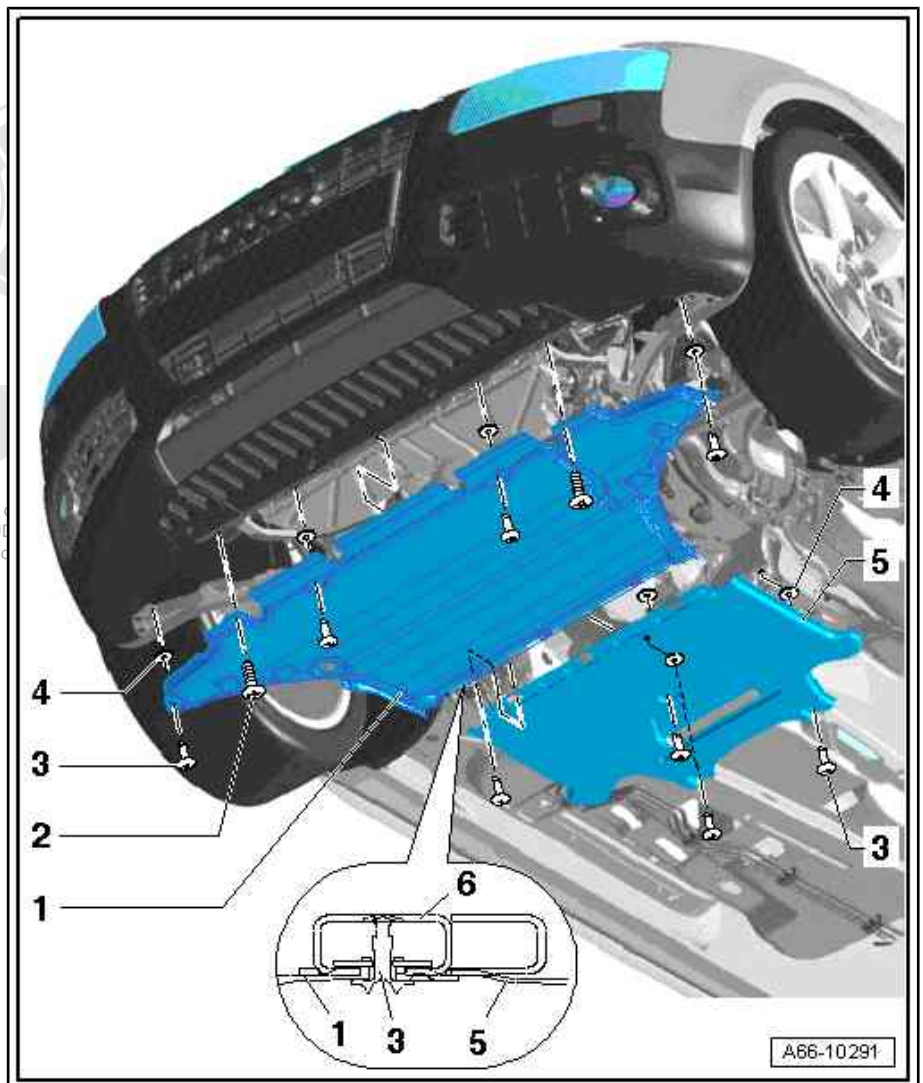
3 - Quick-release fastener

- ☐ To remove turn 180° anti-clockwise
- ☐ When installing, fastener must engage when turned.

4 - Washer

5 - Noise insulation (rear)

6 - Lock carrier



Noise insulation (rear)

1 - Noise insulation (rear)

- ☐ Release the three rear quick-release fasteners at noise insulation (front).
- ☐ Release quick-release fasteners -6- and pull out noise insulation to rear.

2 - Cross brace

3 - Gearbox cross member

4 - Speed nut

- ☐ Push into gearbox cross member, as shown

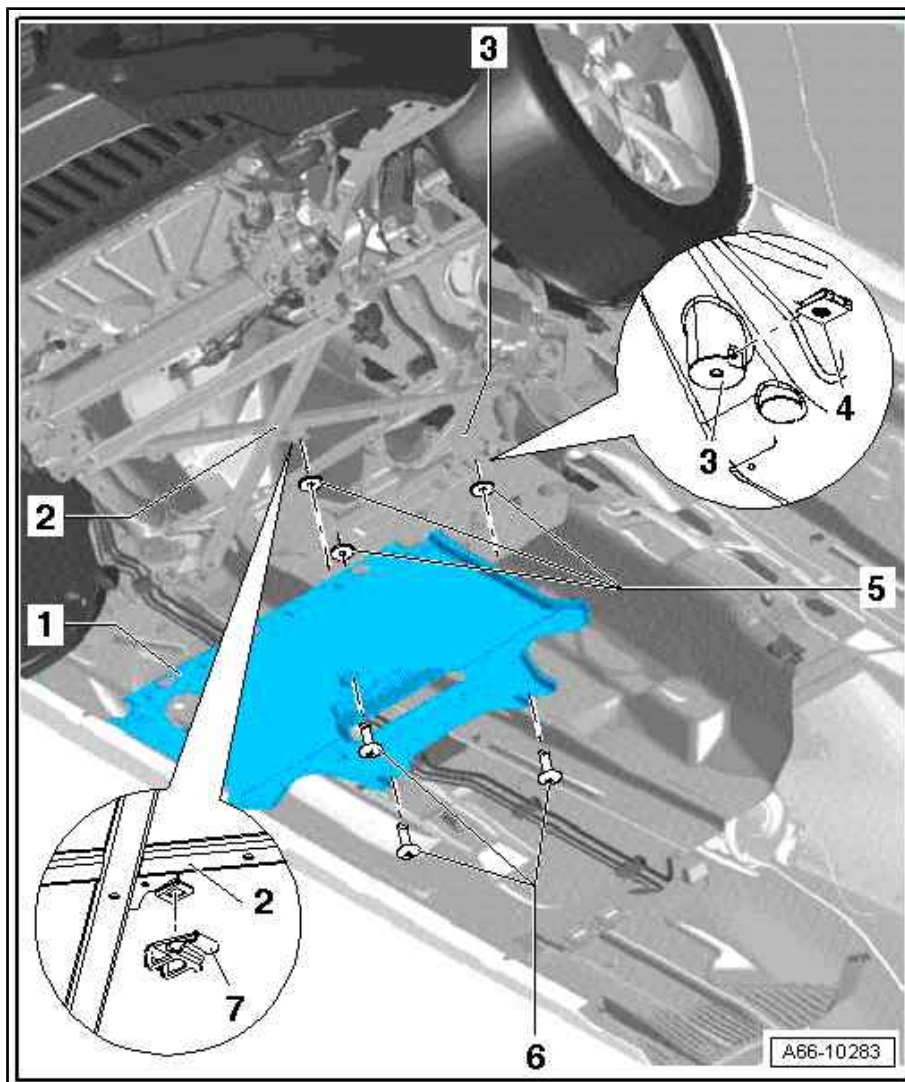
5 - Washer

6 - Quick-release fastener

- ☐ To remove turn 180° anti-clockwise
- ☐ When installing, fastener must engage when turned.

7 - Speed nut

- ☐ Push into cross brace from side.



4.2 Removing and installing noise insulation

The procedure for removing and installing the noise insulation is described in the exploded view [⇒ page 203](#).

5 Underbody trim

⇒ ["5.1 Exploded view - underbody trim", page 205](#)

⇒ ["5.2 Exploded view - tunnel cross-piece", page 207](#)

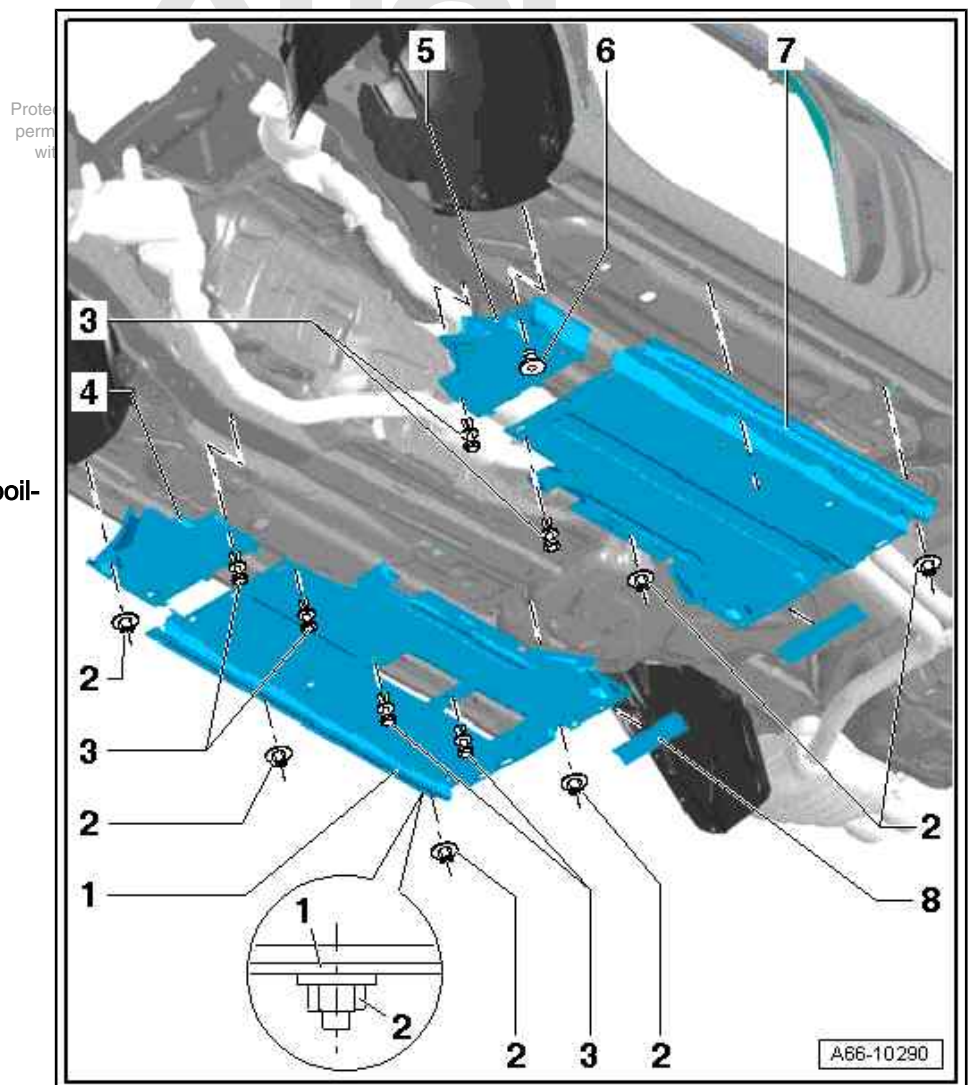
5.1 Exploded view - underbody trim

Underbody trim (front) ⇒ [page 205](#)

Underbody trim (rear) ⇒ [page 205](#)

Underbody trim (front)

- 1 - Cd panel (right-side)
- 2 - Nut
 - 7x (left-side)
 - 2 Nm
- 3 - Fastener
- 4 - Cd panel (front right)
- 5 - Cd panel (front left)
- 6 - Nut
 - 8x (right-side)
 - 2 Nm
- 7 - Cd panel (left-side)
- 8 - Floor-extension plate spoiler



Underbody trim (rear)

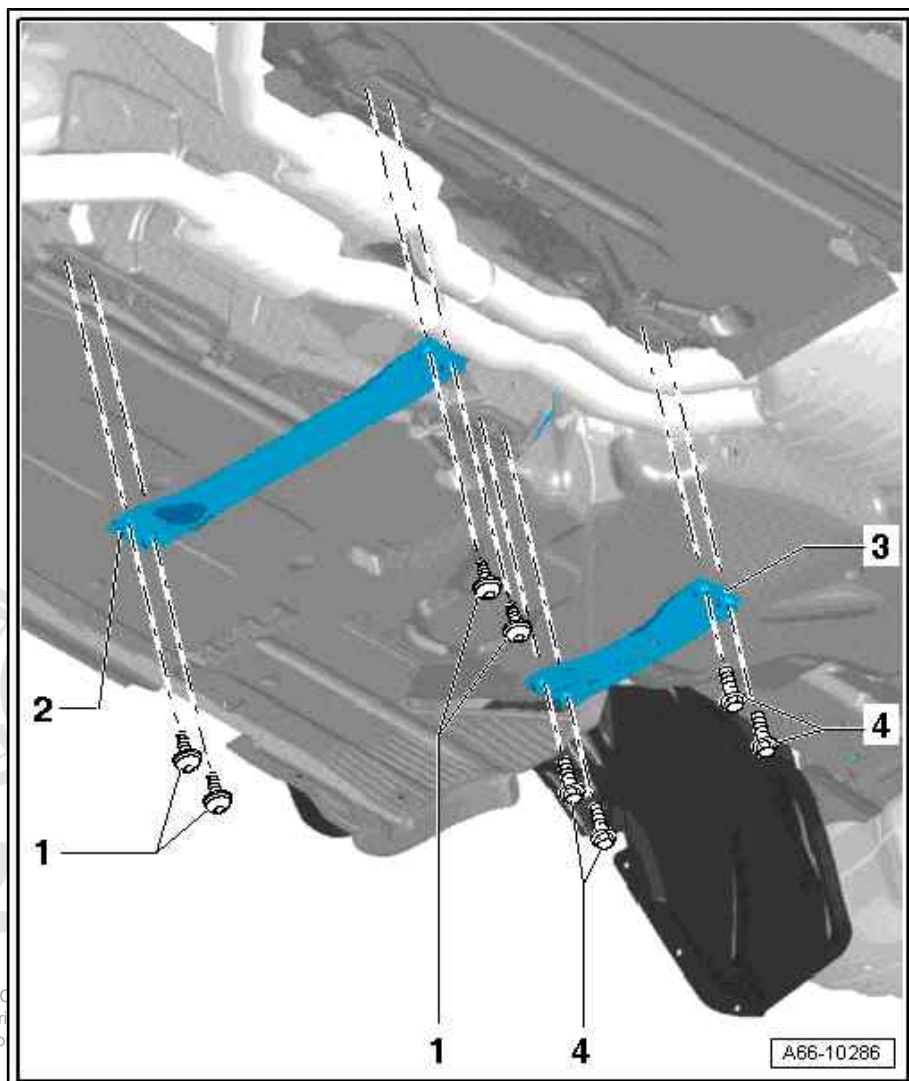
-

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5.2 Exploded view - tunnel cross-piece

- 1 - Bolt
 - 55 Nm
- 2 - Cross member (front)
- 3 - Cross member (rear)
 - With integrated spoiler
- 4 - Bolts
 - 55 Nm

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6 Roof strips / roof rails

⇒ "6.1 Exploded view - roof trim strip", page 208

6.1 Exploded view - roof trim strip



Note

The side window can remain installed when removing the roof trim strip.

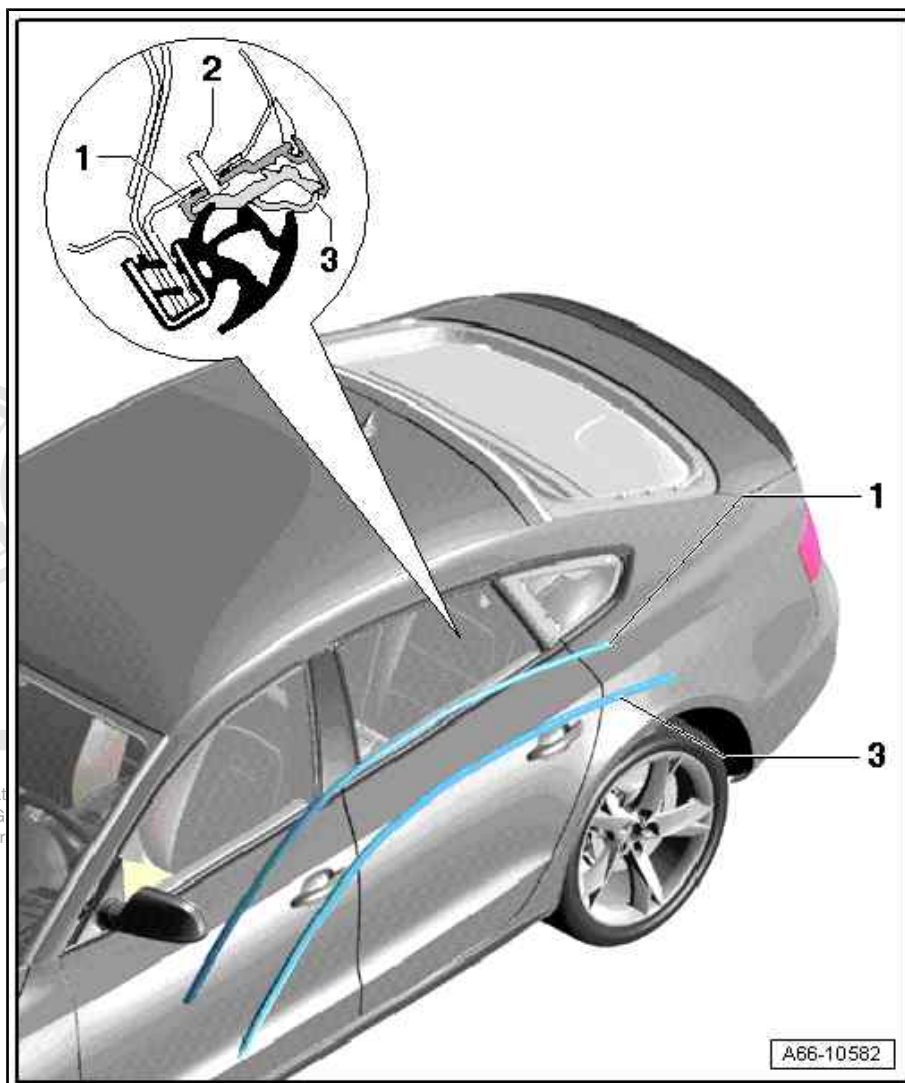
1 - Roof trim strip

- ❑ Removing:
- ❑ Trim panel for B-pillar removed ⇒ [page 198](#)
- Detach door seal from body flange in area of roof trim strip.
- Prise cover -3- out of roof trim strip.
- Drill out rivet heads and drive out rivet stems.
- Pull off roof trim strip, starting at A-pillar.
- Pull roof trim strip at C-pillar out of guide at side window in longitudinal direction ⇒ [page 209](#).

2 - Rivet

- ❑ 12x

3 - Cover

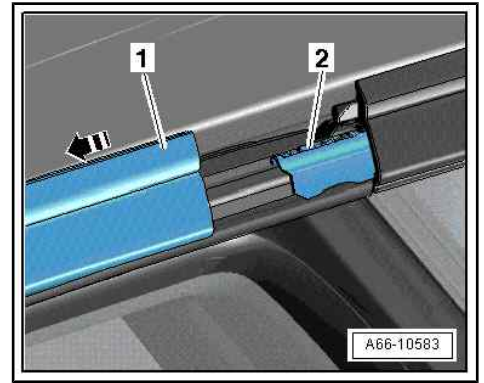


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Removing roof trim strip

- After drilling out rivet heads, first pull roof trim strip -1- out of guide -2- at side window in direction of arrow.



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7 Exterior mirrors

⇒ ["7.1 Exploded view - exterior mirror", page 210](#)

⇒ ["7.2 Removing and installing exterior mirror", page 211](#)

⇒ ["7.3 Removing and installing mirror glass", page 211](#)

⇒ ["7.4 Removing and installing mirror adjustment unit", page 212](#)

⇒ ["7.5 Removing and installing cover for mirror", page 213](#)

⇒ ["7.6 Removing and installing mirror trim", page 214](#)

7.1 Exploded view - exterior mirror

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1 - Bolt

- ☐ 3x
- ☐ 1 Nm

2 - Cover

- ☐ For mounting for mirror adjustment unit
- ☐ Removing and installing ⇒ [page 214](#)

3 - Turn signal repeater

- ☐ Removing and installing ⇒ Electrical system; Rep. gr. 94 ; Lights in exterior mirror; Removing and installing turn signal repeater bulb - L131- / -L132-

4 - Housing for exterior mirror

- ☐ Removing and installing ⇒ [page 213](#)

5 - Warning lamp for lane change assist

- ☐ Removing and installing ⇒ Electrical system; Rep. gr. 96 ; Lane change assist; Removing and installing lane change assist warning lamp in exterior mirror - K233- / -K234-

6 - Mounting for mirror adjustment unit

- ☐ Removing and installing ⇒ [page 211](#)

7 - Seal

8 - Bolt

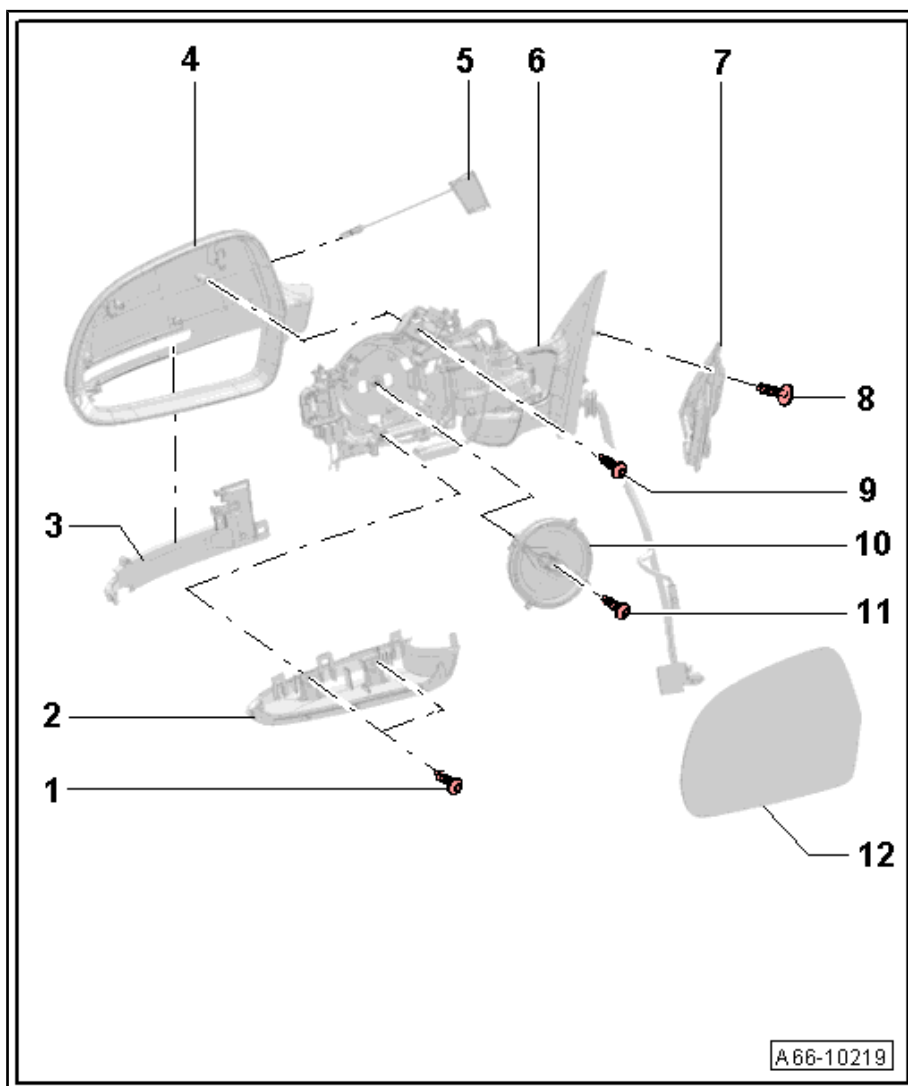
- ☐ 10 Nm

9 - Bolt

- ☐ 1 Nm

10 - Mirror adjustment unit

- ☐ Removing and installing ⇒ [page 212](#)



11 - Bolt

- 1.5 Nm

12 - Mirror glass

- Removing and installing ⇒ [page 211](#)

7.2 Removing and installing exterior mirror

Removing

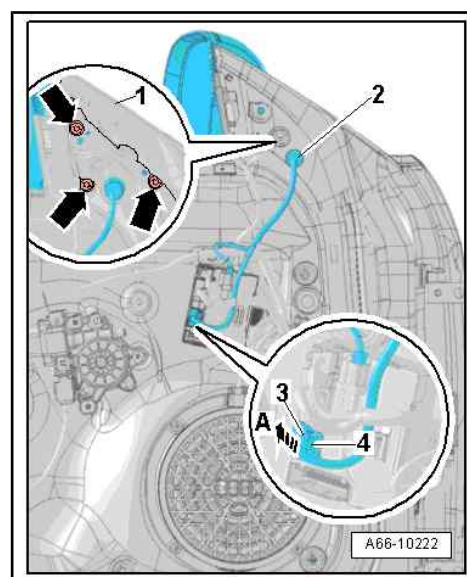
- Remove door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim (front); Removing and installing door trim (front) .
- Remove trim and bracket for treble loudspeaker ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim (front); Removing and installing treble loudspeaker trim .
- Pull 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 inner door panel in area of exterior mirror.
- Lift exterior mirror seal -1- off inner door panel and at the same time unscrew bolts -arrows-.
- Detach mounting for mirror adjustment unit and at the same time guide wiring harness out through opening in body.

Installing

- Tightening torque ⇒ [page 210](#)

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

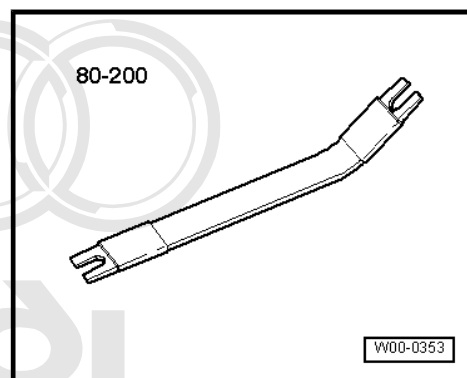
- Install exterior mirror seal.
- Install bracket and trim for treble loudspeaker ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim (front); Removing and installing treble loudspeaker trim .
- Install door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim (front); Removing and installing door trim (front) .



7.3 Removing and installing mirror glass

Special tools and workshop equipment required

- ◆ Removal lever - 80 - 200-



- ◆ Protective gloves

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Removing



WARNING

Risk of injury.

◆ *Put on protective gloves.*

- 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

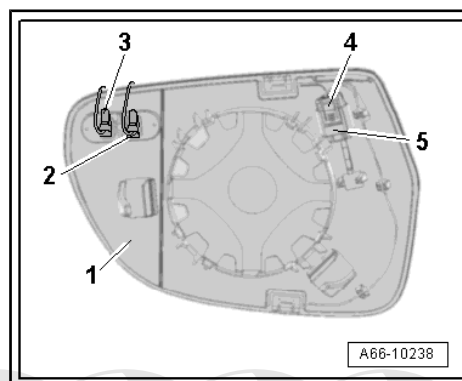
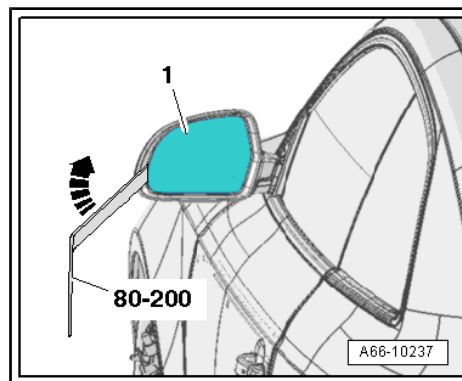
Installation is carried out in the reverse order; note the following:

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



Note

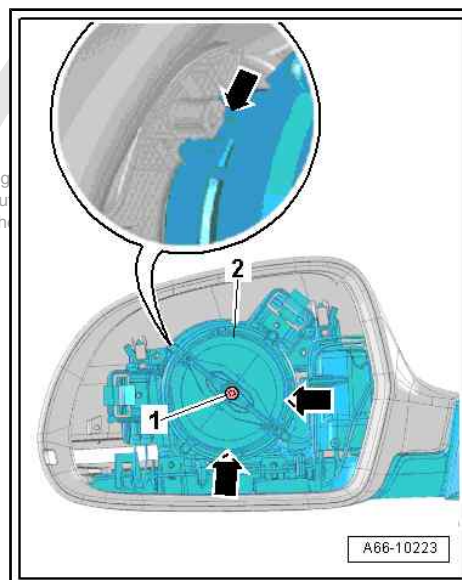
When pressing mirror glass in, only press on centre of mirror.



7.4 Removing and installing mirror adjustment unit

Removing

- Remove mirror glass ⇒ [page 211](#) .
- Unscrew bolt -1- from mirror adjustment unit -2-.
- Release retaining tabs -arrows- and detach mirror adjustment unit.



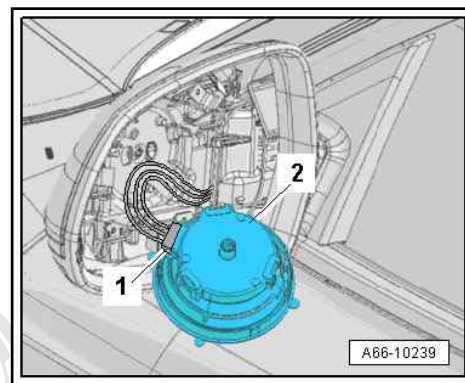
- Unplug electrical connector -1- at mirror adjustment unit -2-.

Installing

- Tightening torque ⇒ [page 210](#)

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

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



7.5 Removing and installing cover for mirror

Removing

- Remove mirror glass ⇒ [page 211](#).



Note

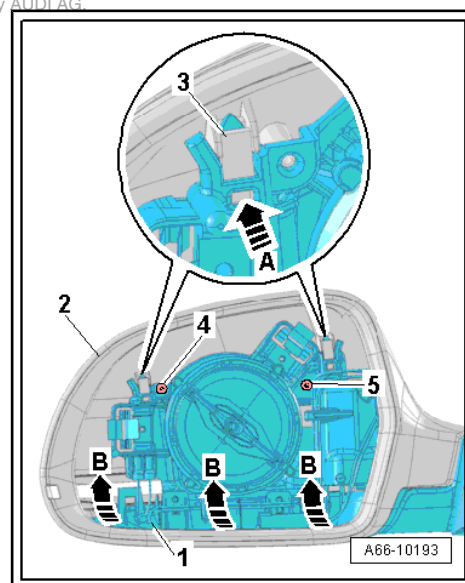
Mask the area around the mirror housing with a soft cloth to protect the paintwork.

- 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 for turn signal repeater.
- Detach turn signal repeater from exterior mirror housing ⇒ Electrical system; Rep. gr. 94 ; Lights in exterior mirror; Removing and installing turn signal repeater bulb -L131- / -L132-.

Installing

- Tightening torque ⇒ [page 210](#)

Install in reverse sequence.



7.6 Removing and installing mirror trim

Removing

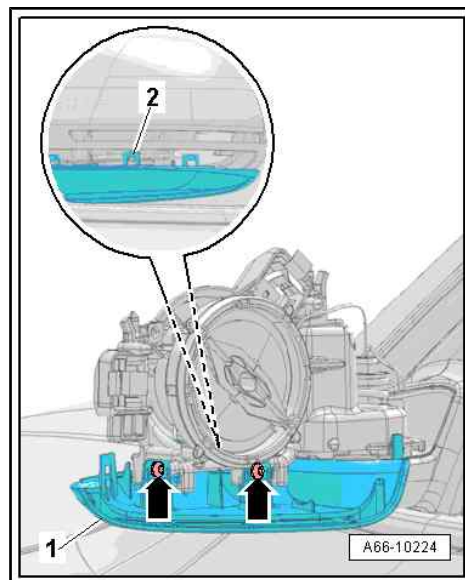
- Remove exterior mirror housing ⇒ [page 213](#) .
- Remove bolts -arrows-.
- Disengage retaining tab -2- and remove cover -1- from mounting for mirror adjustment unit.

Installing

- Tightening torque ⇒ [page 210](#)

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

- Install exterior mirror housing ⇒ [page 213](#) .



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8 Wheel housing liner

⇒ "8.1 Exploded view - wheel housing liner (front)", page 215

⇒ "8.2 Exploded view - wheel housing liner (rear)", page 216

⇒ "8.3 Exploded view - wheel spoiler (front)", page 218

⇒ "8.4 Removing and installing wheel housing liner (front)", page 218

8.1 Exploded view - wheel housing liner (front)

Wheel housing liner (front) ⇒ page 215

Drive shaft cover ⇒ page 216

Wheel housing liner (front)



Note

The front wheel housing liner consists of two parts; the parts can be removed separately.

1 - Front section of wheel housing liner

- ☐ Removing:
- ☐ Remove drive shaft cover.
- ☐ Set front wheel to appropriate angle.
- ☐ Unscrew bolts on wheel housing liner (bottom).
- ☐ Release clips, using a small screwdriver for example, and push clips sideways off retaining pins.
- Disengage wheel housing liner from wing and pull it out downwards.
- ☐ Installing: in reverse order of removal

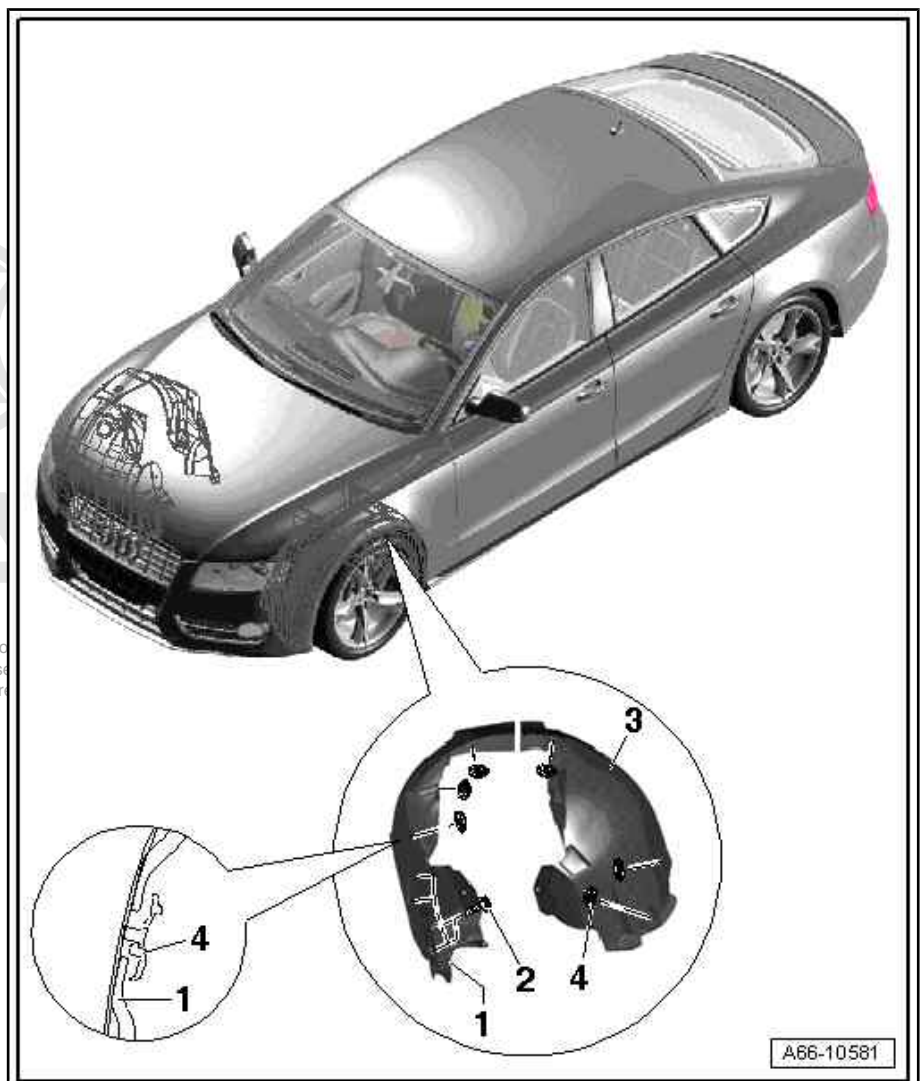
2 - Bolt

- ☐ 1.5 Nm

3 - Wheel housing liner

4 - Clip

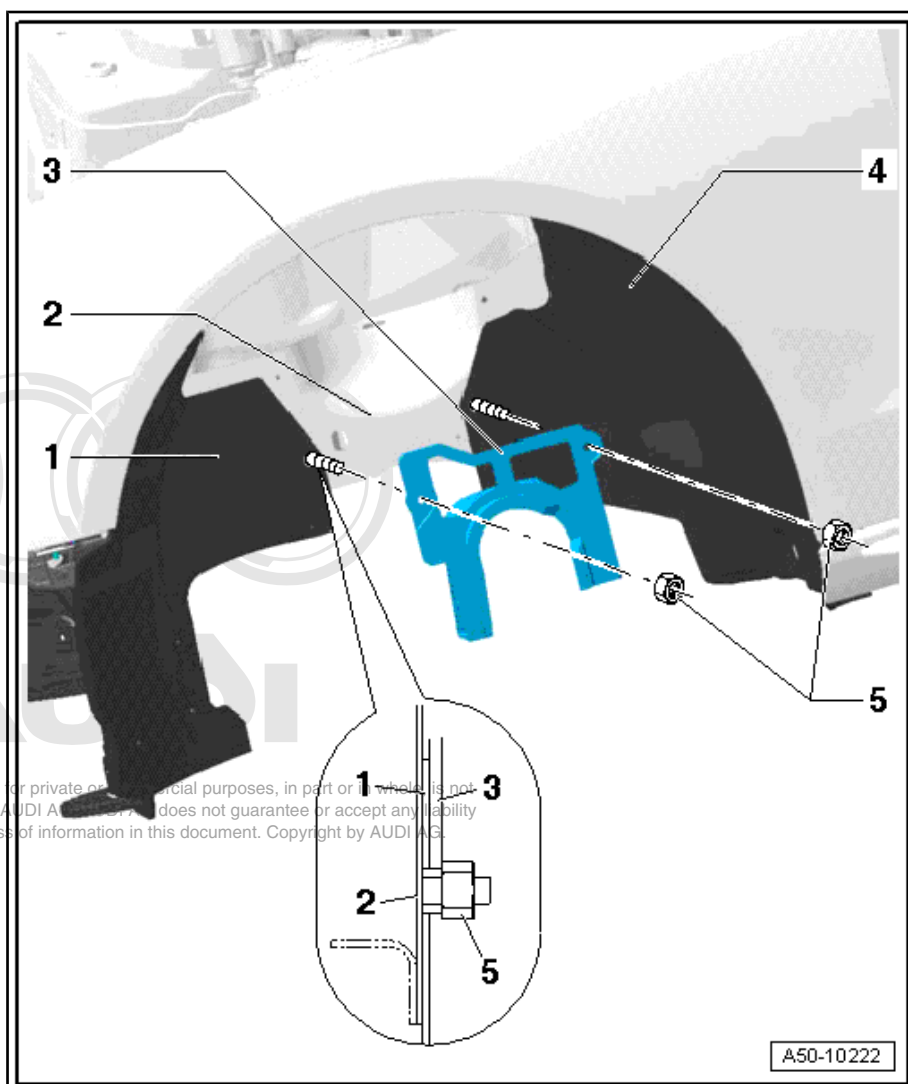
- ☐ 7x



A66-10581

Drive shaft cover

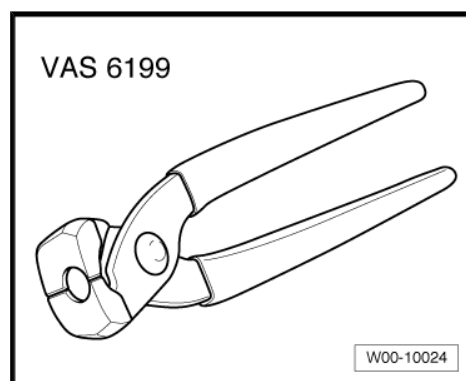
- 1 - Front section of wheel housing liner
 - 2 - Longitudinal member
 - 3 - Drive shaft cover
 - 4 - Rear section of wheel housing liner
 - 5 - Nut
- 2 Nm



8.2 Exploded view - wheel housing liner (rear)

Special tools and workshop equipment required

- ◆ Locking pliers for Phaeton steering rack - VAS 6199-



- Use to release clips at wheel housing liner.

1 - Wheel housing liner (rear)

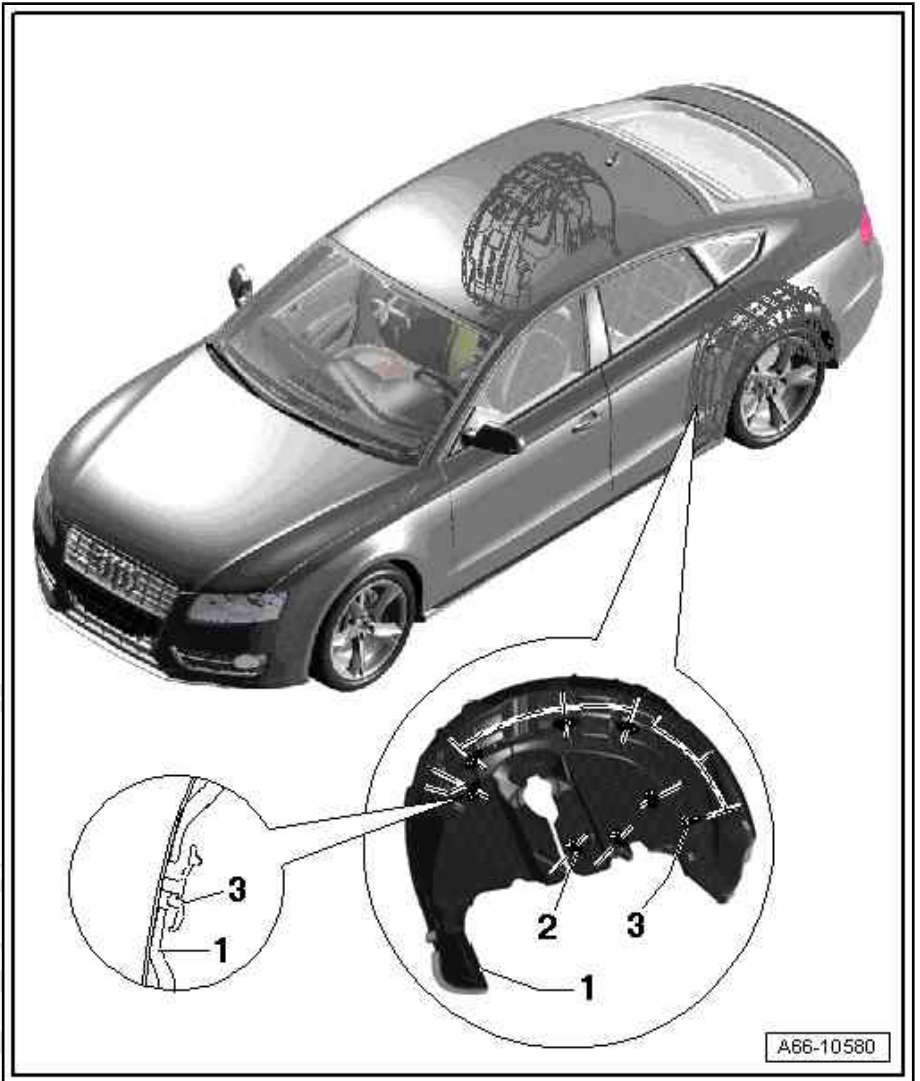
- ☐ Removing:
 - Rear wheel removed
 - Unscrew outer bolts
 - Detach clips from retaining pins ⇒ [page 217](#) .
 - Take out wheel housing liner downwards.
- ☐ Installing: in reverse order of removal

2 - Bolts

- ☐ 1.5 Nm

3 - Clip

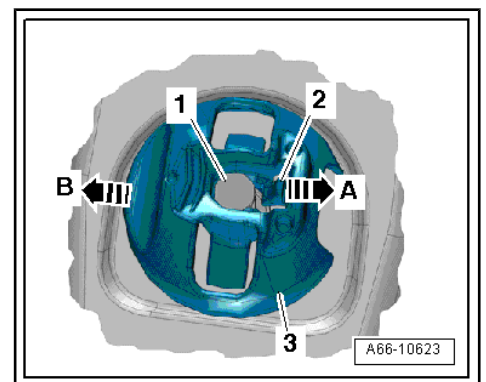
- ☐ 7x
- ☐ Release clips, using a small screwdriver for example, and push clips sideways off retaining pins.



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Releasing retaining clip

- To detach retaining clip -3-, use narrow long-nose pliers to disengage release lever -2- in direction of -arrow A- and press it off retaining pin -1- in direction of -arrow B-.
- You can also use locking pliers for Phaeton steering rack - VAS 6199- to release clips.
- Take out wheel housing liner.



8.3 Exploded view - wheel spoiler (front)

1 - Wheel spoiler

- Unscrew bolts from wheel housing liner in area of spoiler.
- Press wheel housing liner to side in area of spoiler and loosen locking pins.
- Pull wheel spoiler out from underneath wheel housing liner.

2 - Locking pin

3 - Wheel housing liner

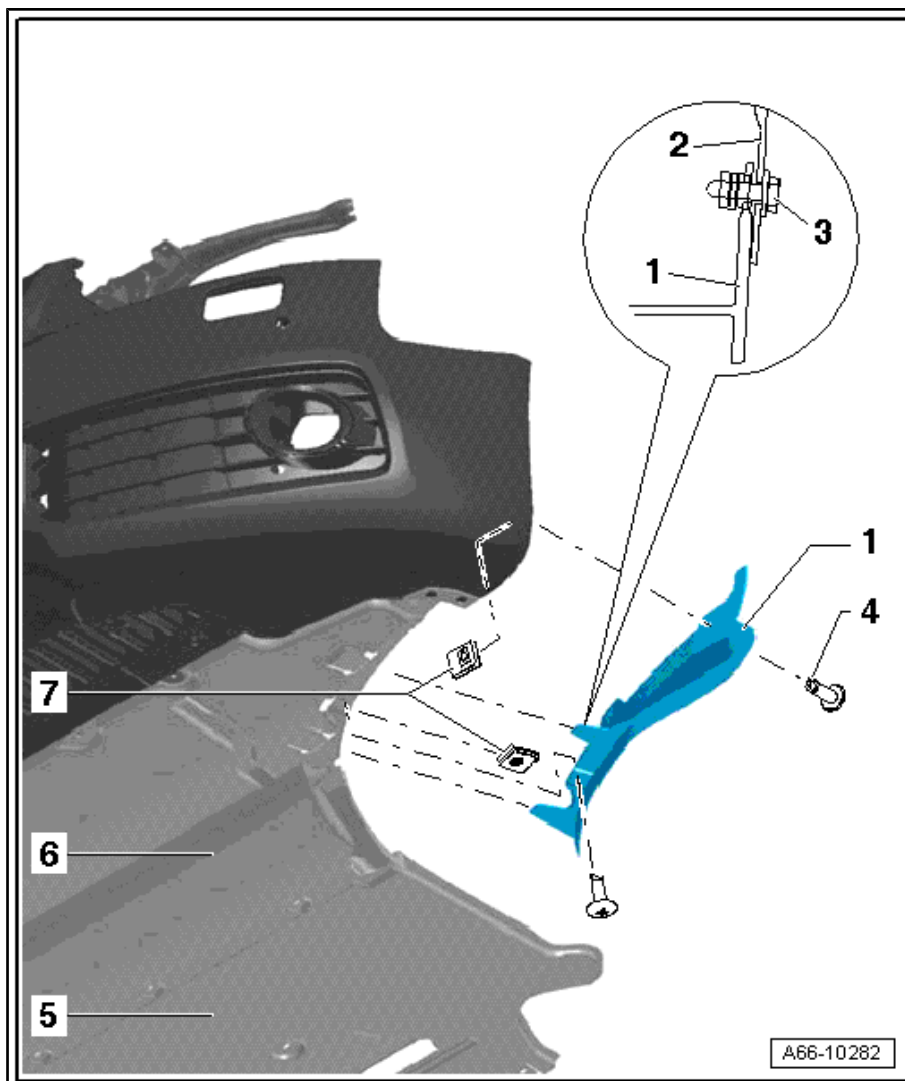
4 - Bolt

- 1.5 Nm

5 - Noise insulation (front)

6 - Speed nut

- Slide onto noise insulation

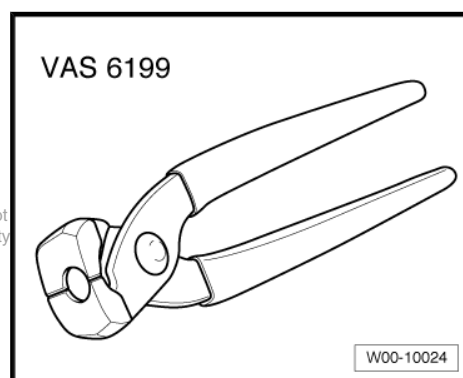


8.4 Removing and installing wheel housing liner (front)

The procedure for removing and installing the front wheel housing liner is described in the exploded view ⇒ [page 215](#).

Special tools and workshop equipment required

- ◆ Locking pliers for Phaeton steering rack - VAS 6199-

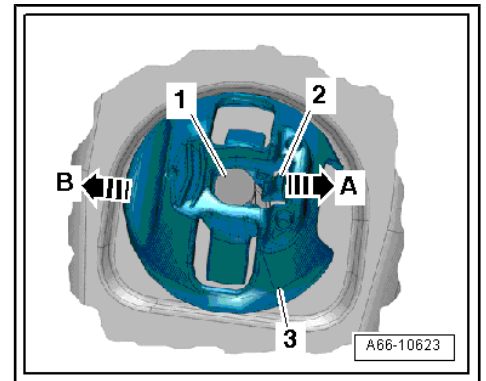


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- Use to release clips at wheel housing liner.

Releasing retaining clip

- To detach retaining clip -3-, use narrow long-nose pliers to disengage release lever -2- in direction of -arrow A- and press it off retaining pin -1- in direction of -arrow B-.
- You can also use locking pliers for Phaeton steering rack - VAS 6199- to release clips.



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9 Model badges and brand emblems

⇒ **"9.1 Renewing model badges and brand emblems", page 220**

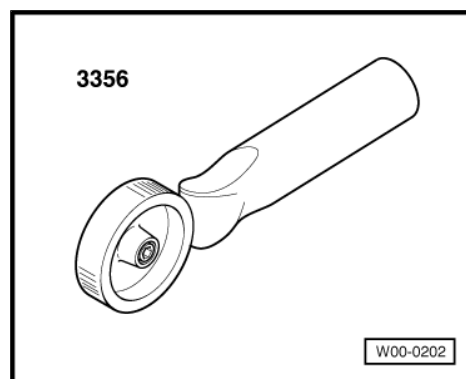
⇒ **"9.2 Dimensions for rear lid", page 220**

⇒ **"9.3 Dimensions for wing panel", page 224**

9.1 Renewing model badges and brand emblems

Special tools and workshop equipment required

- ◆ Roller - 3356-



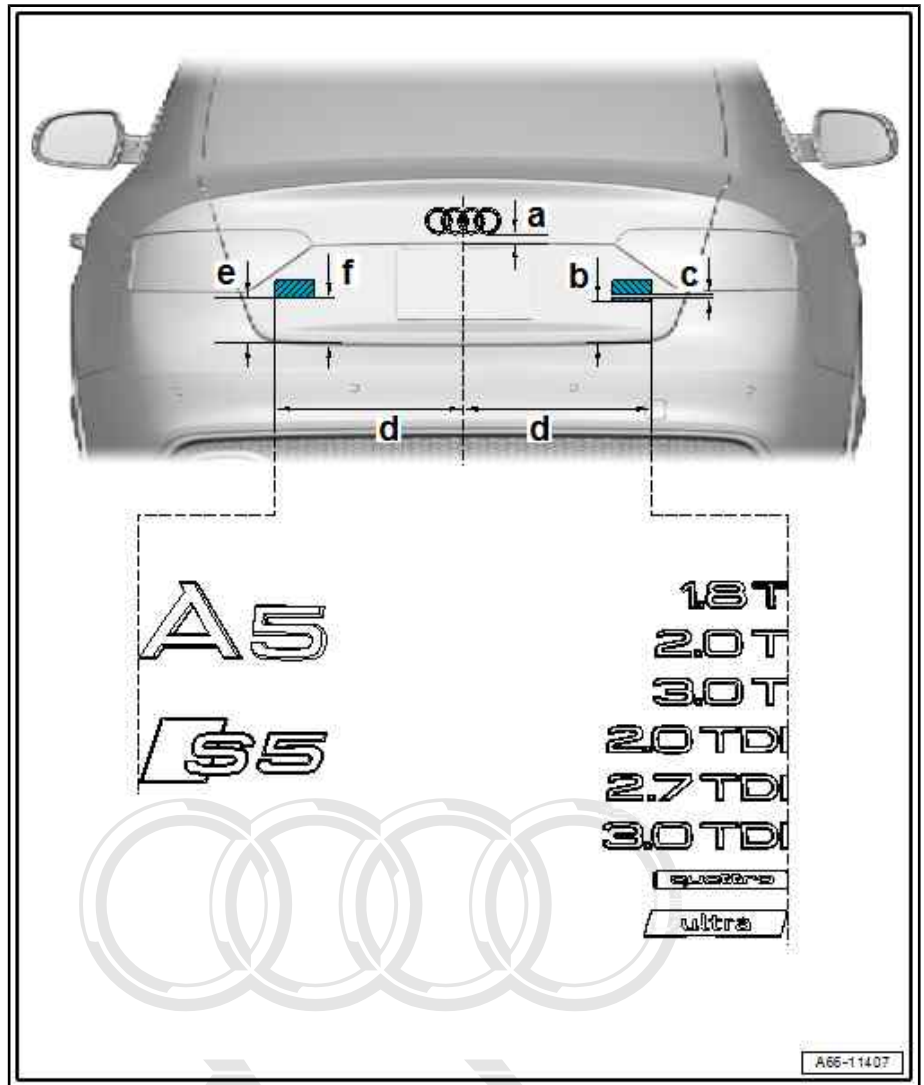
Caution

- ◆ *Any model badges and brand emblems that are removed must be renewed.*
- ◆ *The vehicle must be at room temperature before bonding on model badges and brand emblems.*
- ◆ *The bonding surfaces on the body must be free of dust, grease and adhesive residue.*
- ◆ *Clean bonding surfaces with cleaning solution - D 009 401 04- .*
- ◆ *Heat bonding surfaces with a hot air blower to approx. 40 ° C.*
- ◆ *After installing, press on emblems with roller.*

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9.2 Dimensions for rear lid

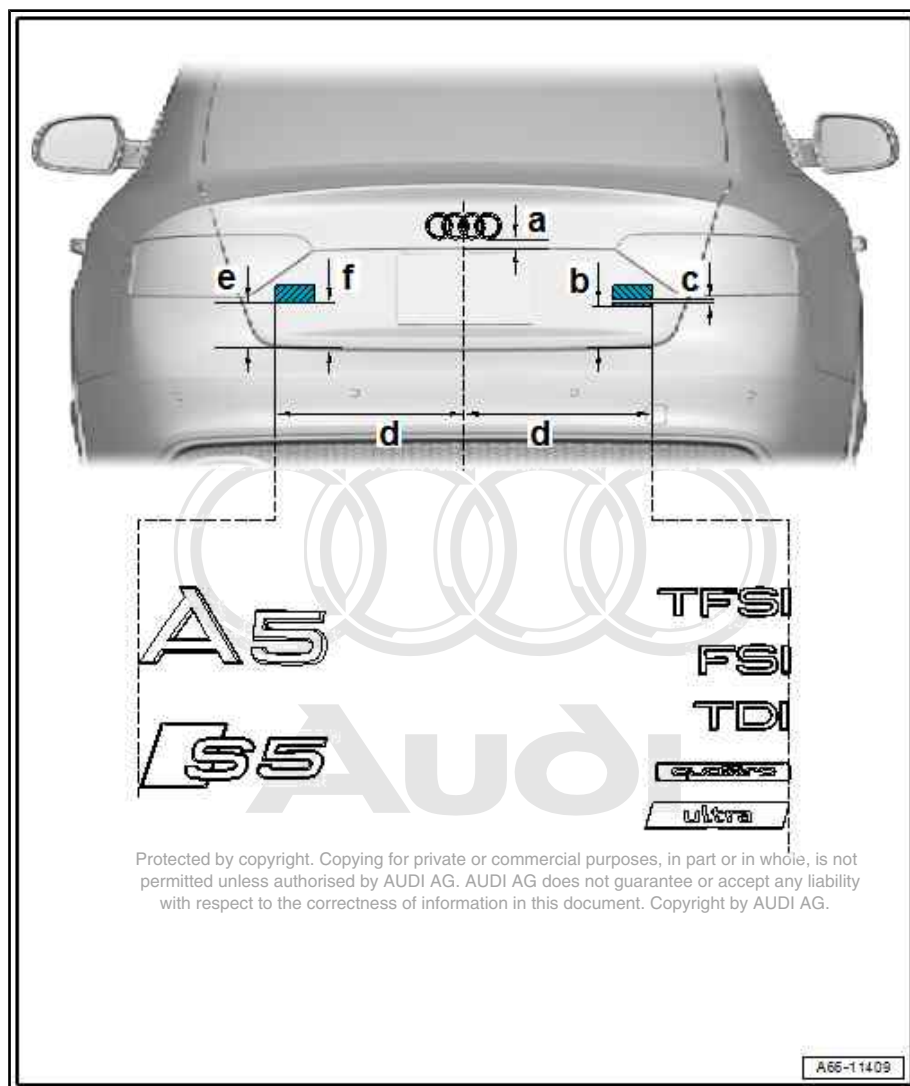
- Press badges and emblems firmly onto body, observing specified dimensions.



Note

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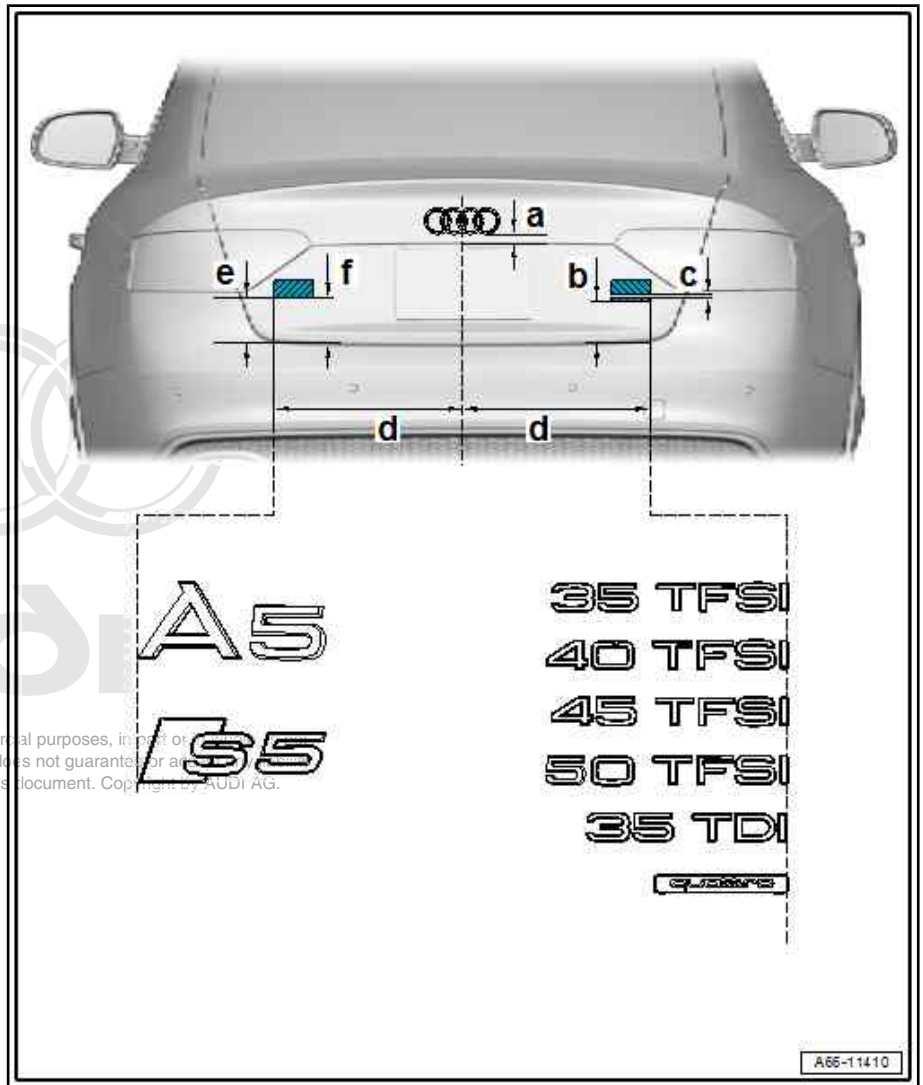
Dimension -b- is measured to the bottom edge of the quattro/ultra emblem.



 Note

Dimension -b- is measured to the bottom edge of the quattro/ultra emblem.

Country-specific version

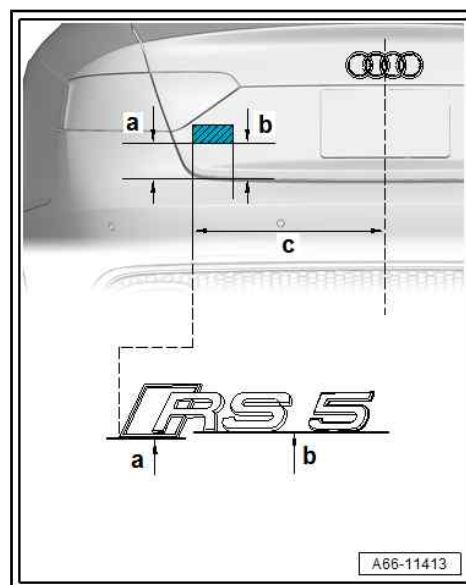


Note

Dimension -b- is measured to the bottom edge of the quattro emblem.

RS 5

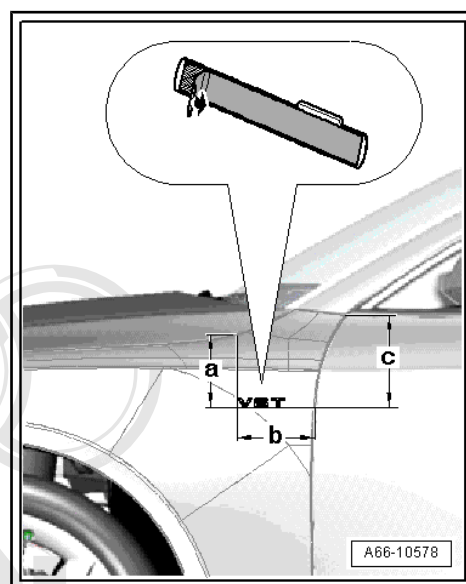
- Press badges and emblems firmly onto body, observing specified dimensions.
- ◆ Dimension -a- = 88 mm
- ◆ Dimension -b- = 86 mm
- ◆ Dimension -c- = 458 mm



9.3 Dimensions for wing panel

V6T emblem

- Press badges and emblems firmly onto body, observing specified dimensions.
- ◆ Dimension -a- = 141 mm
- ◆ Dimension -b- = 136 mm
- ◆ Dimension -c- = 175 mm



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