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Workshop Manual

Audi A1 2011 ➤

General body repairs, exterior

Edition 09.2016



List of Workshop Manual Repair Groups

Repair Group



00 - Technical data

50 - Body - front

55 - Bonnet, rear lid

57 - Front doors, door components, central locking

58 - Rear doors, door components

60 - Sunroof

63 - Bumpers

64 - Glazing

66 - Exterior equipment

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



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00 – Technical data

1 Repair notes

(ARL004651; Edition 09.2016)

⇒ [“1.1 Contact corrosion”, page 1](#)

⇒ [“1.2 Routing and attaching lines and wiring”, page 1](#)

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

⇒ [“1.4 Self-locking bolts”, page 1](#)

1.1 Contact corrosion

Contact corrosion can occur if unsuitable fasteners are used (e.g. bolts, nuts, washers, etc.).

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

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

Always install new parts as listed in the Electronic parts catalogue if you are not sure whether used parts can be refitted.

Please note:

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

1.2 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.

1.3 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.

1.4 Self-locking bolts

If bolts secured with microencapsulation have been removed, they must be renewed, and the threaded holes must be cleaned with a suitable tap.



50 – Body - front

1 Lock carrier

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

⇒ "1.2 Removing and installing lock carrier", page 4

1.1 Exploded view - lock carrier

⇒ "1.1.1 Exploded view - lock carrier", page 2

⇒ "1.1.2 Exploded view - lock carrier, mounting for headlight", page 3

1.1.1 Exploded view - lock carrier

1 - Impact bar

- ☐ Secured to lock carrier with bolts
- ☐ Exploded view
⇒ page 161

2 - Bolt

- ☐ 30 Nm
- ☐ 3x on each side

3 - Headlight

- ☐ Installed

4 - Bolt

- ☐ Tightening torque
⇒ page 3

5 - Lock carrier

- ☐ Removing and installing
⇒ page 4

6 - Bolt

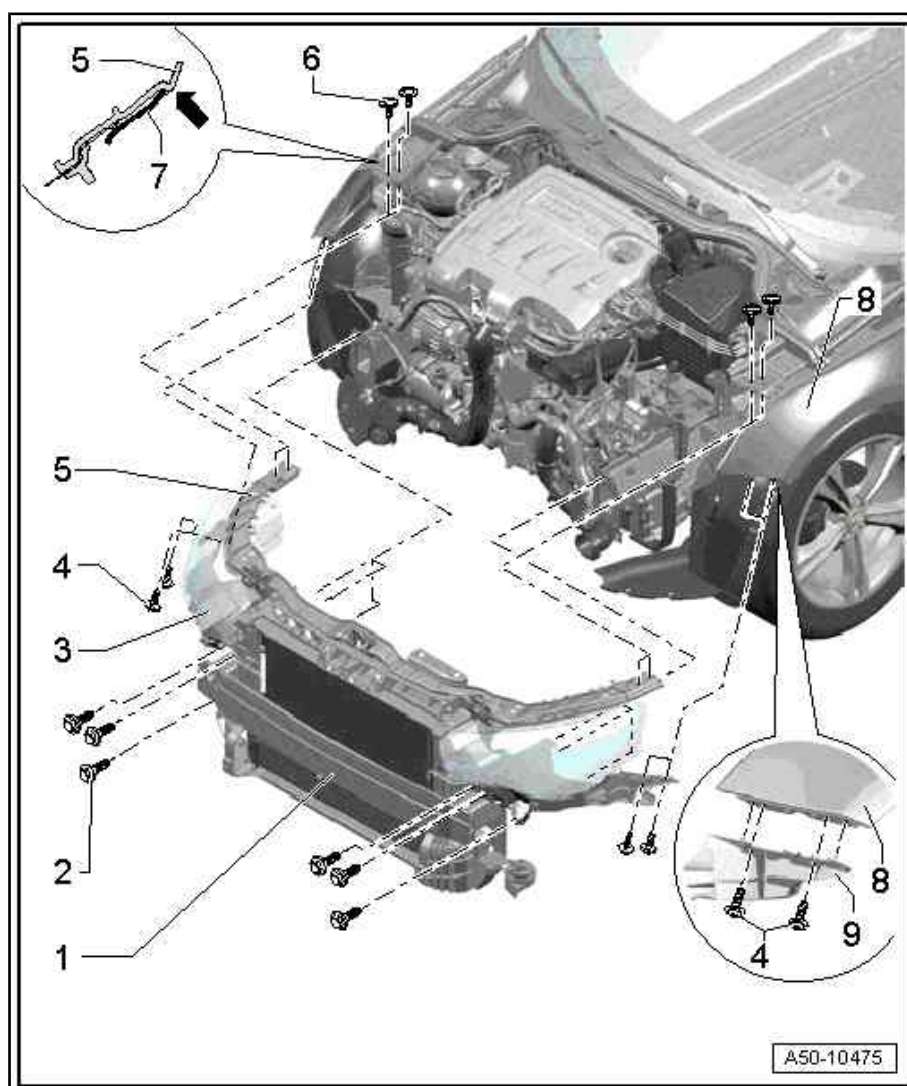
- ☐ 10 Nm
- ☐ Note tightening sequence: Tighten bolts to specified torque, alternately from front to rear.

7 - Deformation element

- ☐ Riveted onto wing
⇒ Item 4 (page 6)

8 - Wing

9 - Mounting for headlight





1.1.2 Exploded view - lock carrier, mounting for headlight

1 - Bolt

- ☐ 4.5 Nm

2 - Breather hose

- ☐ For headlight housing
- ☐ Vehicles up to model year 2014

3 - Bolt

- ☐ Tightening torque ⇒ Electrical system; Rep. gr. 94 ; Headlights; Exploded view - headlight

4 - Locking bolt

- ☐ For securing headlight housing in bracket

5 - Lock carrier

6 - Bolt

- ☐ Tightening torque ⇒ Electrical system; Rep. gr. 94 ; Headlights; Exploded view - headlight

7 - Locking bolt

- ☐ For securing headlight housing in bracket

8 - Bracket

- ☐ For headlight housing
- ☐ With adjuster element for aligning headlight housing with bumper contour

9 - Bracket

- ☐ For headlight housing
- ☐ With adjuster element for aligning headlight housing with bumper contour

10 - Mounting

- ☐ Vehicles up to model year 2014, depending on equipment version
- ☐ For breather hose for headlight housing

11 - Bolt

- ☐ Tightening torque ⇒ Electrical system; Rep. gr. 94 ; Headlights; Exploded view - headlight

12 - Speed nut

13 - Mounting

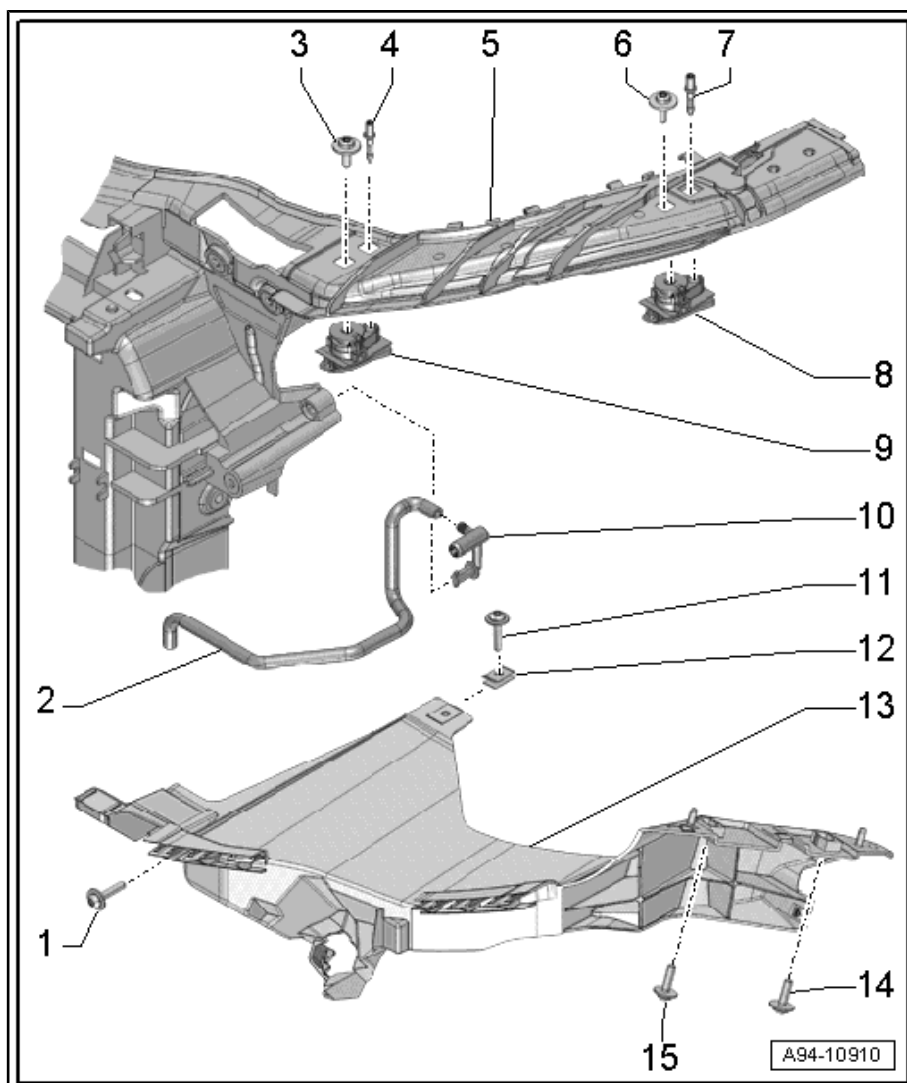
- ☐ For headlight

14 - Bolt

- ☐ 4.5 Nm
- ☐ Observe tightening sequence (from front to rear)

15 - Bolt

- ☐ 4.5 Nm
- ☐ Observe tightening sequence (from front to rear)



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1.2 Removing and installing lock carrier

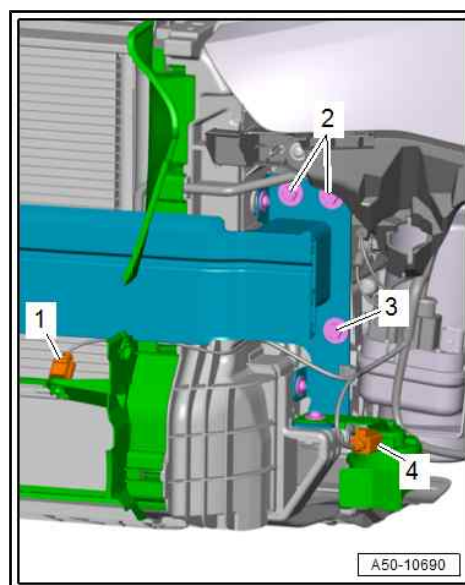
⇒ [“1.2.1 Removing and installing lock carrier”, page 4](#)

⇒ [“1.2.2 Removing and installing mounting for headlight housing”, page 5](#)

1.2.1 Removing and installing lock carrier

Removing

- Remove noise insulation ⇒ [page 254](#) .
- Remove bumper (front) ⇒ [page 162](#) .
- Detach radiator from lock carrier ⇒ Rep. gr. 19 ; Radiator/ radiator fans; Exploded view - radiator/radiator fans .
- Detach Bowden cable for bonnet lock at coupling unit ⇒ [page 22](#) .
- Unplug electrical connectors -1 and 4- and move clear.
- If fitted, remove headlight washer jets and move to one side with fluid hose connected ⇒ Electrical system; Rep. gr. 92 ; Headlight washer system; Removing and installing washer jets .
- Remove bolts -2, 3-.



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- Remove bolts -2, 3-.
- Release securing tab -1- in direction of -arrow- and detach lock carrier towards front with the help of a second mechanic.



Note

The impact bar is secured to the lock carrier and does not have to be removed.

- Detach lock carrier with headlights towards the front.
- If lock carrier is to be renewed, also remove the following components:

♦ Impact bar ⇒ [page 163](#)

♦ Bonnet lock ⇒ [page 28](#)

Installing

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

- Adjust headlights ⇒ Electrical system; Rep. gr. 94 ; Headlights; Adjusting headlights .

Tightening torques

♦ ⇒ [“1.1.1 Exploded view - lock carrier”, page 2](#)

1.2.2 Removing and installing mounting for headlight housing

Removing

- Remove bumper (front) ⇒ [page 162](#) .
- If fitted, remove headlight washer jet and move to one side with fluid hose connected ⇒ Electrical system; Rep. gr. 92 ; Headlight washer system; Removing and installing washer jets .
- Remove headlight ⇒ Electrical system; Rep. gr. 94 ; Headlights; Removing and installing headlights .
- Remove bolts -1, 3-.
- Detach mounting -2-.

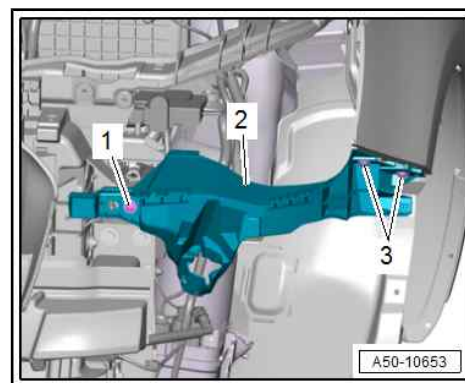
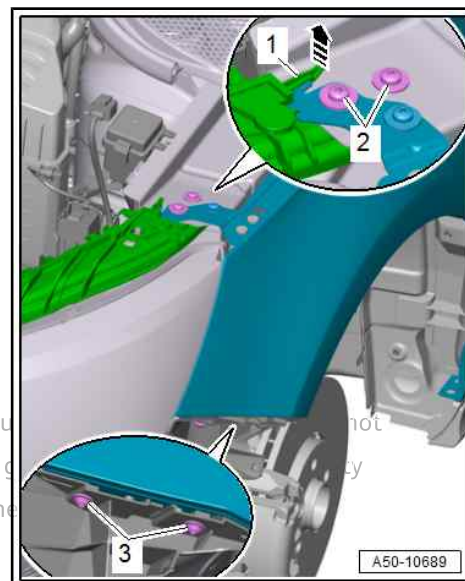
Installing

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

- Adjust headlights ⇒ Electrical system; Rep. gr. 94 ; Headlights; Adjusting headlights .

Tightening torques

♦ ⇒ [“1.1.2 Exploded view - lock carrier, mounting for headlight”, page 3](#)





2 Wing

⇒ "2.1 Exploded view - wing", page 6

⇒ "2.2 Removing and installing wing", page 9

2.1 Exploded view - wing

⇒ "2.1.1 Exploded view - wing", page 6

⇒ "2.1.2 Exploded view - wing, wing panel brace", page 7

⇒ "2.1.3 Exploded view - wing, seal for wing", page 8

⇒ "2.1.4 Exploded view - wing, closure plate (bottom)", page 9

2.1.1 Exploded view - wing

1 - Bolt

- 10 Nm
- 7x

2 - Nut

- 8 Nm
- 2x

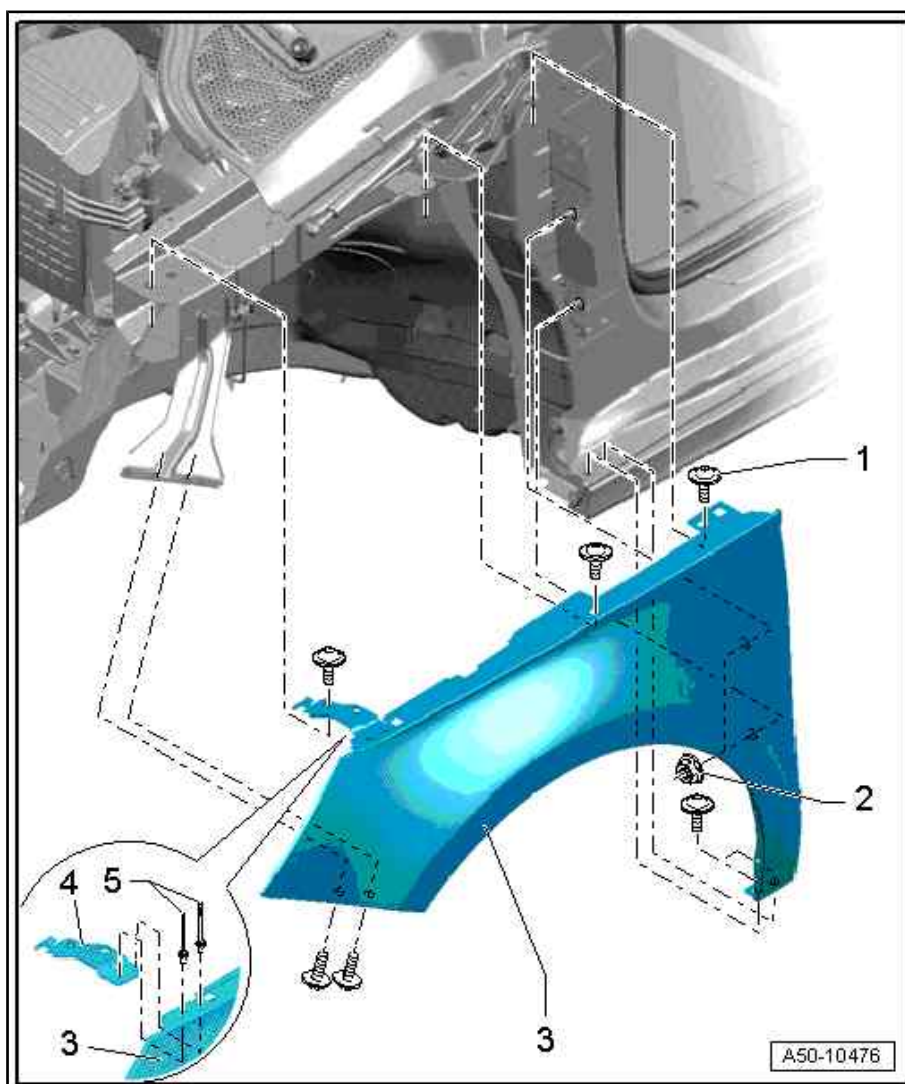
3 - Wing

- Removing and installing
⇒ page 9

4 - Deformation element

- Riveted to wing

5 - Pop rivet





2.1.2 Exploded view - wing, wing panel brace

1 - Bolt

- 10 Nm

2 - Brace

- Bumper removed
- Mounting for headlight removed
- Press wheel housing liner to side in area of brace.
- Remove bolts -1 and 6-

3 - Bolt

- 10 Nm

4 - Retainer (rear)

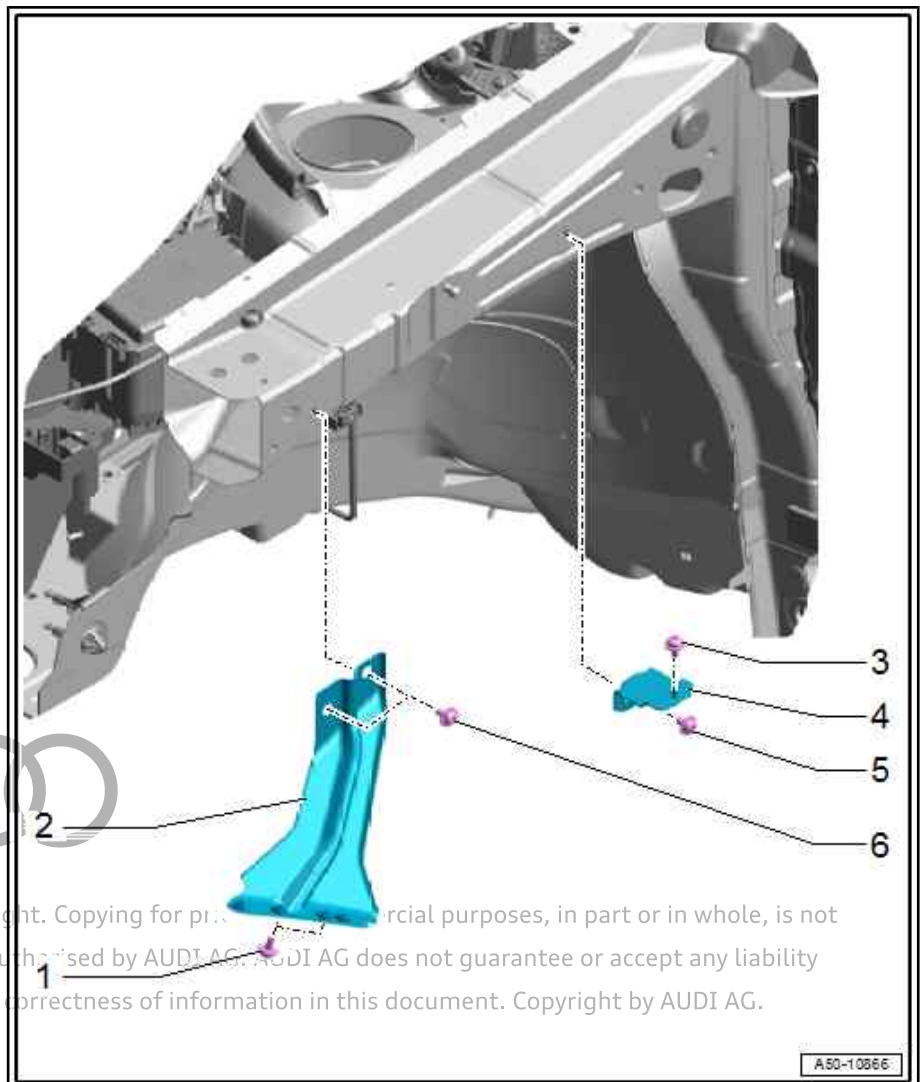
- Wheel housing liner removed
- Remove bolts -3 and 5-

5 - Bolt

- 10 Nm

6 - Bolt

- 10 Nm



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2.1.3 Exploded view - wing, seal for wing

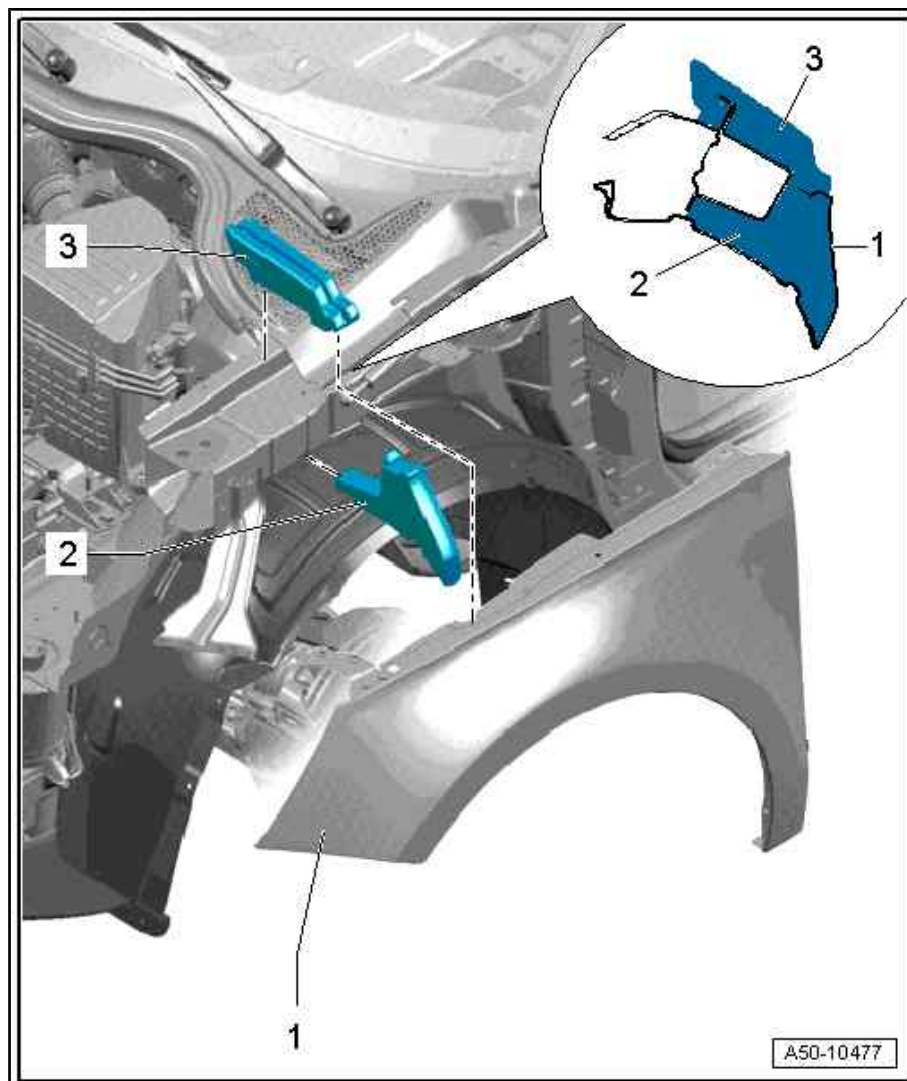
1 - Wing

2 - Seal (bottom)

- ☐ Self-adhesive
- ☐ Peel off protective film and slide in seal on wing mounting flange between wheel housing liner and inside of wing.

3 - Seal (top)

- ☐ Slide seal onto wing mounting flange and clip in.



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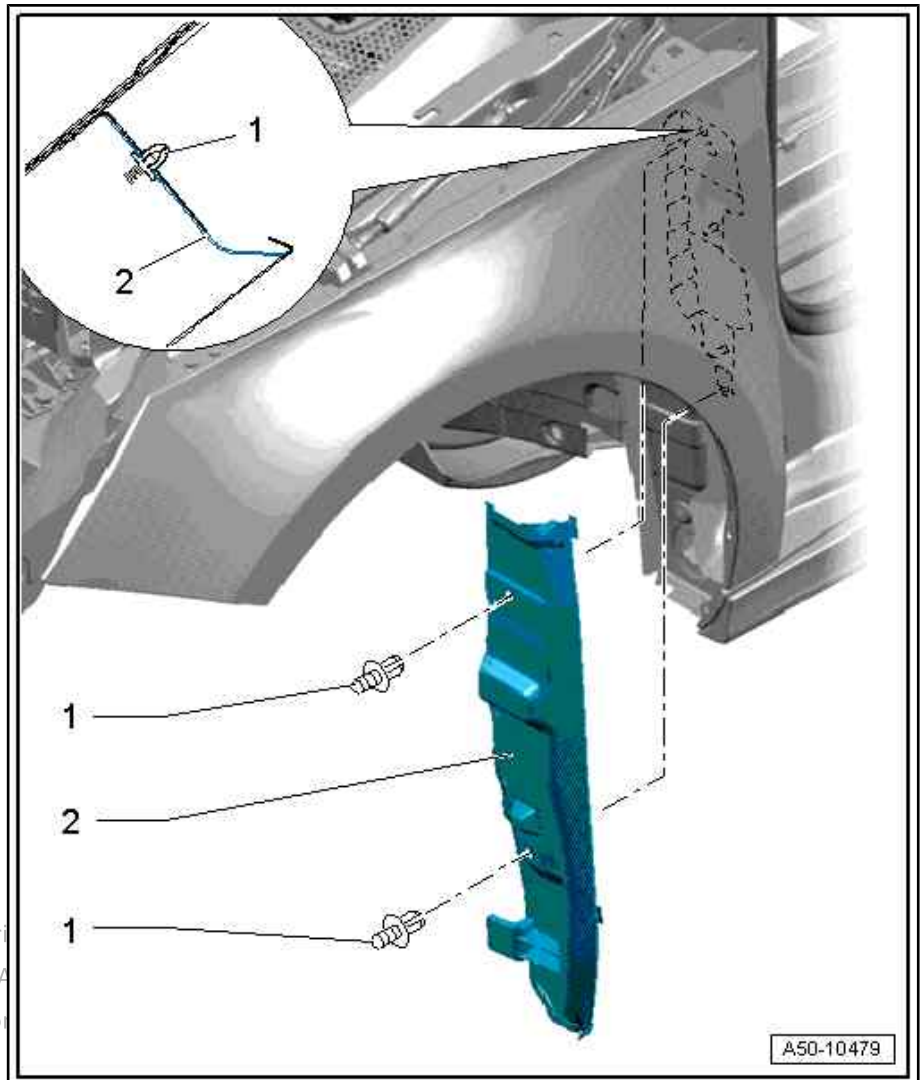
2.1.4 Exploded view - wing, closure plate (bottom)

1 - Clip

□ 2x

2 - Closure plate

□ Removing and installing
⇒ [page 13](#)



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2.2 Removing and installing wing

⇒ ["2.2.1 Removing and installing wing", page 9](#)

⇒ ["2.2.2 Removing and installing closure plate \(top\)", page 11](#)

⇒ ["2.2.3 Removing and installing closure plate \(bottom\)", page 13](#)

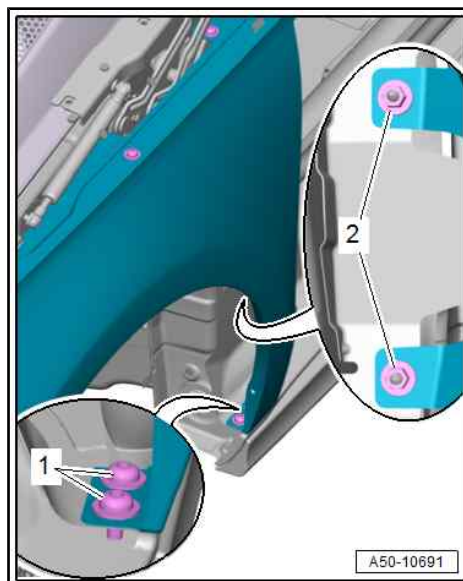
2.2.1 Removing and installing wing

Removing

- Remove closure plate (top) ⇒ [page 11](#) .
- Remove mounting for headlight ⇒ [page 5](#) .
- Remove closure plate (bottom) ⇒ [page 13](#) .



- Remove bolts -1- and nuts -2-.



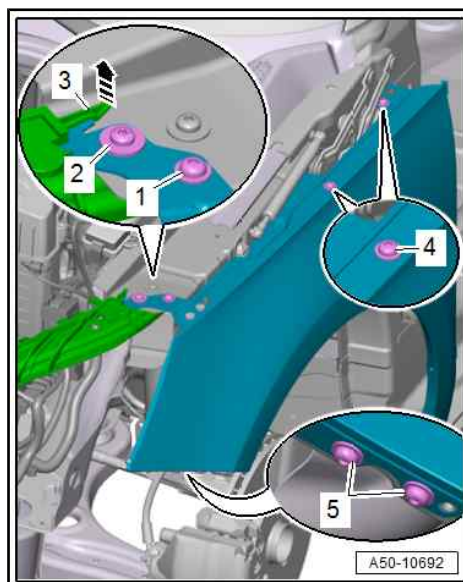
- Remove bolts -1, 2, 4 and 5-.
- Release securing tab -3- in direction of -arrow- and detach wing.

Preparing wing for installation



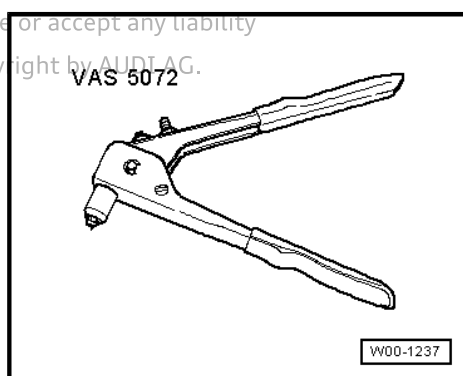
Note

The wing panel can only be ordered in individual parts and must be prepared for installation as follows.



Special tools and workshop equipment required

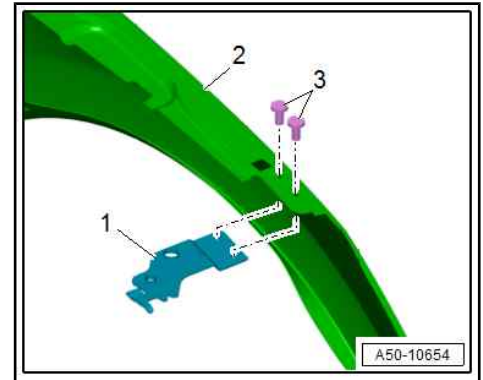
- ◆ Pop rivet pliers - VAS 5072 - by AUDI AG. AUDI AG does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by AUDI AG.



- ◆ Drill
- ◆ Pop rivets ⇒ Electronic parts catalogue



- Rivet bracket -1- onto wing panel -2- with pop rivets -3-.
- The bracket must be positioned under the edge of the wing panel.



Installing

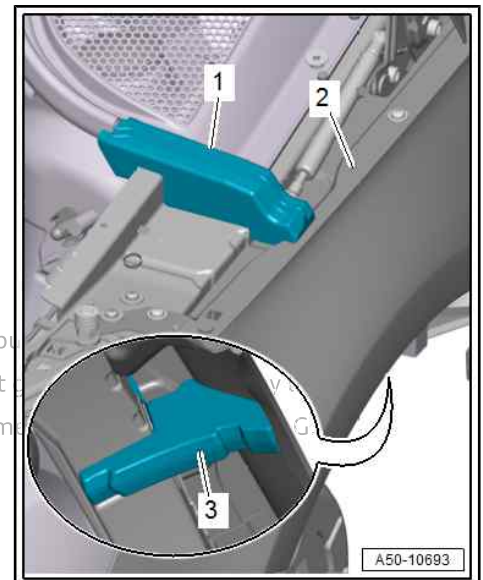
Installation is carried out in reverse order; note the following:

- Insert seal (bottom) -3- in wing panel -2- in area of seal (top) -1-, as shown in illustration.

Tightening torques

- ◆ ⇒ ["2.1 Exploded view - wing", page 6](#)

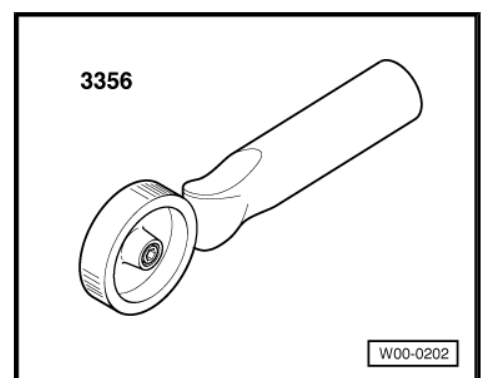
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2.2.2 Removing and installing closure plate (top)

Special tools and workshop equipment required

- ◆ Roller - 3356-



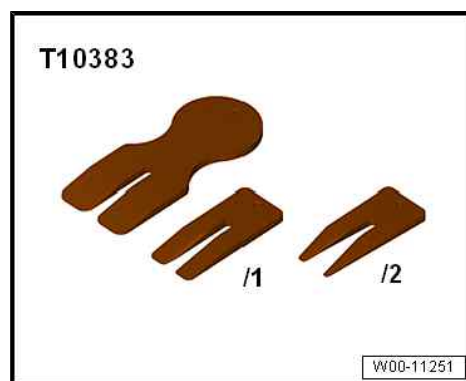


◆ Hot air blower - V.A.G 1416-

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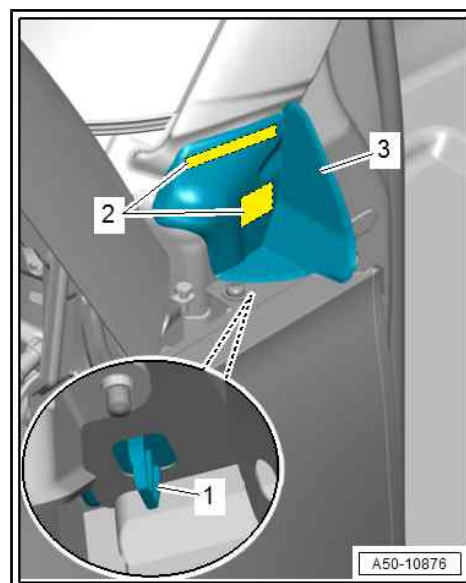
◆ Wedges - T10383-



◆ Cleaning solution - D 009 401 04-

Removing

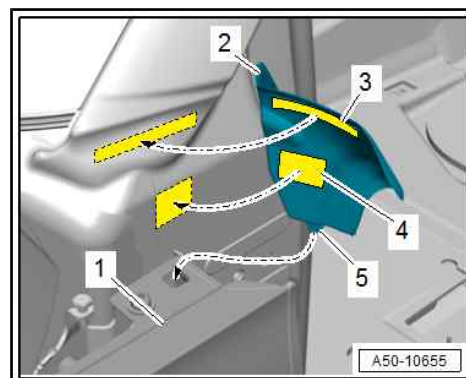
- Unfasten wheel housing liner at rear and push to side
⇒ [page 269](#) .
- The vehicle must be at room temperature (at least 15° Celsius).
- Carefully heat closure plate with hot air blower - V.A.G 1416- .
- Carefully release bonded connections -2- from A-pillar with wedge -T10383/1- .
- Release catch -1- and remove closure plate -3- upwards.



Installing

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

- Clean bonding surface on body with cleaning solution - D 009 401 04- .
- Peel protective film off adhesive strips -3, 4-.
- Fit closure plate -2- on wing panel -1-.
- Slide catch -5- into mounting until it engages audibly.
- Press closure plate onto A-pillar using roller - 3356- .





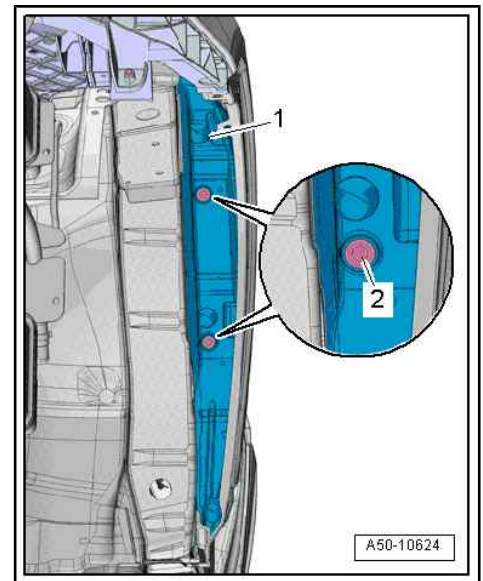
2.2.3 Removing and installing closure plate (bottom)

Removing

- Unfasten wheel housing liner (front) at rear and push to side ⇒ [page 269](#) .
- Remove spreader rivets -2-.
- Take out closure plate -1- downwards.

Installing

Installation is carried out in reverse sequence.



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3 Bulkhead

⇒ ["3.1 Exploded view - plenum chamber partition panel", page 14](#)

⇒ ["3.2 Exploded view - plenum chamber cover", page 15](#)

⇒ ["3.3 Removing and installing plenum chamber cover", page 16](#)

3.1 Exploded view - plenum chamber partition panel

1 - Clamping washer

2 - Insulation

3 - Centre hex stud

- ☐ Only on right-hand drive vehicles

4 - Bolt

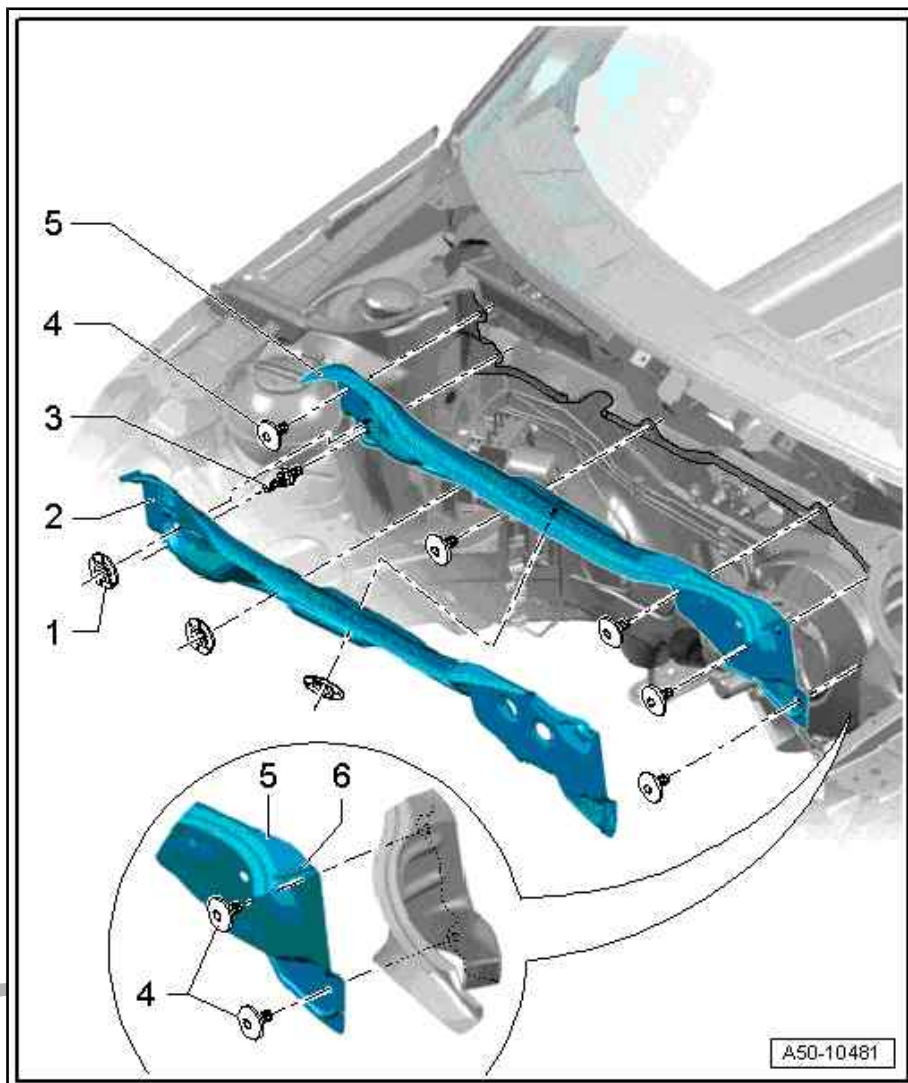
- ☐ 10 Nm

5 - Plenum chamber partition panel

- ☐ Air cleaner removed
- Only loosen engine control unit (do not remove).
- If fitted, remove bracket (right-side) for connectors ⇒ [page 15](#).
- Unscrew bolts and slide plenum chamber partition panel out to the side.

6 - Seal

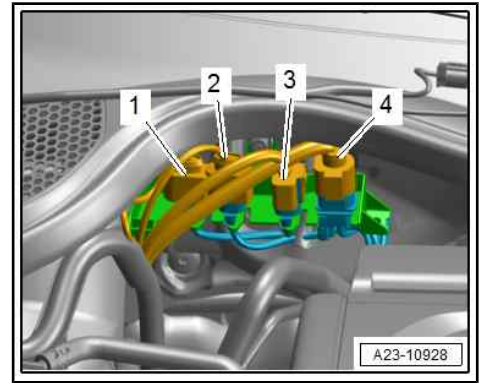
- ☐ Check for damage and renew if necessary



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- If fitted, open heat shield sleeve.
- Detach electrical connectors from bracket, unplug connectors and move electrical wiring clear:
- 1 - For exhaust gas temperature sender 4 - G648-
- 2 - For exhaust gas temperature sender 3 - G495-
- 3 - For exhaust gas temperature sender 2 - G448-
- 4 - For Lambda probe - G39-

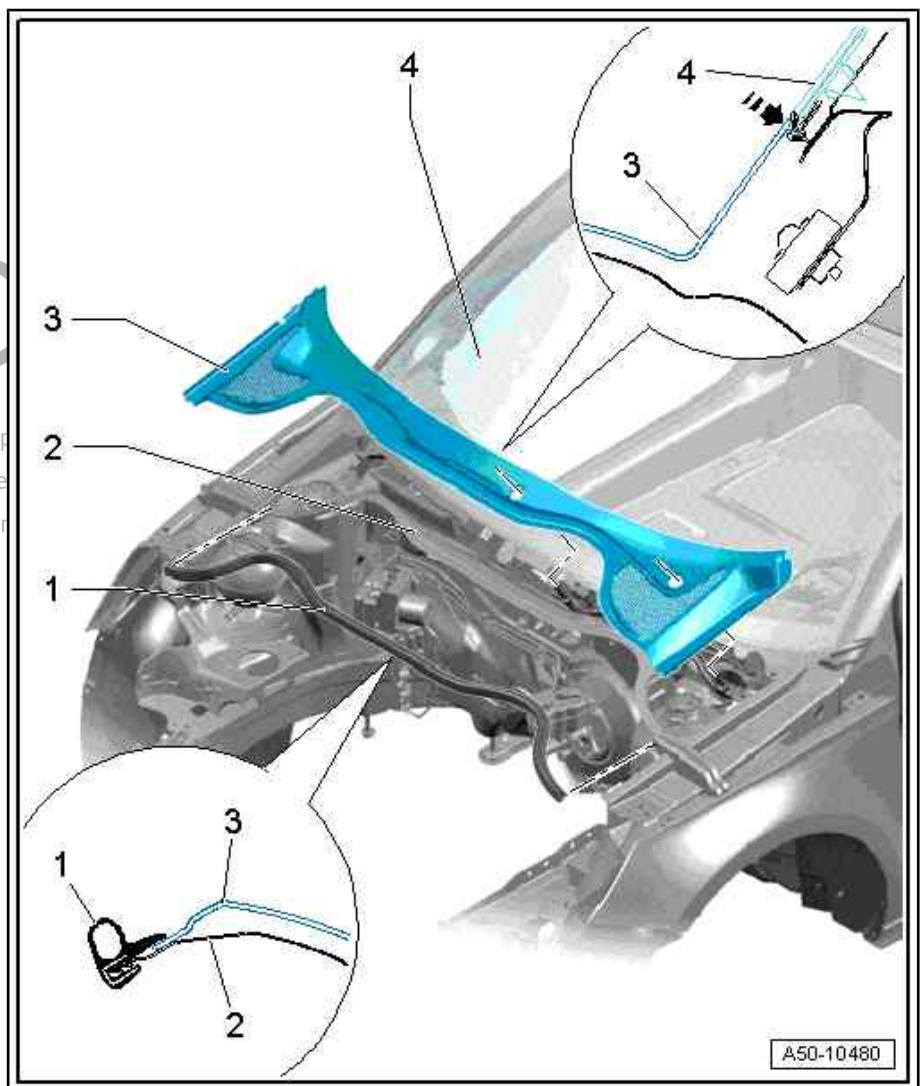


3.2 Exploded view - plenum chamber cover

- 1 - Seal
- 2 - Plenum chamber partition panel
- 3 - Plenum chamber cover
 - Removing and installing
⇒ [page 16](#)
- 4 - Windscreen



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3.3 Removing and installing plenum chamber cover

Removing

- Remove wiper arms ⇒ Electrical system; Rep. gr. 92 ; Windscreen wiper system; Removing and installing wiper arms .
- Pull off seal -2-.

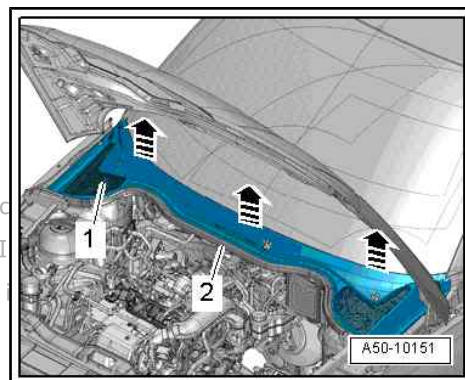


Caution

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Risk of damage to plenum chamber cover.

- ◆ *Coat transition between windscreen and plenum chamber cover with a small amount of soap solution and, starting at edge of windscreen, carefully pull plenum chamber cover vertically upwards out of retainer at windscreen.*



- Detach plenum chamber cover -1-; to do so, carefully pull retaining catch of plenum chamber cover out of mounting at windscreen -arrows-.

Installing

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



Note

- ◆ *The cowl panel trim of the plenum chamber cover must be engaged completely in the windscreen frame.*
- ◆ *Water may flow into the fresh air intake duct if the plenum chamber cover is damaged or not fitted correctly. This may result in problems with odour from the heater/air conditioner and/or moisture in the passenger compartment.*



55 – Bonnet, rear lid

1 Bonnet

- ⇒ [“1.1 Exploded view - bonnet”, page 17](#)
- ⇒ [“1.2 Exploded view - Bowden cable”, page 22](#)
- ⇒ [“1.3 Removing and installing bonnet”, page 25](#)
- ⇒ [“1.4 Adjusting bonnet”, page 26](#)
- ⇒ [“1.5 Removing and installing bonnet lock”, page 28](#)
- ⇒ [“1.6 Removing and installing operating lever for bonnet lock”, page 29](#)
- ⇒ [“1.7 Removing and installing Bowden cable”, page 29](#)
- ⇒ [“1.8 Removing and installing striker”, page 32](#)
- ⇒ [“1.9 Removing and installing hinges”, page 32](#)
- ⇒ [“1.10 Removing and installing insulation”, page 33](#)
- ⇒ [“1.11 Removing and installing gas strut”, page 33](#)
- ⇒ [“1.12 Releasing gas from gas strut”, page 33](#)

1.1 Exploded view - bonnet

- ⇒ [“1.1.1 Exploded view - bonnet”, page 17](#)
- ⇒ [“1.1.2 Exploded view - impact guard for bonnet”, page 19](#)
- ⇒ [“1.1.3 Exploded view - bonnet, gas strut”, page 20](#)
- ⇒ [“1.1.4 Exploded view - bonnet lock”, page 21](#)

1.1.1 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 33](#).
- 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 27](#).

2 - Bolts

- ☐
- 21 Nm

3 - Bonnet hinge

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

4 - Nuts

- ☐
- 21 Nm

5 - Gas strut

- ☐
- Exploded view ⇒
- [page 20](#)

6 - Ball-head pin**7 - Arrestor**

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

8 - Cap nut

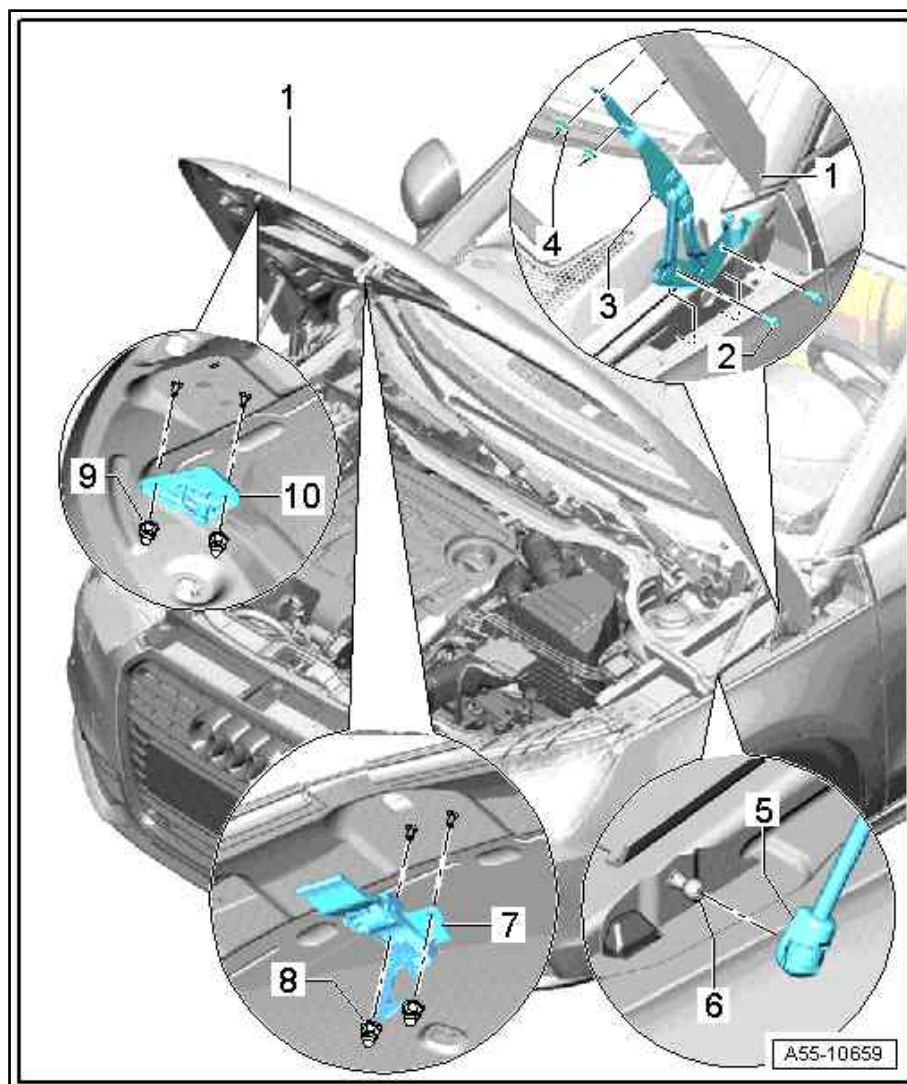
- ☐
- 8 Nm

9 - Cap nut

- ☐
- 8 Nm

10 - Striker

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



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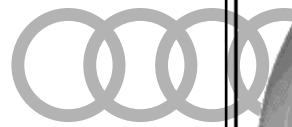
1.1.2 Exploded view - impact guard for bonnet

1 - Impact guard

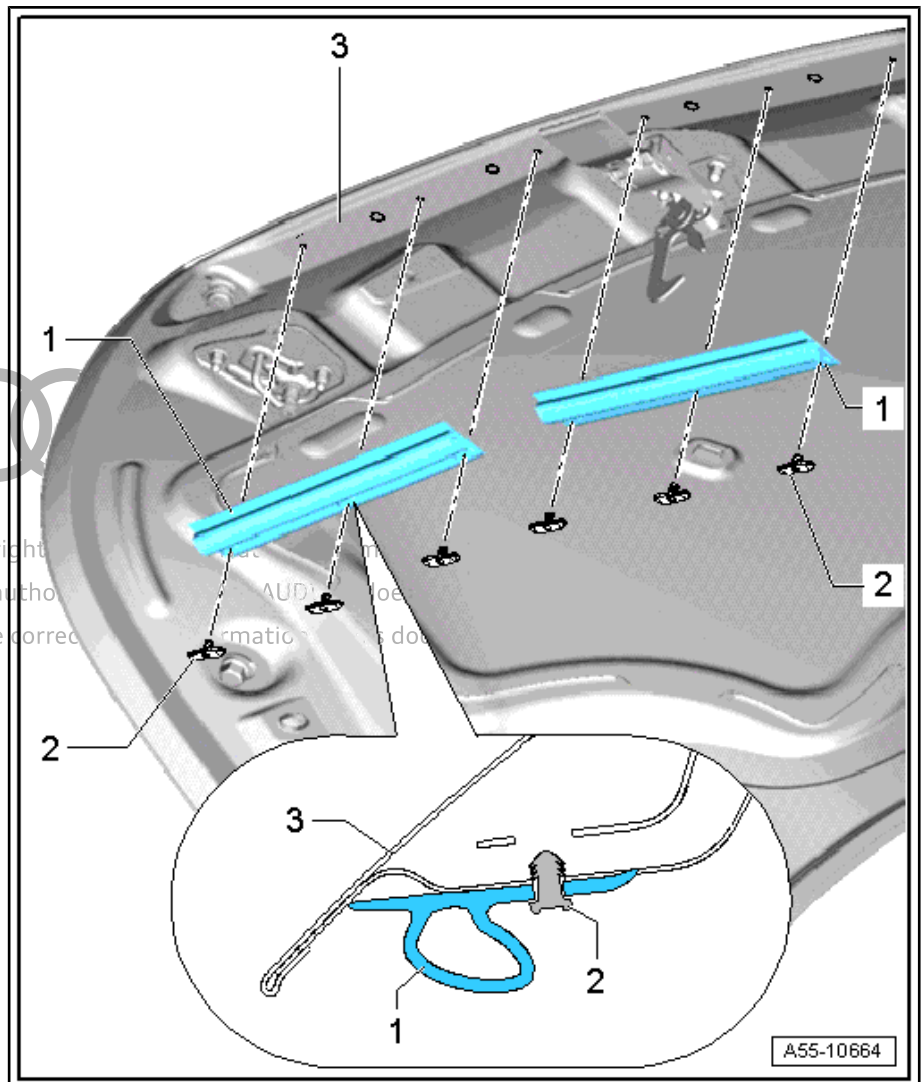
- ❑ Removing and installing
⇒ [page 26](#)

2 - Clip

3 - Bonnet



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1.1.3 Exploded view - bonnet, gas strut

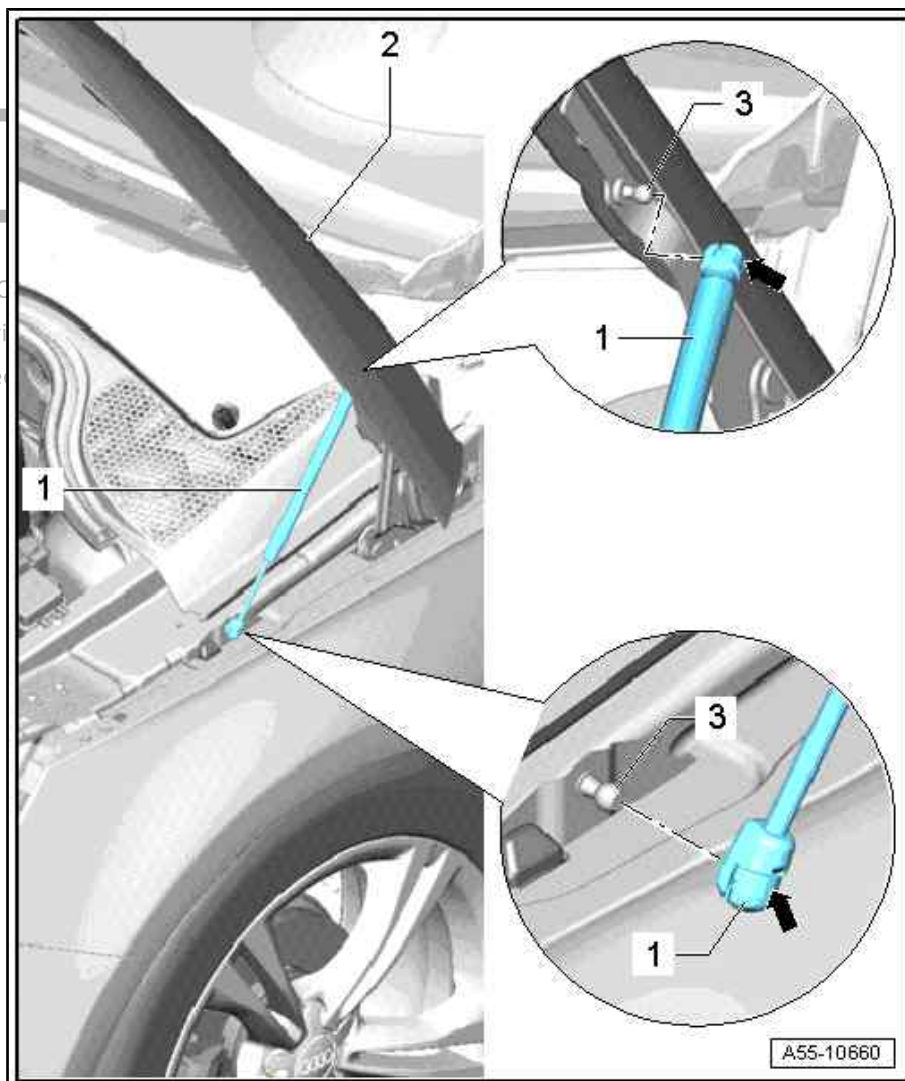
1 - Gas strut

- ❑ Removing and installing
⇒ [page 33](#)
- ❑ Releasing gas
⇒ [page 33](#)

2 - Bonnet

3 - Ball-head pin

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1.1.4 Exploded view - bonnet lock

1 - Bolt

- 11 Nm

2 - Bonnet lock

- Removing and installing
⇒ [page 28](#)



Note

*Adjust the height of the
moving the bonnet lock*

3 - Lock carrier

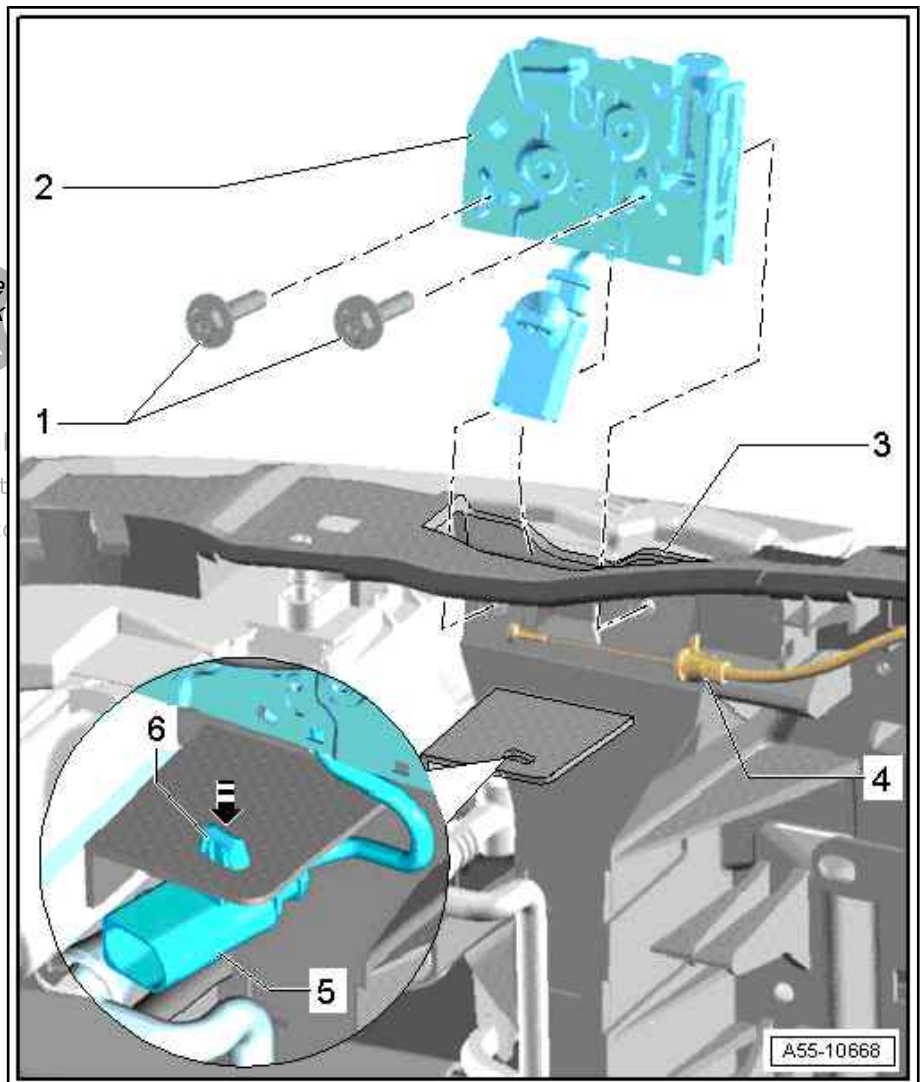
4 - Support bracket for Bowden cable

- Engaging in bonnet lock
⇒ [page 30](#)

5 - Electrical connector

6 - Retainer for connector

- When installing bonnet
lock, slide connector in-
to lock carrier from be-
low and engage.





1.2 Exploded view - Bowden cable

⇒ "1.2.1 Exploded view - Bowden cable, bonnet lock",
page 22

⇒ "1.2.2 Exploded view - Bowden cable, cover, operating lever",
page 23

1.2.1 Exploded view - Bowden cable, bonnet lock

1 - Bonnet lock (right-side)

2 - Bowden cable for bonnet lock

- ☐ Removing:
 - Disconnect Bowden cable from coupling unit ⇒ [page 29](#).
 - Disengage Bowden cable from bracket -7-.
 - Pull Bowden cable towards engine compartment.
- ☐ Installing: in reverse order of removal
- ☐ Adjusting trigger point for bonnet locks ⇒ [page 30](#)

3 - Bonnet lock (left-side)

4 - Operating lever

- ☐ Disengaging Bowden cable ⇒ [page 23](#)

5 - Coupling unit for Bowden cable

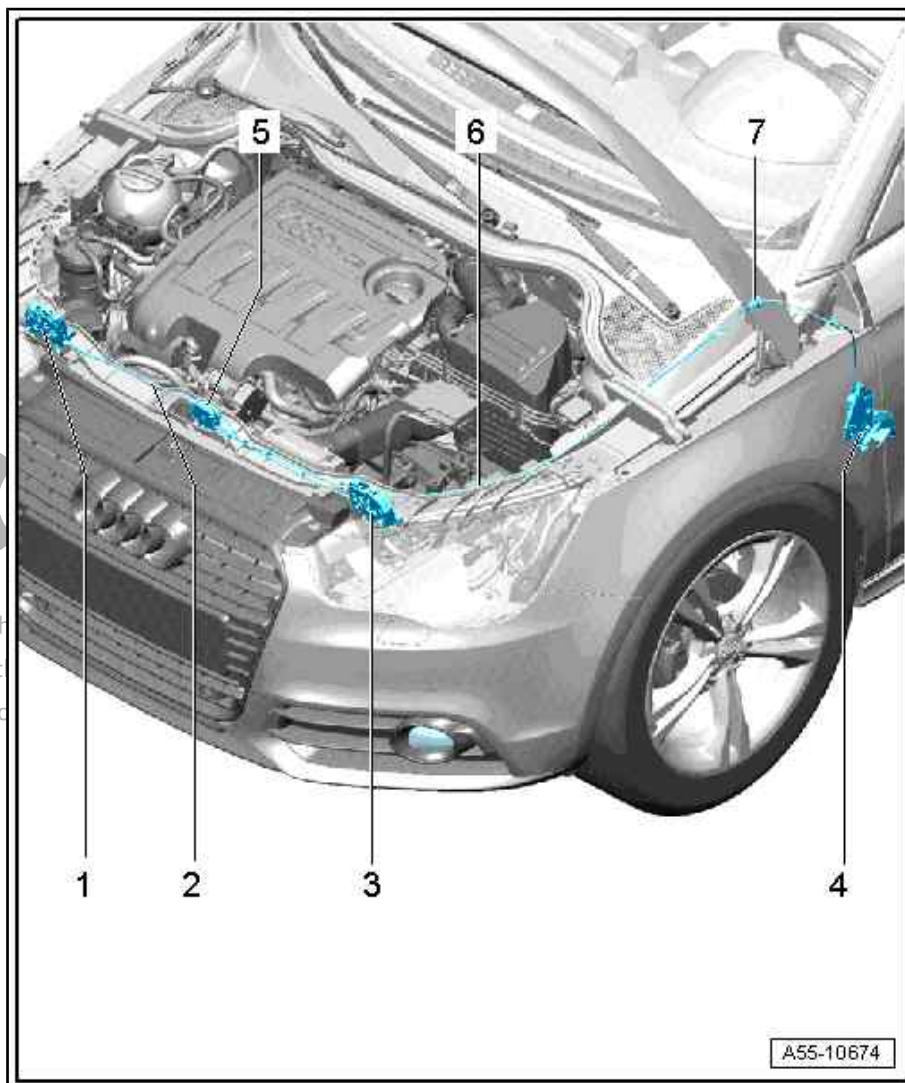
- Disengage Bowden cable to vehicle interior at this point before removing lock carrier and when removing operating lever.

6 - Bowden cable for operating lever

- ☐ Bowden cable to operating lever in vehicle interior

7 - Grommet

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





1.2.2 Exploded view - Bowden cable, cover, operating lever

Cover for operating lever

1 - Operating lever

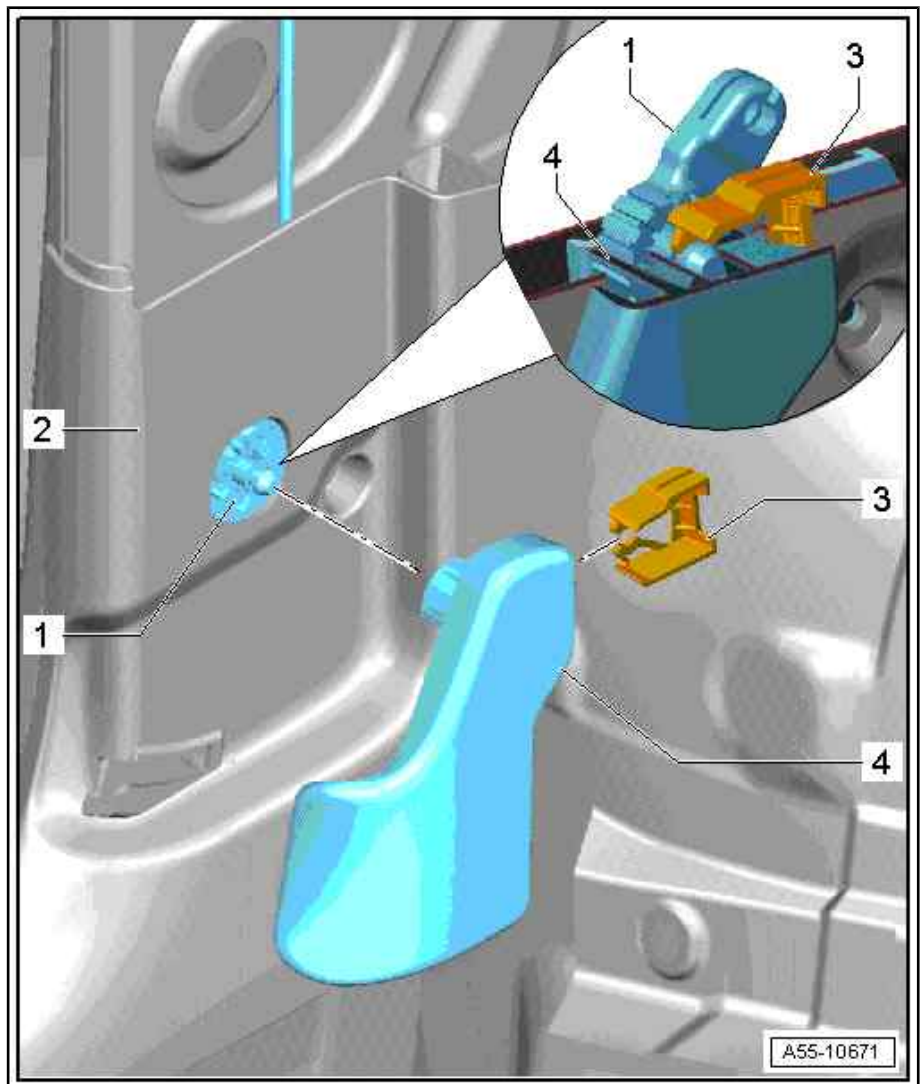
2 - A-pillar trim (bottom)

3 - Retaining clip

- ☐ Press in fully (must engage).

4 - Cover for operating lever

- ☐ Before removing, disengage Bowden cable from coupling unit in engine compartment [⇒ page 29](#).
- ☐ Lever retaining clip out of operating lever.
- ☐ Detach cover from operating lever at side.



Operating lever



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1 - Mounting bracket for operating lever

- ❑ Cover for operating lever removed ⇒ [page 23](#)
- ❑ A-pillar trim (bottom) removed ⇒ General body repairs, interior; Rep. gr. 70 ; Passenger compartment trim panels; Removing and installing A-pillar trim
- ❑ Unscrew bolts -5- and disengage Bowden cable -4-.

2 - Clip

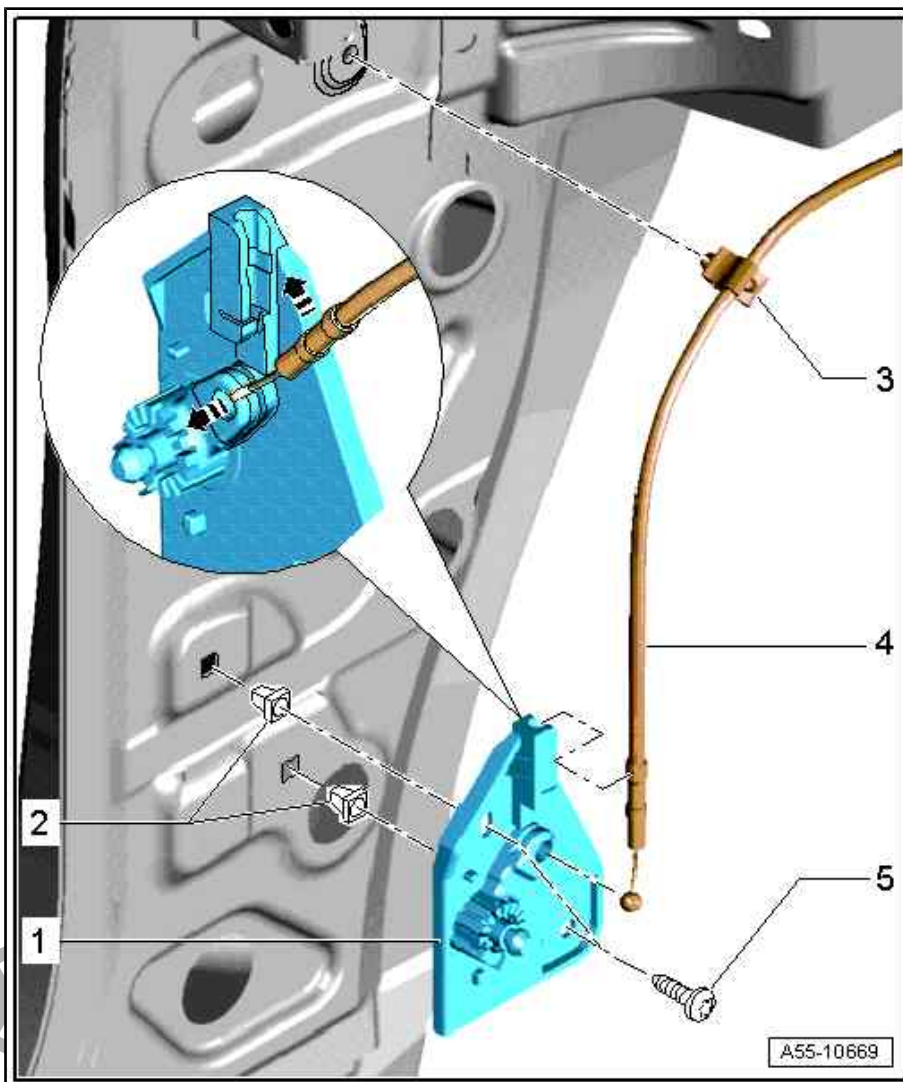
3 - Clip

4 - Bowden cable

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

5 - Bolt

- ❑ 2 Nm



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1.3 Removing and installing bonnet

⇒ ["1.3.1 Removing and installing arrester", page 25](#)

⇒ ["1.3.2 Removing and installing bracket for arrester", page 25](#)

⇒ ["1.3.3 Removing and installing impact guard for bonnet", page 26](#)

1.3.1 Removing and installing arrester

Removing

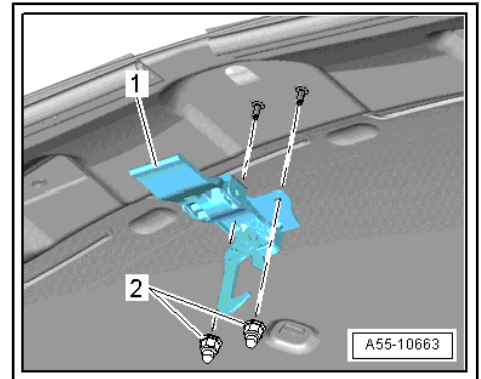
- Unscrew nuts -2- and detach arrester -1-.

Installing

Installation is carried out in reverse sequence.

Tightening torques

- ◆ ⇒ ["1.1.1 Exploded view - bonnet", page 17](#)



1.3.2 Removing and installing bracket for arrester

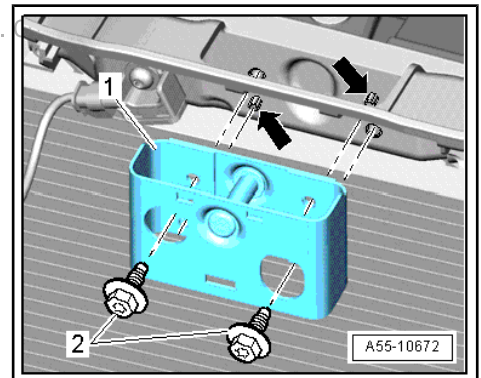
Removing

- Unclip coupling unit for Bowden cable at bracket -1- ⇒ [page 29](#).
- Remove bolts -2-.

Installing

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

- Fit bracket on locating lugs -arrows- and tighten bolts to 11 Nm.





1.3.3 Removing and installing impact guard for bonnet

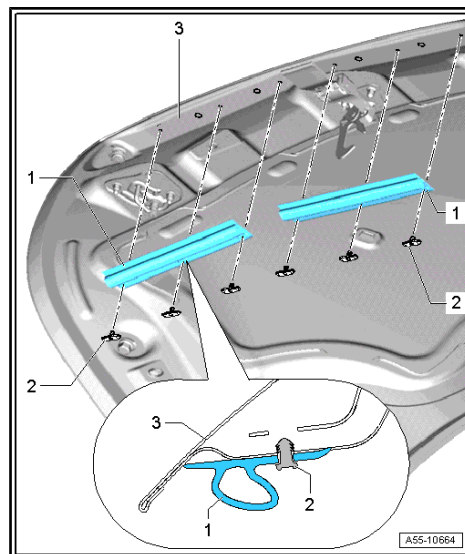
Removing

- Prise clip -2- off bonnet -3-.
- Detach impact guard -1-.

Installing

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

- Clip must be pressed into bonnet as far as it will go.



1.4 Adjusting bonnet

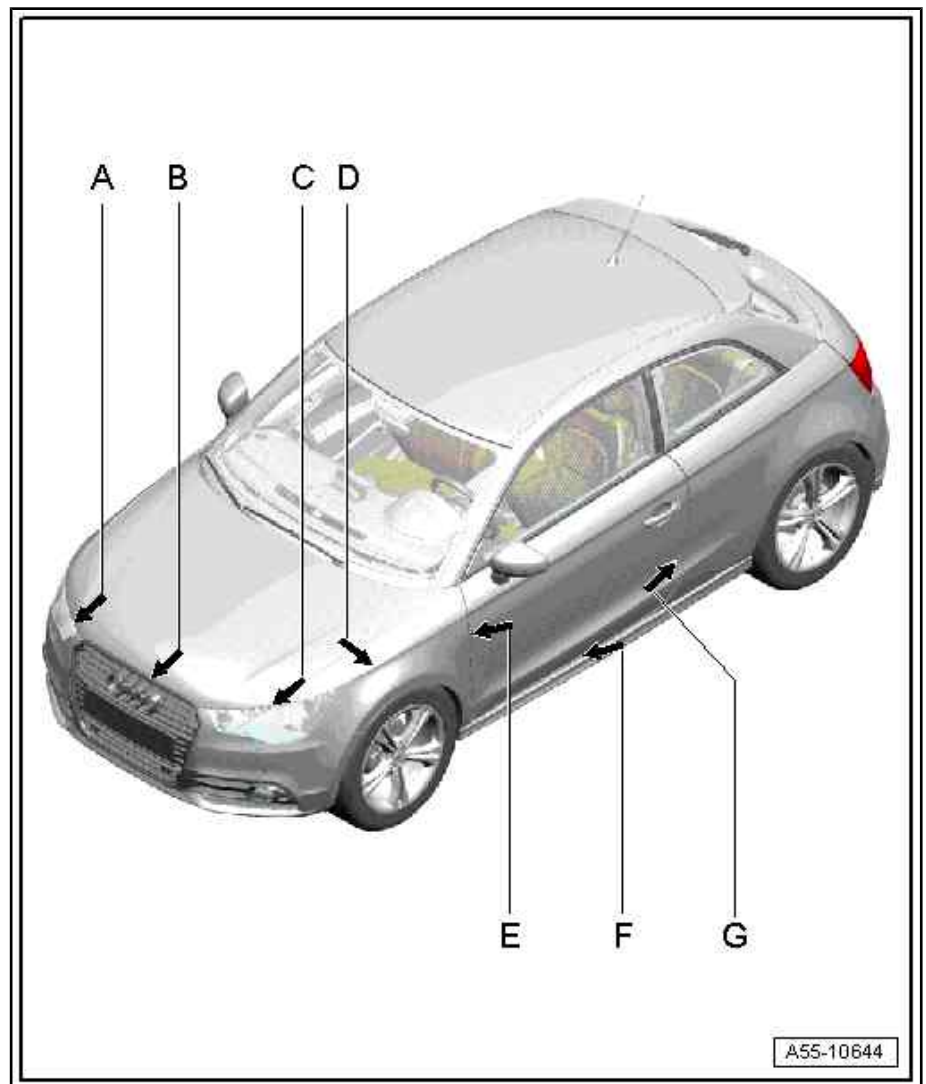
Special tools and workshop equipment required

- ◆ Setting gauge - 3371-



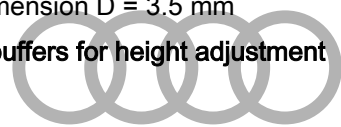
Gap widths at bonnet

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- ◆ Dimension A = 4.5 mm
- ◆ Dimension B = 4.5 mm
- ◆ Dimension C = 4.5 mm
- ◆ Dimension D = 3.5 mm

Stop buffers for height adjustment



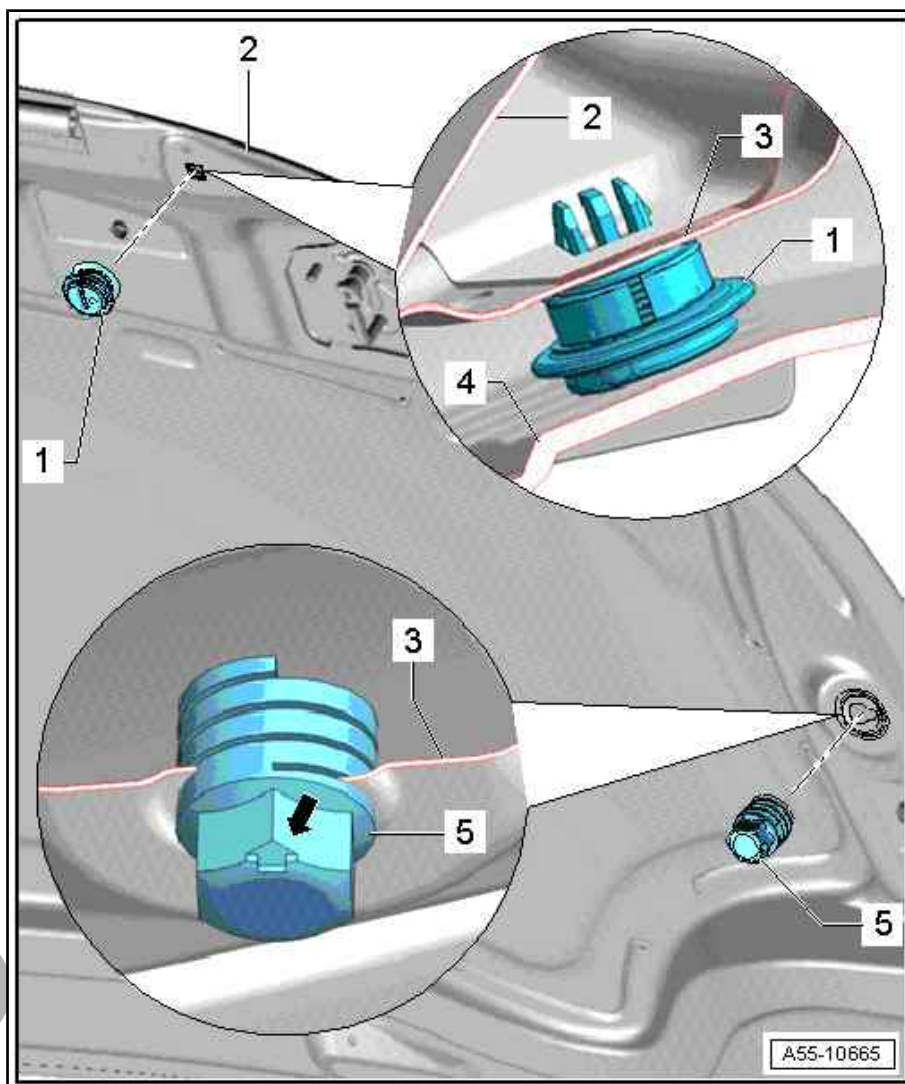
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**1 - Adjusting buffer**

- Clip into inner section of bonnet
- Adjust position of bonnet via adjusting buffers according to wing panels and body contour.

2 - Bonnet**3 - Inner section****4 - Radiator grille****5 - Stop buffer**

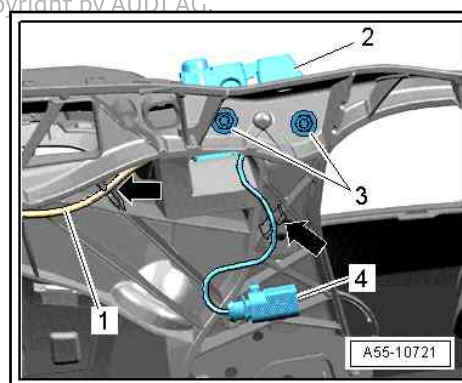
- When bonnet is closed, stop buffers must rest on lock carrier.



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1.5 Removing and installing bonnet lock**Removing**

- Right-side: Disengage filler neck for washer fluid reservoir → Electrical system; Rep. gr. 92 ; Windscreen washer system; Exploded view - windscreen washer system .
- Unplug electrical connector -4- for anti-theft alarm system and move clear.
- Pull connector off lock carrier.
- Remove bolts -3-.
- Guide bonnet lock -2- out of lock carrier towards engine compartment.





- Release retaining hook at Bowden cable -left arrow- and slide downwards out of bonnet lock -1- with guide.
- Disengage nipple of Bowden cable from operating lever -right arrow-.

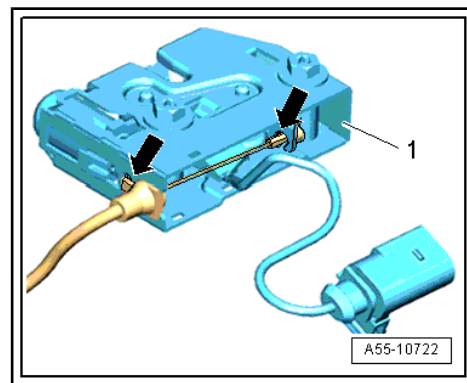
Installing

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



Note

Adjust the height of the bonnet by moving the bonnet lock into the elongated holes in the lock carrier.



Tightening torques

- ◆ ⇒ [“1.1.4 Exploded view - bonnet lock”, page 21](#)

1.6 Removing and installing operating lever for bonnet lock

Removing

- Use a small screwdriver to pull securing clip -2- slightly out of operating lever -1- -arrow A-.
- Pull operating lever to rear -arrow B- (this releases the bonnet) and hold in this position.



Caution

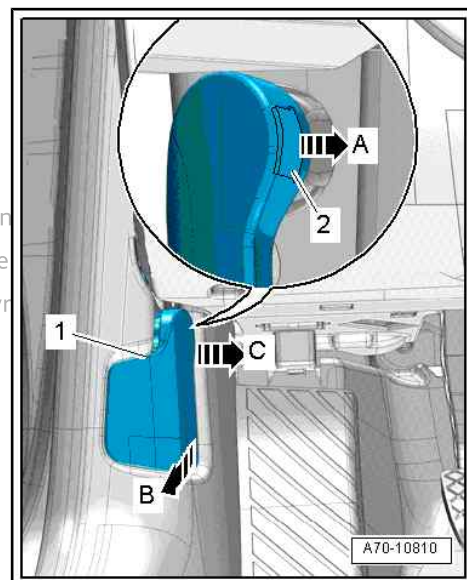
If operating lever is pulled out at an angle, mounting could be damaged.

- At the same time, detach operating lever from its mounting towards centre of vehicle, taking care to keep it absolutely horizontal -arrow C-.

Installing

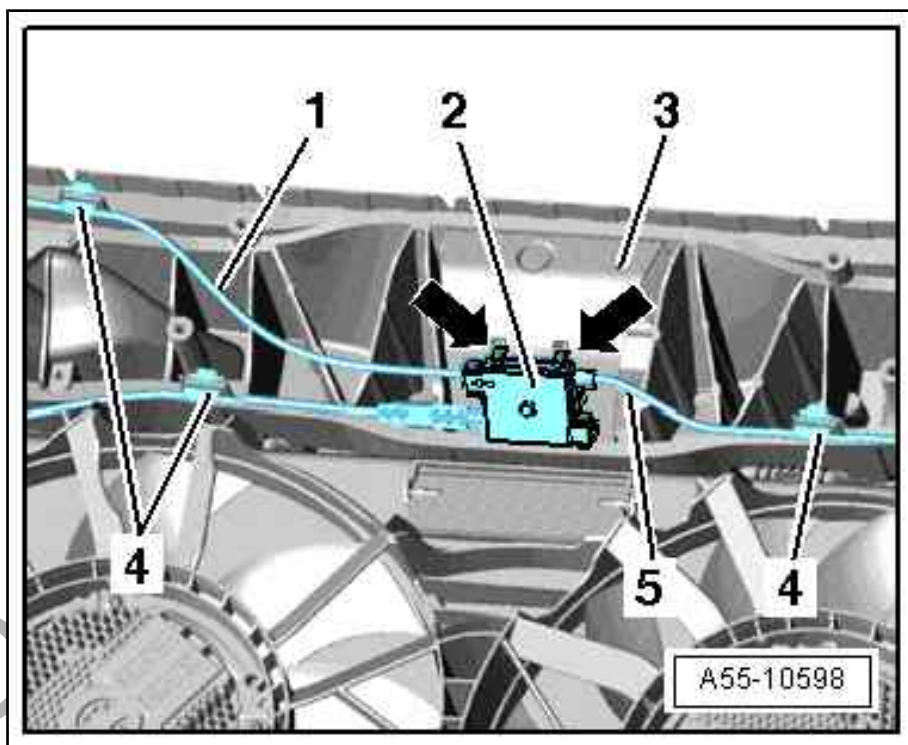
Installation is carried out in reverse order; note the following:

- Fully insert retaining clip into operating lever.
- Press operating lever onto mounting in mounting bracket and engage.



1.7 Removing and installing Bowden cable

Coupling unit for Bowden cable

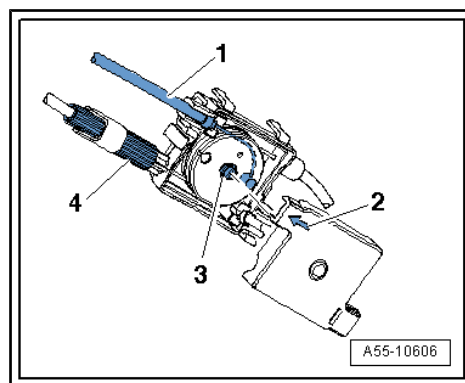


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- Pull Bowden cables (front -5- and rear -1-) on both sides out of retaining clips -4-.
- To remove, release catches -arrows- at lock carrier from front and push coupling unit towards rear and out of bracket for arrester.
- When installing in bracket for arrester, catches must engage audibly.

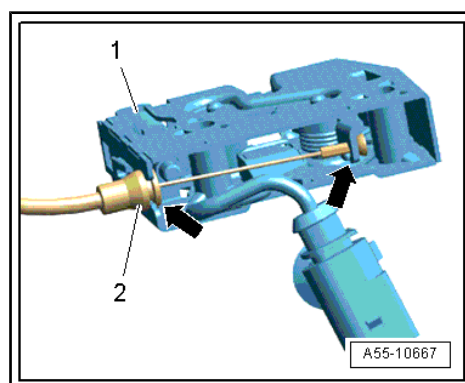
Engaging Bowden cable in coupling unit

- Engage Bowden cable -1- to vehicle interior in roller -3- of coupling unit, as shown.
- Press Bowden cable into mounting on housing.
- Press housing cover -2- on so that arrow points in direction of Bowden cable -1- to vehicle interior.
- Adjust Bowden cable via collar -4- so that bonnet locks are released simultaneously.



Engaging Bowden cable in bonnet lock

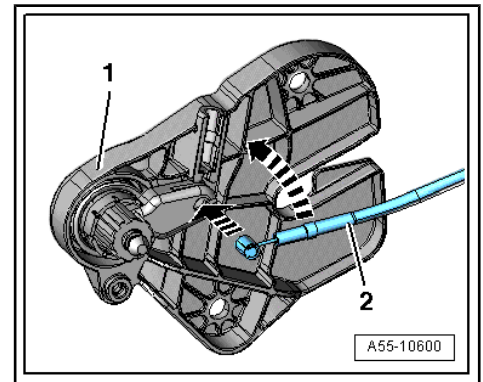
- Insert nipple of Bowden cable -2- into operating lever -right arrow- of bonnet lock -1-.
- Slide Bowden cable with guide into bonnet lock from below; catch -left arrow- should engage.



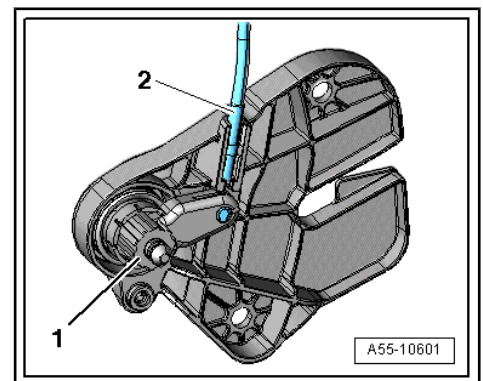


Engaging Bowden cable in operating lever

- Insert Bowden cable -2- in operating lever -1- from side in direction of -arrow-.



- Swivel Bowden cable -2- upwards as shown and clip it into support bracket of operating lever -1-.

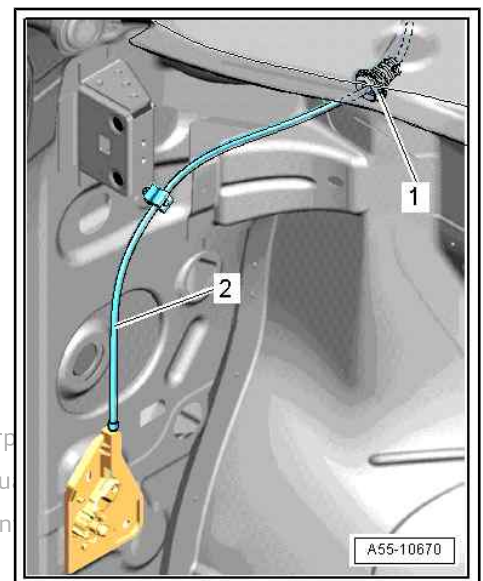


Routing of Bowden cable in vehicle interior

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



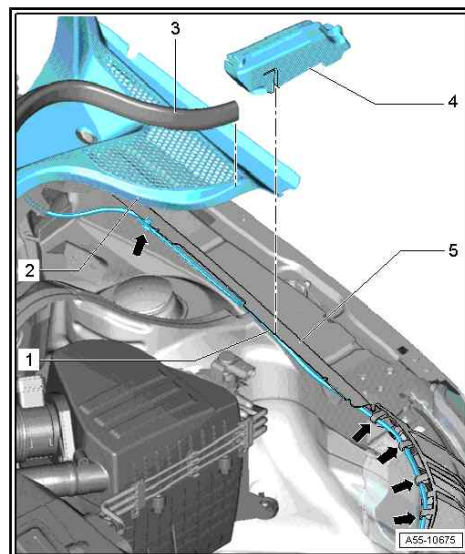
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Routing of Bowden cable in engine compartment

- Seal -3- and plenum chamber cover -2- removed.
- Starting from interior, route Bowden cable -1- in engine compartment along wing mounting flange -5- (as shown).
- Clip Bowden cable completely into fasteners -arrows-.
- Push coupling unit into lock carrier ⇒ [page 29](#) .



1.8 Removing and installing striker

Removing

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

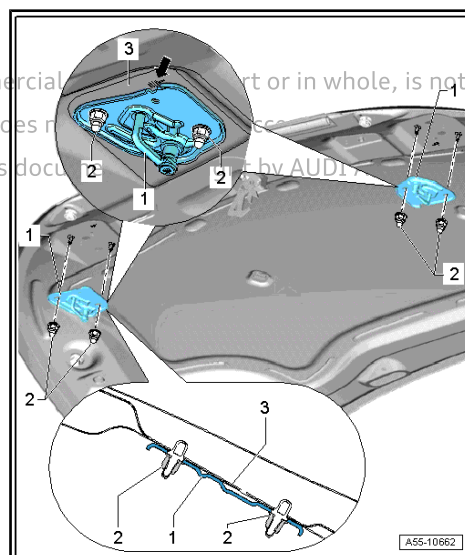
Installing

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

- Align striker at sides according to marks -arrow- in bonnet -3-.

Tightening torques

⇒ [Item 9 \(page 18\)](#)



1.9 Removing and installing hinges

Removing

- Remove wheel housing liner ⇒ [page 269](#) .
- Support bonnet -3- or secure it in position.
- Remove gas strut ⇒ [page 33](#) .
- Remove nuts -2-.
- Unscrew bolts -4- from wheel housing side.
- Remove bonnet hinge -1- upwards from wing mounting flange -5-.

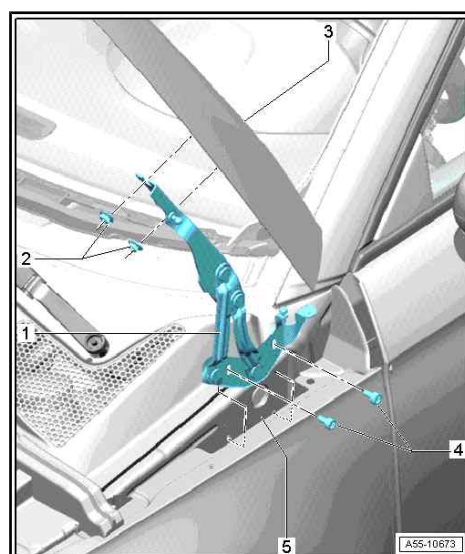
Installing

Installation is carried out in reverse sequence.

Tightening torques

⇒ [Item 2 \(page 18\)](#)

⇒ [Item 4 \(page 18\)](#)





1.10 Removing and installing insulation

Removing

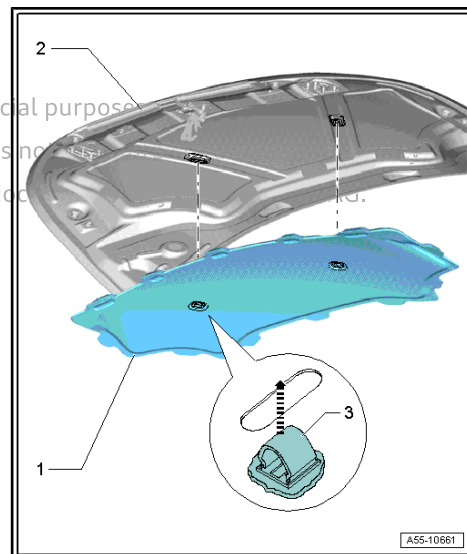
- Release clip -3- and detach.

- Detach insulation -1- from bonnet -2-.

Installing

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

- First push lugs on rear edge of insulation into holes provided on inner panel.
- Push in lugs on front edge and side.
- Insert clip and press in until it engages audibly.



1.11 Removing and installing gas strut

Removing

- Support bonnet or secure it in position.
- Lift retaining clip -arrow- slightly using a small screwdriver, and pull gas strut -1- off ball-head pin -2-.
- Perform same steps at ball-head pin (bottom).

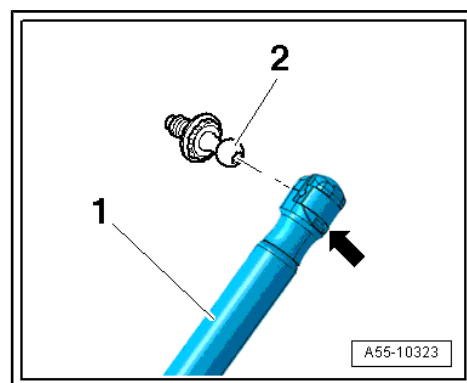
Installing



Note

If gas strut has been completely removed make sure it is re-installed in the correct position. The cylinder end of the gas strut must be engaged on the body side.

- Press gas strut onto ball-head pin and make sure it engages.



1.12 Releasing gas from gas strut

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



WARNING

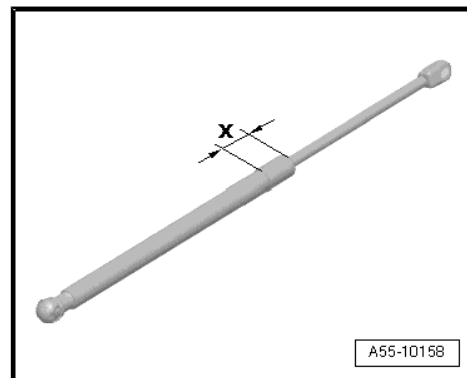
- ◆ *Only the section indicated may be clamped in the vice (accident risk!).*
- ◆ *Always wear safety goggles while sawing.*



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.





2 Rear lid

⇒ ["2.1 Exploded view - rear lid", page 34](#) for private or commercial purposes, in part or in whole, is not

⇒ ["2.2 Adjusting rear lid", page 38](#) by AUDI AG. AUDI AG does not guarantee or accept any liability

⇒ ["2.3 Removing and installing hinges", page 40](#) with respect to the accuracy of the information in this document. Copyright by AUDI AG.

⇒ ["2.4 Removing and installing rear lid lock", page 42](#)

⇒ ["2.5 Removing and installing rear lid seal", page 42](#)

⇒ ["2.6 Removing and installing gas strut", page 43](#)

⇒ ["2.7 Releasing gas from gas strut", page 43](#)

2.1 Exploded view - rear lid

⇒ ["2.1.1 Exploded view - rear lid", page 34](#)

⇒ ["2.1.2 Exploded view - rear lid, gas strut", page 36](#)

⇒ ["2.1.3 Exploded view - rear lid, rear lid hinge", page 37](#)

⇒ ["2.1.4 Exploded view - rear lid seal", page 38](#)

2.1.1 Exploded view - rear lid

1 - Rear lid

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

□ Removing:

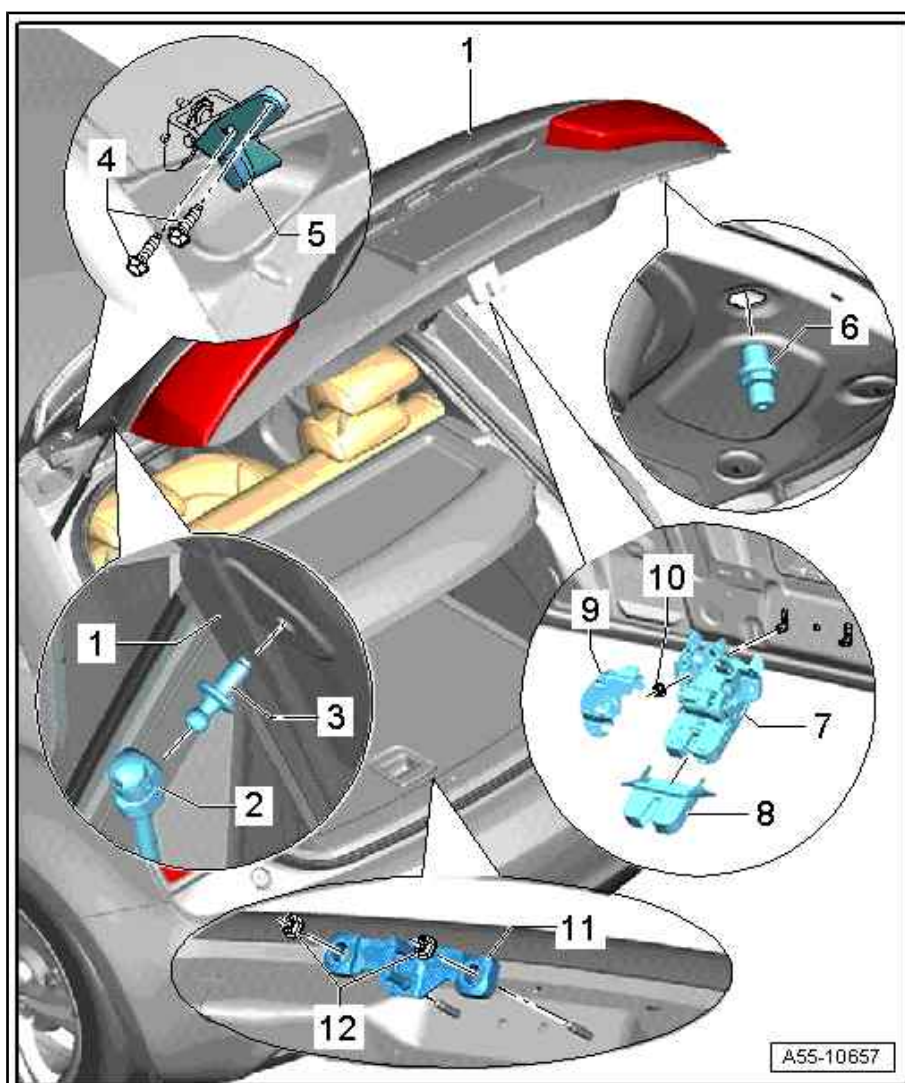
- Remove lining for rear lid ⇒ General body repairs, interior; Rep. gr. 70 ; Luggage compartment trim panels; Removing and installing rear lid trim (top) .
- Disconnect wiring and pull out of rear lid.
- Only loosen rear nut on rear lid hinge and unscrew the two nuts on the side ⇒ [page 40](#) .

- Remove rear lid.

□ Installing: in reverse order of removal

□ Adjusting:

- Adjust height of rear lid at front and adjust lengthwise via rear lid hinge.
- Adjust height at rear lid lock via striker plate.
- Align rear lid centrally with equal gaps on both sides / to specified gap widths ⇒ [page 38](#) .





- Adjust stop buffers.

- ☐ Removing and installing rear lid seal ⇒ [page 42](#)

2 - Gas strut

- ☐ Exploded view ⇒ [page 36](#)

3 - Ball-head pin

- ☐ 18 Nm

4 - Bolt

- ☐ 18 Nm

5 - Rear lid hinge

- ☐ Removing and installing

6 - Adjusting buffer

- ☐ To remove, loosen using 24 mm tool insert (anti-clockwise) and pull out
- ☐ When installing, insert in shaped hole and lock by turning clockwise as far as stop

7 - Rear lid lock

- ☐ Removing and installing ⇒ [page 42](#)

8 - Cap for rear lid lock

- ☐ Detach before removing rear lid trim
- ☐ Cap should engage audibly in rear lid lock on installation.

9 - Cover

- ☐ When installing, press cover onto lock until clip engages audibly.

10 - Nuts

- ☐ 21 Nm

11 - Striker plate

- ☐ Adjusting:
 - Hand-tighten bolts with washers ⇒ [Item 10 \(page 35\)](#) (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 10 \(page 35\)](#) .

12 - Nuts

- ☐ 21 Nm



2.1.2 Exploded view - rear lid, gas strut

1 - Gas strut

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

- ❑ Releasing gas
⇒ [page 43](#)

2 - Rear lid

permitted unless

3 - Ball-head pin

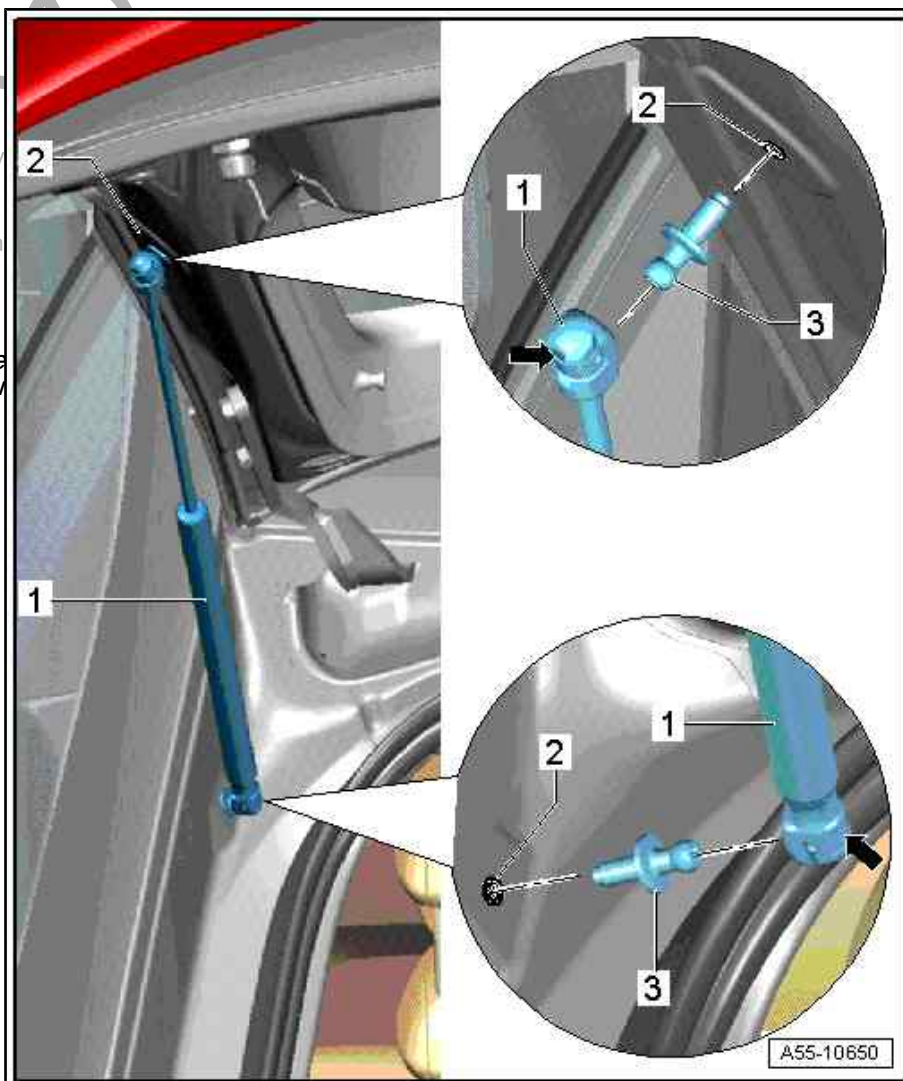
with respect to th

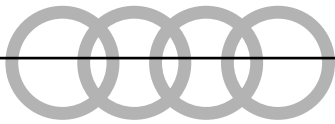


Note

*If ball-head pin has been
or adjusted, it must be*

- ❑ 21 Nm





2.1.3 Exploded view - rear lid, rear lid hinge

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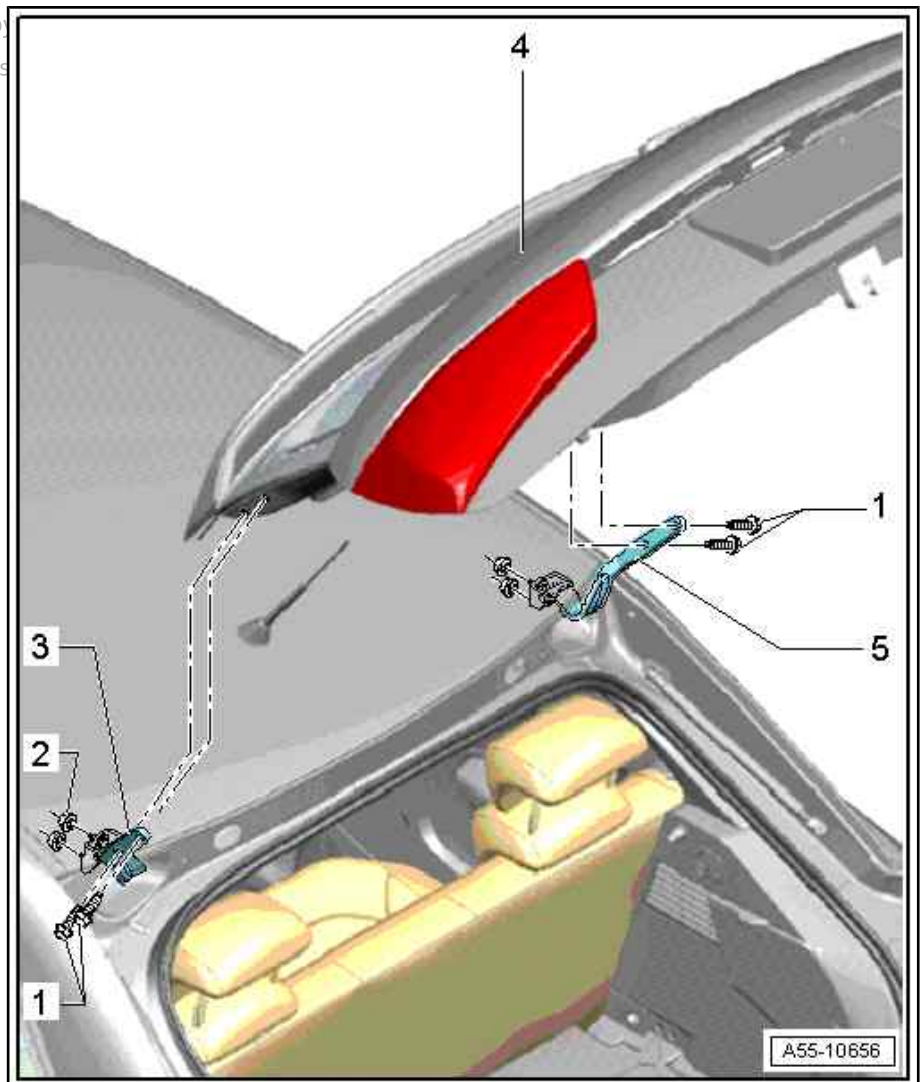
1 - Bolt
☐ 21 Nm

2 - Nut
☐ 21 Nm

3 - Rear lid hinge (left-side)
☐ Removing and installing
⇒ [page 40](#)

4 - Rear lid

5 - Rear lid hinge (right-side)
☐ Removing and installing
⇒ [page 40](#)





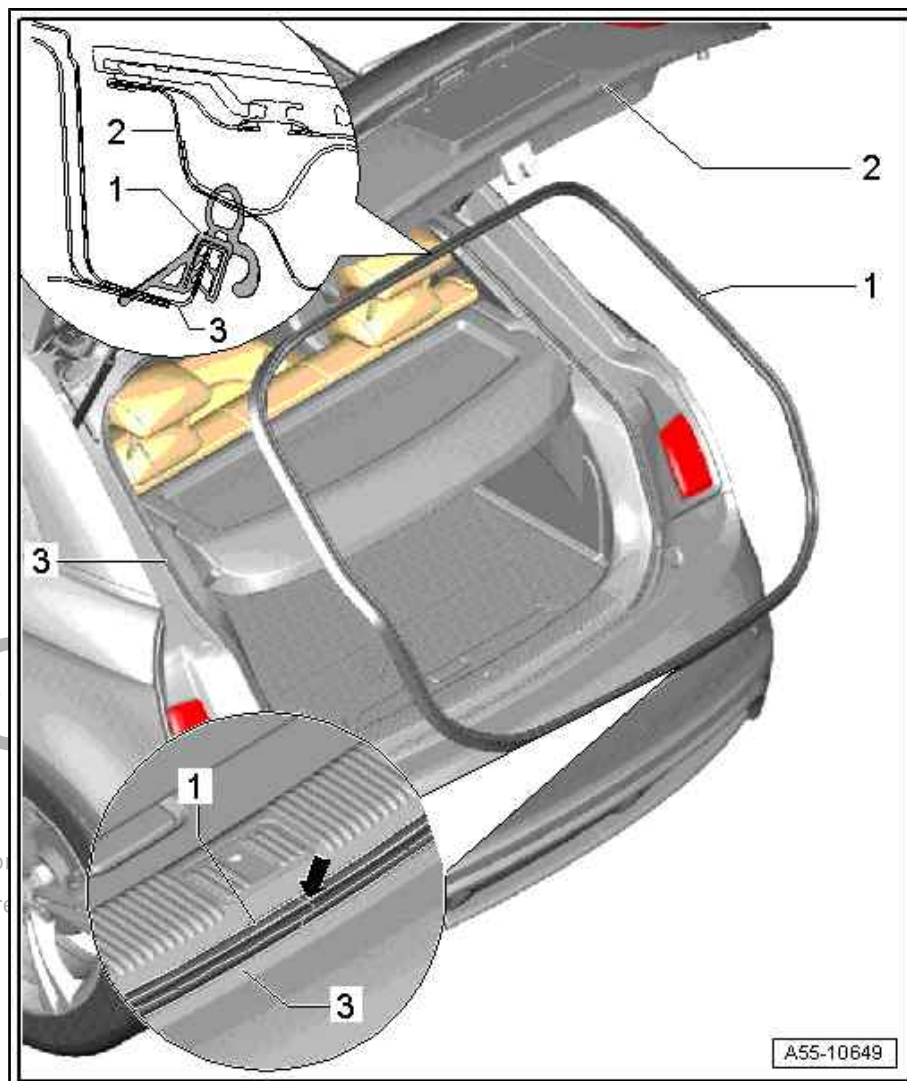
2.1.4 Exploded view - rear lid seal

1 - Rear lid

2 - Rear lid seal

□ Removing and installing
⇒ [page 42](#)

3 - Body flange



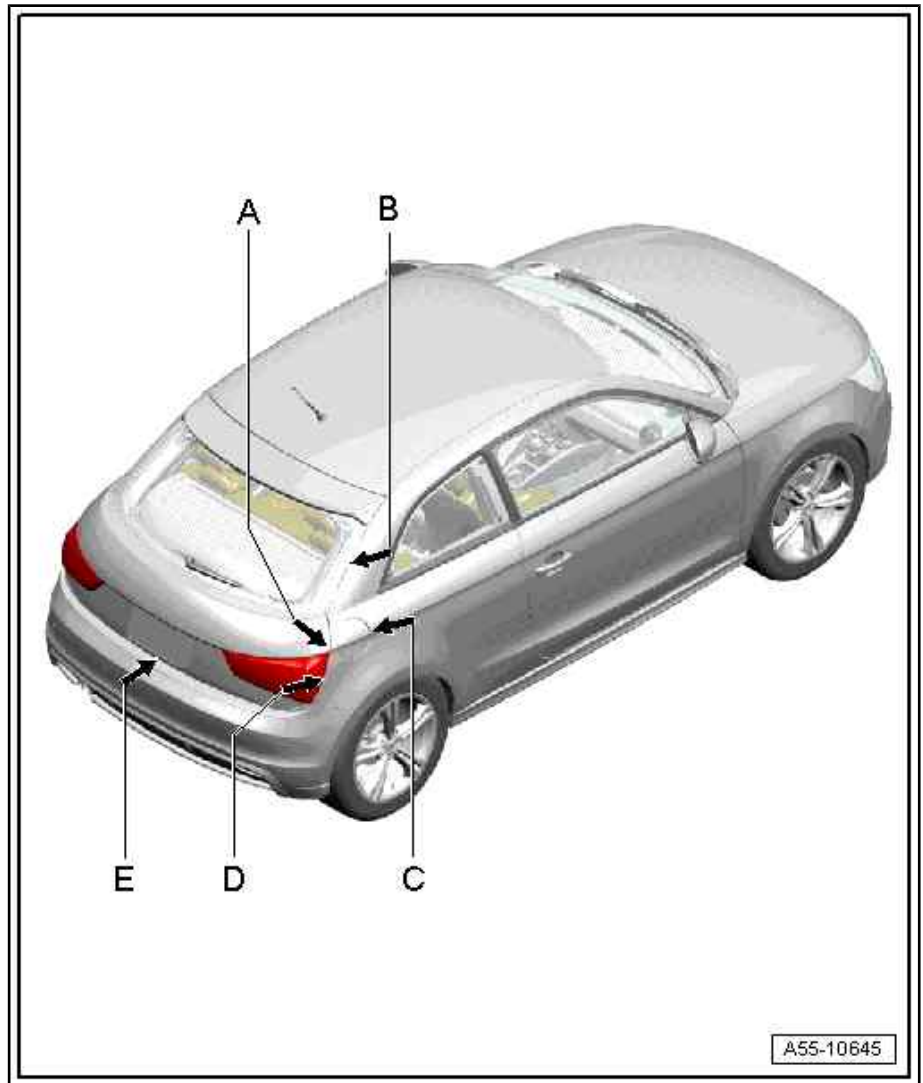
2.2 Adjusting rear lid

Special tools and workshop equipment required

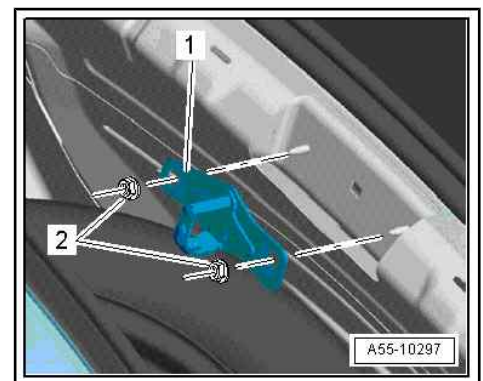
◆ Setting gauge - 3371-



Gap widths for rear lid



- ◆ In area -A- = $4.5 \text{ mm} \pm 0.5 \text{ mm}$
- ◆ In area -B- = $4 \text{ mm} \pm 0.5 \text{ mm}$
- ◆ In area -C- = 2.3 mm all around
- ◆ In area -D- = $5.0 \text{ mm} \pm 0.5 \text{ mm}$
- ◆ In area -E- = $5.5 \text{ mm} \pm 0.5 \text{ mm}$
- Height of rear lid at rear end can be adjusted by moving striker plate -1-.
- Loosen nut -2-, move striker plate as appropriate and tighten nuts to specified torque [⇒ Item 12 \(page 35\)](#).





2.3 Removing and installing hinges

1 - Bolt

- 21 Nm

2 - Nut

- 21 Nm

3 - Rear lid hinge (left-side)



Note

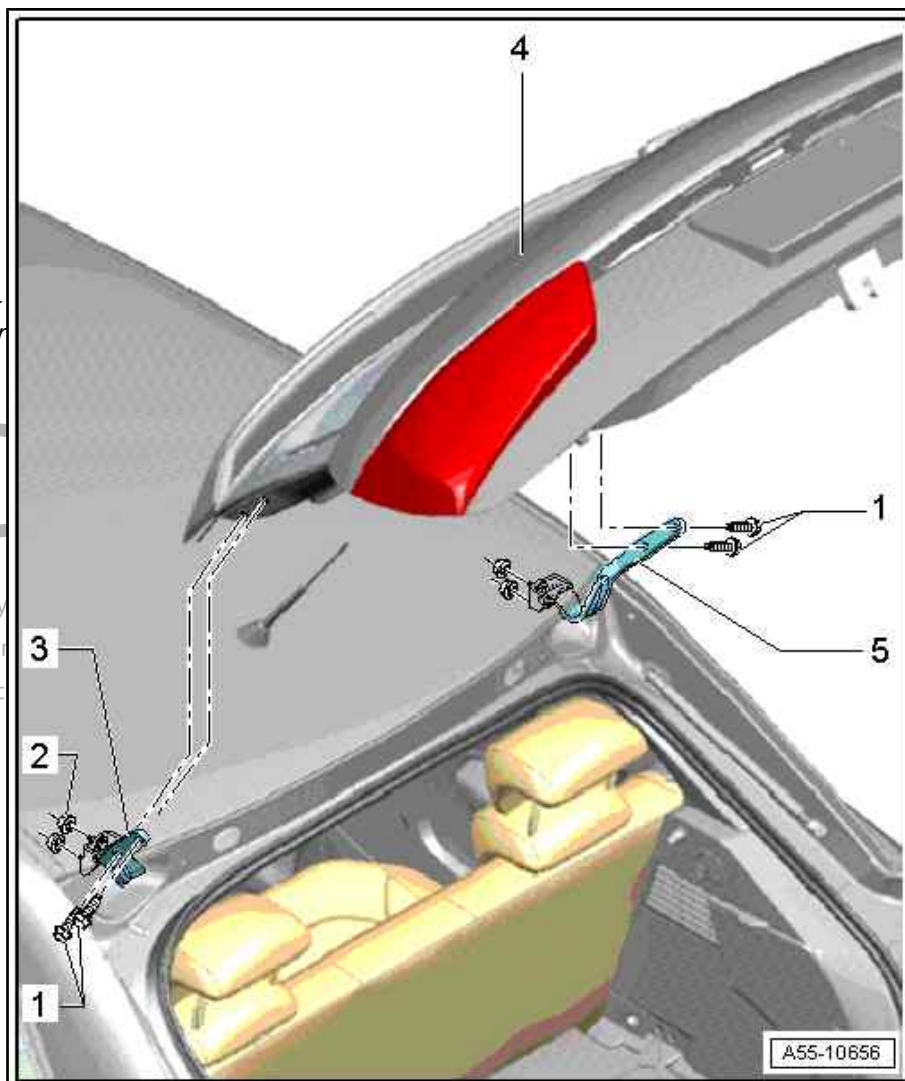
Before removing, mark hinge on body and rear lid.

□ Removing:

- Unscrew bolts from rear lid.
- Lower headliner around hinge, unscrew nuts and take out hinge.

□ Installing:

- Insert hinge according to marks and secure with nuts.
- Position rear lid on hinge and secure with nuts.
- Engage gas strut.
- Carefully close rear lid.
- Align rear lid at sides and lengthwise.
- Tighten nuts and bolts to specified torque.



4 - Rear lid

5 - Rear lid hinge (right-side)

Removing cover for rear lid hinge



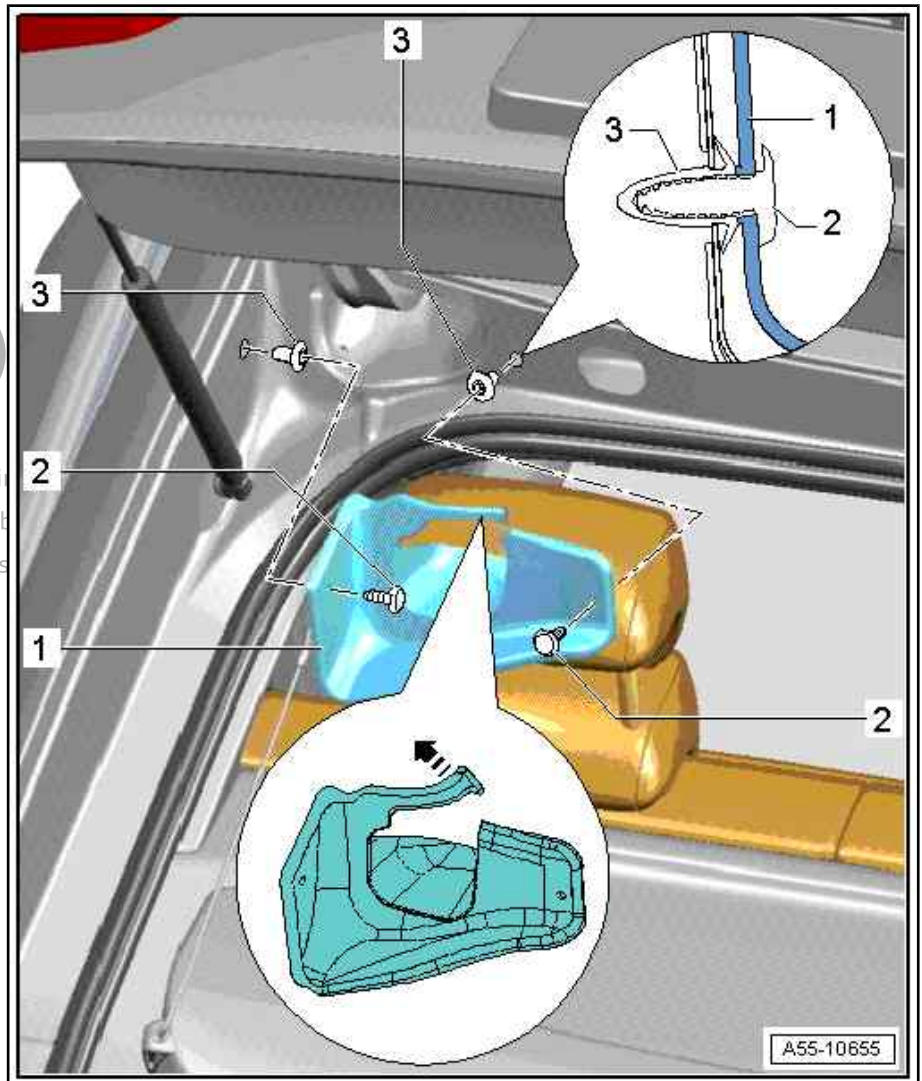
1 - Cover

- ☐ Remove clip at roof and then clip at B-pillar.
- ☐ Disengage support (top) in direction of -arrow- and pull cover over hinge.
- To install, slide cover over hinge, engage support and press into position.
- Secure cover with clip.

2 - Clip

3 - Grommet

- ☐ Press into body





2.4 Removing and installing rear lid lock

1 - Cap for rear lid lock

- ☐ Before removing rear lid trim, detach from rear lid lock.
- ☐ Must engage audibly during installation

2 - 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 (top) .
- ☐ Unplug electrical connector.
- ☐ Unscrew nuts and detach rear lid lock.
- ☐ Pull rear lid lock with clip out of centring hole.

3 - Nut

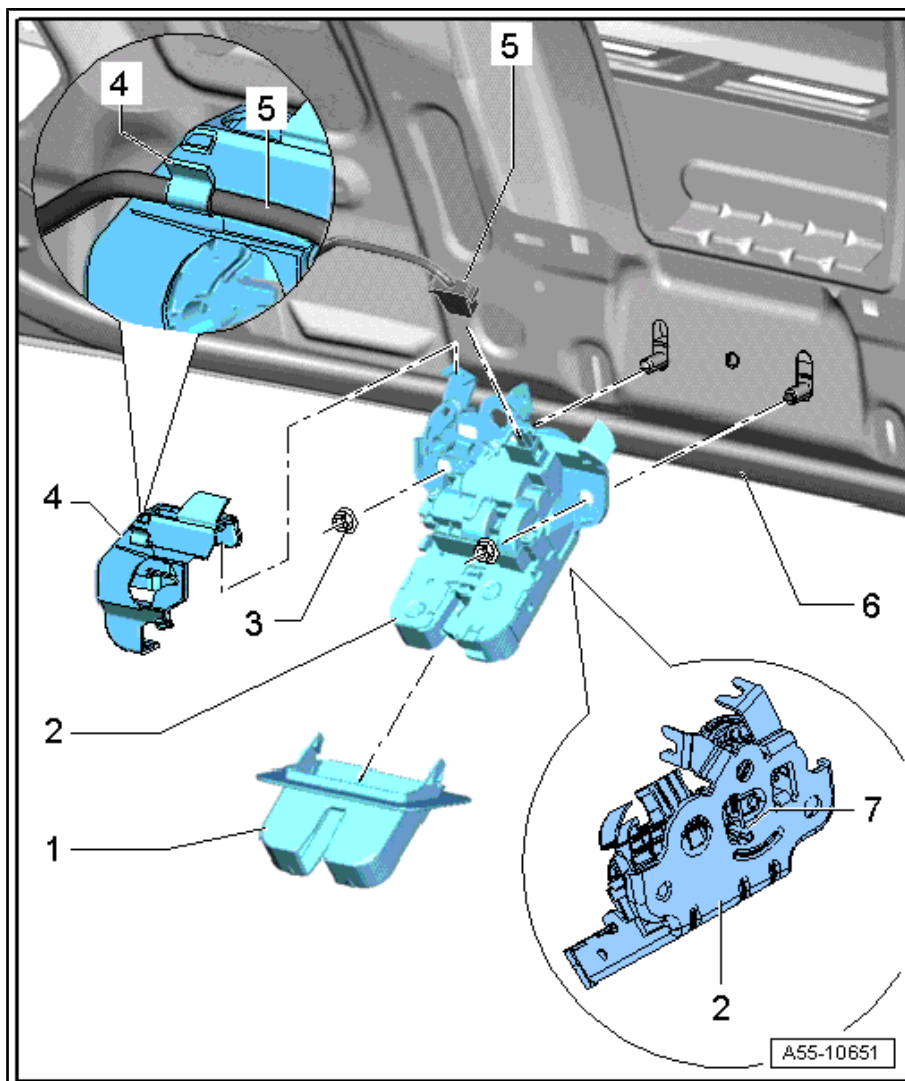
- ☐ 21 Nm

4 - Cover

- ☐ Press cover onto lock until clip engages audibly in rear lid lock.

5 - Wiring harness

6 - Rear lid



2.5 Removing and installing rear lid seal

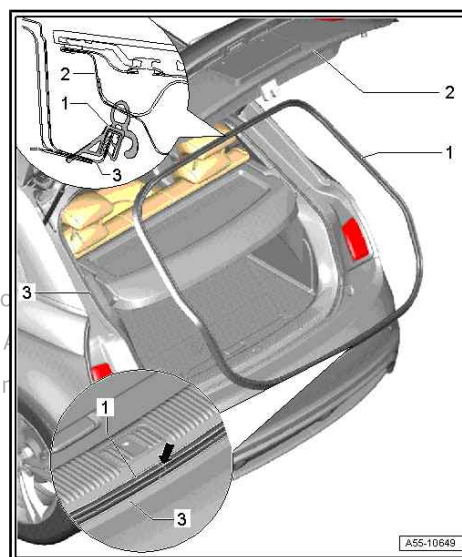
Removing

- Detach seal -1- from body flange -3-.

Installing

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

- Release bumper cover and pull it slightly towards rear ⇒ [page 175](#) .
- Align seal so that butt joint arrow is in centre of vehicle.
- Starting from butt joint, press seal onto body flange all around.
- Install bumper cover.





2.6 Removing and installing gas strut

Removing

- Support rear lid or secure it in position.
- Lift retaining clip -arrow- slightly using a small screwdriver, and pull gas strut -1- off ball-head pin -2-.
- Perform same steps at ball-head pin (bottom).

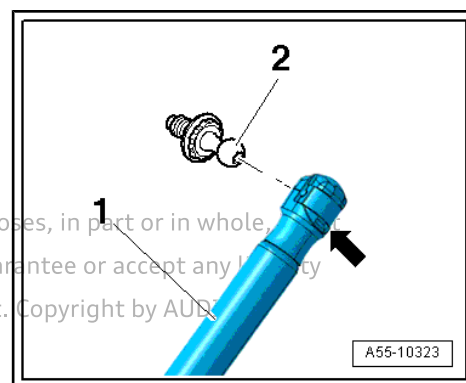
Installing



Note

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

To install, press gas strut ball sockets onto ball-head pins (turn ball sockets while pressing them on).



2.7 Releasing gas from gas strut

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



WARNING

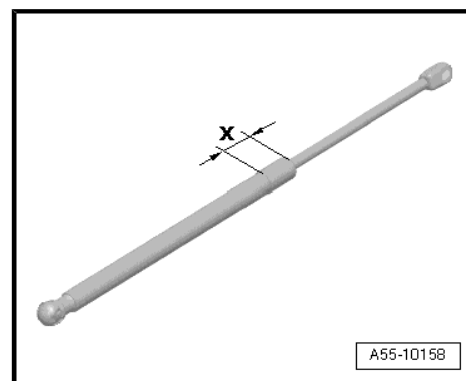
- ◆ *Only the section indicated may be clamped in the vice (accident risk!).*
- ◆ *Always wear safety goggles while sawing.*



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.





3 Tank flap unit

⇒ [“3.1 Exploded view - tank flap unit”, page 44](#)

⇒ [“3.2 Removing and installing tank flap unit”, page 46](#)

3.1 Exploded view - tank flap unit

⇒ [“3.1.1 Exploded view - tank flap unit”, page 44](#)

⇒ [“3.1.2 Exploded view - manual release for tank flap”, page 45](#)

⇒ [“3.1.3 Exploded view - drain hose for tank flap unit”, page 46](#)

3.1.1 Exploded view - tank flap unit

1 - Bowden cable for manual release

2 - Bolts

- 1.5 Nm

3 - Tank filler flap locking motor - V 155-

□ Removing:

- Tank flap removed
- Detach Bowden cable in luggage compartment and pull through towards front.

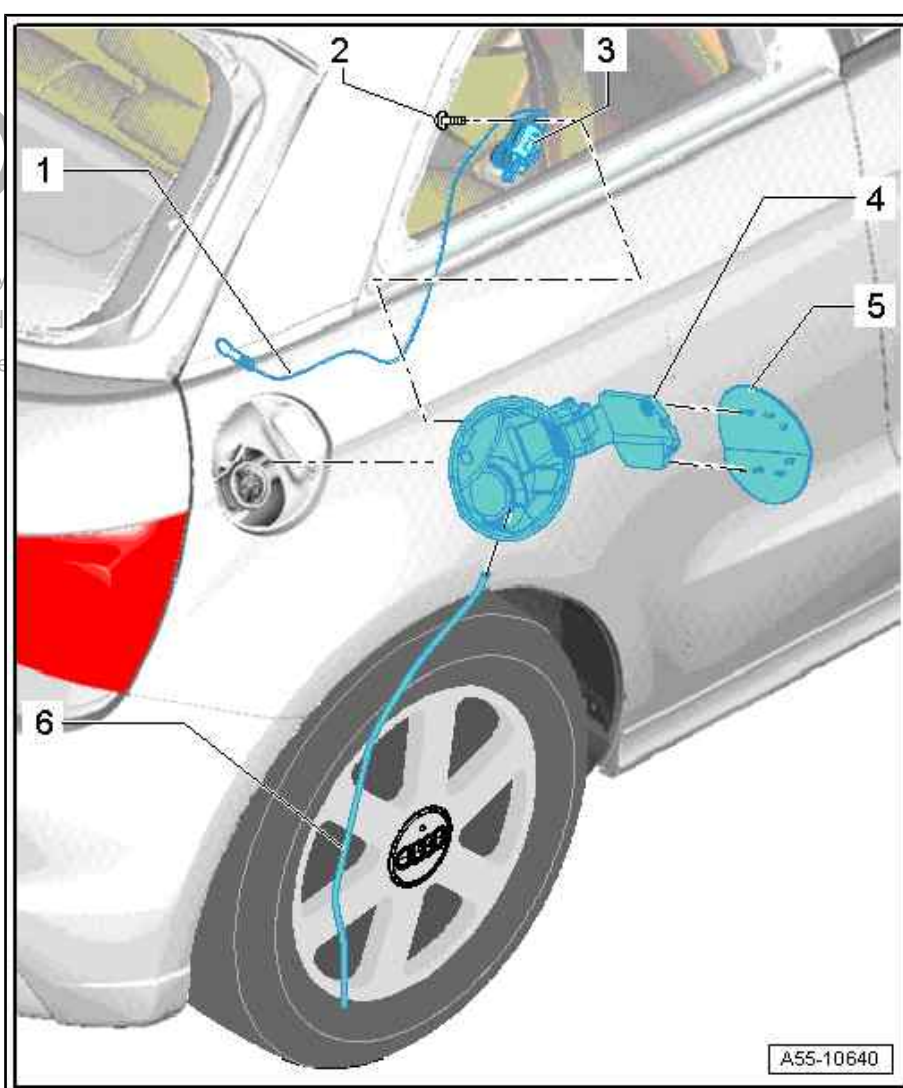
- Unscrew bolts from tank filler flap locking motor - V 155- and detach motor.

□ Installing:

- Fit tank filler flap locking motor - V 155- on tank flap cup and secure with bolts.

4 - Tank flap unit

- Must be renewed following removal
- Guide Bowden cable through opening in tank flap cup.
- Insert tank flap at an angle until retaining tabs engage at flange in side panel.



⇒ [“3.2 Removing and installing tank flap unit”, page 46](#)

5 - Lid for tank flap

⇒ [“3.2.2 Removing and installing lid for tank flap”, page 48](#)

6 - Drain hose



3.1.2 Exploded view - manual release for tank flap

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with respect to the

1 - Tank filler flap locking motor - V 155-

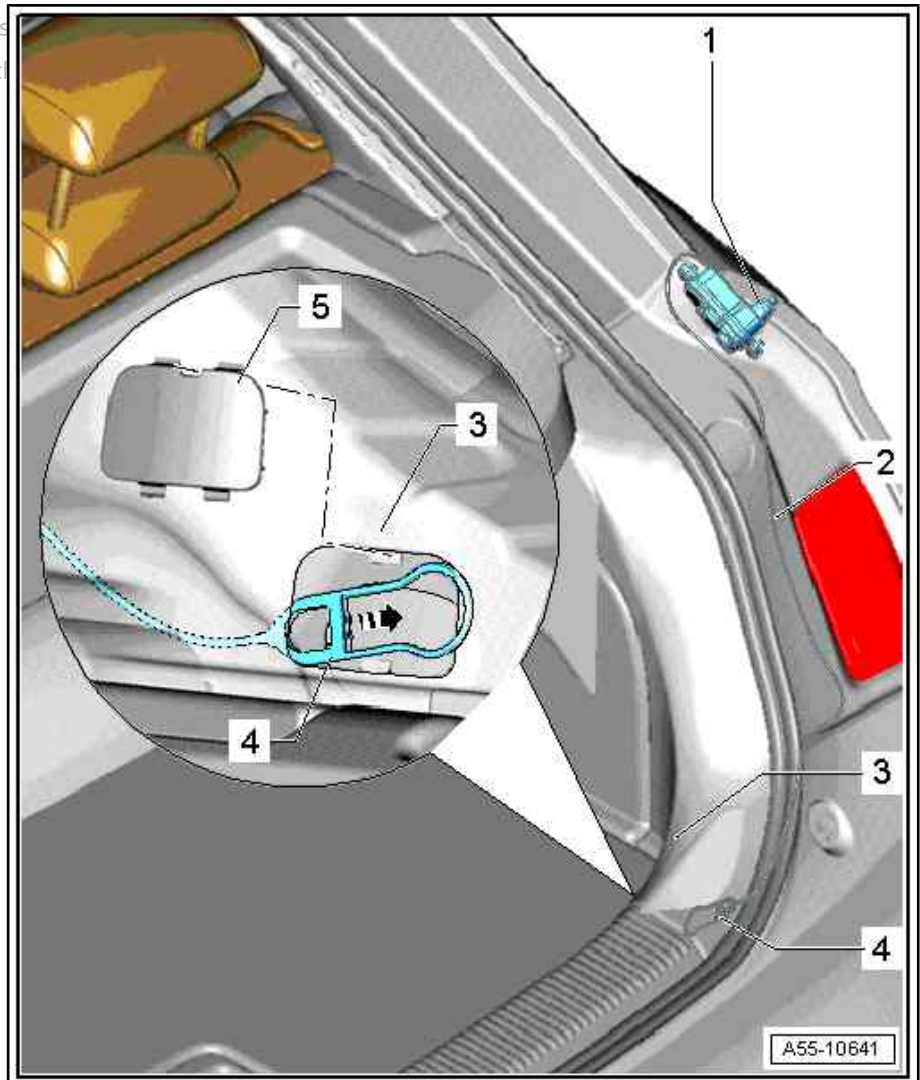
2 - Bowden cable for manual release

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

3 - Side panel

4 - Lug

- ☐ For Bowden cable for manual release





3.1.3 Exploded view - drain hose for tank flap unit

1 - Drain hose

- Route drain hose under wheel housing liner, as shown, and insert into clip on bumper (bottom).

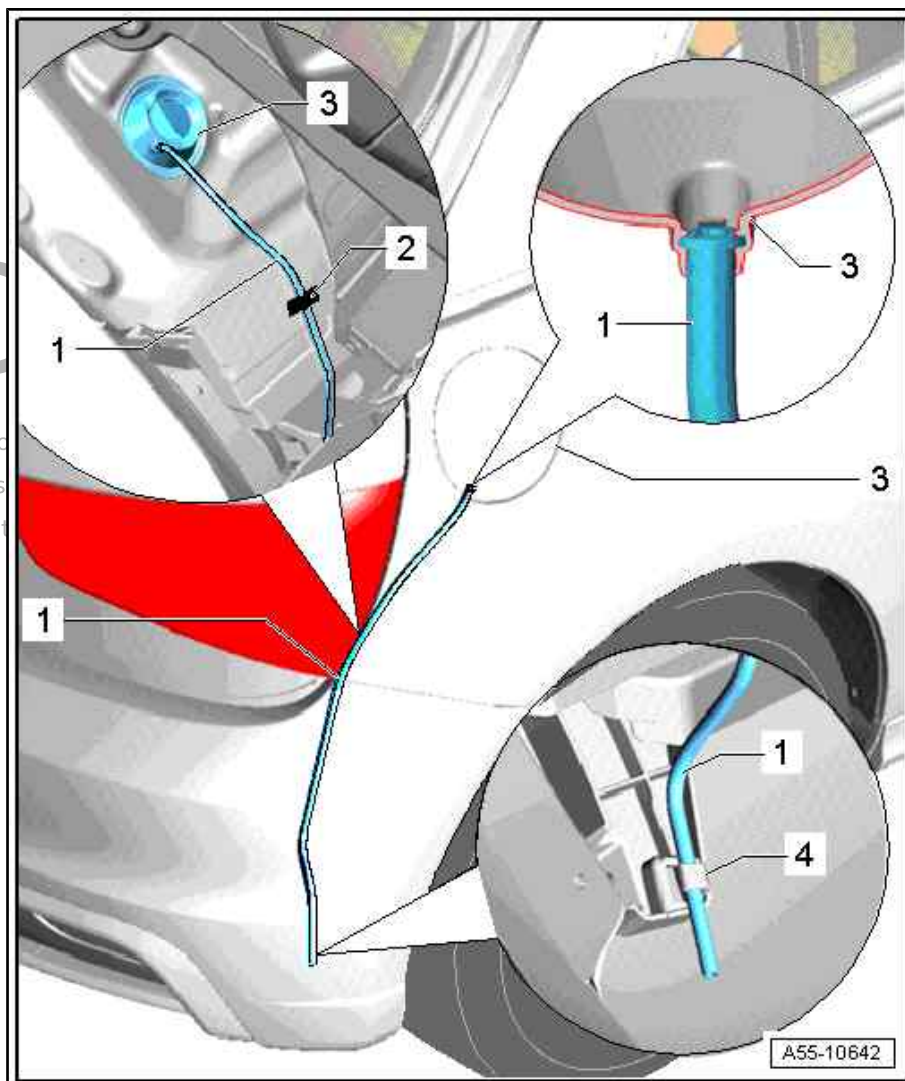
2 - Adhesive tape

- ☐ Secure drain hose as shown.

3 - Tank flap cup

4 - Clip on bumper (bottom)

- ☐ Clip drain hose onto bumper (bottom) as shown.
- ☐ Release wheel housing liner in area of drain hose and push to side.



3.2 Removing and installing tank flap unit

⇒ [“3.2.1 Removing and installing tank flap unit”, page 46](#)

⇒ [“3.2.2 Removing and installing lid for tank flap”, page 48](#)

3.2.1 Removing and installing tank flap unit



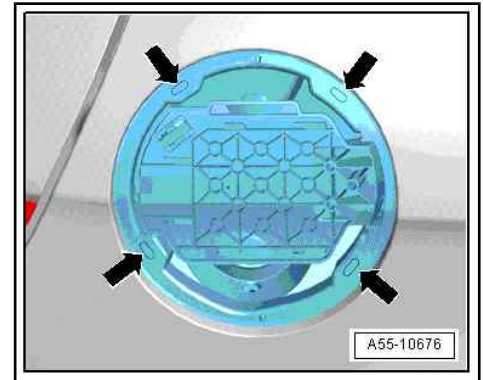
Note

Tank flap unit must be renewed following removal.



Removing

- First release tank flap at marked locations -arrows-.



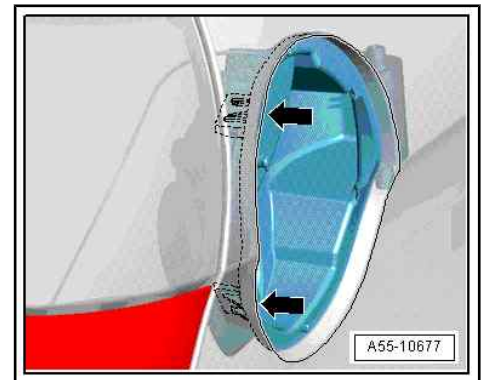
- To do so, insert a small screwdriver through marked locations into tank flap from below at an angle and over catches (in direction of arrows).
- Pull screwdriver upwards slightly to release catches behind.
- Pull tank flap out of opening (one catch at a time).

Installing

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



Tank flap unit must be renewed following removal.



Installation position of tank flap



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1 - Side panel

2 - Lid for tank flap

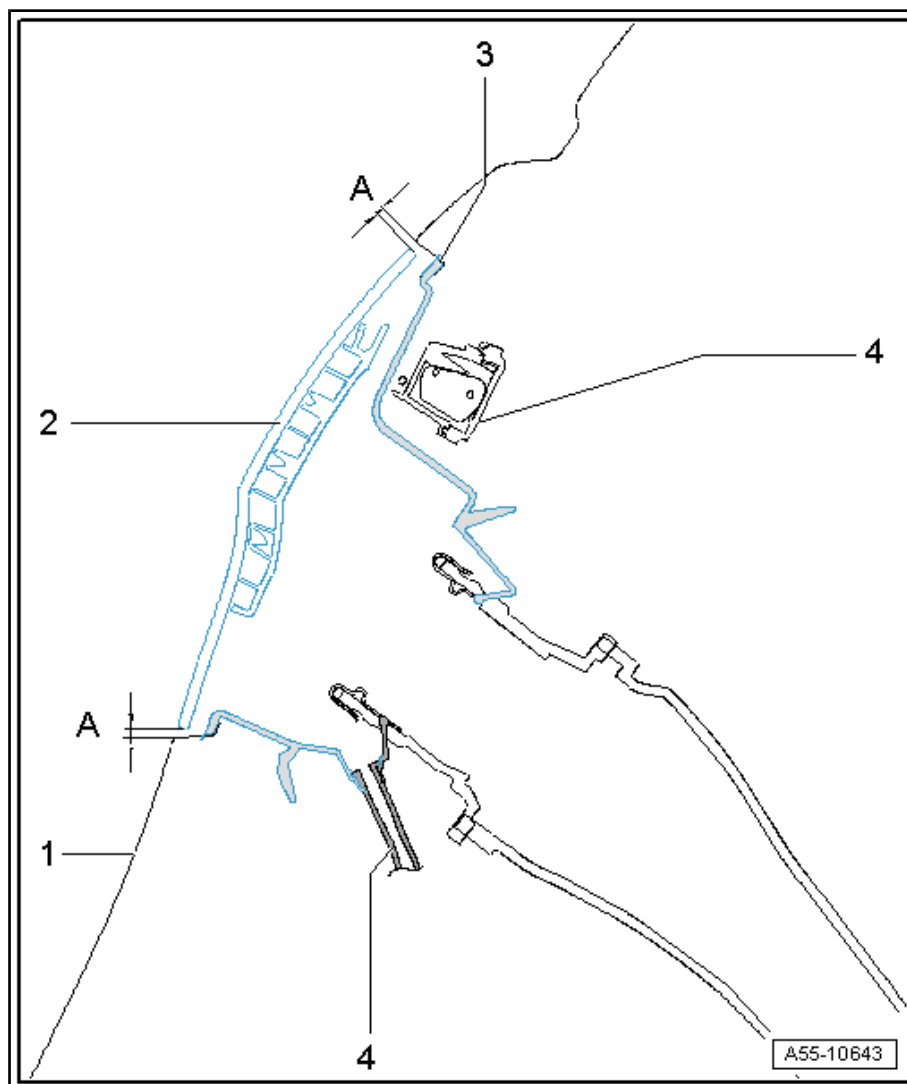
- Adjust distance -A- = 2.2 mm (even distance from side panel).

3 - Tank flap cup

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

4 - Drain hose

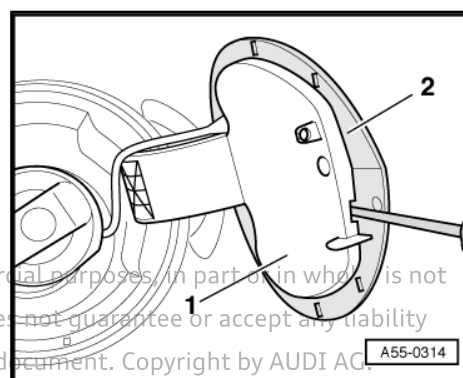
- Route without kinking



3.2.2 Removing and installing lid for tank flap

Removing

- Open tank flap.
- Using a screwdriver, release retaining clip in recess between lid -2- and tank flap -1-.
- Pull lid slightly off tank flap towards rear and detach.



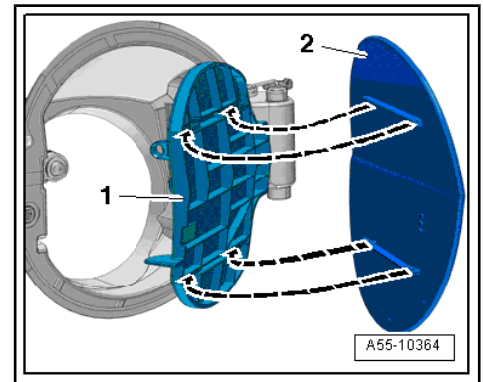
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Installing

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

- When fitting lid onto tank flap -1-, guides on lid -2- must be applied behind mounting points -arrows-, as shown in illustration.
- Slide lid forwards until retaining clip engages audibly.



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57 – Front doors, door components, central locking

1 Door

⇒ "1.1 Exploded view - door", page 50

⇒ "1.2 Exploded view - door seals", page 52

⇒ "1.3 Removing and installing door", page 54

⇒ "1.4 Removing and installing door arrester", page 54

⇒ "1.5 Adjusting door", page 55

⇒ "1.6 Adjusting striker", page 59

⇒ "1.7 Removing and installing inner door seal", page 59

⇒ "1.8 Removing and installing outer door seal", page 60

1.1 Exploded view - door

⇒ "1.1.1 Exploded view - door", page 50

⇒ "1.1.2 Exploded view - door arrester", page 51

1.1.1 Exploded view - door

1 - Door

- ❑ Remove door trim ⇒
General body repairs,
interior; Rep. gr. 70 ;
Door trim (front); Re-
moving and installing
door trim (front) .

2 - Bolt

- ❑ Tightening torque
⇒ [page 51](#)

3 - Door arrester

- ❑ Exploded view
⇒ [page 51](#) .

4 - Cap

- ❑ Fit onto stud

5 - Stud

- ❑ 23 Nm

6 - Door hinge (top)

7 - Bolt

- ❑ 32 Nm

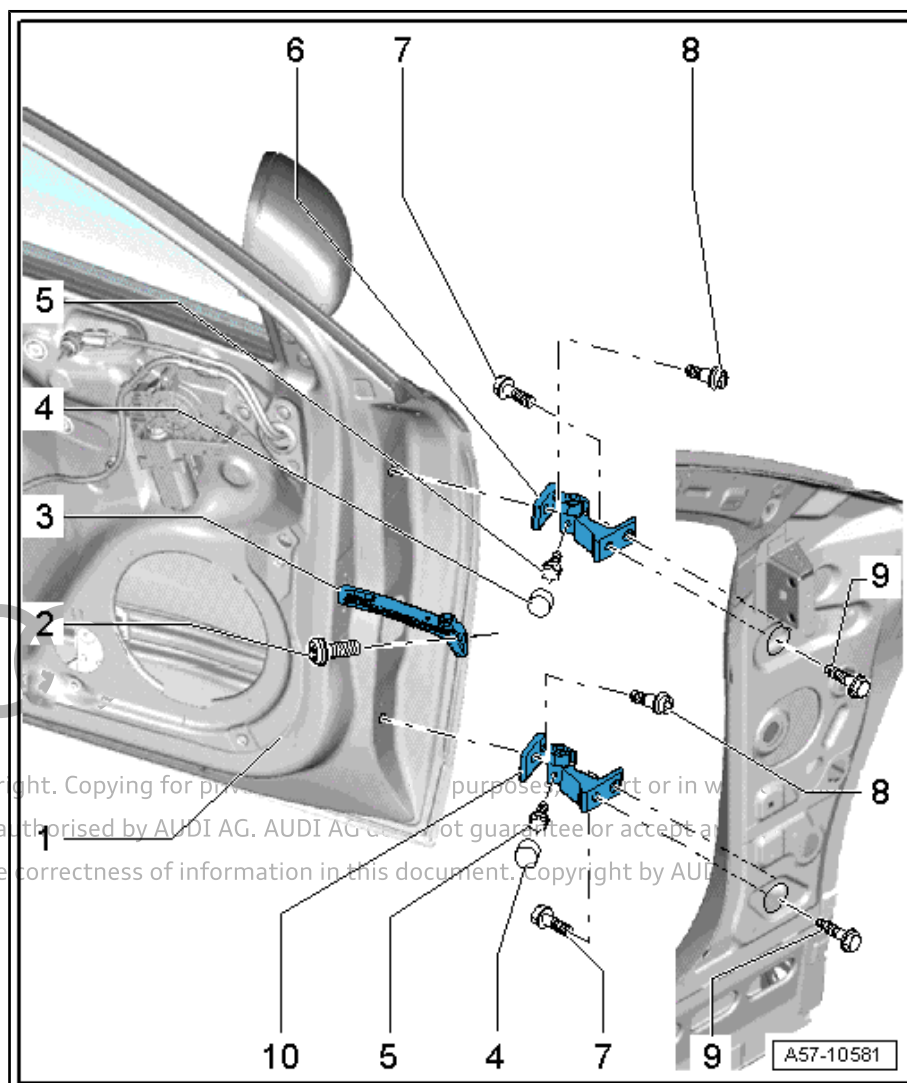
8 - Bolt

- ❑ 45 Nm

9 - Bolt

- ❑ 32 Nm

10 - Door hinge (bottom)





1.1.2 Exploded view - door arrester

1 - Door arrester

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

2 - Cap

- ❑ For door arrester
- ❑ Note direction of installation

3 - Bolt

- ❑ 8 Nm

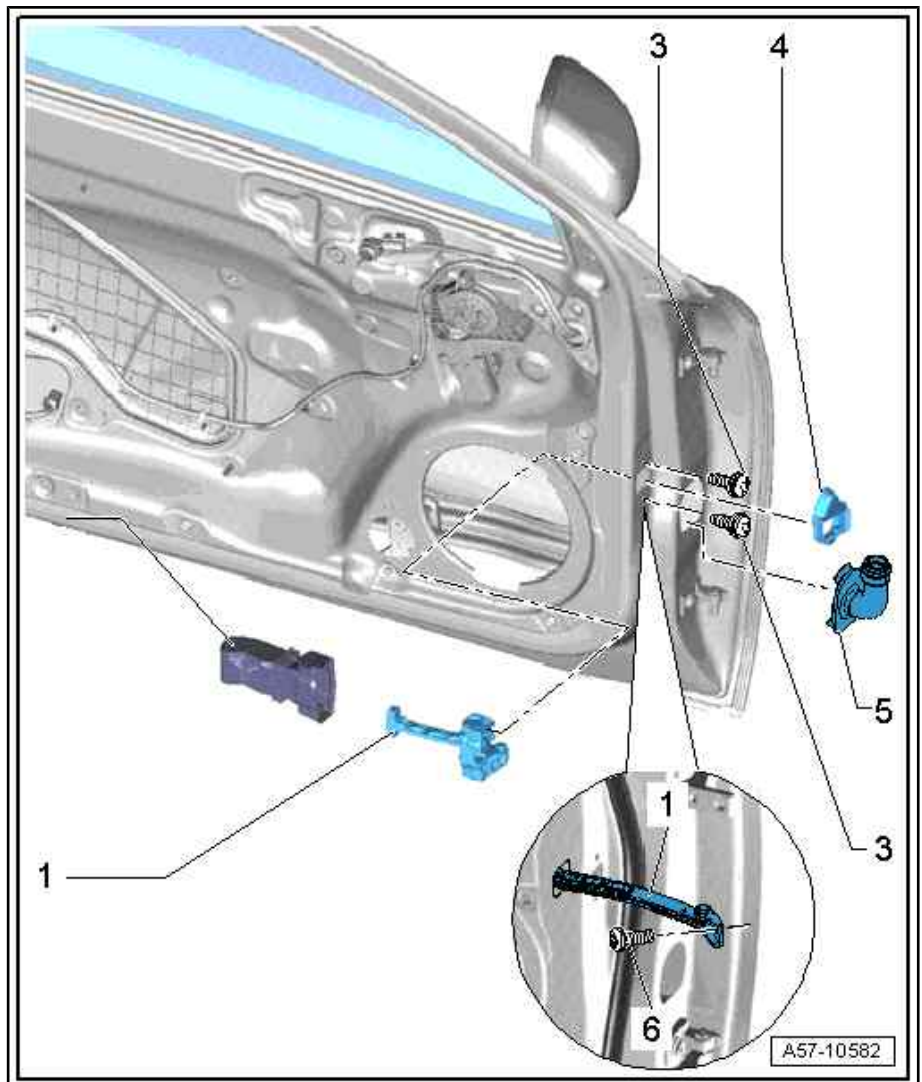
4 - Sealing grommet

- ❑ For door arrester

5 - Grommet

6 - Bolt

- ❑ 33 Nm



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1.2 Exploded view - door seals

⇒ "1.2.1 Exploded view - inner door seals", page 52

⇒ "1.2.2 Exploded view - outer door seals", page 53

1.2.1 Exploded view - inner door seals

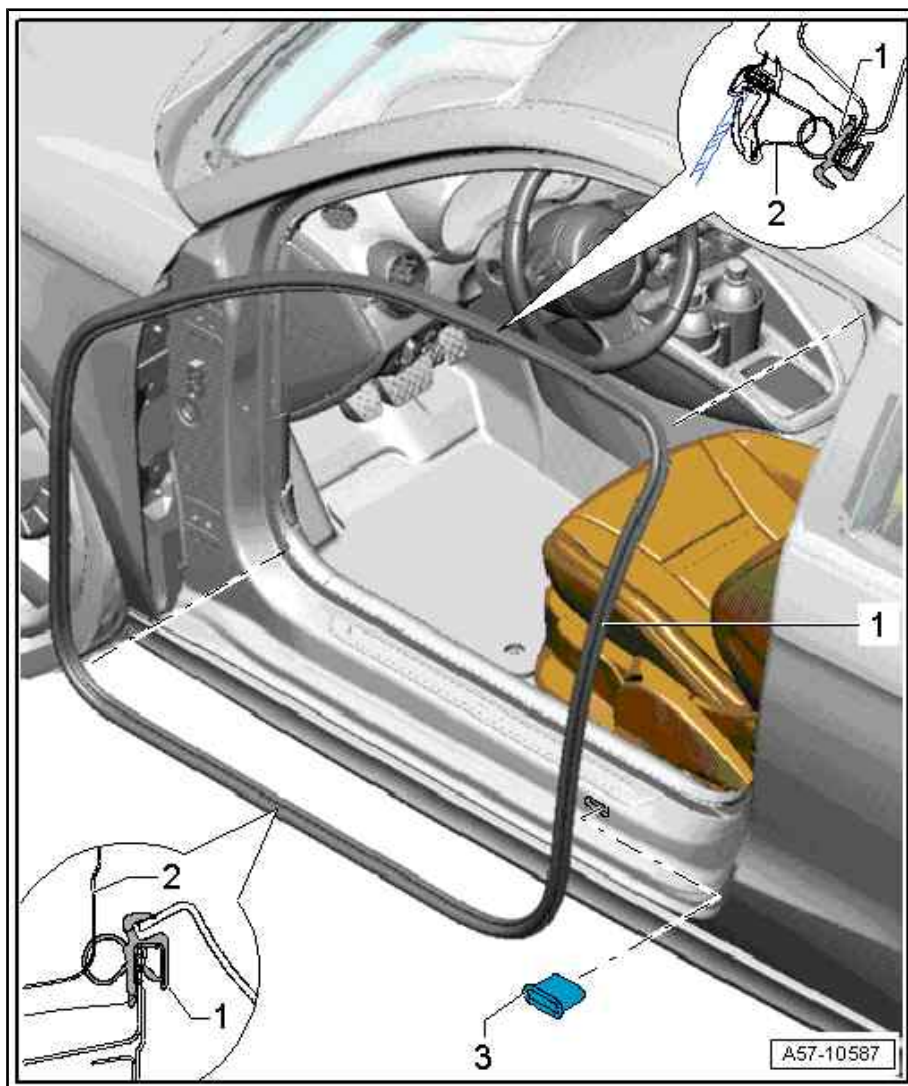
1 - Inner door seal

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

2 - Door

3 - Grommet

- ❑ Must engage audibly in side member



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1.2.2 Exploded view - outer door seals

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1 - Outer door seal

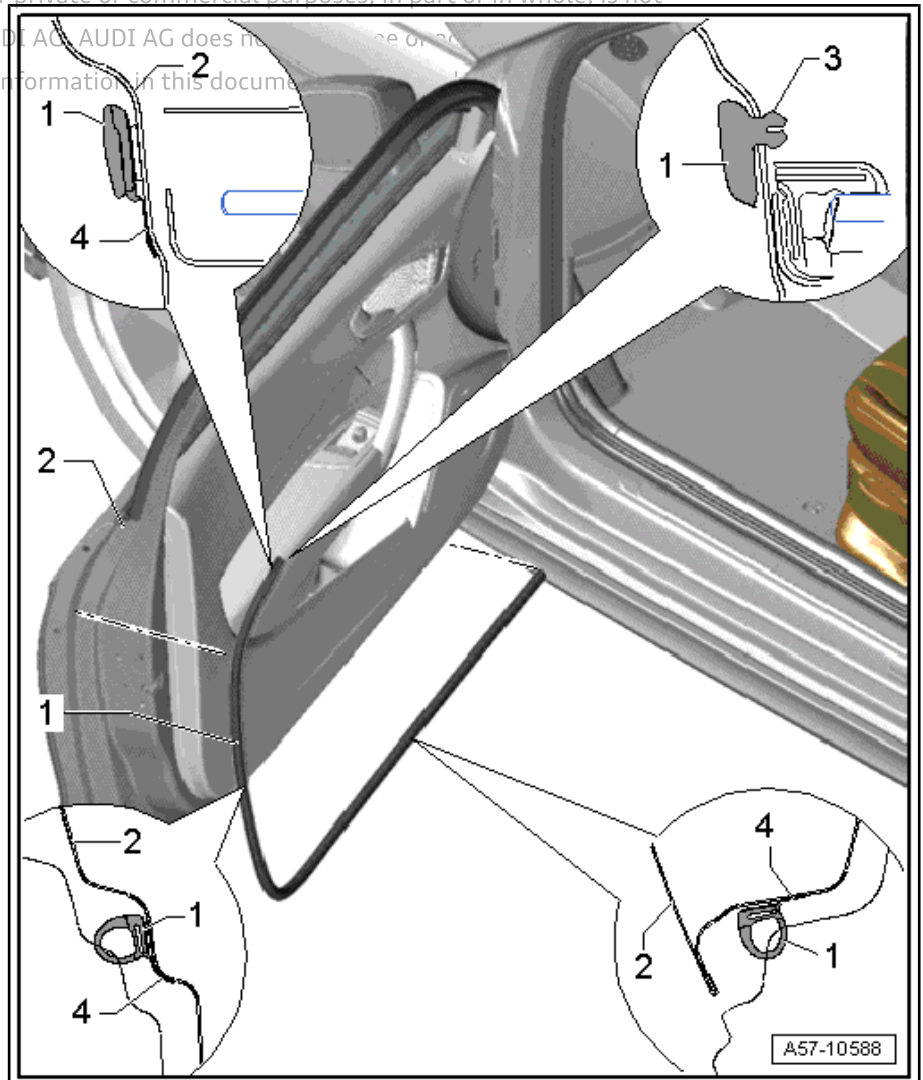
- Removing and installing

→ page 60

2 - Door

3 - Clip

- Cannot be renewed separately





1.3 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 studs.
- Unscrew studs -4- from door hinge (top and bottom).



Caution

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

- Carefully lift door off hinges.

Installing

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



Note

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

Tightening torques

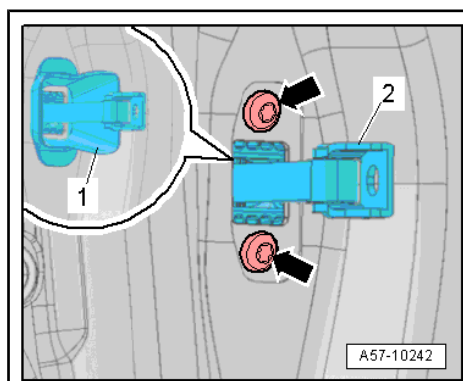
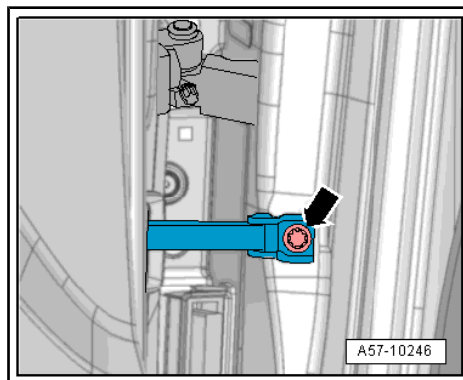
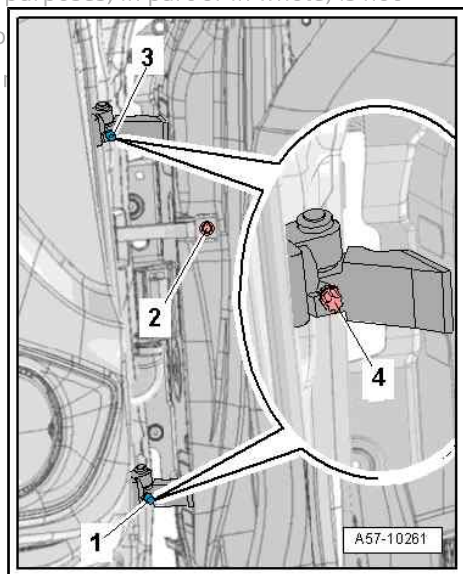
- ◆ ⇒ [“1.1 Exploded view - door”, page 50](#)

1.4 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 lower loudspeaker ⇒ Communication; Rep. gr. 91 ; Sound system; Overview of fitting locations - sound system .
- Unscrew bolt -arrow- for door arrester at A-pillar.

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





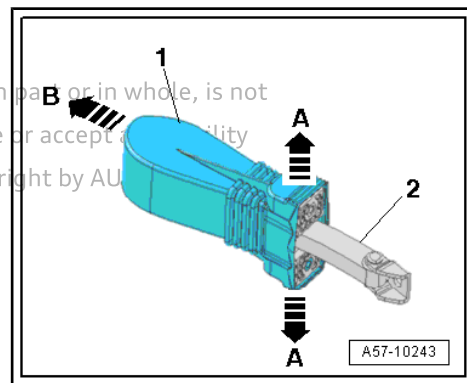
- Pull rubber sleeve -1- on door arrester to the side slightly -arrows A-.
- Detach rubber sleeve from door arrester -2- -arrow B-.

Installing

Installation is carried out in reverse sequence.

Tightening torques

- ◆ ⇒ ["1.1.2 Exploded view - door arrester", page 51](#)



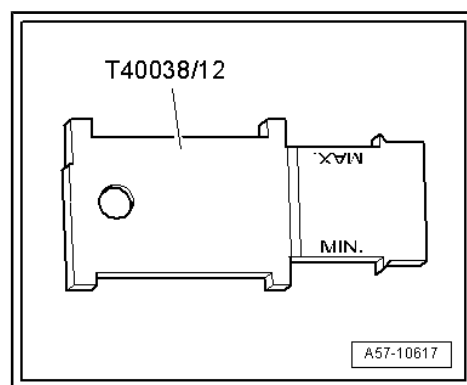
1.5 Adjusting door

Special tools and workshop equipment required

- ◆ Setting gauge - 3371-



- ◆ Template - T40038 /12-



- ◆ The »min and max« markings are used to check the side adjustment.
- ◆ The groove in the middle of the template is used to check the height of the door.
- ◆ The 0.4 mm graduation is used to check the underhang of the door relative to the wing, and of the side panel to the door.

Checking lateral adjustment

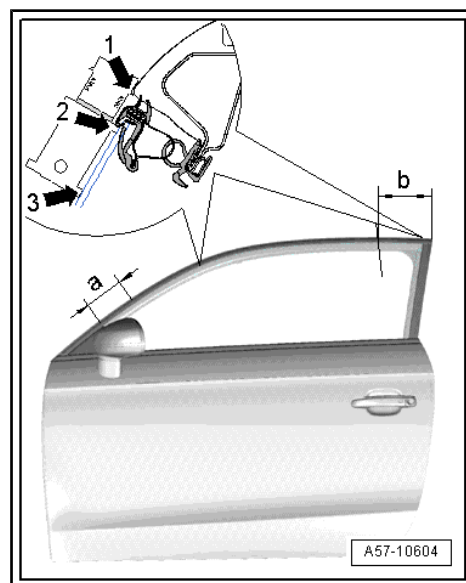
- Use template - T40038 /12- for check.
- Position template at distance -a- = 20 mm and -b- = 100 mm.



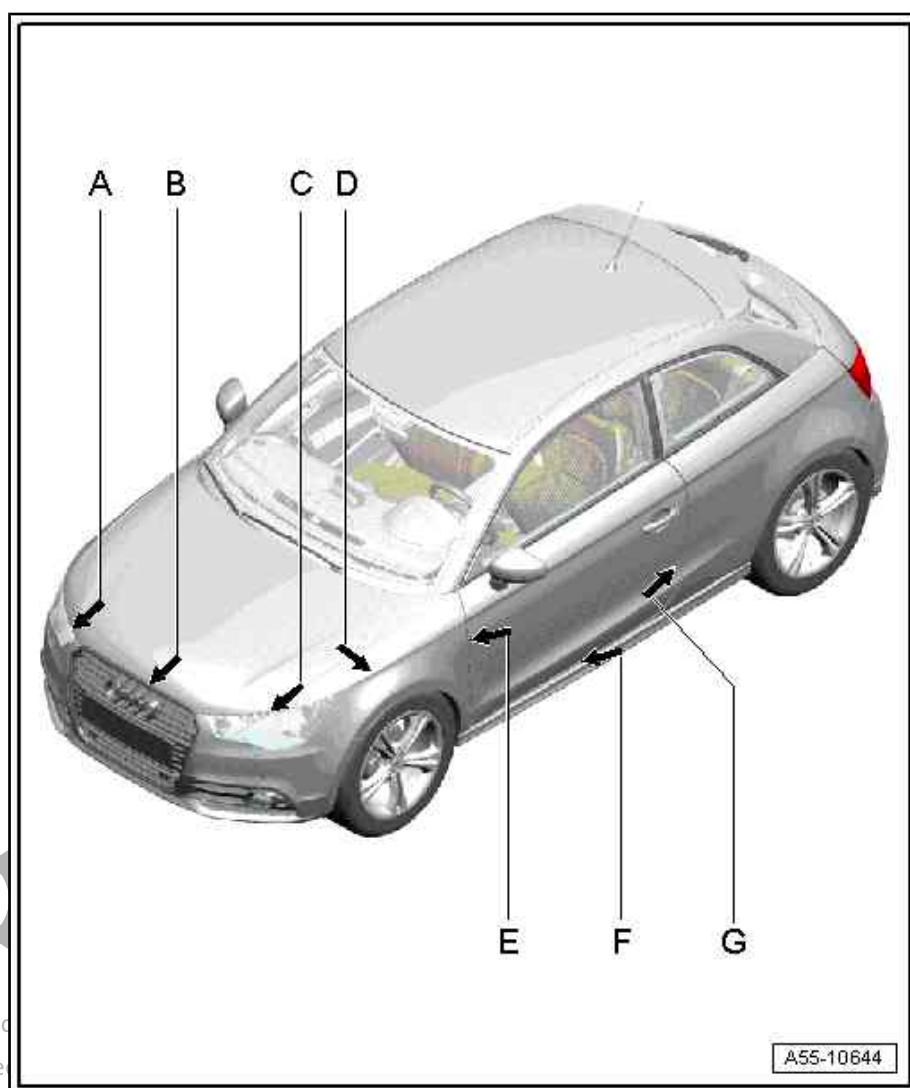
- Lugs of template must make contact with roof at top -arrow 1-.
- »Min« adjustment is correct when points -1- and -3- make contact.
- Point -2- may show a gap.
- »Max« adjustment is correct when points -2- and -3- make contact.
- Point -1- may show a gap.

Checking adjustment of height

- Slide template upwards until lugs of template make contact with roof.
- Height is correctly adjusted when bottom edge of window guide is within width of template groove.



Gap widths for front door (vehicles with 2 doors)



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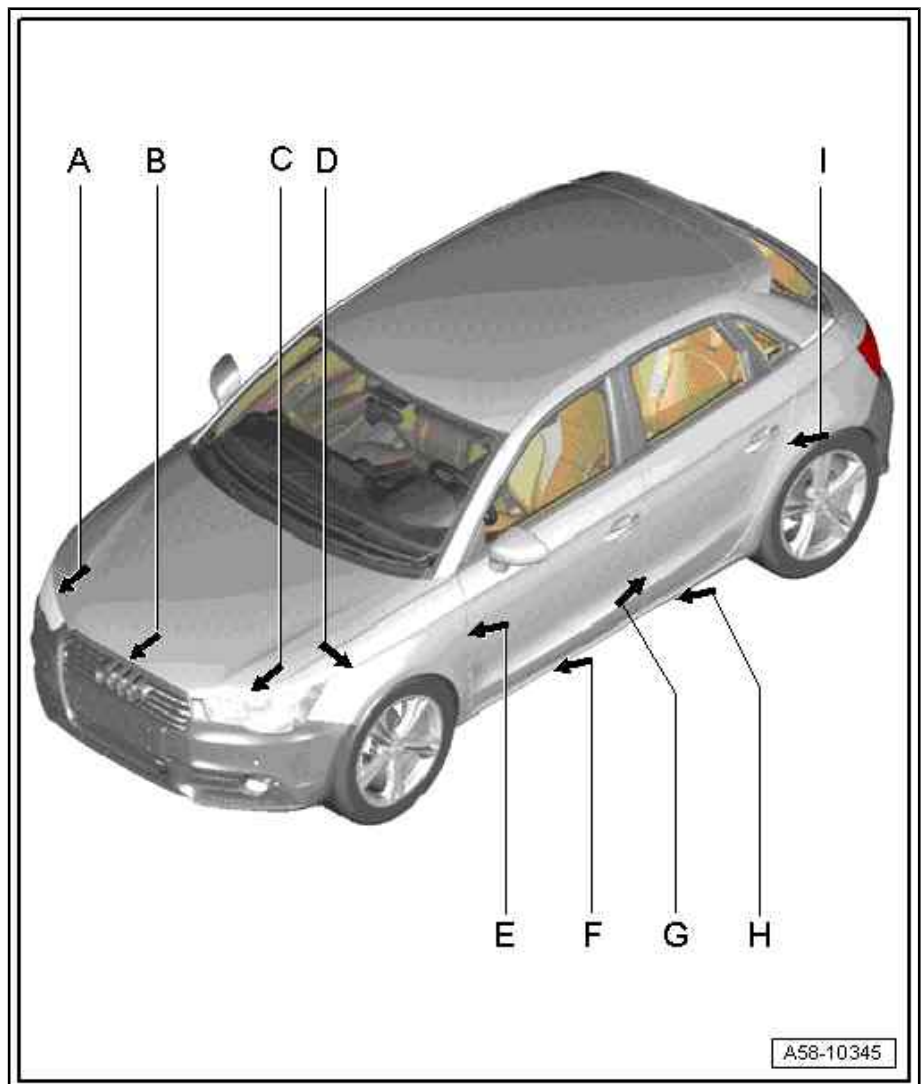
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ty



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).
- ◆ Dimension E = 3.5 mm
- ◆ Dimension F = 5 mm
- ◆ Dimension G = 3.5 mm

Gap widths for front door (vehicles with 4 doors)



A58-10345

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- ◆ 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).



- ◆ Dimension E = 3.5 mm
- ◆ Dimension F = 6 mm
- ◆ Dimension G = 4.5 mm

Preparations for adjustment in longitudinal direction and towards centre of vehicle

- Remove dash panel cover (driver side) ⇒ General body repairs, interior; Rep. gr. 68 ; Storage compartments/covers/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; Removing and installing relay and fuse carrier behind dash panel (driver side) .
- Remove glove box (front passenger side) ⇒ General body repairs, interior; Rep. gr. 68 ; Storage compartments/covers/trim panels; Removing and installing glove box .

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 torques

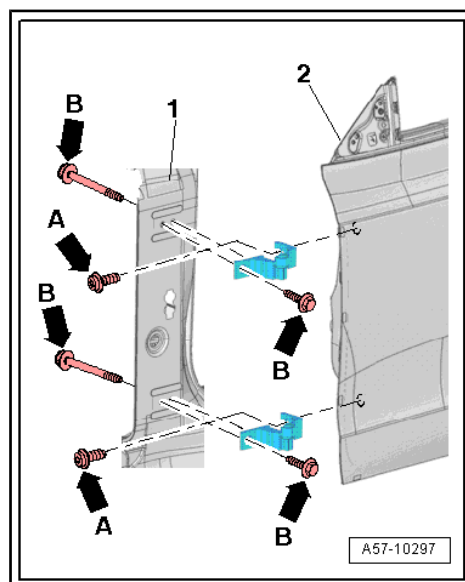
- ◆ ⇒ ["1.1.1 Exploded view - door", page 50](#)

Height adjustment

- Loosen bolts (top and bottom) -arrows A- at hinge.
- Adjust door -2- lengthwise.
- Tighten bolts -arrows A-.

Tightening torques

- ◆ ⇒ ["1.1.1 Exploded view - door", page 50](#)





1.6 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.

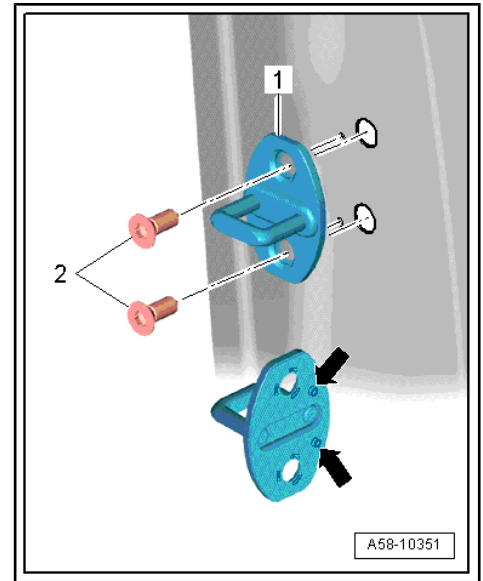


Note

- ◆ *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 torques

- ◆ ⇒ [“2.4.2 Exploded view - door handle and door lock \(door lock and striker\)”, page 72](#)

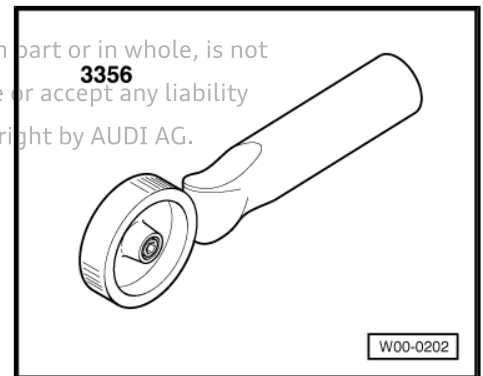


1.7 Removing and installing inner door seal

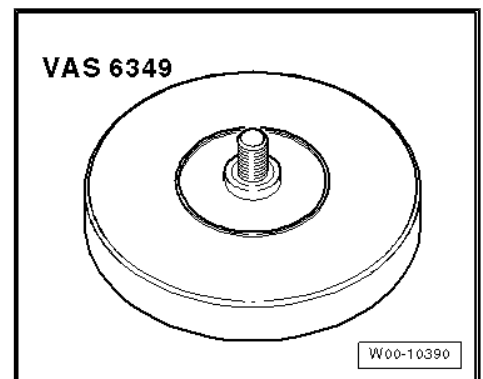
Special tools and workshop equipment required

- ◆ Roller - 3356-

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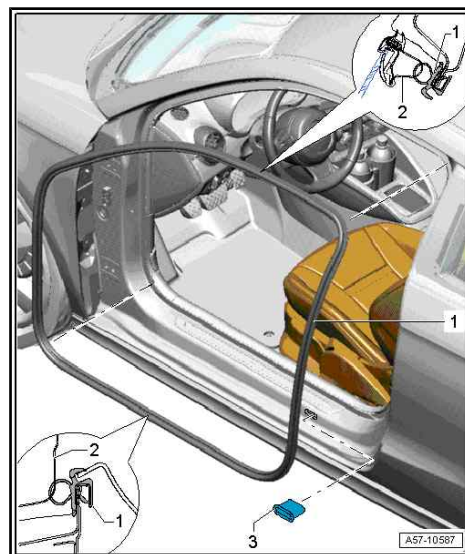
- ◆ Adhesive strip remover - VAS 6349-





Removing

- Remove A-pillar trim (top and bottom) ⇒ General body repairs, interior; Rep. gr. 70 ; Passenger compartment trim panels; Removing and installing A-pillar trim .
- Unfasten B-pillar trim (top and bottom) ⇒ General body repairs, interior; Rep. gr. 70 ; Passenger compartment trim panels; Removing and installing B-pillar trim .
- Unfasten sill panel trim ⇒ General body repairs, interior; Rep. gr. 70 ; Passenger compartment trim panels; Removing and installing sill panel trim .
- Remove roof grab handles ⇒ General body repairs, interior; Rep. gr. 68 ; Equipment; Removing and installing grab handle .
- Remove sun visor and press off headliner in vicinity of seal ⇒ General body repairs, interior; Rep. gr. 68 ; Equipment; Removing and installing sun visor .
- Detach inner door seal -1- from body flange -2-.



Installing

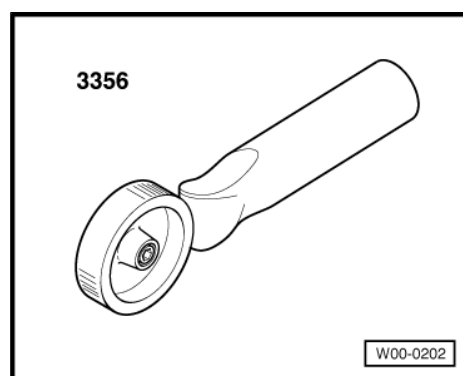
Installation is carried out in reverse order; note the following:

- Align vulcanised butt joint on seal with lower hinge and press onto vehicle body flange by hand.

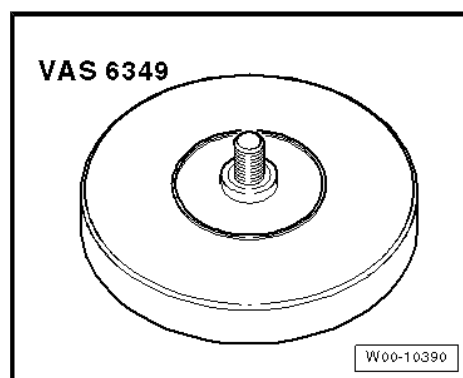
1.8 Removing and installing outer door seal

Special tools and workshop equipment required

- ◆ Roller - 3356-



- ◆ Adhesive strip remover - VAS 6349-



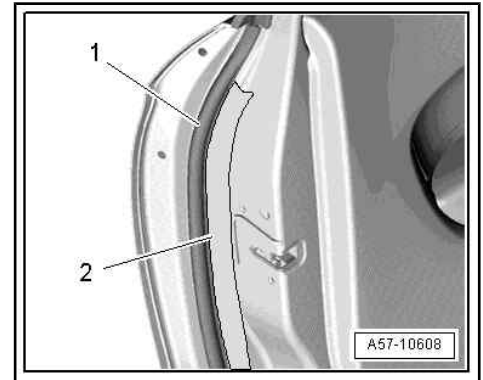
- ◆ Cleaning solution - D 009 401 04-

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Removing

- Mark position of seal -1- on door and underside of door with adhesive tape -2-.
- First unclip retaining clip for seal at top and pull slightly off door.



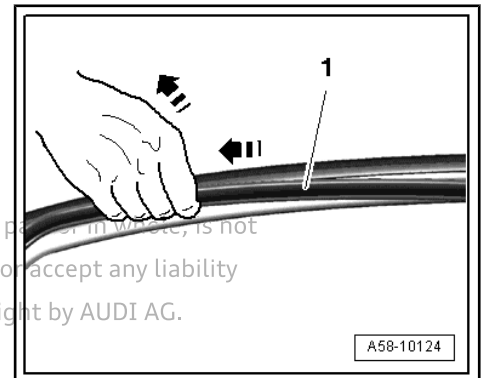
- Gradually stretch outer door seal lengthwise -arrow- and detach, as shown in illustration.



Note

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

- Detach outer door seal completely.



Installing

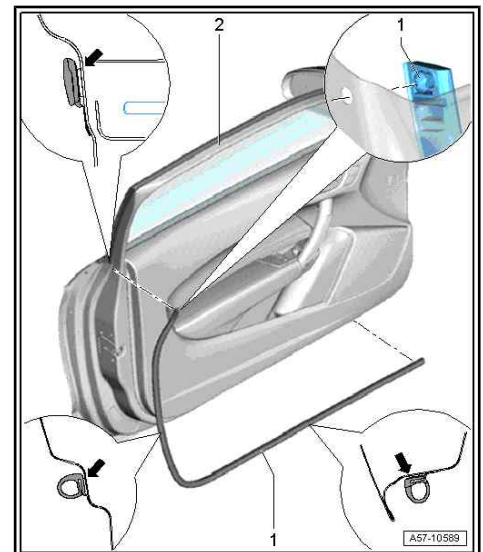
Installation is carried out in reverse order; note the following:

- Remove any residual adhesive with adhesive strip remover - VAS 6349- .
- Clean bonding surface on door with cleaning solution - D 009 401 04- .
- Peel off a section of the protective film on the seal (top).
- First clip in retaining clip -1- for seal at top.



Note

When installing, seal must be pressed on in transition area of inner/outer radius of door shell contour, as shown in illustration -arrows-.





- Bond seal -2- onto door -1- according to marks and press on using roller - 3356- .
- Leave vehicle standing at room temperature for at least 2 hours with doors open.



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2 Door components

- ⇒ [“2.1 Exploded view - window regulator”, page 63](#)
- ⇒ [“2.2 Exploded view - door components”, page 66](#)
- ⇒ [“2.3 Exploded view - window guides and window slot trim strips”, page 68](#)
- ⇒ [“2.4 Exploded view - door handle and door lock”, page 70](#)
- ⇒ [“2.5 Removing and installing window regulator motor”, page 72](#)
- ⇒ [“2.6 Removing and installing window regulator”, page 73](#)
- ⇒ [“2.7 Removing and installing window guide”, page 74](#)
- ⇒ [“2.8 Removing and installing outer window slot trim strip”, page 75](#)
- ⇒ [“2.9 Removing and installing inner door cover”, page 77](#)
- ⇒ [“2.10 Removing and installing impact protection”, page 77](#)
- ⇒ [“2.11 Removing and installing striker”, page 78](#)
- ⇒ [“2.12 Removing and installing mounting bracket”, page 78](#)
- ⇒ [“2.13 Removing and installing door handle”, page 80](#)
- ⇒ [“2.14 Removing and installing door lock”, page 83](#)

2.1 Exploded view - window regulator

- ⇒ [“2.1.1 Exploded view - window regulator”, page 63](#)
- ⇒ [“2.1.2 Exploded view - window regulator, window regulator motor”, page 65](#)

2.1.1 Exploded view - window regulator



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1 - Door

2 - Window regulator

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

3 - Door window

- ❑ Removing and installing
⇒ [page 208](#)

4 - Nut

- ❑ 6 Nm

5 - Bolt

- ❑ Tightening torque
⇒ [page 65](#)

6 - Window regulator motor

- ❑ Exploded view
⇒ [page 65](#)

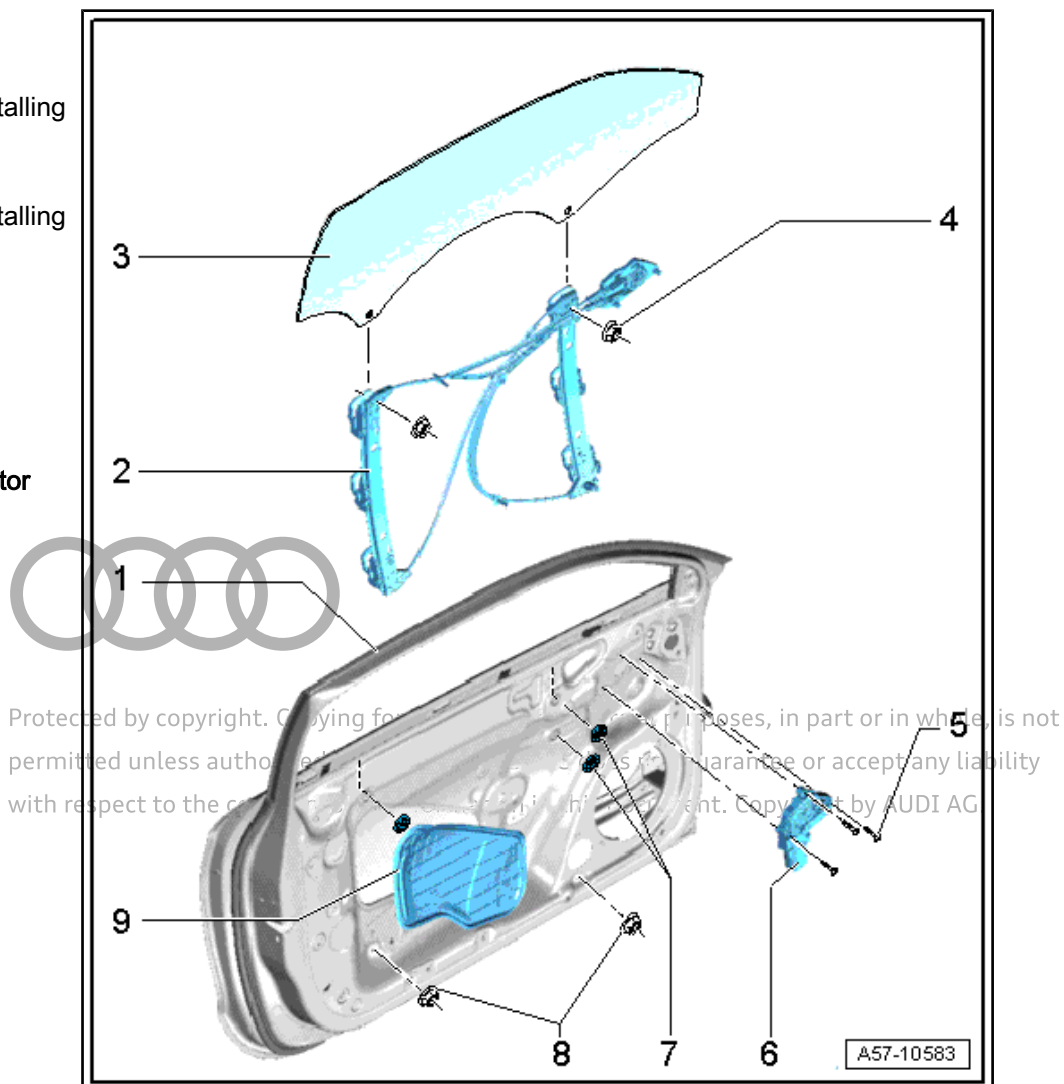
7 - Plug

8 - Nut

- ❑ 6 Nm

9 - Inner door cover

- ❑ Exploded view
⇒ [page 66](#)





2.1.2 Exploded view - window regulator, window regulator motor

1 - Window regulator motor

- Removing and installing
⇒ [page 72](#)

2 - Electrical connector

- Unplug at door control unit.

3 - Bolt

- 3x
- 3.5 Nm

4 - Window regulator

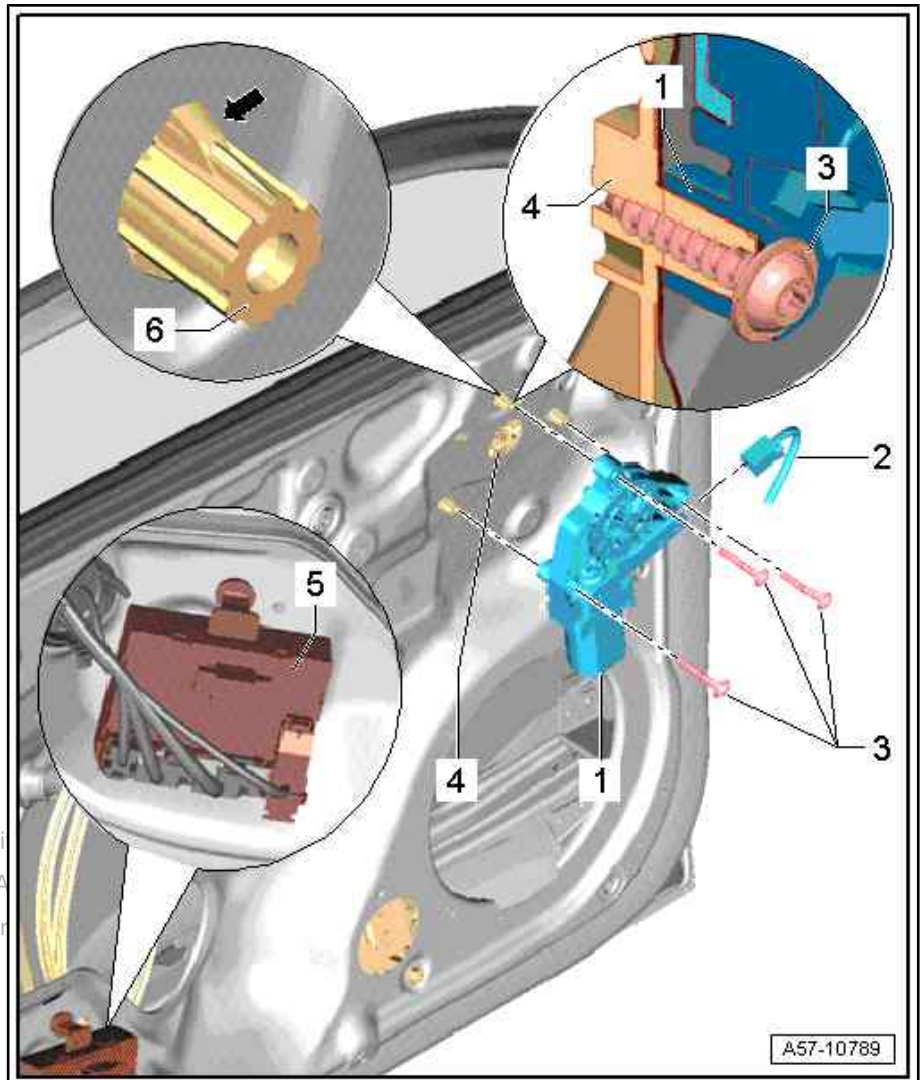
- Retaining clips -arrow- of threaded pins for window regulator must engage in inner door panel.

5 - Door control unit

- Driver door control unit - J386- , front passenger door control unit - J387-
- Removing and installing
⇒ [page 90](#)

6 - Threaded pin

- Use an 11 mm socket attachment to release catches -arrow- of threaded pins for window regulators (push socket attachment onto threaded pin).





2.2 Exploded view - door components

⇒ ["2.2.1 Exploded view - door components, inner door cover", page 66](#)

⇒ ["2.2.2 Exploded view - door components, impact protection, vehicles with 2 doors", page 67](#)

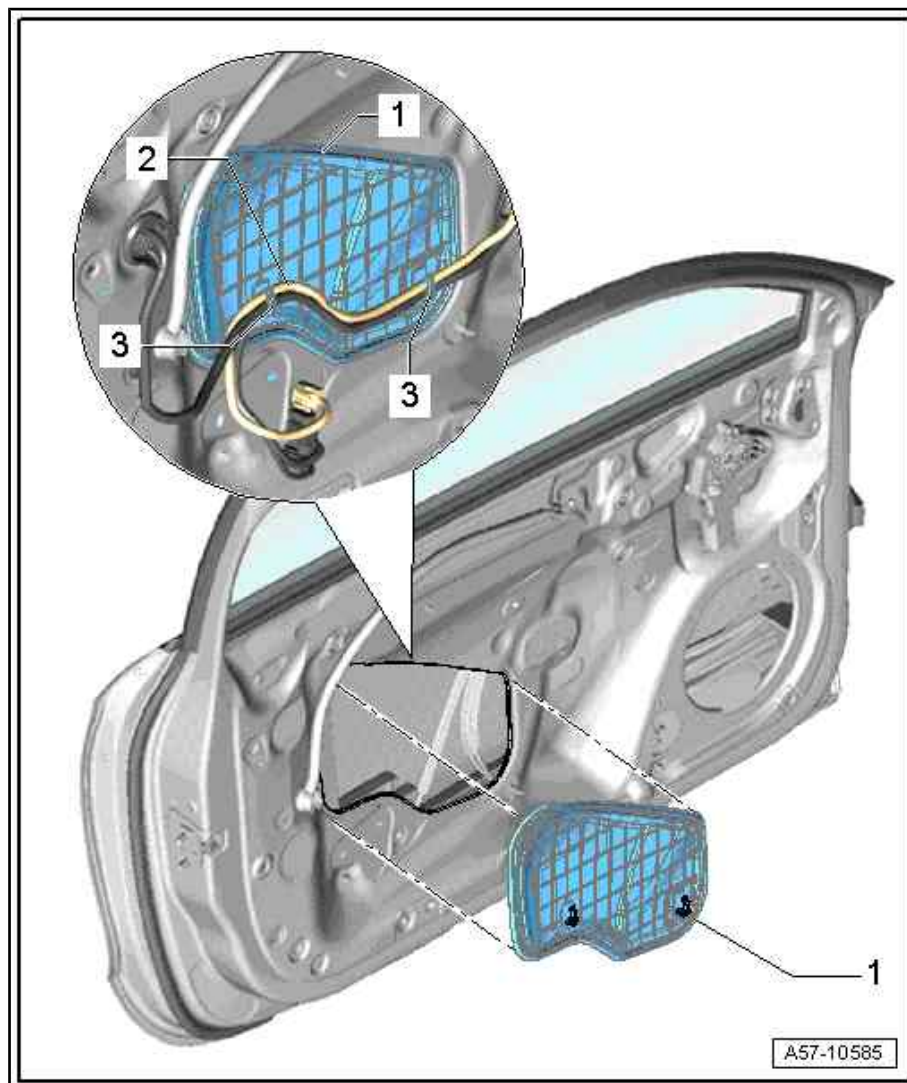
2.2.1 Exploded view - door components, inner door cover

1 - Cover

- Removing and installing
⇒ [page 77](#)

2 - Electrical wire

3 - Retaining clip



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2.2.2 Exploded view - door components, impact protection, vehicles with 2 doors

1 - Impact protection (bottom section)

- ❑ Cover for inner door panel and window regulator removed
- Unscrew bolt and take out impact protection.

2 - Impact protection (top section)

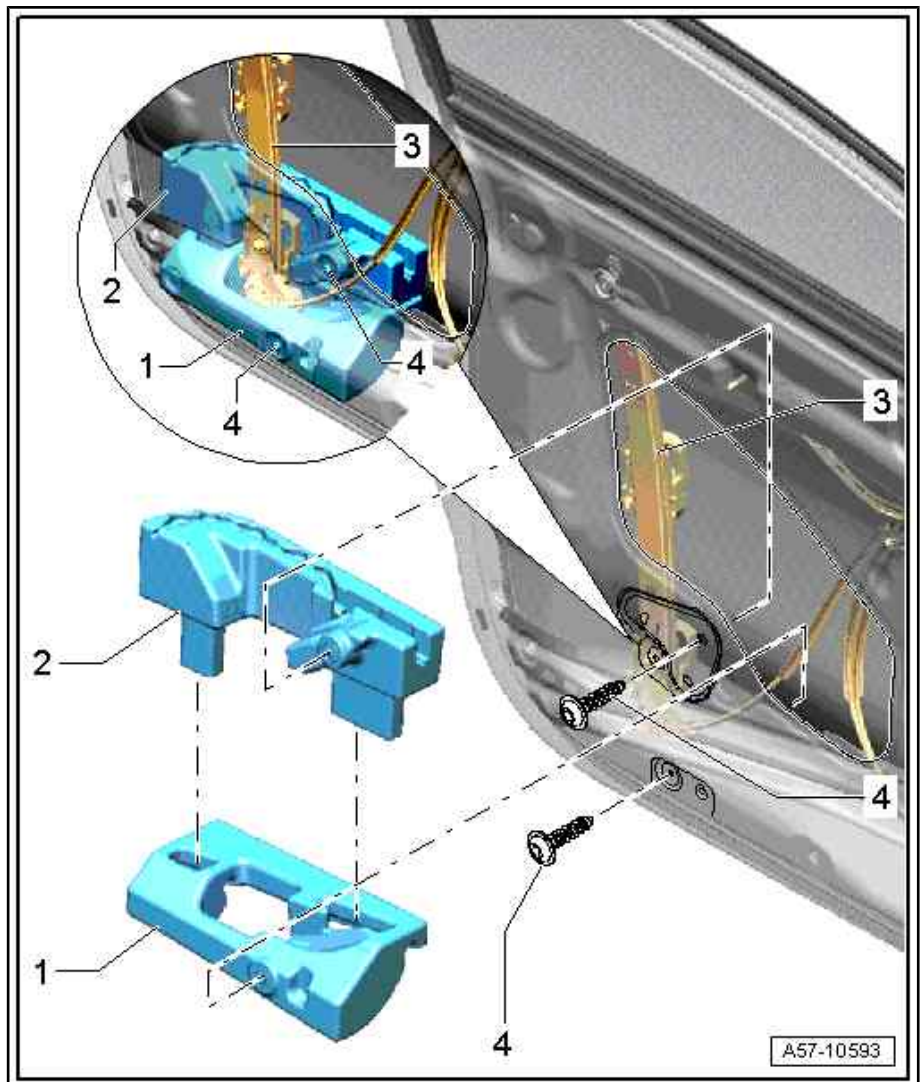
- ❑ Cover for inner door panel removed
- Unscrew bolt and lift impact protection out of bottom section.

3 - Window regulator

- ❑ Run door window to top position.

4 - Bolt

- ❑ 3.5 Nm



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2.3 Exploded view - window guides and window slot trim strips

⇒ "2.3.1 Exploded view - window guides", page 68

⇒ "2.3.2 Exploded view - window slot trim strips", page 69

2.3.1 Exploded view - window guides

1 - Window guide

- ❑ Removing and installing
⇒ [page 74](#)

2 - Door

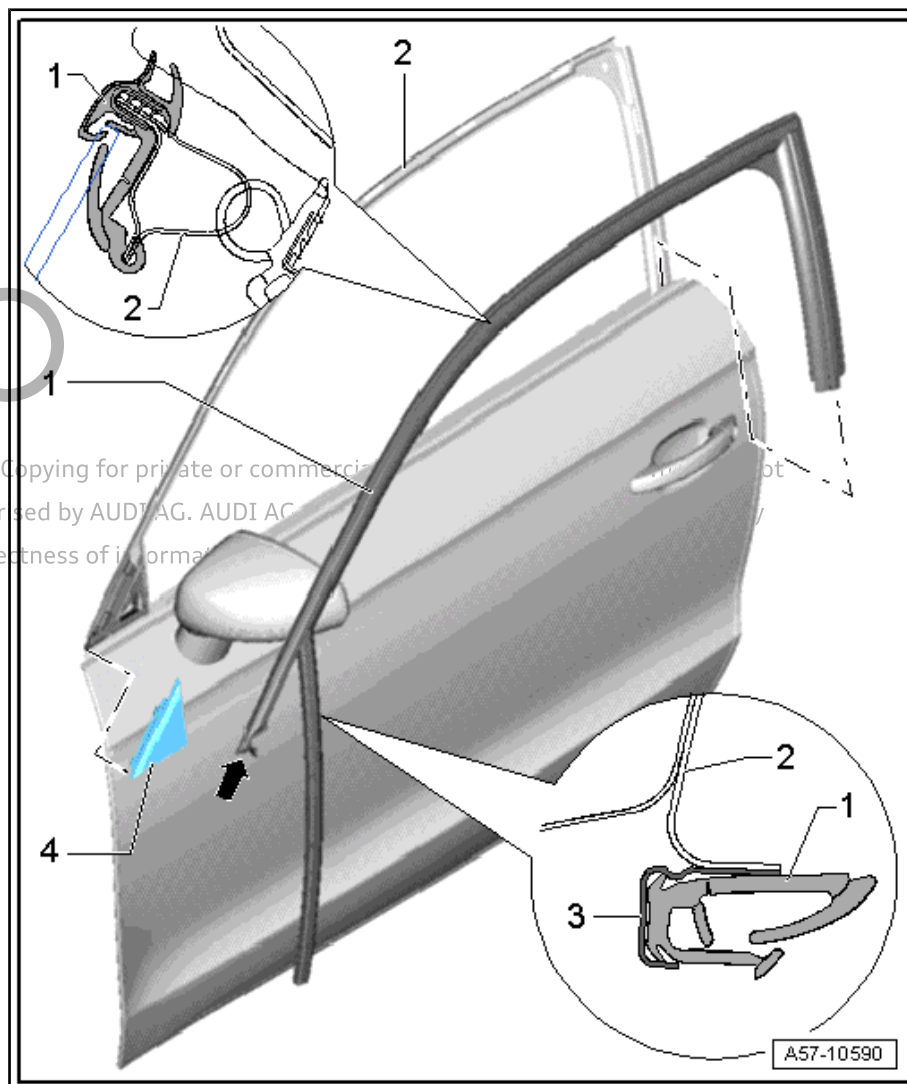
3 - Guide moulding

4 - Triangular trim

- ❑ Removed ⇒ [page 247](#)



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2.3.2 Exploded view - window slot trim strips

1 - Door

2 - Outer window slot trim strip

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

3 - Inner window slot trim strip

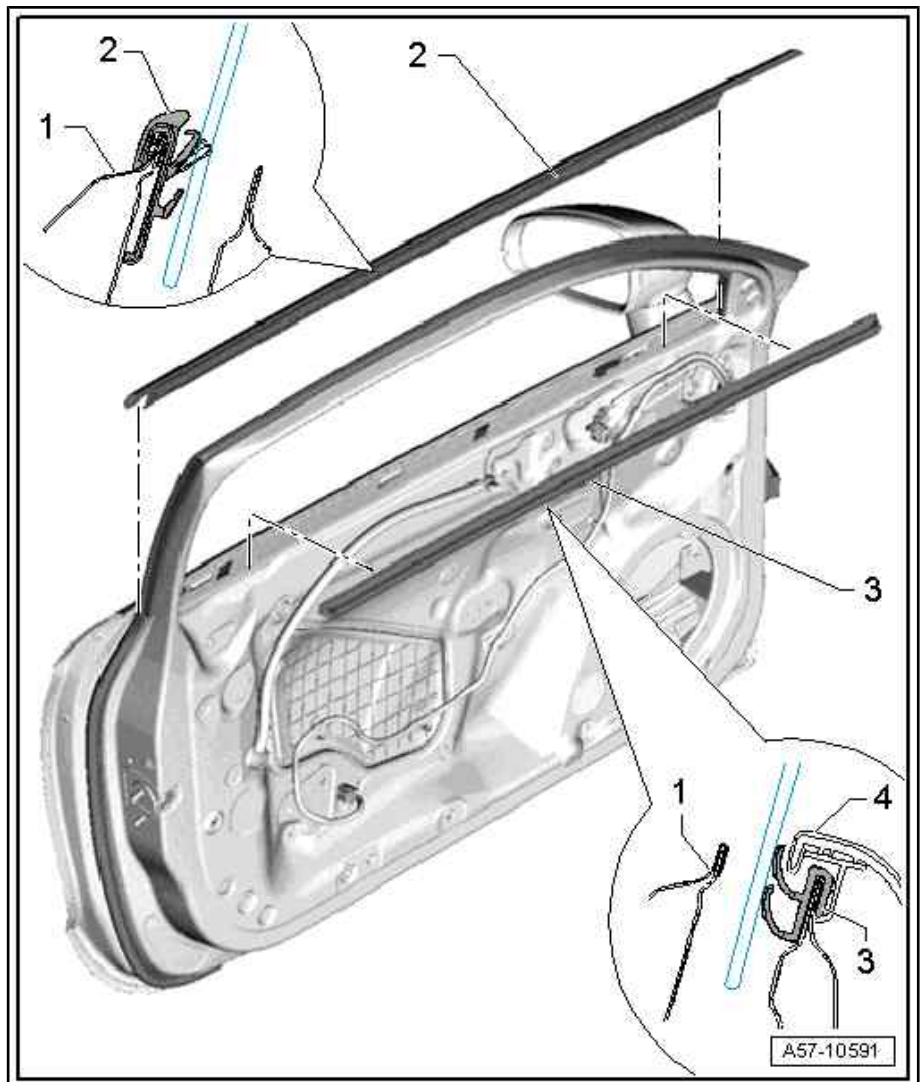
- Removing:

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

- Detach window slot trim strip upwards from door flange.

4 - Door trim

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



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2.4 Exploded view - door handle and door lock

⇒ "2.4.1 Exploded view - door handle and door lock", page 70

⇒ "2.4.2 Exploded view - door handle and door lock (door lock and striker)", page 72

2.4.1 Exploded view - door handle and door lock

1 - Exterior door handle

- Removing and installing
⇒ [page 81](#)

2 - Bolt

- 2.5 Nm

3 - Backing plate (front)

- Removing and installing
⇒ "2.13.3 Removing and installing door handle",
[page 81](#)

4 - Backing plate (rear)

- Removing and installing
⇒ "2.13.3 Removing and installing door handle",
[page 81](#)

5 - Housing

- Only fitted on passenger door
- Removing and installing: same procedures as for lock cylinder
⇒ "2.13.1 Removing and installing lock cylinder",
[page 80](#)

6 - Bolt

- Tightening torque
⇒ [Item 3 \(page 72\)](#)

7 - Cap

- Clip in

8 - Door lock

- Only remove and install together with mounting bracket

9 - Bolt

- 1.5 Nm

10 - Cover

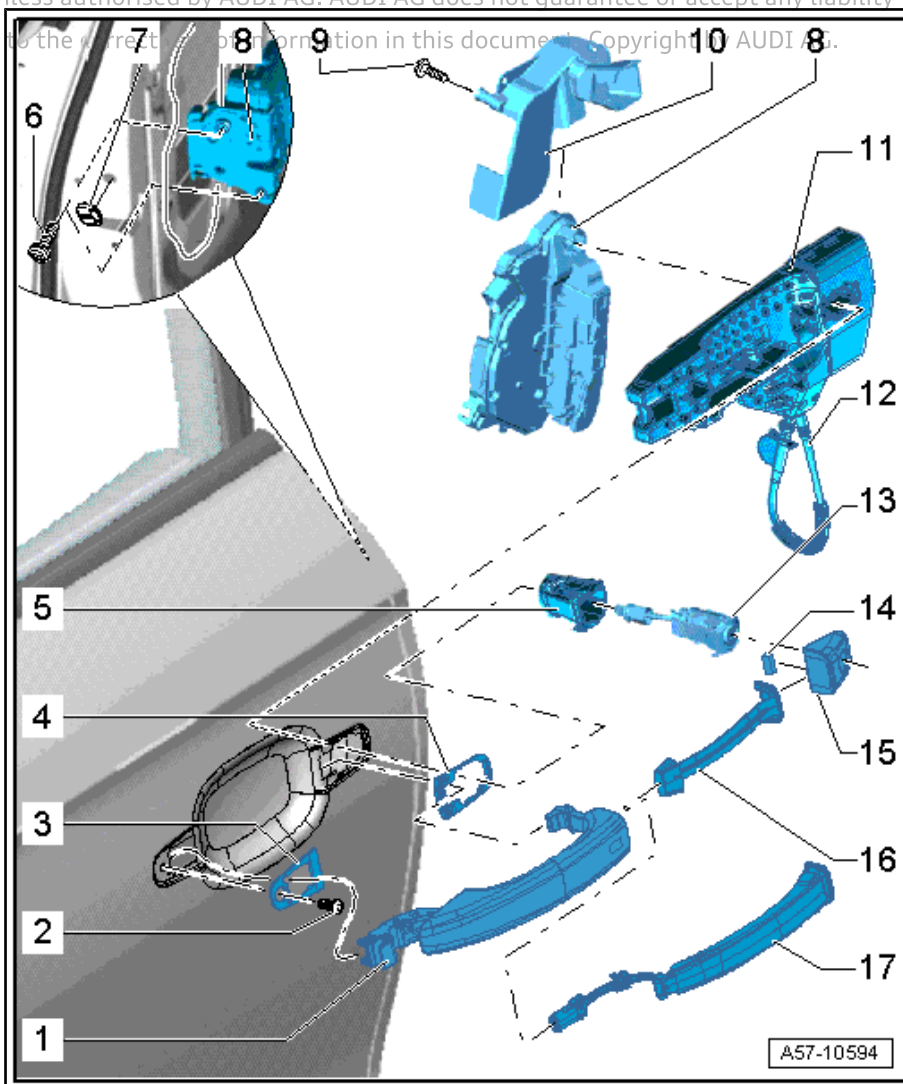
- For lock cylinder
- Removing and installing ⇒ [page 85](#)

11 - Mounting bracket

- Only remove and install together with door lock
- Removing and installing ⇒ [page 78](#)

12 - Operating cable

- For door lock
- Removing and installing ⇒ [page 84](#)





13 - Lock cylinder

- ☐ For driver's door
- ☐ Removing and installing ⇒ [page 80](#)

14 - Magnet

- ☐ Vehicles with Keyless Entry system only

15 - Cap

- ☐ Driver side: for lock cylinder
- ☐ Passenger side: closed design
- ☐ Removing and installing ⇒ [page 80](#)

16 - Trim for exterior door handle

- ☐ For vehicles without Keyless Entry system
- ☐ Removing and installing ⇒ [page 82](#)

17 - Contact sensor for exterior door handle

- ☐ Depending on version
- ☐ In exterior door handle
- ☐ Driver exterior door handle contact sensor - G415- , front passenger exterior door handle contact sensor - G416-
- ☐ Removing and installing ⇒ Electrical system; Rep. gr. 94 ; Entry and start authorisation; Exploded view - exterior door handle for keyless entry system



2.4.2 Exploded view - door handle and door lock (door lock and striker)

1 - Striker

- ❑ Removing and installing
⇒ [page 111](#)
- ❑ Adjusting ⇒ [page 59](#)

2 - Bolt

- ❑ 25 Nm

3 - Bolt

- ❑ 19 Nm

4 - Operating cable for door lock

5 - Door lock

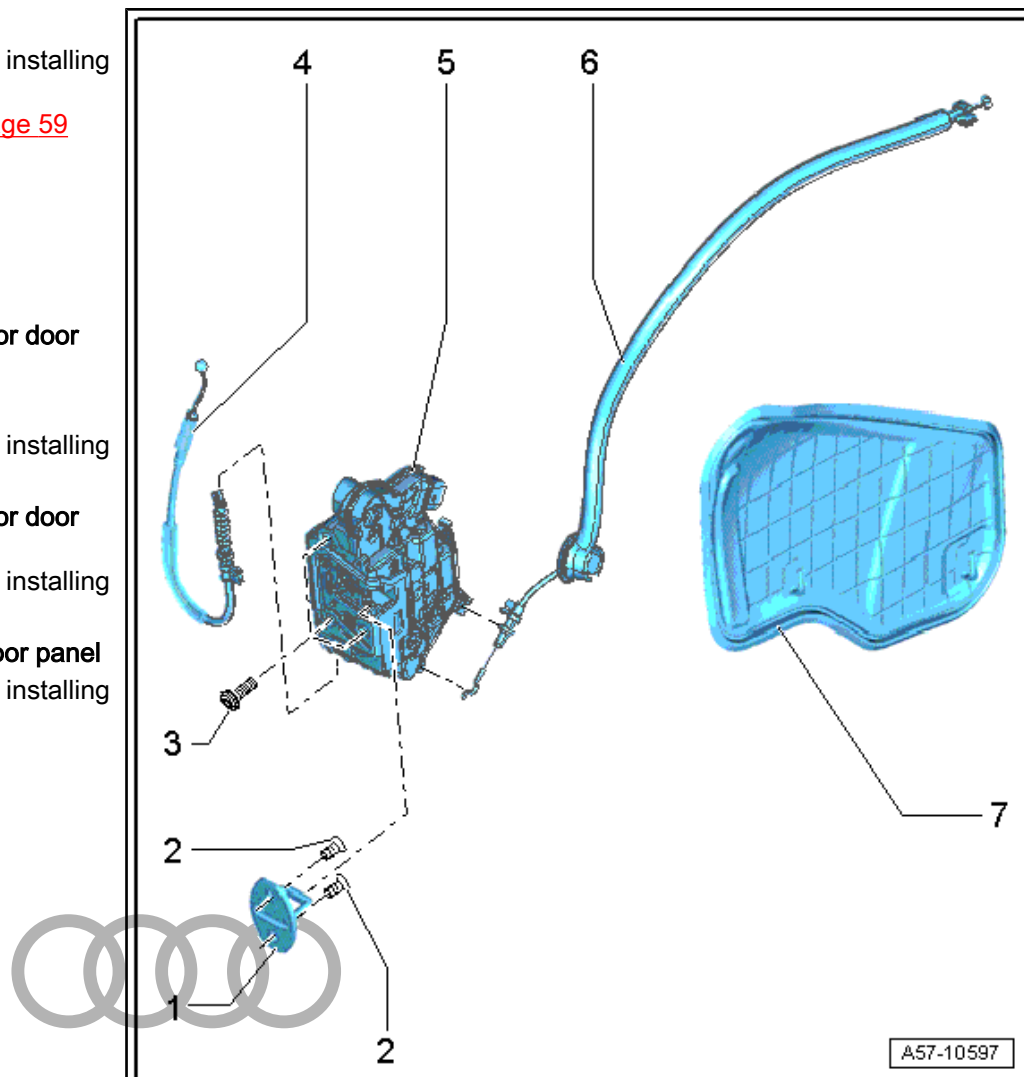
- ❑ Removing and installing
⇒ [page 83](#)

6 - Operating cable for door opener

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

7 - Cover for inner door panel

- ❑ Removing and installing
⇒ [page 77](#)

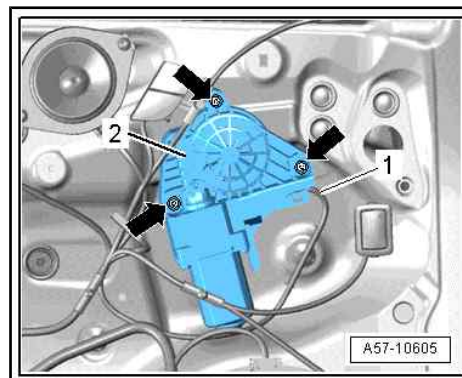


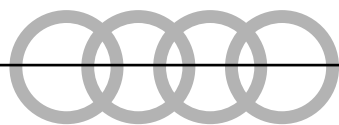
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2.5 Removing and installing window regulator motor

Removing

- 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

Installation is carried out in 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-.

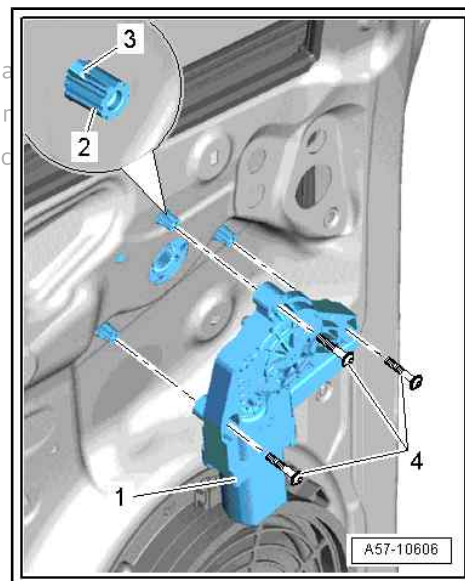


Note

After installation, activate open/close function.

Tightening torques

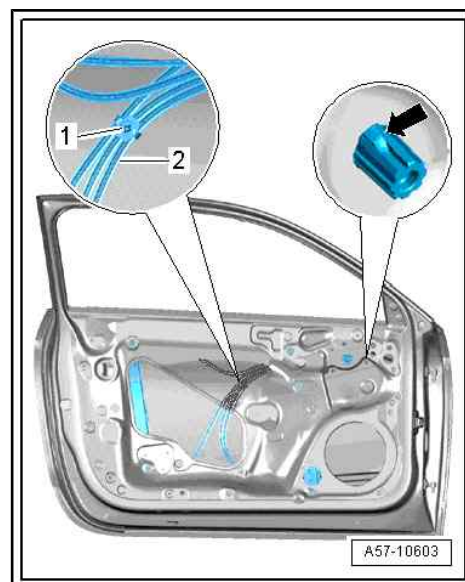
- ◆ ⇒ [“2.1.2 Exploded view - window regulator, window regulator motor”, page 65](#)



2.6 Removing and installing window regulator

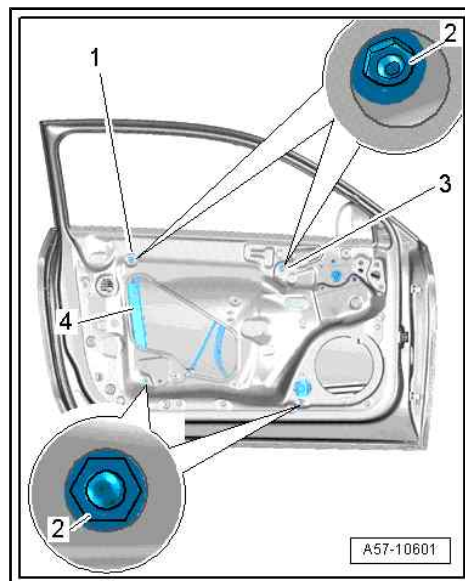
Removing

- Remove window regulator motor ⇒ [page 72](#) .
- Remove door window ⇒ [page 208](#) .
- Use an 11 mm socket attachment to release catches -arrow- of threaded pins for window regulators (push socket attachment onto threaded pin).
- Press threaded pin out of inner door panel.
- Unfasten Bowden cable with clip -1- from inner door panel.





- Loosen nuts -2- at top of window regulator, but do not remove.
- Unclip window regulator control unit.
- Remove nuts -2- at bottom of window regulator.
- First press window regulator with threaded pins out of inner door panel at bottom; then lift it out of "key-holes".
- Lift window regulator out through opening in inner door panel towards rear.



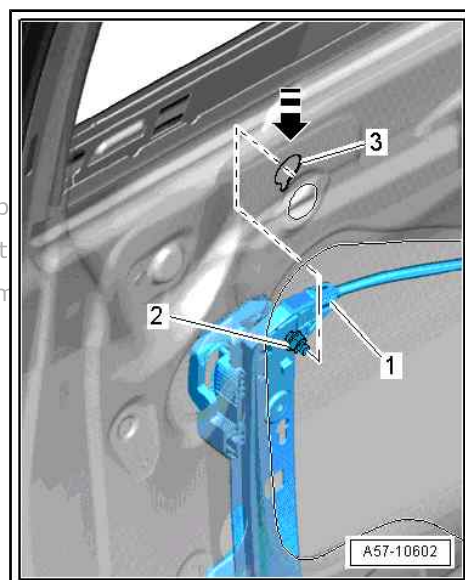
Installing

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

- Screw nuts -2- loosely onto threaded pins.
- Guide in window regulator -1- through opening in inner door panel and first insert it at top in "key-holes" -3- in direction of - arrow-.
- Slide threaded pins at bottom of window regulator through inner door panel and secure with nuts.
- Catches of threaded pins for window regulator must engage in inner door panel.

Tightening torques

- ◆ ⇒ ["2.1.1 Exploded view - window regulator", page 63](#)



2.7 Removing and installing window guide



1 - Window guide

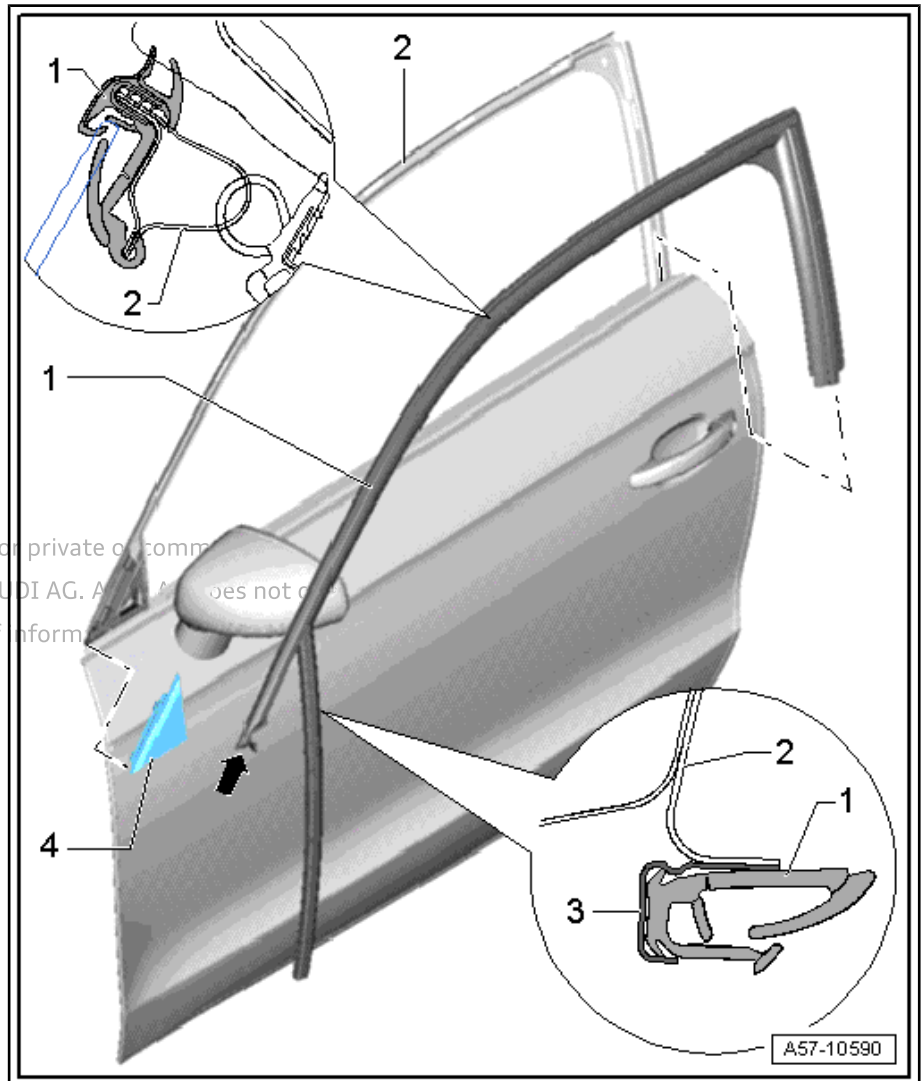
❑ Removing:

- Door window and triangular trim removed
- Unclip window guide (front) -arrow- from door.
- Starting at the top, detach window guide from door, also detaching it at A-pillar and B-pillar sides.
- Lift window guide out of door.

❑ Installing:

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- To facilitate assembly, spray window guide with a soap solution.
- Position window guide at B-pillar and at the same time clip moulded section into inner door panel.
- Press window guide onto window frame, gradually working towards front.
- Position window guide at A-pillar and slide it downwards into guide moulding.
- Clip window guide into door at front -arrow-.



2 - Door

3 - Guide moulding

4 - Triangular trim

- ❑ Removed ⇒ [page 247](#)

2.8 Removing and installing outer window slot trim strip

Special tools and workshop equipment required



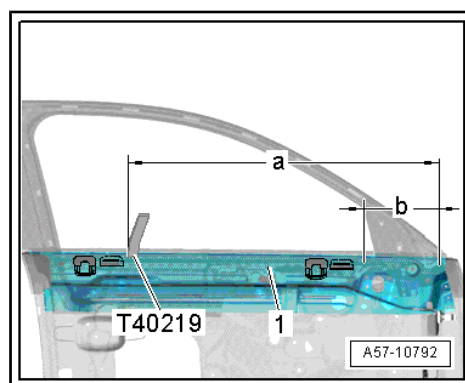
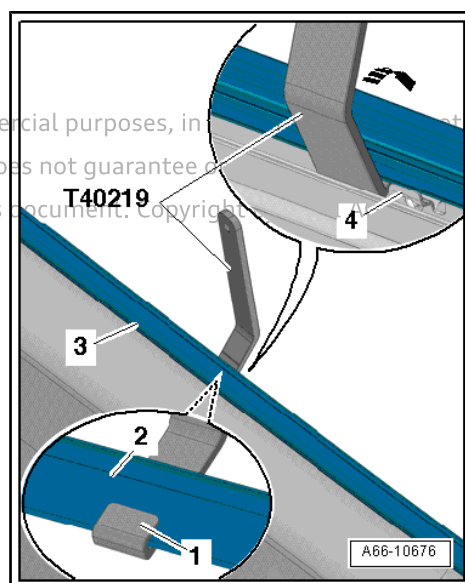
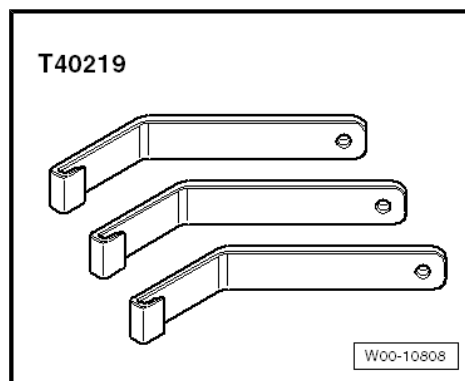
◆ Removal tool - T40219- (3x)

**Removing**

- Lower door window.
- Remove door trim → General body repairs, interior; Rep. gr. 70; Door trim (front); Removing and installing door trim (front).
- Remove triangular trim at A-pillar → [page 247](#).
- Remove inner window slot trim strip → [page 69](#).
- Insert removal tool - T40219- in door at A-pillar.
- Move removal tool - T40219- sideways so it is next to retaining hook -4- for window slot trim strip -3- and apply at retaining strip -2-.
- Front section -1- of removal tool -T40219- must be positioned as shown in illustration.
- Press removal tool - T40219- lightly in direction of -arrow- to release component.
- You should hear the retaining strip disengage.
- Carefully pull window slot trim strip upwards off door flange using removal tool - T40219-.

Dimensions for retaining hooks

- Removal tool - T40219- must be positioned as close to retaining hooks as possible.
- To do so, insert removal tool - T40219- in door at C-pillar and move sideways to reach dimensions -a- and -b-.
- ◆ Dimension -a- = 790 mm
- ◆ Dimension -b- = 310 mm
- The dimensions are measured from the B-pillar on the window slot trim strip.





Installing

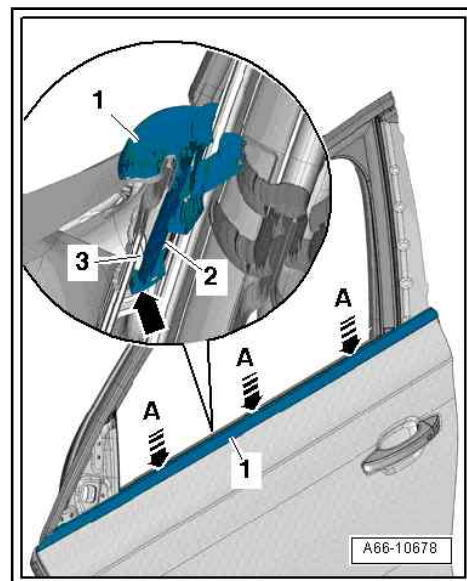
Installation is carried out in reverse order; note the following:



Note

For installing, you can coat the bottom edge of the window slot trim strip with tyre assembly paste.

- Position window slot trim strip -1- at trim panel for B-pillar on door seam and press on evenly -arrows A-; retaining strip -2- should engage audibly.
- When fixing strip in position -arrow-, retaining strip should engage underneath retaining plate -3-.



2.9 Removing and installing inner door cover

Removing

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

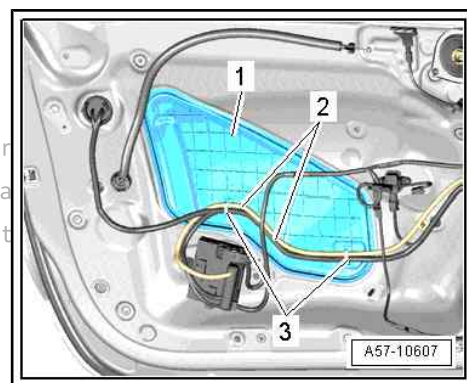
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- Disengage electrical wiring harness -2- from retainer -3-.
- Starting at top, pull off cover -1- for inner door panel.

Installing

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

- Press on cover for inner door panel.
- Cover for inner door panel must be flush.



2.10 Removing and installing impact protection



Note

The procedure described relates to the protective side strip on vehicles with two doors.



Removing

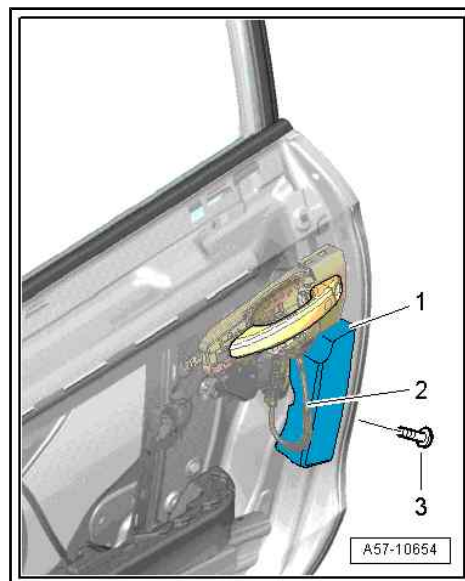
- Run door window to top position.
- Unscrew bolt -3- at protective side strip -1-.
- Slide protective side strip down and take it out through opening in inner door panel.

Installing

Installation is carried out in reverse sequence.

Tightening torques

Component	Nm
Protective side strip to door	1.5



2.11 Removing and installing striker

Removing

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

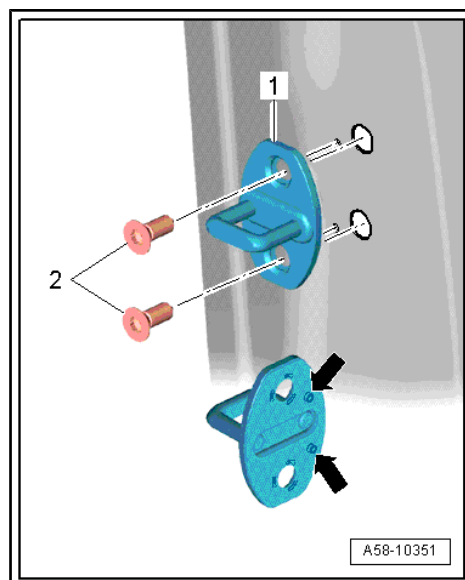
Installing

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

- Adjust striker ⇒ [page 59](#) .

Tightening torques

- ♦ ⇒ [“2.4.2 Exploded view - door handle and door lock \(door lock and striker\)”, page 72](#)



2.12 Removing and installing mounting bracket



Caution

Risk of malfunction

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

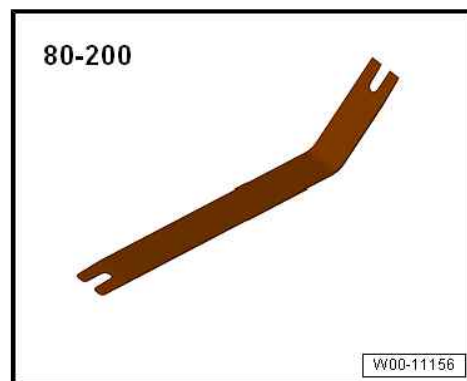
The operating cable must be engaged in/disengaged from the mounting bracket outside the door.

Special tools and workshop equipment required

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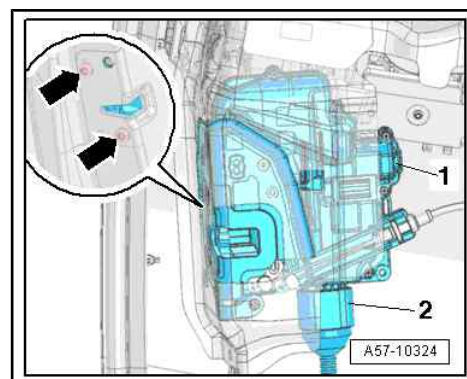


◆ Removal lever - 80 - 200-



Removing

- Remove inner door cover ⇒ [page 77](#) .
- Remove bolts -arrows-.
- Unplug electrical connector at door lock.
- Remove exterior door handle ⇒ [page 81](#) .
- Remove lock cylinder guide ⇒ [page 85](#) .



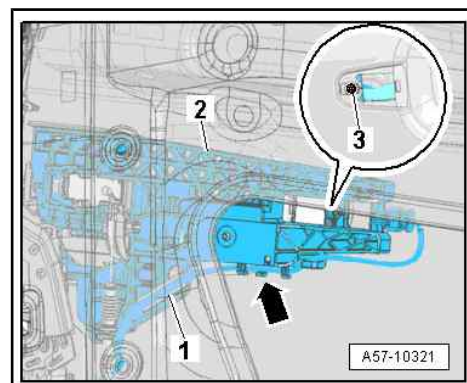
- Where fitted, disengage electrical wiring from mounting bracket -arrow-.
- Move clear binding clip -1- of electrical wire with removal lever - 80 - 200- .



Note

Use soap solution to aid removal if necessary.

- Unscrew bolt -3- and detach mounting bracket -2-.
- Slide mounting bracket with door lock downwards and take both components out of door.



- Disengage operating cable from operating lever at door lock.

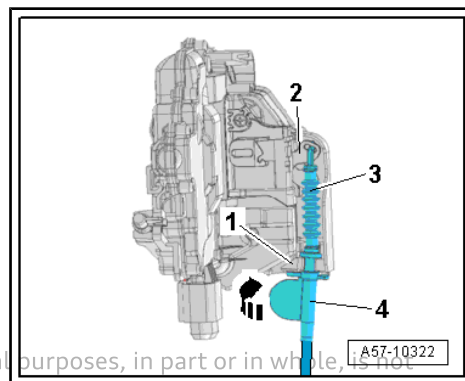
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Installing

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

- Mounting bracket and door lock are still removed.
- 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 support bracket.
- Install mounting bracket and door lock in door ⇒ [page 83](#) .



Note

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- ♦ *On vehicles with convenience key, the wiring harness for the contact sensor for exterior door handle must be routed at the mounting bracket so that it faces the outer door panel.*
- ♦ *If the wiring harness is not routed correctly, this could cause noise when opening and closing the door window as the window would come into contact with the wiring harness.*

2.13 Removing and installing door handle

⇒ [“2.13.1 Removing and installing lock cylinder”, page 80](#)

⇒ [“2.13.2 Removing and installing cap for lock cylinder”, page 81](#)

⇒ [“2.13.3 Removing and installing door handle”, page 81](#)

⇒ [“2.13.4 Removing and installing door handle trim”, page 82](#)

2.13.1 Removing and installing lock cylinder

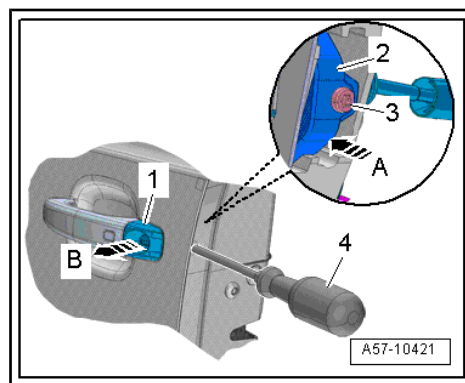
Removing

- Press door seal to one side and remove sealing plug.
- Unscrew clamping bolt -3- as far as possible using a screwdriver -4-.
- Push retaining clip -2- for lock cylinder inwards -arrow A-.
- Pull lock cylinder -1- 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

Installation is carried out in 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.

Tightening torques

- ♦ ⇒ [“2.4.1 Exploded view - door handle and door lock”, page 70](#)



2.13.2 Removing and installing cap for lock cylinder

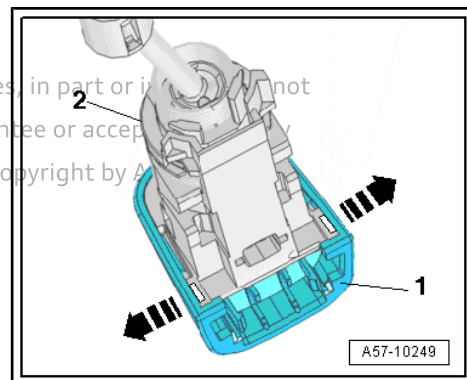
Removing

- Remove lock cylinder ⇒ [page 80](#).
- Pull retaining clips apart -arrows- and detach cap -1- from lock cylinder -2-, using an awl if necessary.

Installing

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

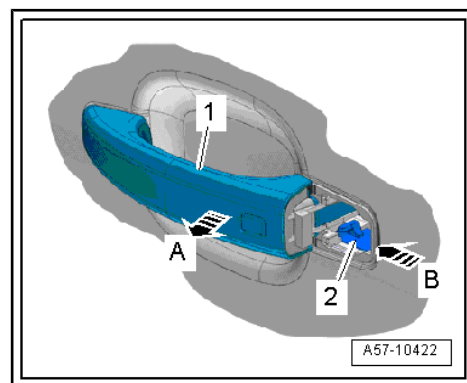
- Press on cap for lock cylinder until it engages audibly.



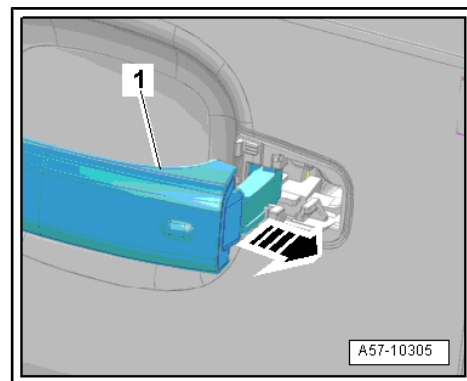
2.13.3 Removing and installing door handle

Removing

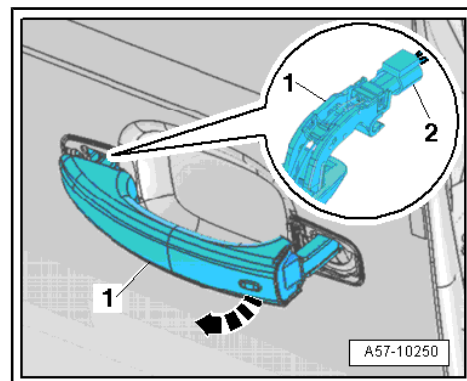
- Remove lock cylinder ⇒ [page 80](#).
- Pull exterior door handle -1- outwards -arrow A- and hold in "open" position.
- Press retaining clip -2- for lock cylinder/housing inwards -arrow B-. Door handle is locked in "open" position.



- 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 Keyless Entry system, unplug electrical connector -2- from exterior door handle.

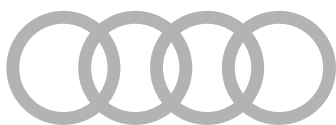
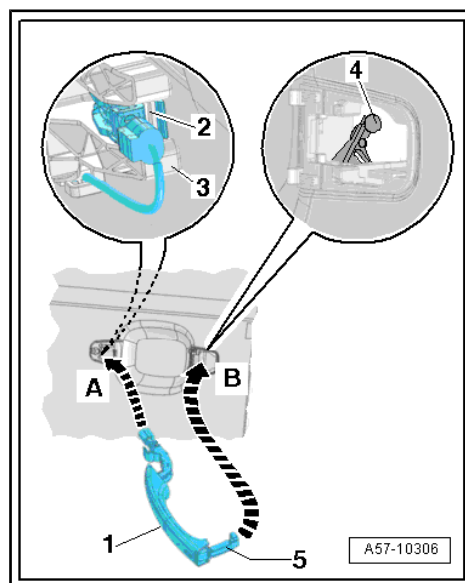
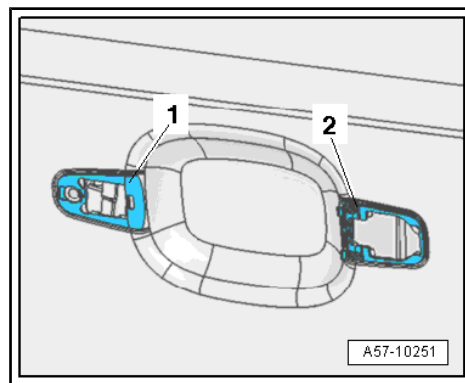




Installing

Installation is carried out in 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.



2.13.4 Removing and installing door handle trim

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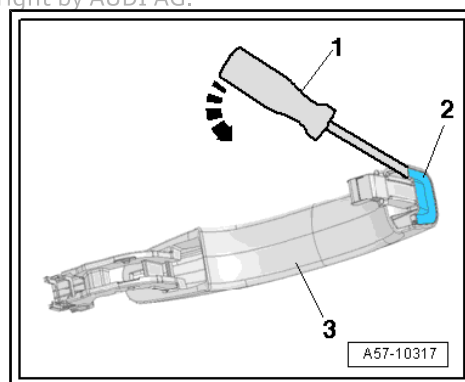
Removing

- Remove exterior door handle ⇒ [page 81](#) .
- 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 reverse order; note the following:

- Push in trim for exterior door handle until it engages audibly.





2.14 Removing and installing door lock

⇒ "2.14.1 Removing and installing door lock", page 83

⇒ "2.14.2 Removing and installing operating cable for door lock", page 84

⇒ "2.14.3 Removing and installing lock cylinder guide", page 85

⇒ "2.14.4 Removing and installing operating cable for door opener", page 85

2.14.1 Removing and installing door lock



Caution

Risk of malfunction

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 mounting bracket outside the door.

Removing

- Remove lock cylinder guide ⇒ page 85 .
- Unplug electrical connector -2- at door lock -1-.



Note

Disregard -arrows-.

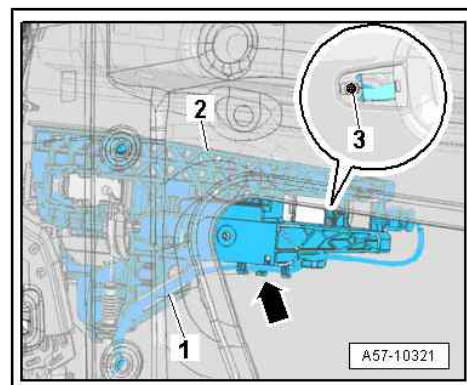
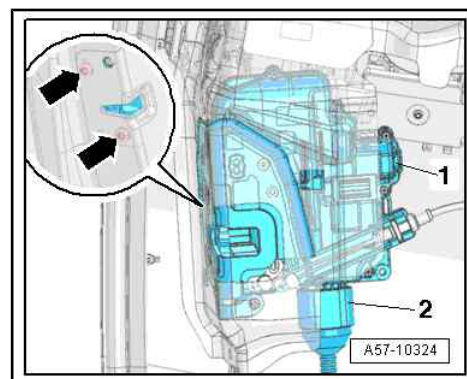
- Remove door handle ⇒ page 81 .
- If fitted, disengage electrical wiring for contact sensor for front exterior door handle from mounting bracket -arrow-.
- Move clear binding clip -1- of electrical wire with removal lever - 80 - 200- .



Note

Use soap solution to aid removal if necessary.

- Unscrew bolt -3- and detach mounting bracket -2-.
- Slide mounting bracket with door lock downwards and take both components out of door.





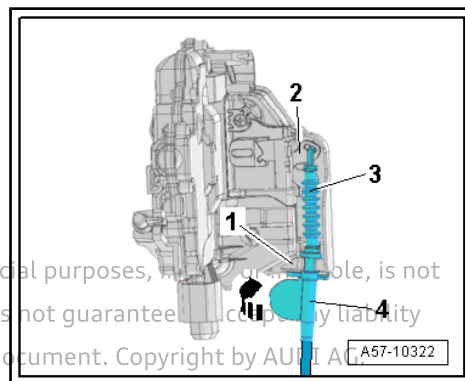
Installing

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

- Mounting bracket and door lock are still removed.
- 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 support bracket.

Tightening torques

- ♦ ➔ [“2.4.2 Exploded view - door handle and door lock \(door lock and striker\)”, page 72](#)



2.14.2 Removing and installing operating cable for door lock



Caution

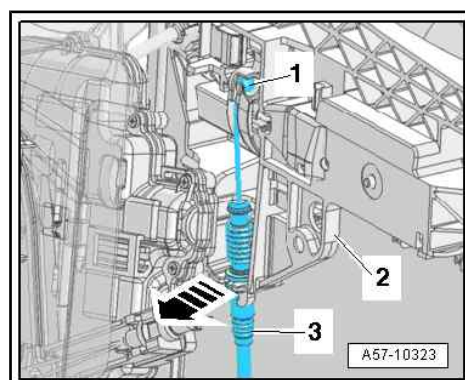
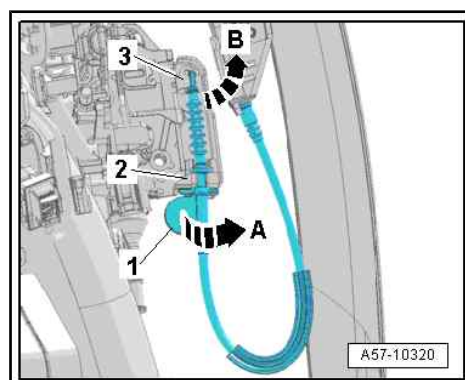
Risk of malfunction

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 mounting bracket outside the door.

Removing

- Remove mounting bracket and door lock ➔ [page 83](#).
 - Turn operating cable on lever -1- 90° in direction of -arrow A- and take it out of 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 support bracket -3- out of mounting on mounting bracket -2- -arrow-.
 - Take out operating shaft.

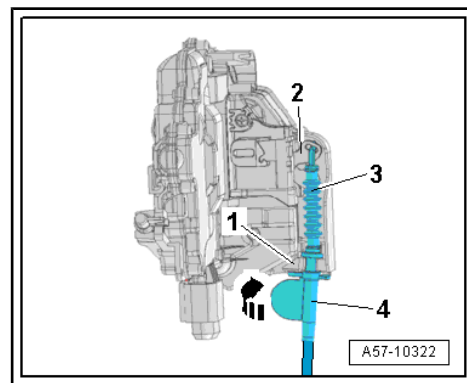




Installing

Installation is carried out in 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 support bracket.
- Install door lock together with mounting bracket.



2.14.3 Removing and installing lock cylinder guide

Removing

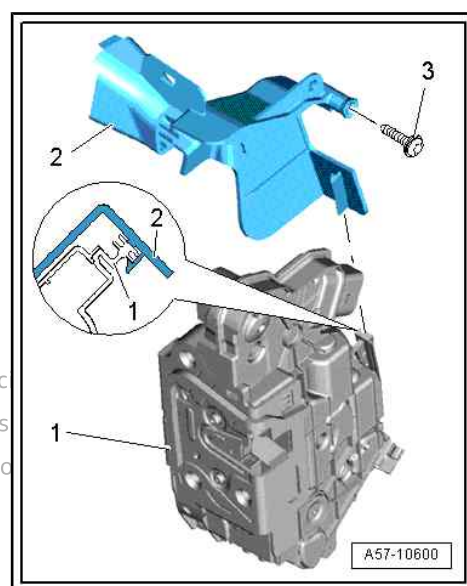
- Remove lock cylinder ⇒ [page 80](#) .
- Remove inner door cover ⇒ [page 77](#) .
- Unscrew bolt -3- from inner door panel.
- Disengage lock cylinder guide -2- at door lock -1-.
- Remove lock cylinder guide.

Installing

Installation is carried out in reverse sequence.

Tightening torques

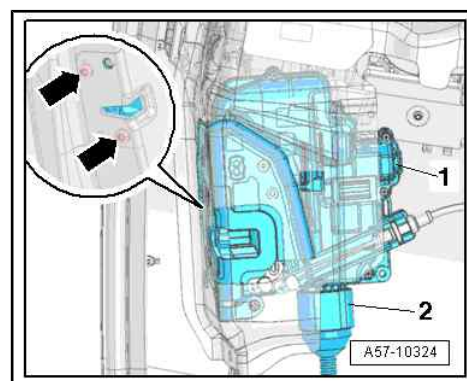
- ♦ ⇒ "2.4.2 Exploded view - door handle and door lock (door lock and striker)", [page 72](#)



2.14.4 Removing and installing operating cable for door opener

Removing

- Remove lock cylinder guide ⇒ [page 85](#) .
- Remove bolts -arrows-.
- Press door lock -1- to the side. If fitted, unplug electrical connector -2-.



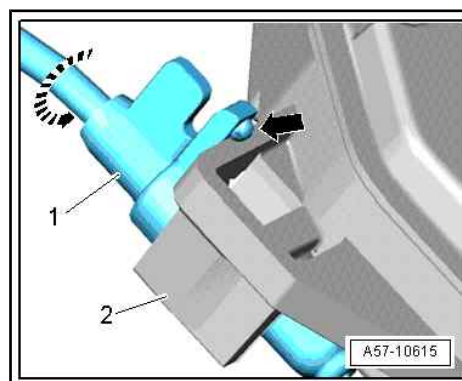
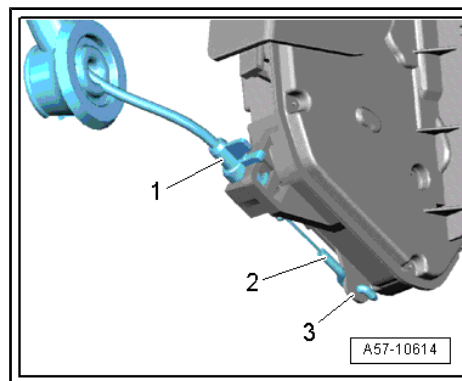


- Release operating cable with clip -1- from door lock by turning 90° at support bracket; then slide out to the side.
- Disengage nipple -2- from release lever -3- at door lock.

Installing

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

- Insert nipple -2- in release lever -3- at door lock.
- Insert clip -1- into support bracket -2- and turn by 90°; this will lock the operating cable -arrow-.



Modified routing for operating cable for door opener

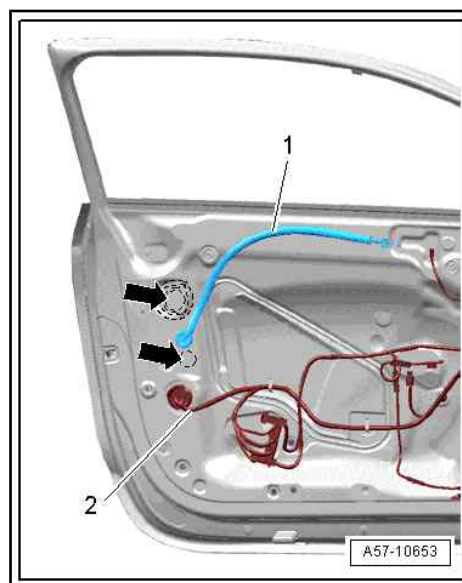


Note

- ◆ *The positions of the holes for the operating cable and electrical wiring have been modified for the doors that are supplied now.*
- ◆ *The old positions of the holes -arrows- are illustrated as dotted lines.*
- Working from inside of door, pull operating cable for interior door handle -1- through inner door panel and press grommet in completely.
- Pull electrical wiring -2- into inner door panel at bottom, as shown.

Tightening torques

- ◆ ⇒ [“2.4.2 Exploded view - door handle and door lock \(door lock and striker\)”, page 72](#)



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3 Central locking system

⇒ [“3.1 Overview of fitting locations - central locking system”, page 87](#)

⇒ [“3.2 Removing and installing driver door control unit J386 and front passenger door control unit J387”, page 90](#)

⇒ [“3.3 Removing and installing rear left door control unit J388 and rear right door control unit J389”, page 90](#)

⇒ [“3.4 Removing and installing interface control unit for vehicle location system J843”, page 90](#)

⇒ [“3.5 Removing and installing bonnet contact switch F266”, page 91](#)

⇒ [“3.6 Removing and installing tank filler flap locking motor V155”, page 91](#)

3.1 Overview of fitting locations - central locking system

⇒ [“3.1.1 Overview of fitting locations - central locking system, vehicles with 2 doors”, page 87](#)

⇒ [“3.1.2 Overview of fitting locations - central locking system, vehicles with 4 doors”, page 89](#)

3.1.1 Overview of fitting locations - central locking system, vehicles with 2 doors



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1 - Front passenger door control unit - J387-

- ❑ Removing and installing
⇒ [page 90](#)

2 - Anti-theft alarm sensor - G578-

- ❑ Removing and installing
⇒ Electrical system;
Rep. gr. 96 ; Anti-theft alarm system; Removing and installing anti-theft alarm sensor - G578-

3 - Tank filler flap locking motor - V155-

- ❑ Removing and installing
⇒ [page 91](#)

4 - Rear lid lock

- ❑ With rear lid central locking motor - V53- / rear lid contact switch for anti-theft alarm - F123- ; cannot be renewed separately
- ❑ Exploded view
⇒ [page 34](#)

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

- ❑ Removing and installing
⇒ [page 90](#)

6 - Driver door control unit - J386-

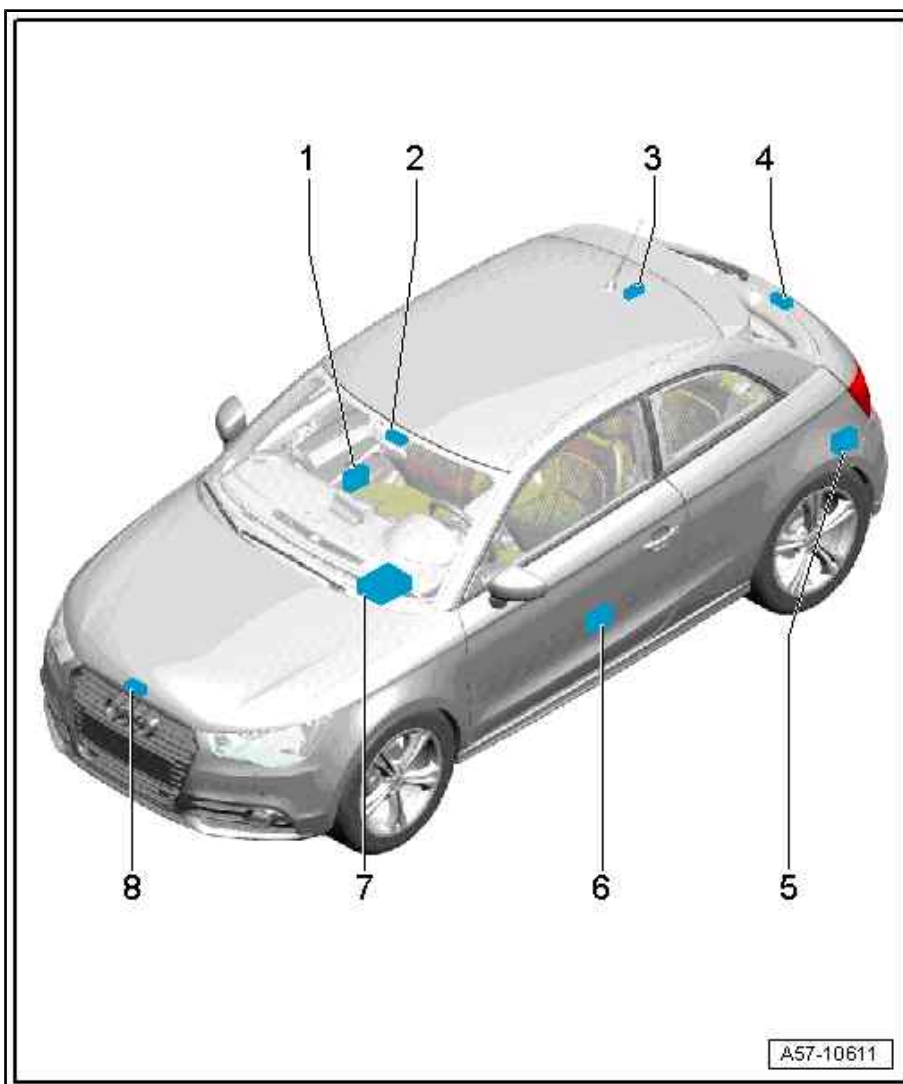
- ❑ Removing and installing
⇒ [page 90](#)

7 - Onboard supply control unit - J519-

- ❑ Removing and installing ⇒ Electrical system; Rep. gr. 97 ; Control units; Removing and installing onboard supply control unit - J519-

8 - Bonnet contact switch - F266-

- ❑ Removing and installing ⇒ [page 91](#)



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3.1.2 Overview of fitting locations - central locking system, vehicles with 4 doors

1 - Front passenger door control unit - J387-

- ❑ Removing and installing
⇒ [page 90](#)

2 - Anti-theft alarm sensor - G578-

- ❑ Removing and installing
⇒ Electrical system;
Rep. gr. 96 ; Anti-theft
alarm system; Remov-
ing and installing anti-
theft alarm sensor -
G578-

3 - Rear right door control unit - J389-

- ❑ Removing and installing
⇒ [page 90](#)

4 - Tank filler flap locking motor - V155-

- ❑ Removing and installing
⇒ [page 91](#)

5 - Rear lid lock

- ❑ With rear lid central
locking motor - V53- /
rear lid contact switch
for anti-theft alarm -
F123- ; cannot be re-
newed separately
- ❑ Exploded view
⇒ [page 34](#)

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

- ❑ Removing and installing
⇒ [page 90](#)

7 - Rear left door control unit - J388-

- ❑ Removing and installing ⇒ [page 90](#)

8 - Driver door control unit - J386-

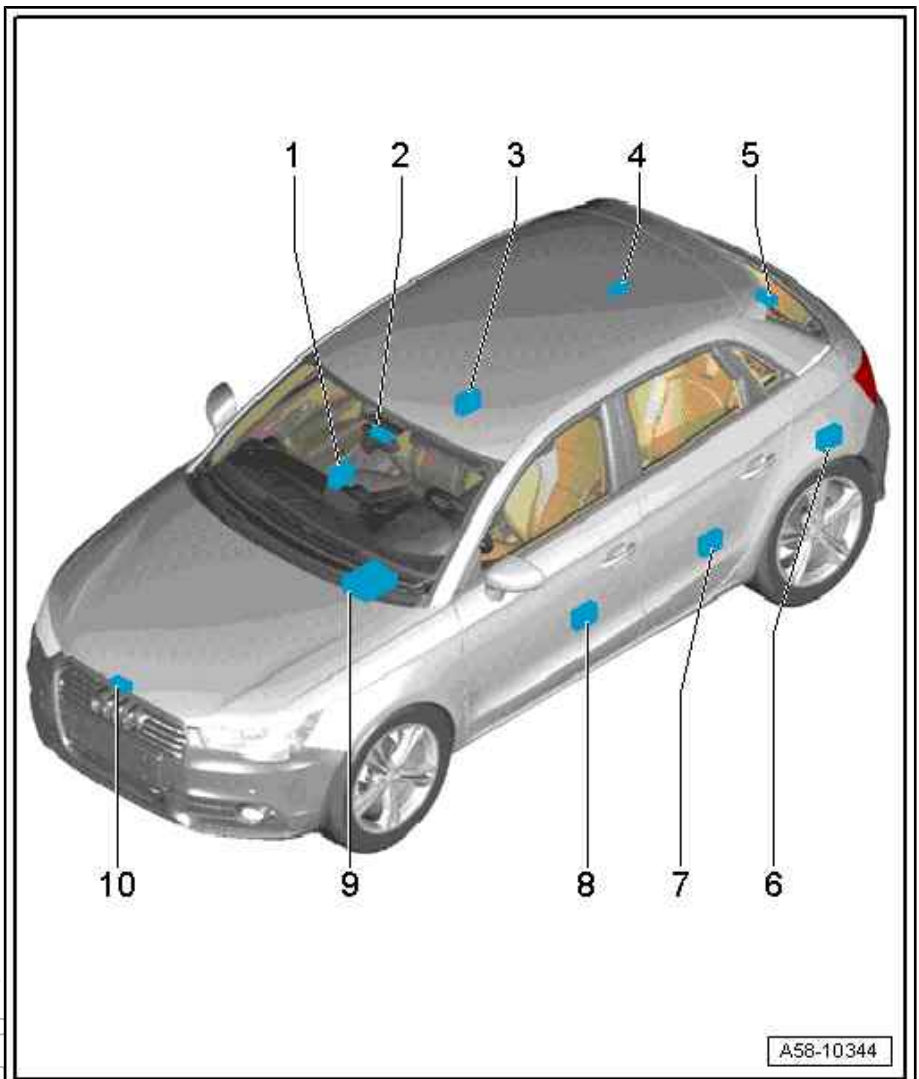
- ❑ Removing and installing ⇒ [page 90](#)

9 - Onboard supply control unit - J519-

- ❑ Removing and installing ⇒ Electrical system; Rep. gr. 97 ; Control units; Removing and installing onboard supply control unit - J519-

10 - Bonnet contact switch - F266-

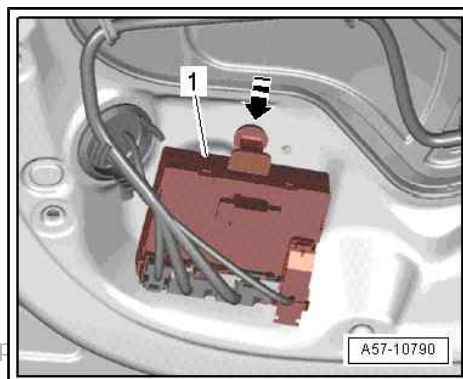
- ❑ Removing and installing ⇒ [page 91](#)



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

Removing

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



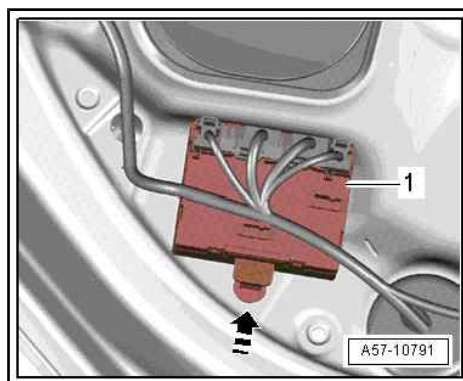
Installing

Installation is carried out in reverse sequence.

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

Removing

- Remove door trim (rear) ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim (rear); Removing and installing door trim (rear) .
- Unplug electrical connectors; to do so, pull locking element and press release mechanism downwards.
- Unplug electrical connectors at door control unit and disengage wiring.
- Press retaining catch in direction of -arrow- and disengage door control unit -1- from door shell.



Installing

Installation is carried out in reverse sequence.

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

Removing

- Disconnect battery earth wire with ignition switched off ⇒ Electrical system; Rep. gr. 27 ; Battery; Disconnecting and connecting battery .
- Remove luggage compartment side trim (left-side) ⇒ General body repairs, interior; Rep. gr. 70 ; Luggage compartment trim panels; Removing and installing luggage compartment side trim .

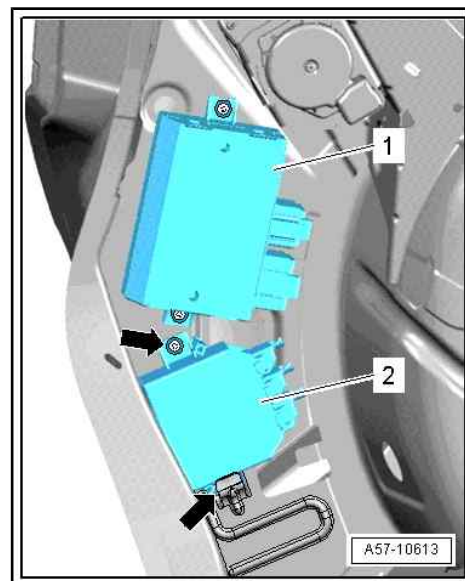


- Unplug all connectors at interface control unit for vehicle location system - J843- -2-.
- Unscrew nuts -arrows- and take control unit out of vehicle.

Installing

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

- Connect battery. Procedures required ⇒ Electrical system; Rep. gr. 27 ; Battery; Disconnecting and connecting battery .



3.5 Removing and installing bonnet contact switch - F266-

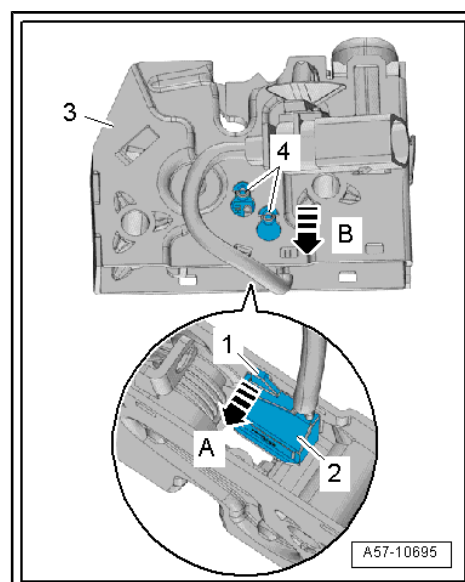
Removing

- Remove bonnet lock ⇒ [page 28](#) .
- Lift retaining tab -1- -arrow A-.
- Disengage contact switch -2- at bonnet lock -3- -arrow B- and detach contact switch.

Installing

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

- Guide pins -4- on contact switch must be inserted correctly in bonnet lock.



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

Removing

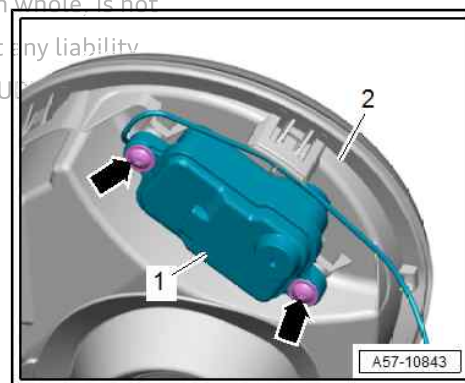
- Remove tank flap unit ⇒ [page 46](#) .
- Remove bolts -arrows-.
- Detach tank filler flap locking motor -1- with manual release cable from tank flap unit -2-.
- If tank filler flap locking motor is to be renewed, remove manual release cable for tank flap ⇒ [page 45](#) .

Installing

Installation is carried out in reverse sequence.

Tightening torques

- ◆ ⇒ [“3.1.1 Exploded view - tank flap unit”, page 44](#)





58 – Rear doors, door components

1 Door

⇒ "1.1 Exploded view - door", page 92

⇒ "1.2 Exploded view - door seals", page 94

⇒ "1.3 Removing and installing door", page 95

⇒ "1.4 Removing and installing door arrester", page 95

⇒ "1.5 Adjusting door", page 96

⇒ "1.6 Adjusting striker", page 99

⇒ "1.7 Removing and installing door seals", page 99

1.1 Exploded view - door

⇒ "1.1.1 Exploded view - door", page 92

⇒ "1.1.2 Exploded view - door arrester", page 93

1.1.1 Exploded view - door

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1 - Door

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

2 - Door arrester

- ❑ Exploded view
⇒ [page 93](#) .

3 - Bolt

- ❑ Tightening torque
⇒ [page 93](#)

4 - Sealing piece

5 - Cap

- ❑ Fit onto stud

6 - Door hinge (top)

7 - Bolt

- ❑ 32 Nm

8 - Bolt

- ❑ 45 Nm

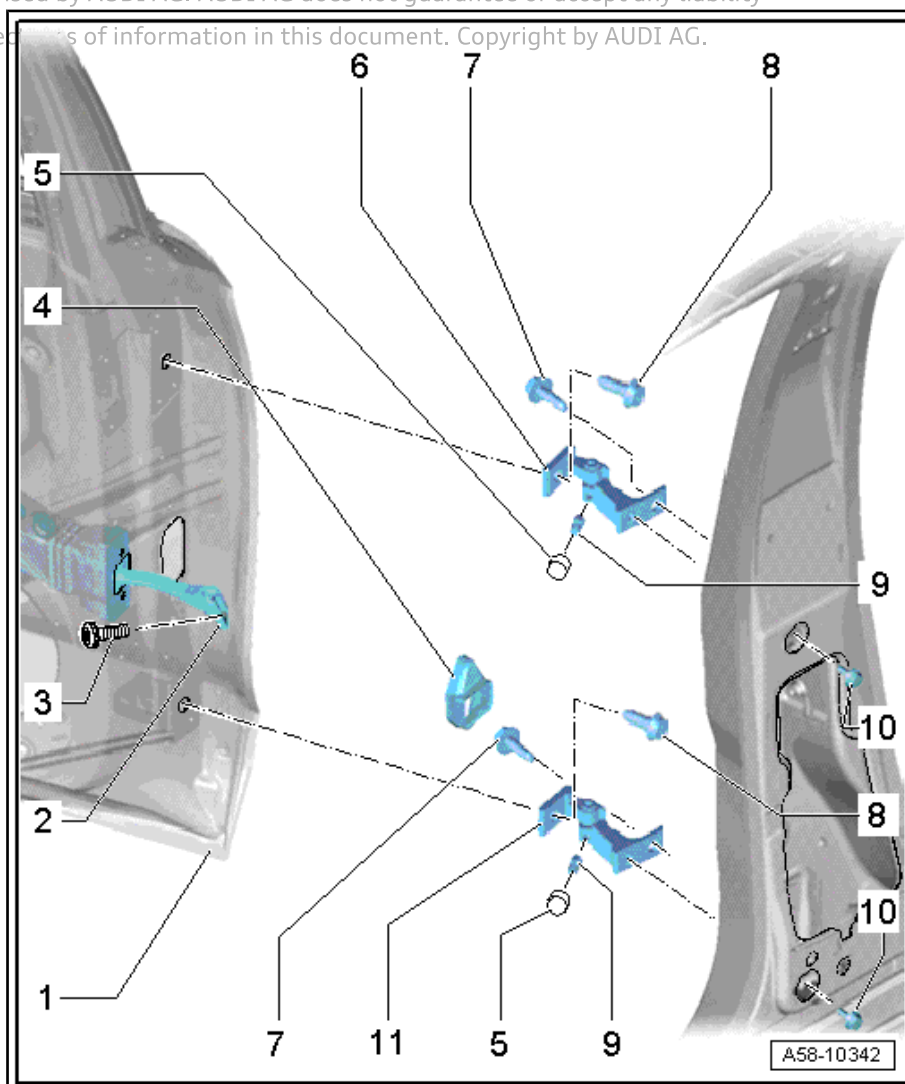
9 - Stud

- ❑ 23 Nm

10 - Bolt

- ❑ 32 Nm

11 - Door hinge (bottom)





1.1.2 Exploded view - door arrester

1 - Door arrester

- ❑ Removing and installing
⇒ [page 95](#)

2 - Cap

- ❑ For door arrester
- ❑ Note direction of installation

3 - Grommet

4 - Bolt

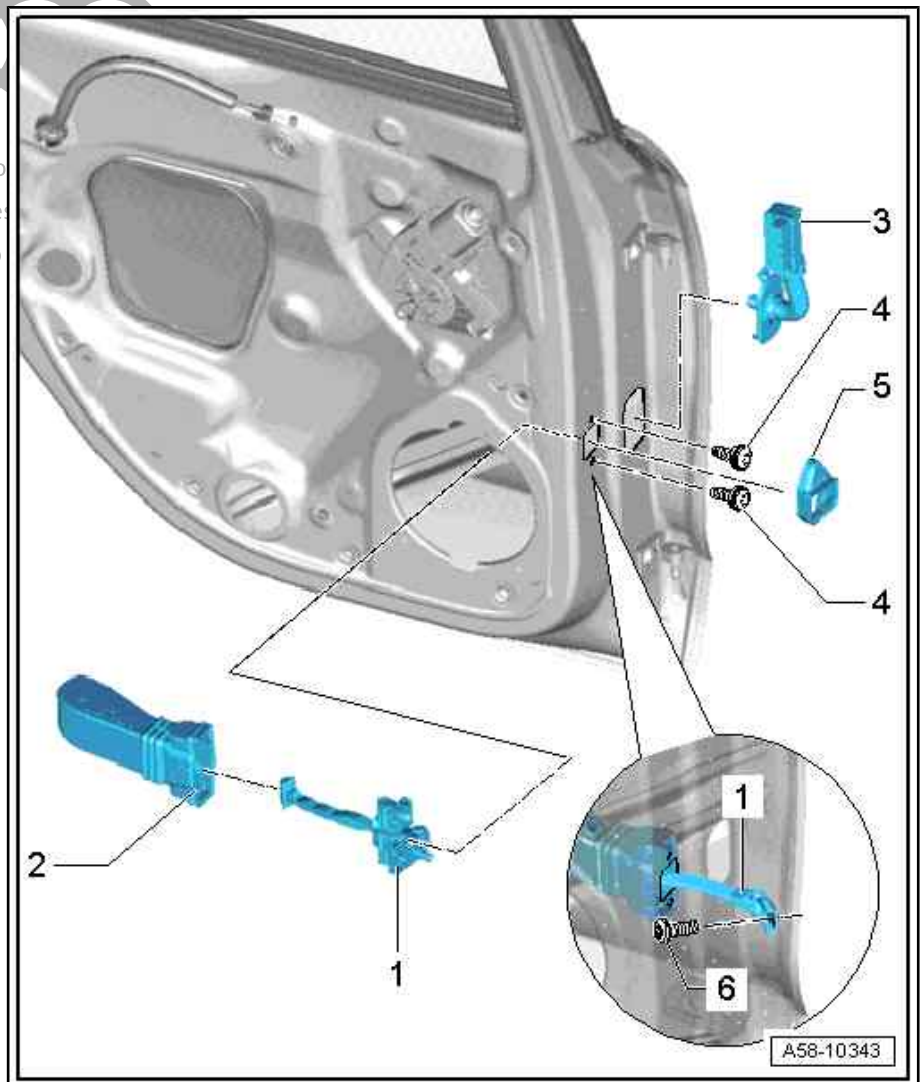
- ❑ 8 Nm

5 - Sealing grommet

- ❑ For door arrester

6 - Bolt

- ❑ 33 Nm





1.2 Exploded view - door seals

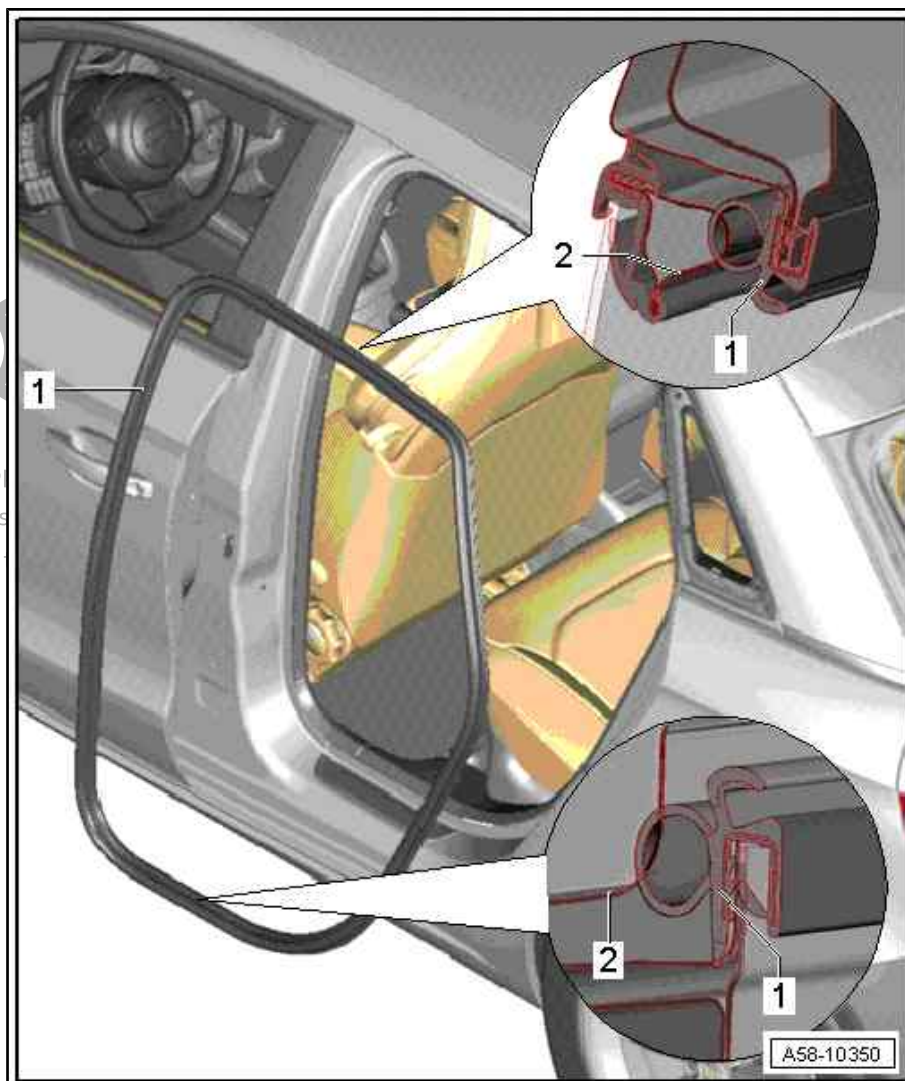
1 - Inner door seal

- ❑ Removing and installing
⇒ [page 99](#)

2 - Door



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1.3 Removing and installing door

Removing

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



Caution

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

- Carefully lift door off hinges.

Installing

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

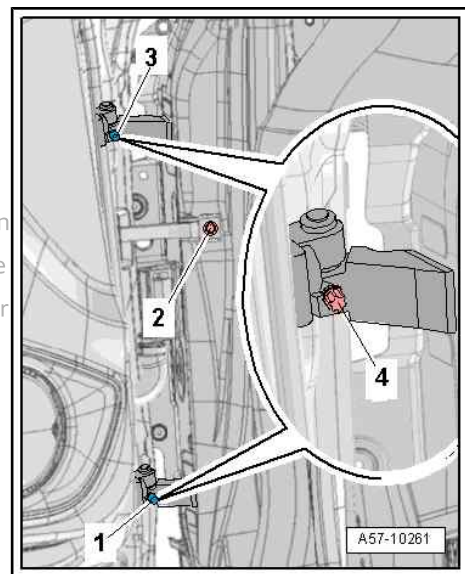


Note

The door does not have to be adjusted after it has been installed.

Tightening torques

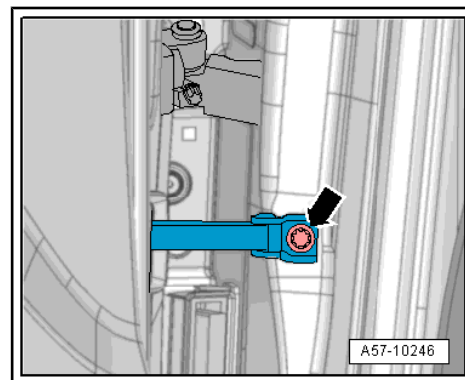
- ◆ ⇒ [“1.1.2 Exploded view - door arrester”, page 93](#)



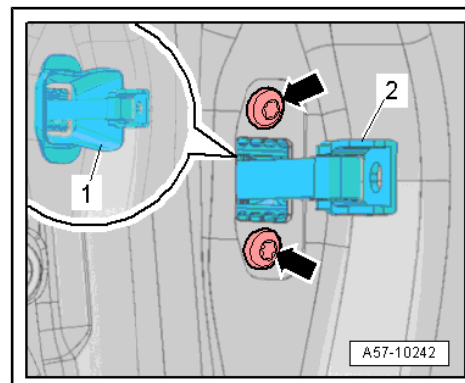
1.4 Removing and installing door arrester

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 lower loudspeaker ⇒ Communication; Rep. gr. 91 ; Sound system; Overview of fitting locations - sound system .
- Unscrew bolt -arrow- for door arrester at A-pillar.



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





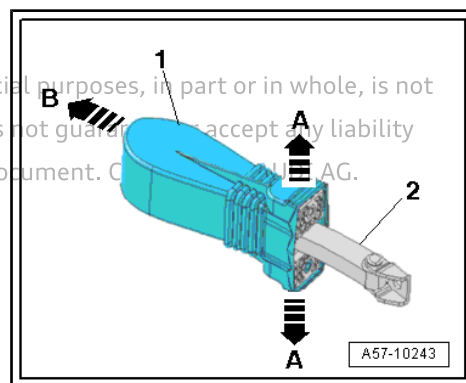
- Pull rubber sleeve -1- on door arrester to the side slightly -arrows A-.
- Detach rubber sleeve from door arrester -2- -arrow B-.

Installing

Installation is carried out in reverse sequence.

Tightening torques

- ◆ ⇒ "1.1.2 Exploded view - door arrester", page 93



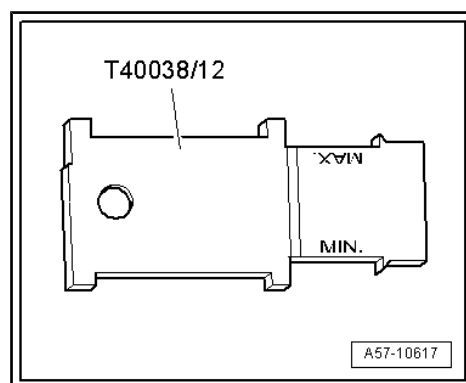
1.5 Adjusting door

Special tools and workshop equipment required

- ◆ Setting gauge - 3371-



- ◆ Template - T40038 /12-

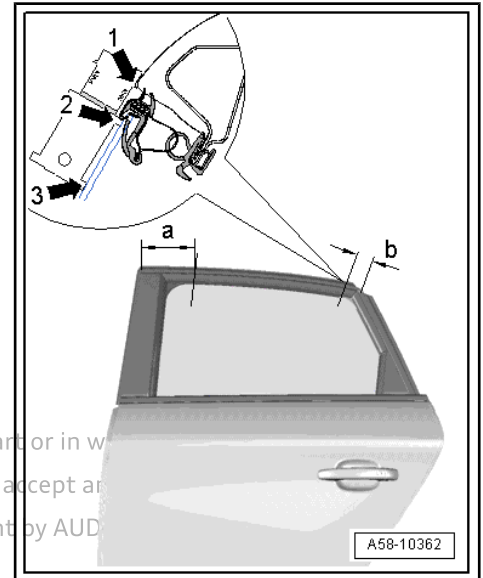


- ◆ The »min and max« markings are used to check the side adjustment.
- ◆ The groove in the middle of the template is used to check the height of the door.
- ◆ The 0.4 mm graduation is used to check the underhang of the door relative to the wing, and of the side panel to the door.



Checking lateral adjustment

- Use template - T40038 /12- for check.
- Position template at distance -a- = 150 mm and -b- = 50 mm.
- Lugs of template must make contact with roof at top -arrow 1-.
- »Min« adjustment is correct when »points -1- and -3-« make contact.
- Point -2- may show a gap.
- »Max« adjustment is correct when »points -2- and -3-« make contact.
- Point -1- may show a gap.

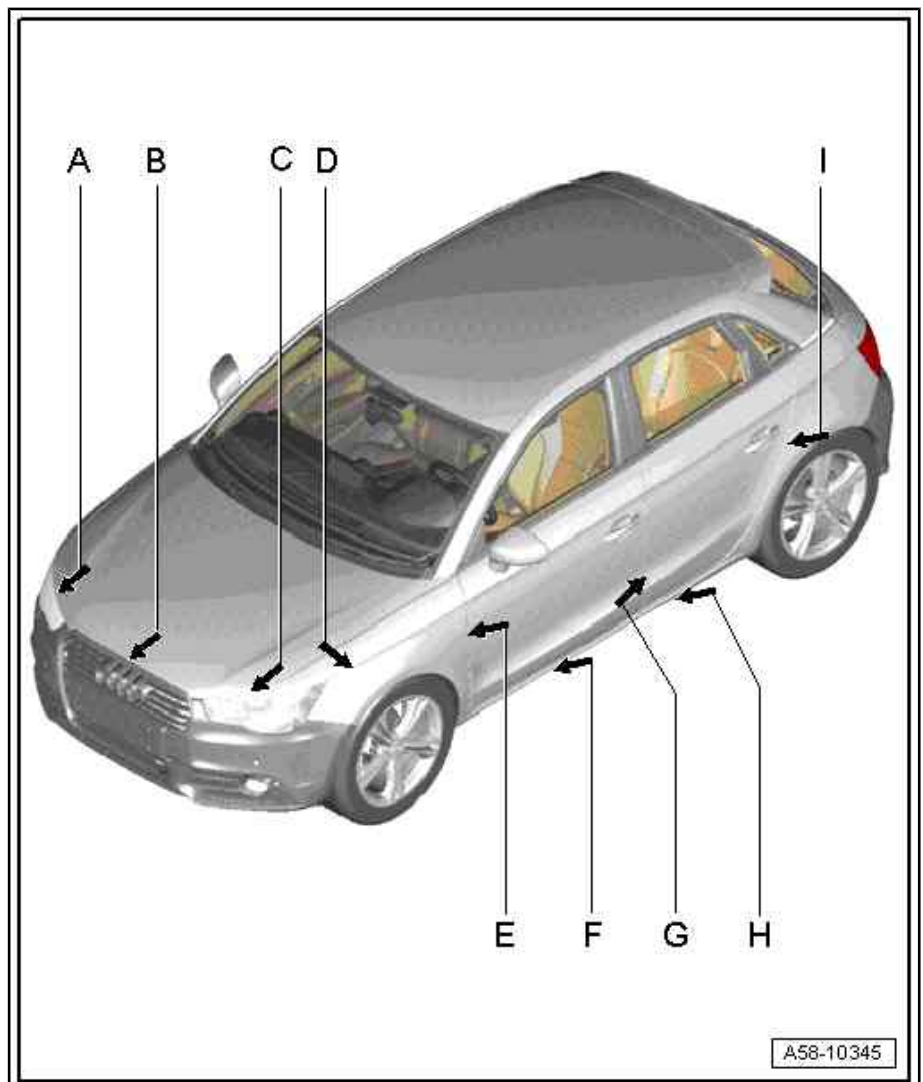


Checking adjustment of height

- Slide template upwards until lug of template makes contact with roof.

- Height is correctly adjusted when bottom edge of window guide is within width of template groove.

Gap widths for rear door





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).

- ♦ Dimension E = 3.5 mm
- ♦ Dimension F = 6 mm
- ♦ Dimension G = 4.5 mm
- ♦ Dimension H = 6 mm
- ♦ Dimension I = 3.5 mm

Longitudinal adjustment

- Loosen bolts (top and bottom) -arrows B- at hinge and B-pillar -item 1-.
- Adjust door -2- lengthwise.
- Tighten bolts -arrows B-.

Tightening torques

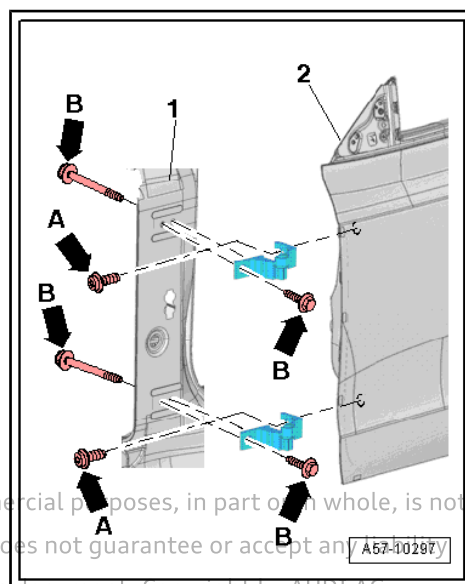
- ♦ ⇒ ["1.1.1 Exploded view - door", page 92](#)

Height adjustment

- Loosen bolts (top and bottom) -arrows A- at hinge.
- Adjust door -2- lengthwise.
- Tighten bolts -arrows A-.

Tightening torques

- ♦ ⇒ ["1.1.1 Exploded view - door", page 92](#)





1.6 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.

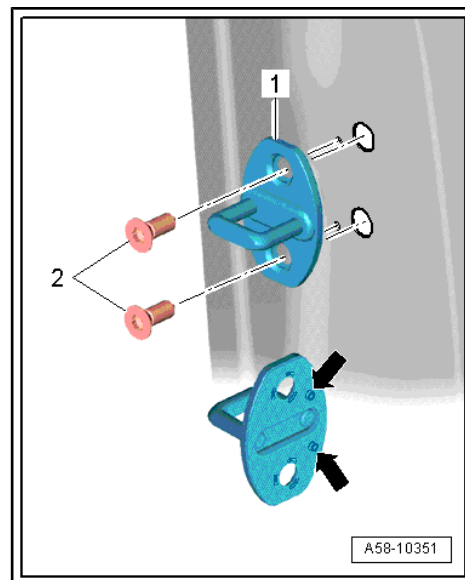


Note

- ◆ *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 torques

- ◆ ⇒ ["2.4.2 Exploded view - door lock, operating cable and striker", page 107](#)



1.7 Removing and installing door seals

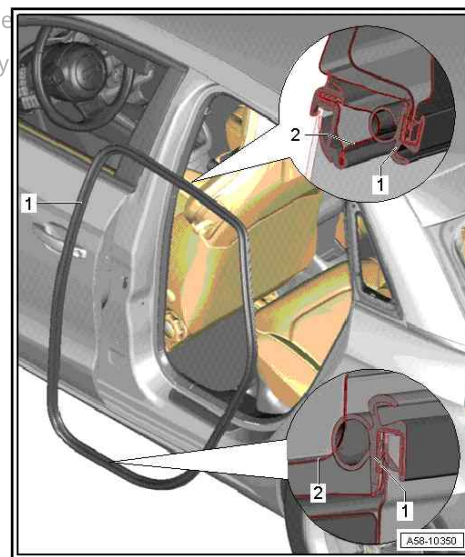
Removing

- Unfasten B-pillar trim (top and bottom) ⇒ General body repairs, interior; Rep. gr. 70 ; Passenger compartment trim panels; Removing and installing B-pillar trim .
- Unfasten sill panel trim ⇒ General body repairs, interior; Rep. gr. 70 ; Passenger compartment trim panels; Removing and installing sill panel trim .
- Unfasten C-pillar trim ⇒ General body repairs, interior; Rep. gr. 70 ; Passenger compartment trim panels; Removing and installing C-pillar trim .
- Unfasten D-pillar trim ⇒ General body repairs, interior; Rep. gr. 70 ; Passenger compartment trim panels; Removing and installing D-pillar trim .
- Press headliner off in vicinity of seal.
- Detach inner door seal -1- from body flange -2-.

Installing

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

- Align coloured marking on seal with marking on side frame at B-pillar (top) and press onto vehicle body flange all around by hand.





2 Door components

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- ⇒ [“2.1 Exploded view - window regulator”, page 100](#)
- ⇒ [“2.2 Exploded view - door components”, page 103](#)
- ⇒ [“2.3 Exploded view - window guides and window slot trim strips”, page 104](#)
- ⇒ [“2.4 Exploded view - door handle and door lock”, page 106](#)
- ⇒ [“2.5 Removing and installing window regulator motor”, page 108](#)
- ⇒ [“2.6 Removing and installing window regulator”, page 108](#)
- ⇒ [“2.7 Removing and installing window guide”, page 109](#)
- ⇒ [“2.8 Removing and installing outer window slot trim strip”, page 109](#)
- ⇒ [“2.9 Removing and installing inner door cover”, page 111](#)
- ⇒ [“2.10 Removing and installing striker”, page 111](#)
- ⇒ [“2.11 Removing and installing mounting bracket”, page 112](#)
- ⇒ [“2.12 Removing and installing door handle”, page 113](#)
- ⇒ [“2.13 Removing and installing door lock”, page 115](#)

2.1 Exploded view - window regulator

- ⇒ [“2.1.1 Exploded view - window regulator”, page 100](#)
- ⇒ [“2.1.2 Exploded view - window regulator, window regulator motor”, page 102](#)

2.1.1 Exploded view - window regulator



1 - Door

2 - Window regulator

- ❑ Removing and installing
⇒ [page 108](#)

3 - Clip

4 - Door window

- ❑ Removing and installing
⇒ [page 209](#)

5 - Nut

- ❑ 6 Nm

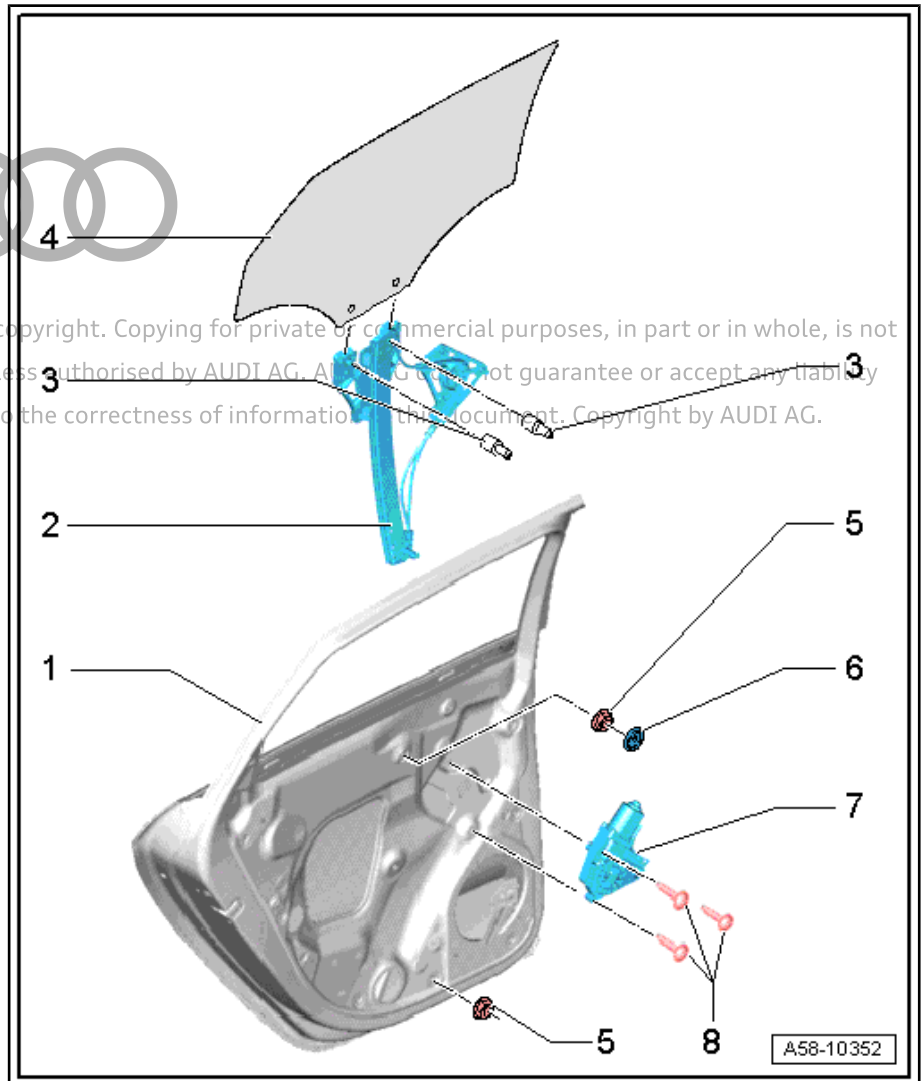
6 - Plug

7 - Window regulator motor

- ❑ Exploded view
⇒ [page 102](#)

8 - Bolt

- ❑ 3x
- ❑ 3.5 Nm





2.1.2 Exploded view - window regulator, window regulator motor

1 - Window regulator motor

- ❑ Removing and installing
⇒ [page 108](#)

2 - Electrical connector

- ❑ Unplug at door control unit.

3 - Bolt

- ❑ Tightening torque
⇒ [Item 8 \(page 101\)](#)

4 - Window regulator

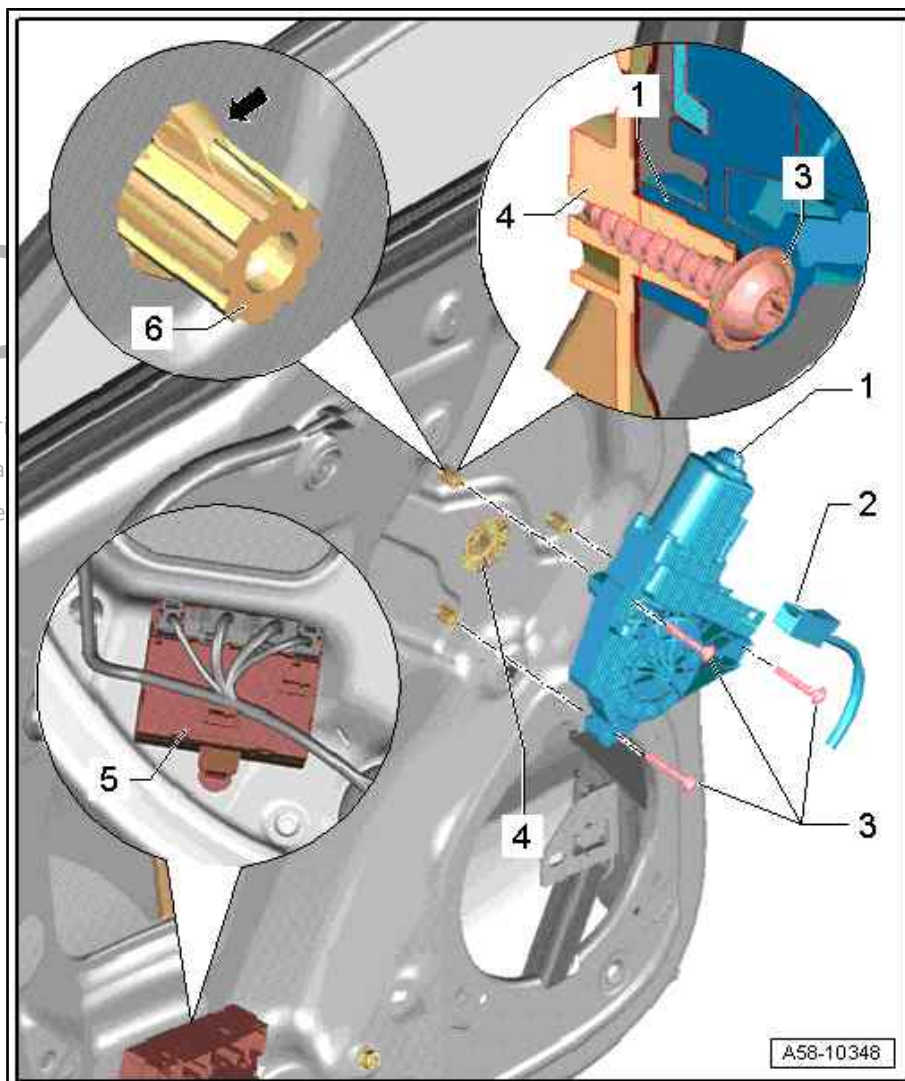
- ❑ Exploded view
⇒ [page 100](#)

5 - Rear door control unit

- ❑ Rear left door control unit - J388-, rear right door control unit - J389-
- ❑ Removing and installing
⇒ [page 90](#)

6 - Threaded pin

- Use an 11 mm socket attachment to release catches -arrow- of threaded pins for window regulators (push socket attachment onto threaded pin).

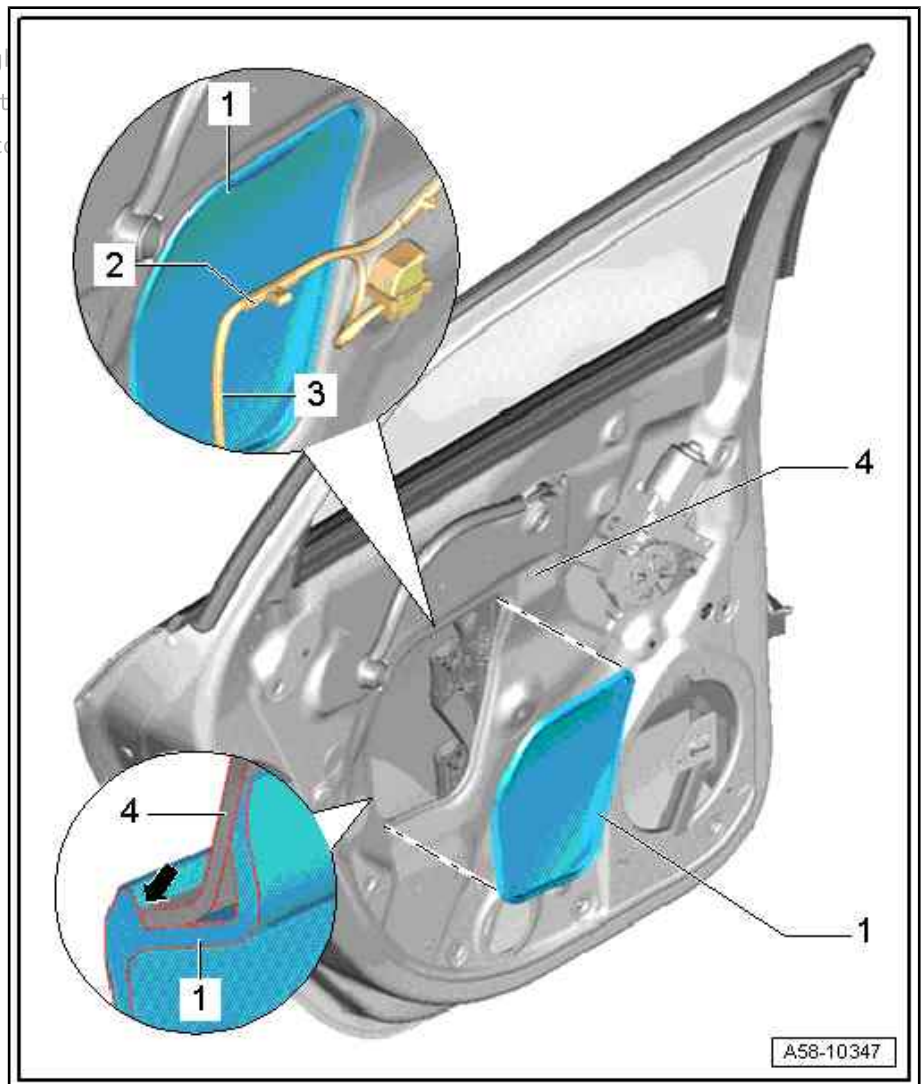




2.2 Exploded view - door components

Inner door cover

- 1 - Cover
 - 2 - Retaining clip
 - 3 - Electrical wire
 - 4 - Rear door
- Inner panel



A58-10347



2.3 Exploded view - window guides and window slot trim strips

⇒ "2.3.1 Exploded view - window guides", page 104

⇒ "2.3.2 Exploded view - window slot trim strips", page 105

2.3.1 Exploded view - window guides

1 - Window guide

- Removing and installing
⇒ page 109

2 - Door

3 - Clip

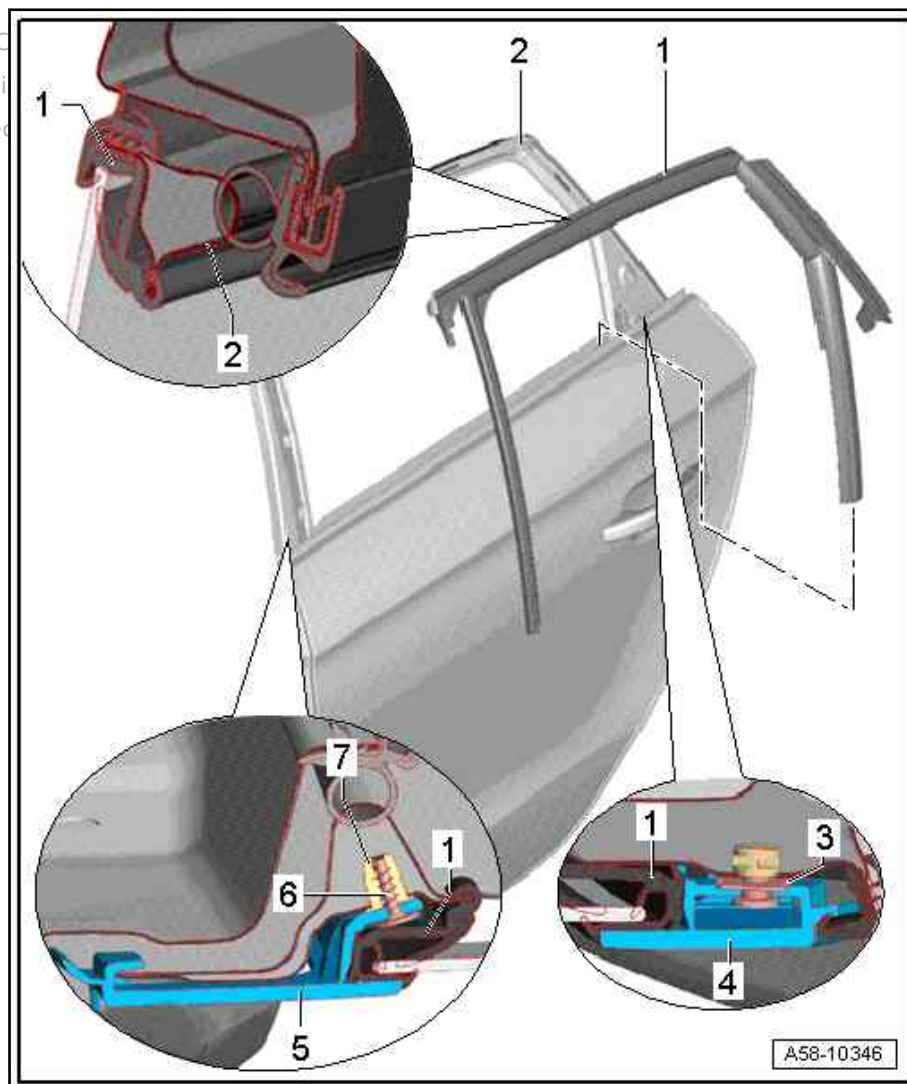
4 - Trim panel for C-pillar

5 - Trim panel for B-pillar

6 - Bolt

- 2.5 Nm

7 - Clip





2.3.2 Exploded view - window slot trim strips

1 - Seal (rear)

- ☐ Insert underneath trim panel for C-pillar

2 - Door

3 - Outer window slot trim strip

- Removing and installing
⇒ [page 109](#)

4 - Door window

5 - Inner window slot trim strip

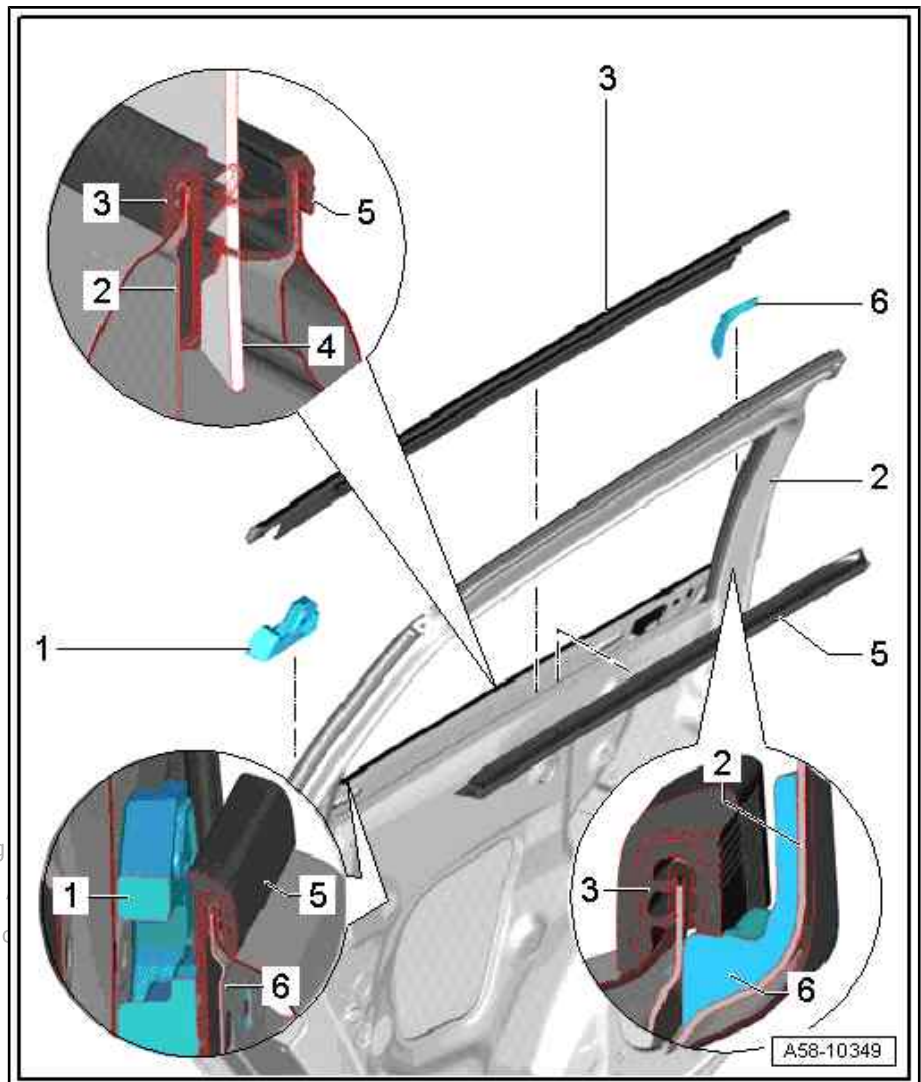
- ☐ Removing:

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

- Detach window slot trim strip upwards from door flange.

6 - Seal (rear)

- ☐ Insert underneath trim panel for B-pillar



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2.4 Exploded view - door handle and door lock

⇒ ["2.4.1 Exploded view - door handle, mounting bracket", page 106](#)

⇒ ["2.4.2 Exploded view - door lock, operating cable and striker", page 107](#)

2.4.1 Exploded view - door handle, mounting bracket

1 - Trim for exterior door handle

- ❑ Removing and installing
⇒ [page 82](#)

2 - Bolt

- ❑ 2.5 Nm

3 - Operating cable

- ❑ For door lock



Caution

Risk of malfunction

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 84](#)

4 - Mounting bracket

- ❑ Removing and installing
⇒ [page 78](#)

5 - Backing plate (front)

- ❑ Removing and installing
⇒ ["2.13.3 Removing and installing door handle", page 81](#)

6 - Backing plate (rear)

- ❑ Removing and installing ⇒ ["2.13.3 Removing and installing door handle", page 81](#)

7 - Housing

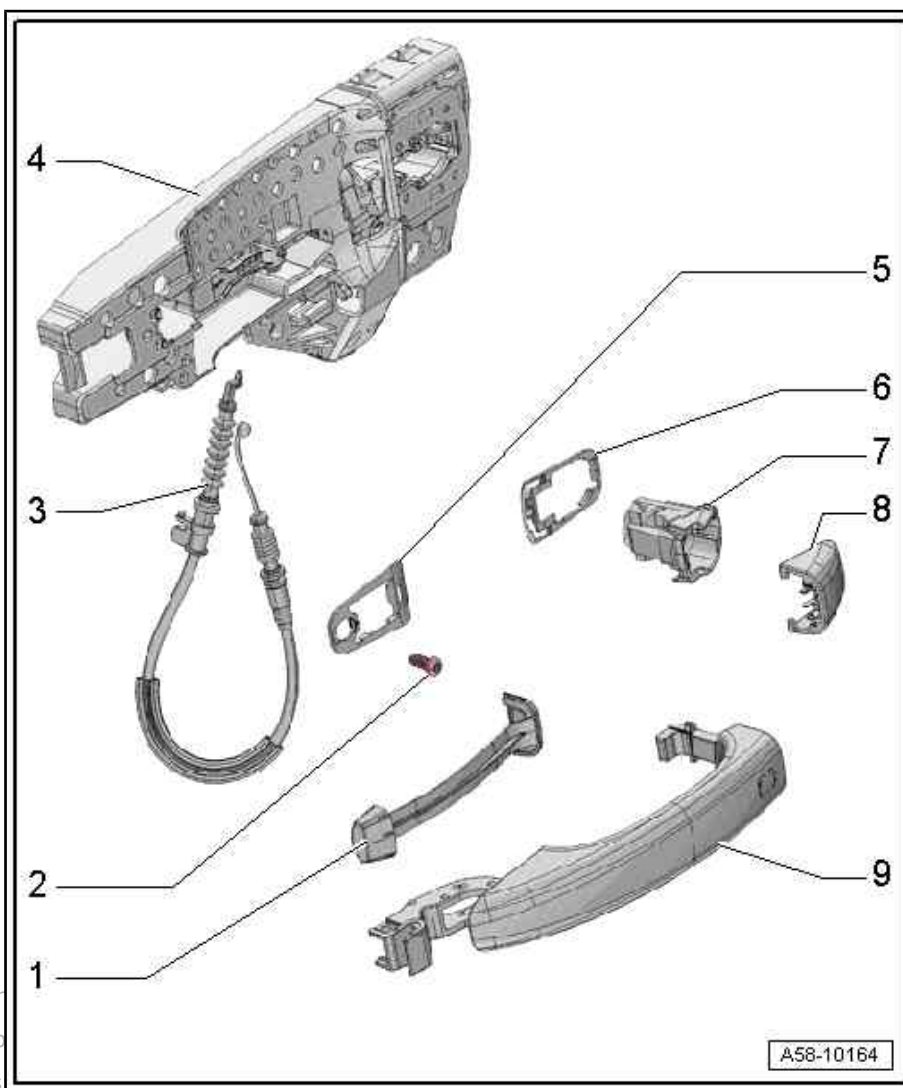
- ❑ Removing and installing ⇒ [page 113](#)

8 - Cap

- ❑ Removing and installing ⇒ [page 113](#)

9 - Exterior door handle

- ❑ Removing and installing ⇒ [page 81](#)





2.4.2 Exploded view - door lock, operating cable and striker

1 - Striker

- ❑ Removing and installing
⇒ [page 111](#)

2 - Bolt

- ❑ 25 Nm

3 - Bolt

- ❑ 19 Nm

4 - Door lock

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

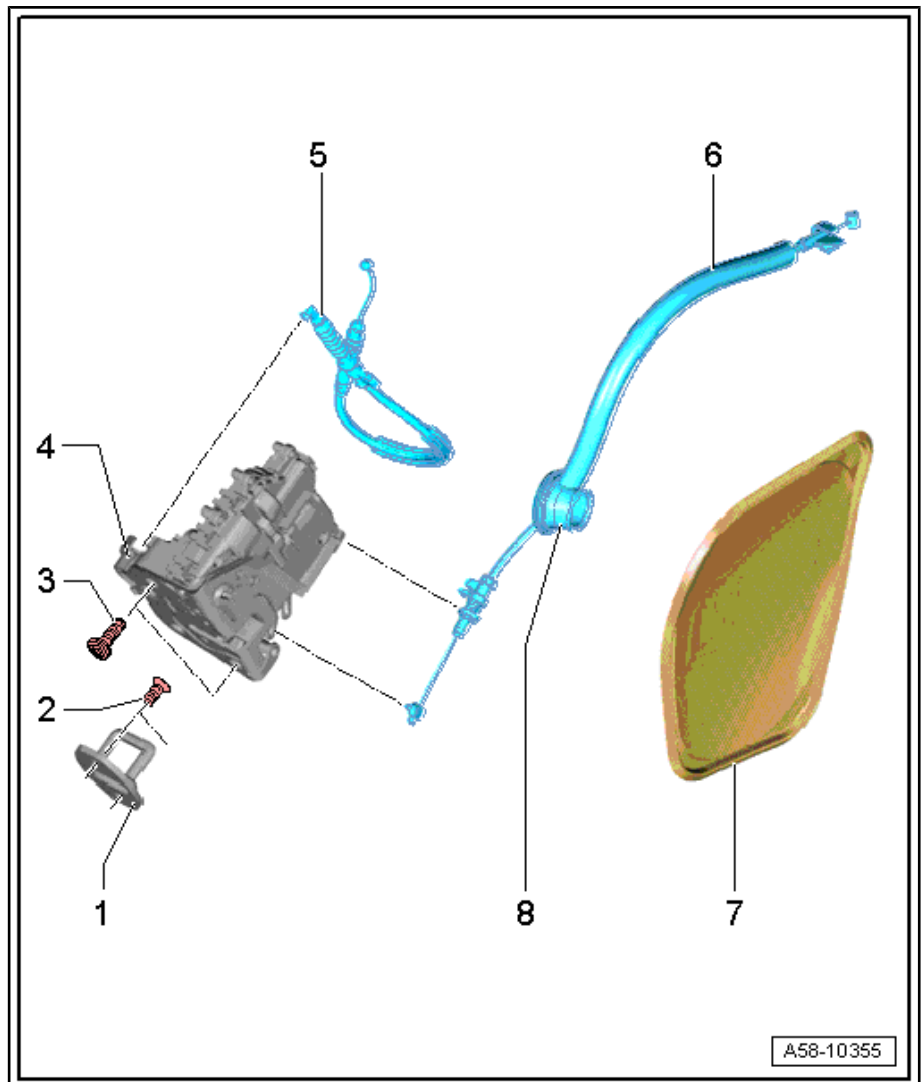
5 - Operating cable for door lock

6 - Operating cable for door opener

- ❑ Removing and installing
⇒ [page 117](#)

7 - Cover for inner door panel

- ❑ Removing and installing
⇒ [page 111](#)



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2.5 Removing and installing window regulator motor

Removing

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

Installing

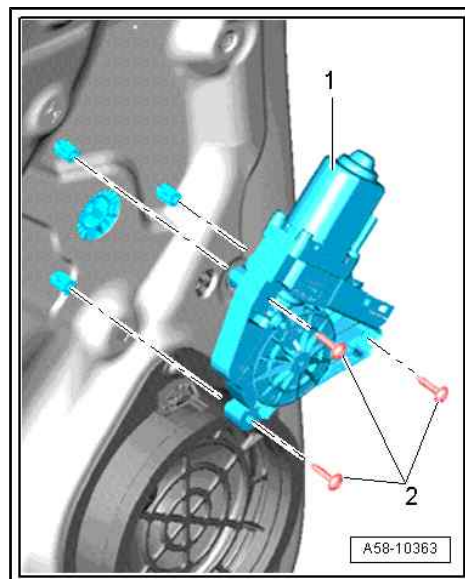
Installation is carried out in reverse order; note the following:

- Slide window regulator motor -1- onto threaded pins and tighten bolts -2-.



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.*



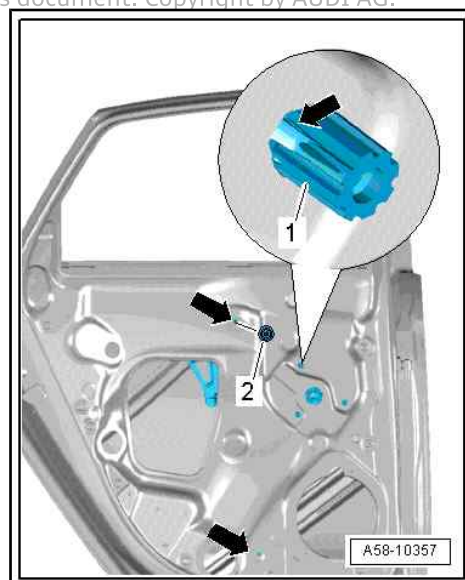
Tightening torques

- ♦ ⇒ ["2.1.2 Exploded view - window regulator, window regulator motor", page 65](#)

2.6 Removing and installing window regulator

Removing

- Remove window regulator motor ⇒ [page 108](#) .
- Remove door window ⇒ [page 209](#) .
- Use an 11 mm socket attachment to release catches -arrow- of threaded pins -1- for window regulators (push socket attachment onto threaded pin).
- Press threaded pin out of inner door panel.
- Prise out cap -2-.
- Loosen nuts at top of window regulator, but do not remove.
- Remove nuts at bottom of window regulator.
- First press window regulator with threaded pins out of inner door panel at bottom; then lift it out of "key-holes".
- Lift window regulator out through opening in inner door panel towards rear.





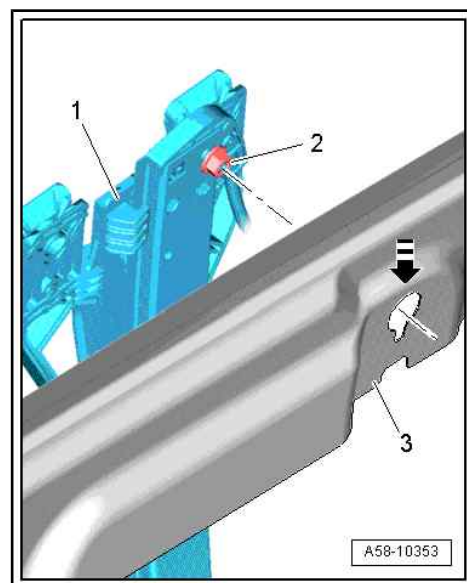
Installing

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

- Screw nuts -2- loosely onto top of threaded pins.
- Guide in window regulator -1- through opening in inner door panel and first insert it at top in "key-holes" -3- in direction of -arrow-.
- Slide threaded pins at bottom of window regulator through inner door panel and secure with nuts.
- Catches of threaded pins for window regulator must engage in inner door panel.

Tightening torques

- ◆ ⇒ ["2.1.1 Exploded view - window regulator", page 100](#)



2.7 Removing and installing window guide

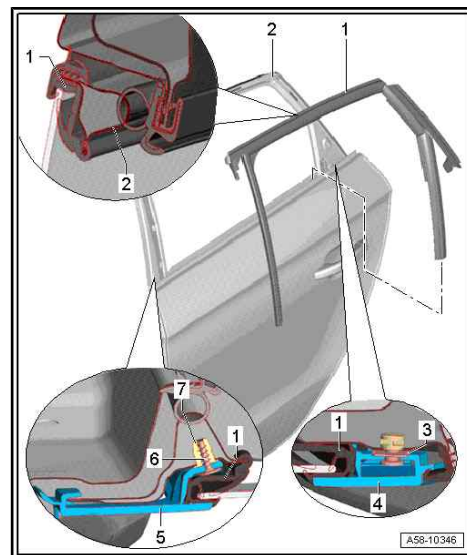
Removing

- Door window and triangular trim removed
- Unclip window guide (front) from door.
- Starting at the top, detach window guide from door, also detaching it at A-pillar and B-pillar sides.
- Lift window guide out of door.

Installing

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

- To facilitate assembly, coat window guide with soap solution.
- Position window guide at B-pillar (top) and at the same time knock moulded section onto inner door panel.
- Press window guide onto window frame (top), working towards rear, and onto C-pillar all along.
- Position window guide at corner of C-pillar and slide it downwards into guide moulding.
- After installing trim panel for B-pillar -4-, insert window guide into trim panel from top to bottom.
- After installing trim panel for C-pillar -5-, slide window guide downwards into trim panel.



Tightening torques

- ◆ ⇒ ["2.3.1 Exploded view - window guides", page 104](#)

2.8 Removing and installing outer window slot trim strip



Note

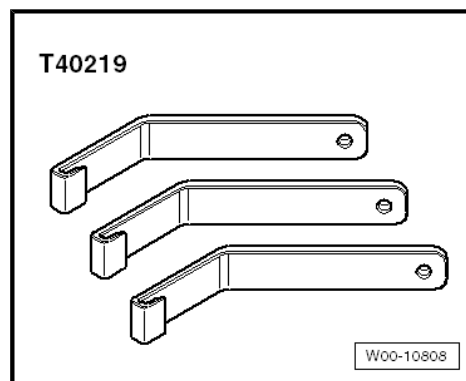
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The procedure described relates to the outer window slot trim strip. this document. Copyright by AUDI AG.

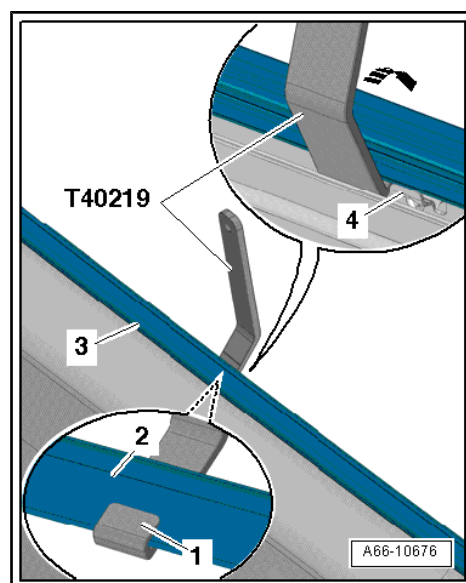
Special tools and workshop equipment required



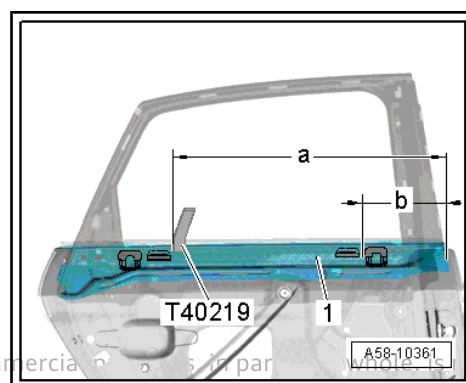
◆ Removal tool - T40219- (3x)

**Removing**

- Lower door window.
- Remove door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim (rear); Removing and installing door trim (rear) .
- Remove trim panel for C-pillar ⇒ [page 249](#) .
- Remove inner window slot trim strip ⇒ [page 105](#) .
- Insert removal tool - T40219- in door at C-pillar.
- Move removal tool - T40219- sideways so it is next to retaining hook -4- for window slot trim strip -3- and apply at retaining strip -2-.
- Front section -1- of removal tool -T40219- must be positioned as shown in illustration.
- Press removal tool - T40219- lightly in direction of -arrow- to release component.
- You should hear the retaining strip disengage.
- Carefully pull window slot trim strip upwards off door flange using removal tool - T40219- .
- Detach window slot trim strip.

**Dimensions for retaining hooks**

- Removal tool - T40219- must be positioned as close to retaining hooks as possible.
- To do so, insert removal tool - T40219- in door at C-pillar and move sideways to reach dimensions -a- and -b-.
- ◆ Dimension -a- = 580 mm
- ◆ Dimension -b- = 180 mm
- The dimensions are measured from the B-pillar on the window slot trim strip.



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Installing

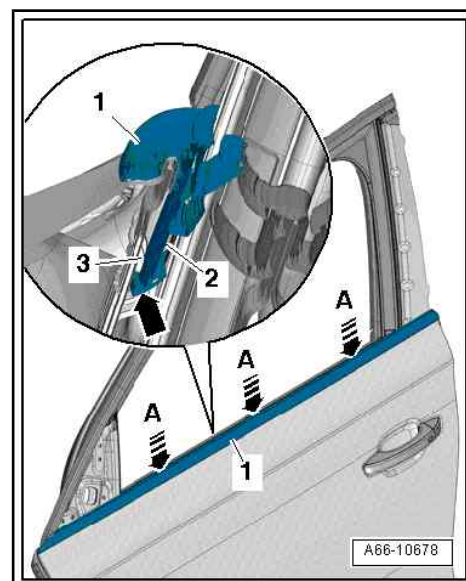
Installation is carried out in reverse order; note the following:



Note

For installing, you can coat the bottom edge of the window slot trim strip with tyre assembly paste.

- Position window slot trim strip -1- at trim panel for B-pillar on door seam and press on evenly -arrows A-; retaining strip -2- should engage audibly.
- When fixing strip in position -arrow-, retaining strip should engage underneath retaining plate -3-.



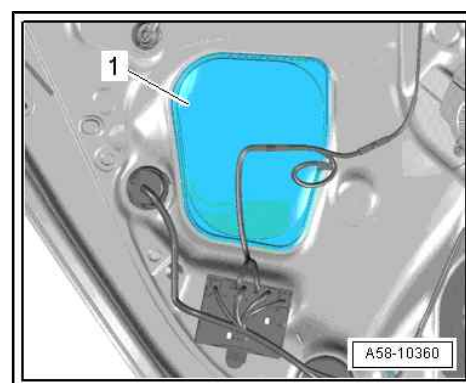
2.9 Removing and installing inner door cover

Removing

- Remove door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim (rear); Removing and installing door trim (rear) .
- Pull electrical wiring out of retaining clips.
- Unclip inner door cover -1- all around and pull it off inner door panel.

Installing

- Installation is carried out in reverse order; note the following:
- Press on cover for inner door panel completely.
- Cover for inner door panel must be flush.



2.10 Removing and installing striker

Removing

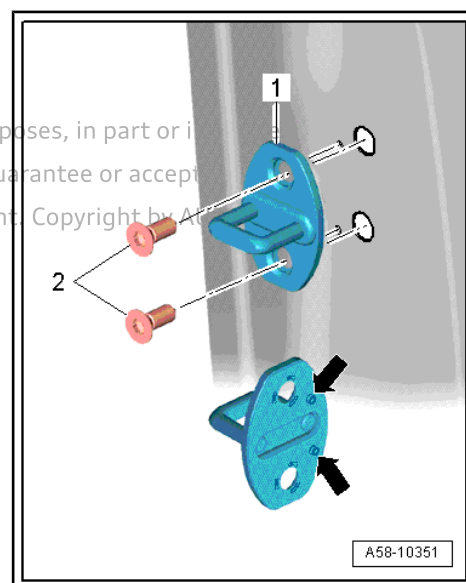
- Unscrew bolts -2- and detach striker -1-.

Installing

- Installation is carried out in reverse order; note the following:
- ⇒ ["1.6 Adjusting striker" page 99](#)

Tightening torques

- ◆ ⇒ ["2.4.2 Exploded view - door lock, operating cable and striker", page 107](#)





2.11 Removing and installing mounting bracket



Caution

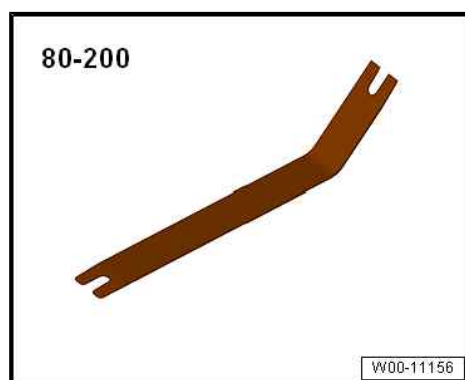
Risk of malfunction

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

The operating cable must be engaged in/disengaged from the mounting bracket outside the door.

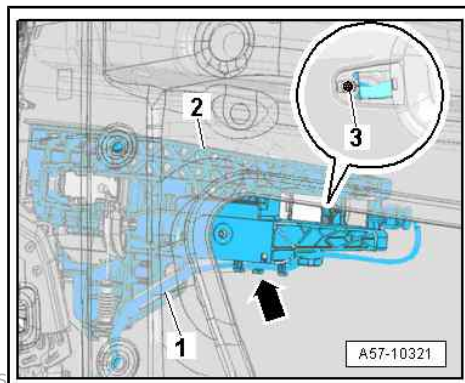
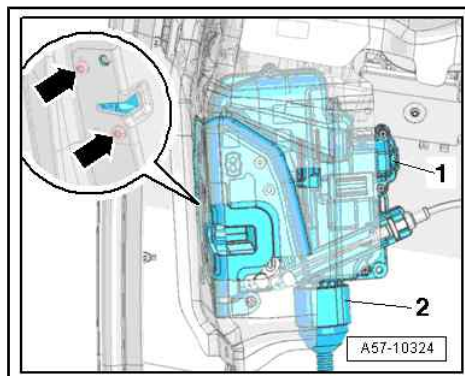
Special tools and workshop equipment required

- ◆ Removal lever - 80 - 200-



Removing

- Remove inner door cover ⇒ [page 111](#) .
- Unplug electrical connector -2-.
- Remove bolts -arrows- from door lock.
- Remove exterior door handle ⇒ [page 81](#) .
- Unscrew bolt -3- and detach mounting bracket -2-.
- Slide mounting bracket and door lock downwards and take both components out of door.
- Disengage operating cable from operating lever at door lock.



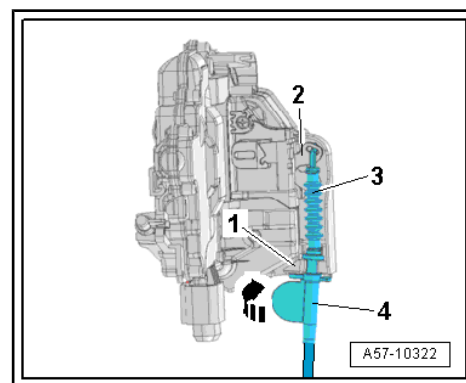
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Installing

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

- Mounting bracket and door lock are still removed.
- 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 support bracket.
- Install exterior door handle with mounting bracket
⇒ [page 115](#).



2.12 Removing and installing door handle

⇒ [“2.12.1 Removing and installing housing”, page 113](#)

⇒ [“2.12.2 Removing and installing cap for housing”, page 113](#)

⇒ [“2.12.3 Removing and installing door handle”, page 114](#)

⇒ [“2.12.4 Removing and installing trim for exterior door handle”, page 115](#)

2.12.1 Removing and installing housing

Removing

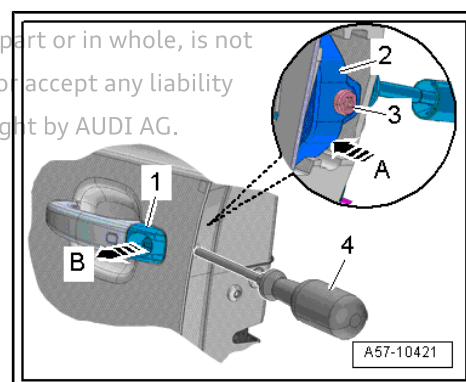
- Remove sealing plug.
- Unscrew clamping bolt -3- as far as possible using a screwdriver -4-.
- Push retainer -2- for housing inwards.
- Pull housing -1- out of mounting bracket -arrow B-.

Installing

Installation is carried out in reverse sequence.

Tightening torques

- ◆ ⇒ [“2.4.1 Exploded view - door handle, mounting bracket”, page 106](#)



2.12.2 Removing and installing cap for housing

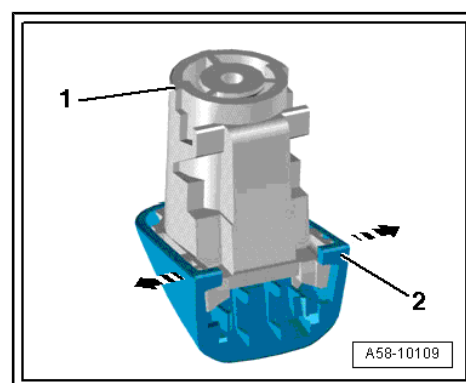
Removing

- Remove housing ⇒ [page 113](#).
- Pull retaining clips apart -arrows- and detach cap -2- from housing -1-, using an awl if necessary.

Installing

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

- Press on housing cap until it engages audibly.

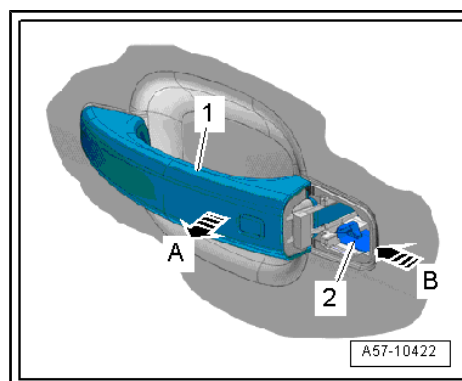




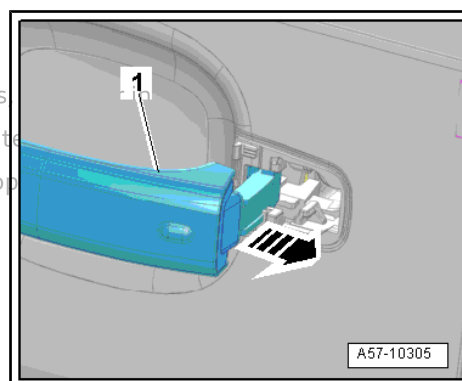
2.12.3 Removing and installing door handle

Removing

- Remove housing ⇒ [page 113](#) .
- Pull exterior door handle -1- outwards -arrow A- and hold in "open" position.
- Press retaining clip -2- for lock cylinder/housing inwards -arrow B-. Door handle is locked in "open" position.



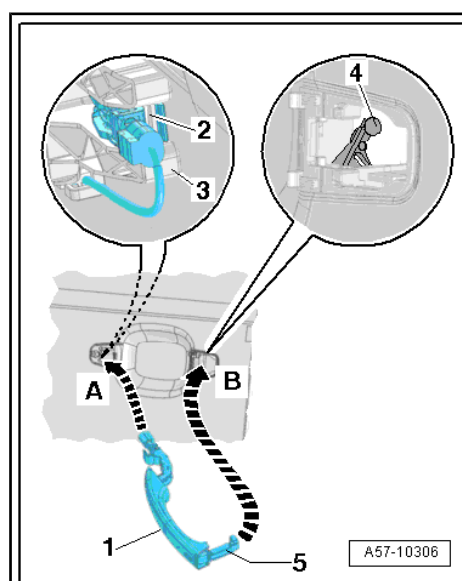
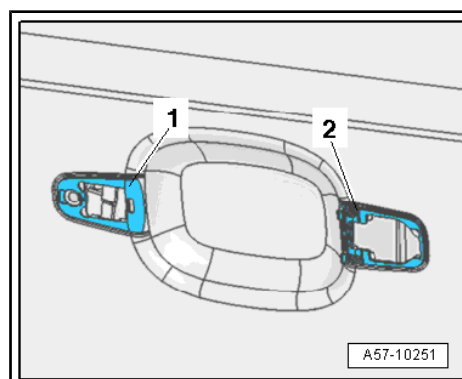
- Pull exterior door handle -1- in direction of -arrow-; exterior door handle will be detached from operating lever in mounting bracket.
- Swivel exterior door handle outwards and take out of mounting on mounting bracket.

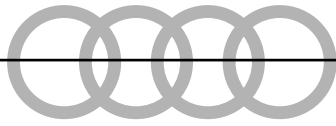


Installing

Installation is carried out in 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.





2.12.4 Removing and installing trim for exterior door handle

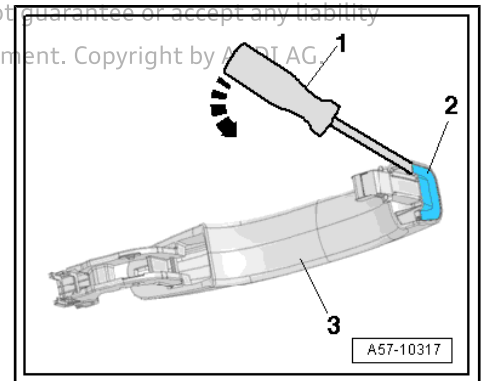
Removing

- ⇒ ["2.12.3 Removing and installing door handle", page 114](#)
- 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 reverse order; note the following:

- Push in trim for exterior door handle until it engages audibly.



2.13 Removing and installing door lock

⇒ ["2.13.1 Removing and installing door lock", page 115](#)

⇒ ["2.13.2 Removing and installing operating cable for door lock", page 116](#)

⇒ ["2.13.3 Removing and installing operating cable for door opener", page 117](#)

2.13.1 Removing and installing door lock



Caution

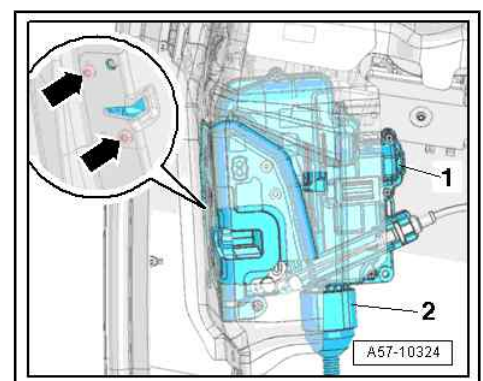
Risk of malfunction

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 mounting bracket outside the door.

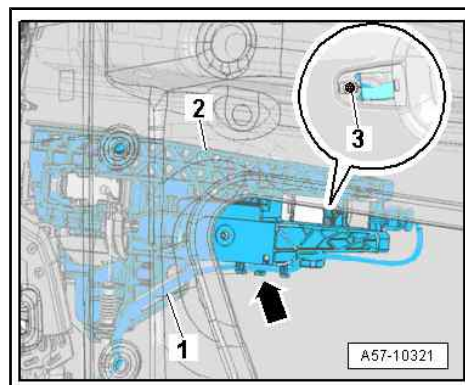
Removing

- Remove inner door cover ⇒ [page 111](#) .
- Unplug electrical connector -2- at door lock -1-.
- Remove bolts -arrows- from door lock.





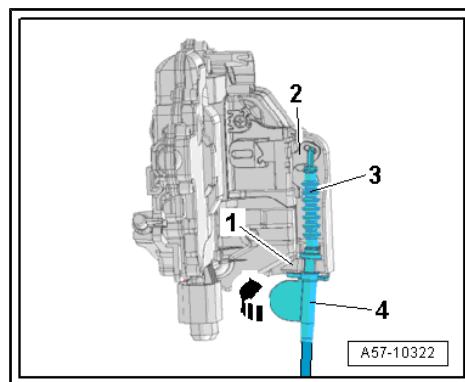
- Remove exterior door handle ⇒ [page 114](#) .
- Unscrew bolt -3- and detach mounting bracket -2-.
- Slide mounting bracket and door lock downwards and take both components out of door.
- Disengage operating cable from operating lever at door lock.



Installing

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

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



Tightening torques

- ⇒ ["2.4.2 Exploded view - door lock, operating cable and striker", page 107](#)

2.13.2 Removing and installing operating cable for door lock



Caution

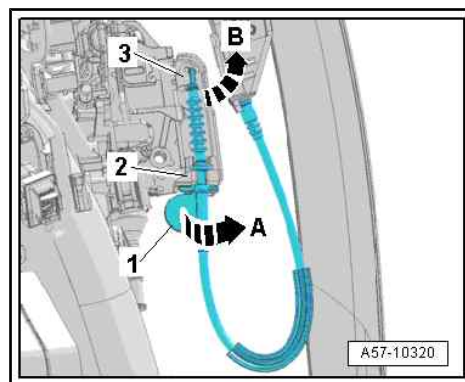
Risk of malfunction

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 mounting bracket outside the door.

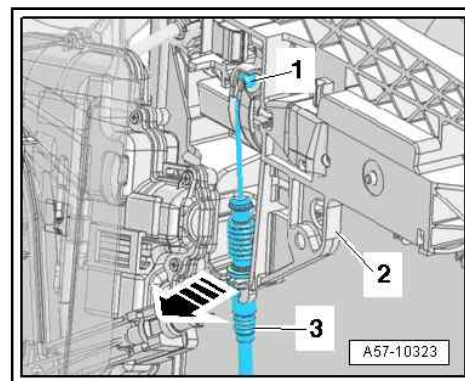
Removing

- Remove mounting bracket and door lock ⇒ [page 115](#) .
- Turn operating cable on lever -1- 90° in direction of -arrow A- and take it out of 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.





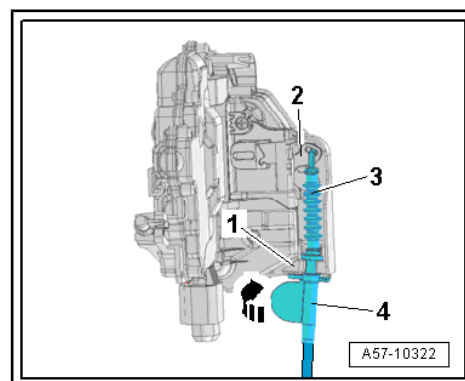
- Disengage operating cable -1- from operating lever by pressing support bracket -3- out of mounting on mounting bracket -2- -arrow-.
- Take out operating shaft.



Installing

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

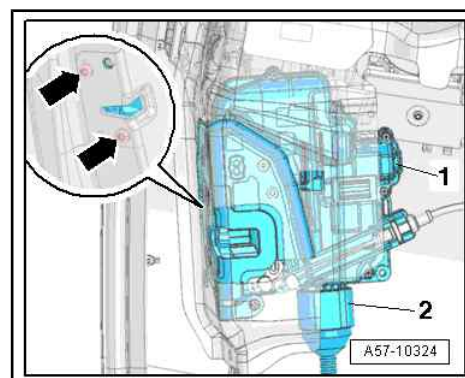
- Engage operating cable -3- in operating lever -2- for door lock.
- Insert operating cable into support bracket -1- and turn lever -4- 90° -arrow-.
- Lug on lever must engage audibly in support bracket.



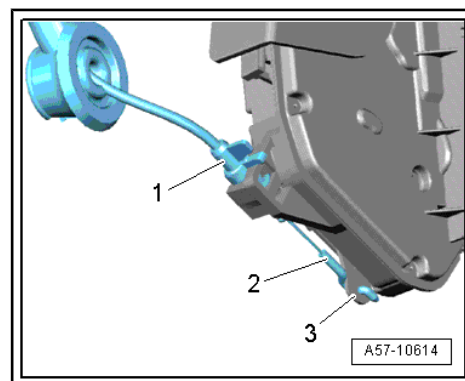
2.13.3 Removing and installing operating cable for door opener

Removing

- => ["2.9 Removing and installing inner door cover", page 111](#)
- Remove bolts -arrows-.
- Press door lock -1- to the side. If fitted, unplug electrical connector -2-.



- Release operating cable with clip -1- from door lock by turning 90° at support bracket; then slide out to the side.
- Disengage nipple -2- from release lever -3- at door lock.



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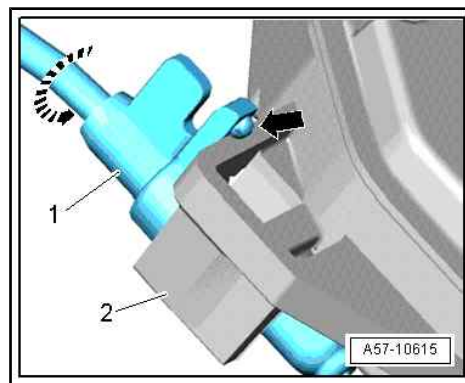
Installing

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

- Insert nipple -2- in release lever -3- at door lock.
- Insert clip -1- into support bracket -2- and turn by 90°; this will lock the operating cable -arrow-.

Tightening torques

- ◆ ⇒ ["2.4.2 Exploded view - door lock, operating cable and striker", page 107](#)



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60 – Sunroof

1 Sliding sunroof

⇒ [“1.1 Exploded view - sliding panoramic sunroof”, page 119](#)

⇒ [“1.2 Exploded view - wind deflector”, page 121](#)

⇒ [“1.3 Exploded view - sunroof sun blind”, page 122](#)

⇒ [“1.4 Removing and installing wind deflector”, page 124](#)

⇒ [“1.5 Removing and installing glass panel”, page 126](#)

⇒ [“1.6 Removing and installing sunroof seals”, page 129](#)

⇒ [“1.7 Removing and installing sunroof sun blind”, page 132](#)

⇒ [“1.8 Removing and installing sliding sunroof motor”,
page 142](#)

⇒ [“1.9 Removing and installing front trim panel for sliding sunroof”,
page 143](#)

⇒ [“1.10 Removing and installing sunroof frame”, page 149](#)

⇒ [“1.11 Removing and installing slotted guide”, page 152](#)

1.1 Exploded view - sliding panoramic sunroof

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**1 - Sliding/tilting sunroof frame**

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

2 - Seal

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

3 - Front trim panel

- ☐ Removing and installing
⇒ [page 143](#)

4 - Cover**5 - Bolt**

- ☐ 2 Nm

6 - Bolt

- ☐ 3 Nm

7 - Motor (sliding sunroof adjustment control unit - J245-)**WARNING**

When the motor (sliding sunroof adjustment control unit - J245-) has been renewed it has to be encoded via the Guided Functions mode in the Guided Fault Finding routine ⇒ Vehicle diagnostic tester.

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

8 - Water drain hose

- ☐ Removing and installing
⇒ [page 154](#)

9 - Bolt

- ☐ 3.5 Nm

10 - Frame for slotted guide

- ☐ With slotted guides and cables
- ☐ Removing and installing ⇒ [page 152](#)

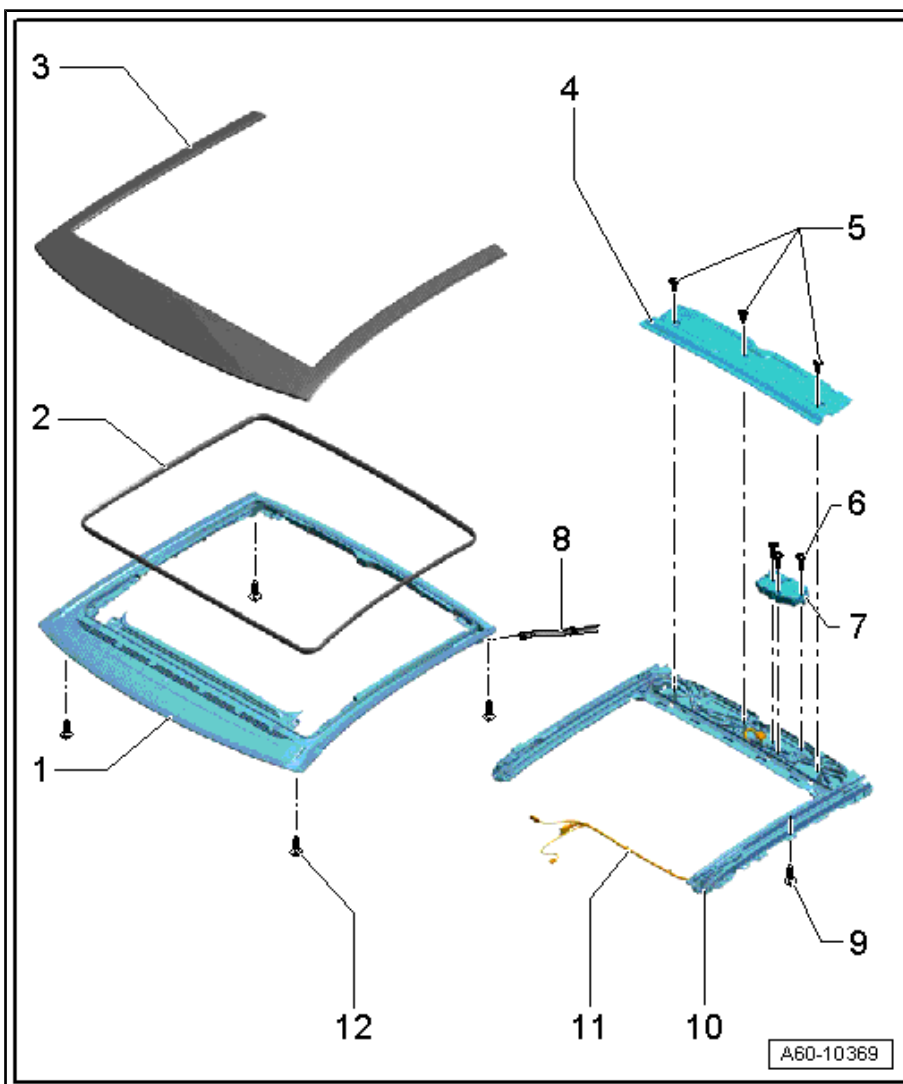
11 - Wiring harness**12 - Bolt**

- ☐ 3.5 Nm

- Observe tightening sequence.

- First tighten front bolts on right side, then on left side.

- First tighten rear bolts on right side, then on left side.



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1.2 Exploded view - wind deflector

1 - Wind deflector

- ❑ Removing and installing
⇒ [page 124](#)

2 - Spring

- ❑ When installing spring,
slide it towards rear into
retainer

3 - Bolt

- ❑ 1.5 Nm

4 - Bolt

- ❑ 5.5 Nm

5 - Glass panel

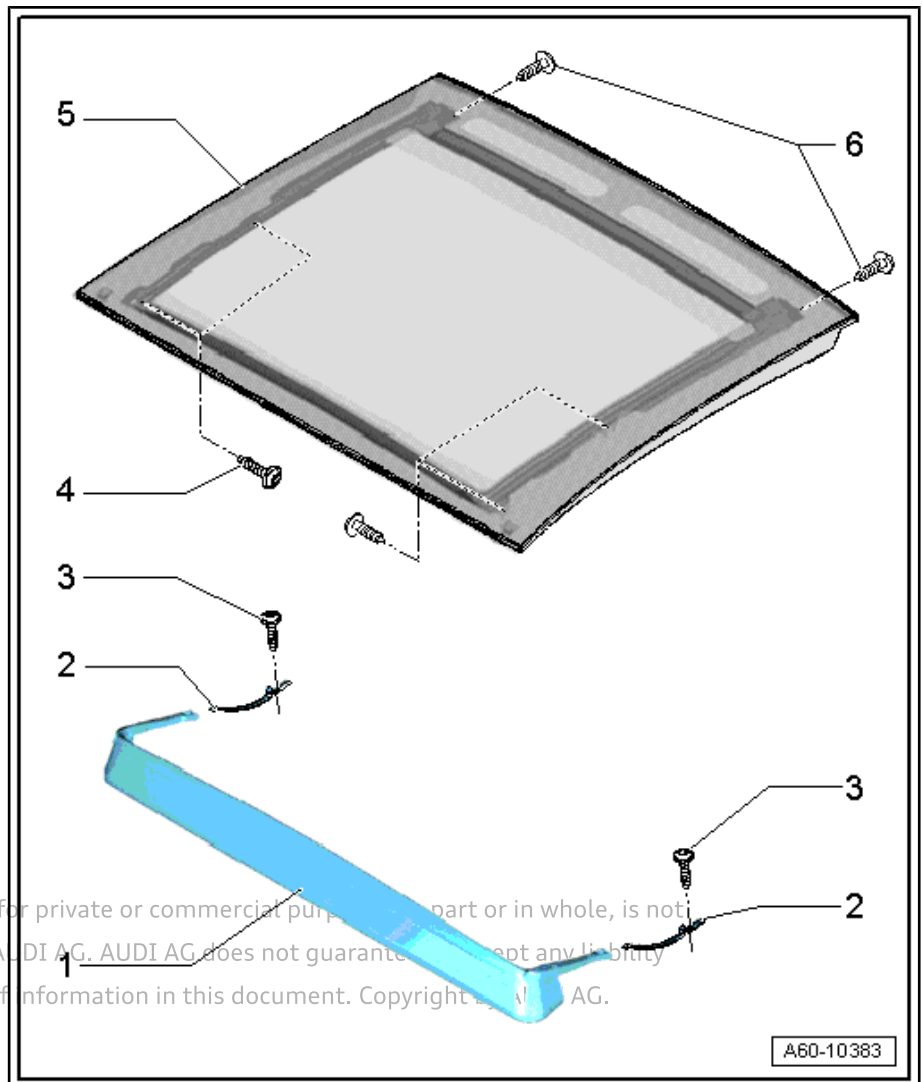
- ❑ Removing and installing
⇒ [page 126](#)

6 - Bolt

- ❑ 5.5 Nm



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A60-10383



1.3 Exploded view - sunroof sun blind

Sunroof sun blind up to 03.14

1 - Tension bow

- ❑ Removing and installing
⇒ [page 134](#)

2 - Grip

3 - Bolt

- ❑ 1 Nm

4 - Sunroof sun blind

- ❑ Removing and installing
⇒ [page 132](#)

5 - Bolt

- ❑ 2 Nm

6 - Centring mechanism

- ❑ Not available as replacement part

7 - Guide

- ❑ Not available as replacement part

8 - Slide

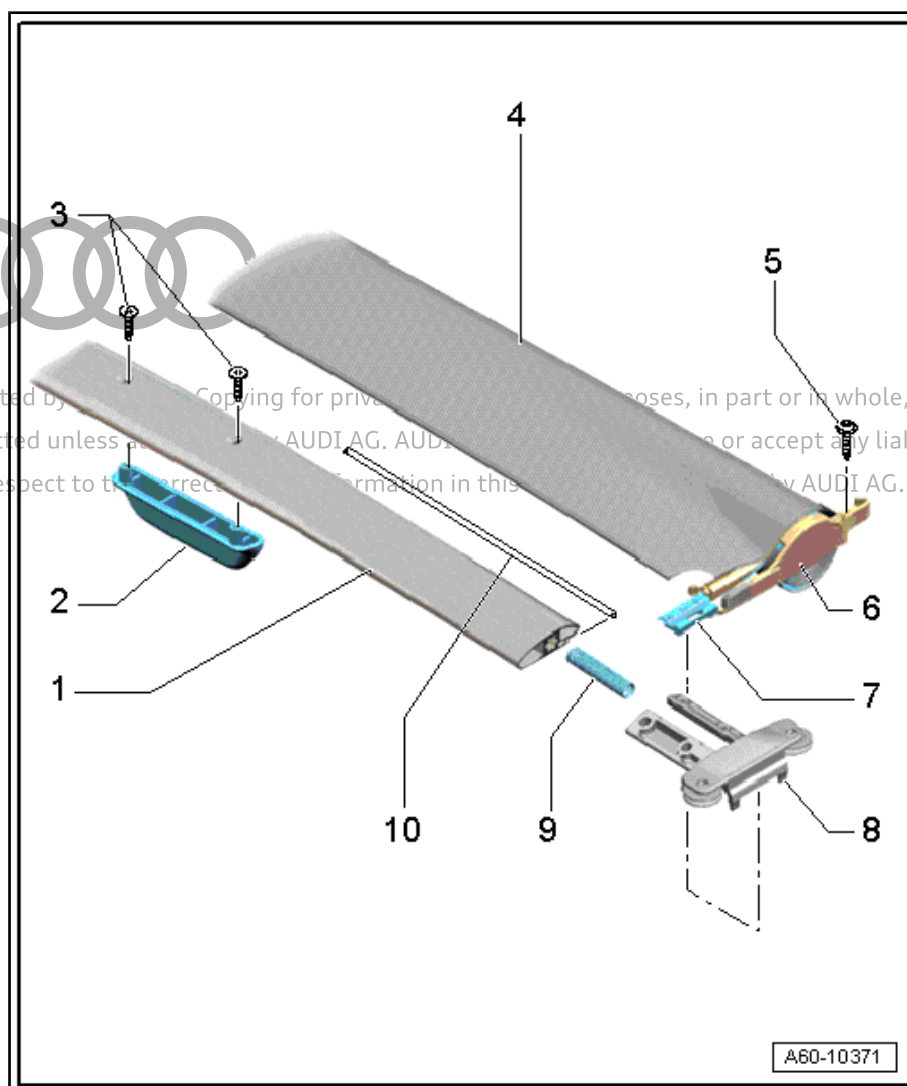
- ❑ Not available as replacement part

9 - Spring

- ❑ Not available as replacement part

10 - Piping

- ❑ Not available as replacement part
- Insert into tension bow from side ⇒ [page 134](#)



Sunroof sun blind from 03.14 onwards



1 - Slide (top section)

2 - Spring

- ☐ Only fitted on right side

3 - Tensioning strap

- ☐ Not available as replacement part

4 - Sunroof sun blind

- ☐ Removing and installing
⇒ [page 132](#)

5 - Centring mechanism

- ☐ Not available as replacement part

6 - Stop

- ☐ Insert into centring mechanism from top

7 - Bolt

- ☐ 2 Nm

8 - Shaft

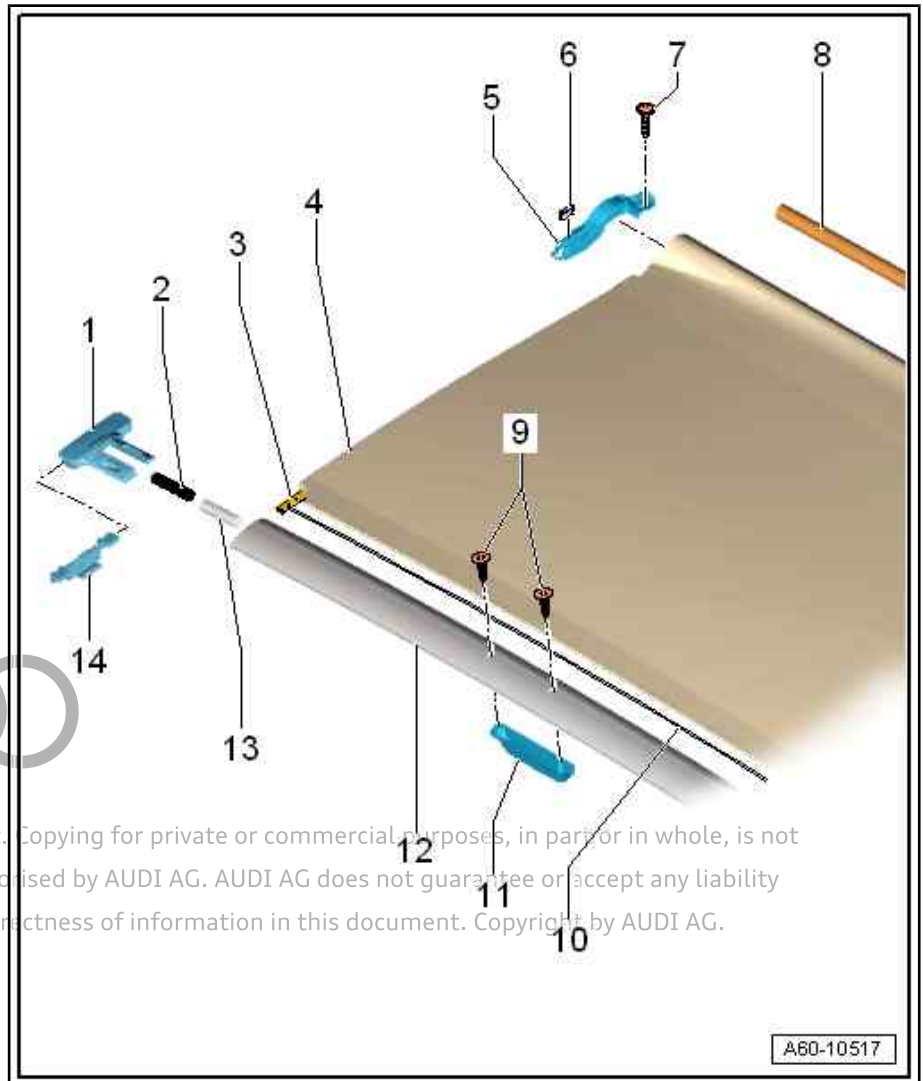
- ☐ Not available as replacement part

9 - Bolt

- ☐ 1 Nm

10 - Moulding

- ☐ Not available as a separate replacement part
- First insert from side into loop in sun blind fabric, then slide both components into tension bow
⇒ [page 141](#)



11 - Grip

12 - Tension bow

- ☐ Can be removed without removing sunroof sun blind
- ☐ Removing and installing ⇒ [page 134](#)

13 - Sleeve

- ☐ Only fitted on right side

14 - Slide (bottom section)

- ☐ Welded to tensioning strap



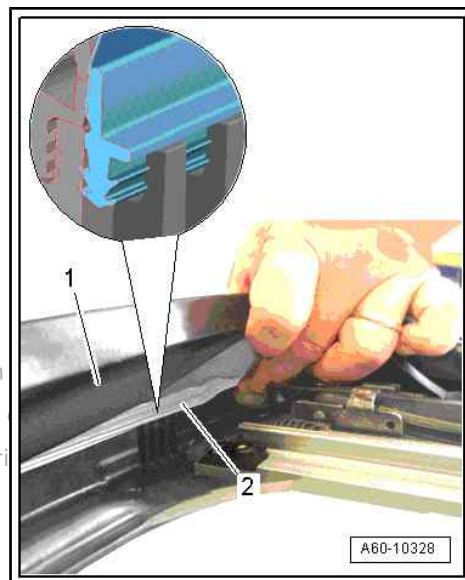
1.4 Removing and installing wind deflector

Removing

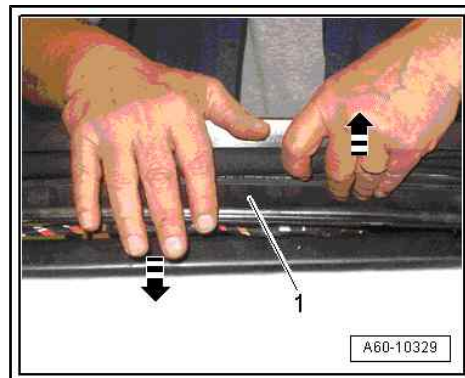
- Open sliding sunroof fully.
- Press wind deflector -1- down and pull moulding -2- out of surround frame at edges.



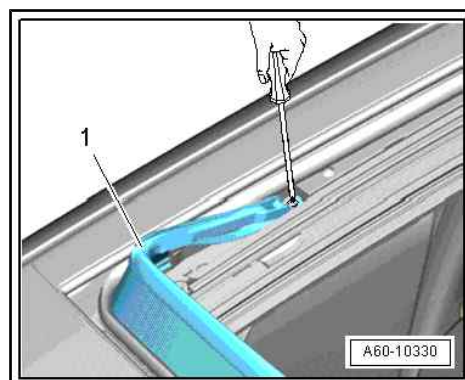
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- Keep pressing wind deflector down and pull moulding -1- out of surround frame and upwards off retaining tabs.

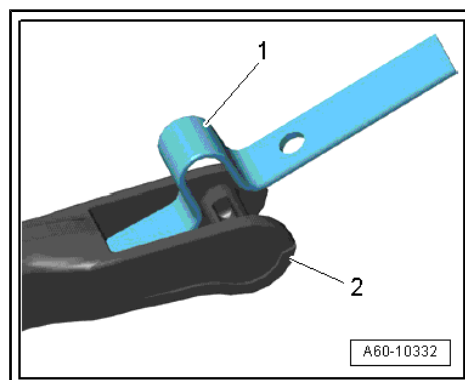


- Remove bolts (left and right) from bearing.
- Pull wind deflector forwards out of mounting and lift off.



Installing

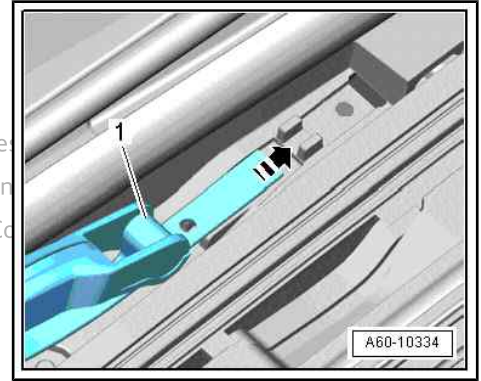
- Insert spring -1- in wind deflector.



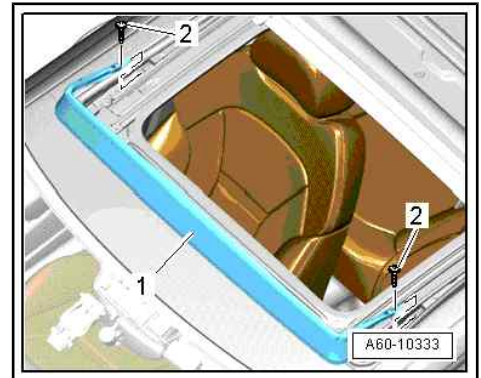


- Slide wind deflector with spring -1- towards rear into mounting.

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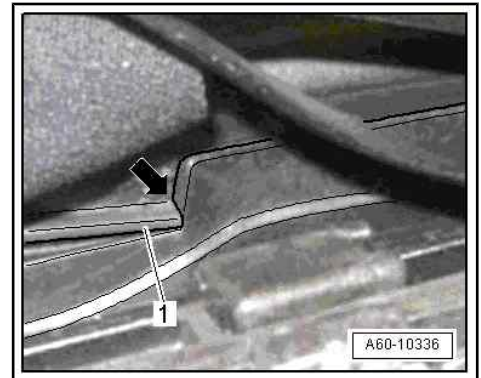
- Screw in bolts -2- and tighten to specified torque.



- Align moulding -1- centrally or so that it makes contact with stop -arrow-.

i Note

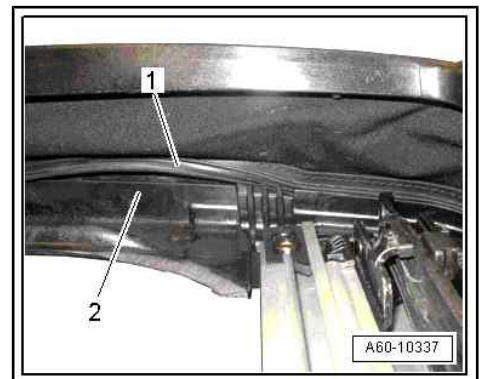
The moulding must make contact with the stop; otherwise it will be distorted when it is pressed into the surround frame.



- Carefully press moulding -1- into surround frame -2-.

i Note

Press the complete moulding evenly into the surround frame (moulding must not be wavy).



- Press moulding -1- into retaining tabs -arrows- of surround frame -2- using an assembly wedge.

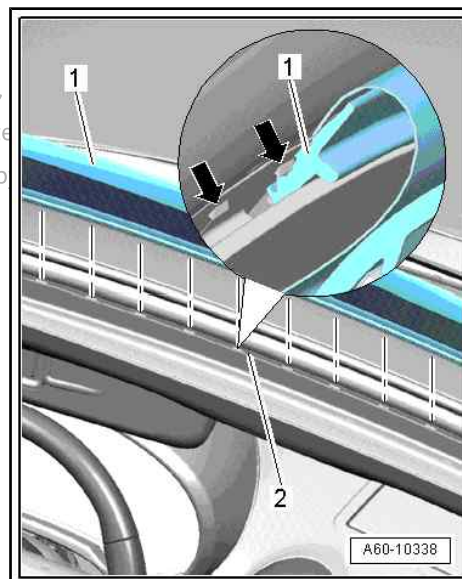


Caution

Do not use a screwdriver to press in the moulding; otherwise the mesh could be damaged.

Tightening torques

- ◆ ⇒ ["1.2 Exploded view - wind deflector", page 121](#)



1.5 Removing and installing glass panel

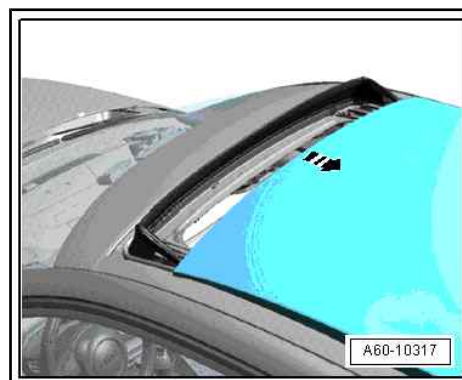
⇒ ["1.5.1 Removing and installing glass panel", page 126](#)

⇒ ["1.5.2 Adjusting glass panel", page 128](#)

1.5.1 Removing and installing glass panel

Removing

- Slide open panel approx. 150 mm to the rear.

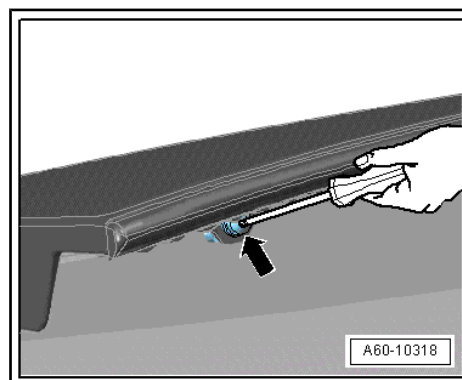


- Remove bolts from bottom of panel -arrow- on both sides.



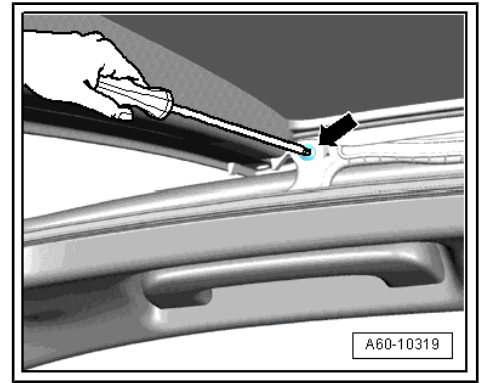
Caution

Seal opening between A-pillar and sunroof frame with cloth, paper or similar to prevent any bolts from falling into vehicle.

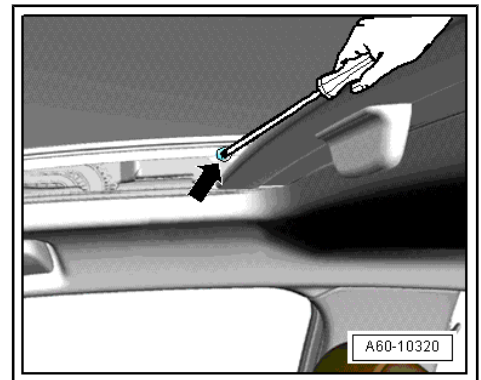




- Unscrew bolts (front) -arrow- from panel on both sides.



- Loosen bolts -arrow- in centre of panel, but do not remove.



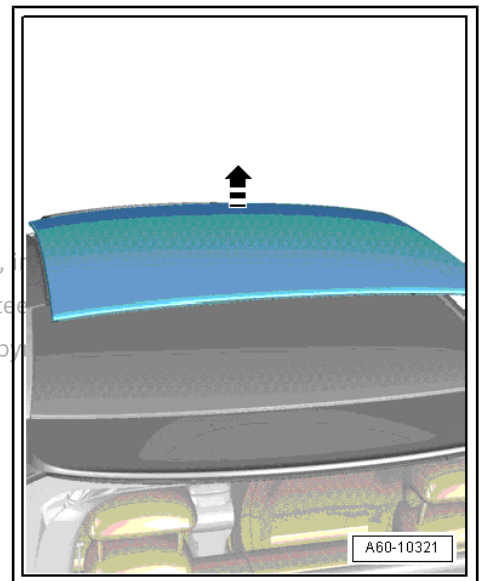
- Lift panel out of slotted guides with the help of a second person.



Note

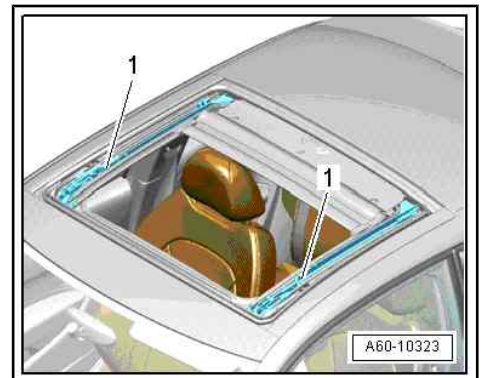
To avoid damage to the guide rails, always run them to the »roof closed« position after removing the panel.

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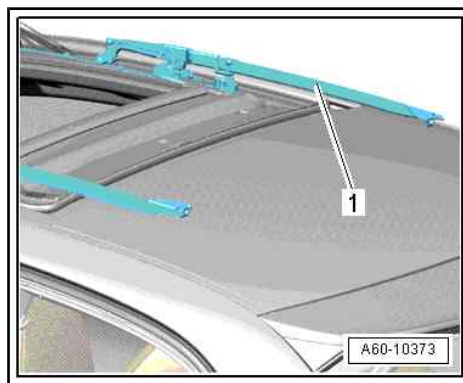
Move guide rails -1- to »roof closed« position.

Installing





- Slide slotted guides approx. 150 mm to the rear.
- Lift panel onto slotted guides with the help of a second person.



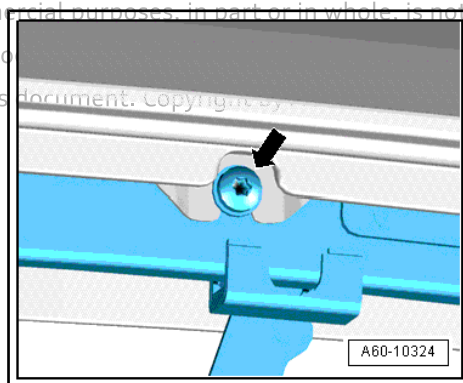
- Position panel frame so that recesses -arrow- are in line with the loosened bolts.



Note

Observe tightening sequence.

- First tighten bolts at rear, then at front and finally in centre.
- Close panel and check alignment with roof.
- If necessary, open and adjust panel ⇒ [page 128](#).
- Tighten bolts to specified torque.



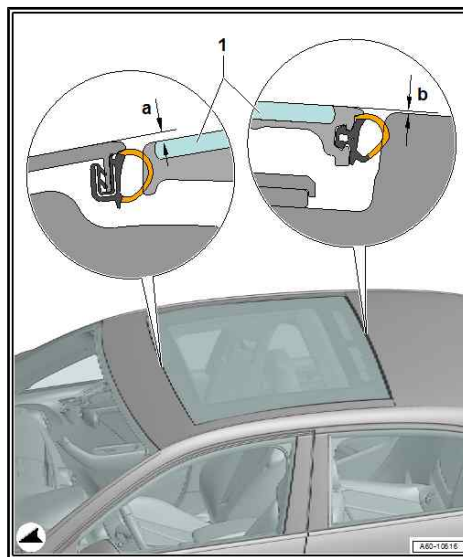
Tightening torques

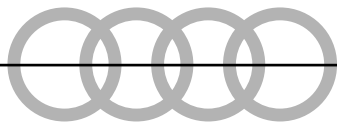
- ♦ ⇒ ["1.2 Exploded view - wind deflector", page 121](#)

1.5.2 Adjusting glass panel

Adjustment dimensions

- Dimension »a« = 2 mm
- Dimension »b« = 1 mm



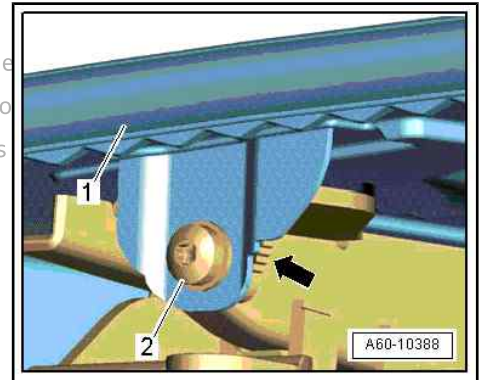


Note

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Adjust height of glass panel only via rear edge.

- Tilt glass panel -1- and unscrew bolts -2- at rear edge.
- Also loosen bolts in centre of glass panel.
- Adjust height of panel via marking -arrow-.
- Tighten bolts at rear edge of panel to torque.
- Close panel and tighten centre bolts to torque.



Tightening torques

- ◆ ⇒ ["1.1 Exploded view - sliding panoramic sunroof", page 119](#)

1.6 Removing and installing sunroof seals

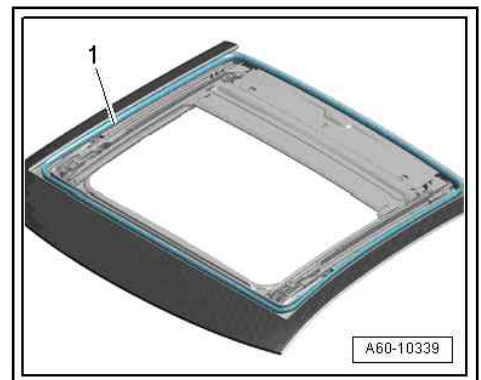
⇒ ["1.6.1 Removing and installing seal \(top\)", page 129](#)

⇒ ["1.6.2 Removing and installing panel seal", page 130](#)

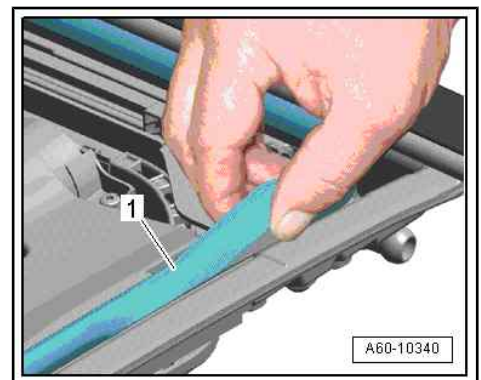
1.6.1 Removing and installing seal (top)

Removing

- Glass panel removed
- 1 - Seal (top)



- Pull seal upwards out of seal channel all around.

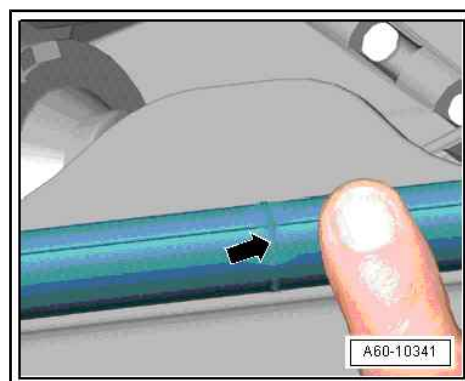
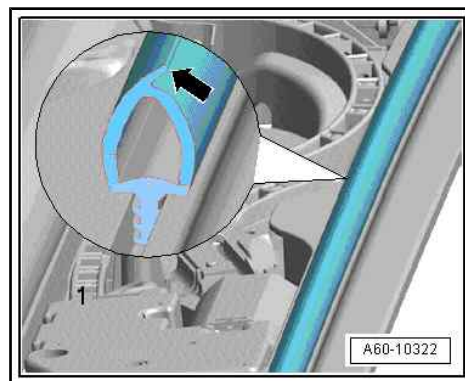




Installing

Position seal on channel with lip facing outwards.

- Align butt joint -arrow- of seal in centre of vehicle and press seal into channel.

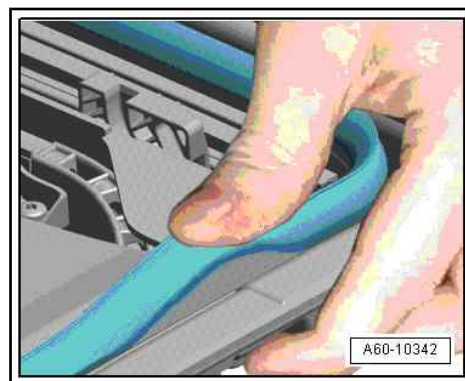


- Press seal into channel all around.



Caution

Do not stretch the seal as otherwise it will not be possible to press the complete seal into the seal channel.

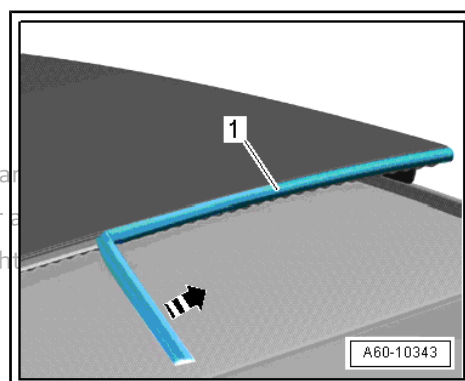


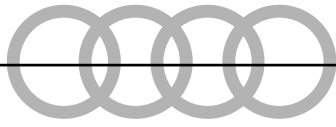
1.6.2 Removing and installing panel seal

Removing

- Open glass panel.
- Pull panel seal out of channel at rear.

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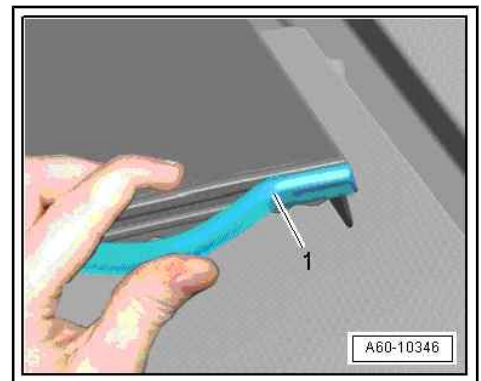
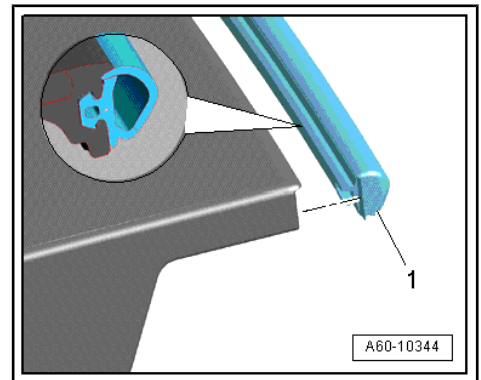
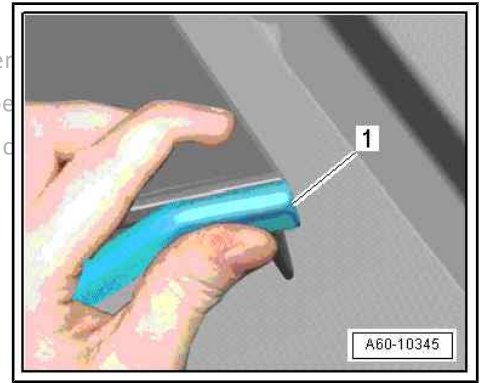
Installing



Note

Spray seal with soap solution or similar to make installation easier.

- Position seal -1- so it is flush with panel on both sides.
- Press seal into channel as shown in detail view.
- Press seal completely into channel, working inwards from both sides.





1.7 Removing and installing sunroof sun blind

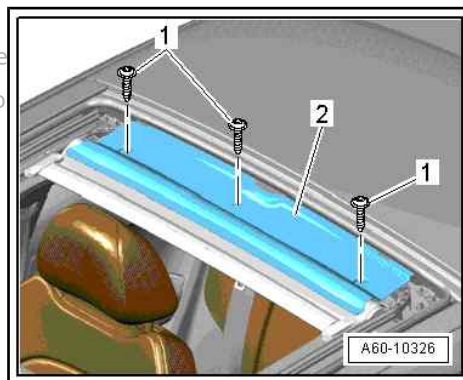
⇒ "1.7.1 Removing and installing sunroof sun blind - vehicles up to 03.14", page 132

⇒ "1.7.2 Removing and installing sunroof sun blind - vehicles from 03.14 onwards", page 136

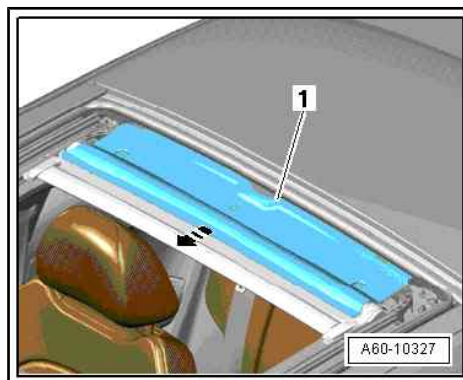
1.7.1 Removing and installing sunroof sun blind - vehicles up to 03.14

Removing

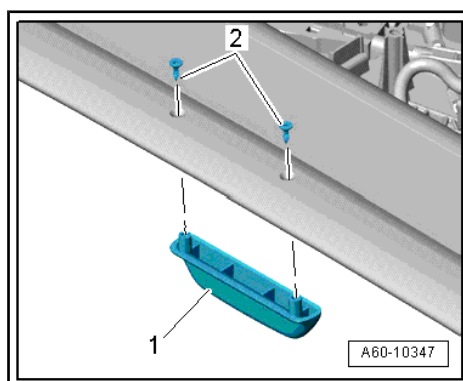
- Glass panel removed
- Remove bolts -1- from cover (rear) -2-.



- Pull cover (rear) -1- out in direction of -arrow-.

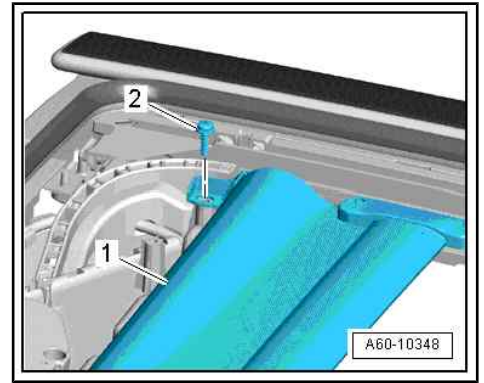


- Unscrew bolts -2- from tension bow and detach grip -1-.

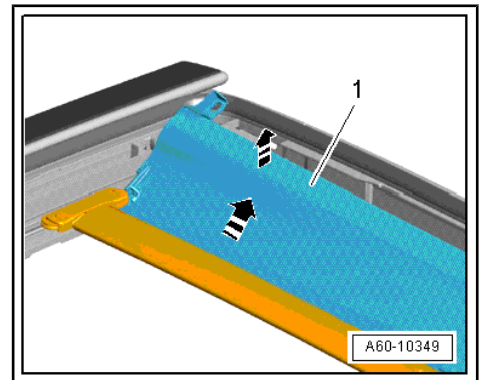




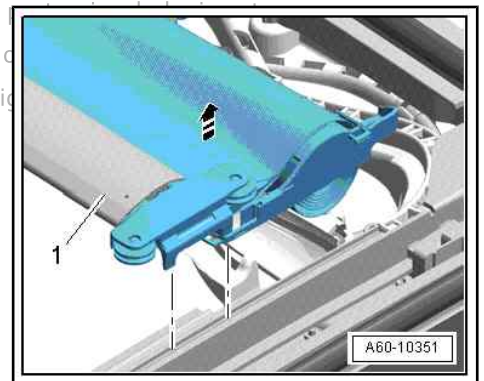
- Remove bolts -2- from rear of sunroof sun blind -1-.



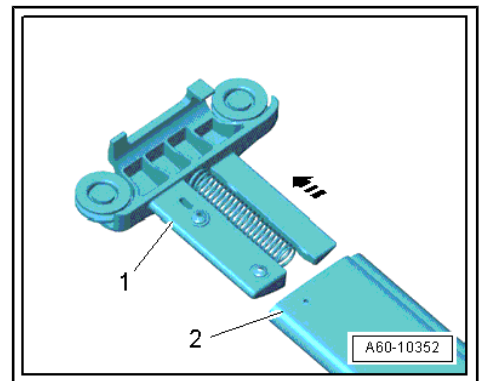
- Lift sunroof sun blind -1- diagonally up at rear (as shown) and slide tension bow with slides towards rear out of guides (in direction of -arrows-).



- Lift out sun blind with tension bow.
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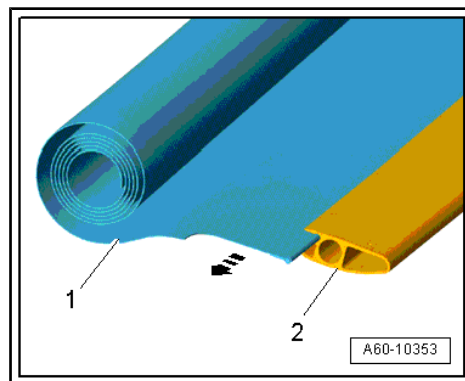


- Pull slides -1- (left and right) out of tension bow -2-.



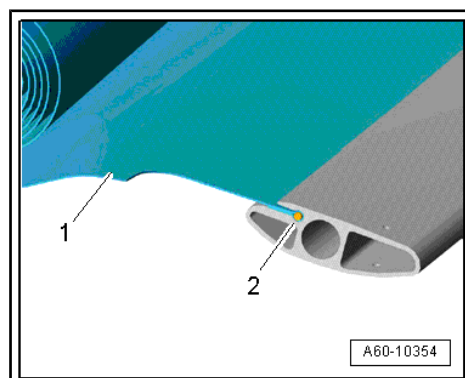


- Pull fabric of sunroof sun blind out of tension bow from the side.



Installing tension bow

- Installation is carried out in the reverse order; note the following:
- Carefully insert sun blind fabric -1- into moulding channel in tension bow -2-.

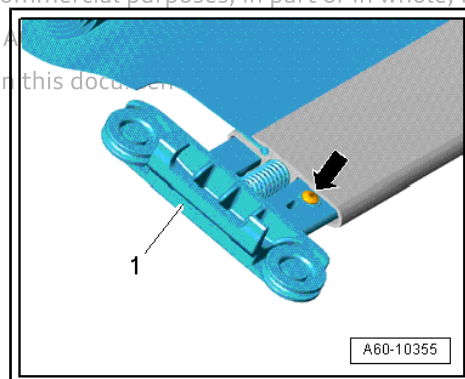


- Insert slides -1- into tension bow.



Caution

Take care not to shear off the rubber buffers -arrow- when inserting the slides.



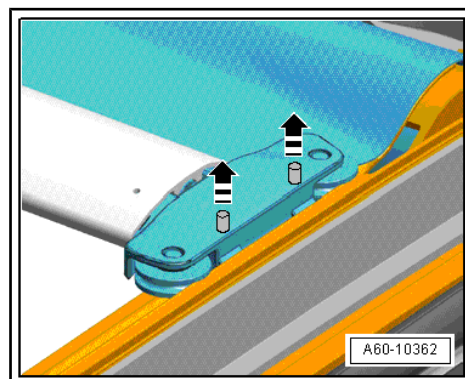
Installing sunroof sun blind

- Tension bow inserted in sunroof sun blind



Note

Before installing the slide in the guide rail, the guide pins must be pressed out slightly from the bottom in the direction of the -arrows-.



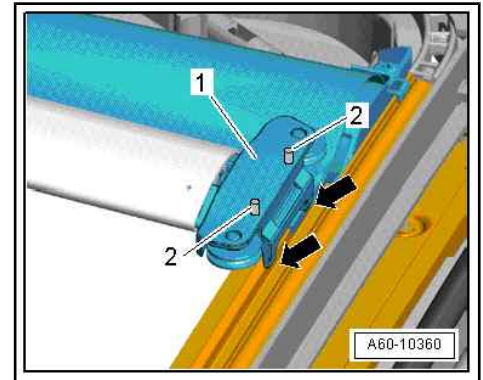


- Insert sunroof sun blind into slide in guide rail.

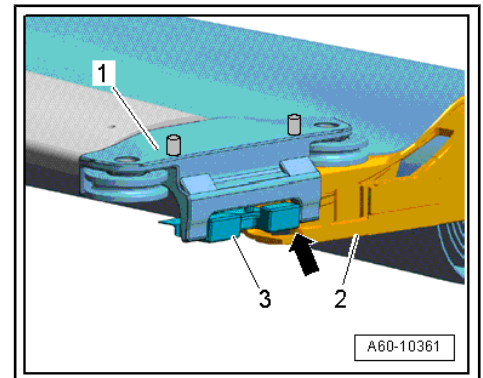


Caution

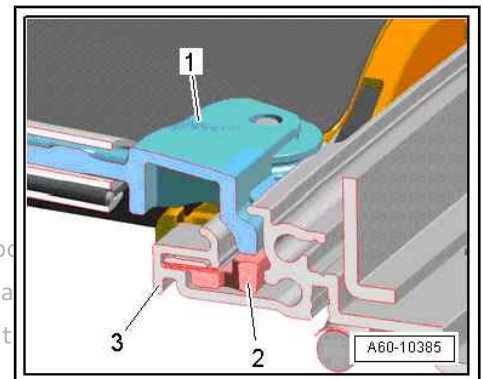
The slide and its rollers must run correctly in the guide.



- For greater clarity, the slide is shown without guide rail.

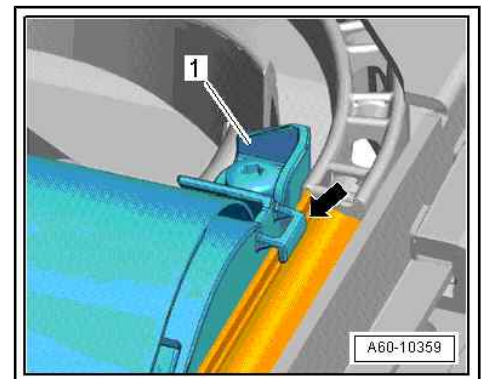


- Actuator -2- must be inserted into guide rail -3-, as shown.
- Slides -1- are slid onto guide -2- from above.
- When installed correctly, actuator -2- must engage in slide -1-.



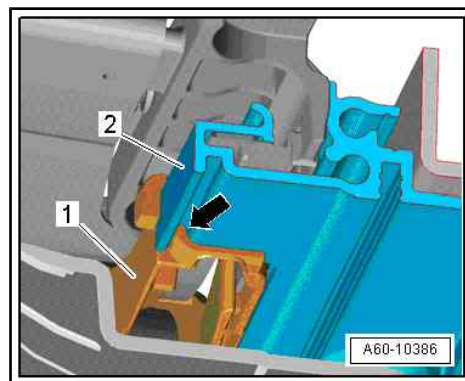
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- Centring mechanism of sunroof sun blind -1- must be slid into guide rail (top) -arrow-...

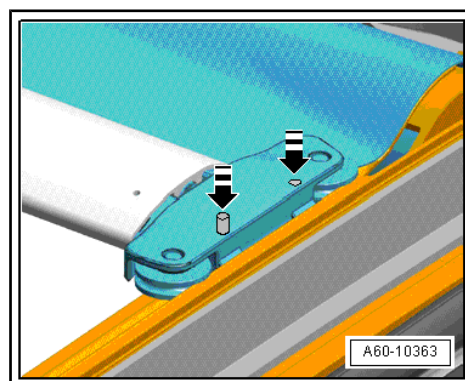




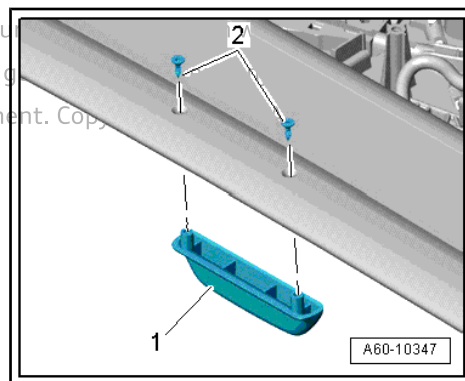
- ... and into guide rail (bottom) -2- on both sides, as shown.
- At the same time, guides of centring mechanism must be guided correctly into guide rail -arrow-.
- Tighten bolts to specified torque ⇒ [Item 5 \(page 122\)](#) .



- Press guide pins into slide so they are flush.



- Re-install grip on tension bow and check that sun blind can be opened and closed completely.
- Tighten bolts to specified torque ⇒ [Item 3 \(page 122\)](#) .



1.7.2 Removing and installing sunroof sun blind - vehicles from 03.14 onwards

Removing tension bow

- Open glass panel.
- Slide sun blind forwards, closing it about halfway.

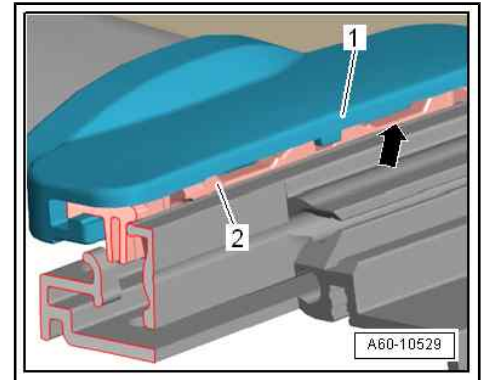


Caution

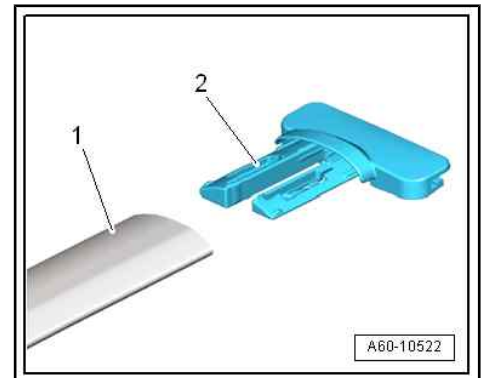
Do not lift top section of slide too far off bottom section as it could break.



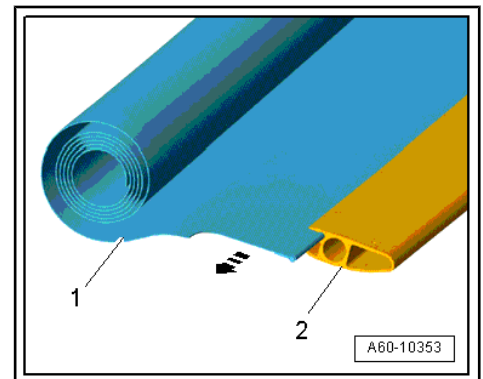
- Slide a plastic wedge into recess -arrow- and carefully lift slide (top section) out of fastener on slide (bottom section).
- Open both slides by moving top sections towards rear against bottom sections.
- Lift off tension bow.



- Pull top sections of both slides -2- to the side out of tension bow -1-.

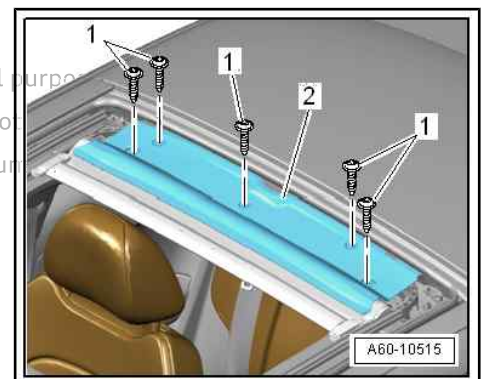


- Pull tension bow -2- to the side off sunroof sun blind -1-.



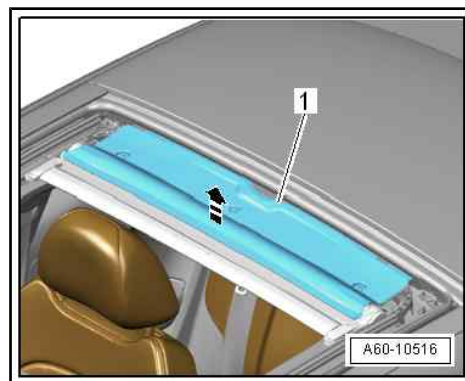
Removing sunroof sun blind

- Glass panel removed ⇒ [page 126](#)
- Remove bolts -1- from cover (rear) -2-.

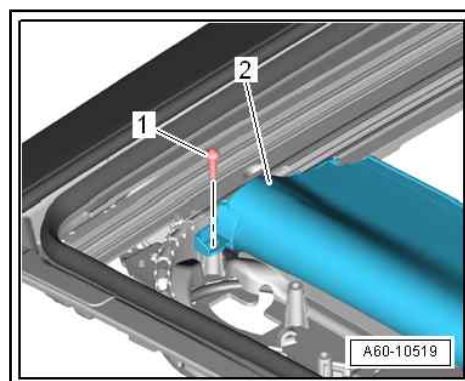




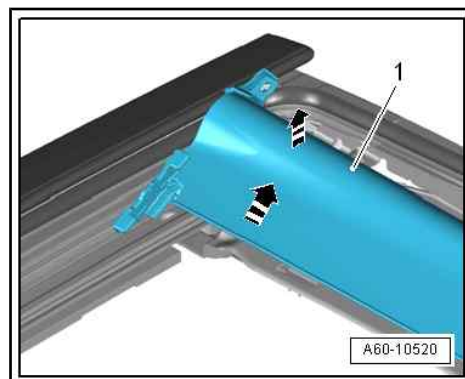
- Lift cover (rear) -1- off in direction of -arrow-.
- Move guide rails to "roof closed" position.



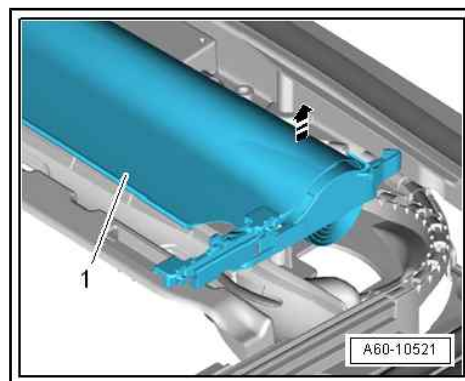
- Remove bolts -1- from rear of sunroof sun blind -2- on both sides.



- Lift sunroof sun blind -1- diagonally up at rear (as shown) and pull tension bow with slides towards rear out of guides (in direction of -arrows-).



- Lift out sunroof sun blind -1-.



Installing sunroof sun blind

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1 - Slide (bottom section)



Note

Slide (bottom section) is tensioning strap.

- ☐ Slide (bottom section) must be inserted into guide together with tensioning strap, as shown in detail view of illustration.

2 - Slide (top section)

- ☐ Insert into slide (bottom section) → [page 141](#)

3 - Tension bow

4 - Piping

5 - Tensioning strap

- ☐ Not available as replacement part

6 - Guide

7 - Shaft

- ☐ Not available as replacement part

8 - Bolt

- ☐ 2 Nm

9 - Centring mechanism

- ☐ Not available as replacement part
- ☐ Insert in guide
→ [page 140](#)

10 - Stop

- Insert into centring mechanism

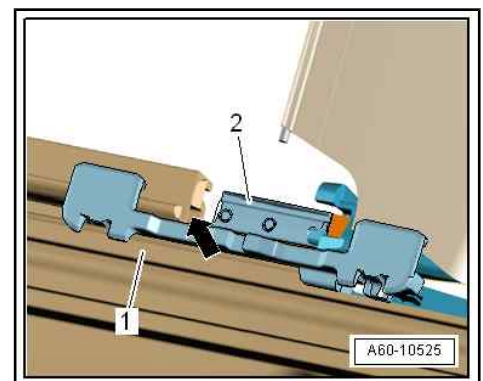
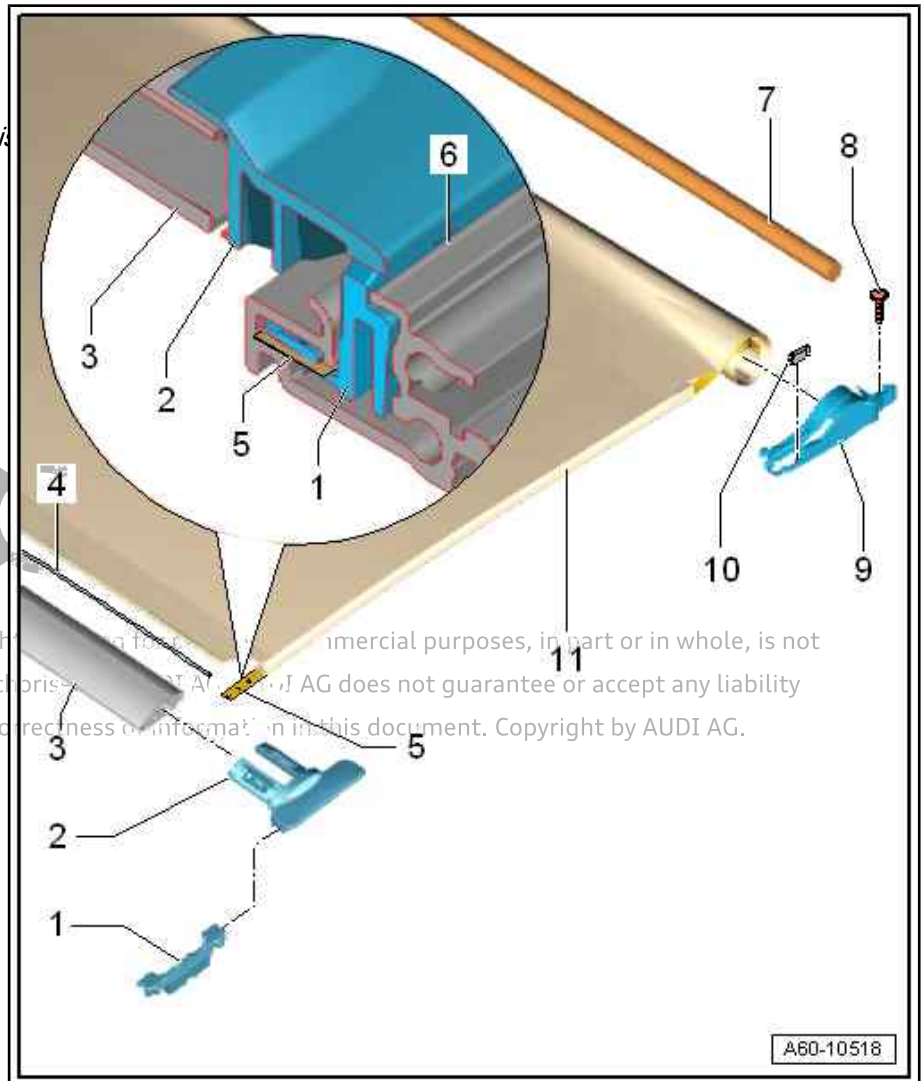
11 - Sunroof sun blind

- Insert slide (bottom section) in guide rail -arrow-



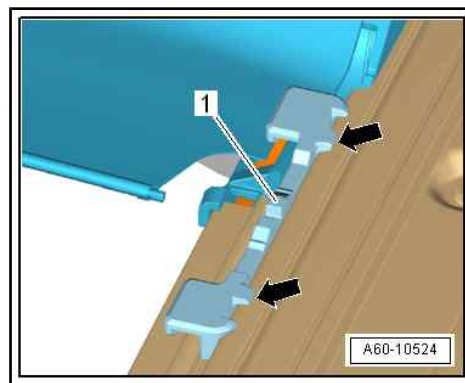
Caution

The slides must run exactly in the guides on both sides.

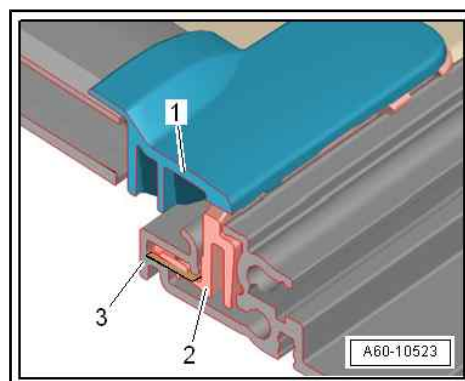




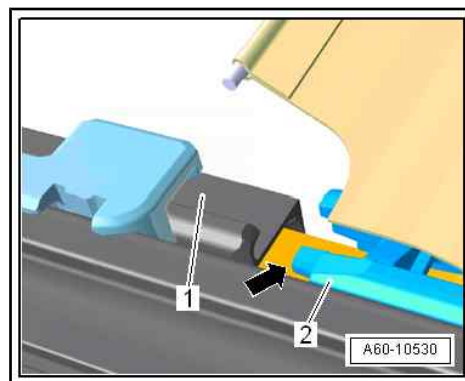
- Guide lugs -arrows- must rest on or run on guide, as shown.



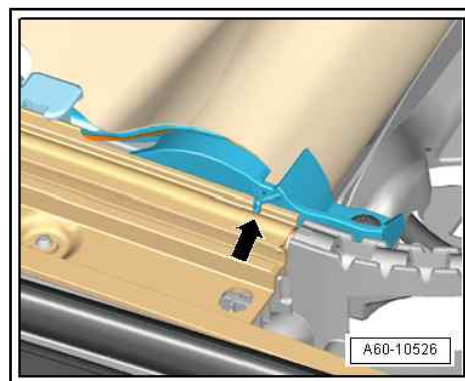
- Slide (bottom section) -2- must be inserted into guide rail -3-, as shown.
- Slide slide (top section) -1- with tensioning strap onto slide (bottom section) -2- from top.



- Slide guide lug -arrow- of centring mechanism -2- flush into guide -1- on sunroof frame.



- Centring mechanism on sunroof sun blind must be slotted into guide rail at top -arrow-...



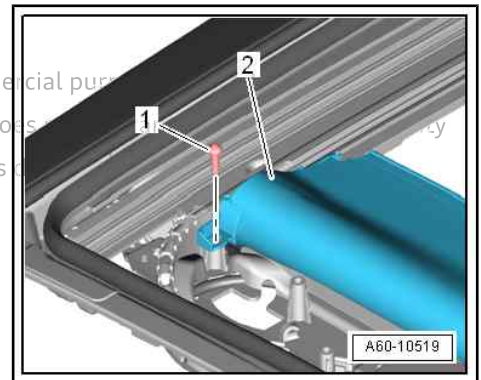
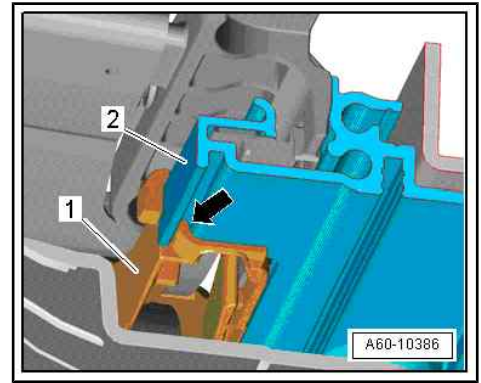


- ... and bottom -2- on both sides, as shown.
- To do so, guides of centring mechanism must be guided exactly into guide rail -arrow-.



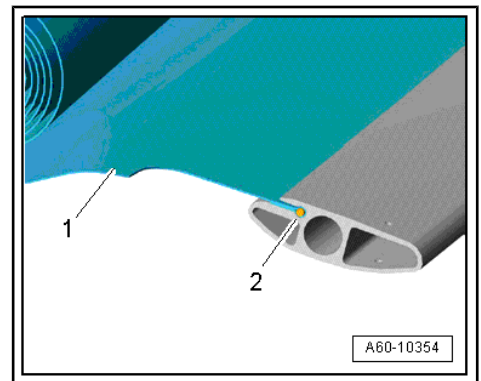
- Tighten bolt -1- to specified torque ⇒ [Item 7 \(page 123\)](#) .
- Install tension bow ⇒ [page 134](#) .

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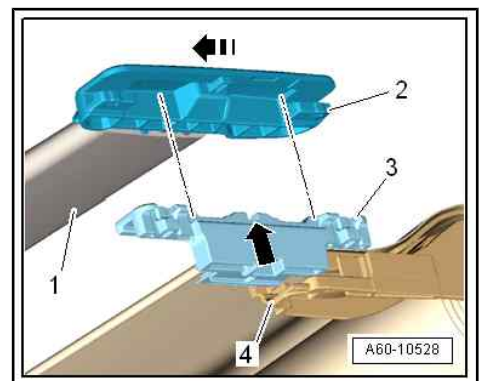


Installing tension bow

- Sunroof sun blind is installed ⇒ [page 138](#) .
- Carefully insert moulding -2- of sun blind fabric -1- inserted into loop into moulding channel in tension bow.



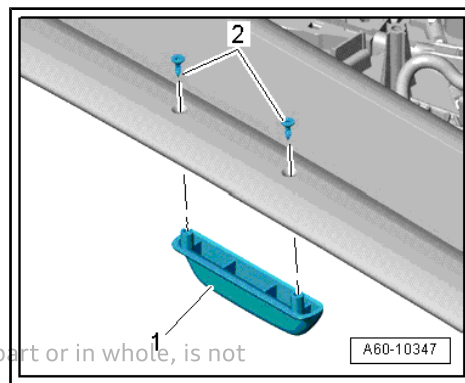
- Insert slides (top sections) -2- into tension bow -1- on both sides.
- Insert slide (top section) -3- from rear to front (direction of -arrow-) into slide (bottom section) as far as fastener -arrow-.





Removing and installing grip

- Open glass panel.
- Remove bolts -2- and detach grip -1-.
- Re-install grip on tension bow and check that sun blind can be opened and closed completely.
- Tighten bolts to specified torque ⇒ [Item 9 \(page 123\)](#) .



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1.8 Removing and installing sliding sunroof motor

⇒ ["1.8.1 Removing and installing sliding sunroof motor", page 142](#)

⇒ ["1.8.2 Adaption for sunroof motor", page 143](#)

1.8.1 Removing and installing sliding sunroof motor

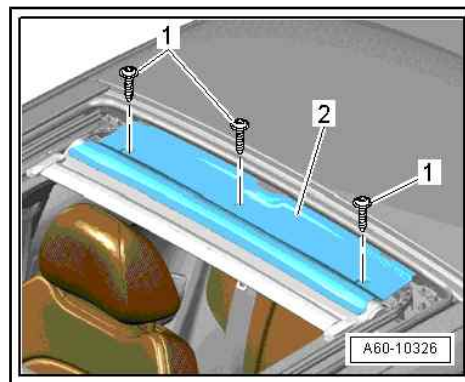


Note

If a defective motor is to be removed with the glass panel closed, the moulded headliner must be lowered around the bolts ⇒ [Item 6 \(page 121\)](#) at the rear edge of the panel (⇒ General body repairs, interior; Rep. gr. 70; Roof trim panels; Removing and installing moulded headliner) and the glass panel must be removed ⇒ [page 126](#) .

Removing

- Glass panel removed ⇒ [page 126](#)
- Unscrew bolts -1- and detach cover (rear) -2-.
- Unplug electrical connector for motor.





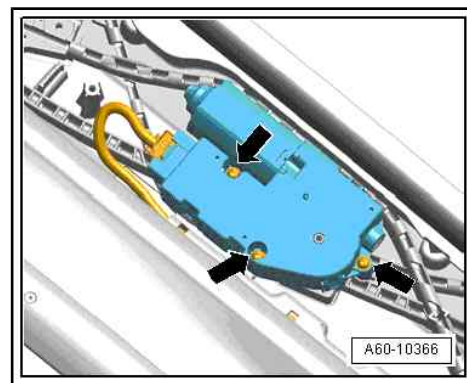
- Unscrew bolts from motor and pull off motor upwards.

Installing



WARNING

When the sliding sunroof adjustment control unit - J245- has been renewed it has to be encoded via the Guided Functions mode in the Guided Fault Finding routine → Vehicle diagnostic tester.



Note

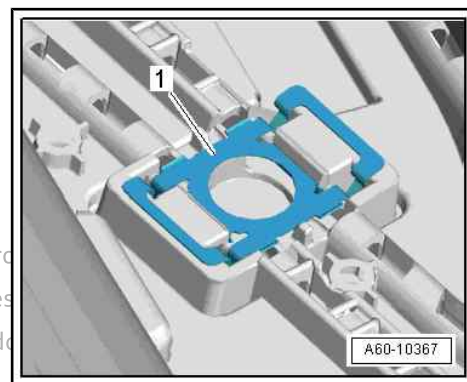
- ◆ *When removing the motor, the retaining clip -1- can become detached; it must then be re-installed in the correct position.*
- ◆ *After a motor has been removed and re-installed or renewed, the motor must be adapted so that the sliding panoramic sunroof can operate properly → [page 143](#).*

- Before installing motor, press retaining clip completely into frame, making sure it is positioned correctly.
- Insert motor and tighten bolts to specified torque.
- Encode sliding sunroof adjustment control unit - J245- .

Tightening torques

- ◆ ⇒ [“1.1 Exploded view - sliding panoramic sunroof”, page 119](#)

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1.8.2 Adaption for sunroof motor



Note

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



WARNING

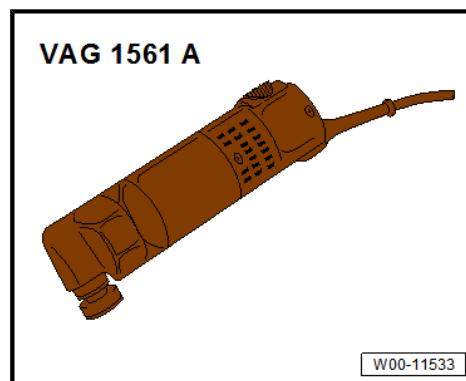
- *Panel must be installed when performing adaption - risk of damage.*
- *When the sliding sunroof adjustment control unit - J245- / sunroof roller blind control unit - J394- has been renewed, it has to be encoded and adapted via the Guided Functions mode in the Guided Fault Finding routine (diagnostic address 19) → Vehicle diagnostic tester.*

1.9 Removing and installing front trim panel for sliding sunroof

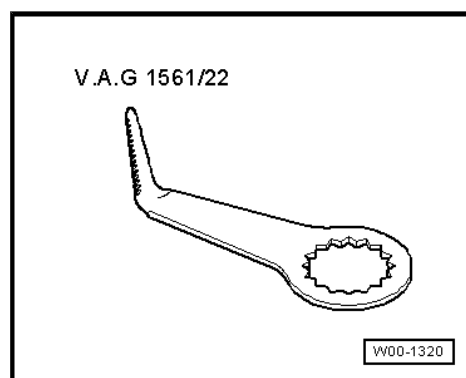
Special tools and workshop equipment required



- ◆ Electric cutter - V.A.G 1561A-

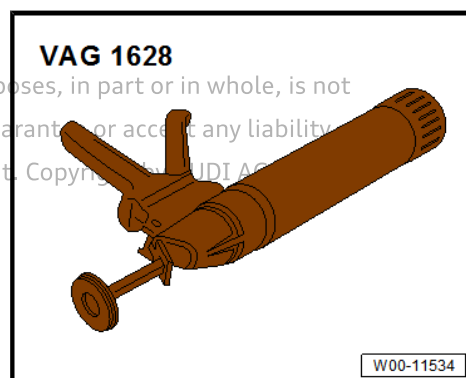


- ◆ Saw blade, Ø 80 mm - V.A.G 1561/26-
- ◆ Blade (L-shaped, 25.4 mm) - V.A.G 1561/22-



- ◆ Hand-cartridge gun - V.A.G 1628-

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Materials

- ◆ Cleaning solution - D 009 401 04-
- ◆ Glass/paint primer - D 009 200 02-
- ◆ Assembly adhesive - D 190 MKD A3-

Removing



Note

Components are damaged irreparably when removed.



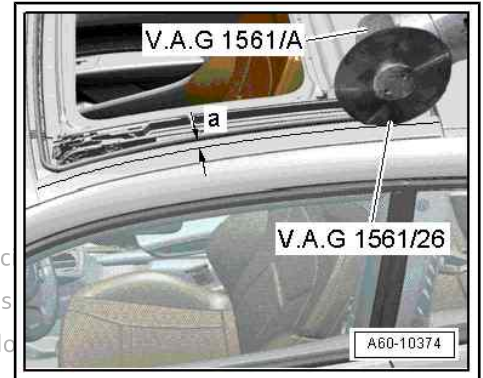
Caution

To avoid damage to the paintwork, mask the body surfaces around the sliding/tilting sunroof with adhesive tape.

- Make a mark over entire length of trim panel with distance -a- = 10 mm to inner edge.



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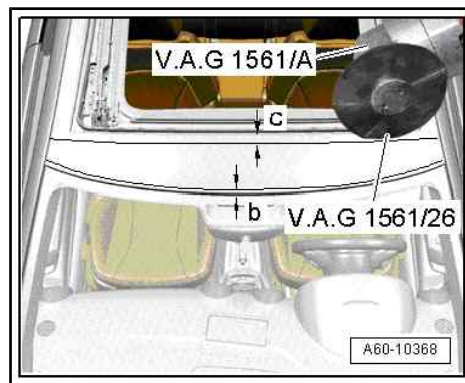


- Also make marks with distance -b- = 10 mm to front edge and with distance -c- = 10 mm to rear edge.

**Caution**

Because there is little space between the front trim panel and the frame, fit a depth stop and set it to 5 mm.

- Using electric cutter - V.A.G 1561A- and saw blade, Ø 80 mm - V.A.G 1561/26- , cut along marks from rear to front.
- Also cut off a transverse strip each at front and rear edges of trim panel along marks.
- After the edges of the trim panel have been removed, the adhesive beads for the trim panel are now accessible.
- Use electric cutter - V.A.G 1561A- and blade (L-shaped, 25.4 mm) - V.A.G 1561/22- to cut through adhesive bead from rear to front on both sides.
- Proceed in the same manner for the two adhesive beads at the front of the trim panel.
- Cut through adhesive bead at centre of trim panel using cutting wire and two pull handles and remove remaining pieces of trim panel.

**Installing****Caution**

- ◆ ***Keep bonding areas free of dirt and grease.***
- ◆ ***Do not cut back remaining adhesive bead on sliding/tilting sunroof frame until shortly before installation.***
- ◆ ***Do not apply primer to bonding surface and do not use cleaning solution.***

**Note**

- ◆ ***The sliding/tilting sunroof must be closed during installation.***
- ◆ ***The positions of the adhesive beads are stamped into the trim panel.***
- Do not cut back remaining adhesive bead on sliding/tilting sunroof frame until shortly before installation.

**Caution**

Roughen bonding surface slightly using fine abrasive paper (e.g. soft pad from paint shop).

- Clean area for adhesive bead with cleaning solution for D 009 401 04- .

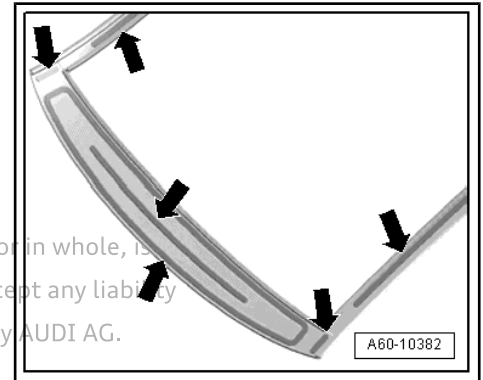
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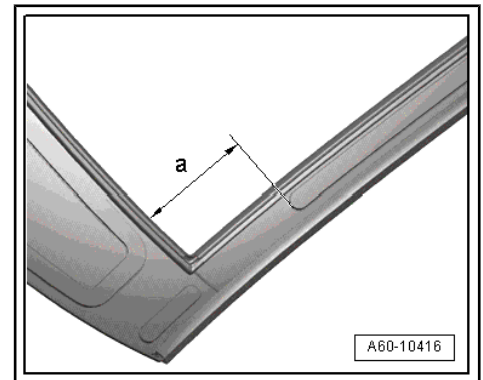
- Prime area for adhesive bead -arrows- with glass/paint primer - D 009 200 02- and allow to flash off.
- Apply assembly adhesive - D 190 MKD A3- -arrows- onto glass/paint primer.



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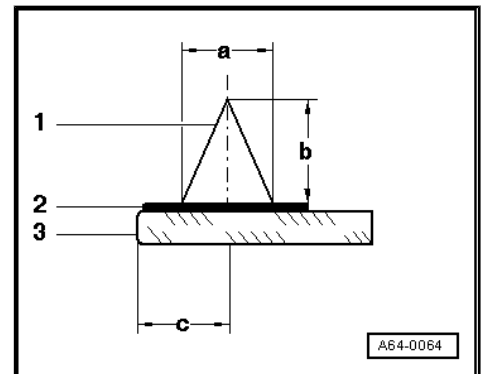


- In front section, do not apply adhesive within 10 cm (dimension -a-) of left and right side of trim panel.



Dimensions for applying adhesive:

- 1 - Adhesive bead
 - 2 - Glass/paint primer
 - 3 - Trim panel for sliding/tilting sunroof
- Dimension -a- = 8 mm
 - Dimension -b- = 12 mm
 - Dimension -c- = is set by stamped markings on trim panel.
- Insert trim panel in opening in roof, press it in so it is in line with sliding/tilting sunroof and fix in position with adhesive tape.



Installation position for front trim panel



1 - Front trim panel

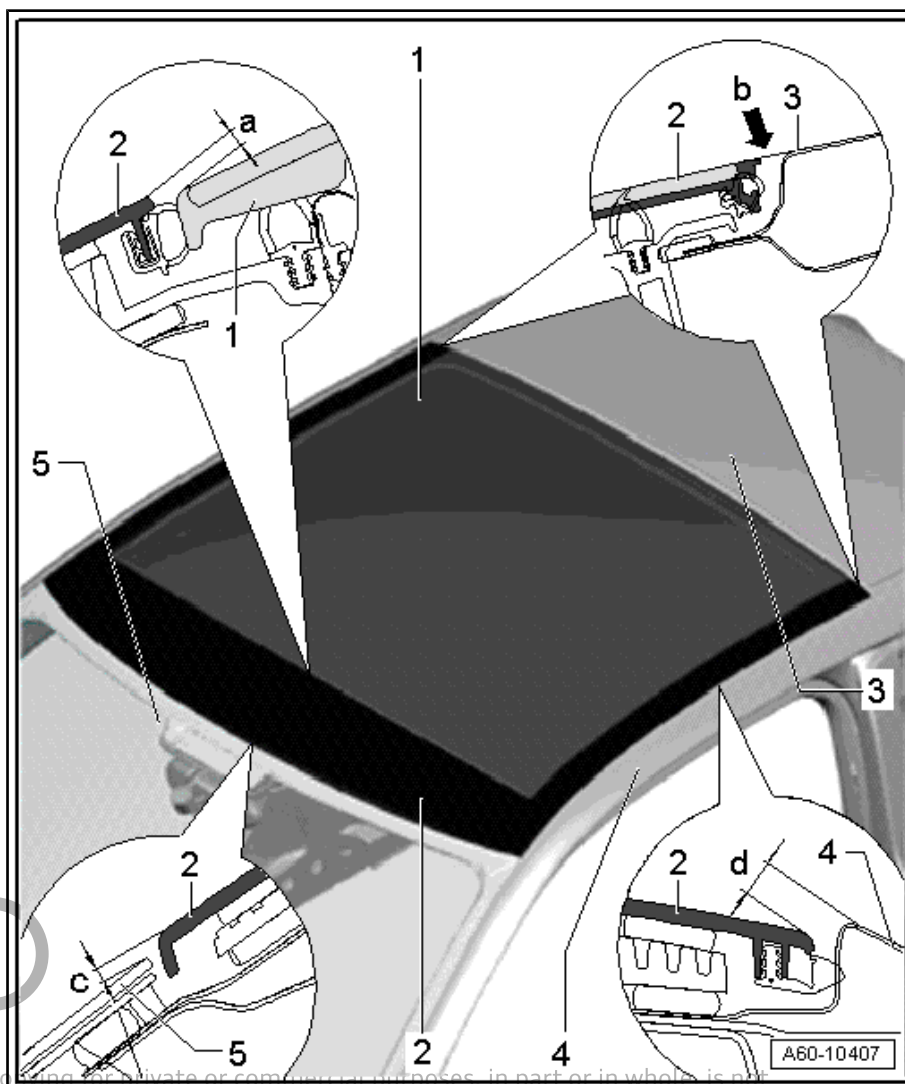
- ◆ Dimension a = 2 mm ± 1 mm
- ◆ Dimension b = 0 + 0.5 mm (rear of trim must be flush with roof)
- ◆ Dimension c = 1.5 mm ± 0.5 mm
- ◆ Dimension d = 3 mm ± 0.5 mm

- Press in front trim panel according to dimensions; front trim panel must be flush with edge of glass panel and parallel to glass panel surface.

2 - Windscreen

3 - Side frame

4 - Roof



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Minimum drying time the correctness of information in this document. Copyright by AUDI AG.



WARNING

- ◆ *When installing the trim panel, use only assembly adhesive with the designation detailed below.*
- ◆ *This type of adhesive is specified due to its elasticity and does not cause any cracks in the paint on the trim panel after it has hardened.*
- ◆ *You must NOT drive the vehicle until the minimum drying time has elapsed, as the vehicle is otherwise not safe to drive.*

	Adhesive sealant	Minimum drying time (in hours)
Trim panel for sliding/tilting sunroof	Assembly adhesive - D 190 MKD A3-	3



1.10 Removing and installing sunroof frame

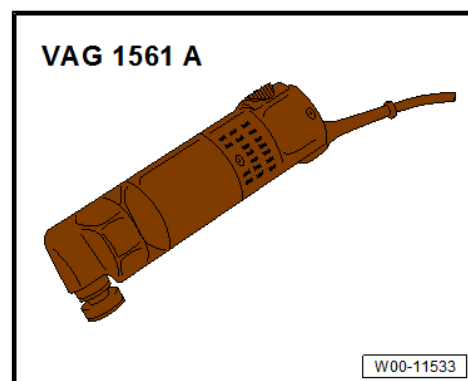


Note

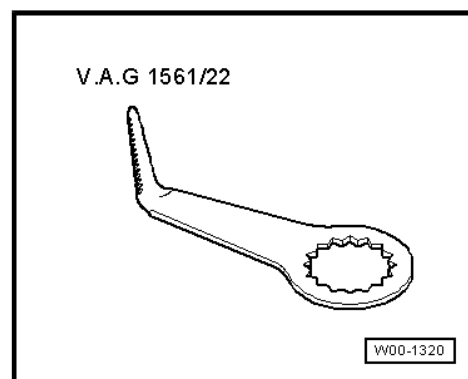
Usually it is not necessary to remove the sunroof frame to eliminate problems (note available replacement parts ⇒ Electronic parts catalogue).

Special tools and workshop equipment required

- ◆ Electric cutter - V.A.G 1561A-

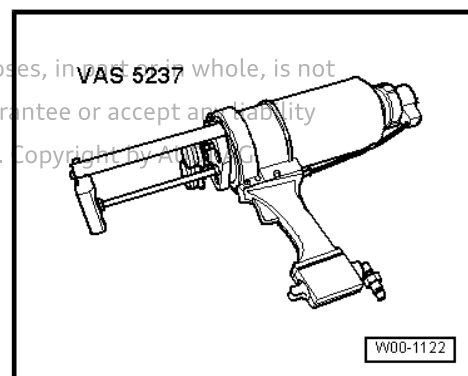


- ◆ Blade (L-shaped, 25.4 mm) - V.A.G 1561/22-



- ◆ Double cartridge gun - VAS 5237-

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Materials

- ◆ 2-component window adhesive set - DA 004 600 A2- ¹⁾
- ◆ 1-component window adhesive - DH 009 100 03- ³⁾

1) Note minimum drying time ⇒ [page 152](#) .

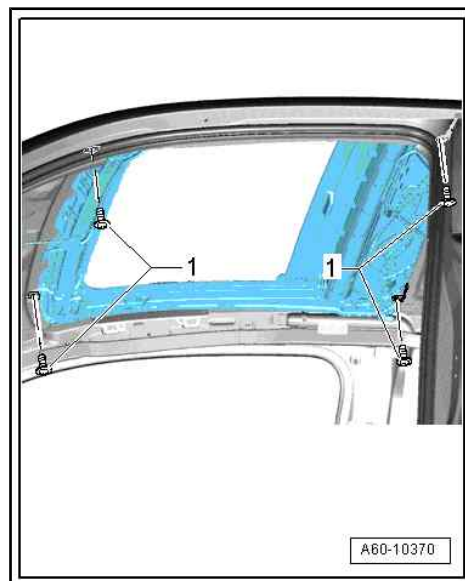
2) To process this material use double cartridge gun - VAS 5237- .



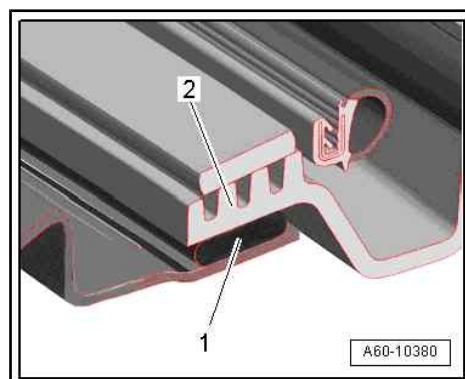
3) Small 110 ml cartridge for sealing and/or for use when the 400 ml double cartridge is not sufficient.

Removing

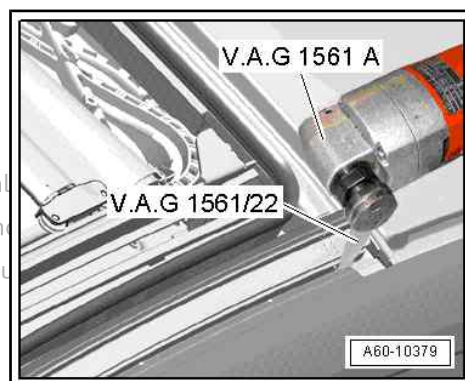
- Glass panel removed
- Front trim panel removed.
- Unplug electrical connectors for sliding/tilting sunroof.
- Headliner removed ⇒ General body repairs, interior; Rep. gr. 70 ; Roof trim panels; Removing and installing moulded headliner .
- Remove bolts -3- from inside of vehicle.



- To remove, adhesive -1- between sunroof frame -2- and body must be cut through.



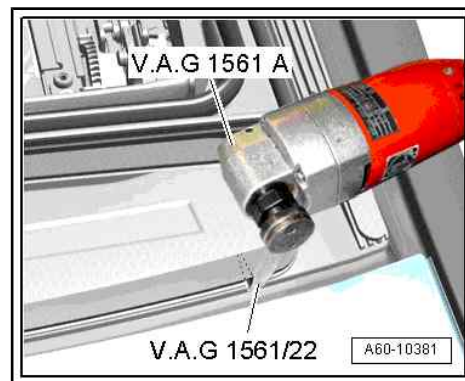
- Insert electric cutter - V.A.G 1561A- and blade (L-shaped, 25.4 mm) - V.A.G 1561/22- between body and frame at rear and cut out adhesive on both sides towards front.



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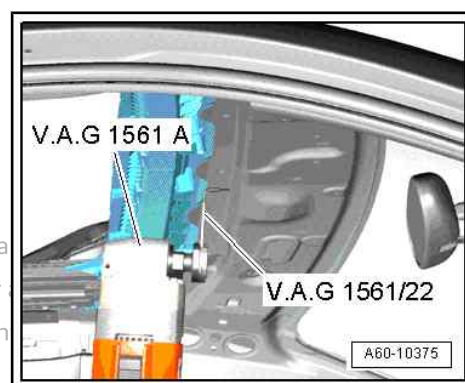
- Cut out sunroof frame between windscreen and body, as shown.
- Also cut out sunroof frame at rear.



- Working from inside of vehicle, cut through adhesive bead between sunroof frame and body, as shown.

Installing

- Before applying adhesive, glass panel must be installed.
- Sliding/tilting sunroof frame is centred at front with glass panel and front trim panel.
- At the rear, this is done with the help of a centring pin aligned centrally with the hole in the centre of the vehicle
=> page 152.
- Clean bonding surface all around with cleaning solution - D 009 401 04-.

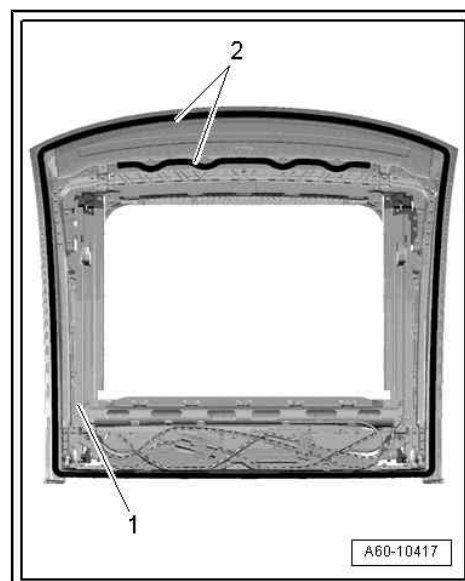


- Apply glass/paint primer - D 009 200 02- as described below.
- Start application with fully soaked felt.
- Apply glass/paint primer with applicator evenly onto roof frame in one movement, as shown.
- Primer width approx. 20 mm
- Apply glass/paint primer centrally in relation to adhesive bead.
- Flash-off time: 10 minutes



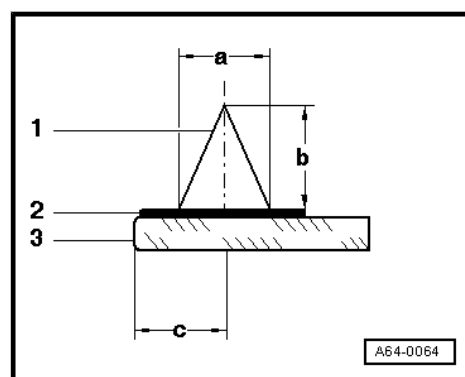
Caution

The sliding/tilting sunroof frame must be fitted within 10 minutes after applying the adhesive; otherwise the adhesive properties of the adhesive sealant will be impaired.



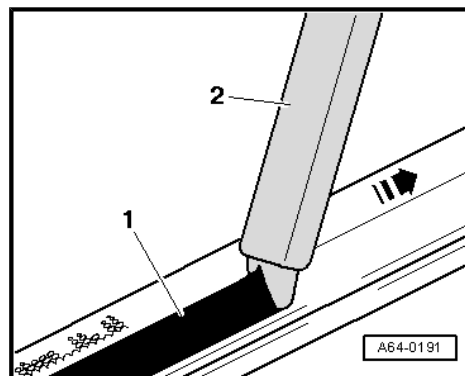
Dimensions for applying adhesive:

- 1 - Adhesive bead
- 2 - Glass/paint primer
- 3 - Sliding/tilting sunroof frame
- Dimension -a- = 8 mm
- Dimension -b- = 12 mm
- Dimension -c- = is determined by embossing on sunroof frame.

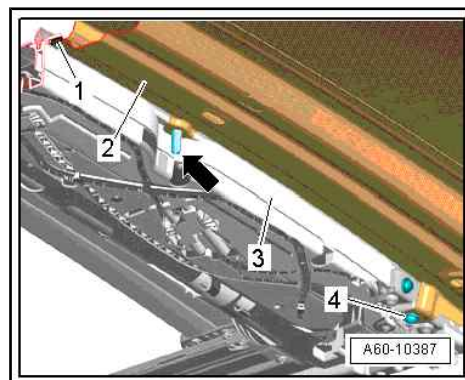




- Apply full surface of nozzle -2- to frame.
- Direction of application -arrow- for adhesive bead -1-.



- Insert sliding/tilting sunroof frame with adhesive bead -1- in roof opening.
- Frame -3- is centred at rear of roof -2- with help of centring pin -arrow-.
- To do this, centring pin must be aligned centrally in hole.
- Tighten bolts -4- to specified torque [⇒ Item 12 \(page 120\)](#) ; observe tightening sequence.

**Minimum drying time****WARNING**

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

	Adhesive sealant	Minimum drying time (in hours)
Sliding/tilting sunroof frame	2-component window adhesive set - DA 004 600 A2-	3

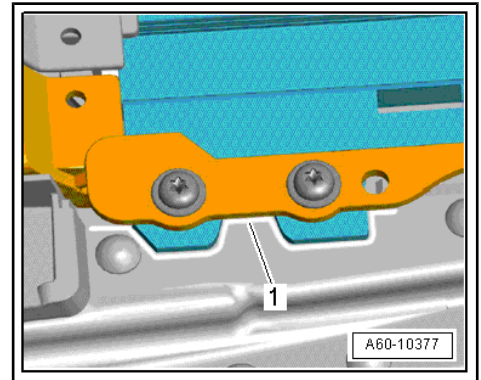
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1.11 Removing and installing slotted guide**Removing****Note**

- ◆ *Before removing, mark position of frame.*
- ◆ *A second person is required when removing the frame.*
- ◆ *One person must loosen the bolted connections while a second holds the frame and takes it out of the vehicle.*
- Headliner removed ⇒ General body repairs, interior; Rep. gr. 70 ; Roof trim panels; Removing and installing moulded headliner .
- Trim panel for sunroof sun blind removed



- Mark position of frame for slotted guide -1- on sunroof frame using a felt-tip pen or similar.

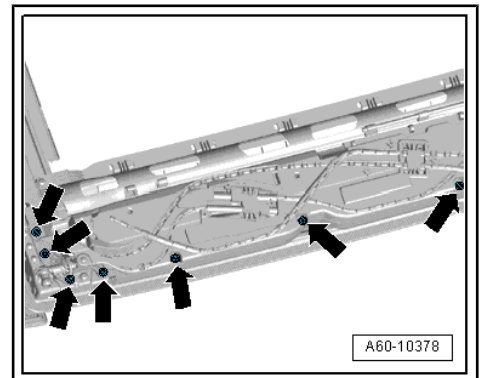


- First unscrew rear bolts -arrows- from frame.



Caution

Bolts -arrow A- remain fitted initially during removal.



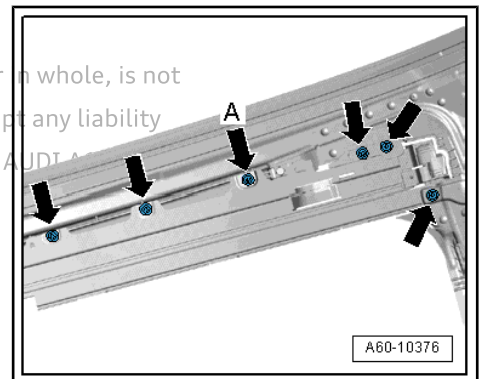
- Remove bolts -arrows-.
- Take hold of frame and only then unscrew bolts -arrow A-.
- Lift frame out of vehicle through opened rear lid.

Installing

- When installing, align frame according to marks and secure with bolts.
- Tighten bolts alternately (from front to rear) to specified torque.

Tightening torques

- ♦ ⇒ ["1.1 Exploded view - sliding panoramic sunroof", page 119](#)





2 Water drain hoses

⇒ "2.1 Overview - water drain hoses", page 154

⇒ "2.2 Cleaning water drain hoses", page 154

2.1 Overview - water drain hoses

1 - Sunroof

2 - Water drain hose (rear)

- To remove component, first pull it off at connection for sliding/tilting sunroof.
- Pull water drain hose out of hose retainers.
- Unfasten grommet from wheel housing and pull water drain hose downwards out of wheel housing.

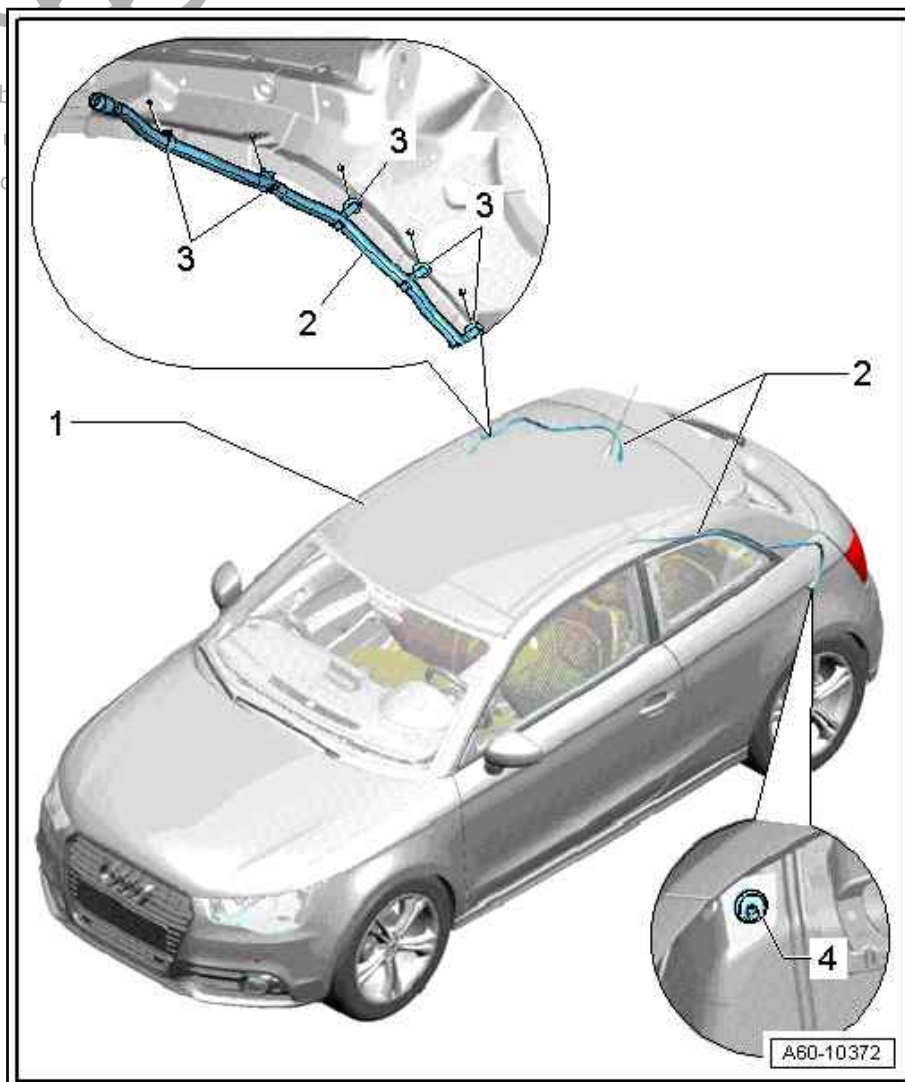
- ❑ Water drain hoses (rear) -2- are routed along C-pillars and end in wheel housings (rear).

- ❑ Cleaning ⇒ [page 154](#)

3 - Hose retainer

- ❑ Clip into C-pillar
- ❑ Press water drain hose into retainers.

4 - Grommet (rear)

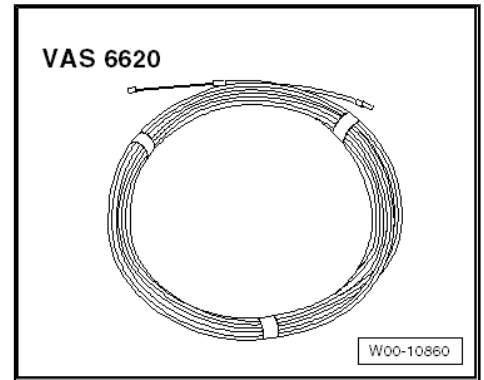


2.2 Cleaning water drain hoses

Special tools and workshop equipment required



◆ Cleaning and insertion aid - VAS 6620-



Note

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Use to clean water drain hoses.

Water drain hose (rear)

Clean from bottom end of hose.

Before doing so, remove wheel housing liner (rear).

After glass panel has been removed, water drain hoses can also be cleaned from top.



63 – Bumpers

1 Bumper (front)

⇒ [“1.1 Exploded view - bumper cover”, page 156](#)

⇒ [“1.2 Exploded view - impact bar”, page 161](#)

⇒ [“1.3 Removing and installing bumper cover”, page 162](#)

⇒ [“1.4 Removing and installing impact bar”, page 163](#)

⇒ [“1.5 Removing and installing attachments”, page 164](#)

1.1 Exploded view - bumper cover

⇒ [“1.1.1 Exploded view - bumper cover, vehicles up to model year 2014”, page 156](#)

⇒ [“1.1.2 Exploded view - bumper cover, vehicles from model year 2015 onwards”, page 158](#)

⇒ [“1.1.3 Exploded view - bumper cover, Audi A1 quattro”, page 159](#)

⇒ [“1.1.4 Exploded view - bumper cover, Audi S1 and Audi A1 S line from model year 2015 onwards”, page 160](#)

1.1.1 Exploded view - bumper cover, vehicles up to model year 2014



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1 - Bolt

- ☐ 2 Nm

2 - Closure plate for bumper cover

- ☐ Removing and installing
⇒ [page 164](#)

3 - Air intake grille

- ☐ Removing and installing
⇒ [page 166](#)

4 - Fog light

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

5 - Bumper cover

- ☐ Removing and installing
⇒ [page 162](#)

6 - Bolt

- ☐ 1.5 Nm

7 - Radiator grille

- ☐ Removing and installing
⇒ [page 211](#)

8 - Bolt

- ☐ 4.5 Nm

9 - Moulded foam insert

- ☐ Removing and installing
⇒ [page 165](#)

10 - Spoiler

- ☐ Note different versions.

11 - Clip

12 - Bumper cover

- ☐ Removing and installing ⇒ [page 162](#)

13 - Bolt

- ☐ 1.5 Nm

14 - Fog light

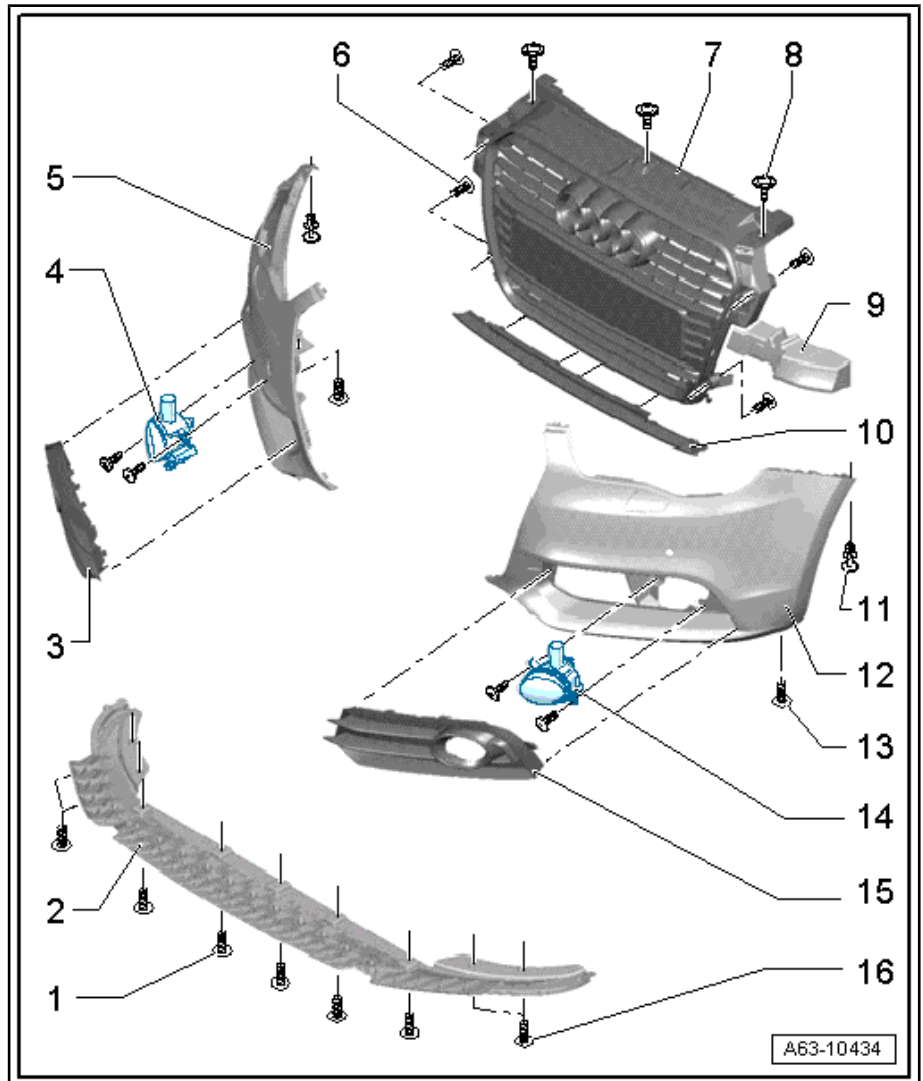
- ☐ Removing and installing ⇒ Electrical system; Rep. gr. 94 ; Fog lights; Removing and installing fog lights

15 - Air intake grille

- ☐ Removing and installing ⇒ [page 166](#)

16 - Bolt

- ☐ 1.5 Nm



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1.1.2 Exploded view - bumper cover, vehicles from model year 2015 onwards

1 - Bolt

- 2 Nm

2 - Closure plate for bumper cover

- Removing and installing
⇒ [page 164](#)

3 - Bumper cover

- Removing and installing
⇒ [page 162](#)

4 - Air intake grille (centre)

- Removing and installing
⇒ [page 169](#)

5 - Bolt

- 2 Nm

6 - Moulded foam insert

- Removing and installing
⇒ [page 165](#)

7 - Fastener

8 - Bolt

- 2 Nm

9 - Intermediate piece

- For securing wheel housing liner

10 - Cover for washer jet

- For headlight washer system
- Removing and installing
⇒ [page 166](#)

11 - Air intake grille (side)

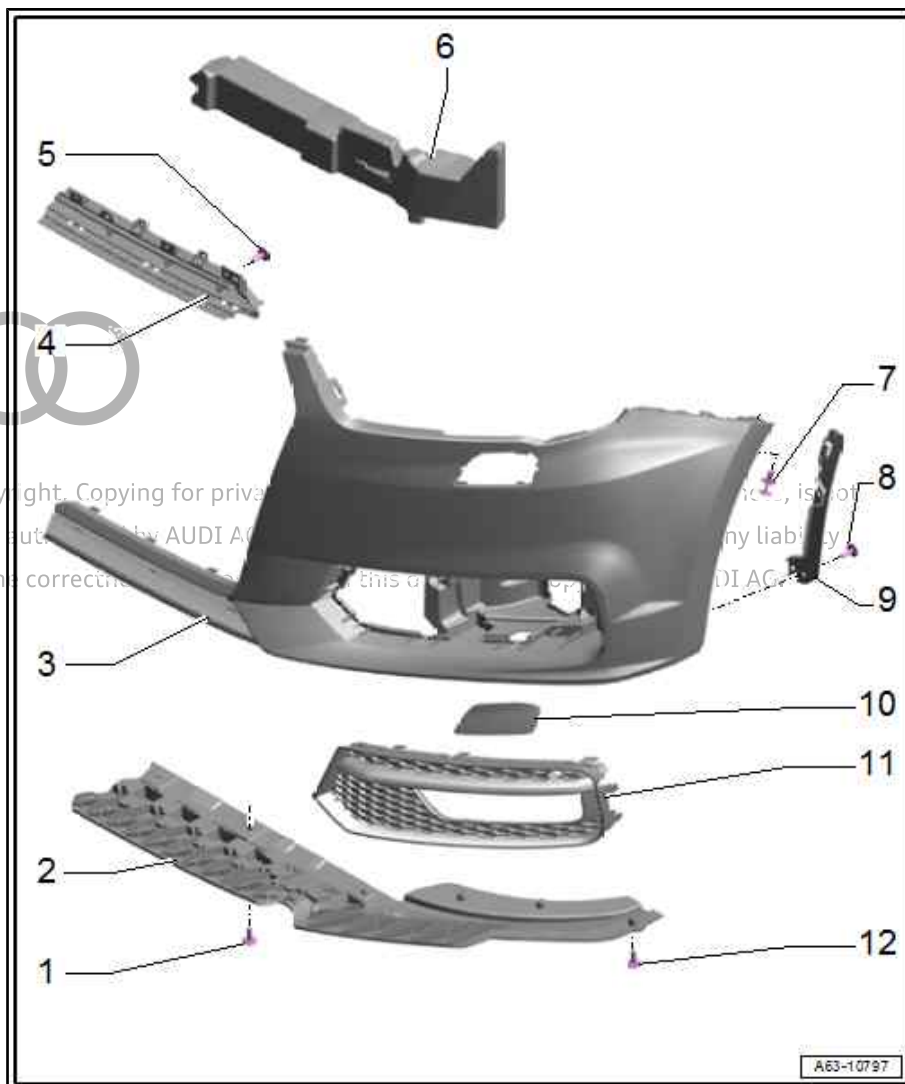
- Different versions ⇒
Electronic parts catalogue
- Removing and installing:

◆ Without fog lights ⇒ [page 166](#)

◆ With fog lights ⇒ [page 167](#)

12 - Bolt

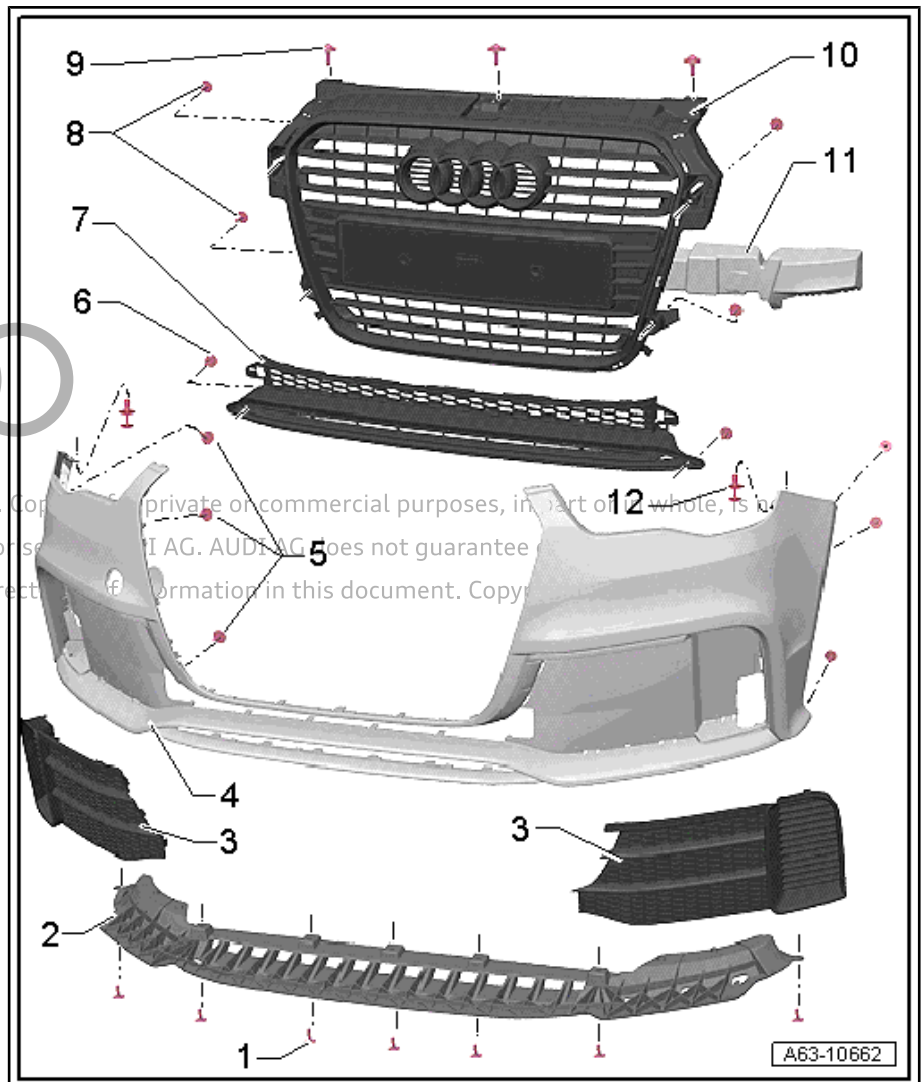
- 2 Nm





1.1.3 Exploded view - bumper cover, Audi A1 quattro

- 1 - Bolt
 - 2 Nm
- 2 - Closure plate for bumper cover
 - Removing and installing
⇒ [page 164](#)
- 3 - Air intake grille (side)
 - Removing and installing
⇒ [page 167](#)
- 4 - Bumper cover
 - Removing and installing
⇒ [page 162](#)
- 5 - Bolt
 - 2 Nm
- 6 - Bolt
 - 2 Nm
- 7 - Air intake grille (centre)
 - Removing and installing
⇒ [page 169](#)
- 8 - Bolt
 - 1.5 Nm
- 9 - Bolt
 - 4.5 Nm
- 10 - Radiator grille
 - Removing and installing
⇒ [page 211](#)
- 11 - Moulded foam insert
 - Removing and installing
⇒ [page 165](#)
- 12 - Clip





1.1.4 Exploded view - bumper cover, Audi S1 and Audi A1 S line from model year 2015 onwards

1 - Bolt

- 2 Nm

2 - Closure plate for bumper cover

- Removing and installing
⇒ [page 164](#)

3 - Air intake grille (side)

- Removing and installing
⇒ [page 167](#)

4 - Bumper cover

- Removing and installing
⇒ [page 162](#)

5 - Air intake grille (centre)

- Removing and installing
⇒ [page 169](#)

6 - Bolt

- 2 Nm

7 - Moulded foam insert

- Removing and installing
⇒ [page 165](#)

8 - Intermediate piece

- For securing wheel housing liner

9 - Bolt

- 2 Nm

10 - Fastener

11 - Cover for washer jet

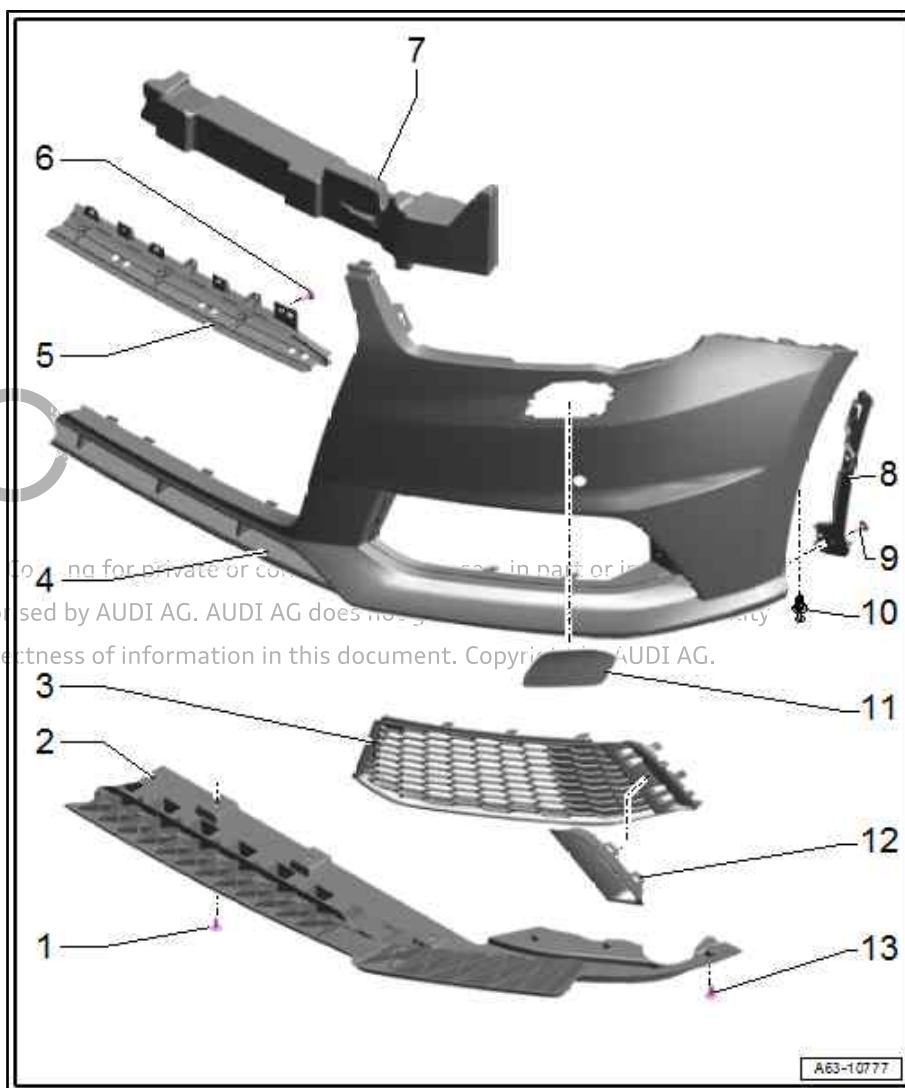
- For headlight washer system
- Removing and installing
⇒ [page 166](#)

12 - Trim

- For air inlet (side)
- Removing and installing ⇒ [page 168](#)

13 - Bolt

- 2 Nm





1.2 Exploded view - impact bar

1 - Impact bar

- ❑ Removing and installing
⇒ [page 163](#)
- ❑ When installing, air duct
must be positioned
around impact bar (as
shown in sectional view)

2 - Bolt

- ❑ 30 Nm

3 - Bolt

- ❑ 5 Nm

4 - Air duct

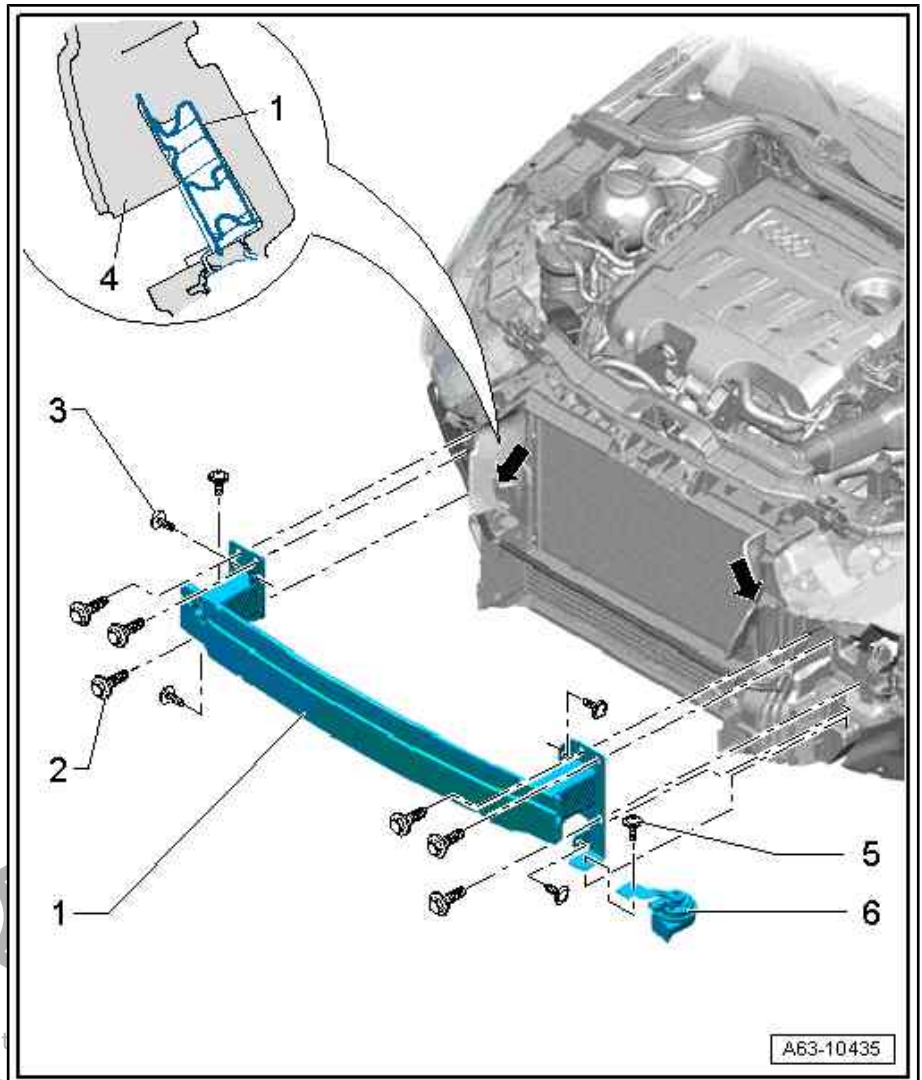
- ❑ Ensure correct routing
-arrows- around impact bar
(as shown)

5 - Bolt

- ❑ 5 Nm

6 - Bass horn - H7-

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



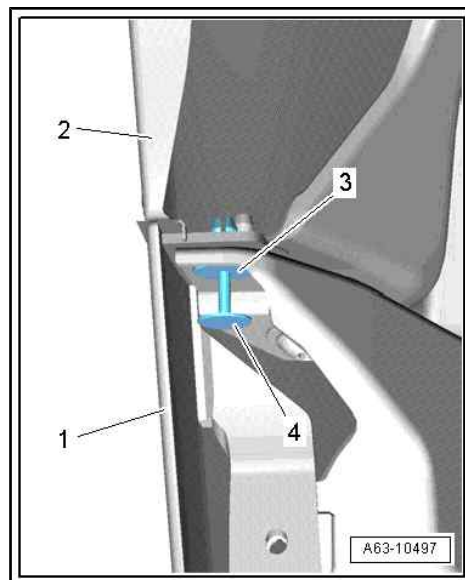
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1.3 Removing and installing bumper cover

Removing

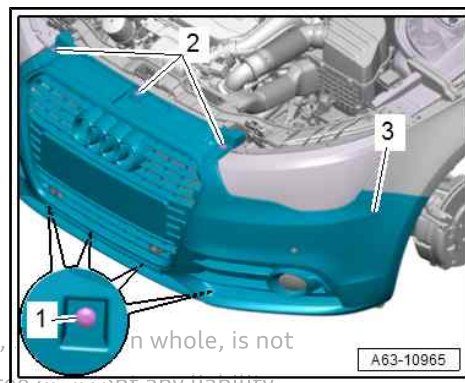
- Unfasten wheel housing liner (front) at front and push to side
⇒ [page 269](#).
- If fitted, unplug central connector (left-side).
- Pull out locking pin -4- and release fastener -3-.
- Pull fastener out of wing panel -2- and bumper cover -1-.



- Remove bolts -1, 2-.



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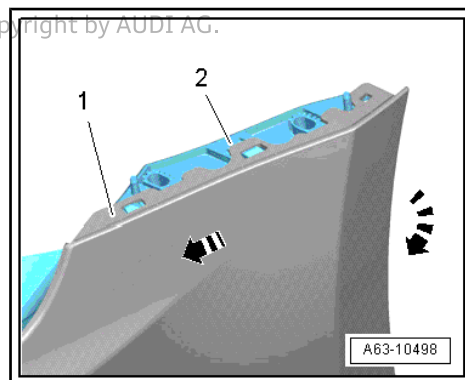
- Bend open side section of bumper cover -1- slightly over wheel housing liner.
- Slide cover forwards in direction of -arrows- out of fasteners of headlight mounting -2-.
- Only now pull side section completely out of wing and headlight mounting and detach bumper cover from vehicle towards front.

Installing

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

Tightening torques

- ◆ ⇒ ["1.1 Exploded view - bumper cover", page 156](#)





1.4 Removing and installing impact bar

Removing

- Remove bumper cover (front) ⇒ [page 162](#) .



Note

Before removing, mark position on longitudinal member and align accordingly during installation.

- Remove bolts -1, 3, 4, 5- from mounting for impact bar.

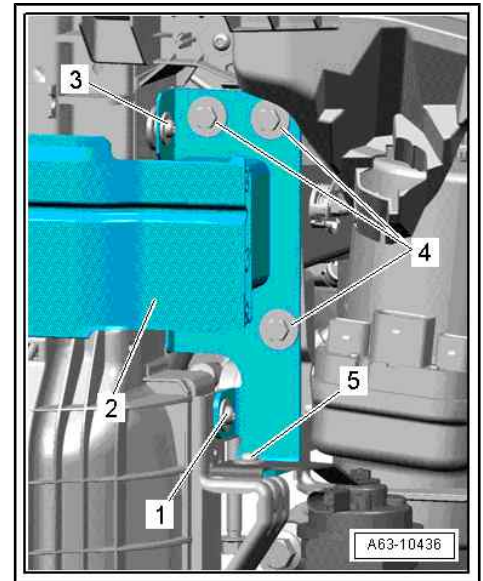
Installing

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

- Bolt on mounting for impact bar according to mark made during removal.

Tightening torques

- ◆ ⇒ [“1.2 Exploded view - impact bar”, page 161](#)



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1.5 Removing and installing attachments

⇒ [“1.5.1 Removing and installing closure plate for bumper cover \(front\)”, page 164](#)

⇒ [“1.5.2 Removing and installing spoiler lip”, page 165](#)

⇒ [“1.5.3 Removing and installing moulded foam insert”, page 165](#)

⇒ [“1.5.4 Removing and installing cover for headlight washer jet”, page 166](#)

⇒ [“1.5.5 Removing and installing air intake grille - vehicles up to model year 2014”, page 166](#)

⇒ [“1.5.6 Removing and installing air intake grille - vehicles without fog lights from model year 2015 onwards”, page 166](#)

⇒ [“1.5.7 Removing and installing air intake grille - vehicles with fog lights from model year 2015 onwards”, page 167](#)

⇒ [“1.5.8 Removing and installing air intake grille - Audi A1 quattro”, page 167](#)

⇒ [“1.5.9 Removing and installing air intake grille - Audi S1”, page 167](#)

⇒ [“1.5.10 Removing and installing trim for air inlet \(side\) - Audi S1”, page 168](#)

⇒ [“1.5.11 Removing and installing air intake grille \(centre\) - Audi A1 quattro”, page 169](#)

⇒ [“1.5.12 Removing and installing air intake grille \(centre\) - Audi S1 and vehicles from model year 2015 onwards”, page 169](#)

1.5.1 Removing and installing closure plate for bumper cover (front)

Removing

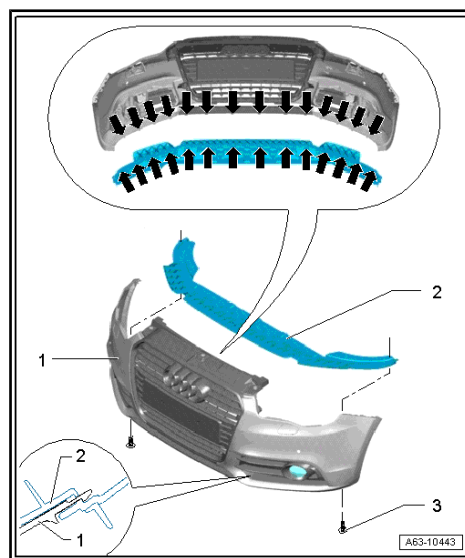
- Remove bumper cover (front) ⇒ [page 162](#) .
- Unscrew bolt -3-.
- Release fasteners -arrows- and detach closure plate.

Installing

Installation is carried out in reverse sequence.

Tightening torques

- ◆ ⇒ [“1.1 Exploded view - bumper cover”, page 156](#)





1.5.2 Removing and installing spoiler lip

Removing

- Remove closure plate for bumper cover (front) ⇒ [page 164](#) .



Caution

Risk of damage to spoiler lip.

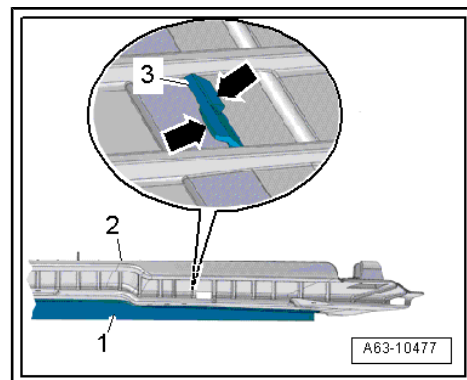
- ◆ *Coat retaining tabs on spoiler lip with a small amount of soap solution.*

- Starting at outer edge, carefully pull retaining tabs -3- of spoiler lip -1- out of spoiler mounting -2-.
- Detach spoiler lip.

Installing

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

- Install closure plate for bumper cover (front) ⇒ [page 164](#) .



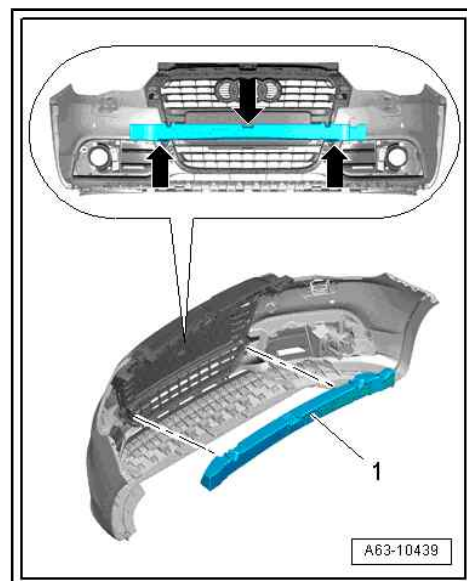
1.5.3 Removing and installing moulded foam insert

Removing

- Remove bumper cover (front) ⇒ [page 162](#) .
- If fitted, move clear electrical wiring harness -1- for front parking aid senders -arrow-.
- Guide moulded foam insert -1- out of retainers -arrows- and detach.

Installing

Installation is carried out in reverse sequence.



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1.5.4 Removing and installing cover for headlight washer jet

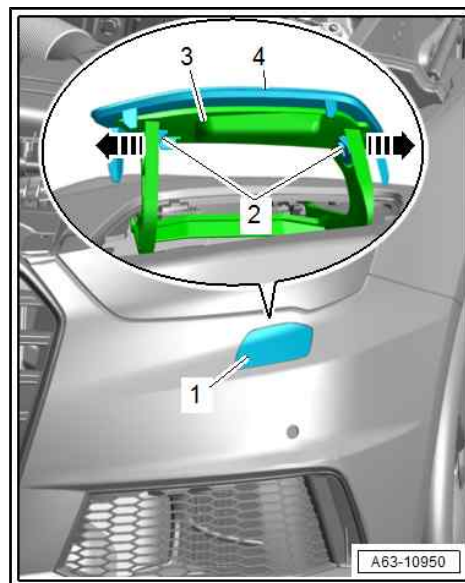
Removing

- Open cover -1- for washer jet.
- Release fasteners -2- on inside in direction of -arrows-.
- Detach cover -4- from mounting -3-.

Installing

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

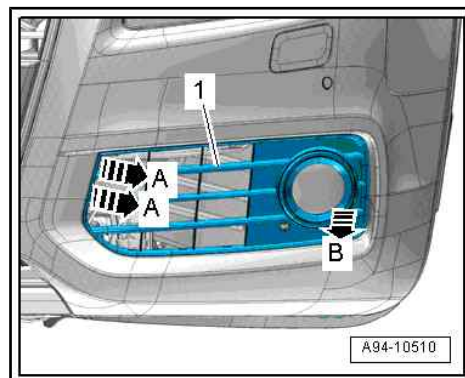
- Press on washer jet cover until it engages audibly.



1.5.5 Removing and installing air intake grille - vehicles up to model year 2014

Removing

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



1.5.6 Removing and installing air intake grille - vehicles without fog lights from model year 2015 onwards

Special tools and workshop equipment required

- ◆ Hook - T40207-

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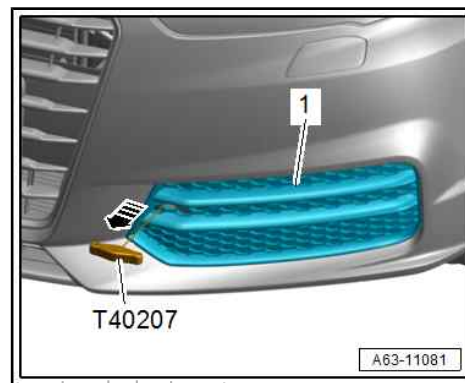


Removing

- Insert hook - T40207- in opening and pull air intake grille -1- out of bumper cover -arrow-.

Installing

Installation is carried out in reverse sequence.



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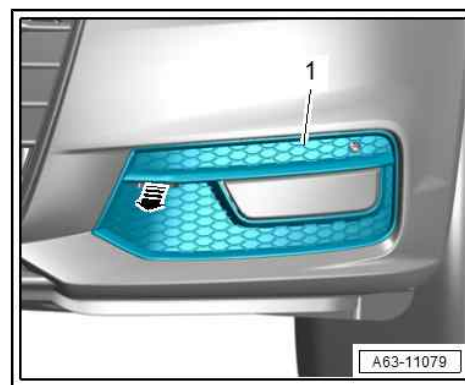
1.5.7 Removing and installing air intake grille - vehicles with fog lights from model year 2015 onwards

Removing

- Pull air intake grille -1- off bumper cover -arrow-.

Installing

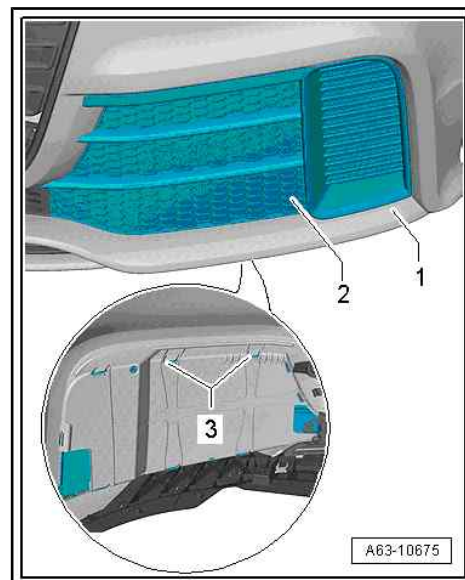
Installation is carried out in reverse sequence.



1.5.8 Removing and installing air intake grille - Audi A1 quattro

Removing

- Release retaining hooks -3- on inside using a screwdriver.
- Detach air intake grille -2- from bumper cover -1- towards front.



1.5.9 Removing and installing air intake grille - Audi S1

Special tools and workshop equipment required



◆ Front-end hook - 3370-



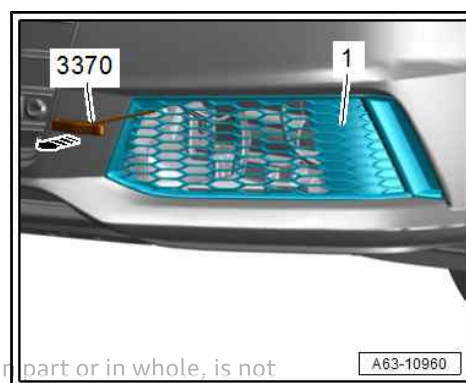
Removing

- Apply front-end hook - 3370- to air intake grille -1-, as shown in illustration.
- Hook must face upwards.
- Release air intake grille -arrow- and pull it out of bumper cover.

Installing

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

- Air intake grille should engage audibly.
- Pull air intake grille slightly to check whether all retaining hooks have engaged.



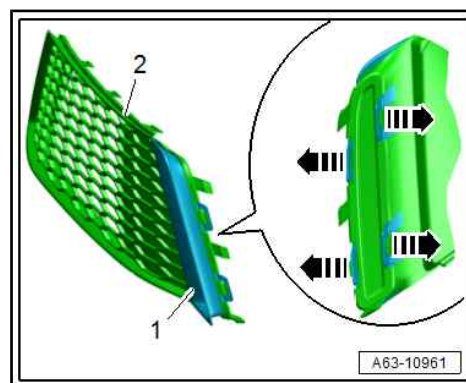
1.5.10 Removing and installing trim for air inlet (side) - Audi S1

Removing

- Remove air intake grille ⇒ [page 167](#) .
- Release fasteners -arrows-.
- Detach trim -1- from air intake grille -2- towards front.

Installing

Installation is carried out in reverse sequence.





1.5.11 Removing and installing air intake grille (centre) - Audi A1 quattro

Removing

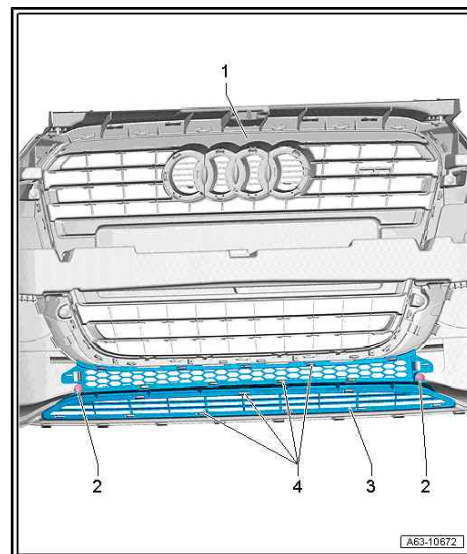
- Remove bolts -2-.
- Release retaining hooks -4- using a screwdriver.
- Pull air intake grille -3- off bumper cover -1-.

Installing

Installation is carried out in reverse sequence.

Tightening torques

- ◆ ⇒ ["1.1.3 Exploded view - bumper cover, Audi A1 quattro", page 159](#)



1.5.12 Removing and installing air intake grille (centre) - Audi S1 and vehicles from model year 2015 onwards

Removing

- Remove closure plate ⇒ [page 164](#).
- If fitted, move electrical wiring harness -3- clear.
- Remove bolts -1, 2-.
- Release fasteners -arrows- and at the same time pull air intake grille -4- off bumper cover -5-.

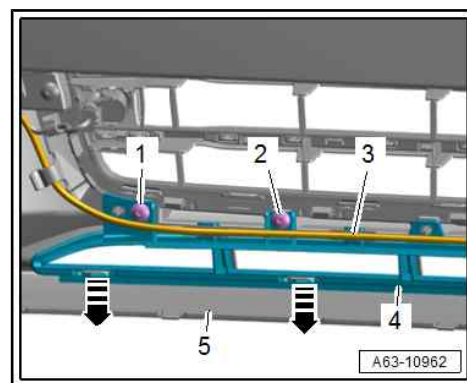
Installing

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

- Air intake grille should engage audibly.

Tightening torques

- ◆ ⇒ ["1.1.4 Exploded view - bumper cover, Audi S1 and Audi A1 S line from model year 2015 onwards", page 160](#)



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2 Bumper (rear)

⇒ [“2.1 Exploded view - bumper cover”, page 170](#)

⇒ [“2.2 Exploded view - impact bar”, page 174](#)

⇒ [“2.3 Removing and installing bumper cover”, page 175](#)

⇒ [“2.4 Removing and installing attachments”, page 180](#)

2.1 Exploded view - bumper cover

⇒ [“2.1.1 Exploded view - bumper cover, vehicles up to model year 2014”, page 170](#)

⇒ [“2.1.2 Exploded view - bumper cover, vehicles from model year 2015 onwards”, page 171](#)

⇒ [“2.1.3 Exploded view - bumper cover, Audi A1 quattro”, page 172](#)

⇒ [“2.1.4 Exploded view - bumper cover, Audi S1”, page 173](#)

2.1.1 Exploded view - bumper cover, vehicles up to model year 2014

1 - Bumper cover (rear)

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

2 - Mounting bracket (left-side)

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

3 - Bolt

- ☐ 9x
- ☐ 3 Nm

4 - Clip

5 - Mounting bracket (right-side)

6 - Nut

- ☐ Tightening sequence:
start at outside and work
inwards
- ☐ Remove with socket -
T40078-
- ☐ 4 Nm

7 - Clip

8 - Bolt

- ☐ 2 Nm

9 - Pop rivet nut

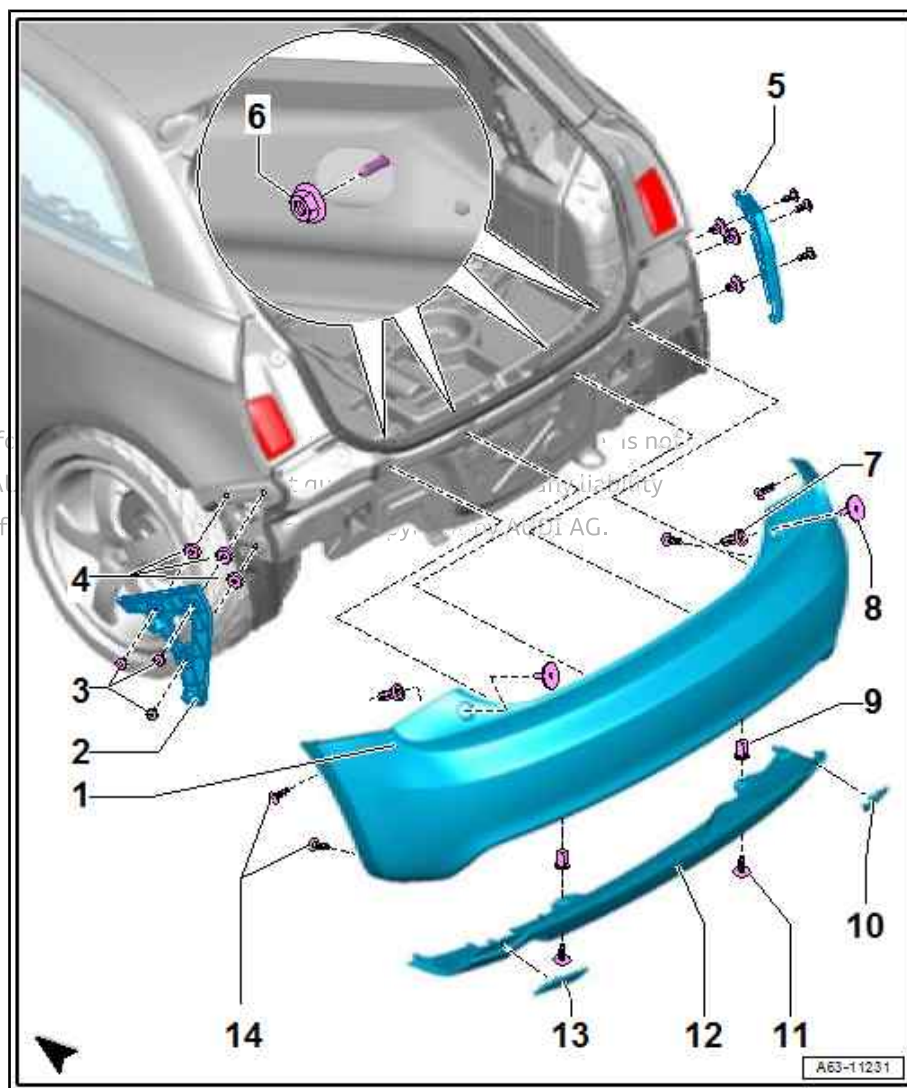
- ☐ Must be flush on side
frame during installation

10 - Reflector

- ☐ Clipped into bumper
cover

11 - Bolt

- ☐ 1.5 Nm





12 - Spoiler for bumper cover

- ☐ Removing and installing ⇒ [page 181](#)

13 - Reflector

- ☐ Clipped in

14 - Bolt

- ☐ 1.5 Nm

2.1.2 Exploded view - bumper cover, vehicles from model year 2015 onwards

1 - Reflector

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

2 - Spoiler for bumper cover

- ☐ Removing and installing
⇒ [page 181](#)

3 - Bolt

- ☐ 1.7 Nm

4 - Mounting (side)

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

5 - Bolt

- ☐ 3x
- ☐ Tightening sequence
⇒ [page 172](#)

6 - Bolt

- ☐ 2 Nm

7 - Nut

- ☐ Remove with socket - T40078-
- ☐ Tightening sequence: start at outside and work inwards
- ☐ 5 Nm

8 - Bumper cover (rear)

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

9 - Cover

- ☐ For towing eye

10 - Cover

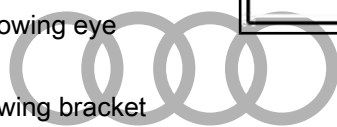
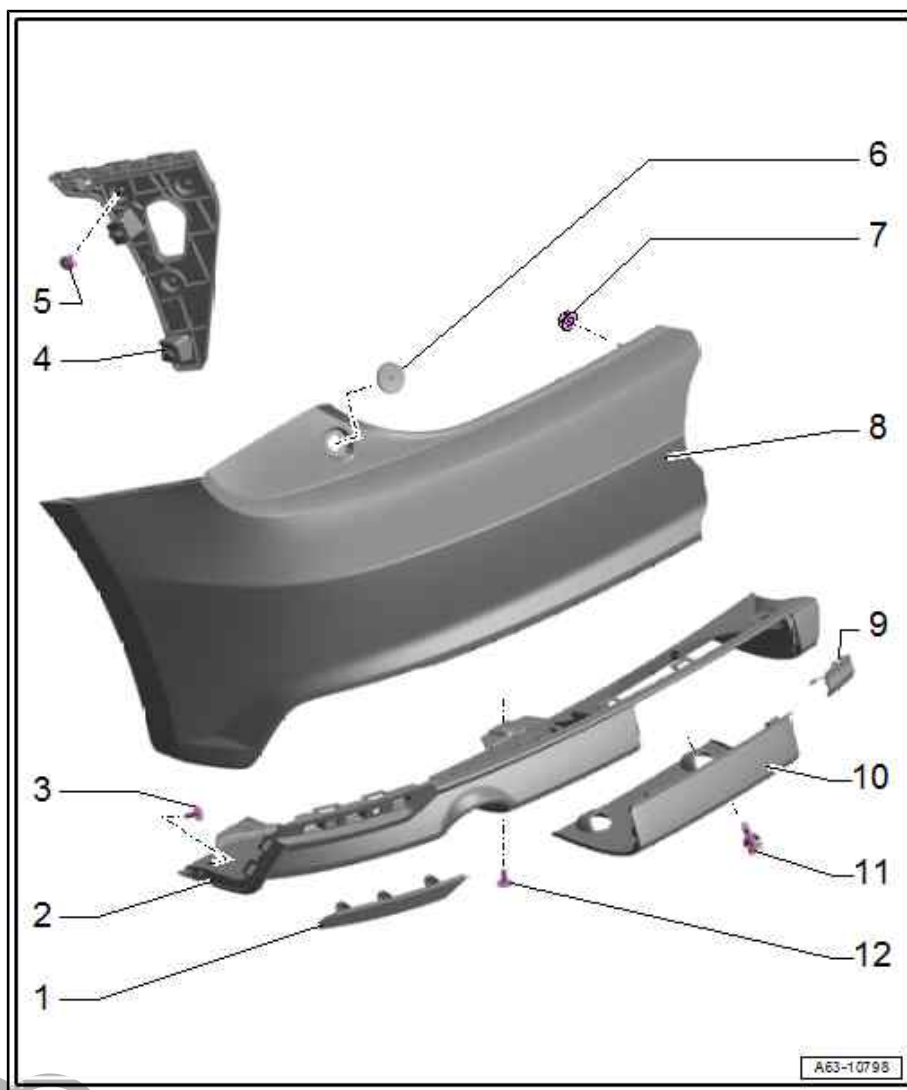
- ☐ At towing bracket
- ☐ Depending on version

11 - Quick-release fastener

- ☐ 2x

12 - Bolt

- ☐ 4x
- ☐ 1.5 Nm



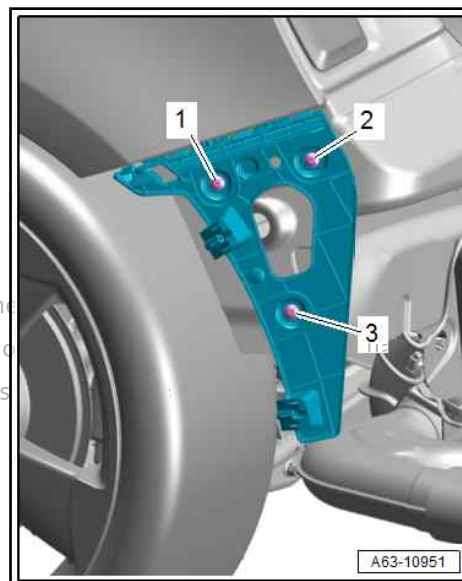
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**Bumper cover mounting (side) - tightening torque and sequence**

- Tighten bolts to 3 Nm in the sequence -1, 2, 3-.



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**2.1.3 Exploded view - bumper cover, Audi A1 quattro****1 - Wiring harness****2 - Entry and start authorisation aerial**

- ❑ Removing and installing
⇒ Electrical system;
Rep. gr. 94 ; Entry and start authorisation; Removing and installing rear bumper aerial for entry and start authorisation - R136-

3 - Parking aid sender

- ❑ Removing and installing
⇒ Electrical system;
Rep. gr. 94 ; Parking aid; Overview - parking aid

4 - Nut

- Unscrew nut using socket - T40078- .

- ❑ 5 Nm

5 - Pop rivet nut**6 - Bumper****7 - Bolt**

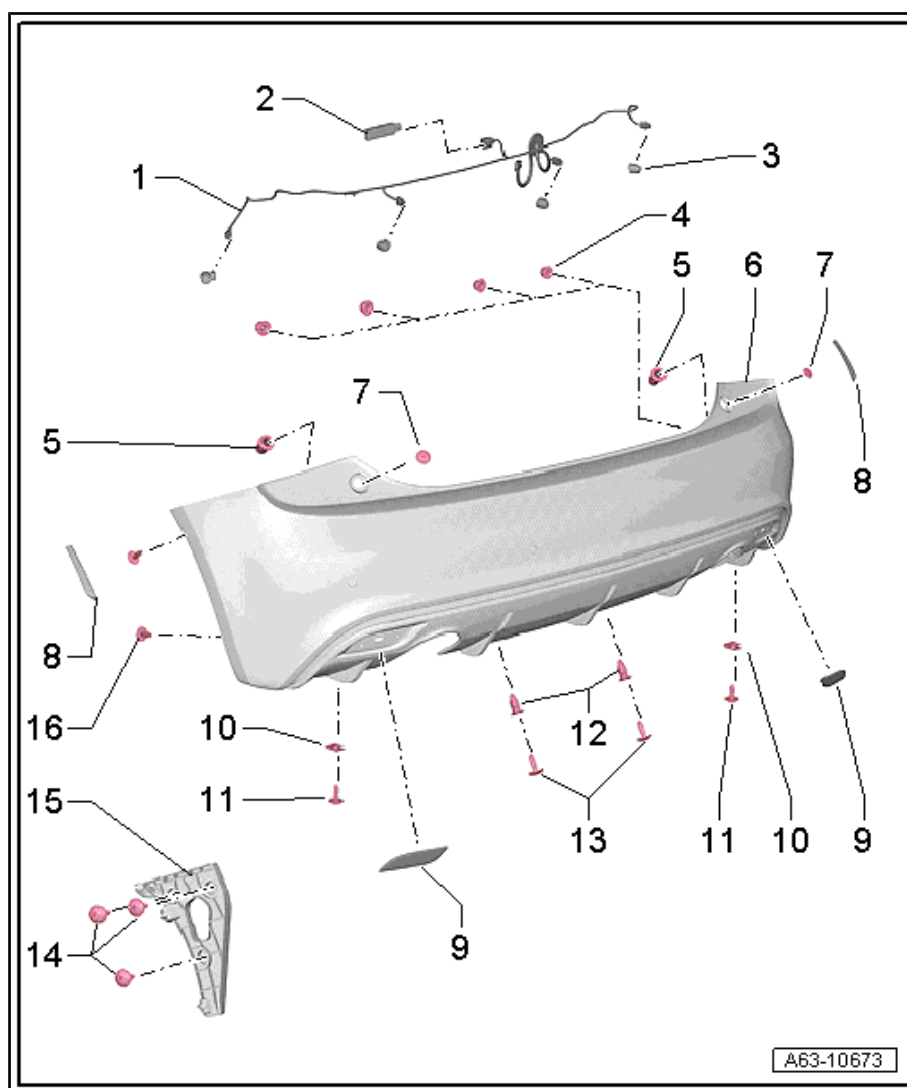
- ❑ 2 Nm

8 - Wheel housing extensions

- ❑ Removing and installing
⇒ ["3.15.1 Renewing wheel housing extension - Audi A1 quattro", page 252](#)

9 - Reflector

- ❑ Clipped into bumper cover





10 - Speed nut

- ☐ 2x

11 - Bolt

- ☐ 1.7 Nm

12 - Expanding nut

- ☐ 2x

13 - Bolt

- ☐ 1.8 Nm

14 - Bolt

- ☐ 3 Nm

15 - Mounting (side)

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

16 - Bolt

- ☐ 1.7 Nm

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2.1.4 Exploded view - bumper cover, Audi S1

1 - Reflector

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

2 - Spoiler for bumper cover

- ☐ Removing and installing
⇒ [page 181](#)

3 - Bolt

- ☐ 1.7 Nm

4 - Bumper cover (rear)

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

5 - Wheel housing extension

- ☐ Removing and installing
⇒ [page 253](#)

6 - Mounting (side)

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

7 - Bolt

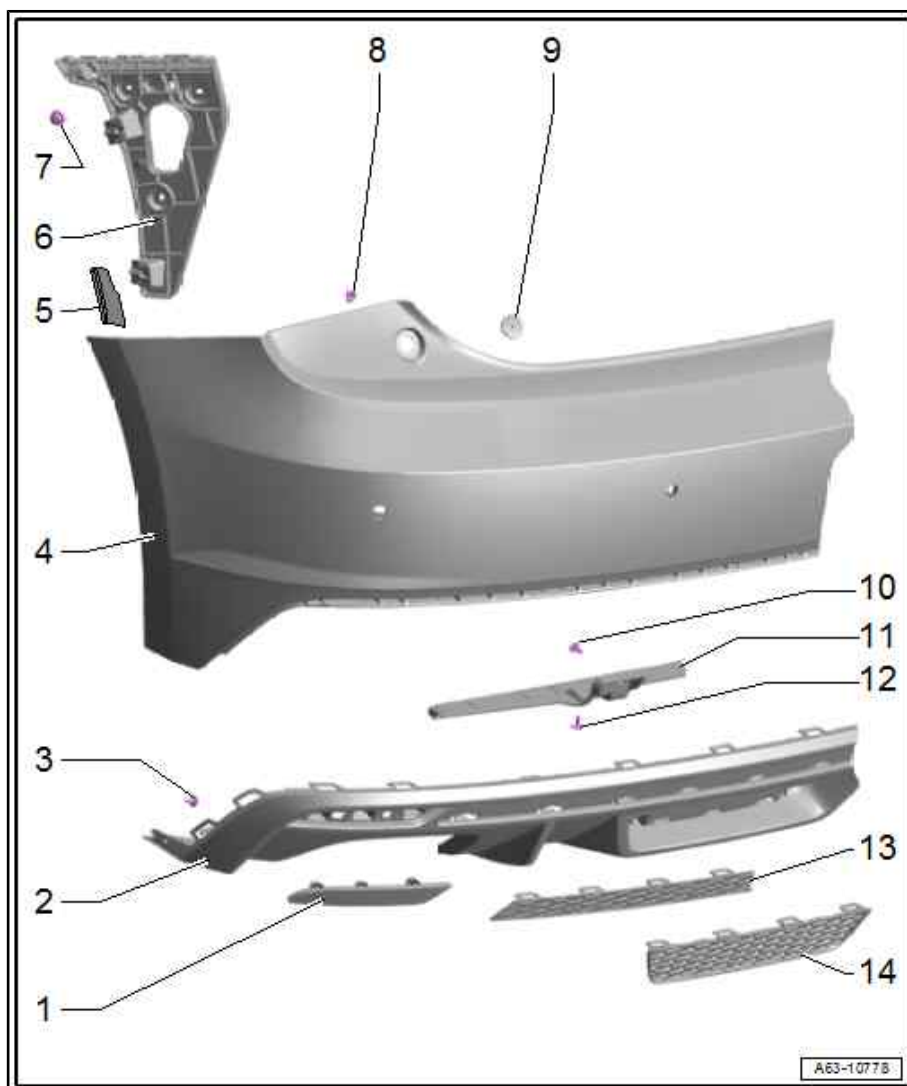
- ☐ 3x
- ☐ Tightening sequence
⇒ [page 172](#)

8 - Nut

- ☐ Remove with socket -
T40078-
- ☐ 5 Nm

9 - Bolt

- ☐ 2 Nm





10 - Bolt

- ☐ 2x
- ☐ 1.7 Nm



11 - Reinforcement strut

12 - Bolt

- ☐ 2x
- ☐ 1.8 Nm

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13 - Decorative grille (large)

14 - Decorative grille (small)

2.2 Exploded view - impact bar

⇒ [“2.2.1 Exploded view - impact bar without towing bracket”, page 174](#)

⇒ [“2.2.2 Exploded view - impact bar with towing bracket”, page 175](#)

2.2.1 Exploded view - impact bar without towing bracket

1 - Bumper cover

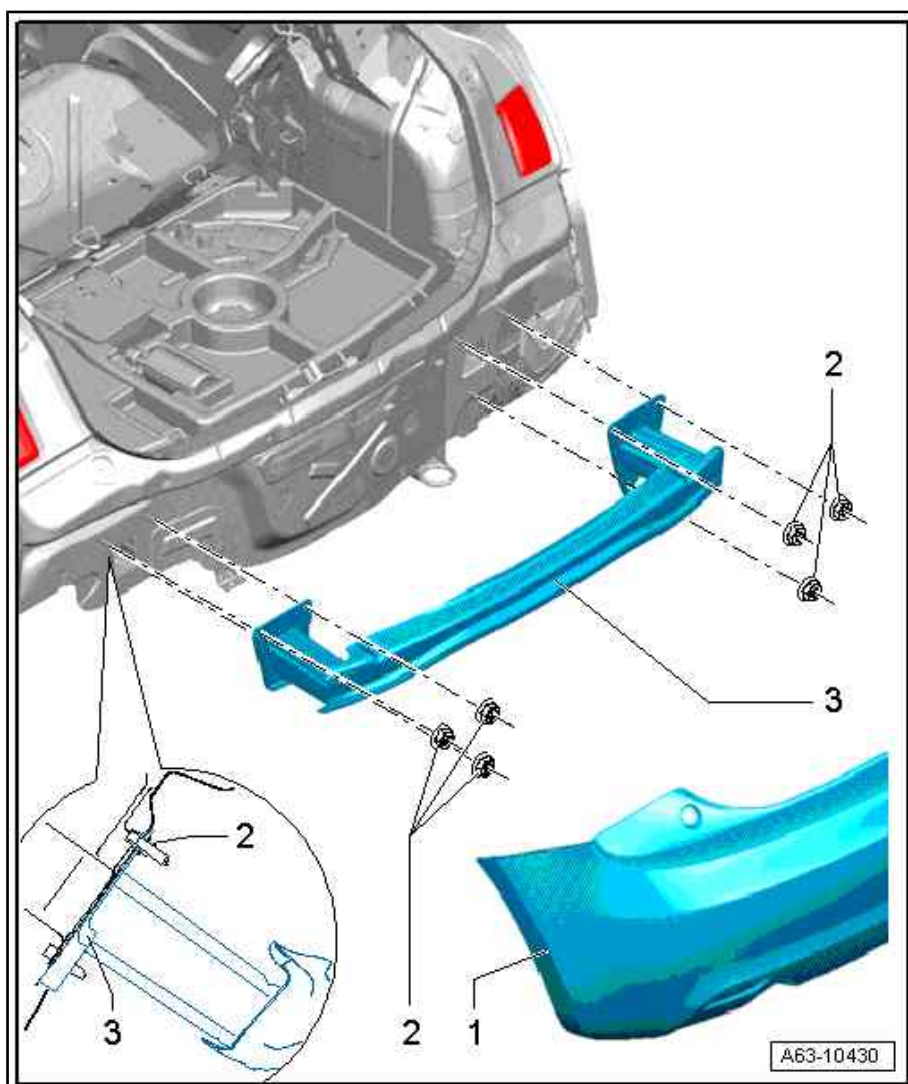
- ☐ Removed

2 - Nut

- ☐ 20 Nm

3 - Impact bar

- ☐ Bumper cover removed
- Remove nuts -3- on both sides and detach impact bar.





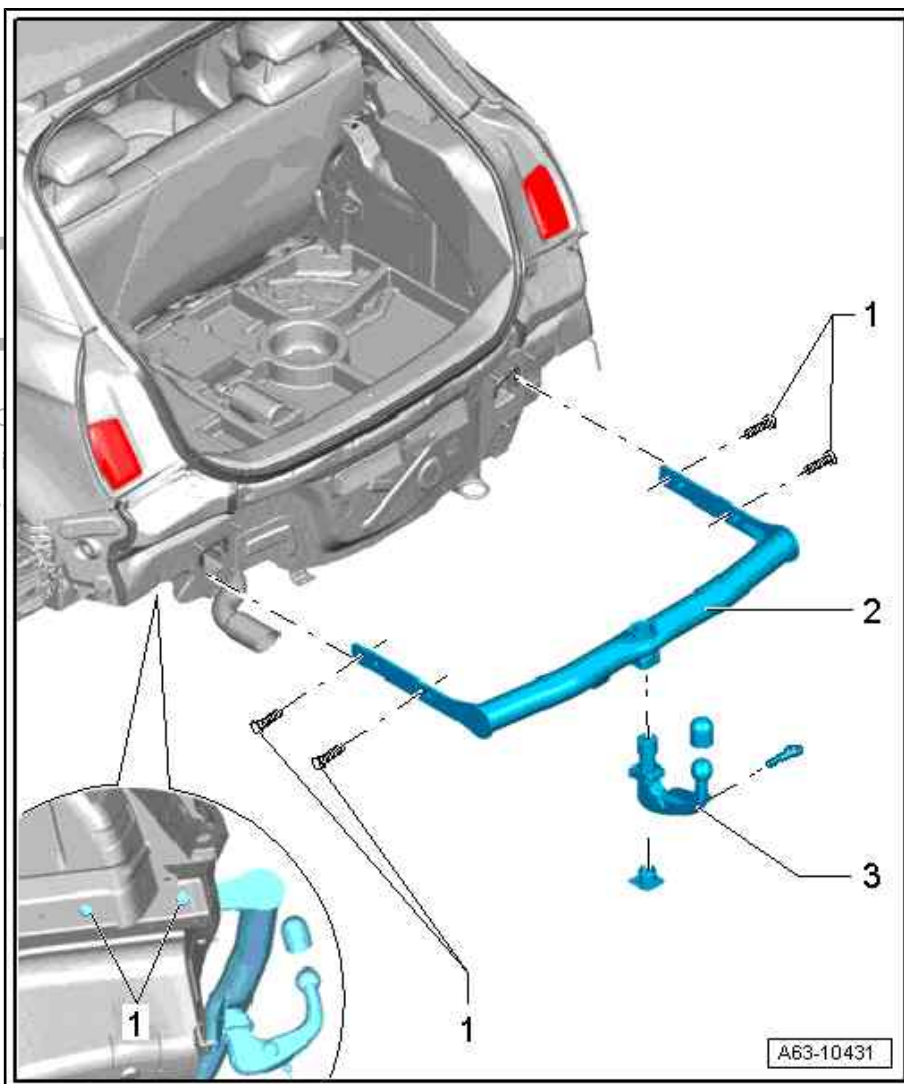
2.2.2 Exploded view - impact bar with towing bracket

1 - Bolt

- ☐ 50 Nm + 90°
- ☐ Bolts must be renewed following removal.

2 - Impact bar with towing bracket

- ☐ Removing
 - Bumper cover removed
 - Remove socket from towing bracket and unfasten wiring harness.
 - Remove bolts -1- and pull towing bracket out of longitudinal member towards rear.
 - In area of front bolted connection, wheel housing liner must be unfastened and pressed to the side so that bolt becomes accessible.
- ☐ Installing
 - Insert towing bracket in longitudinal members and secure loosely with bolts.
 - Tighten bolts alternately (from front to rear) to specified torque.
 - Attach wiring harness and secure socket for towing bracket with bolts.



3 - Ball head

2.3 Removing and installing bumper cover

⇒ ["2.3.1 Removing and installing bumper cover", page 175](#)

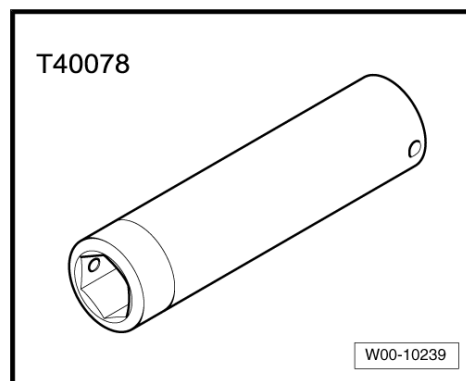
⇒ ["2.3.2 Removing and installing bumper cover - Audi A1 quattro / Audi S1", page 177](#)

2.3.1 Removing and installing bumper cover

Special tools and workshop equipment required

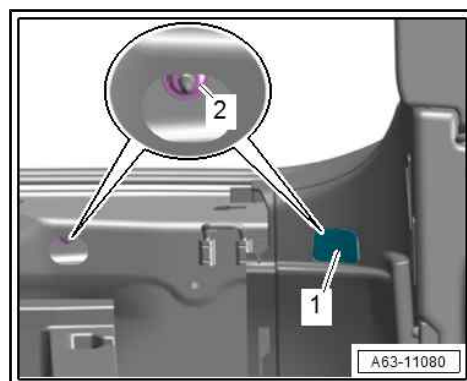


◆ Socket - T40078-

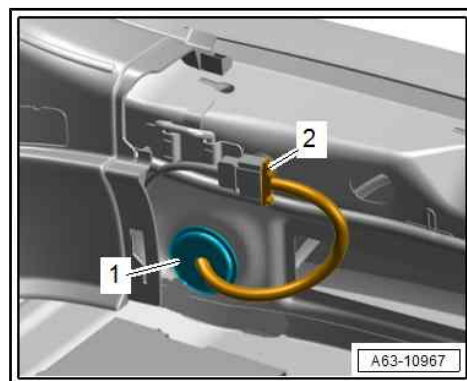
**Removing**

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

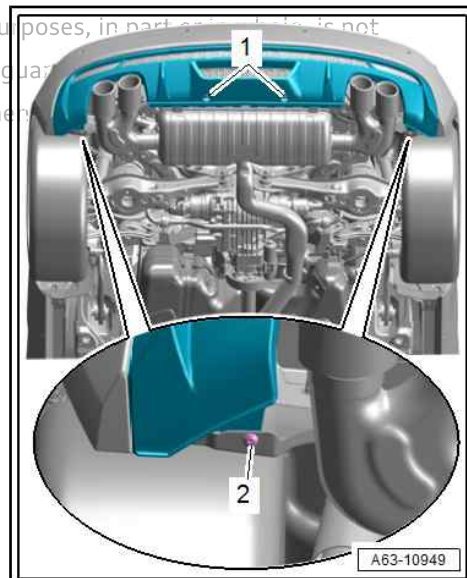
- Lever off cover -1-.
- Unscrew nuts -2- using socket - T40078- .



- On vehicles with parking aid, unplug electrical connector -2-.
- Push grommet -1- through to outside.



- Unscrew bolts -1- on bottom section of bumper cover.
 - If fitted, unscrew bolts -2-.
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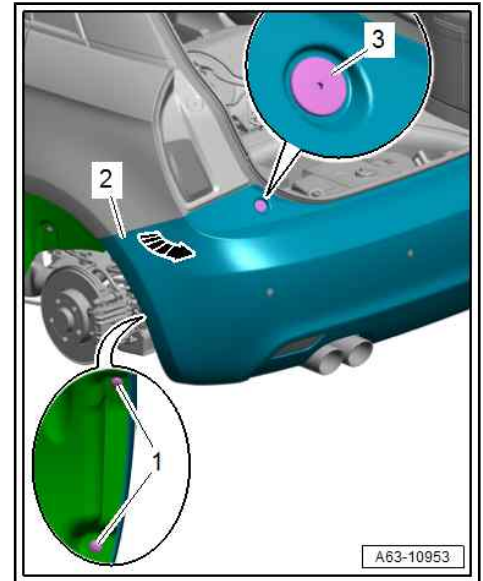
- Remove bolts -1, 3-.
- Disengage side sections at mounting outwards -arrow-.
- Detach bumper cover -2-.
- If fitted, electrical wiring harness for parking aid senders must be routed out through body opening.
- Set down bumper cover on a soft surface.

Installing

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

Tightening torques

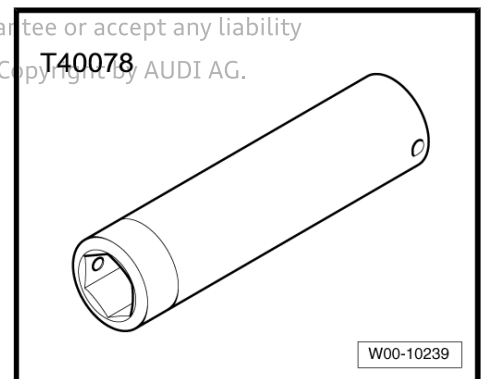
- ◆ ⇒ [“2.1 Exploded view - bumper cover”, page 170](#)

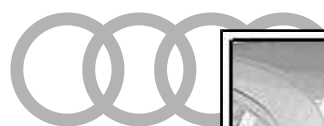


2.3.2 Removing and installing bumper cover - Audi A1 quattro / Audi S1

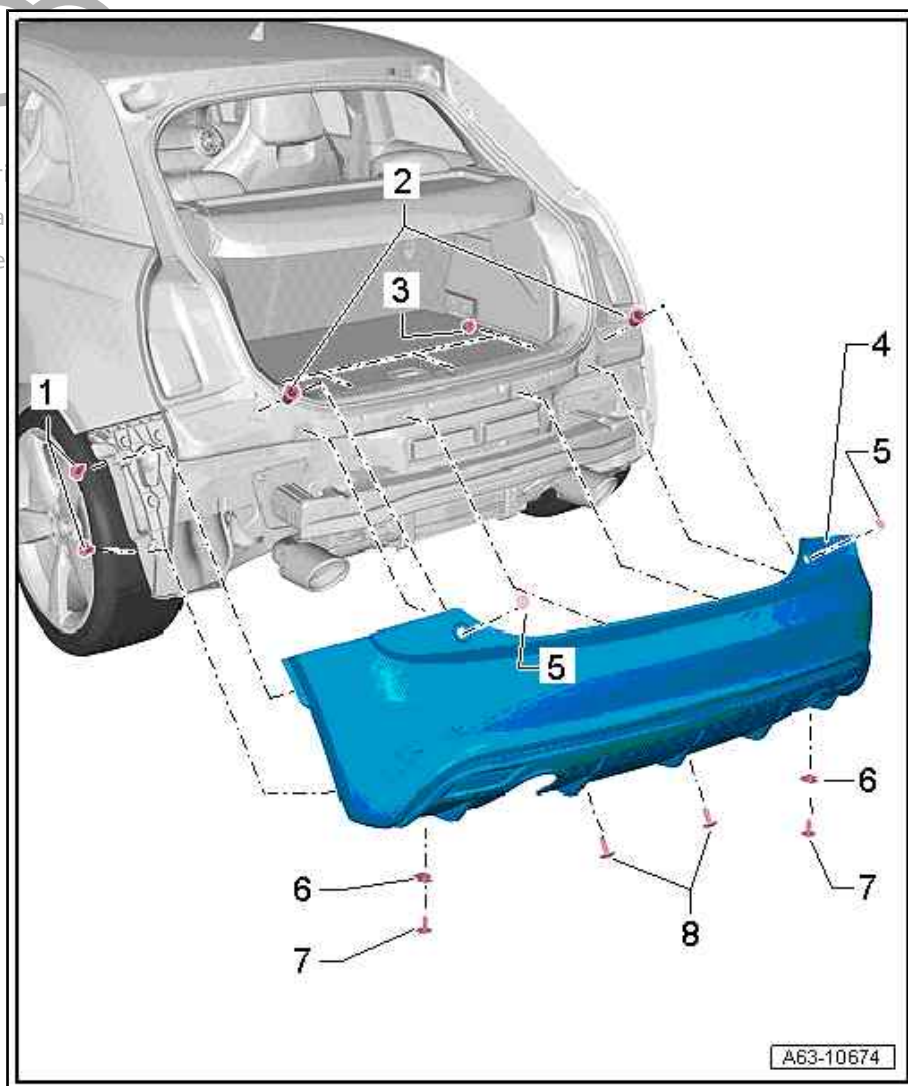
Special tools and workshop equipment required

- ◆ Socket - T40078 -





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Removing

- Remove rear cross panel trim ⇒ General body repairs, interior; Rep. gr. 70 ; Luggage compartment trim panels; Removing and installing lock carrier trim .
- Unplug electrical connector at parking aid wiring harness.
- Remove bolts -1-, -5-, -7- and -8-.
- Unscrew nuts -3- from inside.
- Detach side sections ⇒ [page 178](#) .

Installing

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



Note

When installing, first tighten the two outer nuts and then tighten the inner nuts (to torque).

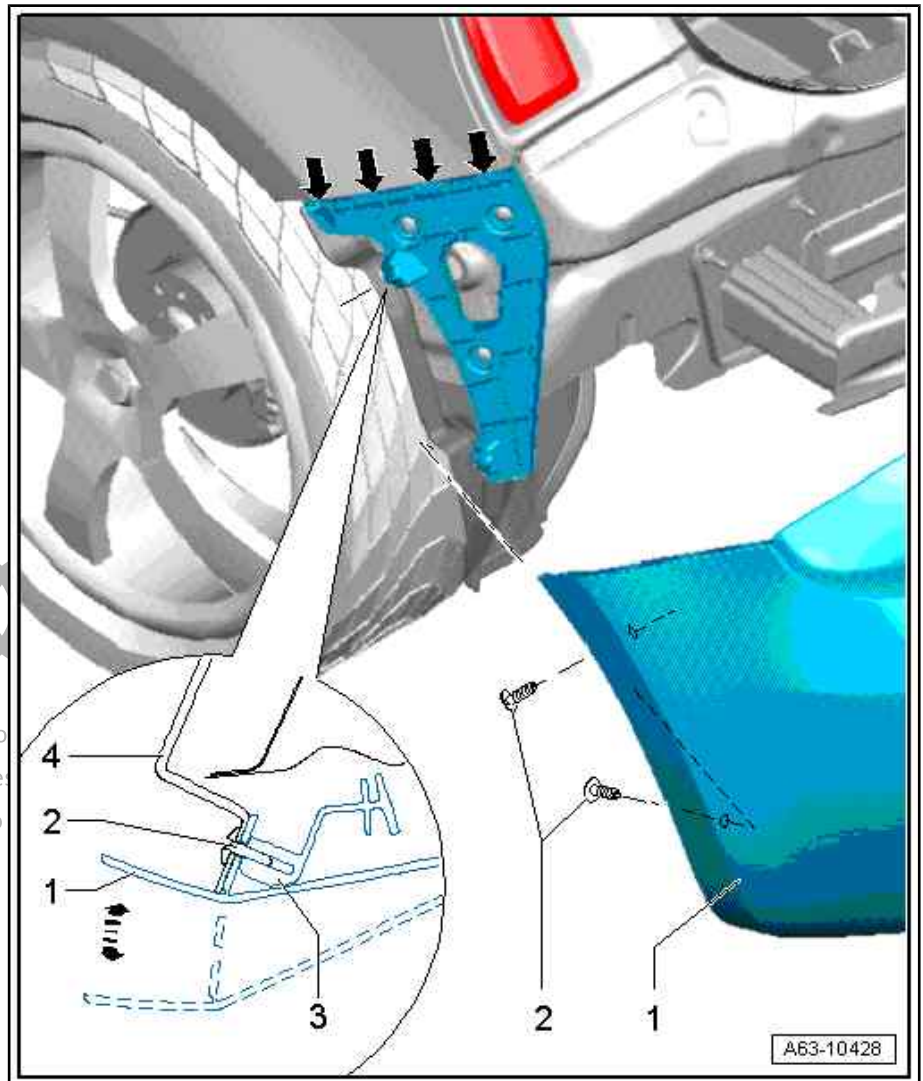
Tightening torques

- ◆ ⇒ [“2.1.3 Exploded view - bumper cover, Audi A1 quattro”, page 172](#)

Unclipping side sections of bumper cover



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- Unscrew bolts -2- from wheel housing liner -4-.
- Bend open side sections -1- of bumper cover at side over guide -3- and detach bumper cover towards rear.
- When installing, make sure that retaining hooks engage completely in guide -arrows-.



2.4 Removing and installing attachments

⇒ [“2.4.1 Removing and installing guide for bumper cover”, page 180](#)

⇒ [“2.4.2 Removing and installing reflector - Audi S1 and vehicles from model year 2015 onwards”, page 180](#)

⇒ [“2.4.3 Removing and installing spoiler for bumper cover”, page 181](#)

⇒ [“2.4.4 Removing and installing spoiler for bumper cover - Audi S1 and vehicles from model year 2015 onwards”, page 181](#)

2.4.1 Removing and installing guide for bumper cover

Removing

- Remove bumper cover (rear) ⇒ [page 175](#) .
- Remove bolts -3-.
- Detach guide -2-.

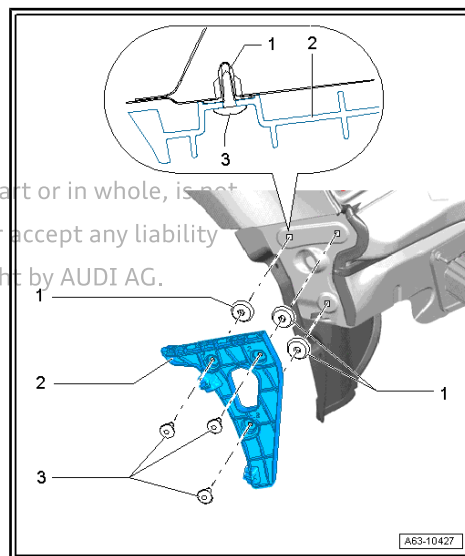
Installing

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

- Renew expanding nuts -1- if damaged.

Tightening torques

- ♦ ⇒ [“2.1 Exploded view - bumper cover”, page 170](#)



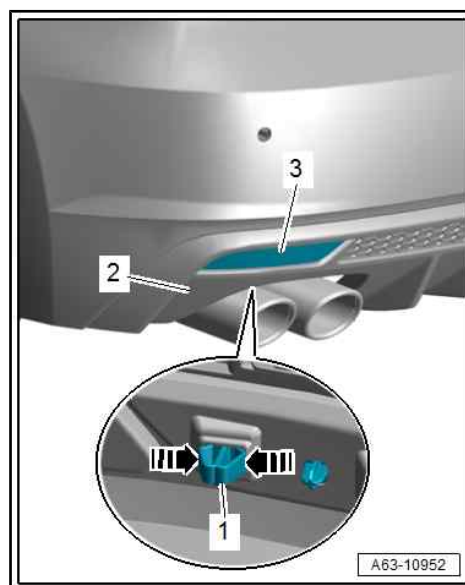
2.4.2 Removing and installing reflector - Audi S1 and vehicles from model year 2015 onwards

Removing

- Release fasteners -1- -arrows-.
- Press reflector -3- out of bumper cover -2-.

Installing

Installation is carried out in reverse sequence.





2.4.3 Removing and installing spoiler for bumper cover

Removing

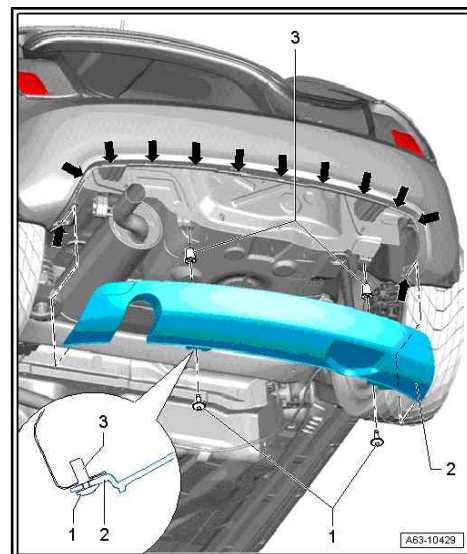
- Remove bumper cover ⇒ [page 175](#) .
- Release clips -arrows- in bumper cover one after the other and take out spoiler.

Installing

Installation is carried out in reverse sequence.

Tightening torques

- ◆ ⇒ [“2.1.1 Exploded view - bumper cover, vehicles up to model year 2014”, page 170](#)



2.4.4 Removing and installing spoiler for bumper cover - Audi S1 and vehicles from model year 2015 onwards

Removing

- Remove bolts -4, 5-.
- Release fasteners -arrows-.
- Pull spoiler -3- off bumper cover -1-.

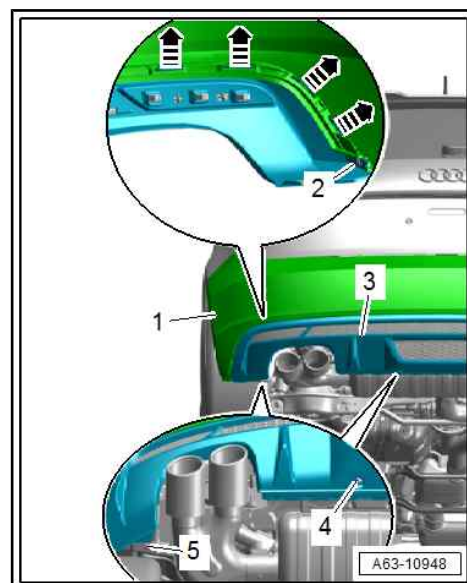
Installing

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

- When fitting spoiler, make sure that mounting -2- engages in guide on bumper cover.

Tightening torques

- ◆ ⇒ [“2.1.4 Exploded view - bumper cover, Audi S1”, page 173](#)





64 – Glazing

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Repair notes

⇒ **"1.1 Minimum drying times for bonded windows", page 182**

⇒ **"1.2 Repairing windows", page 182**

⇒ **"1.3 Notes on installing flush-bonded windows", page 183**

⇒ **"1.4 Preparing undamaged windows for installation",
page 186**

⇒ **"1.5 Preparing new windows for installation", page 186**

⇒ **"1.6 Preparing body flange for installation", page 188**

⇒ **"1.7 Cleaning off adhesive sealant", page 188**

⇒ **"1.8 Re-sealing windows", page 189**

1.1 Minimum drying times for bonded windows



WARNING

- ◆ *For safety reasons, only use non-conductive 2-component adhesive with the designations listed below when installing windscreen and rear window.*
- ◆ *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	Minimum drying time (in hours)
Windscreen	With airbag	2-component window adhesive set - D 004 660 M2-	2
Rear window		2-component window adhesive set - 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-



i Note

- ◆ *Windscreens damaged by stone chipping can be repaired using windscreen repair kit - VAS 6092- and resin, Talon - VAS 1993/2-.*

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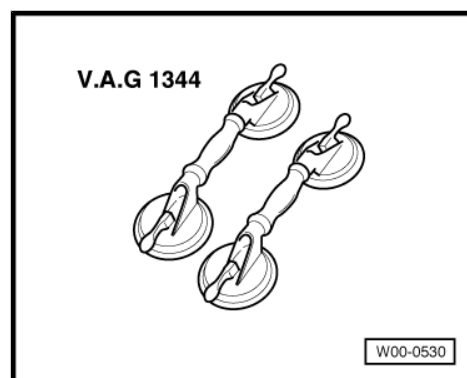
- ◆ *The damaged areas must not exceed a certain size and area, and must not be within the main field of vision.*

- ◆ *For detailed information, refer to the instructions supplied with each kit.*

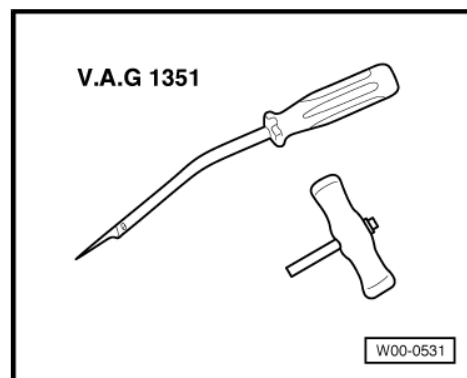
1.3 Notes on installing flush-bonded windows

Special tools and workshop equipment required

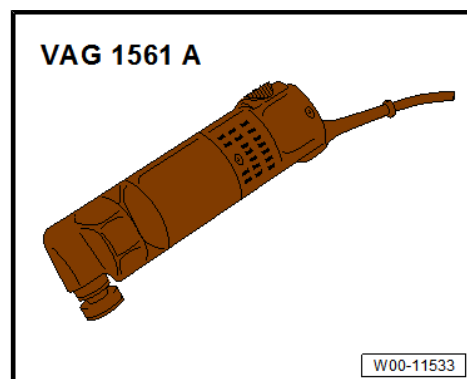
- ◆ Suction lifters - V.A.G 1344-



- ◆ Cutting tool - V.A.G 1351-



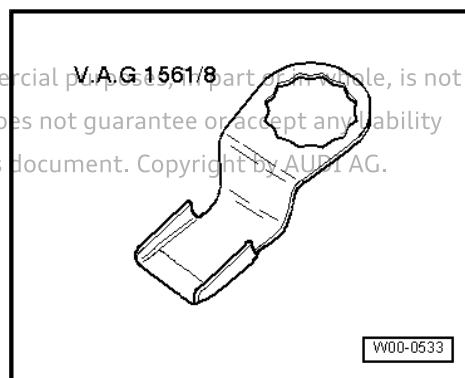
- ◆ Pull handle - V.A.G 1351/1-
- ◆ Electric cutter - V.A.G 1561A-



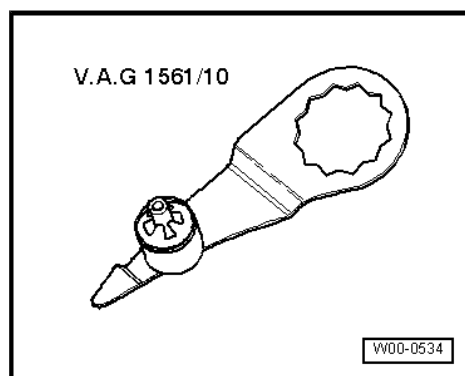


◆ Scraper (15 + 25 mm) - V.A.G 1561/7+8-

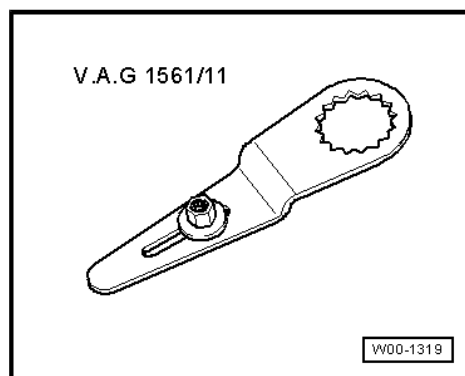
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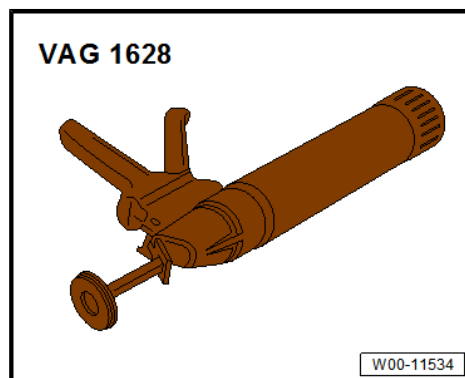
◆ Blade, offset - V.A.G 1561/10-



◆ Universal blade - V.A.G 1561/11-

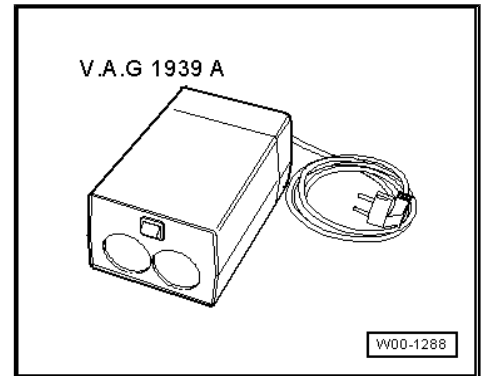


◆ Hand-cartridge gun - V.A.G 1628-

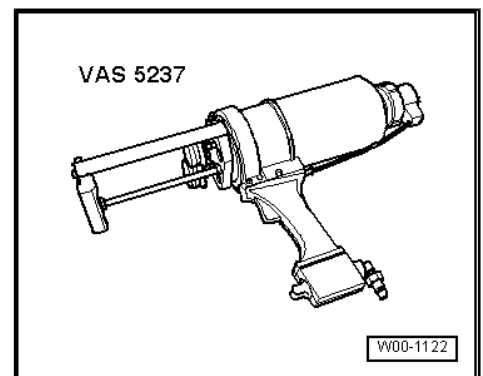




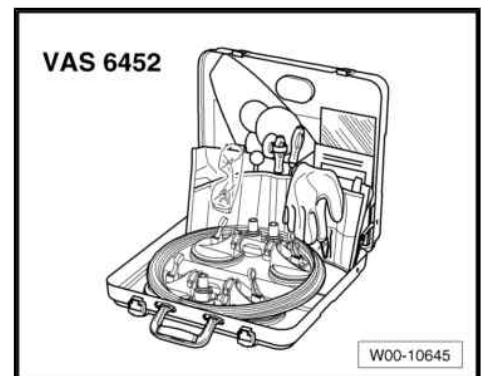
- ◆ Cartridge heater - V.A.G 1939A-



- ◆ Double cartridge gun - VAS 5237-



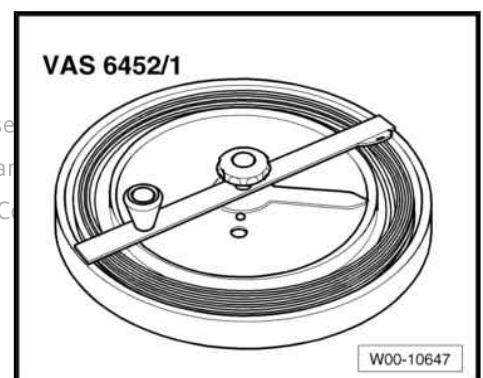
- ◆ Removal kit for flush bonded windows - VAS 6452-



- ◆ Wire reel - VAS 6452/1-



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

Materials

- ◆ 2-component window adhesive set - D 004 660 M2- ⁴⁾
- ◆ 1-component window adhesive - DH 009 100 03- ⁷⁾



- ◆ 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 cord - 357 853 999-

4) Note minimum drying time ⇒ [page 182](#) .

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

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

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

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1.4 Preparing undamaged windows for installation

- 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 material serves as a bonding surface when applying the new adhesive sealing material.



Caution

- ◆ ***Bonding surface must be free of dirt and grease.***
- ◆ ***Do not trim bonding surface until shortly before installation.***
- ◆ ***Do not apply primer to bonding surface and do not use cleaning solution.***

1.5 Preparing new windows for installation

- Clean all around bonding surface with cleaning solution - D 009 401 04- .
- Wipe clean surface with a dry, lint-free paper towel.
- Apply glass/paint primer - D 009 200 02- as described in the following.



WARNING

- *The ceramic coating on new windows is not a primer.*
- *The glass must always be primed before applying adhesive sealant.*
- *The glass/paint primer is conductive and must not come into contact with the bus bar, e.g. of the rear window heating.*

Applying primer:

- Use applicator -2- to apply glass/paint primer -3- evenly and in one movement onto window -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

Applying adhesive

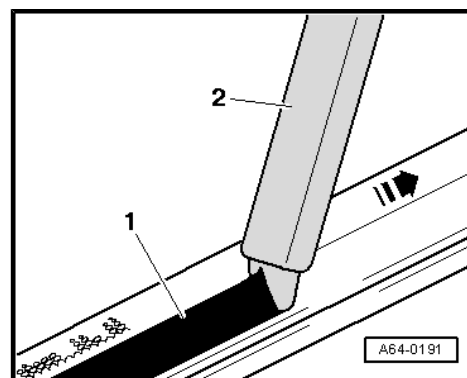
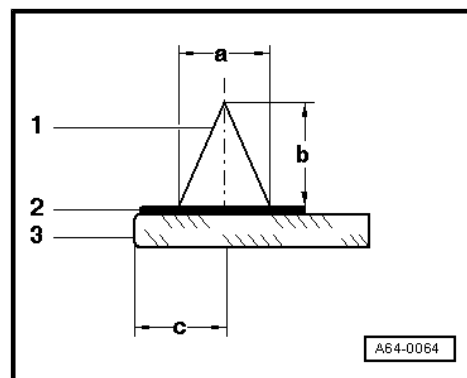
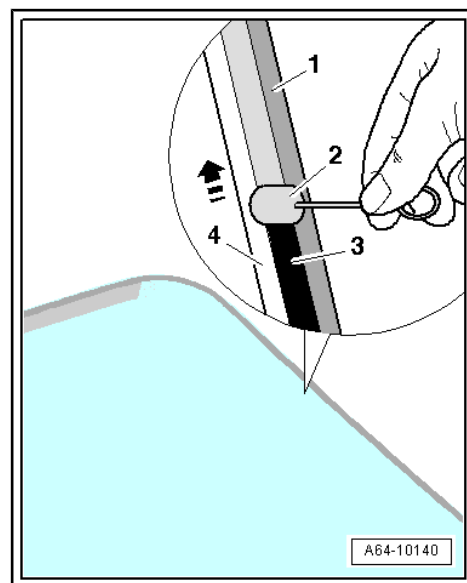


Note

The cross-section of the adhesive bead is determined by the size of the applicator 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
- Dimension -b- = 12 mm
- Dimension -c-: note different distances from edge of windscreen/window. Windscreen ⇒ [Item 2 \(page 190\)](#) ; distances for side window are predetermined by moulding or remaining bead; rear window ⇒ [Item 2 \(page 190\)](#) .
- Apply full surface of nozzle -2- to glass.
- Direction of application -arrow- for adhesive bead -1-.



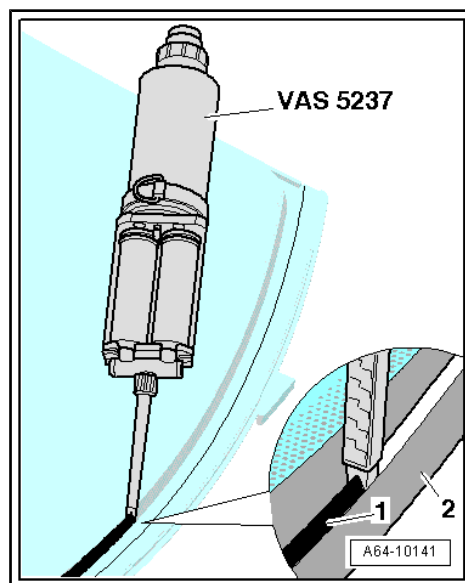


- Apply adhesive sealant -1- all around glass -2-, as shown.
- Install windscreen glass in windscreen opening using two suction lifters.



Caution

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



1.6 Preparing body flange for installation



WARNING

Bonding surface must be free of dirt and grease.

- Shortly before installing the window, cut back the remaining adhesive sealant on the body flange with a carpet knife, but do not remove it completely.



Note

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

- If window flange has been damaged, repaired or renewed, 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- .

1.7 Cleaning off adhesive sealant

We recommend using adhesive remover - D 002 000 10- for cleaning. Observe safety precautions when handling.



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.

1.8 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.



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2 Windscreen

⇒ "2.1 Exploded view - windscreen", page 190

⇒ "2.2 Removing and installing windscreen", page 191

2.1 Exploded view - windscreen

1 - Windscreen

- ☐ Distance from roof: Dimension -a- = 2.5 mm
- ☐ Align side dimension -c-.

2 - Adhesive bead

- ☐ Note minimum drying time ⇒ [page 182](#).
- Dimension -b- = 16 mm ± 2 mm
- Dimension -d- = 14 mm ± 2 mm
- Dimension -e- = 10 mm ± 2 mm

3 - Plenum chamber cover

- ☐ Allow minimum drying time for glass adhesive to elapse before pressing component into retaining strip.

4 - Surround for plenum chamber cover

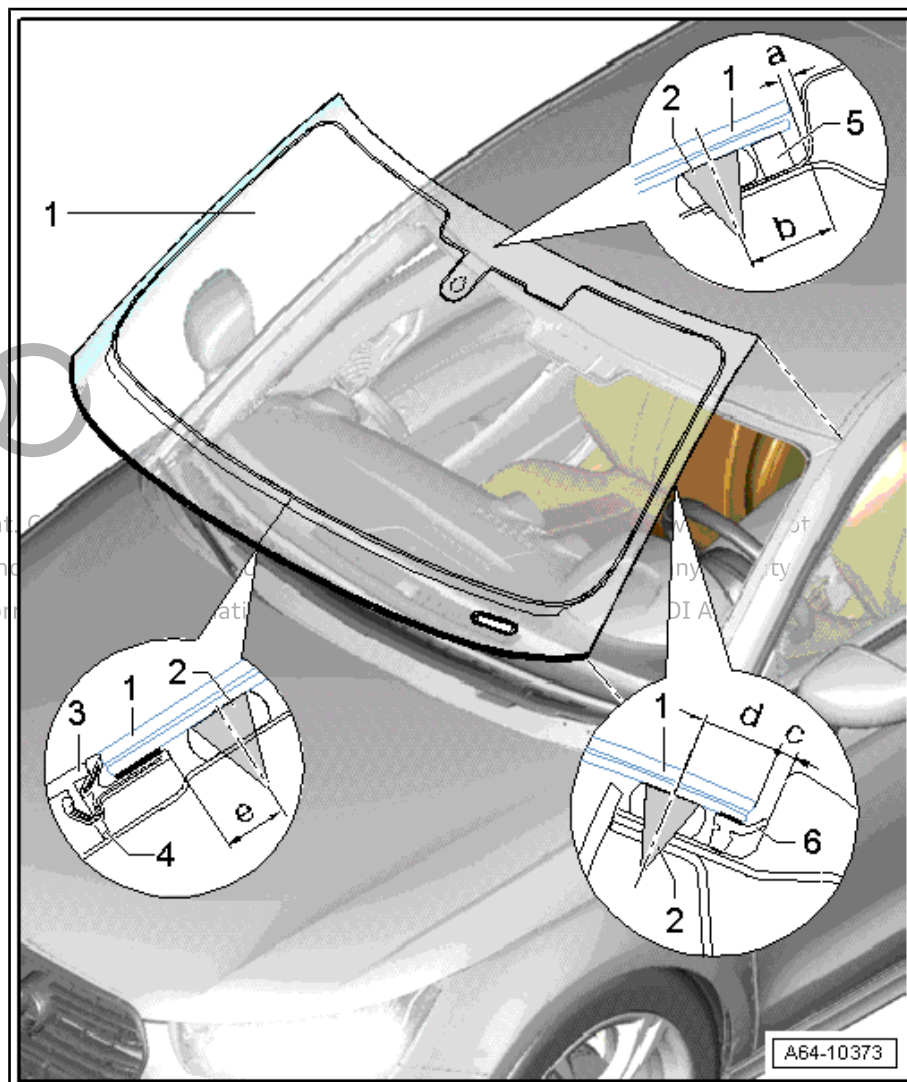
- ☐ Not available as replacement part
- ☐ With a new windscreen, the protective beading must be pulled out before fitting the plenum chamber cover.

5 - Adhesive stopper strip

- ☐ Supplied with new windscreen
- ☐ Renewing ⇒ [page 195](#)

6 - Windscreen surround

- ☐ Supplied with new windscreen
- ☐ Renewing ⇒ [page 195](#)





2.2 Removing and installing windscreen

⇒ ["2.2.1 Removing and installing windscreen", page 191](#)

⇒ ["2.2.2 Renewing adhesive stopper strip", page 195](#)

⇒ ["2.2.3 Renewing windscreen surround", page 195](#)

⇒ ["2.2.4 Removing protective beading", page 196](#)

2.2.1 Removing and installing windscreen

Removing

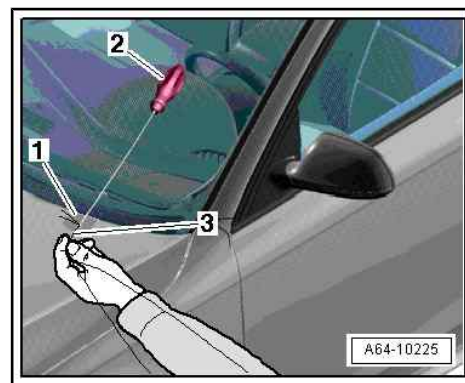
- Remove wiper arms ⇒ Electrical system; Rep. gr. 92 ; Windscreen wiper system; Removing and installing wiper arms .
- Remove plenum chamber cover ⇒ [page 16](#) .
- Remove sun visor (left and right) ⇒ General body repairs, interior; Rep. gr. 68 ; Equipment; Removing and installing sun visor .
- Remove 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 6.50 metres of cutting wire (corresponding to 6 turns) and cut off.
- Mask over body flange with adhesive tape -1- to avoid damage where awl 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.

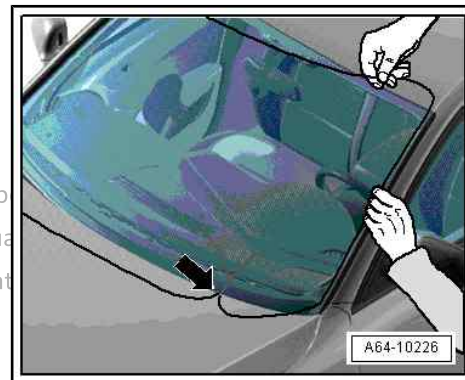


- Position cutting wire under glass all around windscreen, as shown.



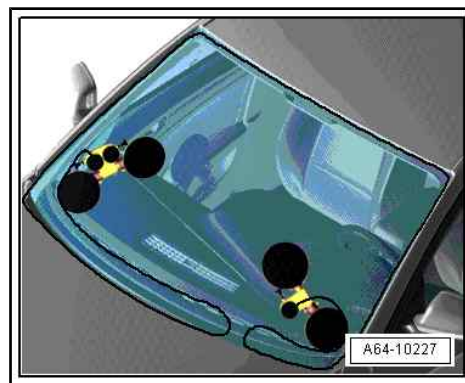
Caution

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

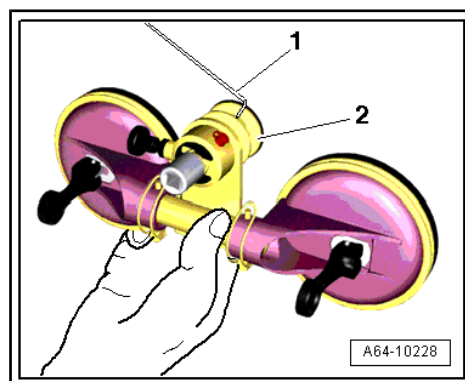




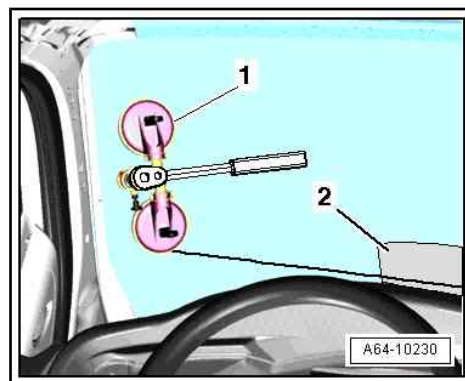
- Attach both reels to inside of glass, as shown.



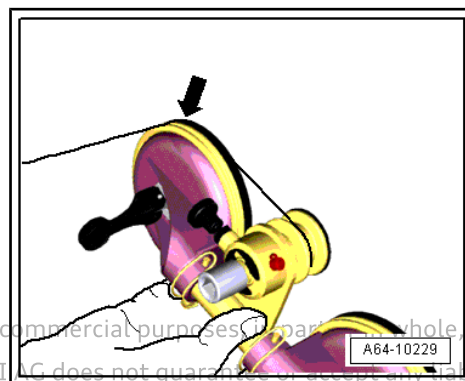
- Insert end of cutting wire -1- into reel -2-.



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



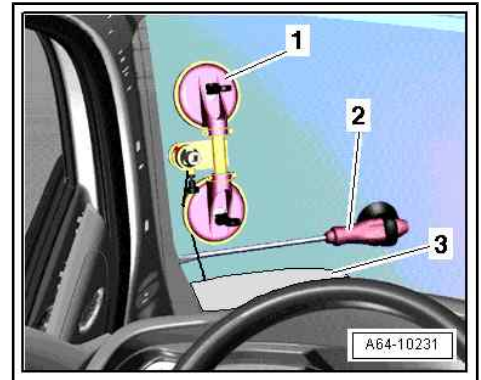
- Cut clear the first area. While doing so, wire is guided into integrated idler pulley -arrow- on reel.



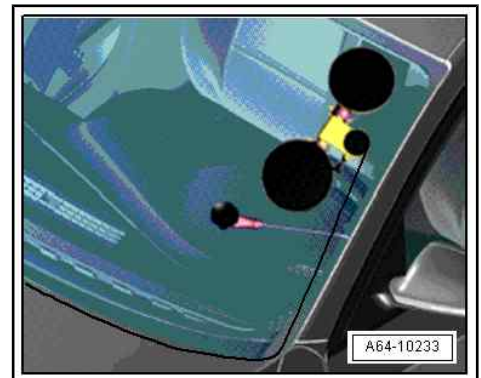
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- Additionally insert guide awl -2- into adhesive bead, as shown, and attach it to windscreen using suction pad so that wire runs along windscreen as close to the glass as possible.
- Adjust protective film -3- as necessary with length of wire and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

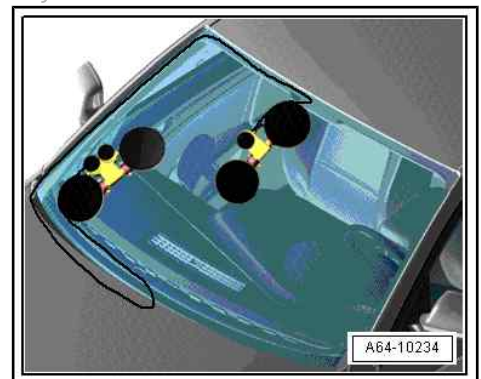
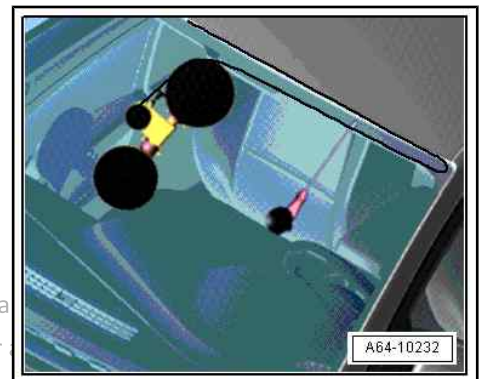


- Cut windscreen clear approx. to centre.



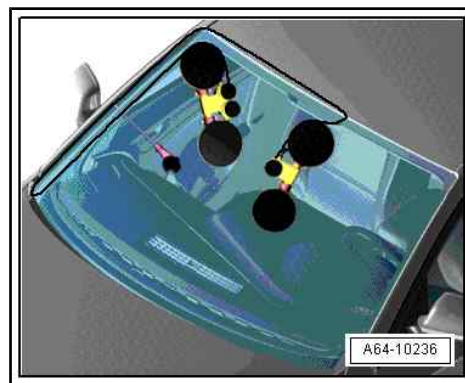
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- Use second reel to cut bottom area of windscreen clear.

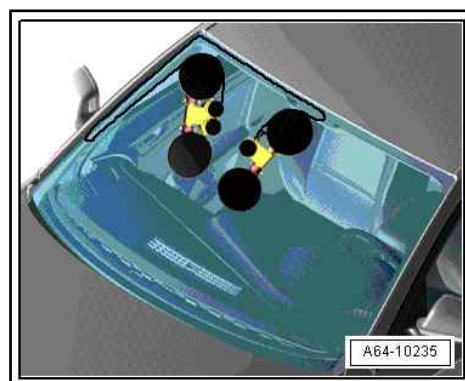




- Move reel up and insert guide awl, as shown.



- Cut windscreen clear upwards along A-pillar.



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

Installing

- Fitting instructions ⇒ [page 183](#)
- Prepare new glass for installation ⇒ [page 186](#) .
- Prepare undamaged glass for installation ⇒ [page 186](#) .
- Prepare body flange for installation ⇒ [page 188](#) .
- Using two suction lifters, insert windscreen in opening and align centrally.



- Distance from edge of windscreen to roof frame ⇒ [Item 1 \(page 190\)](#)
- Secure windscreen to roof at top with adhesive tape.
- Note minimum drying time ⇒ [page 182](#) .



Note

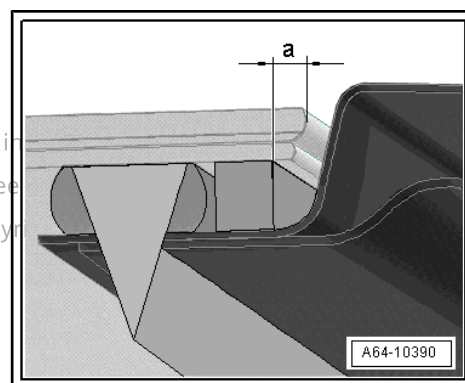
When installing a new replacement windscreen, the protective beading in the surround at the bottom of the windscreen must be removed before installing the plenum chamber cover
⇒ [page 196](#) .



2.2.2 Renewing adhesive stopper strip

Procedure

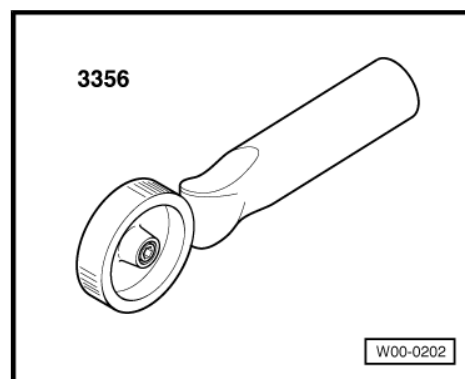
- Completely remove any residual adhesive, clean bonding surface with cleaning solution - D 009 401 04- and prime with glass/paint primer - D 009 200 02- .
- Peel off protective film and bond on strip with distance -a- = 3 mm from edge of windscreen.



2.2.3 Renewing windscreen surround

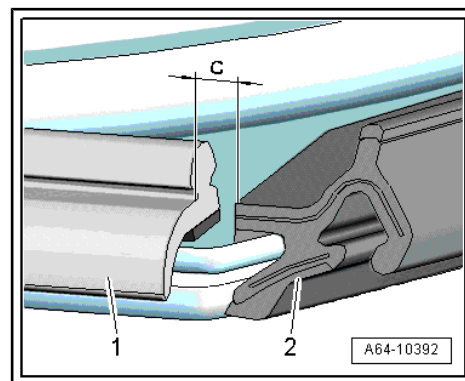
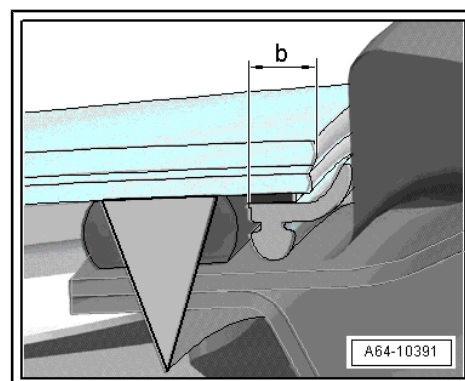
Special tools and workshop equipment required

- ◆ Roller - 3356-



Procedure

- Pull surround off windscreen.
- Completely remove any residual adhesive, clean bonding surface with cleaning solution - D 009 401 04- and prime bonding surface with glass/paint primer - D 009 200 02- .
- Peel off protective film and bond on windscreen surround with distance -b- = 6 mm from edge of windscreen.
- Starting at surround for plenum chamber cover (bottom) -2-, bond on windscreen surround -1- upwards, observing distance -c- = 2.5 mm.
- Press on bonded windscreen surround sections using roller - 3356- .

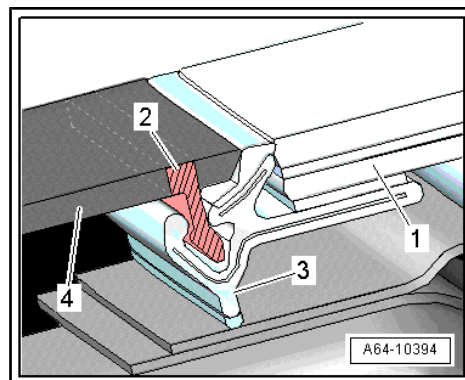




2.2.4 Removing protective beading

Procedure

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



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3 Side windows

⇒ "3.1 Exploded view - rear side window", page 197

⇒ "3.2 Removing and installing rear side window", page 198

3.1 Exploded view - rear side window

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1 - Side window

- ☐ Removing and installing
⇒ page 198
- ☐ When installing a new window, first press locating pin into D-pillar, then press window fully into window opening.
- ☐ If a removed window is to be reinstalled, it must be fixed in position with adhesive tape at C-pillar and D-pillar.

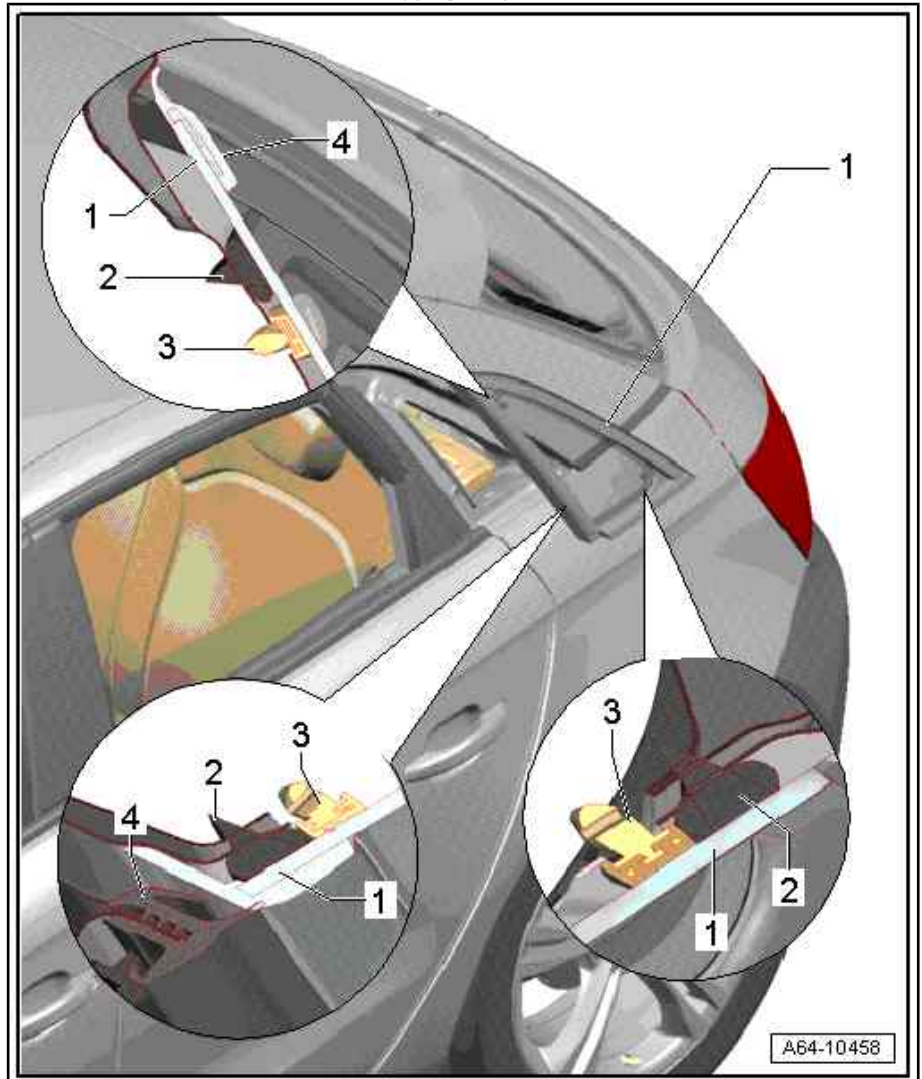
2 - Adhesive bead

3 - Locating pin

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

4 - Window surround

- ☐ Not available as replacement part
- ☐ Visible area must not be damaged.





3.2 Removing and installing rear side window

⇒ "3.2.1 Removing undamaged side window", page 198

⇒ "3.2.2 Removing damaged side window", page 198

⇒ "3.2.3 Installing side window", page 199

3.2.1 Removing undamaged side window

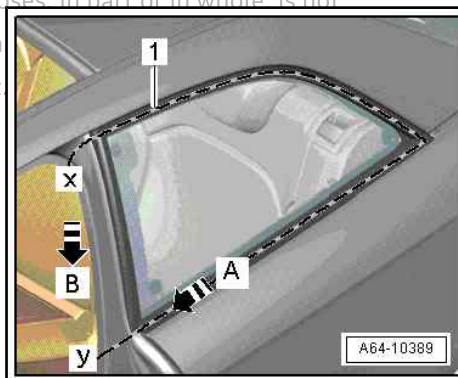


Caution

- ◆ Use adhesive tape to protect paintwork of side panel and roof in cutting area.
- ◆ Protect trim panel for B-pillar on vehicles with 2 doors/trim panel for C-pillar on vehicles with 4 doors with adhesive strip to prevent damage.
- ◆ On inside of vehicle, insert protective film between trim panel and cutting cord in area of cutting cord to prevent damage.

- Route cutting cord -1- around side window as shown in illustration.

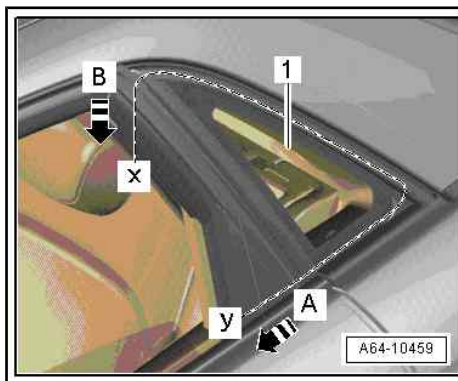
Side window (vehicles with 2 doors):



Side window (vehicles with 4 doors):

All versions (continued):

- Secure ends X and Y in two pull handles of cutting tool - V.A.G 1351- .
- Using a gentle sawing motion, pull cutting cord to 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 cord downwards in direction of -arrow B- through adhesive bead.
- Take window out of window opening.



3.2.2 Removing damaged side window

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



WARNING

Always wear safety goggles and leather gloves when removing window.

- Insert protective film (e.g. from removal kit for flush bonded windows - VAS 6452-) between trim sections and remaining fragments of glass.
- 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).

3.2.3 Installing side window

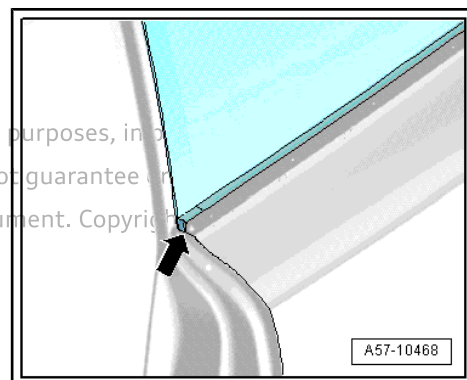
- Fitting instructions ⇒ [page 183](#)
- Prepare new glass for installation ⇒ [page 186](#) .
- Prepare undamaged glass for installation ⇒ [page 186](#) .
- Prepare body flange for installation ⇒ [page 188](#) .



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 C-pillar, then insert in window opening and secure with adhesive tape in area of B-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).
- Press roof trim strip and side trim strip (bottom) into clips on side panel, centralising window.
- Install door seal at B-pillar.
- Note minimum drying time ⇒ [page 182](#) .





4 Rear window

⇒ "4.1 Exploded view - rear window", page 200

⇒ "4.2 Removing and installing rear window", page 200

4.1 Exploded view - rear window

1 - Rear window

- ❑ Removing and installing
⇒ page 200

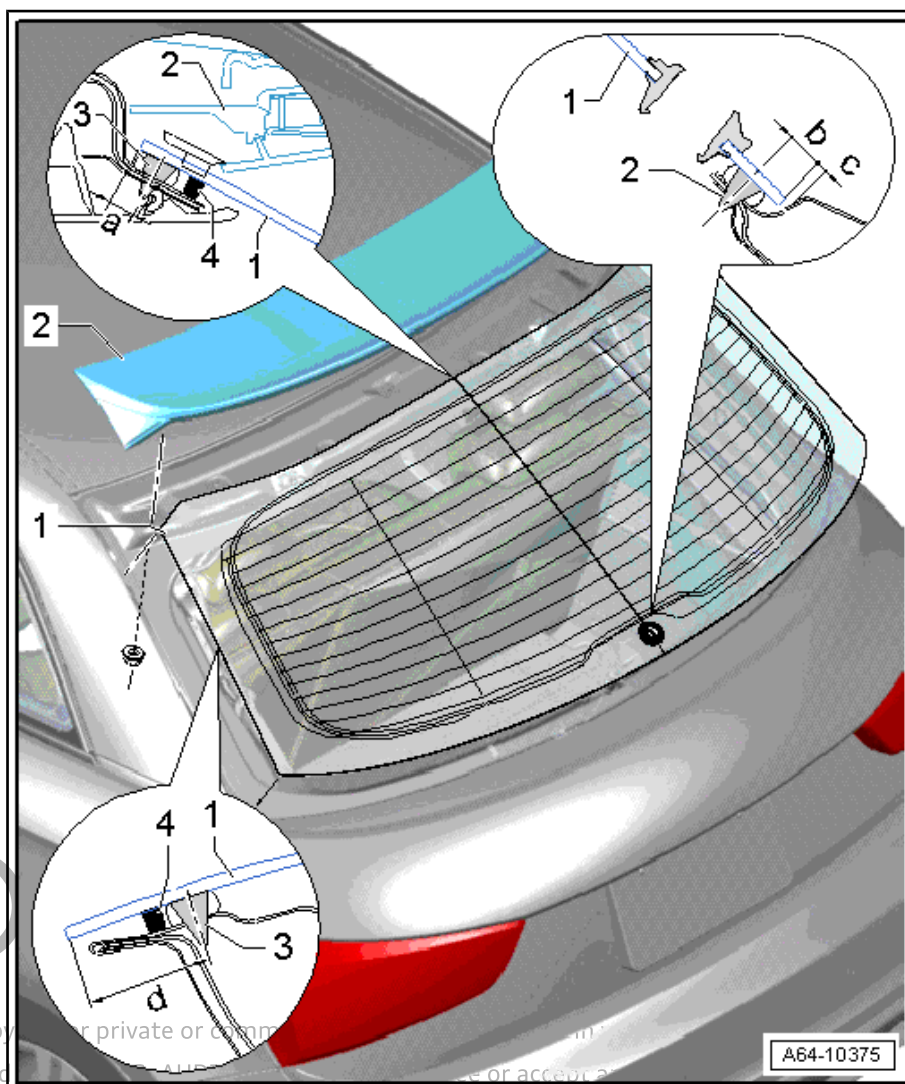
2 - Roof spoiler

- ❑ Exploded view
⇒ page 213

3 - Adhesive bead

- Width of bead =
8 mm ± 2 mm
- Height of bead
= 12 mm + 2 mm
- ❑ Distances from edge of
window:
- ◆ Dimension -a- = 8 mm
- ◆ Dimension -b- = 11 mm
- ◆ Dimension -c- = 2.2 mm
- ◆ Dimension -d- = 33 mm

4 - Spacers



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4.2 Removing and installing rear window

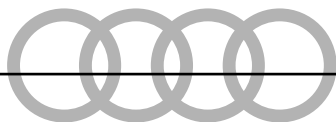
⇒ "4.2.1 Removing and installing undamaged rear window", page 200

⇒ "4.2.2 Removing damaged rear window", page 204

⇒ "4.2.3 Installing rear window", page 205

4.2.1 Removing and installing undamaged rear window

- Remove C-pillar trim ⇒ General body repairs, interior; Rep. gr. 70 ; Passenger compartment trim panels; Removing and installing C-pillar trim .
- Remove spoiler ⇒ page 214 .



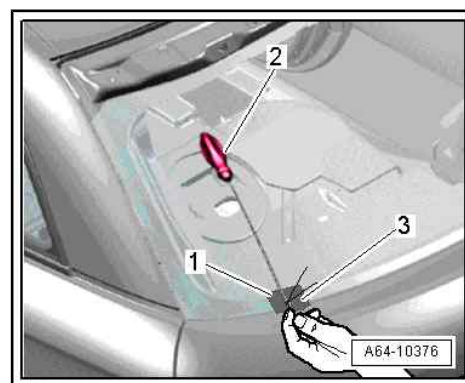
- Unplug electrical connectors for heated rear window and window aerial, move towards centre of window and secure with adhesive tape.



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.
- Pierce adhesive bead from inside to outside with awl -2-, as shown.
- Mask over body flange with adhesive tape -1- to avoid damage where awl is pushed through at the bottom.
- Thread both ends of cutting wire -3- into awl and pull through to the inside.

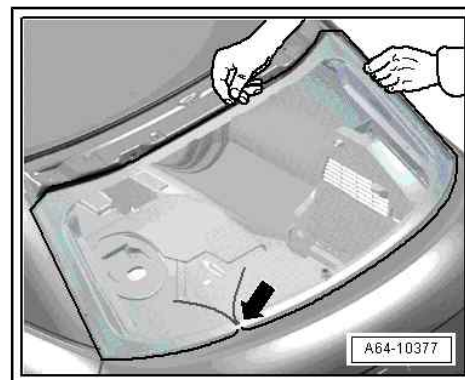


- Position cutting cord around rear window (under window), as shown.

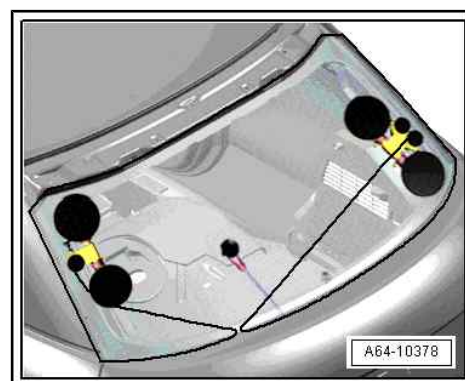


Caution

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

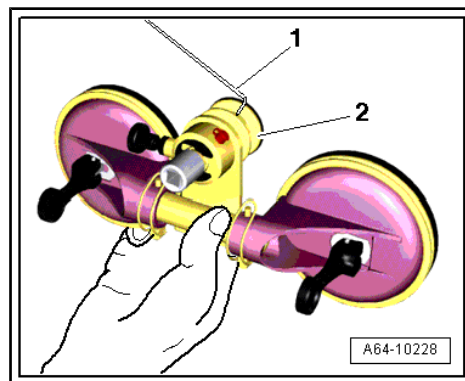


- Attach both reels to inside of glass, as shown.
- Additionally insert guide awl into the adhesive bead, as shown, and attach it to window using suction pad so that wire runs along window as close to the glass as possible.

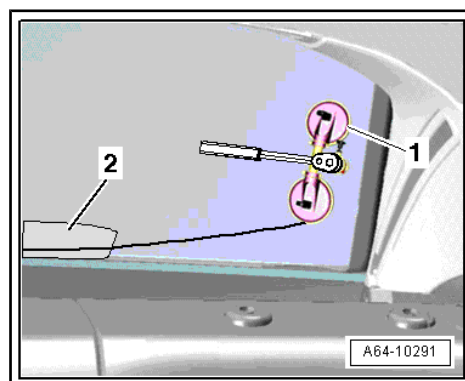




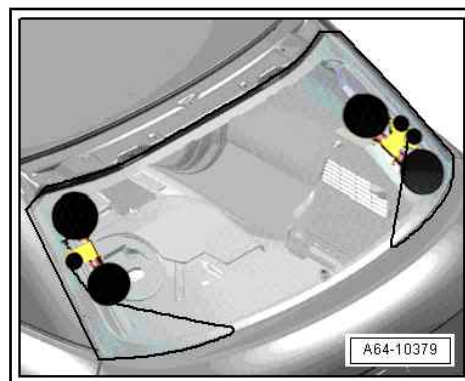
- Insert end of cutting wire -1- into reel -2-.



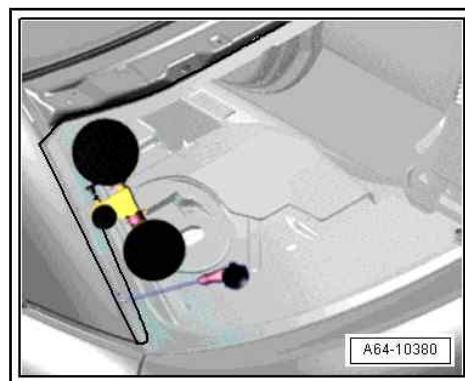
- Tension cutting wire with reel -1- and insert plastic film -2- from removal kit - VAS 6452- as protection between wire and rear shelf.



- Cut out first section of window glass at bottom.



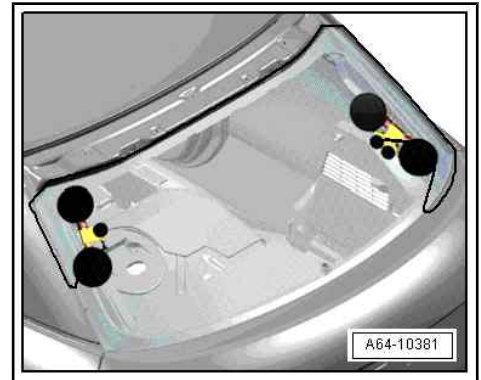
- Cut window glass clear at D-pillar (bottom).
- Position guideawl as shown and continue to cut window clear upwards at D-pillar.



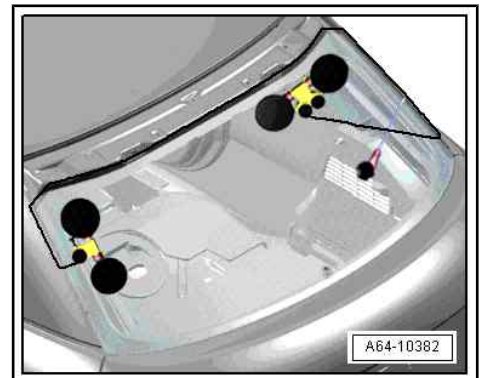
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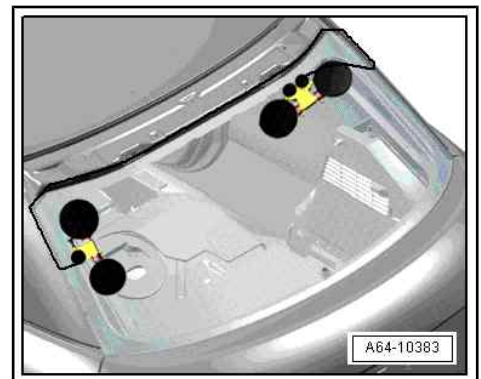
- Adjust reel and guide awl, as shown, and cut clear area at D-pillar (bottom) on opposite side.



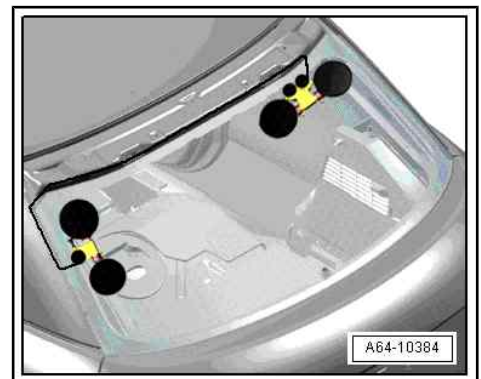
- Move reel up and apply guide awl.
- Cut out window towards top.



- Move reel as shown.



- Cut window clear at top right corner.

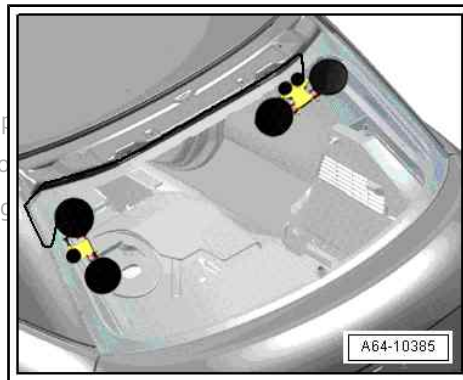


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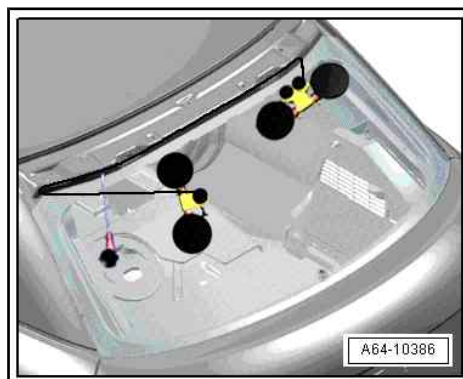


- Move reel to top left corner of window, as shown, and cut out window.

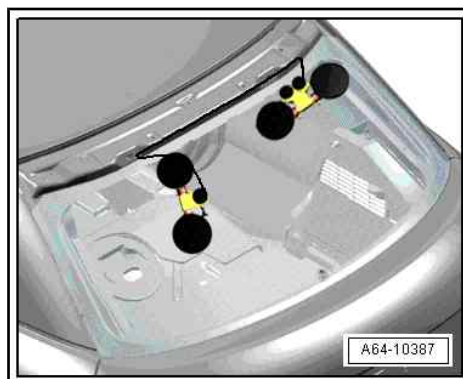
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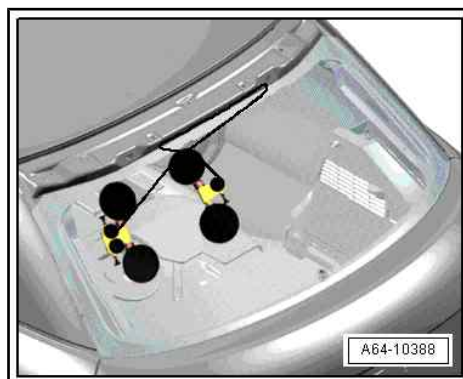
- Move left reel to approx. centre of window, as shown, and apply guide awl.



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



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



4.2.2 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 around 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).

4.2.3 Installing rear window

- Fitting instructions ⇒ [page 183](#)
- Prepare new glass for installation ⇒ [page 186](#) .
- Prepare undamaged glass for installation ⇒ [page 186](#) .
- Prepare body flange for installation ⇒ [page 188](#) .
- 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.*
- *The rear window must be fitted so it is aligned centrally relative to the rear window wiper shaft.*

- Align glass so that spacing is equal on both sides.
- Observe distance to top edge of rear lid = 2.5 mm.
- Minimum drying time ⇒ [page 182](#)



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5 Door windows

⇒ ["5.1 Exploded view - front door window", page 206](#)

⇒ ["5.2 Exploded view - rear door window", page 207](#)

⇒ ["5.3 Removing and installing front door window", page 208](#)

⇒ ["5.4 Removing and installing rear door window", page 209](#)

5.1 Exploded view - front door window

1 - Door

2 - Window regulator

☐ Installed

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

3 - Door window

4 - Nut

☐ 6 Nm

5 - Bolt

☐ 3.5 Nm

6 - Window regulator motor

7 - Cover

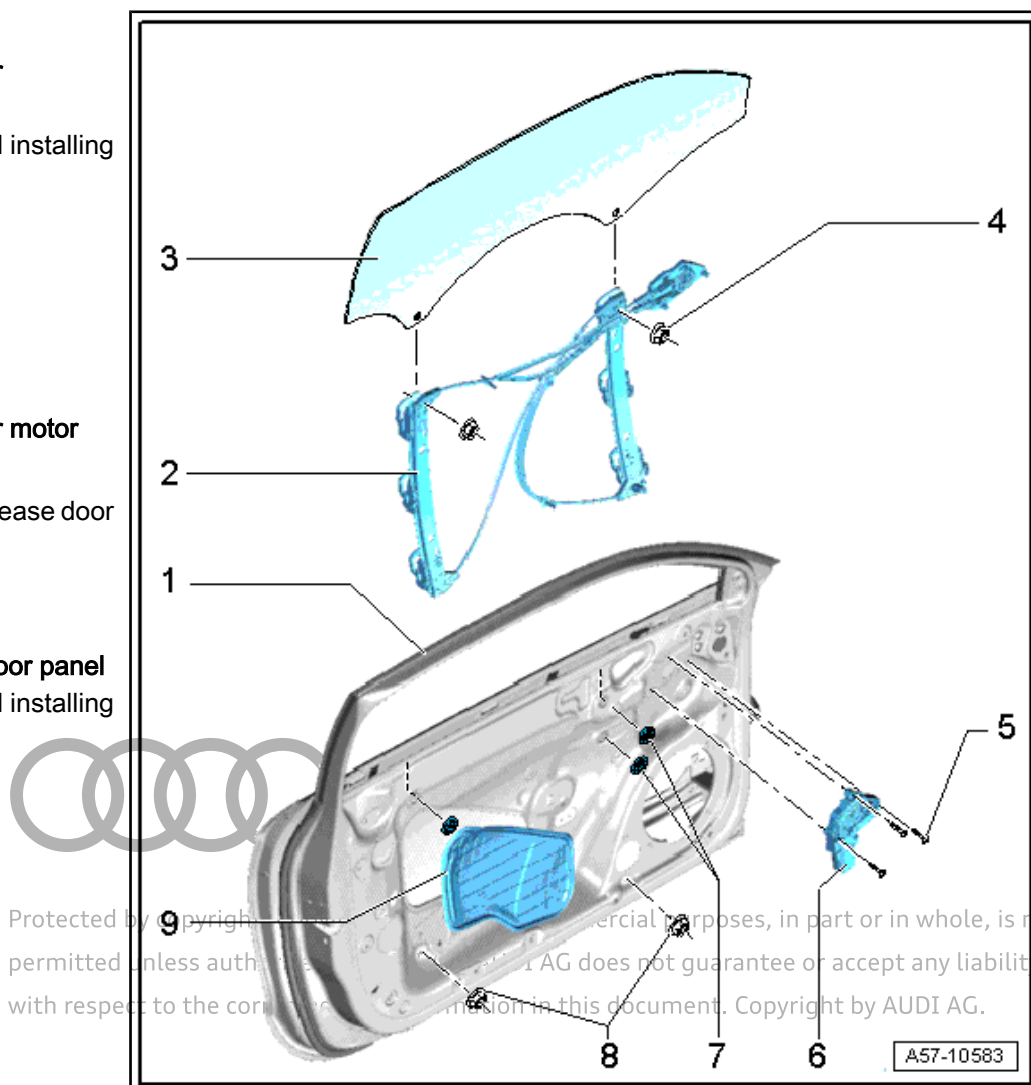
☐ Prise out to release door
window

8 - Nut

☐ 6 Nm

9 - Cover for inner door panel

☐ Removing and installing
⇒ [page 77](#)





5.2 Exploded view - rear door window

1 - Door window

- ☐ Removing and installing
⇒ [page 209](#)

2 - Window regulator

- ☐ Window regulator re-
mains installed in door.

3 - Door

4 - Nut

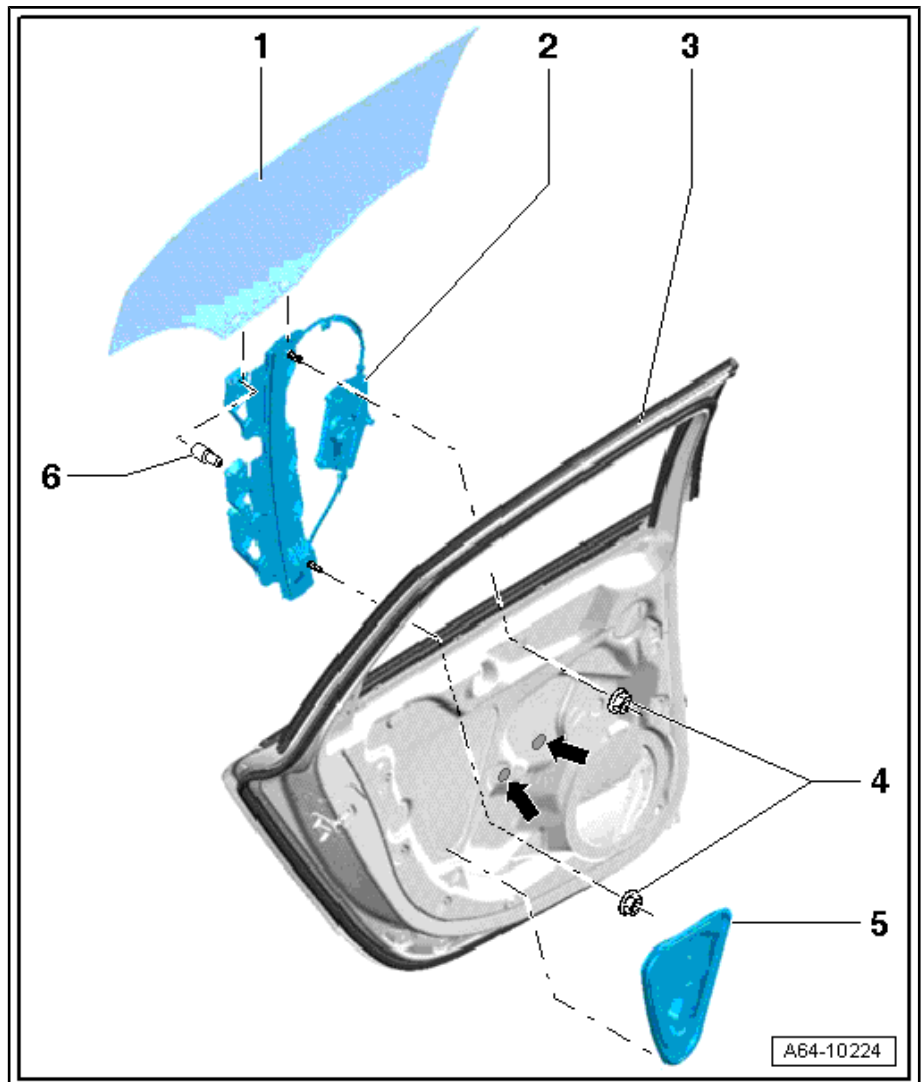
- ☐ 6 Nm

5 - Cover

- ☐ Installed

6 - Stud

- ☐ Two parts, with locking
pin
- ☐ Studs can be re-instal-
led.



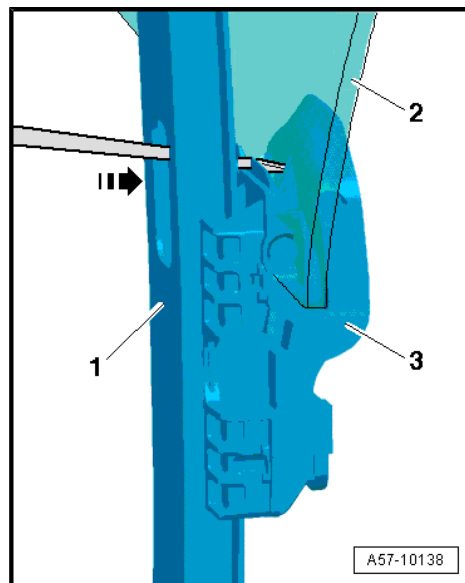
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5.3 Removing and installing front door window

Removing

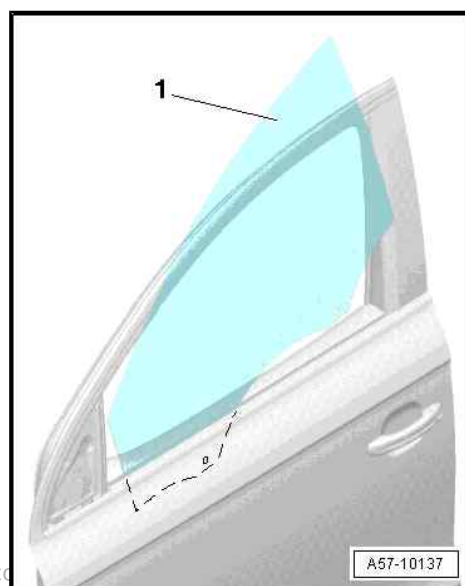
- Remove cover for inner door panel ⇒ [page 77](#) .
- Lower door window until recess becomes visible.
- Use screwdriver or similar tool to press actuator -3- outwards through opening in window guide -1- and hole in door window -2- in order to release actuator.
- Pull door window upwards out of actuator.
- Tilt door window diagonally forwards and pull it upwards out of window guide.



Installing

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

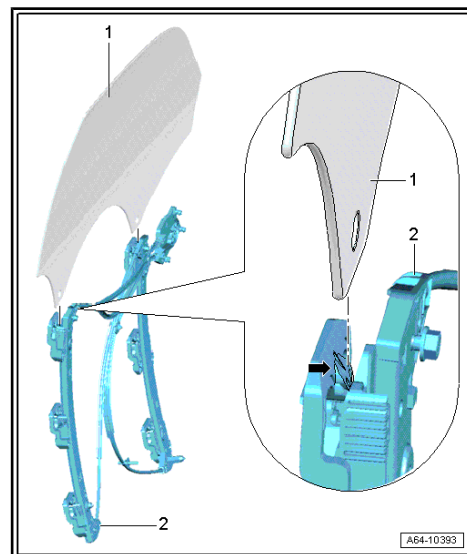
- Fit door window -1- in window guide of door, inserting it diagonally towards front of vehicle.
- Align door window in window guides at front and rear and push window downwards.



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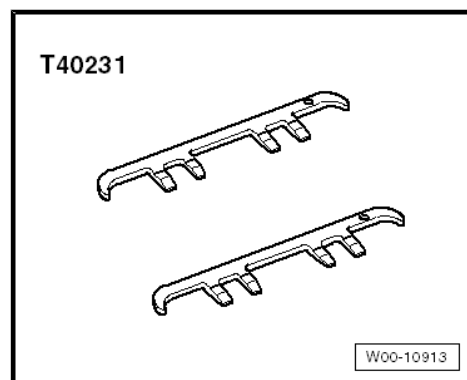
- Press door window -1- down into actuators -2- until it engages audibly.



5.4 Removing and installing rear door window

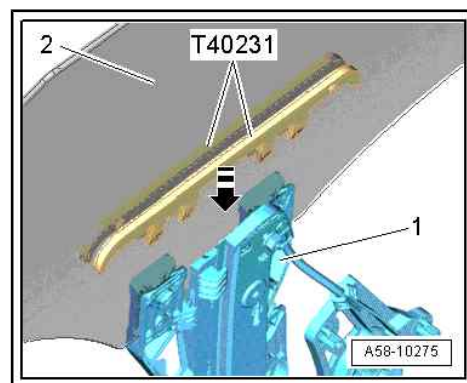
Special tools and workshop equipment required

- ◆ Use removal tool - T40231- for standard glass.



Removing

- Remove inner window slot trim strip ⇒ [page 105](#) .
- Remove cover for inner door panel ⇒ [page 111](#) .
- Lower door window until mounting becomes visible.
- Insert removal tool - T40231- on both sides of door window -2- and press downwards at mounting for window regulator -1- -arrow-.
- This will bend open mounting at window regulator so that door window with retaining pins can be lifted out.
- Pull door window upwards out of mounting and lift out of door.



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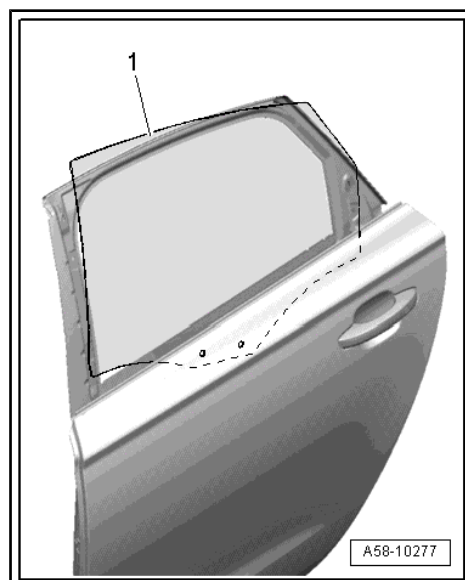
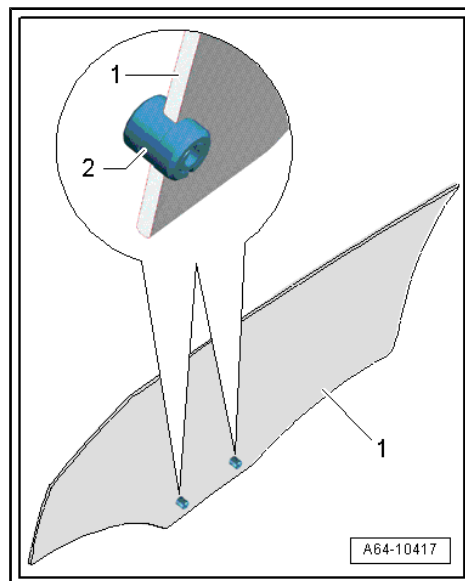
Installing



Note

When installing new standard-glass door windows, the retaining pins must be pressed in first.

- Insert retaining pins -2- centrally in door window -1- and press locking pin in until it is flush.
- Fit door window -1- in window guide of door, inserting it diagonally towards rear of vehicle.
- Align door window in window guides and slide window downwards; make sure door window moves exactly into mounting at front and rear.
- Press door window down into mounting of window regulator.
- Retaining pins then engage audibly in mounting.





66 – Exterior equipment

1 Radiator grille/front trim panel

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1.1 Removing and installing radiator grille

- Bumper cover removed [⇒ page 162](#)
- Unscrew bolts -2- on both sides.
- [⇒ "1.5.3 Removing and installing moulded foam insert", page 165](#)

Audi S1 and vehicles from model year 2015 onwards:

- [⇒ "1.5.12 Removing and installing air intake grille \(centre\) - Audi S1 and vehicles from model year 2015 onwards", page 169](#)

All vehicles (continued):

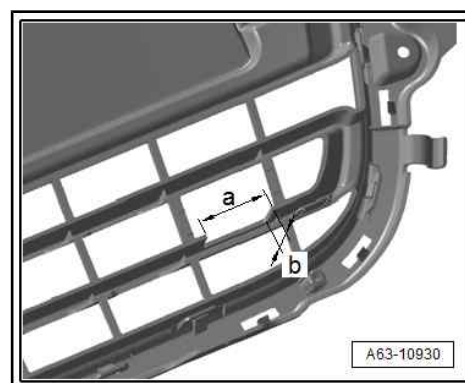
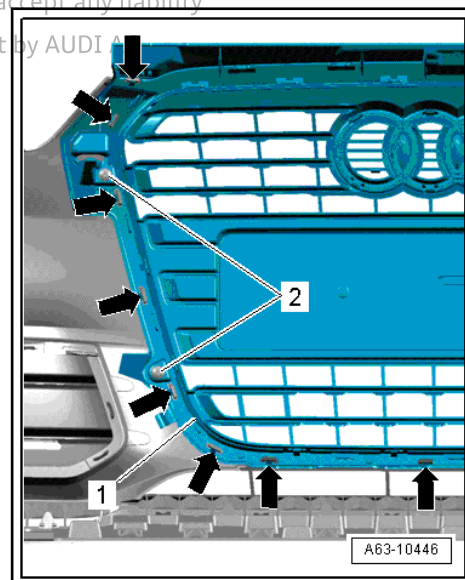
- Release clips all around one after the other and pull radiator grille inwards off bumper cover.

Making opening for parking aid senders

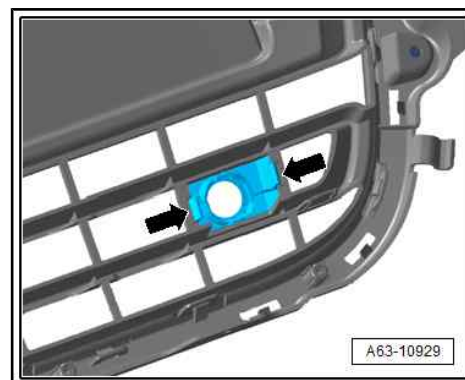


Note

- ◆ *Only radiator grilles for vehicles without parking aid senders are supplied.*
- ◆ *For vehicles with parking aid senders, the opening for the brackets must first be made.*
- Opening must be made centrally between supports.
- Make opening with dimensions a = 35 mm and b = 18 mm, as shown in illustration.

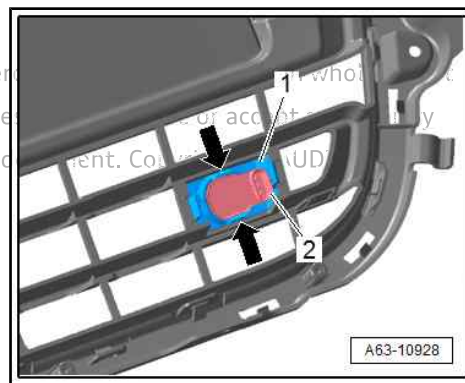


- Push bracket from front backwards into radiator grille.
- Retaining tabs -arrows- must engage.





- Push parking aid sender -2- forwards into bracket -1- from behind radiator grille.
- Parking aid sender must engage in bracket -arrows-.





2 Spoiler

⇒ "2.1 Exploded view - spoiler", page 213

⇒ "2.2 Removing and installing spoiler", page 214

2.1 Exploded view - spoiler

⇒ "2.1.1 Exploded view - spoiler, Audi A1 / S1", page 213

⇒ "2.1.2 Exploded view - spoiler, Audi A1 quattro", page 214

2.1.1 Exploded view - spoiler, Audi A1 / S1

1 - Roof spoiler

- Rear lid trim removed ⇒ General body repairs, interior; Rep. gr. 70 ; Luggage compartment trim panels; Removing and installing rear lid trim (top) .
- Unplug electrical connectors for aerial amplifier and brake light.
- Remove nuts -3-.
- Starting on one side and working gradually towards opposite side, unclip and detach spoiler.



Caution

Any parts of broken clips must be removed from rear lid.

2 - Threaded pin

- ☐ Insert into mounting on spoiler from the side

3 - Nut

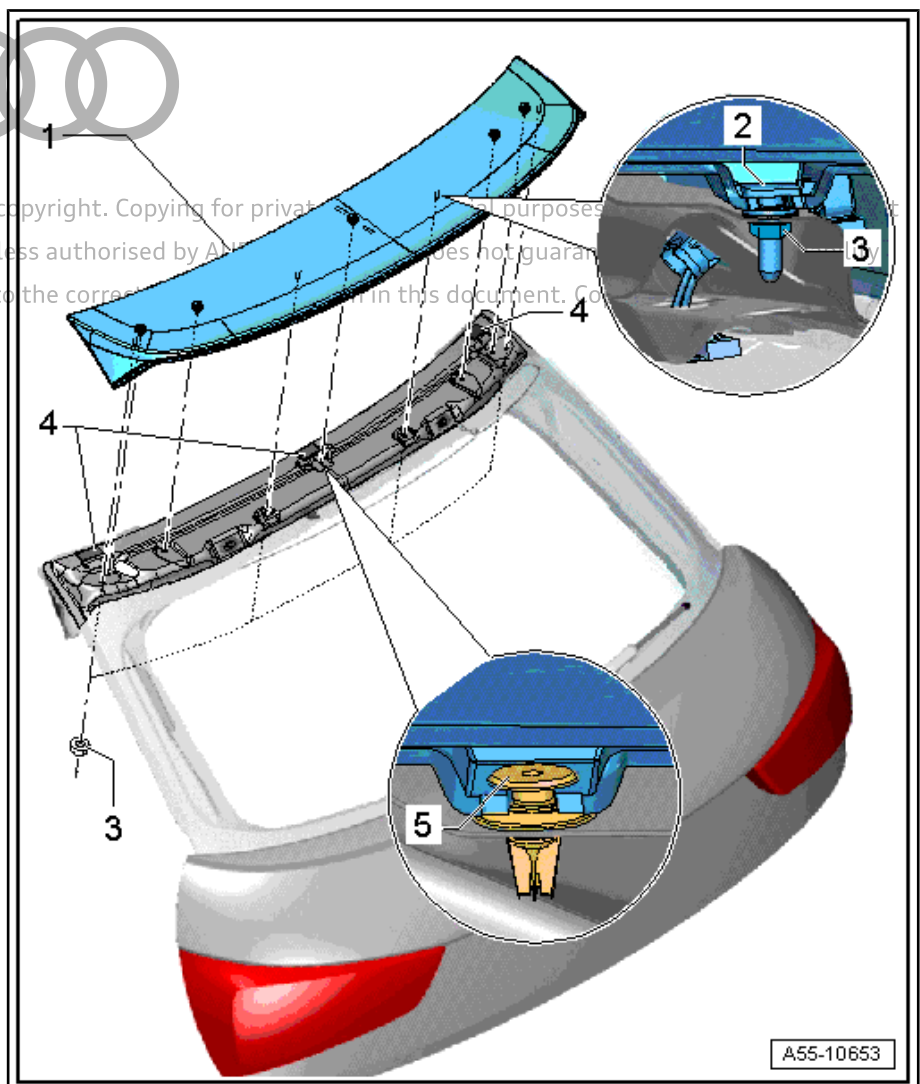
- ☐ 6 Nm

4 - Protective foil

- Bond protective foil (3x) onto front edge of lid.
- Between marks on both sides and in centre of lid

5 - Clip

- ☐ Insert into mounting on spoiler from the side





2.1.2 Exploded view - spoiler, Audi A1 quattro

1 - Spoiler

- ❑ Removing and installing
⇒ [page 215](#)

2 - Brake light

3 - Threaded pin

- ❑ Insert into mounting on spoiler from the side

4 - Foam seal

5 - Guide pin

- ❑ Insert into mounting on spoiler from the side

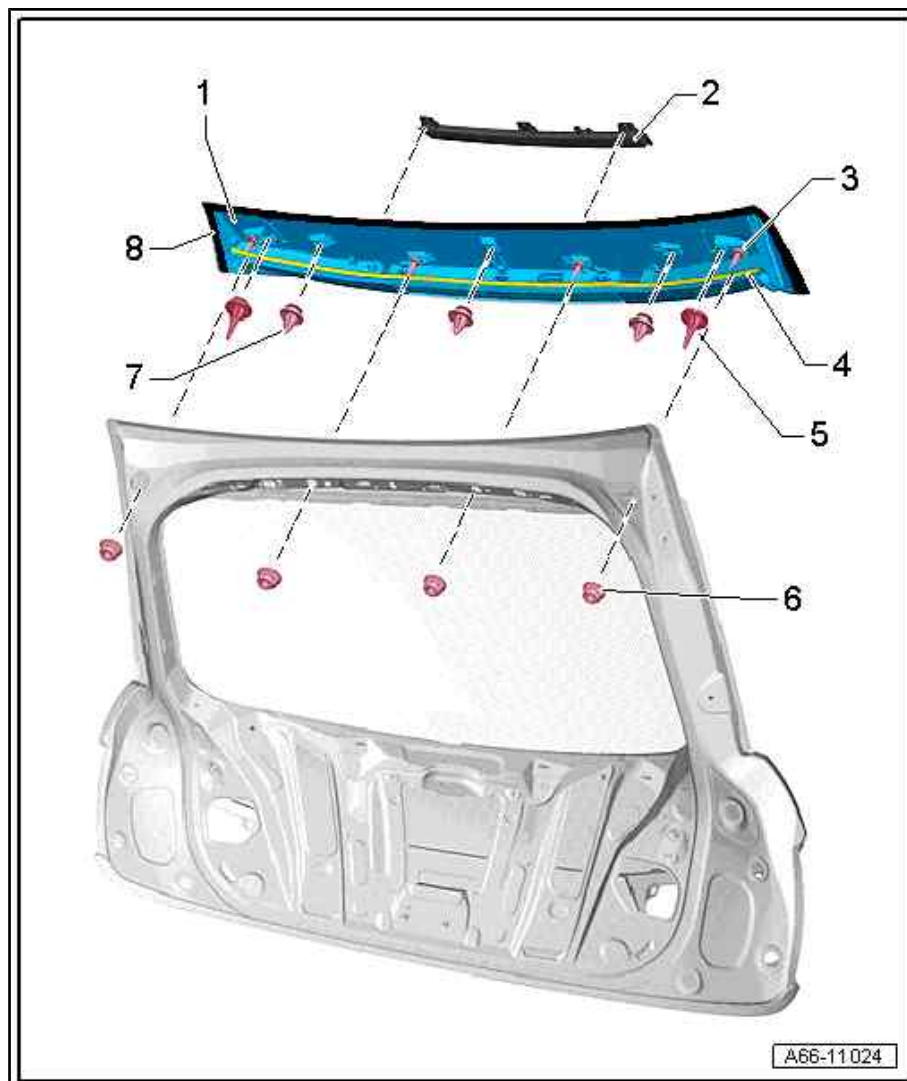
6 - Nut

- ❑ 4 Nm

7 - Clip

- ❑ Insert into mounting on spoiler from the side

8 - Bonded area



2.2 Removing and installing spoiler

⇒ ["2.2.1 Removing and installing trim cover for spoiler - Audi A1", page 214](#)

⇒ ["2.2.2 Removing and installing spoiler - Audi A1 quattro", page 215](#)

2.2.1 Removing and installing trim cover for spoiler - Audi A1



Note



New trim covers must be bonded on additionally during installation.

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- Remove double-sided adhesive tape -3-
- Remove any residual adhesive of double-sided adhesive tape.

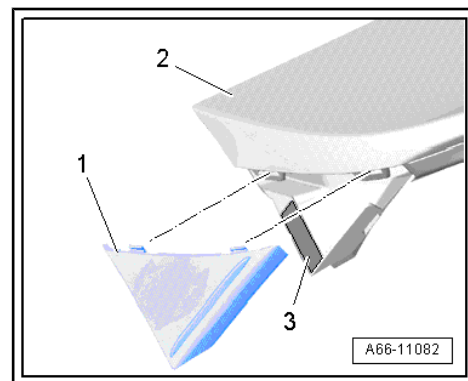
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Note

The bonding area for the 1-component window adhesive - DH 009 100 03- is the same as the position of the double-sided adhesive tape.

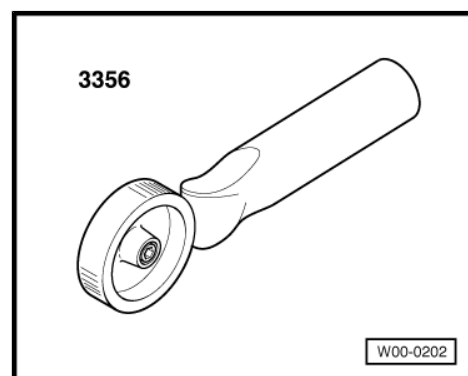
- Clean bonding area -3- on spoiler and on trim cover -1- with cleaning solution - D 009 401 04- .
- Apply plastic primer - D 181 650 A1- to bonding area on spoiler and on trim cover.
- Apply 1-component window adhesive - DH 009 100 A2- to bonding area -3- on spoiler.
- Insert trim cover in spoiler and secure in position with adhesive tape.
- Minimum drying time for adhesive: 3 hours.



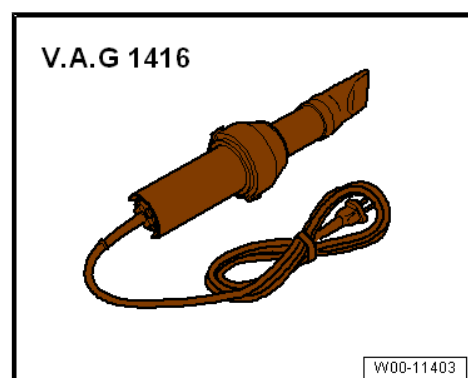
2.2.2 Removing and installing spoiler - Audi A1 quattro

Special tools and workshop equipment required

- ◆ Roller - 3356-

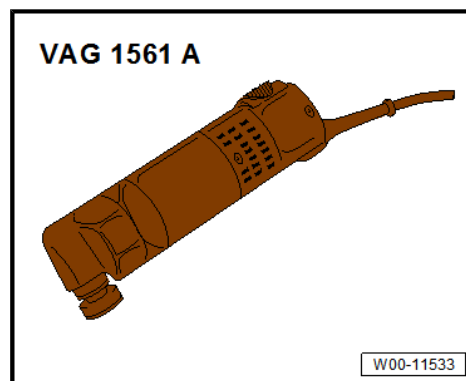


- ◆ Hot air blower - V.A.G 1416-

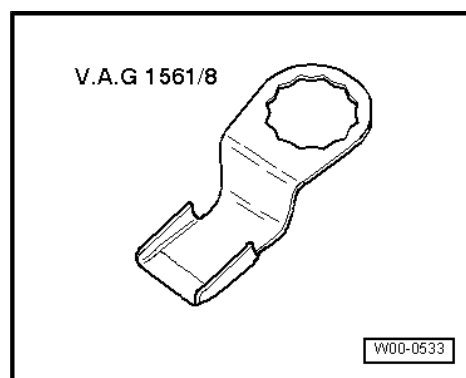




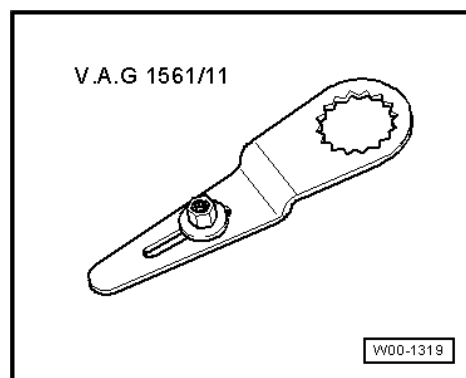
- ◆ Electric cutter - V.A.G 1561A-



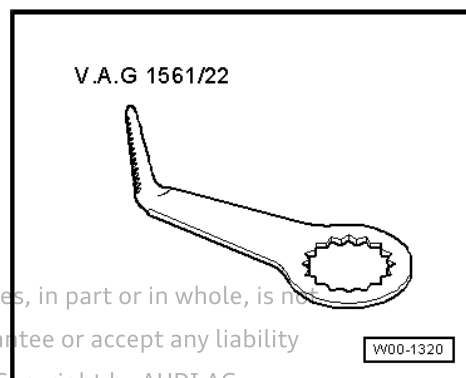
- ◆ Scraper (15 + 25 mm) - V.A.G 1561/7+8-



- ◆ Universal blade - V.A.G 1561/11-



- ◆ Blade (L-shaped, 25.4 mm) - V.A.G 1561/22-



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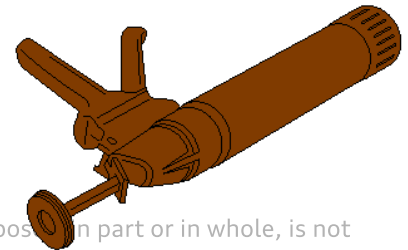


◆ Hand-cartridge gun - V.A.G 1628-

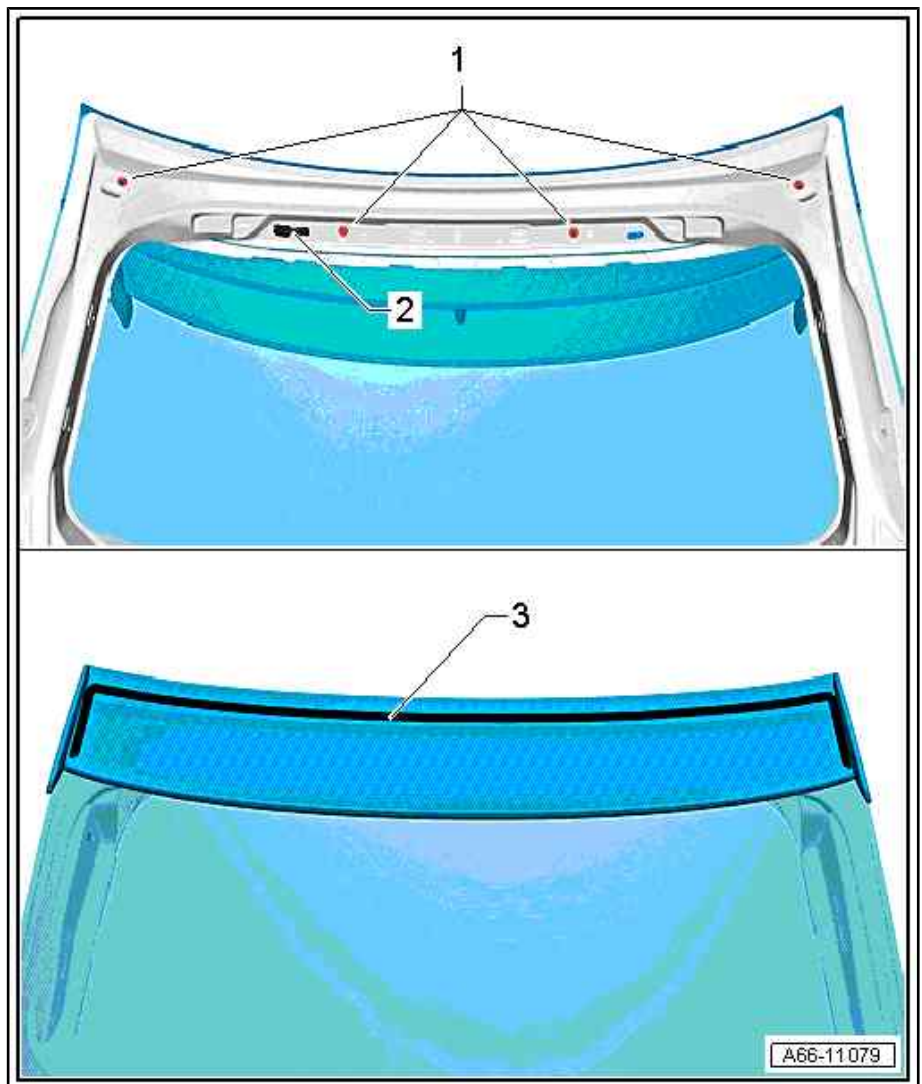


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VAG 1628



W00-11534



- Rear lid trim removed ⇒ General body repairs, interior; Rep. gr. 70 ; Luggage compartment trim panels; Removing and installing rear lid trim (top) .
- Unplug electrical connectors -2- for aerial amplifier and brake light.
- Remove nuts -1-.
- Cut through adhesive bead -3- with electric cutter - V.A.G 1561A- .



- Starting on one side and working gradually towards opposite side, unclip and detach roof spoiler.



Caution

Any parts of broken clips must be removed from rear lid.

Preparations before installing roof spoiler



Note

- ◆ *Just before re-installing an undamaged spoiler, use electric cutter - V.A.G 1561A- and scraper (25 mm) - V.A.G 1561/8- to cut back the remaining adhesive sealant for an even surface, but do not remove completely.*
- ◆ *The remaining sealant on the roof spoiler and the rear lid is required as a base for better adhesion of the new adhesive sealant.*



Caution

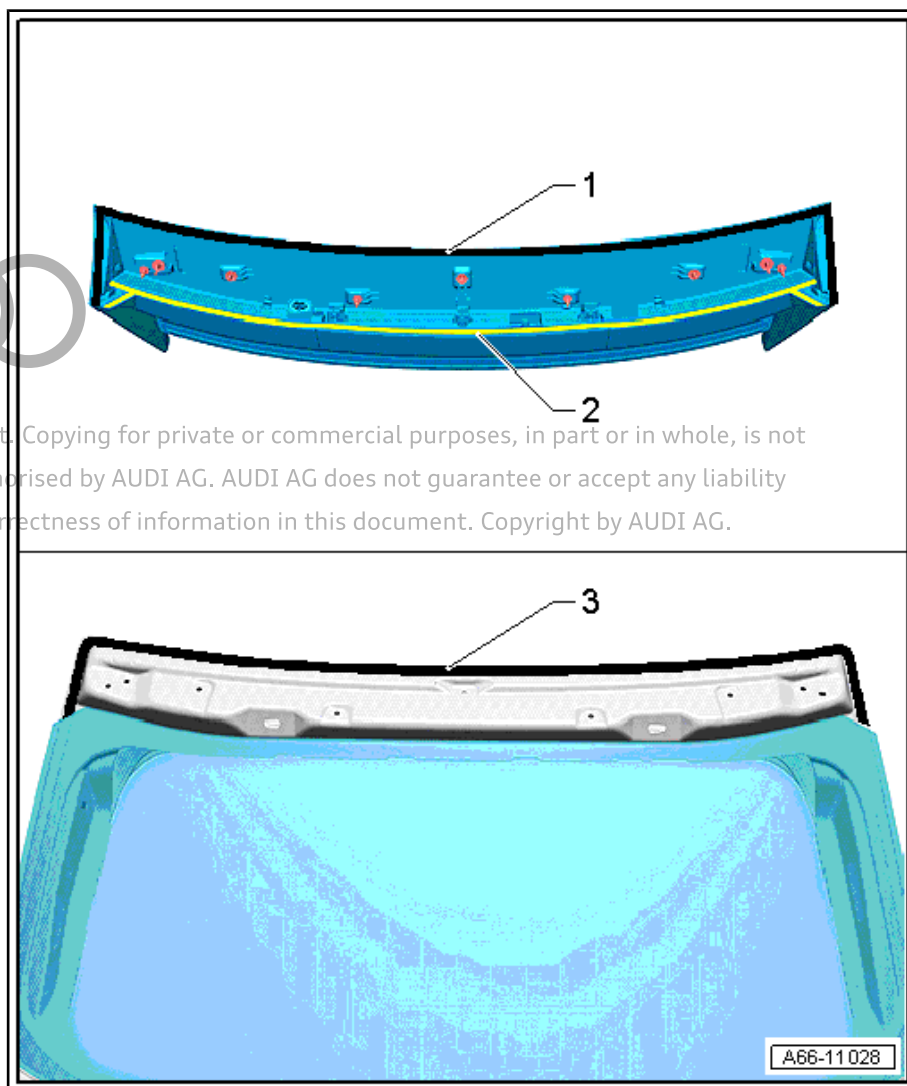
- ◆ *Bonding surface must be free of dirt and grease.*
- ◆ *Do not trim bonding surface until shortly before installation.*
- ◆ *Do not apply primer to bonding surface and do not use cleaning agents.*



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When installing a new roof spoiler:

- Clean bonding surfaces for adhesive bead -1- and foam seal -2- with cleaning solution - D 009 401 04- .
- Apply glass/paint primer - D 009 200 02- onto bonding surfaces -1 and 2- in one movement.
- Flash-off time: 10 minutes

Bonding flange on rear lid:

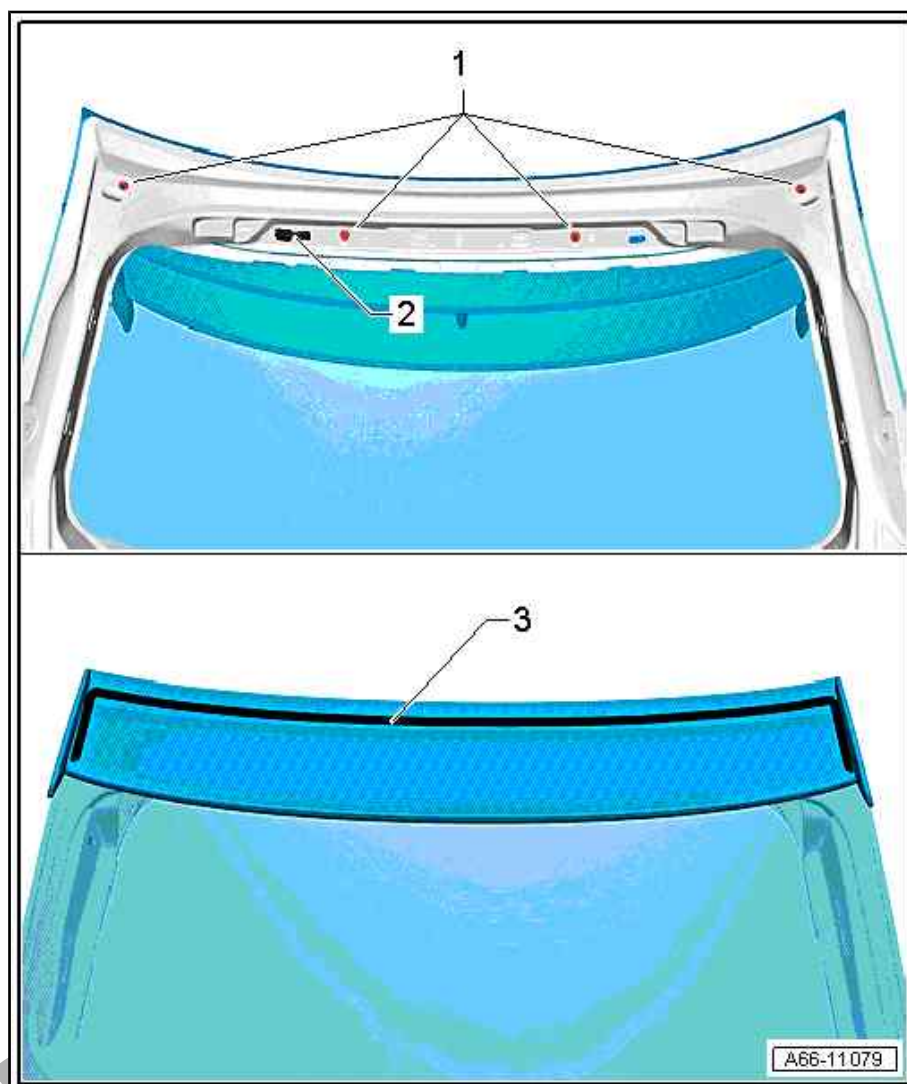
- If paintwork on rear lid -3- has been damaged, paintwork structure must be repaired and, if necessary, anti-corrosion measures must be taken ⇒ Audi Paintwork Guide .
- Clean treated area with cleaning solution - D 009 401 04- and then apply glass/paint primer - D 009 200 02- in one movement.
- Flash-off time: 10 minutes

Installing roof spoiler

- Renew clips if damaged.
- Bond on new foam seal -2-.
- Apply 1-component assembly adhesive - D 190 MKD A3- to bonding area -1-.



- Adhesive bead: $\varnothing$ 6 mm



- Position roof spoiler on rear lid and press it on so that clips engage audibly.

- Tighten nuts -1-

- Tightening torques [⇒ page 214](#)

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3 Strips / trim panels / extensions

- ⇒ ["3.1 Exploded view - sill panel trim", page 221](#)
- ⇒ ["3.2 Exploded view - side member trim", page 223](#)
- ⇒ ["3.3 Exploded view - trim panel for A-pillar", page 226](#)
- ⇒ ["3.4 Exploded view - trim panel for B-pillar", page 227](#)
- ⇒ ["3.5 Exploded view - trim panel for C-pillar", page 228](#)
- ⇒ ["3.6 Exploded view - wheel arch covers", page 229](#)
- ⇒ ["3.7 Exploded view - heat shield", page 230](#)
- ⇒ ["3.8 Removing and installing sill panel trim", page 233](#)
- ⇒ ["3.9 Removing and installing side member trim", page 235](#)
- ⇒ ["3.10 Removing and installing trim panel for A-pillar", page 245](#)
- ⇒ ["3.11 Removing and installing trim panel for B-pillar on door", page 247](#)
- ⇒ ["3.12 Removing and installing trim panel for B-pillar", page 248](#)
- ⇒ ["3.13 Removing and installing trim panel for C-pillar on door", page 249](#)
- ⇒ ["3.14 Removing and installing trim panel for C-pillar", page 249](#)
- ⇒ ["3.15 Removing and installing wheel housing extension", page 251](#)

3.1 Exploded view - sill panel trim



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1 - Sill panel trim (rear)

- ❑ Removing and installing
⇒ [page 233](#)

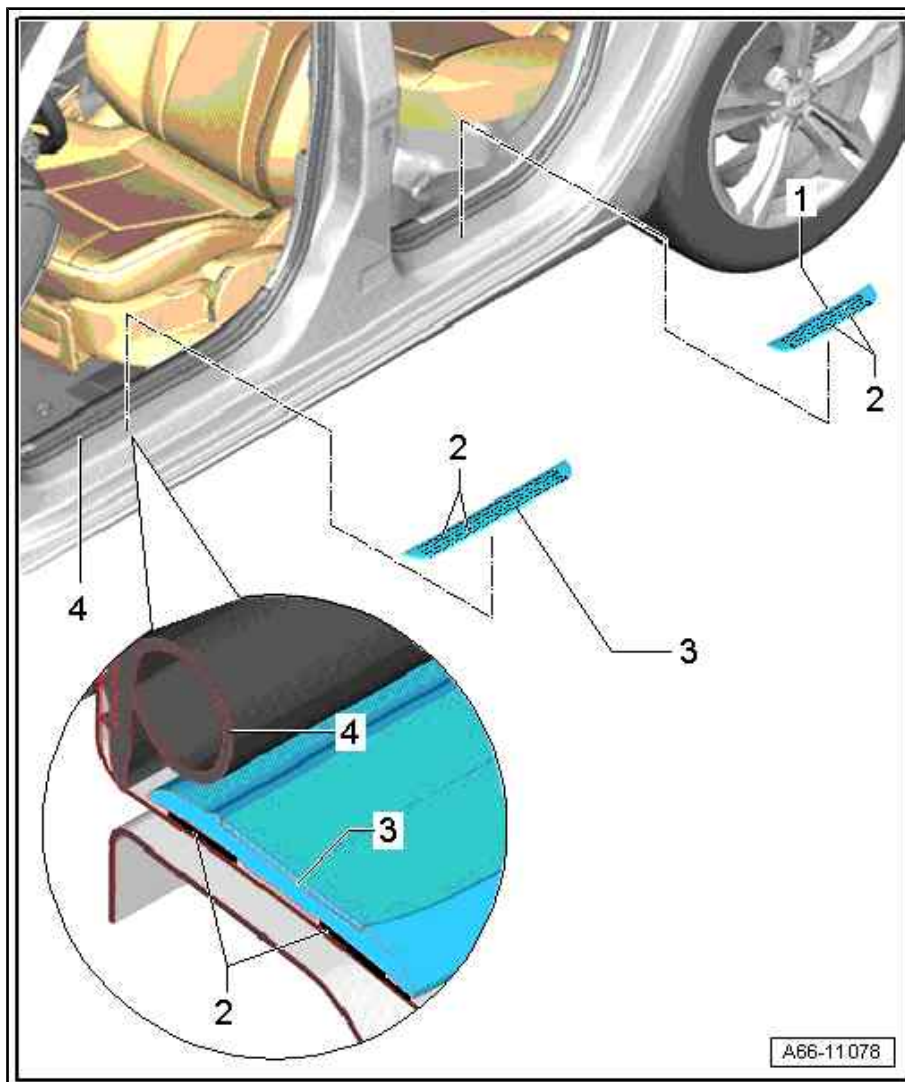
2 - Adhesive tape

- ❑ Peel off protective film
before mounting.

3 - Sill panel trim (front)

- ❑ Removing and installing
⇒ [page 233](#)

4 - Inner door seal



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3.2 Exploded view - side member trim

⇒ "3.2.1 Exploded view - side member trim", page 223

⇒ "3.2.2 Exploded view - side member trim, Audi A1 quattro",
page 224

⇒ "3.2.3 Exploded view - side member trim, Audi S1", page 225

3.2.1 Exploded view - side member trim

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1 - Side member trim

- ☐ Removing and installing
⇒ [page 235](#)

2 - Bolt

- ☐ 3x
- ☐ 2 Nm

3 - Fastener

- ☐ 6x

4 - Fastening strip

- ☐ Removing and installing
⇒ [page 235](#)

5 - Nut

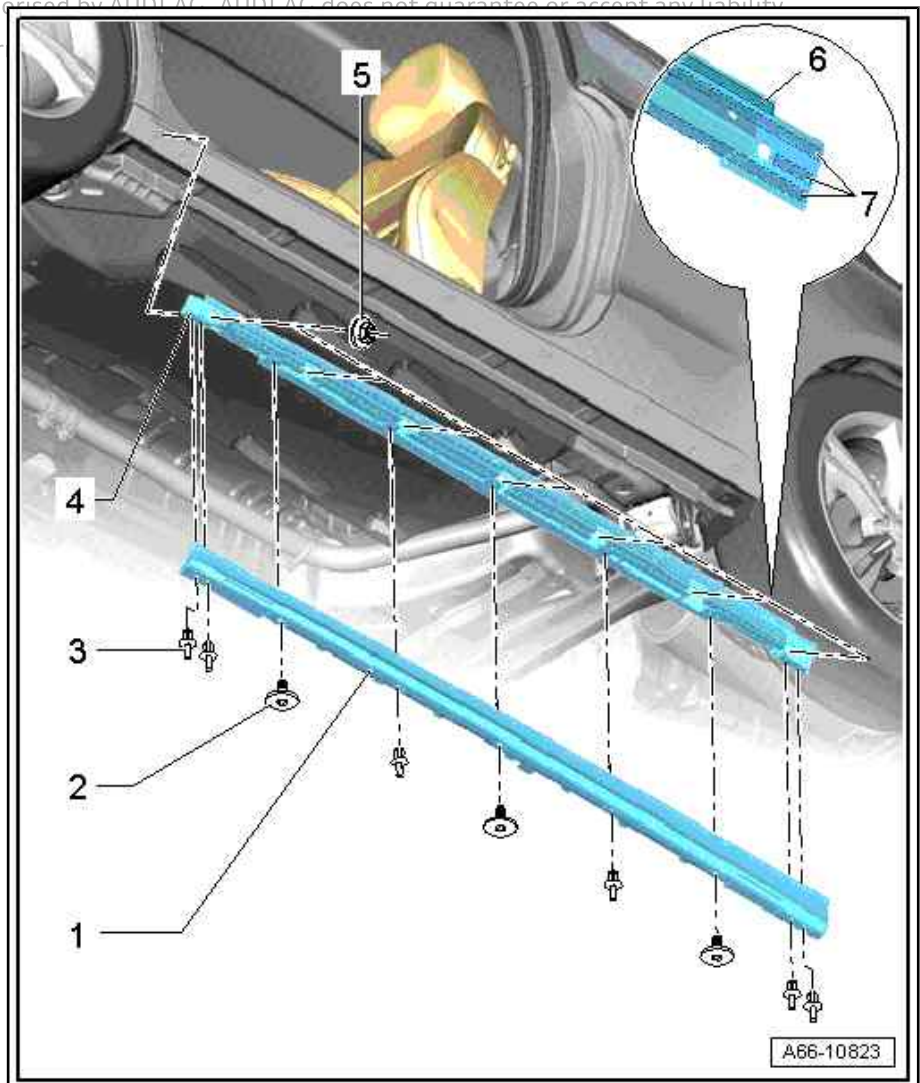
- ☐ 7x
- ☐ 2 Nm

6 - Adhesive tape

- ☐ Double-sided
- ☐ For bonding to side member trim

7 - Adhesive tape

- ☐ Double-sided
- ☐ For bonding to side member





3.2.2 Exploded view - side member trim, Audi A1 quattro

1 - Side member plating

2 - Side member trim

- Removing and installing

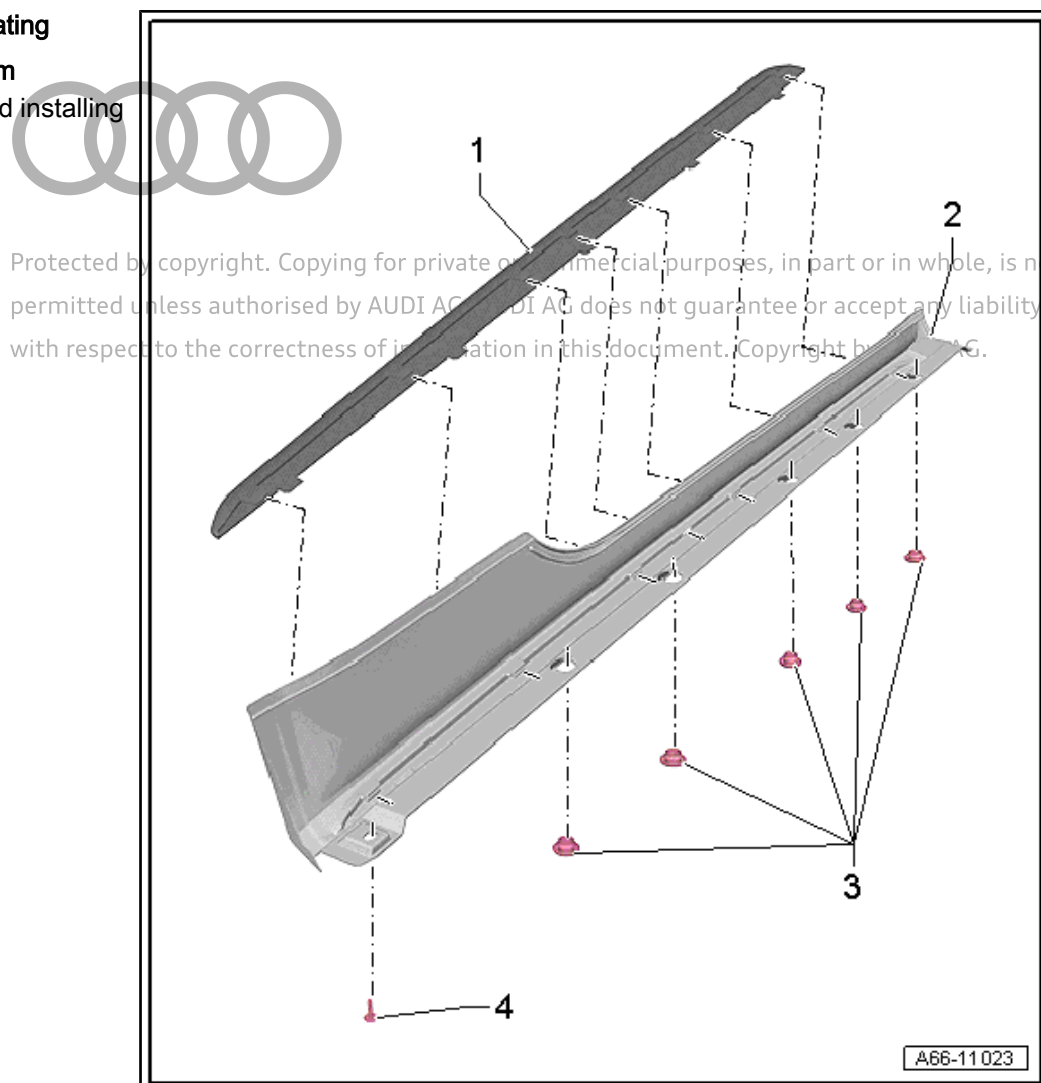
⇒ [page 237](#)

3 - Plug

- 5x

4 - Bolt

- 2 Nm





3.2.3 Exploded view - side member trim, Audi S1

1 - Nut

- ☐ 7x
- ☐ 2 Nm

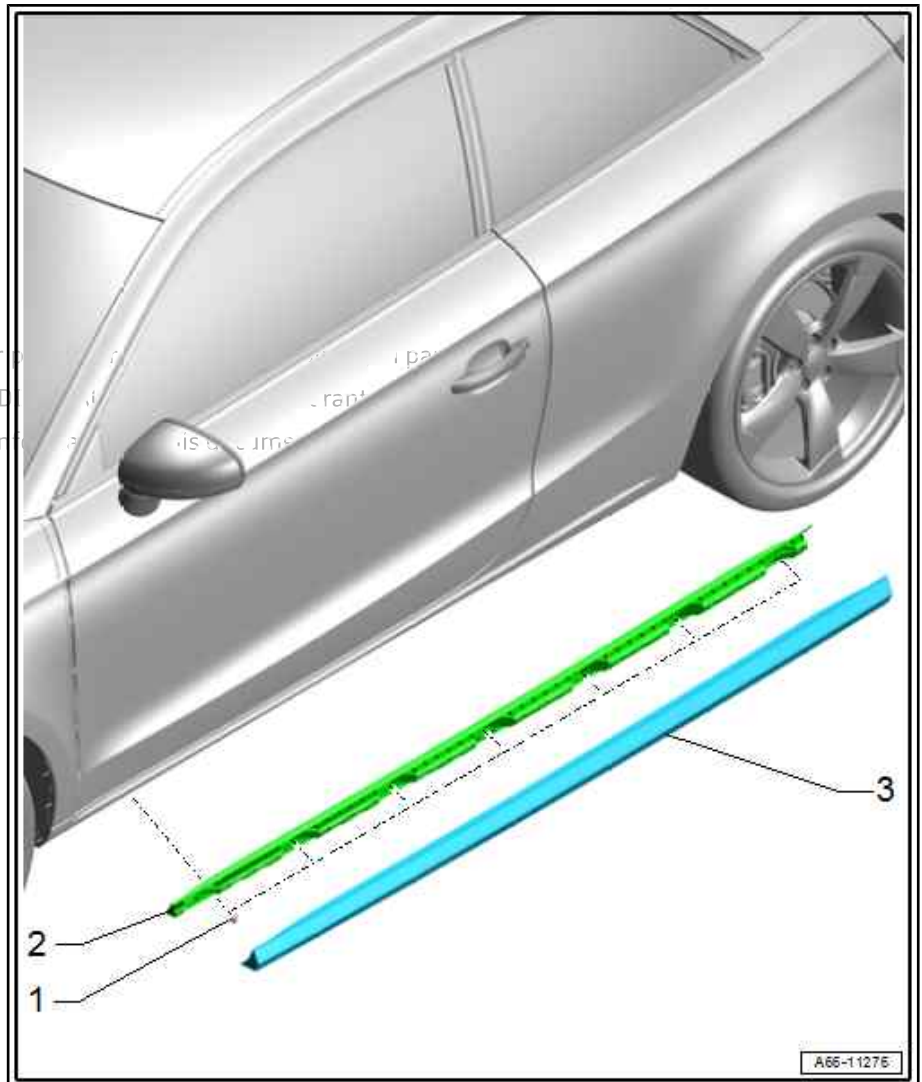
2 - Mounting

- ☐ For side member trim
- ☐ Removing and installing
⇒ [page 243](#)

3 - Side member trim

- ☐ Removing and installing
⇒ [page 243](#)

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3.3 Exploded view - trim panel for A-pillar

1 - A-pillar cover

- ❑ Removing and installing
⇒ [page 245](#)

2 - A-pillar

3 - Bolt

- ❑ 2.5 Nm

4 - Sealing piece

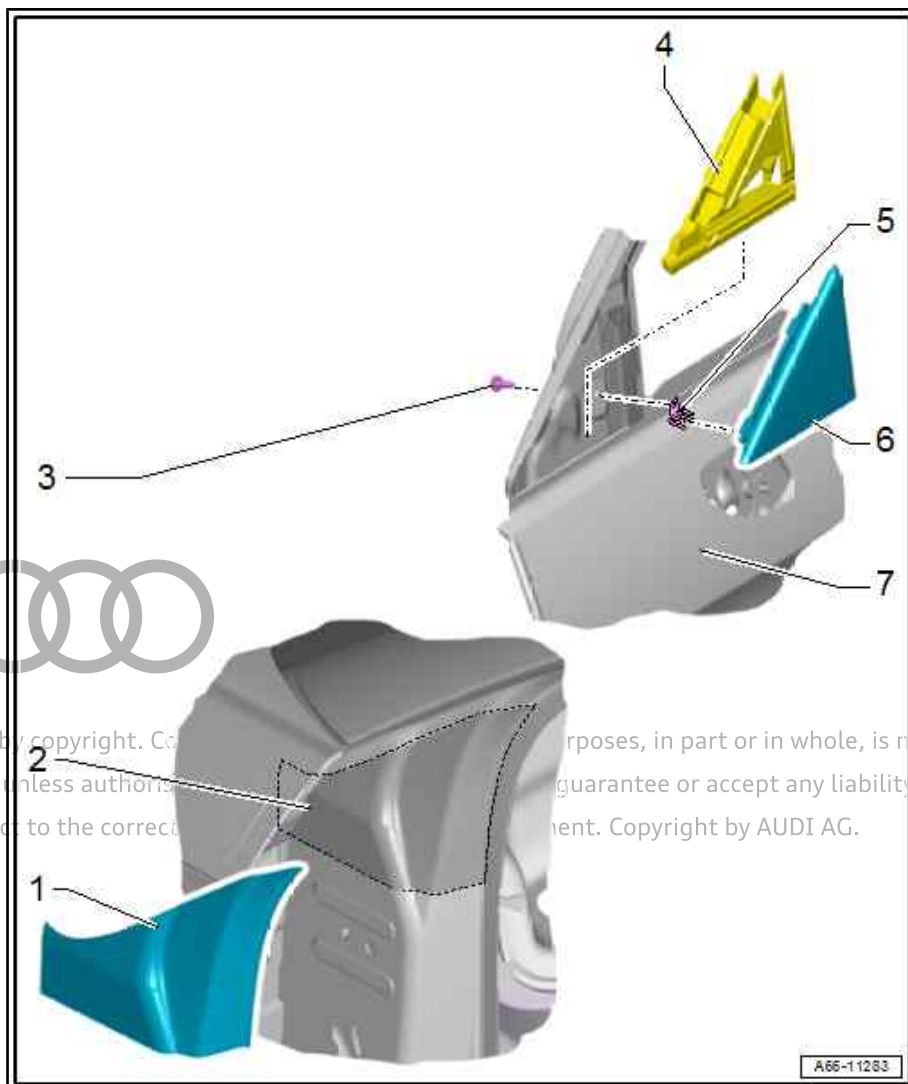
- ❑ For trim panel for A-pillar
- ❑ Insert in triangular section of door in correct position

5 - Clip

6 - Trim panel for A-pillar

- ❑ Removing and installing
⇒ [page 246](#)

7 - Door





3.4 Exploded view - trim panel for B-pillar

1 - Front door

2 - Sealing piece

- ☐ For trim panel for B-pillar (front door)

3 - Clip nut

- ☐ 3x

4 - B-pillar

- ☐ Vehicles with 3 doors

5 - Trim panel for B-pillar

- ☐ Vehicles with 3 doors
- ☐ Removing and installing
⇒ [page 248](#)

6 - Clip nut

- ☐ 3x

7 - Trim panel for B-pillar

- ☐ Rear door (vehicles with 5 doors)
- ☐ Removing and installing
⇒ [page 247](#)

8 - Bolt

- ☐ 3x
- ☐ 2.5 Nm

9 - Rear door

10 - Sealing piece

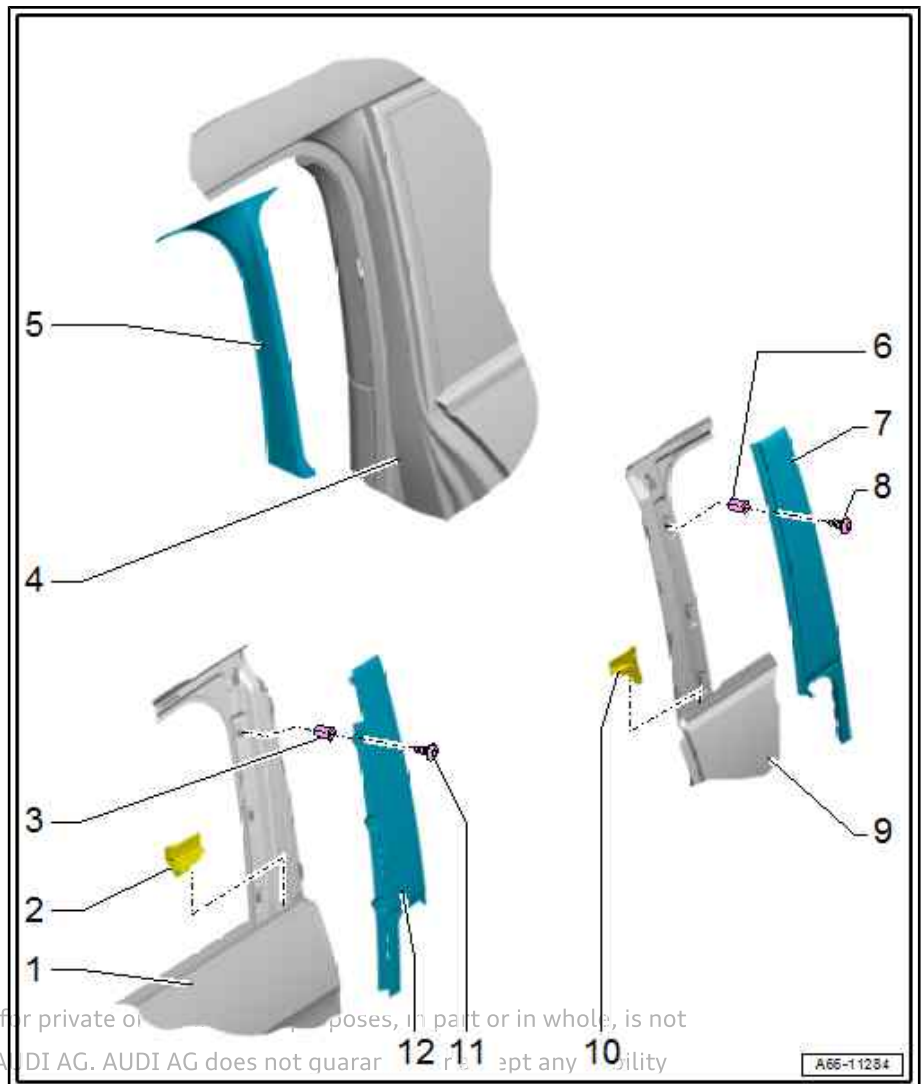
- ☐ For trim panel for B-pillar (rear door)

11 - Bolt

- ☐ 3x
- ☐ 2.5 Nm

12 - Trim panel for B-pillar

- ☐ Front door (vehicles with 5 doors)
- ☐ Removing and installing ⇒ [page 247](#)



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3.5 Exploded view - trim panel for C-pillar

1 - Clip

2 - Bolt

- 2.5 Nm

3 - C-pillar

- Vehicles with 5 doors

4 - Cover for C-pillar

- Vehicles with 5 doors
- Removing and installing
⇒ [page 249](#)

5 - C-pillar

- Vehicles with 3 doors

6 - Trim panel for C-pillar

- Vehicles with 3 doors
- Removing and installing
⇒ [page 250](#)

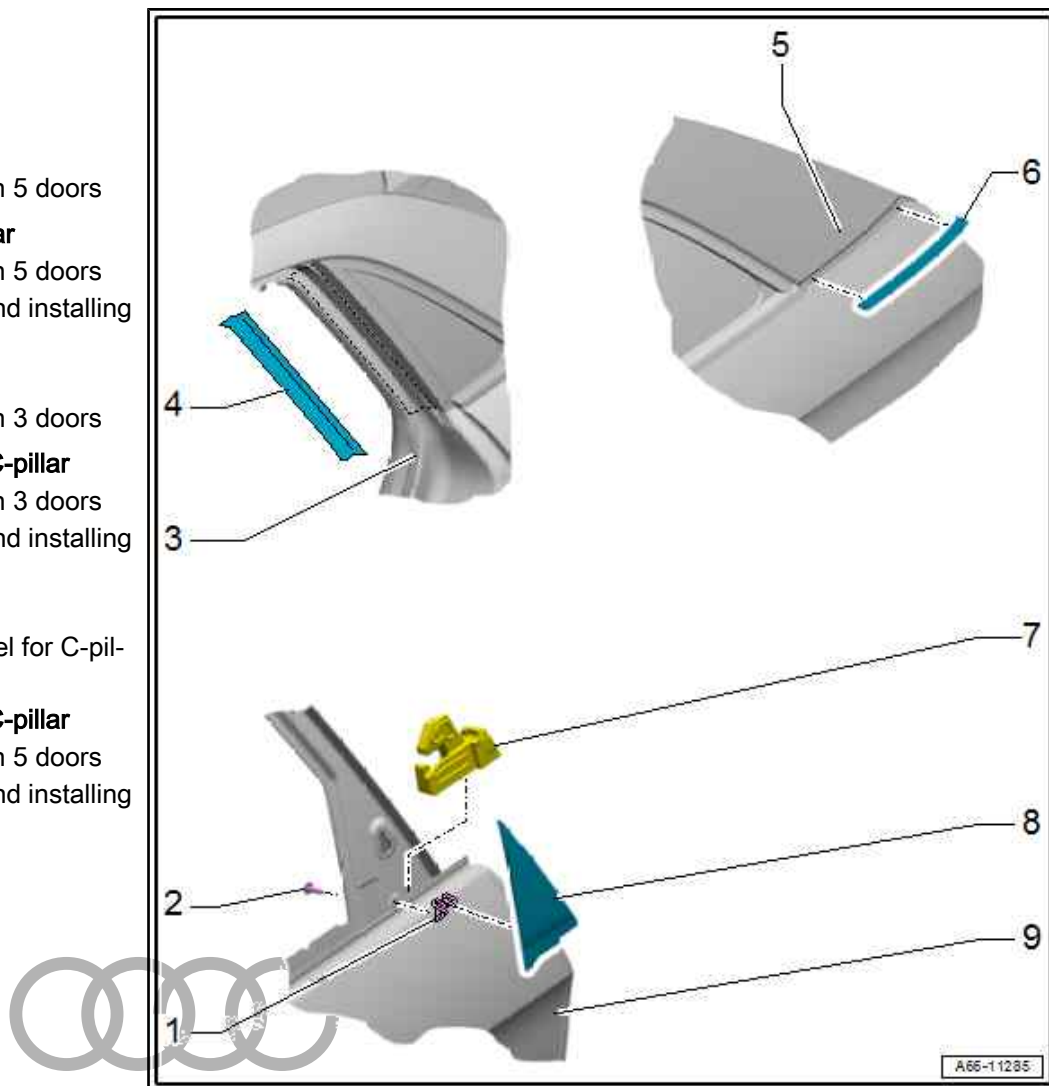
7 - Sealing piece

- For trim panel for C-pillar

8 - Trim panel for C-pillar

- Vehicles with 5 doors
- Removing and installing
⇒ [page 249](#)

9 - Rear door



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3.6 Exploded view - wheel arch covers

1 - Wheel housing extension at wing panel (front)

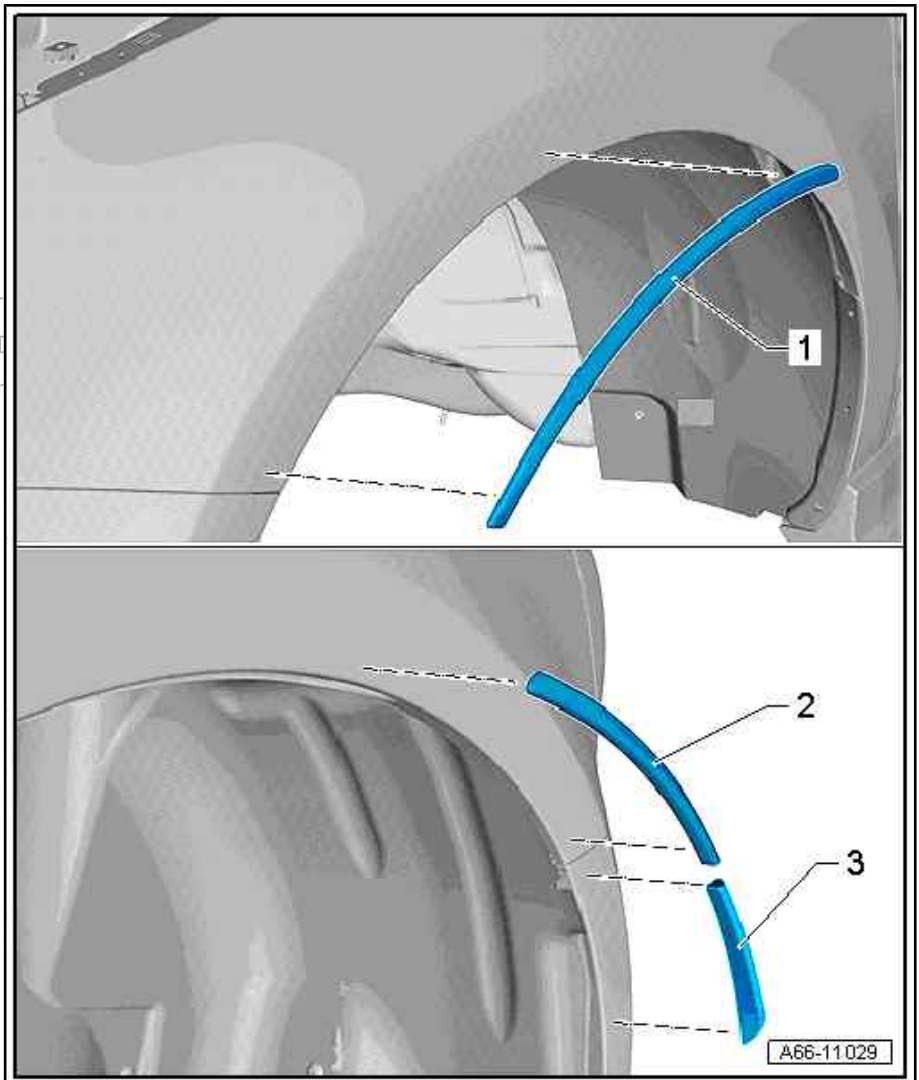
- ❑ Removing and installing
⇒ [page 251](#)

2 - Wheel housing extensions at side panel (rear)

- ❑ Removing and installing
⇒ [page 251](#)

3 - Wheel housing extensions at bumper cover (rear)

- ❑ Removing and installing
⇒ [page 251](#)





3.7 Exploded view - heat shield

⇒ [“3.7.1 Exploded view - heat shield \(front\)”, page 230](#)

⇒ [“3.7.2 Exploded view - heat shield \(front\), Audi S1”, page 231](#)

⇒ [“3.7.3 Exploded view - heat shield \(rear\)”, page 232](#)

⇒ [“3.7.4 Exploded view - heat shield \(rear\), Audi A1 quattro / Audi S1”, page 233](#)

3.7.1 Exploded view - heat shield (front)

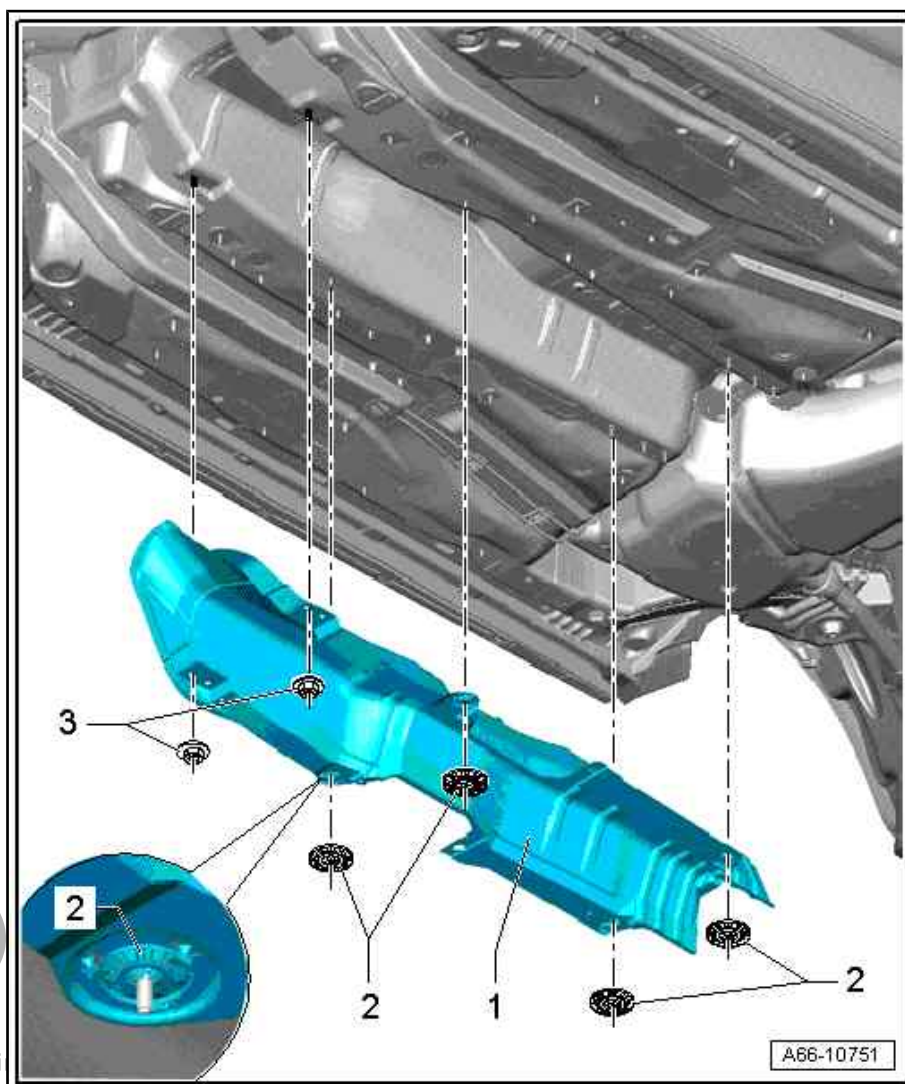
1 - Heat shield

2 - Clamping washer

- When removing, unscrew; when installing, only press in clamping washers.

3 - Nut

- 10 Nm



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3.7.2 Exploded view - heat shield (front), Audi S1

1 - Nut

- 10 Nm

2 - Heat shield

- For propshaft

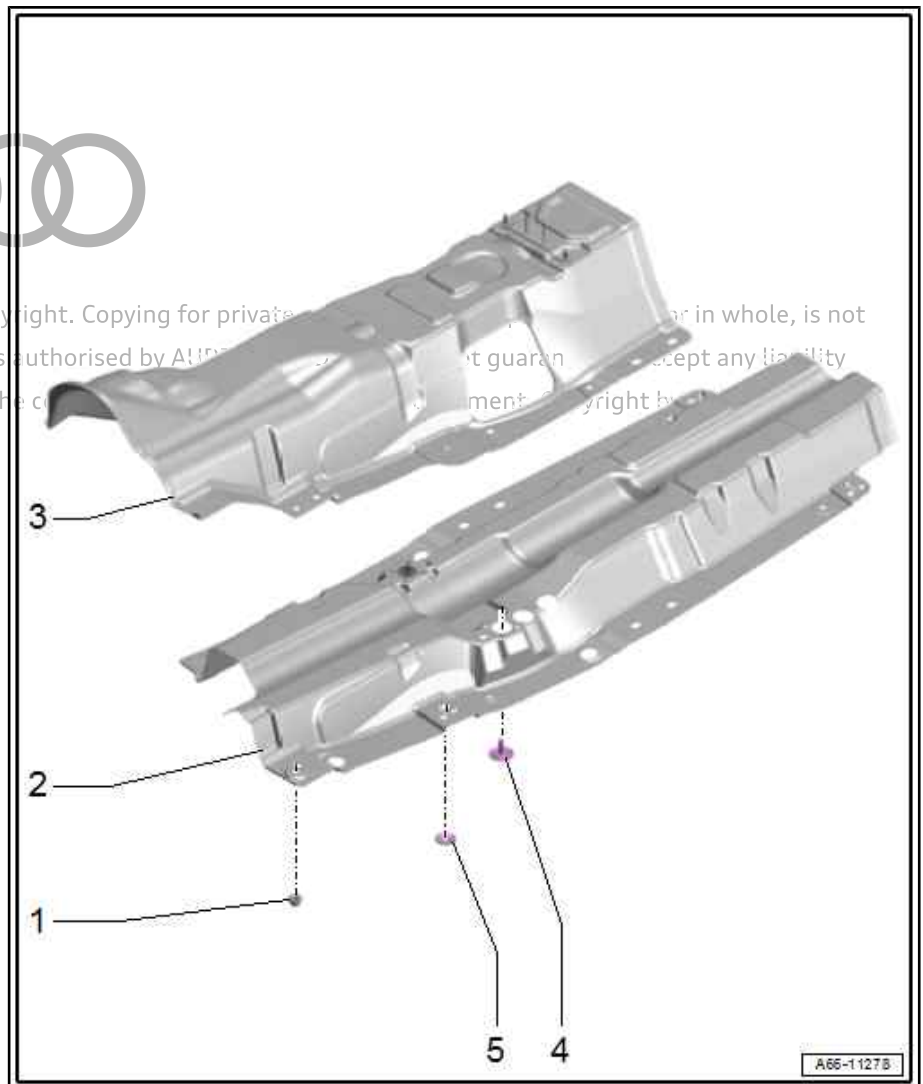
3 - Heat shield

- For tunnel (centre)

4 - Bolt

- Tightening torque →
Rear final drive; Rep.
gr. 39 ; Propshaft; Ex-
ploded view - propshaft

5 - Clamping washer





3.7.3 Exploded view - heat shield (rear)

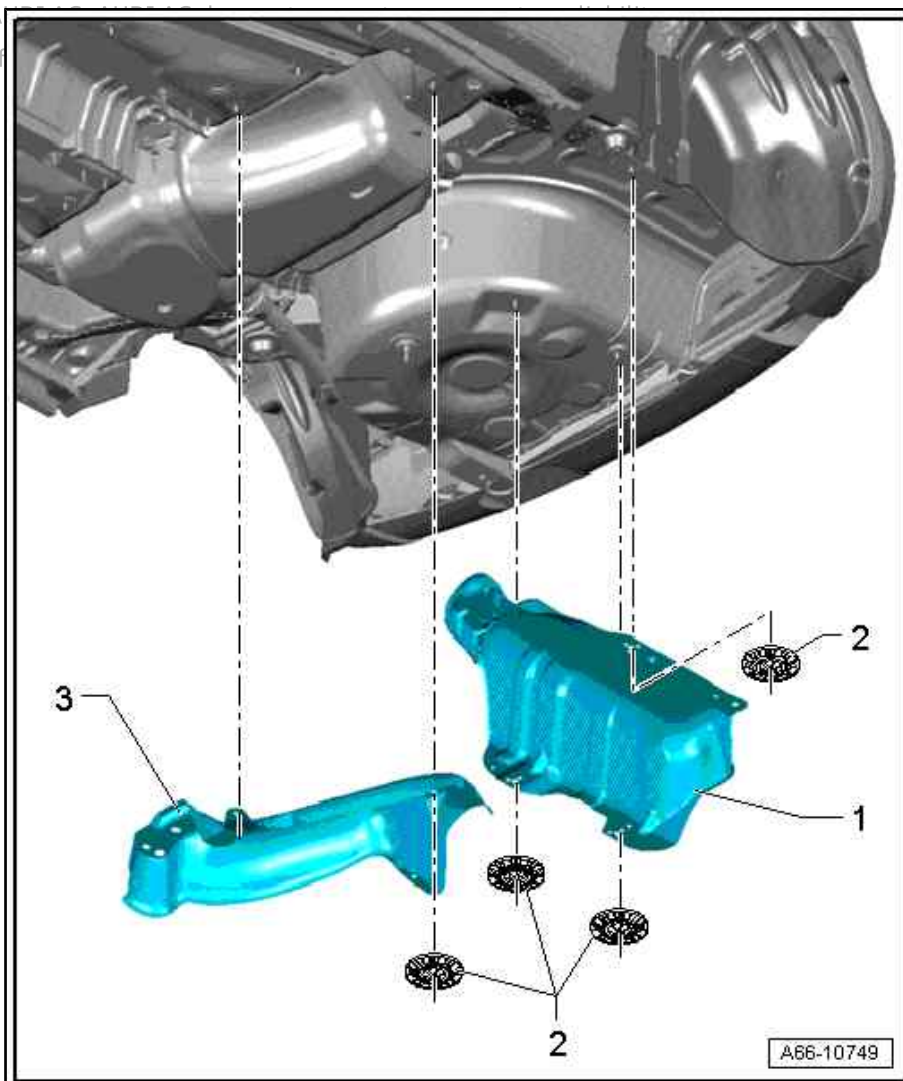
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1 - Heat shield for rear silencer

2 - Clamping washer

- When removing, unscrew; when installing, only press in.

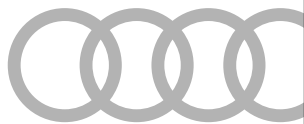
3 - Heat shield for fuel tank



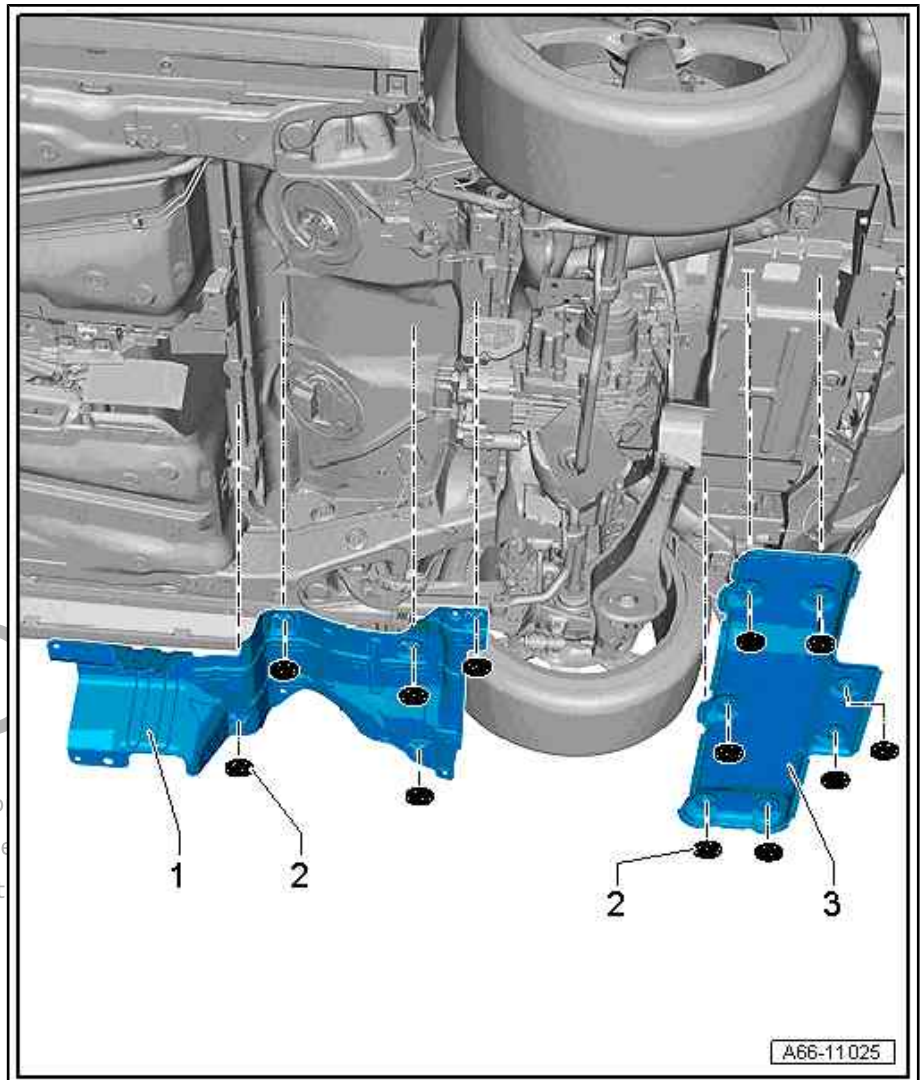


3.7.4 Exploded view - heat shield (rear), Audi A1 quattro / Audi S1

- 1 - Heat shield for fuel tank
 - ❑ Only on Audi A1 quattro
- 2 - Clamping washer
 - ❑ When removing, unscrew; when installing, only press in.
- 3 - Heat shield for rear silencer



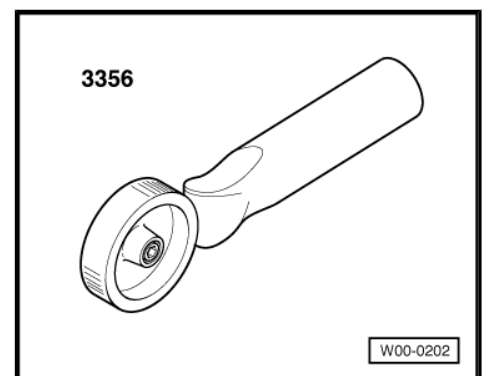
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3.8 Removing and installing sill panel trim

Special tools and workshop equipment required

- ◆ Roller - 3356-





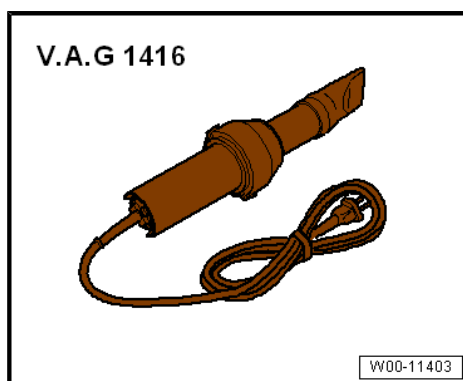
◆ Removal wedge - 3409-



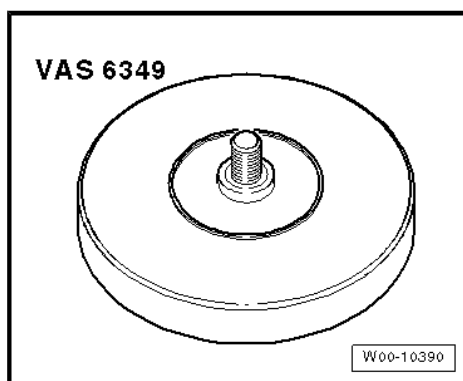
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◆ Hot air blower - V.A.G 1416-



◆ Adhesive strip remover - VAS 6349-



◆ Cleaning solution - D 009 401 04-



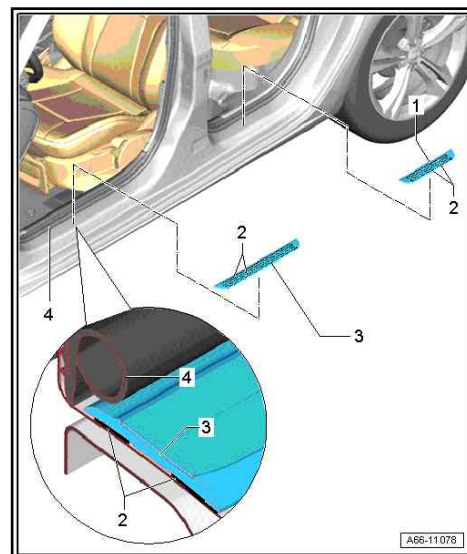
Removing

- Before removing, mark position of sill panel trim with adhesive tape or similar.
- Carefully heat sill panel trim -1, 3- with hot air blower - V.A.G 1416- .
- Use removal wedge - 3409- to carefully prise sill panel trim off side member -arrow-.

Installing

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

- Clean bonding surface on body with cleaning solution - D 009 401 04- .
- Peel protective film off adhesive strip -2-.
- Position sill panel trim on side member according to marks and press firmly into place working from front to rear using roller - 3356- .
- Leave vehicle standing at room temperature for at least 2 hours.



3.9 Removing and installing side member trim

⇒ [“3.9.1 Removing and installing side member trim”, page 235](#)

⇒ [“3.9.2 Removing and installing side member trim - Audi A1 quattro”, page 237](#)

⇒ [“3.9.3 Removing and installing side member trim - Audi S1”, page 243](#)

⇒ [“3.9.4 Removing and installing mounting for side member trim - Audi S1”, page 243](#)

3.9.1 Removing and installing side member trim



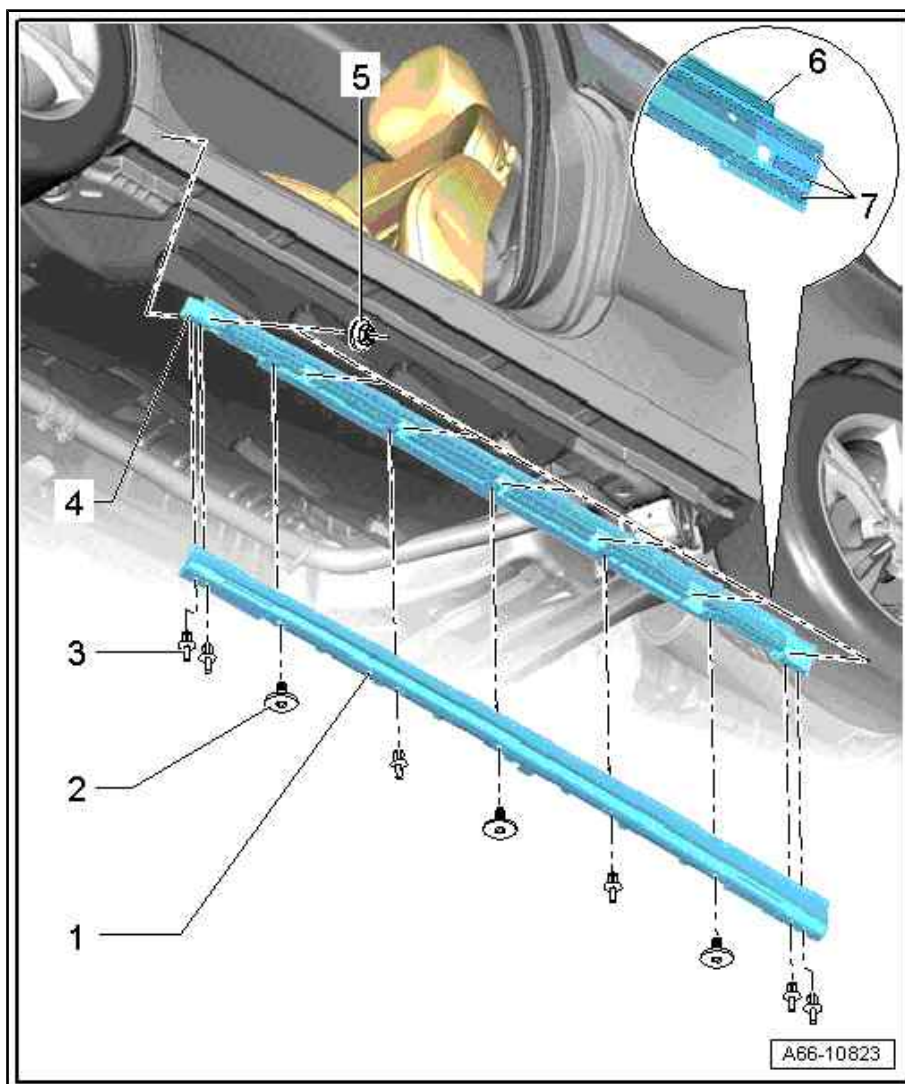
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**1 - Side member trim**☐ Removing

- Remove clips (front and rear) and unscrew bolts.
- Press side member trim (bottom) at mounting bracket upwards; this releases the catches
⇒ [page 237](#).
- Pull side member trim (bottom) outwards off fastening strip.
- Carefully heat bonded joint on top with a hot air blower and pull side member trim diagonally upwards off mounting bracket.

☐ Installing

- Before installing, completely remove any remaining adhesive.
- Align side member trim with side member and press into fastening strip at bottom.
- Press side member trim (top) onto fastening strip with adhesive strip.
- Insert fasteners and screw in bolts.

**2 - Bolt**

- ☐ 3x
- ☐ 2 Nm

3 - Fastener

- ☐ 6x

4 - Fastening strip

- ☐ Removing

**Note**

Before removal, mark position of fastening strip on side member to ensure that it is re-installed in the original position.

- Remove all nuts.
- Carefully heat bonded joint with a hot air blower and pull fastening strip off side member to the side.
- ☐ Installing
- ☐ Before installing, completely remove any remaining adhesive.
- Peel protective film off adhesive tape.
- Align fastening strip according to marks and press onto side member.



- Screw in nuts.

5 - Nut

- ☐ 7x
- ☐ 2 Nm

6 - Adhesive tape

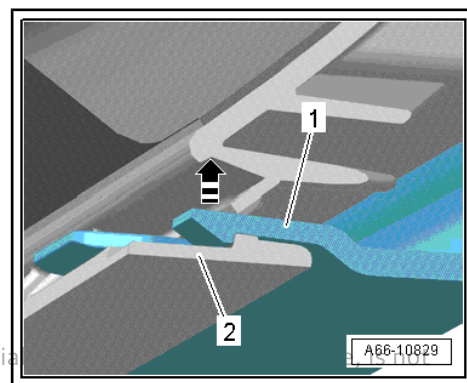
- ☐ Double-sided
- ☐ For bonding to side member trim

7 - Adhesive tape

- ☐ Double-sided
- ☐ For bonding to side member

Unclipping side member trim

- Clips and bolts removed.
- Gradually press retaining hooks -1- upwards out of fastening strip -2- and pull out side member trim outwards.

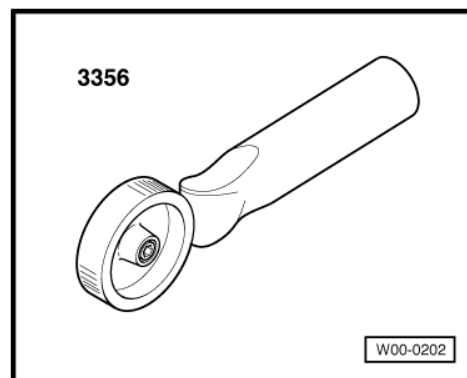


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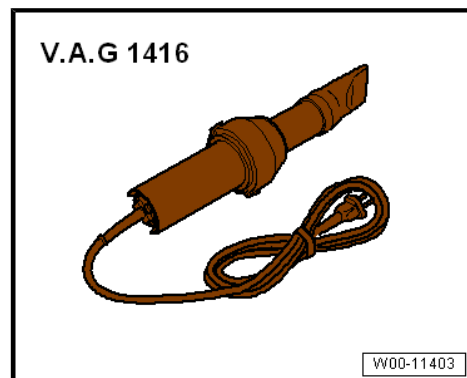
3.9.2 Removing and installing side member trim - Audi A1 quattro

Special tools and workshop equipment required

- ◆ Roller - 3356-

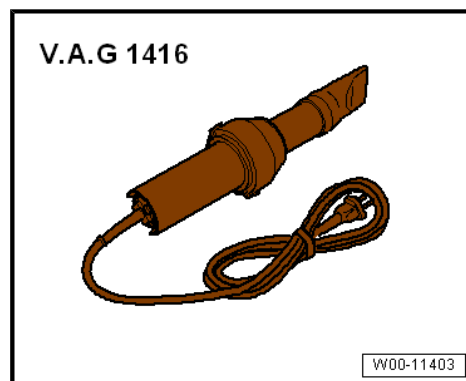


- ◆ Hot air blower - V.A.G 1416-

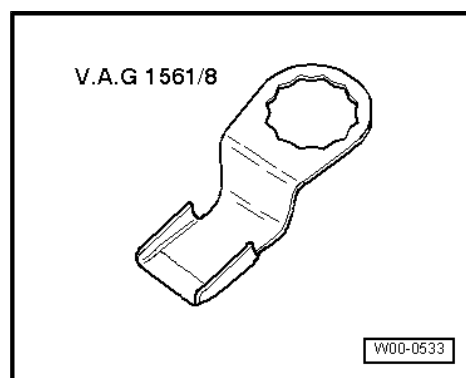




- ◆ Electric cutter - V.A.G 1561A-



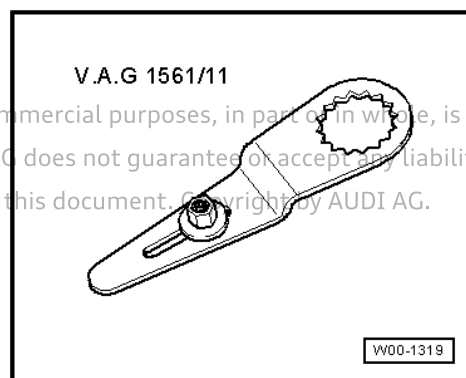
- ◆ Scraper (15 + 25 mm) - V.A.G 1561/7+8-



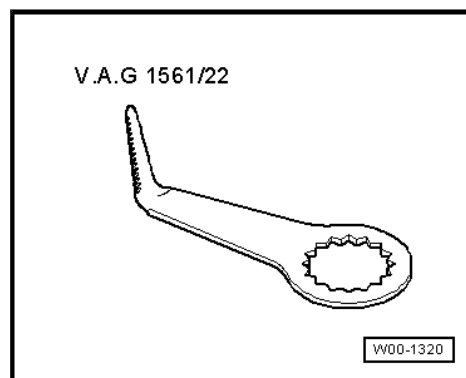
- ◆ Universal blade - V.A.G 1561/11-



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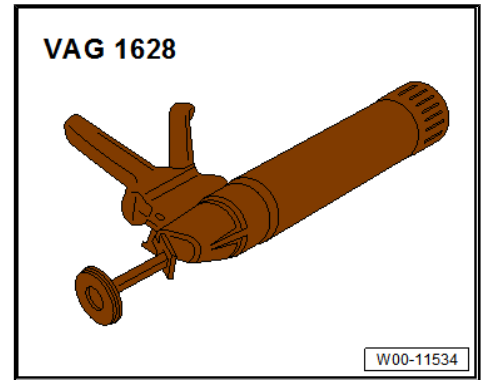


- ◆ Blade (L-shaped, 25.4 mm) - V.A.G 1561/22-

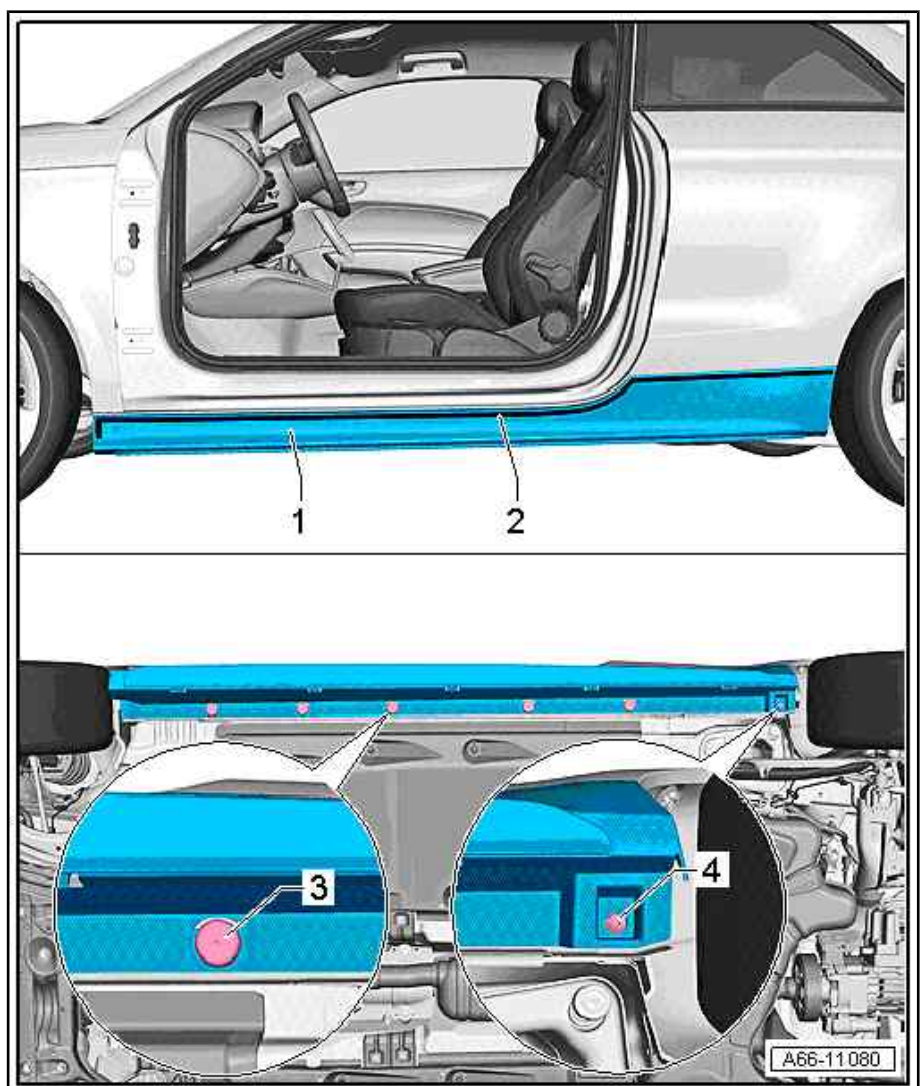




- ◆ Hand-cartridge gun - V.A.G 1628-



Removing and installing



- Unscrew bolt -4-.
- Remove plug -3-.
- Cut through adhesive bead -2- with electric cutter - V.A.G 1561A-.
- Carefully pull off side member trim -1-.

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Preparations before installing side member



Note

- ◆ *Just before re-installing an undamaged side member, use electric cutter - V.A.G 1561A- and scraper (25 mm) - V.A.G 1561/8- to cut back the remaining adhesive sealant for an even surface, but do not remove completely.*
- ◆ *The remaining sealant on the side member trim and the side member is required as a base for better adhesion of the new adhesive sealant.*

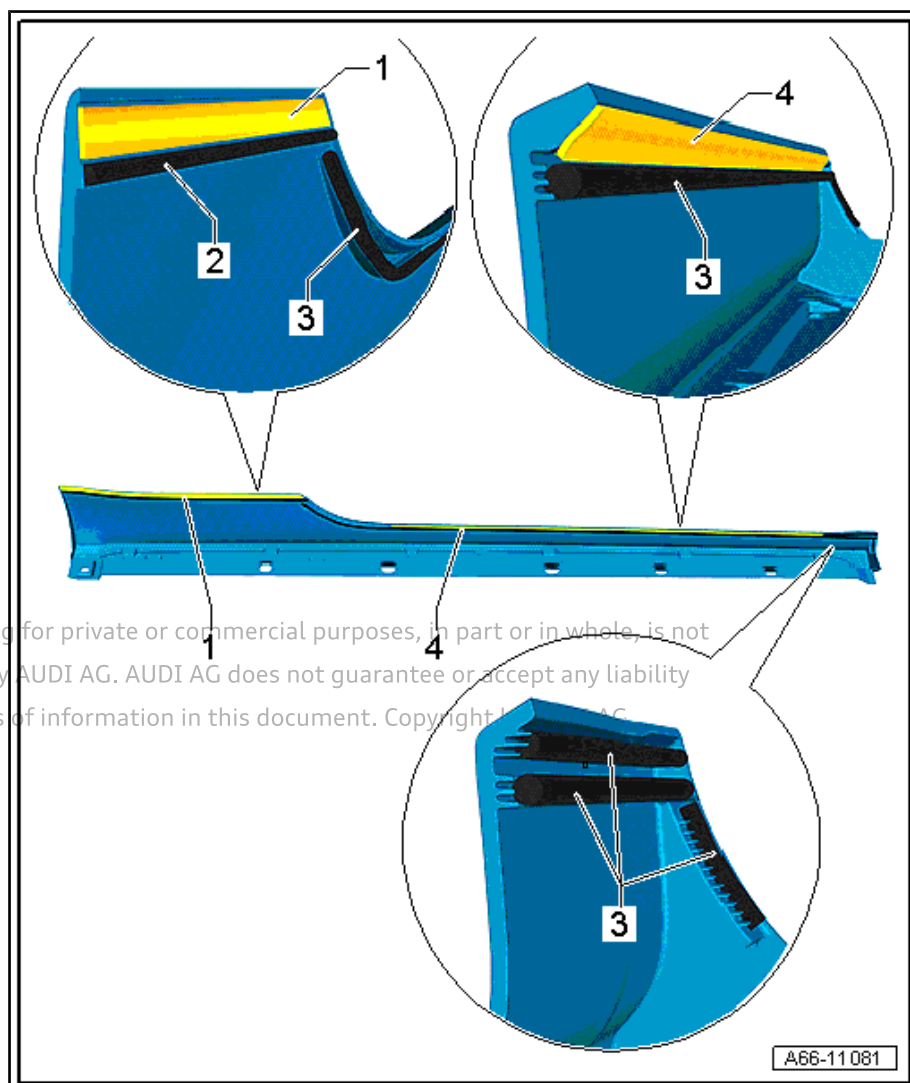


Caution

- ◆ *Bonding surface must be free of dirt and grease.*
- ◆ *Do not trim bonding surface until shortly before installation.*
- ◆ *Do not apply primer to bonding surface and do not use cleaning agents.*



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If installing a new side member:



Note

If a new side member is ordered, the adhesive tape -1 and 4- is supplied as separate strips.

- Clean bonding surfaces with cleaning solution - D 009 401 04- .
- Apply glass/paint primer - D 009 200 02- onto bonding surfaces (for adhesive and adhesive tape) in one movement.
- Flash-off time: 10 minutes
- Heat bonding area to approx. 40° C using hot air blower.
- Peel off protective film on one side of adhesive tape -1 and 4- and bond onto side member as shown.
- Press on adhesive tape using roller - 3356- .

Bonding area on side member:

- If paintwork on side member 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- in one movement.
- Flash-off time: 10 minutes

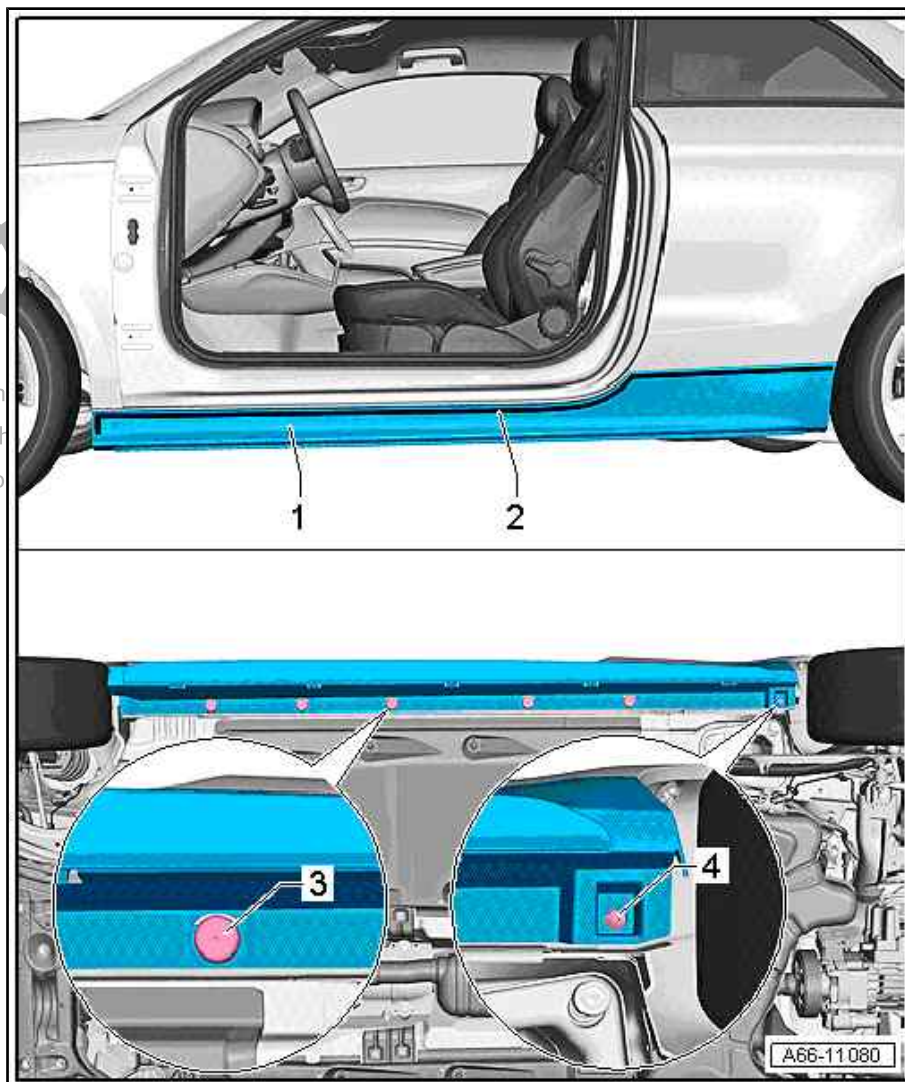
Installing side member trim

- Apply 1-component assembly adhesive - D 190 MKD A3- to bonding area -2-.
- Adhesive bead: Ø 4 mm
- Apply 1-component assembly adhesive - D 190 MKD A3- to bonding area -3-.
- Adhesive bead: Ø 5 mm





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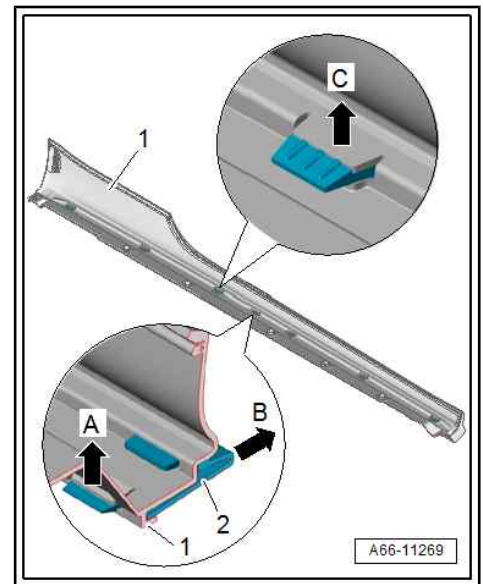


- Position side member trim on body and align.
- Gradually peel protective film off adhesive tape and press side member trim on in bonding area.
- Press in plug -3-
- Tighten bolt -4-.
- Tightening torques ⇒ [Item 4 \(page 224\)](#)



Removing and installing side member extension

- Side member trim removed
- Press outer retaining hooks upwards in direction of arrow -A- and release them one after the other.
- Release inner fasteners (not retaining hook) upwards one after the other in direction of arrow -C- and pull side member extension -2- sideways out of side member trim -1- in direction of arrow -B-.
- To install, push side member extension sideways into side member trim.
- Side member extension must engage audibly.



3.9.3 Removing and installing side member trim - Audi S1

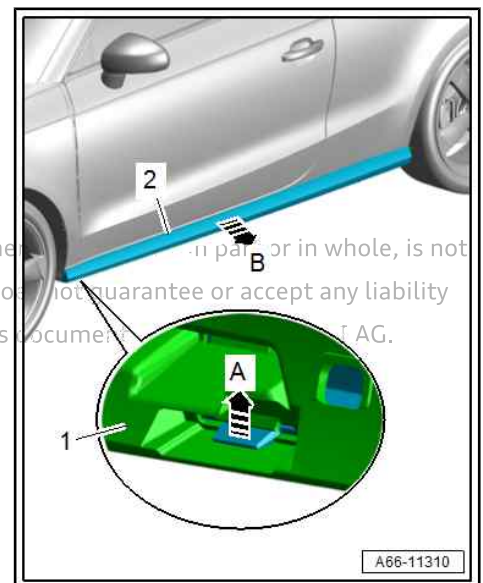
Removing

- Release fasteners -arrow A-.
- Pull side member trim -2- out of mounting -1- -arrow B-.

Installing

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

- Press on side member trim until it engages audibly.

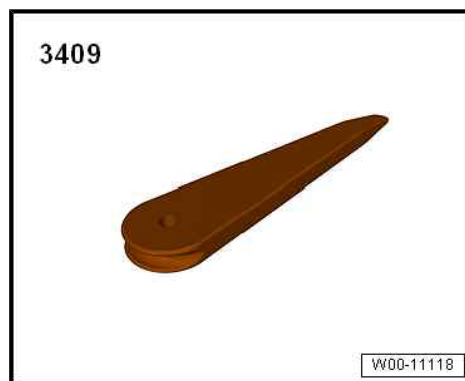


3.9.4 Removing and installing mounting for side member trim - Audi S1

Special tools and workshop equipment required



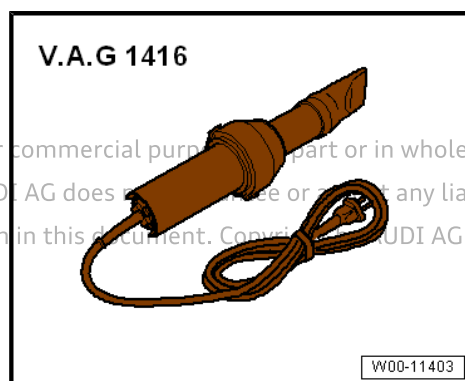
◆ Removal wedge - 3409-



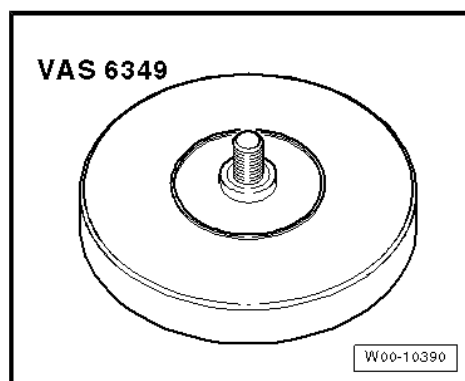
◆ Hot air blower - V.A.G 1416-



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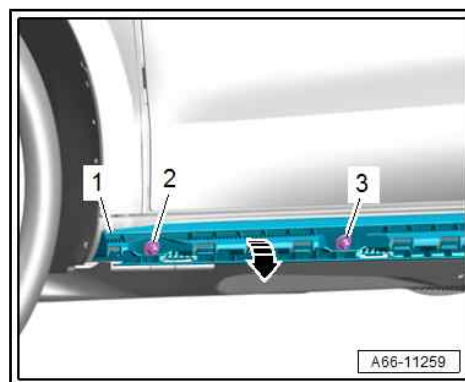
◆ Adhesive strip remover - VAS 6349-



◆ Cleaning solution - D 009 401 04-

Removing

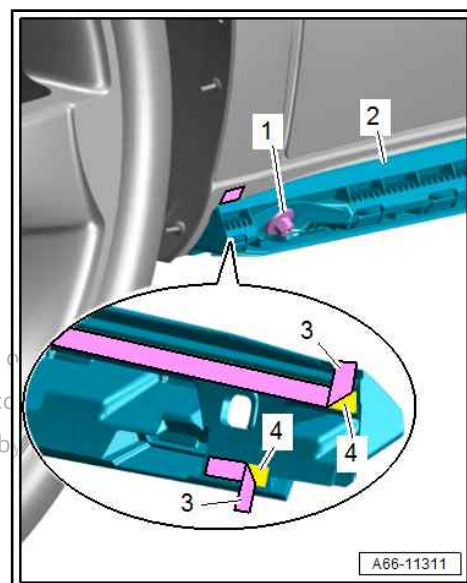
- Remove side member trim ⇒ [page 243](#) .
- Remove nuts -2, 3-.
- Carefully heat mounting -1- with hot air blower - V.A.G 1416- .
- Use removal wedge - 3409- to carefully prise mounting off side member -arrow-.





Installing

- Remove any residual adhesive with adhesive strip remover - VAS 6349- .
- Clean bonding surface on body with cleaning solution - D 009 401 04- .
- Fold ends -3- of protective film up 90° at outer edges of mounting, as shown in illustration.
- Position mounting -2- on top edge of side member.
- Screw in nuts -1- by hand as far as stop.
- Peel protective film off adhesive strip -4-.
- Press mounting onto side member over entire length.
 - Leave vehicle standing at room temperature for at least 4 hours.
- Tighten nuts to specified torque.



Tightening torques

- ◆ ⇒ [“3.2.3 Exploded view - side member trim, Audi S1”, page 225](#)

3.10 Removing and installing trim panel for A-pillar

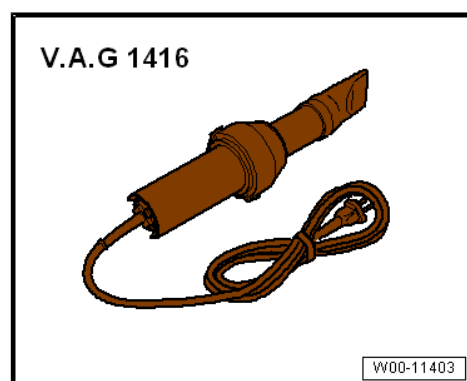
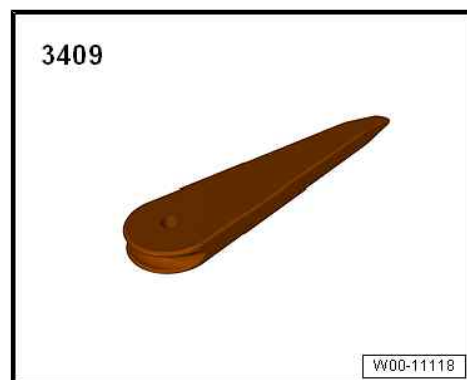
⇒ [“3.10.1 Removing and installing A-pillar cover”, page 245](#)

⇒ [“3.10.2 Removing and installing trim panel for A-pillar”, page 246](#)

3.10.1 Removing and installing A-pillar cover

Special tools and workshop equipment required

- ◆ Removal wedge - 3409-
- ◆ Hot air blower - V.A.G 1416-





- ◆ Cleaning solution - D 009 401 04-

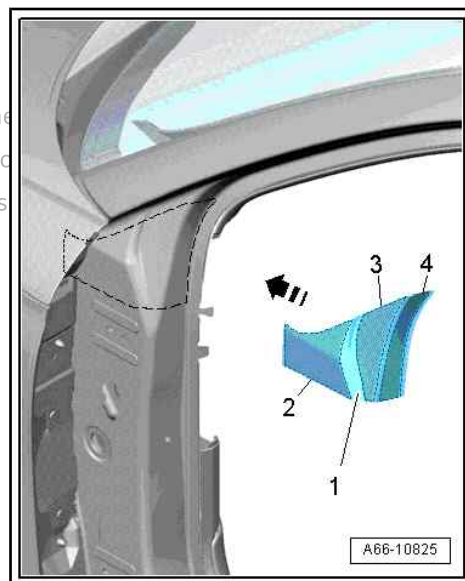
Removing

- Detach door seal in area of cover.
- Mark position of cover prior to removal.
- Carefully heat A-pillar cover 1 with hot air blower - V.A.G 1416- .
- Carefully prise A-pillar cover off A-pillar using removal wedge - 3409- .

Installing

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

- Clean bonding surface on body with cleaning solution - D 009 401 04- .
- Peel protective films off adhesive strips -2, 3, 4-.
- Position cover according to marks made previously -arrow- and press on by hand.



3.10.2 Removing and installing trim panel for A-pillar

Removing

- Remove trim for mirror cover ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim (front); Removing and installing trim for mirror cover .
- Remove bolt -1-.
- Press trim panel for A-pillar -item 2- out of window guide in direction of -arrow A- and remove towards side -arrow B-.

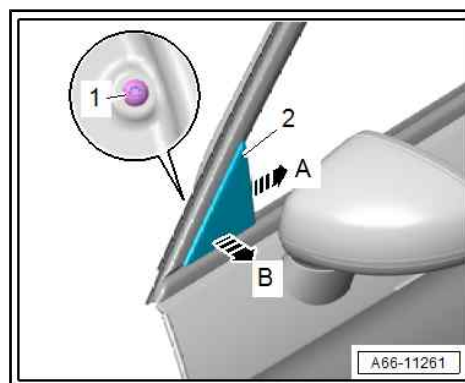
Installing

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

- Make sure that clip is pushed onto mounting on trim panel for A-pillar.

Tightening torques

- ◆ ⇒ [“3.3 Exploded view - trim panel for A-pillar”, page 226](#)





3.11 Removing and installing trim panel for B-pillar on door

⇒ **"3.11.1 Removing and installing trim panel for B-pillar (front door)", page 247**

⇒ **"3.11.2 Removing and installing trim panel for B-pillar (rear door)", page 247**

3.11.1 Removing and installing trim panel for B-pillar (front door)

Removing

- Remove door window ⇒ [page 208](#) .
- Pull seal -1- out of window guide (rear) in vicinity of trim panel for B-pillar.
- Remove bolts -arrows A-.
- Slide trim panel for B-pillar -4- downwards -arrow B-; lug -3- will be disengaged from body cut-out -2-.
- Press trim panel for B-pillar towards outside until surrounding section of trim panel for B-pillar is disengaged.
- Pull trim panel for B-pillar upwards out of door opening.

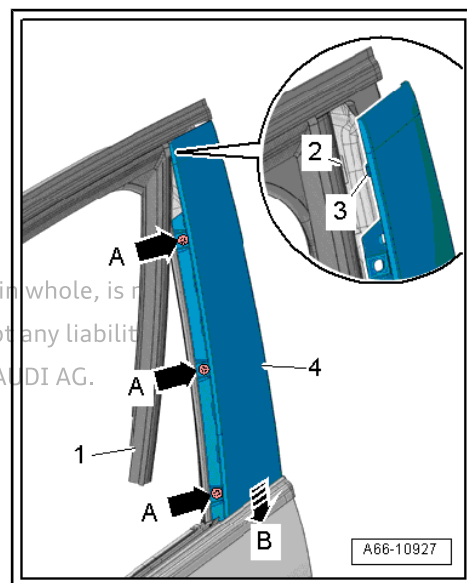
Installing

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

- When installing window guide in trim panel, coat guide in area with soap solution.

Tightening torques

- ◆ ⇒ **"3.4 Exploded view - trim panel for B-pillar", page 227**



3.11.2 Removing and installing trim panel for B-pillar (rear door)

Removing

- Remove rear door window ⇒ [page 209](#) .
- Pull seal -4- out of window guide (front) in vicinity of trim panel for B-pillar.
- Remove bolts -arrows A-.
- Slide trim panel for B-pillar -1- downwards -arrow B-; lug -2- will be disengaged from body cut-out -3-.
- Press trim panel for B-pillar towards outside until surrounding section of trim panel for B-pillar is disengaged.
- Pull trim panel for B-pillar upwards out of door opening.

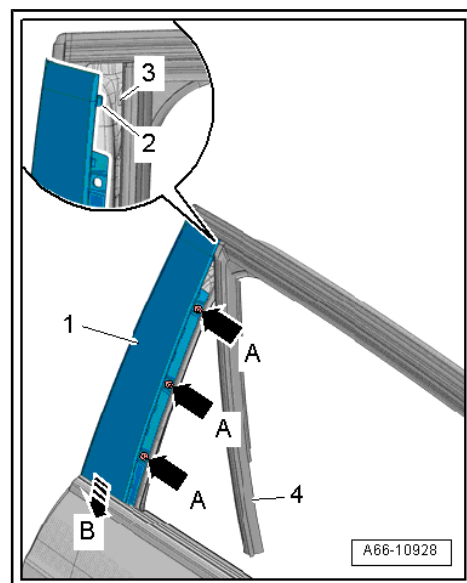
Installing

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

- When installing window guide in trim panel, coat guide in area with soap solution.

Tightening torques

- ◆ ⇒ **"3.4 Exploded view - trim panel for B-pillar", page 227**





3.12 Removing and installing trim panel for B-pillar

Special tools and workshop equipment required

- ◆ Removal wedge - 3409-



- ◆ Hot air blower - V.A.G 1416-



- ◆ Cleaning solution - D 009 401 04-

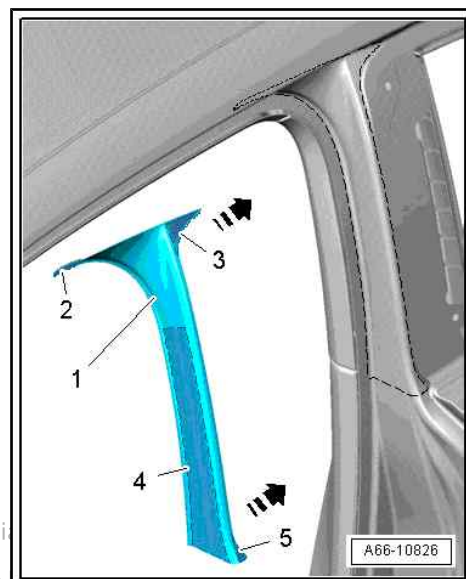
Removing

- Detach door seal in area of trim panel.
- Mark position of trim panel -1- for B-pillar prior to removal.
- Carefully heat trim panel for B-pillar with hot air blower - V.A.G 1416- .
- Carefully prise trim panel for B-pillar off B-pillar using removal wedge - 3409- .

Installing

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

- Clean bonding surface on body with cleaning solution - D 009 401 04- .
- Peel protective films off adhesive strips -2, 3, 4, 5-.
- Position trim panel for B-pillar according to marks made previously -arrows- and press on by hand.



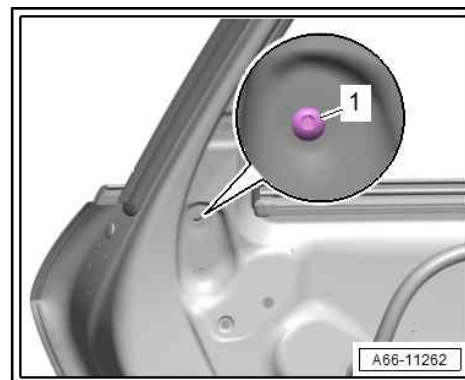
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3.13 Removing and installing trim panel for C-pillar on door

Removing

- Move door window to “open” position.
- Remove trim panel ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim (rear); Removing and installing trim panel .
- Remove bolt -1-.



- Slide trim panel for C-pillar on door -item 1- downwards -arrow-; lug -2- will be disengaged from window seal -3- and retaining pin -4- will be disengaged from body cut-out -5-.
- Pull trim panel for C-pillar on door upwards out of door opening.

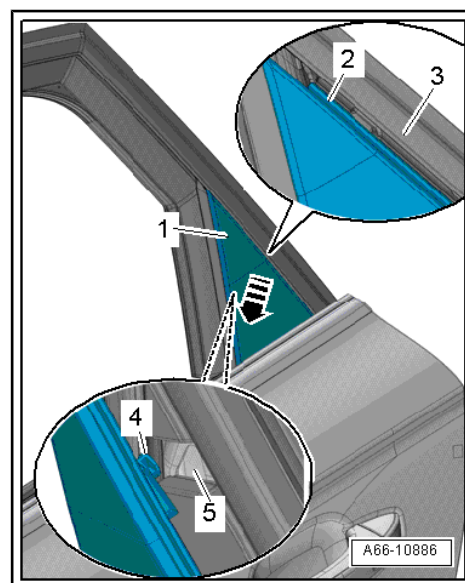
Installing

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

- Make sure that clip is pushed onto mounting on trim panel for C-pillar.

Tightening torques

- ◆ ⇒ [“3.5 Exploded view - trim panel for C-pillar”, page 228](#)



3.14 Removing and installing trim panel for C-pillar

⇒ [“3.14.1 Removing and installing C-pillar cover”, page 249](#)

⇒ [“3.14.2 Removing and installing trim panel for C-pillar”, page 250](#)

3.14.1 Removing and installing C-pillar cover

Special tools and workshop equipment required

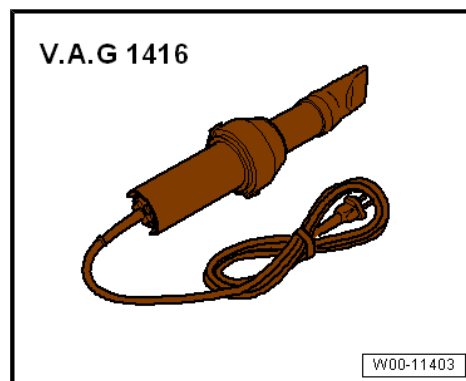
- ◆ Removal wedge - 3409-

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- ◆ Hot air blower - V.A.G 1416-



- ◆ Cleaning solution - D 009 401 04-

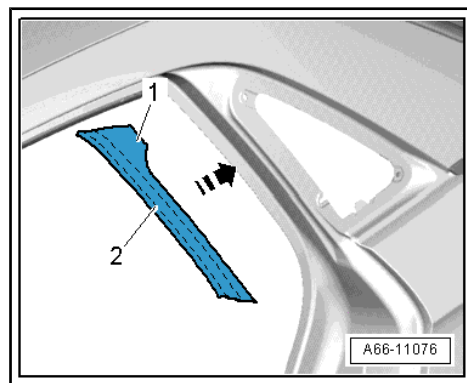
Removing

- Detach door seal in area of trim panel.
- Carefully heat C-pillar cover -1- with hot air blower - V.A.G 1416- .
- Carefully prise C-pillar cover off C-pillar using removal wedge - 3409- .

Installing

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

- Clean bonding surface on body with cleaning solution - D 009 401 04- .
- Peel protective films off adhesive strip -2-.
- Position C-pillar cover on roof side member and on C-pillar -arrow-.
- Press C-pillar cover on over entire length using roller -3356- .



3.14.2 Removing and installing trim panel for C-pillar

Special tools and workshop equipment required

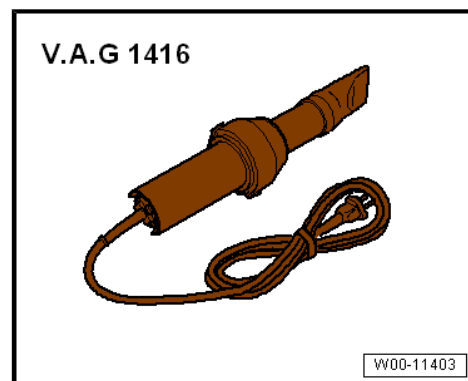
- ◆ Removal wedge - 3409-



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- ◆ Hot air blower - V.A.G 1416-



- ◆ Cleaning solution - D 009 401 04-

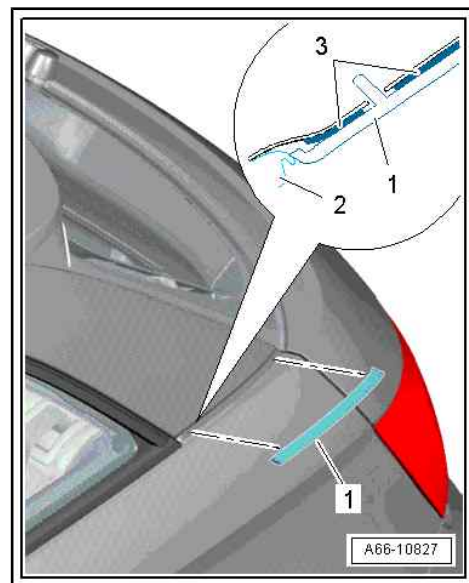
Removing

- Carefully heat trim panel -1- for C-pillar with hot air blower - V.A.G 1416- .
- Carefully prise trim panel for C-pillar off C-pillar using removal wedge - 3409- .

Installing

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

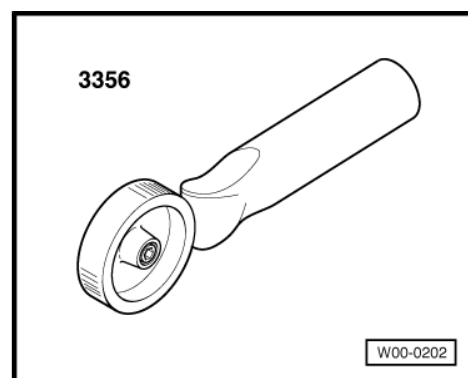
- Clean bonding surface on body with cleaning solution - D 009 401 04- .
- Peel protective films off adhesive tape -3-.
- Insert trim panel for C-pillar with centring pins into mountings on C-pillar.
- Rubber strip -2- must be above trim panel for C-pillar.
- Press trim panel for C-pillar on over entire length using roller -3356- .



3.15 Removing and installing wheel housing extension

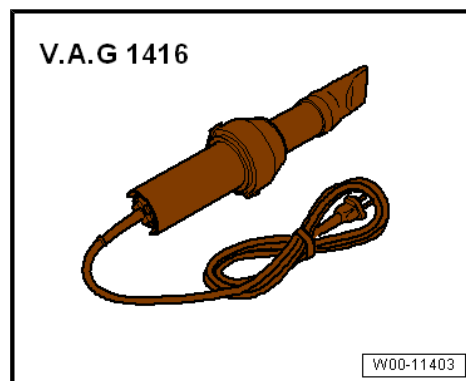
Special tools and workshop equipment required

- ◆ Roller - 3356-





◆ Hot air blower - V.A.G 1416-



3.15.1 Renewing wheel housing extension - Audi A1 quattro

1 - Wheel housing extension at wing panel (front)

□ Removing:

- Heat wheel housing extensions with a hot air blower and pull off.

□ Installing:



Note with respect to the

If a new wheel housing extension is ordered, the adhesive tape is supplied as a separate strip.

- Clean bonding area on body and wheel housing extension with cleaning solution - D 009 401 04- .

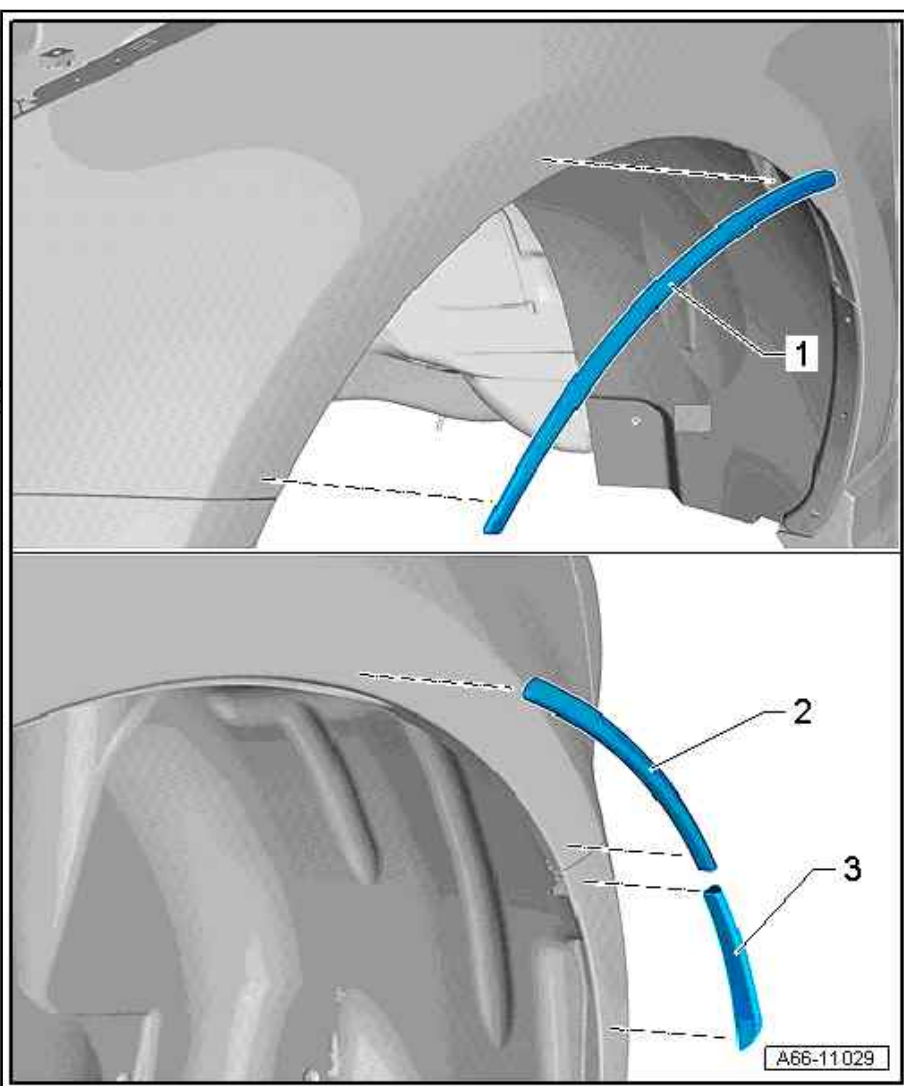
- Apply primer - D 355 205 A2- to bonding surfaces on body using applicator - D 009 500 25- and allow to flash off.

- Heat bonding area to approx. 40° C using hot air blower.

- Peel off protective film on one side of adhesive tape and bond onto wheel housing extension.

- Press on adhesive tape using roller - 3356- .

- Position wheel housing extension at transition to bumper and align.
- Gradually pull protective film off and press on wheel housing extension firmly.



2 - Wheel housing extensions at side panel (rear)

Renewing: Refer to ⇒ [Item 1 \(page 252\)](#)



3 - Wheel housing extensions at bumper cover (rear)

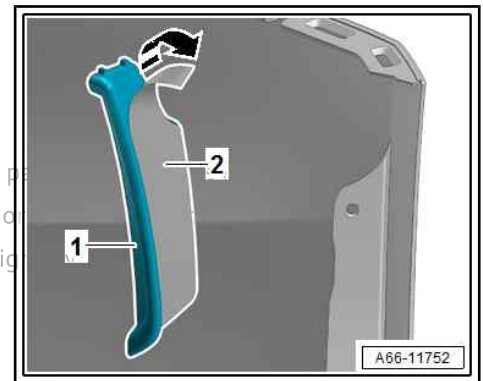
Renewing: Refer to [⇒ Item 1 \(page 252\)](#)

3.15.2 Renewing wheel housing extension - Audi S1

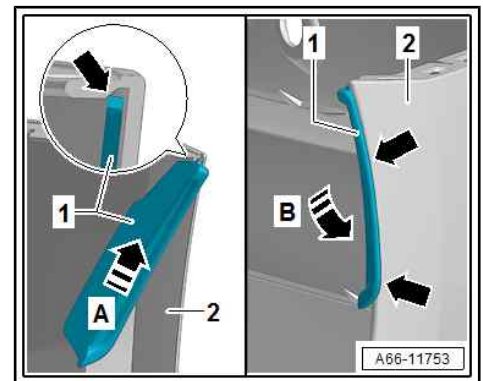
- Bumper cover removed [⇒ page 177](#)
- To remove, heat adhesive bond using hot air blower and detach.
- Clean bonding surface on bumper cover with cleaning solution - D 009 401 04- .
- Peel protective film -2- off wheel housing extension -1-.



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- Move wheel housing extension -1- upwards at an angle -arrow A- and towards rear so that it makes contact -arrows- with bumper cover -2-.
- Press wheel housing extension firmly into bumper cover -arrow B- and use roller - 3356- to ensure it is pressed in fully.





4 Noise insulation

⇒ ["4.1 Exploded view - noise insulation", page 254](#)

⇒ ["4.2 Removing and installing noise insulation", page 255](#)

4.1 Exploded view - noise insulation

⇒ ["4.1.1 Exploded view - noise insulation", page 254](#)

⇒ ["4.1.2 Exploded view - noise insulation, Audi S1", page 255](#)

4.1.1 Exploded view - noise insulation

1 - Bolt

- ☐ 2 Nm
- ☐ 9x

2 - Noise insulation

- ☐ Removing and installing
⇒ [page 255](#)

3 - Speed nut

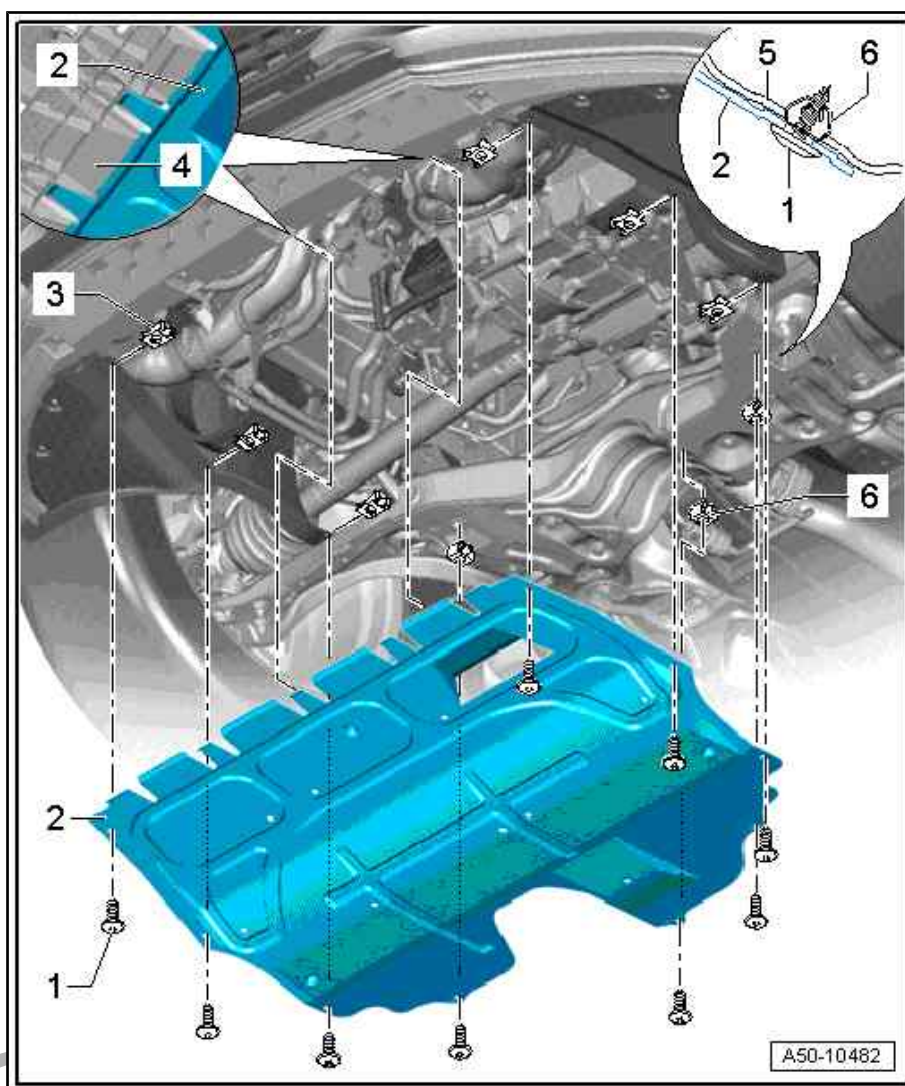
- ☐ Slide onto wheel housing liner (left and right).

4 - Closure plate

5 - Subframe

6 - Speed nut

- ☐ Fit in subframe



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4.1.2 Exploded view - noise insulation, Audi S1

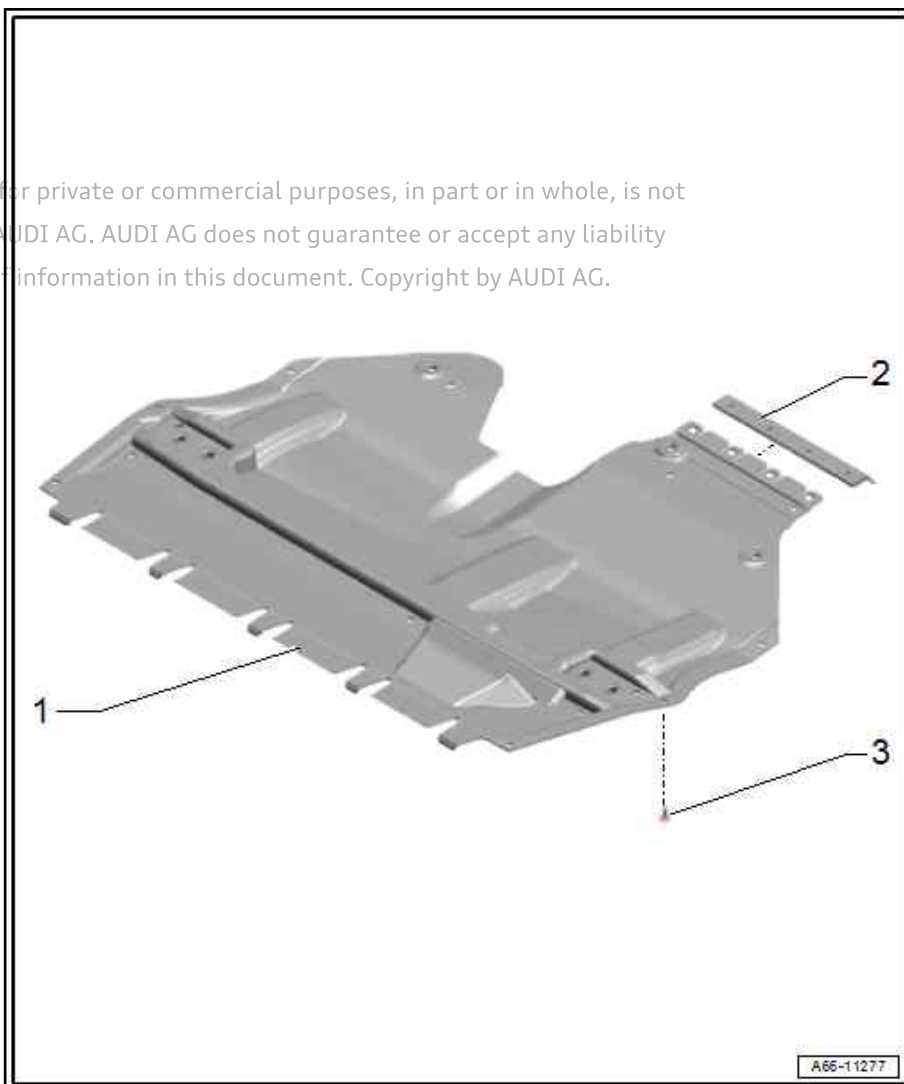
1 - Noise insulation

- ☐ Removing and installing
⇒ [page 255](#)

2 - Rubber lip

3 - Bolt

- ☐ 9x
 - ☐ 2 Nm
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4.2 Removing and installing noise insulation

Removing

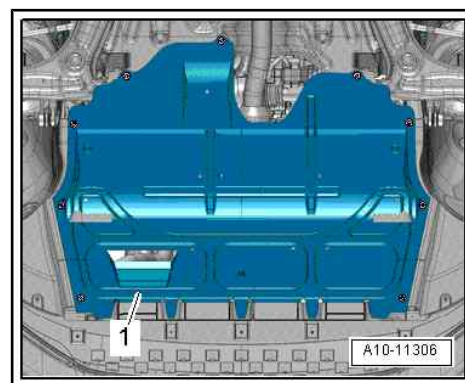
- Remove bolts.
- Pull noise insulation (front) -1- off to the rear.
- This disengages guide tabs on noise insulation (front).
- Detach noise insulation (front).

Installing

Installation is carried out in reverse sequence.

Tightening torques

- ◆ ⇒ ["4.1 Exploded view - noise insulation", page 254](#)





5 Underbody trim

⇒ ["5.1 Exploded view - underbody trim", page 256](#)

5.1 Exploded view - underbody trim

⇒ ["5.1.1 Exploded view - underbody trim", page 256](#)

⇒ ["5.1.2 Exploded view - underbody trim, tunnel cross-piece", page 257](#)

⇒ ["5.1.3 Exploded view - underbody trim, tunnel cross-piece \(Audi A1 quattro\)", page 258](#)

5.1.1 Exploded view - underbody trim

1 - Nut

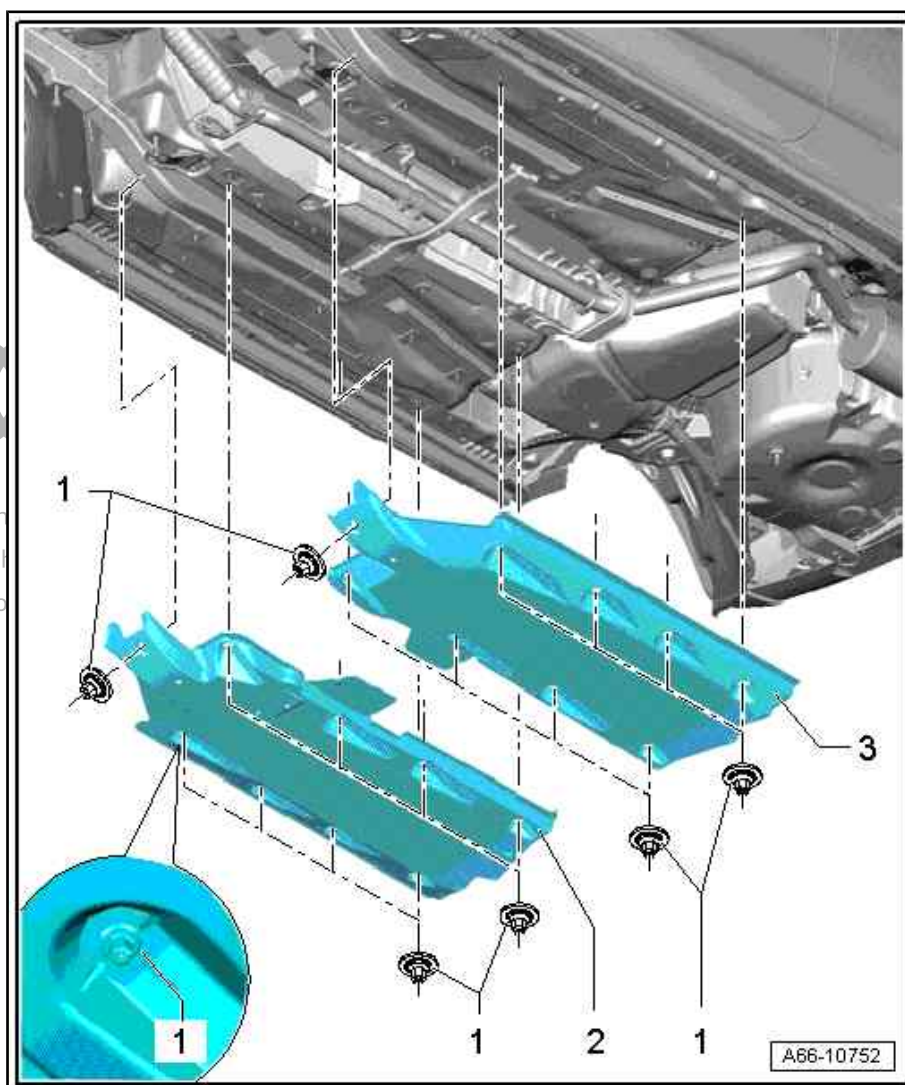
- 9x on each side
- 2 Nm

2 - Underbody trim (right-side)

- Unscrew nuts and detach underbody trim.

3 - Underbody trim (left-side)

- Unscrew nuts and detach underbody trim.



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5.1.2 Exploded view - underbody trim, tunnel cross-piece

1 - Tunnel cross-piece (front)

2 - Nut

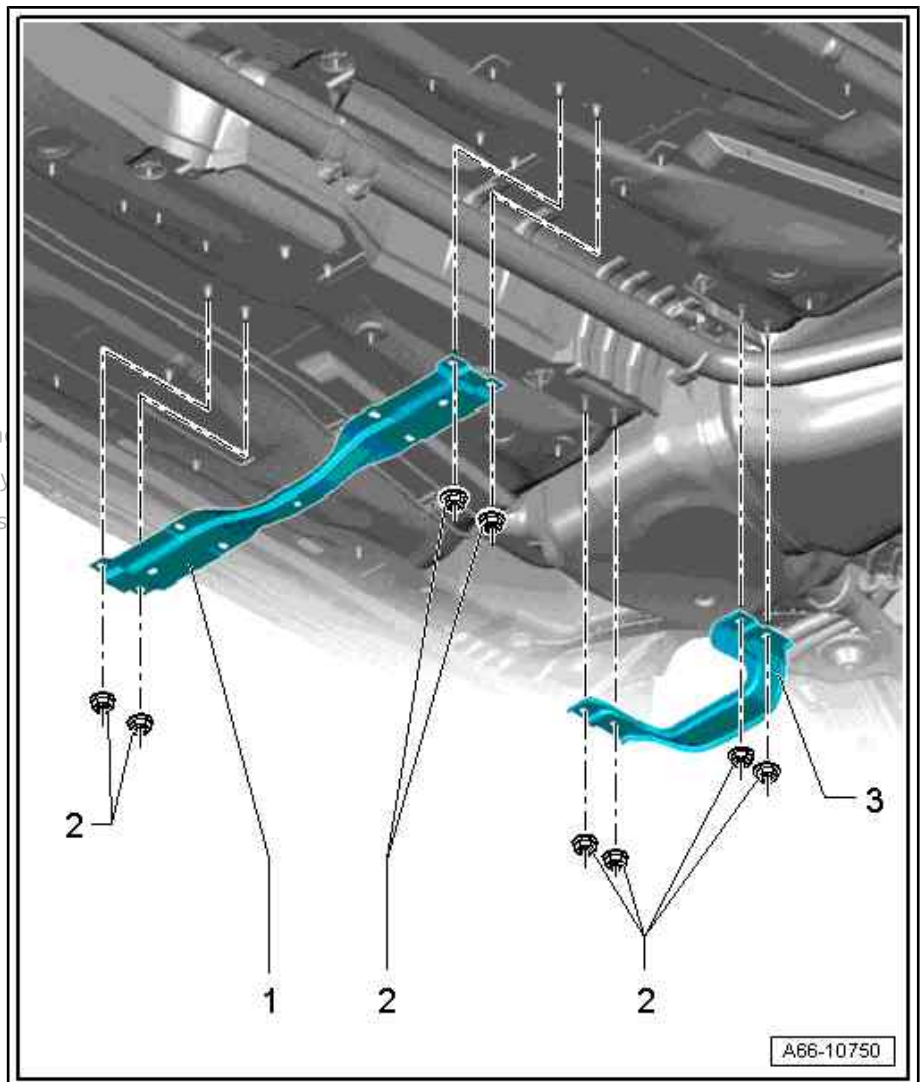
□ 20 Nm

3 - Tunnel cross-piece (rear)

□ With integrated spoiler



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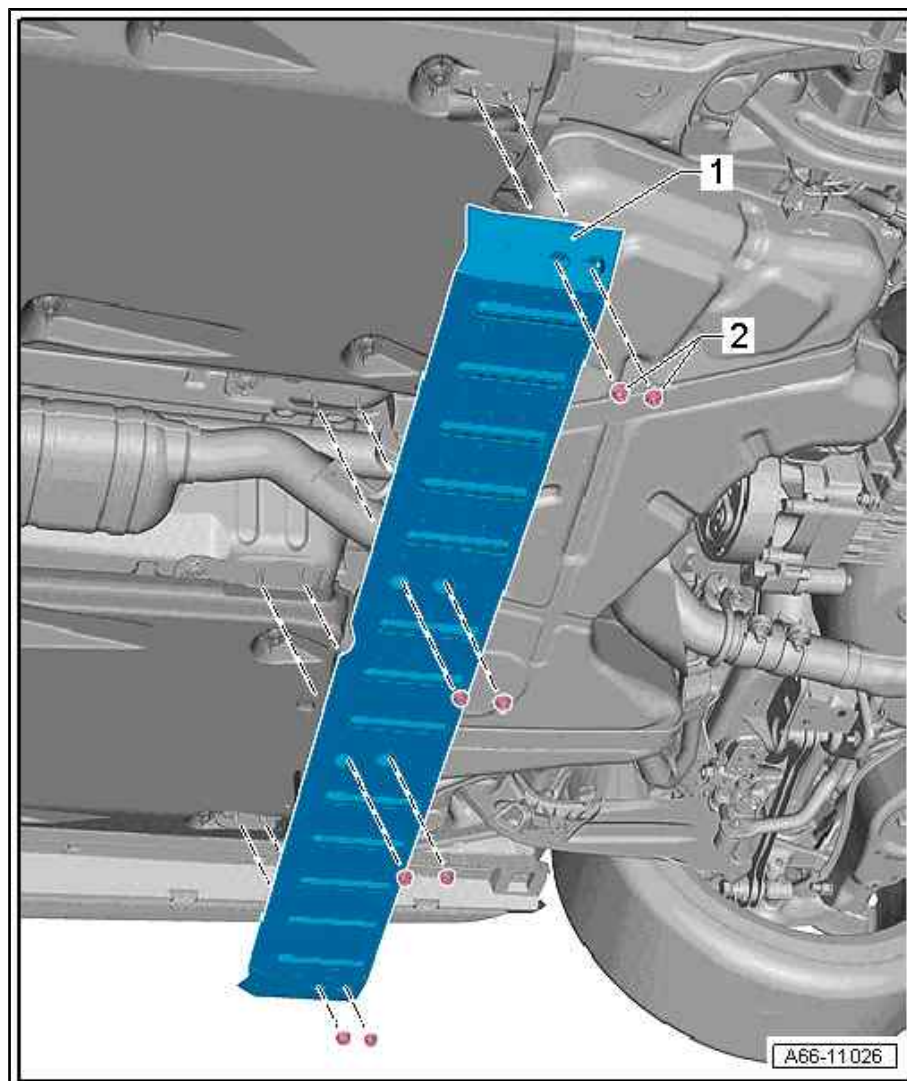
5.1.3 Exploded view - underbody trim, tunnel cross-piece (Audi A1 quattro)

1 - Tunnel cross-piece

- Unscrew nuts and detach tunnel cross-piece.

2 - Nut

- 20 Nm



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6 Decorative film / protective film

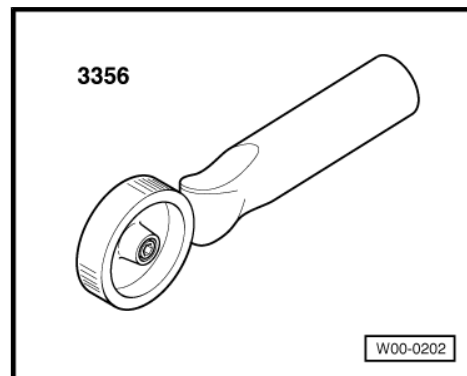
⇒ ["6.1 Renewing foil for edge of roof", page 259](#)

⇒ ["6.2 Removing and installing protective films", page 260](#)

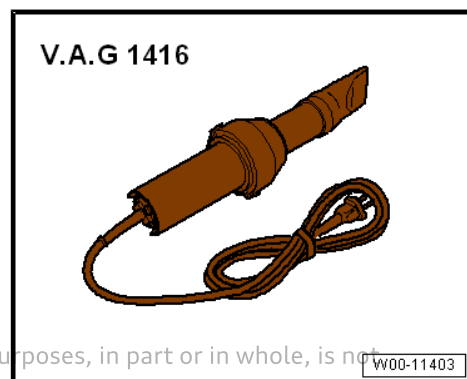
6.1 Renewing foil for edge of roof

Special tools and workshop equipment required

◆ Roller - 3356-



◆ Hot air blower - V.A.G 1416-



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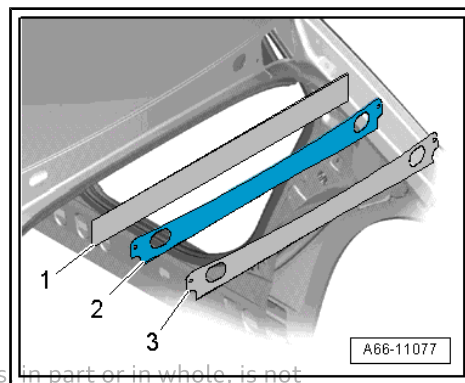
◆ Cleaning solution - D 009 401 04-

Procedure

- Heat foil with a hot air blower - V.A.G 1416- and pull foil off roof.
- Remove any adhesive residue and clean bonding surface with cleaning solution - D 009 401 04- .
- Make mark centrally between the two holes at edge of roof.



- Also make mark centrally between holes in foil on protective film -3-.
- Lift off protective film -1- slightly in centre and cut through film with scissors.
- Kink side sections of protective film (removal aids) so they can be taken hold of when they make contact between foil and edge of roof.
- Position foil so that marking on protective film -3- is aligned with marking in centre of roof edge and foil is aligned with vehicle contour.
- Starting in centre and working outwards in both directions, gradually peel off protective film -1- and press on foil.
- Firmly press on foil using roller - 3356- .
- Detach protective film -3-.



6.2 Removing and installing protective films

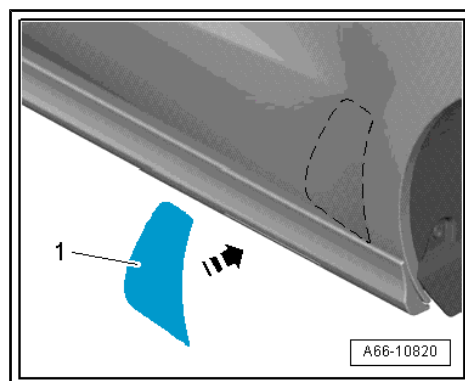
Procedure



Note

Before attaching the protective film, the component must have a temperature of between 20° C and 60° C.

- Clean bonding surface with cleaning solution - D 009 401 04- .
- Moisten bonding surface with soap solution.
- Detach backing from film and also moisten its bonding surface with soap solution.
- Align film according to rear edge of wheel housing and edge of side member and press on.
- Starting from centre, press out water film between protective film and body.
- Carefully pierce open any remaining air blisters with a needle and press film on again.





7 Roof strips / roof rails

⇒ [“7.1 Exploded view - roof trim strip”, page 261](#)

⇒ [“7.2 Removing and installing roof trim strip”, page 263](#)

7.1 Exploded view - roof trim strip

⇒ [“7.1.1 Exploded view - roof trim strip, roof joint moulding, vehicles without sliding/tilting sunroof”, page 261](#)

⇒ [“7.1.2 Exploded view - roof trim strip, roof joint moulding, vehicles with sliding/tilting sunroof”, page 262](#)

7.1.1 Exploded view - roof trim strip, roof joint moulding, vehicles without sliding/tilting sunroof

1 - Roof joint moulding

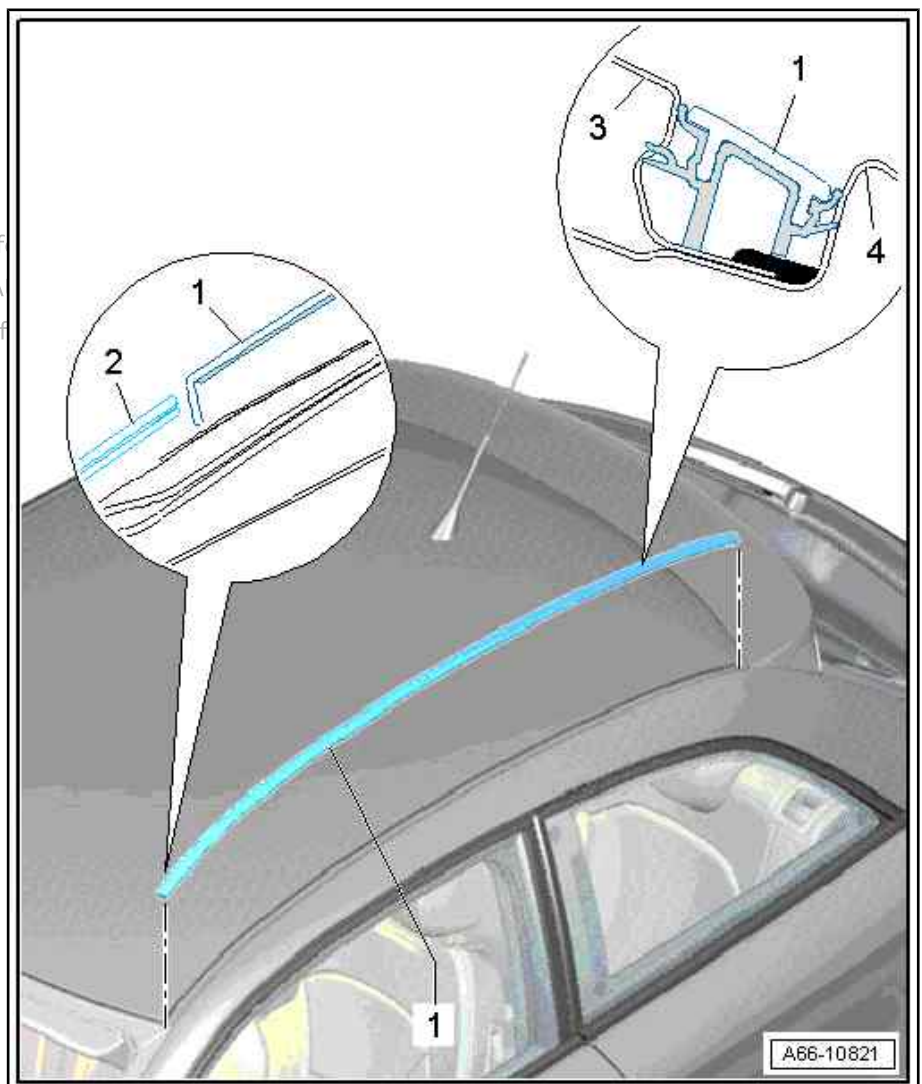
- Removing and installing
⇒ [page 263](#)

2 - Windscreen

3 - Roof

4 - Side panel

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7.1.2 Exploded view - roof trim strip, roof joint moulding, vehicles with sliding/tilting sunroof

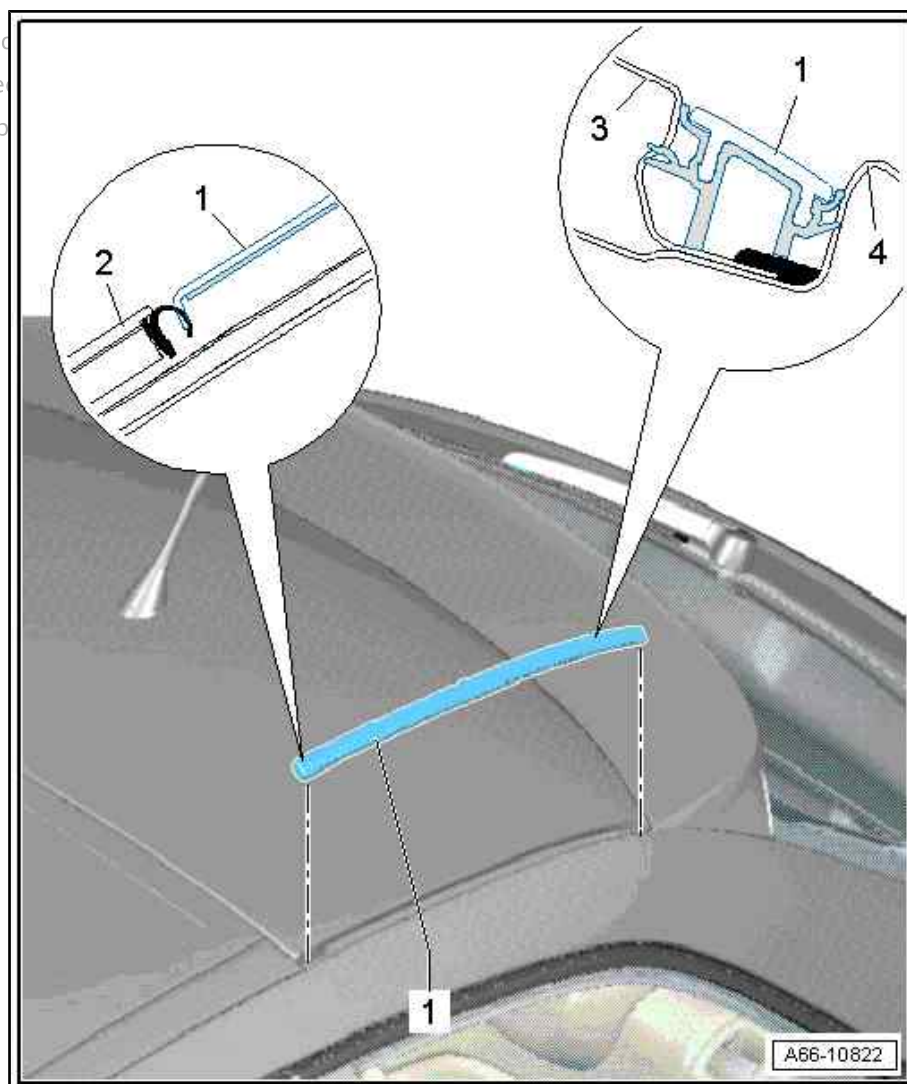
1 - Roof joint moulding

- Removing and installing
⇒ [page 263](#)

2 - Trim panel for sliding/tilting sunroof

3 - Roof

4 - Side panel





7.2 Removing and installing roof trim strip

⇒ [“7.2.1 Removing and installing roof joint moulding - vehicles without sliding/tilting sunroof”, page 263](#)

⇒ [“7.2.2 Removing and installing roof joint moulding - vehicles with sliding/tilting sunroof”, page 263](#)

7.2.1 Removing and installing roof joint moulding - vehicles without sliding/tilting sunroof

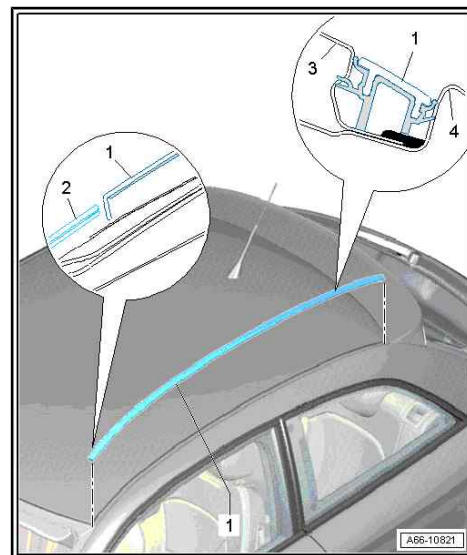
Removing

- Starting at rear, prise out of roof joint.

Installing

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

- Apply soap solution or similar to sealing strip of roof joint moulding.
- Align sealing strip of roof joint moulding with rear edge of roof and press completely into roof joint towards front.



7.2.2 Removing and installing roof joint moulding - vehicles with sliding/tilting sunroof

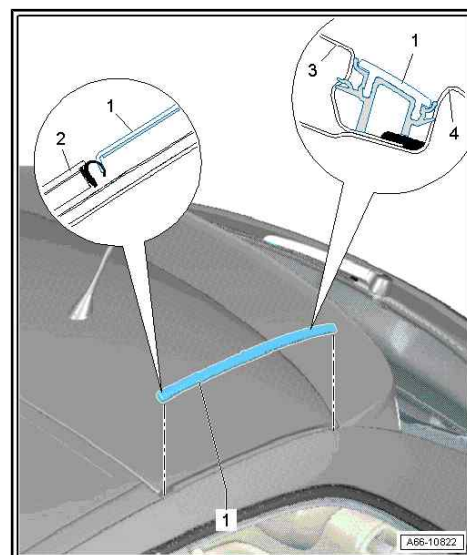
Removing

- Starting at rear, prise out of roof joint.

Installing

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

- Apply soap solution or similar to sealing strip of roof joint moulding.
- Align sealing strip of roof joint moulding with rear edge of roof and press completely into roof joint towards front.





8 Exterior mirrors

⇒ ["8.1 Exploded view - exterior mirror", page 264](#)

⇒ ["8.2 Removing and installing mirror glass", page 265](#)

⇒ ["8.3 Removing and installing cover for mirror", page 266](#)

⇒ ["8.4 Removing and installing exterior mirror", page 268](#)

⇒ ["8.5 Removing and installing mirror adjustment unit", page 268](#)

8.1 Exploded view - exterior mirror

⇒ ["8.1.1 Exploded view - exterior mirror, part 1", page 264](#)

⇒ ["8.1.2 Exploded view - exterior mirror, part 2", page 265](#)

8.1.1 Exploded view - exterior mirror, part 1

1 - Cover for mirror

- ❑ Removing and installing
⇒ [page 266](#)

2 - Exterior mirror

- ❑ Removing and installing
⇒ [page 268](#)

3 - Mirror adjustment unit

- ❑ Removing and installing
⇒ [page 268](#)

4 - Spring

- ❑ When installing mirror glass, friction fingers must be inserted in spring ⇒ [page 266](#).

5 - Bolt

- ❑ 1 Nm

6 - Mirror trim

- ❑ Mirror glass removed
- Remove bolts -7- and pull off towards rear
⇒ [page 266](#)

7 - Bolt

- ❑ 1 Nm

8 - Mirror glass

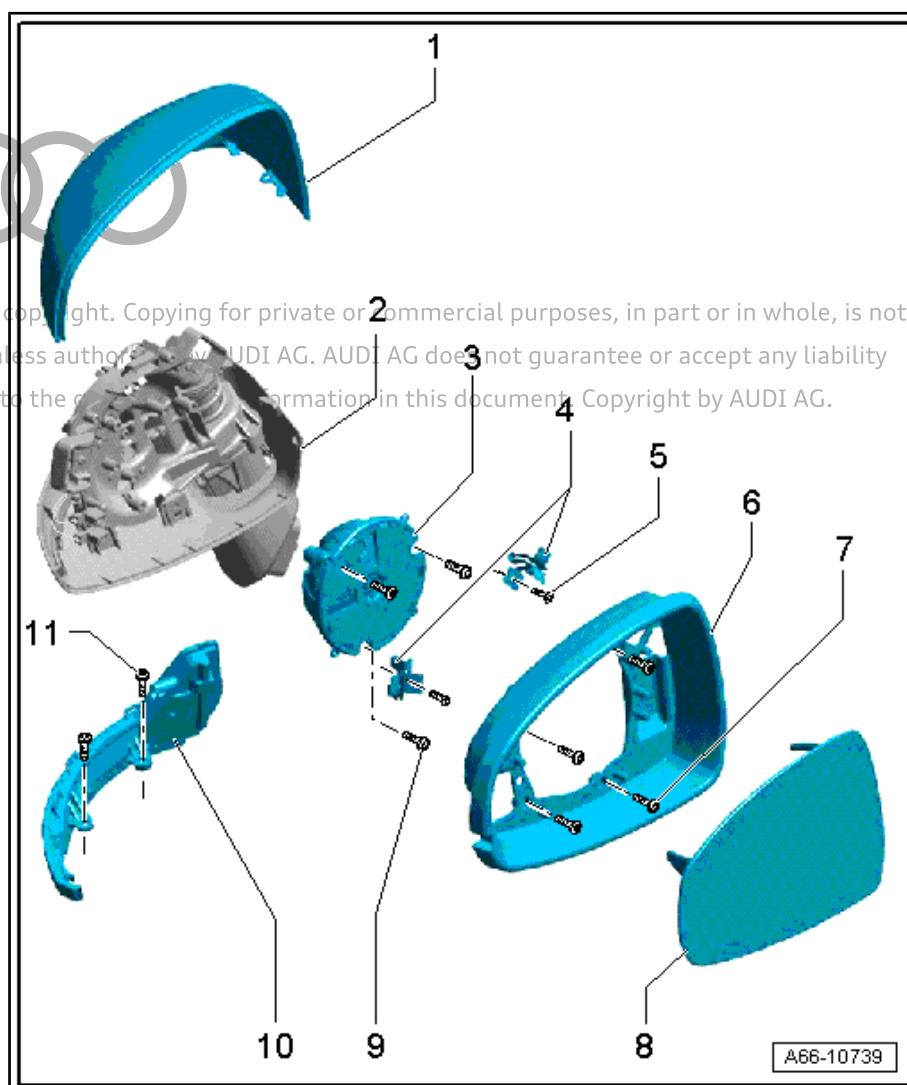
- ❑ Removing and installing
⇒ [page 265](#)

9 - Bolt

- ❑ 1x or 3x (depending on equipment version)
- ❑ 1.5 Nm

10 - Turn signal repeater bulb in exterior mirror

- ❑ Removing and installing ⇒ Electrical system; Rep. gr. 94 ; Lights in exterior mirror; Removing and installing turn signal repeater bulb -L131- / -L132-





8.1.2 Exploded view - exterior mirror, part 2

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1 - Door

2 - Exterior mirror

3 - Threaded pin

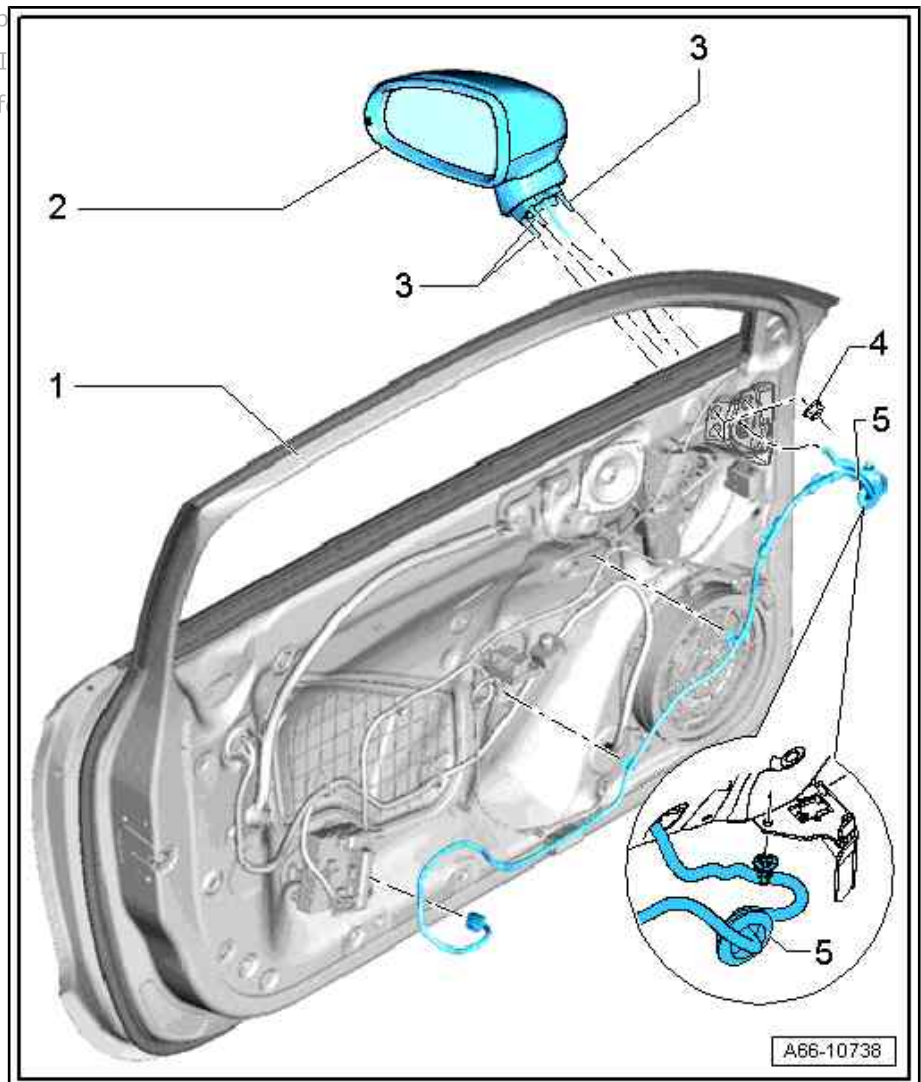
4 - Nut

□ 3x

□ 6 Nm

5 - Grommet

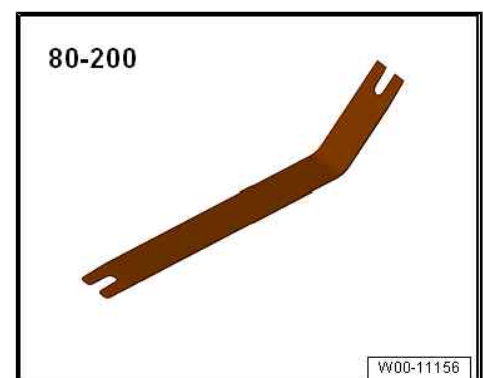
□ When installing, make sure grommet is seated correctly in inner door panel.



8.2 Removing and installing mirror glass

Special tools and workshop equipment required

◆ Removal lever - 80 - 200-



◆ Protective gloves



Removing



WARNING

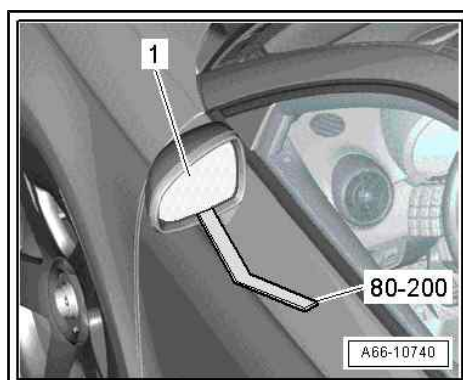
- ◆ *Risk of injury - wear protective gloves.*



Note

Mask area around mirror housing with adhesive tape to protect paintwork.

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



- Unplug electrical connectors -2- for mirror glass heating on rear of mirror glass -1-.

Installing

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

- Friction fingers must be inserted in friction spring -arrows-.

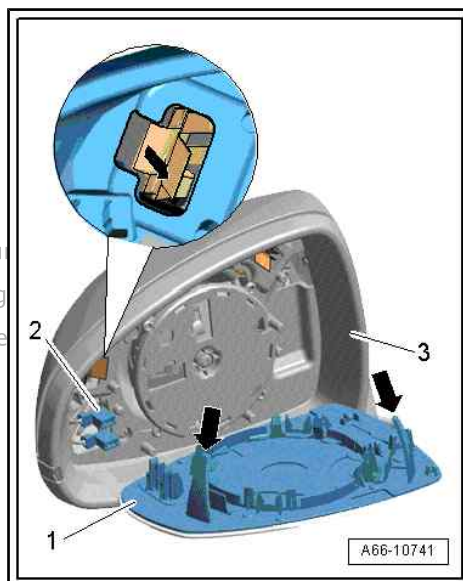


Note

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

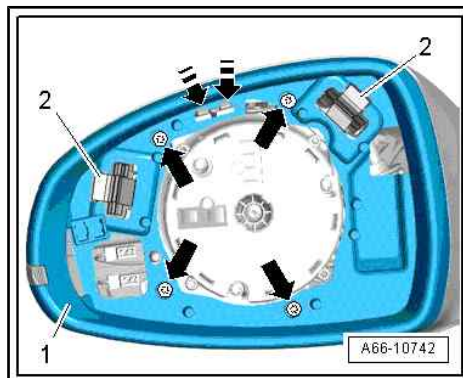
- Position mirror glass at mirror adjustment unit and press mirror glass on.



8.3 Removing and installing cover for mirror

Removing

- Remove mirror glass ⇒ [page 265](#) .
- Unscrew bolts -arrows- for cover -1-.
- Release fasteners at top edge of mirror -arrows- downwards and pull cover off housing.



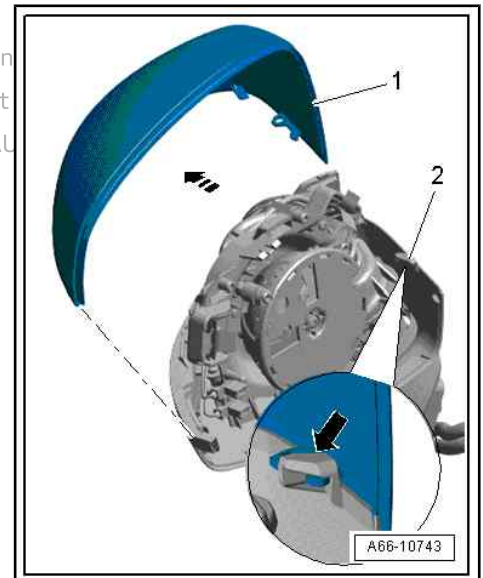
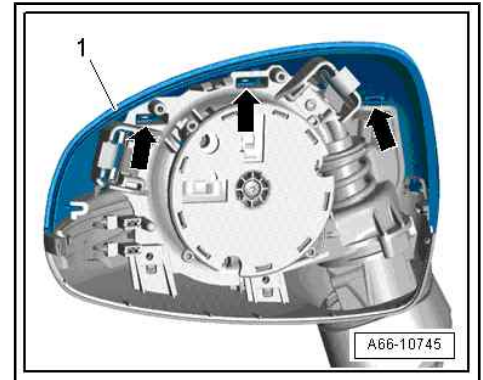


- Release fasteners -arrows- for housing.



- Pull housing -1- off exterior mirror -2- in direction of arrow.

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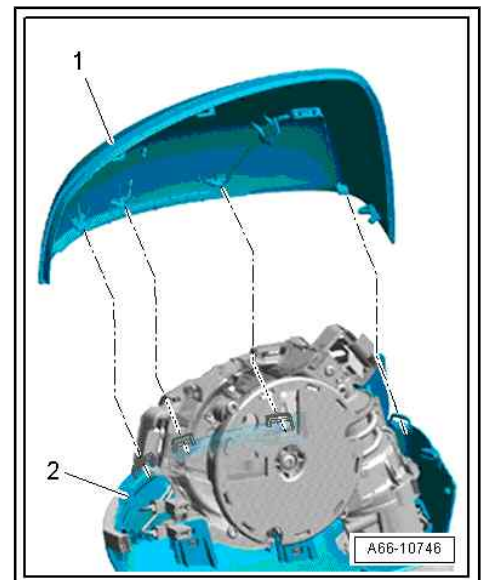


Installing

- When installing, guides -1- for cover for mirror must be inserted correctly in exterior mirror housing -2- at sides and bottom.

Tightening torques

- ♦ ⇒ [“8.1 Exploded view - exterior mirror”, page 264](#)

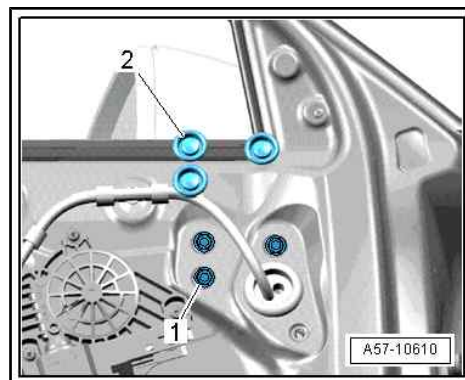




8.4 Removing and installing exterior mirror

Removing

- Remove door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim (front); Removing and installing door trim (front) .
- Close door window completely.
- Disconnect electrical wiring at door control unit and unclip completely from inner door panel.
- Remove mid-range/bass loudspeaker (front) ⇒ Communication; Rep. gr. 91 ; Sound system; Overview of fitting locations - sound system .
- Prise grommets -2- out of inner door panel in area of exterior mirror.
- Remove nuts -1-.
- Detach mounting for mirror adjustment unit and at the same time guide wiring harness out through door opening.



Installing

Installation is carried out in reverse sequence.

Tightening torques

- ♦ ⇒ ["8.1 Exploded view - exterior mirror", page 264](#)

8.5 Removing and installing mirror adjustment unit

Removing

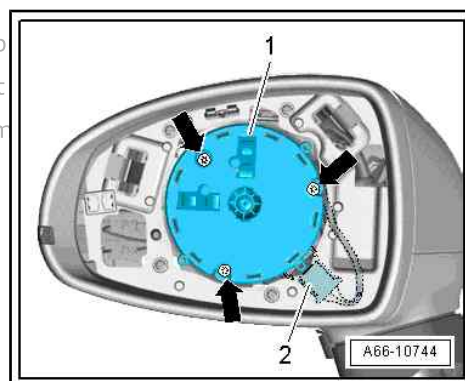
- Remove mirror glass ⇒ [page 265](#) .
- Unscrew bolts -arrows- for mirror adjustment unit -1-.



Note

Depending on the equipment version, the mirror adjustment unit is secured with 1 or 3 bolts.

- Pull mirror adjustment unit with electrical connector -2- out of housing.
- Unplug electrical connector -1- at mirror adjustment unit -2-.

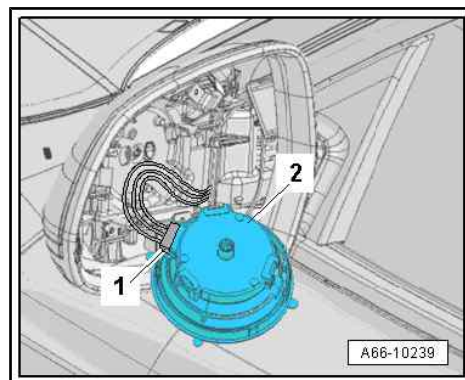


Installing

- Install in reverse order.

Tightening torques

- ♦ ⇒ ["8.1 Exploded view - exterior mirror", page 264](#)





9 Wheel housing liners

⇒ ["9.1 Exploded view - wheel housing liner \(front\)", page 269](#)

⇒ ["9.2 Exploded view - wheel housing liner \(rear\)", page 271](#)

⇒ ["9.3 Removing and installing wheel housing liner \(rear\)", page 273](#)

9.1 Exploded view - wheel housing liner (front)

⇒ ["9.1.1 Exploded view - wheel housing liner \(front\), version 1", page 269](#)

⇒ ["9.1.2 Exploded view - wheel housing liner \(front\), version 2", page 270](#)

9.1.1 Exploded view - wheel housing liner (front), version 1

1 - Bolt

- ☐ 1.5 Nm

2 - Wheel housing liner (front)

- ☐ Removing:
- ☐ Set front wheel to appropriate angle.
- ☐ Unscrew bolts on wheel housing liner (bottom).
- ☐ Release retaining clips ⇒ [page 270](#).
- Disengage wheel housing liner from wing and pull it out downwards.
- ☐ Installing: in reverse order of removal

3 - Clip with T-bolt

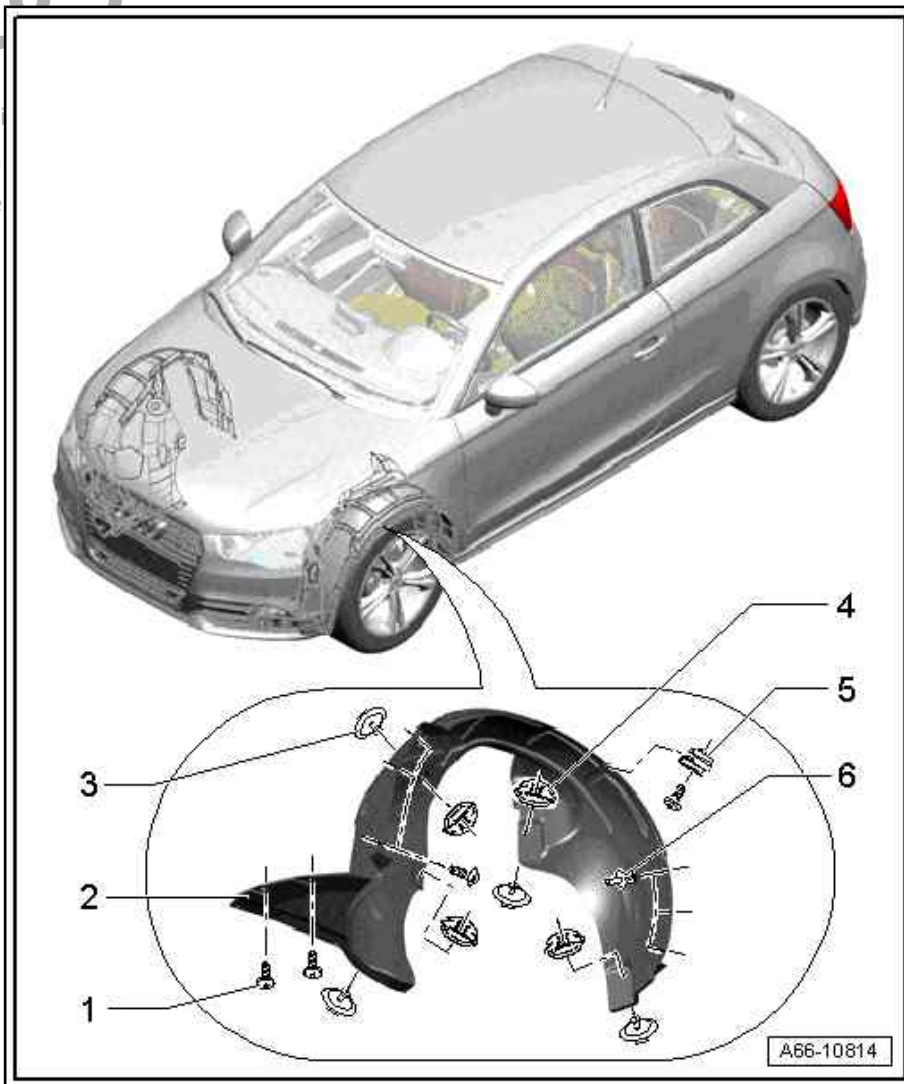
4 - Retaining clip

- ☐ Releasing ⇒ [page 270](#)

5 - Retainer

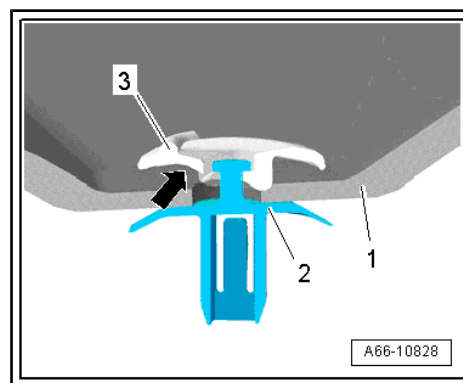
- ☐ For securing wheel housing liner to wing

6 - Spreader rivet



**Releasing retaining clip**

- Insert a small screwdriver between clip -3- and wheel housing liner -1- from the side and release.
- Slide clip off T-bolt -2- to side.

**9.1.2 Exploded view - wheel housing liner (front), version 2****1 - Bolt**

- 2 Nm

2 - Wheel housing liner (front)**3 - Expanding nut**

- Electronics box may be fitted in place of expanding nut
- Different versions ⇒ Electronic parts catalogue

4 - Bolt

- 2 Nm

5 - Retainer

- For securing wheel housing liner to wing

6 - Expanding nut**7 - Spreader rivet****8 - Bolt**

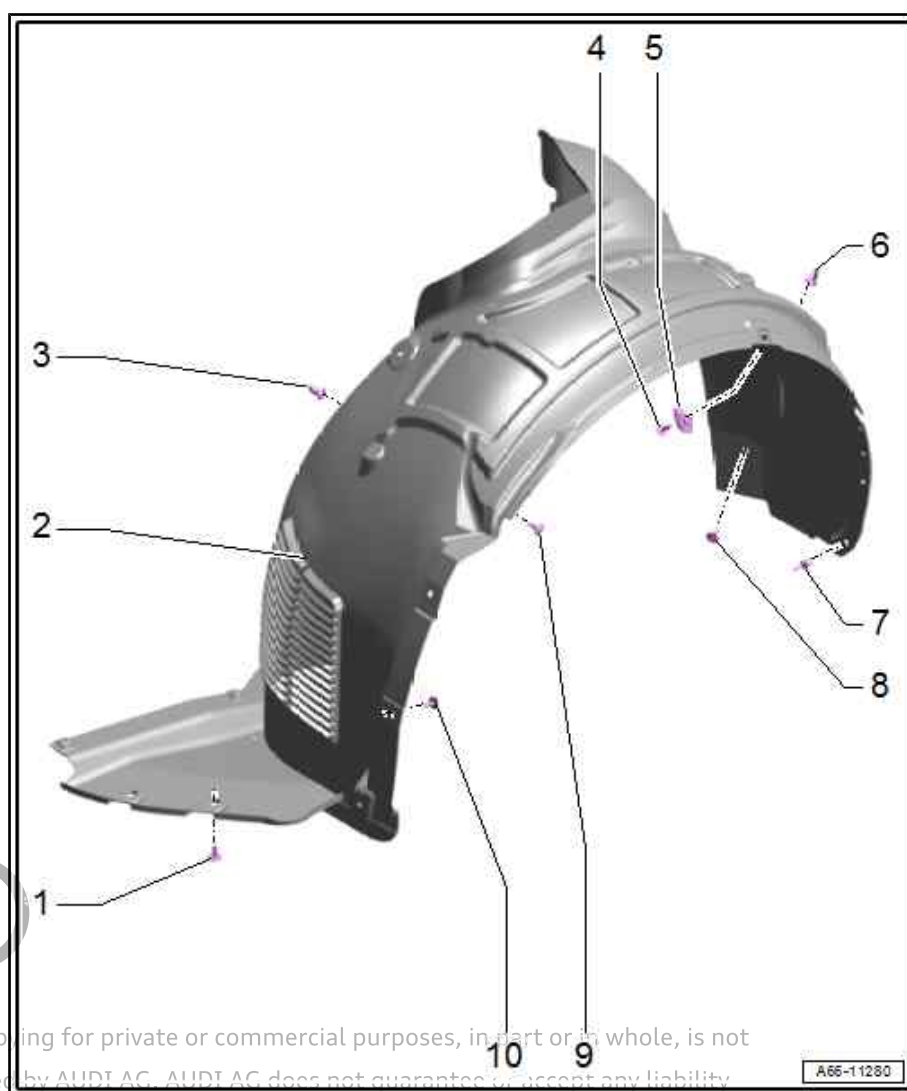
- 2 Nm

9 - Bolt

- 2 Nm

10 - Bolt

- 2 Nm



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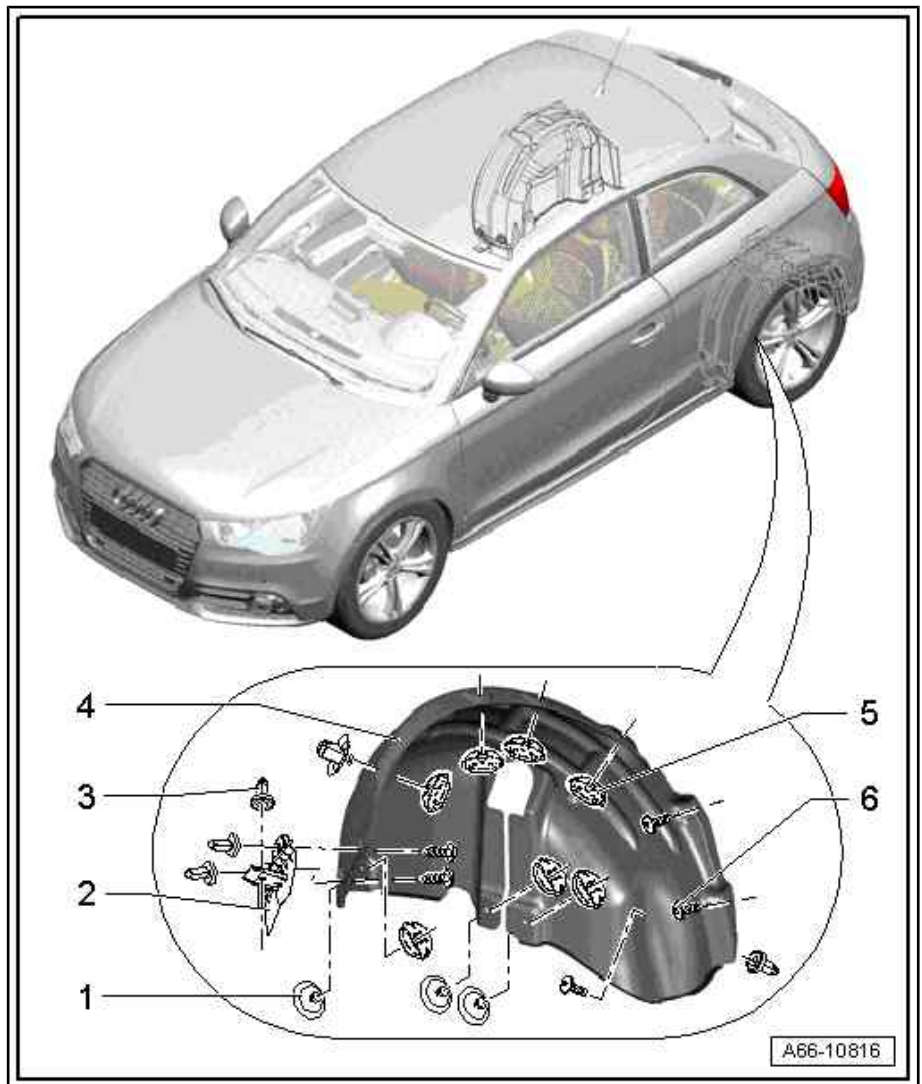
9.2 Exploded view - wheel housing liner (rear)

⇒ "9.2.1 Exploded view - wheel housing liner (rear), version 1", page 271

⇒ "9.2.2 Exploded view - wheel housing liner (rear), version 2", page 272

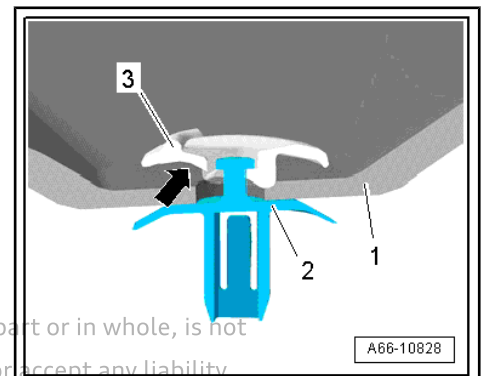
9.2.1 Exploded view - wheel housing liner (rear), version 1

- 1 - Clip with T-bolt
- 2 - Wheel spoiler (rear)
 - ☐ Removing and installing
⇒ page 273
- 3 - Expanding nut
- 4 - Wheel housing liner (rear)
 - ☐ Removing:
 - Rear wheel removed
 - Unscrew outer bolts.
 - Release retaining clips
⇒ page 271 .
 - Take out wheel housing liner downwards.
 - ☐ Installing: in reverse order of removal
- 5 - Retaining clip
 - ☐ Releasing ⇒ page 271
- 6 - Bolts
 - ☐ 1.5 Nm



Releasing retaining clip

- Insert a small screwdriver between clip -3- and wheel housing liner -1- from the side and release.
- Slide clip off T-bolt -2- to side.

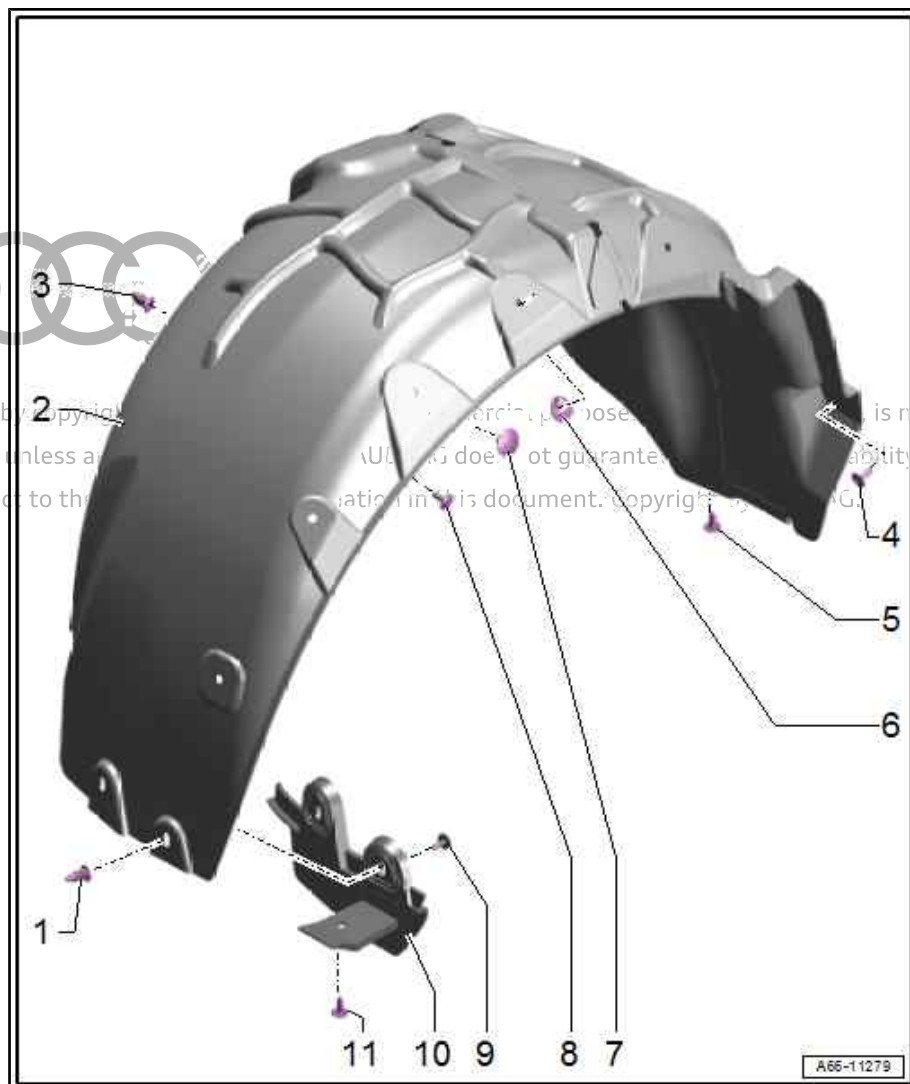


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9.2.2 Exploded view - wheel housing liner (rear), version 2

- 1 - Expanding nut
- 2 - Wheel housing liner (rear)
- 3 - Expanding nut
- 4 - Bolt
 - ☐ 2 Nm
- 5 - Bolt
 - ☐ 2 Nm
- 6 - Retaining clip
 - ☐ Releasing ⇒ [page 271](#)
- 7 - Clip
 - ☐ A bolt may be fitted in place of clip; tightening torque: 2 Nm
 - ☐ Different versions ⇒ Electronic parts catalogue
- 8 - Bolt
 - ☐ 2 Nm
- 9 - Bolt
 - ☐ 2 Nm
- 10 - Wheel spoiler (rear)
 - ☐ Removing and installing ⇒ [page 273](#)
- 11 - Bolt
 - ☐ 2 Nm





9.3 Removing and installing wheel housing liner (rear)

⇒ ["9.3.1 Removing and installing wheel spoiler \(rear\)", page 273](#)

⇒ ["9.3.2 Removing and installing rear spoiler", page 274](#)

9.3.1 Removing and installing wheel spoiler (rear)

1 - Wheel spoiler (rear)

- Unscrew bolts -2- and -5- and pull out wheel spoiler between wheel housing and wheel housing liner.

2 - Bolt

- 2 Nm

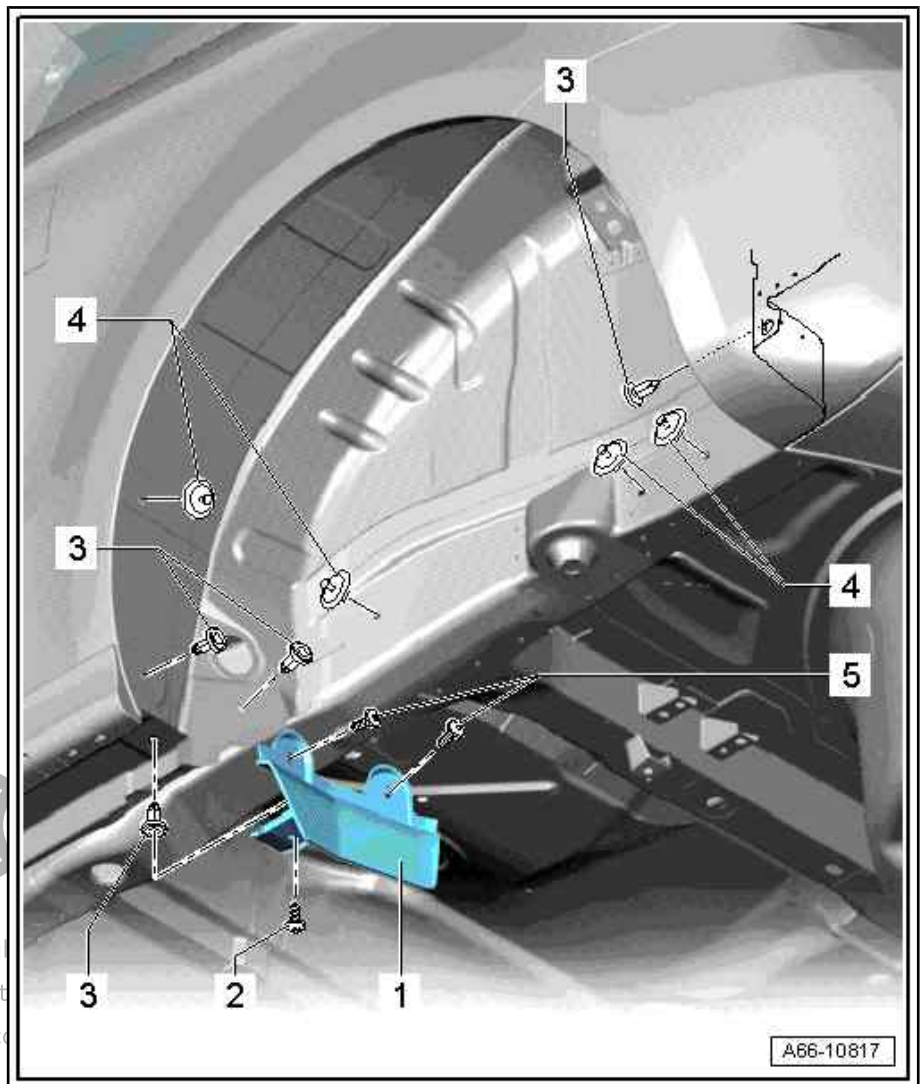
3 - Clip

4 - Stud

- Depending on equipment version: Expanding nut may be fitted
- For securing wheel housing liner
- Inserted in body

5 - Bolt

- 2 Nm



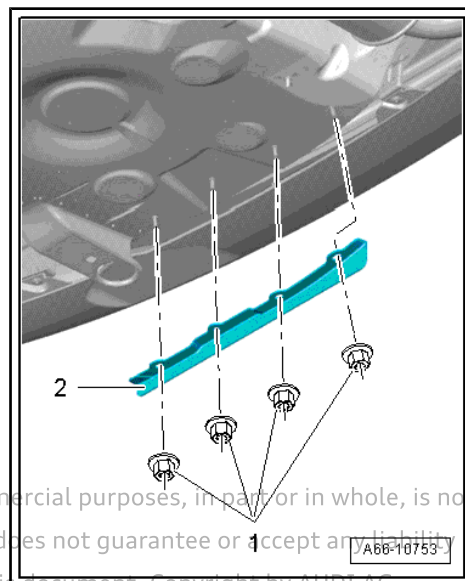
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9.3.2 Removing and installing rear spoiler

Procedure

- Unscrew nuts -1- and pull spoiler -2- off retaining pins at spare wheel well.



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10 Model badges and brand emblems

⇒ ["10.1 Exploded view - model badges and brand emblems", page 275](#)

⇒ ["10.2 Removing and installing emblems", page 275](#)

⇒ ["10.3 Dimensions - model badges and brand emblems on rear lid", page 276](#)

⇒ ["10.4 Dimensions - model badges and brand emblems on wings", page 279](#)

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10.1 Exploded view - model badges and brand emblems

1 - Audi emblem

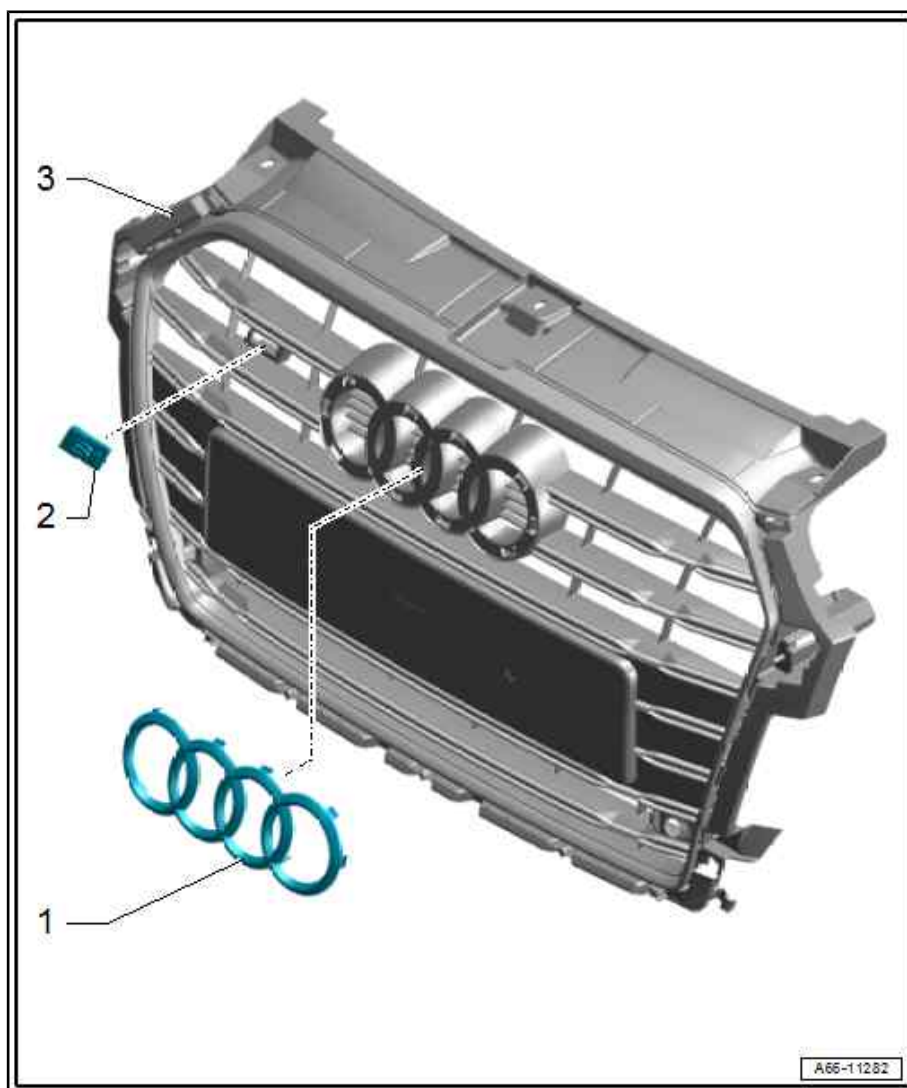
- ☐ Removing and installing
⇒ [page 275](#)

2 - S1 emblem

- ☐ Equipment version
- ☐ Removing and installing
⇒ [page 276](#)

3 - Radiator grille

- ☐ Exploded view
⇒ [page 211](#)



10.2 Removing and installing emblems

⇒ ["10.2.1 Removing and installing front emblem", page 275](#)

⇒ ["10.2.2 Removing and installing S1 emblem", page 276](#)

10.2.1 Removing and installing front emblem

Removing

- Remove bumper cover (front) ⇒ [page 162](#) .

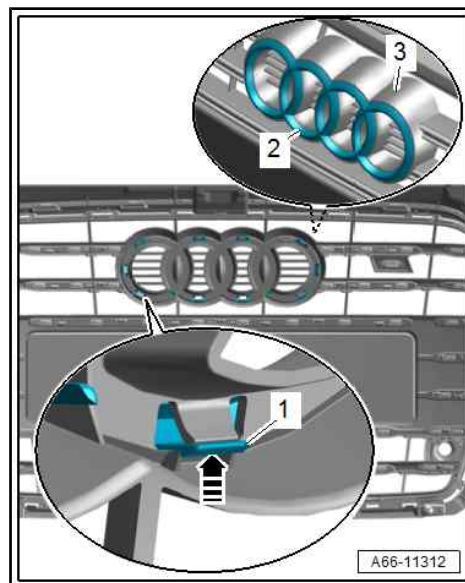


- To release, press retaining catch -1- carefully in direction of -arrow-.
- Detach Audi emblem -2- from radiator grille -3-.

Installing

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

- Press on emblem until it engages audibly.



10.2.2 Removing and installing S1 emblem

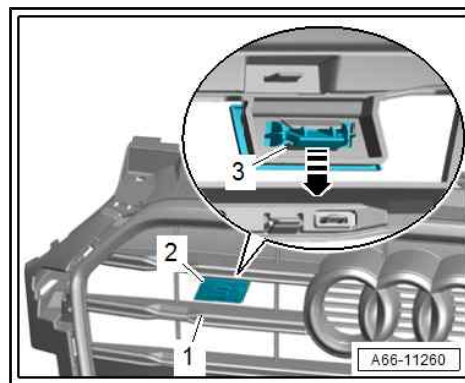
Removing

- Remove bumper cover (front) ⇒ [page 162](#) .
- Release fastener -3- -arrow-.
- Take emblem -2- out of radiator grille -1-.

Installing

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

- Position emblem on radiator grille and press it on until it engages audibly.



10.3 Dimensions - model badges and brand emblems on rear lid

⇒ ["10.3.1 General notes", page 276](#)

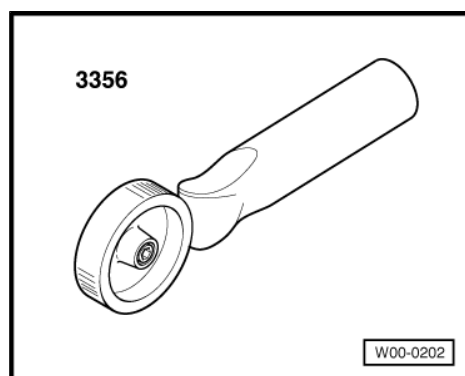
⇒ ["10.3.2 Dimensions - model badges and brand emblems on rear lid", page 277](#)

⇒ ["10.3.3 Dimensions - model badges and brand emblems on rear lid, Audi A1 quattro", page 279](#)

10.3.1 General notes

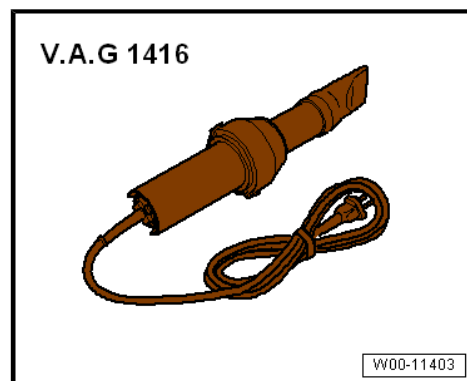
Special tools and workshop equipment required

- ◆ Roller - 3356-





- ◆ Hot air blower - V.A.G 1416-



- ◆ Cleaning solution - D 009 401 04-



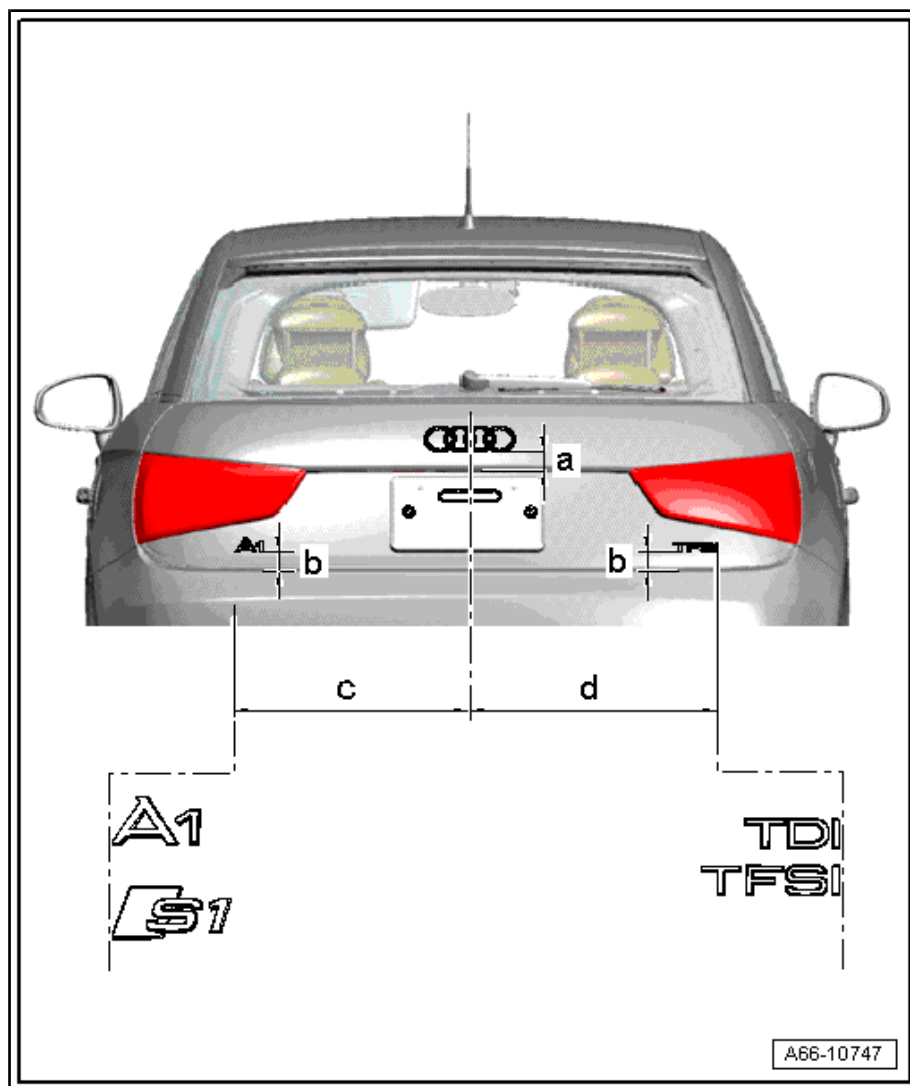
Caution

- ◆ *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.*

10.3.2 Dimensions - model badges and brand emblems on rear lid



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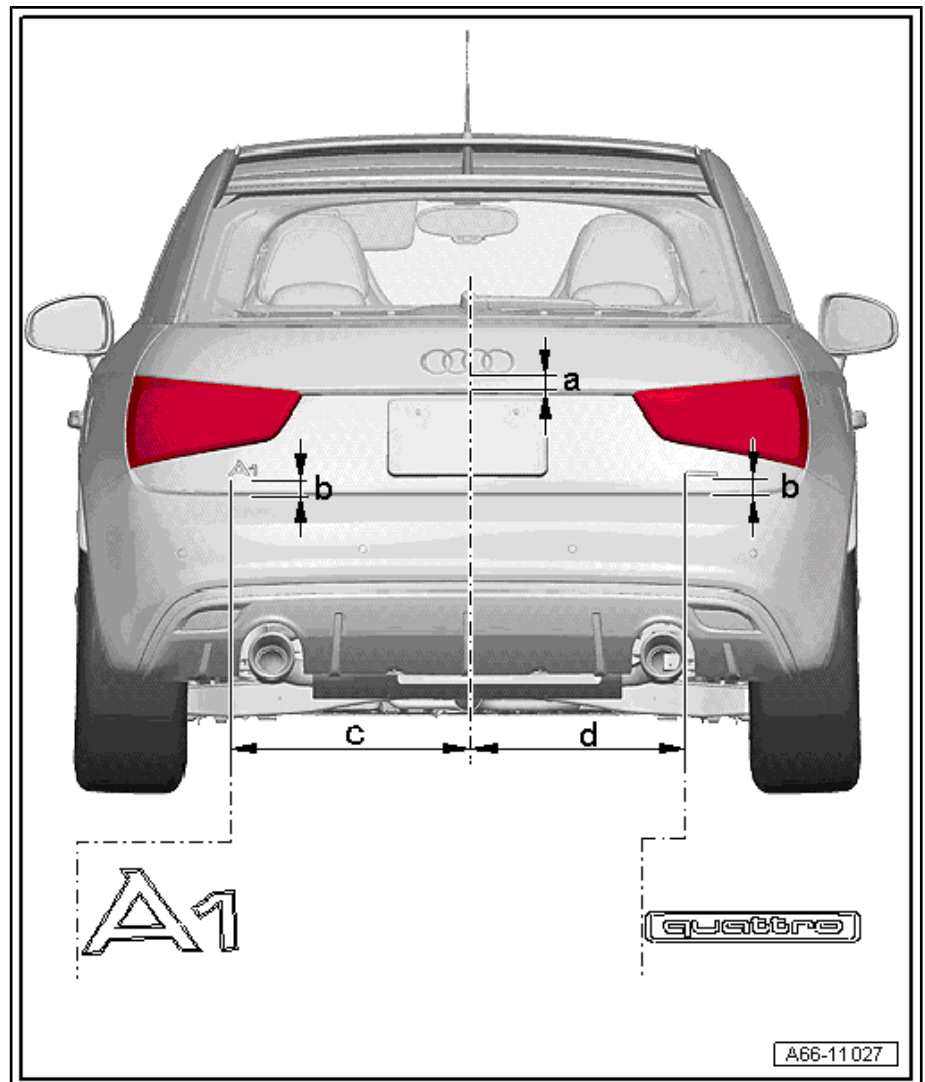
- Press model emblem firmly onto body, observing specified dimensions.

- ◆ Dimension -a- = 46 mm
- ◆ Dimension -b- = 33 mm
- ◆ Dimension -c- = 520 mm
- ◆ Dimension -d- = 544 mm

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10.3.3 Dimensions - model badges and brand emblems on rear lid, Audi A1 quattro



– Press model emblem firmly onto body, observing specified dimensions.

- ◆ Dimension -a- = 46 mm
- ◆ Dimension -b- = 33 mm
- ◆ Dimension -c- = 520 mm
- ◆ Dimension -d- = 473 mm

10.4 Dimensions - model badges and brand emblems on wings

⇒ ["10.4.1 General notes", page 279](#)

⇒ ["10.4.2 Dimensions - model badges and brand emblems on wings", page 281](#)

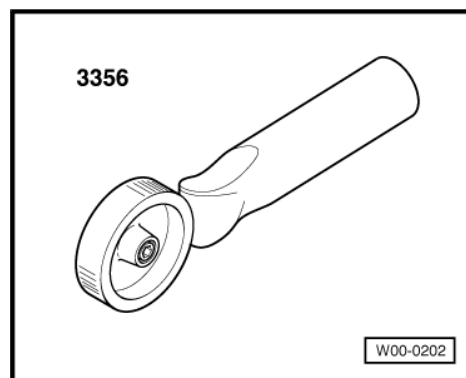
10.4.1 General notes

Special tools and workshop equipment required

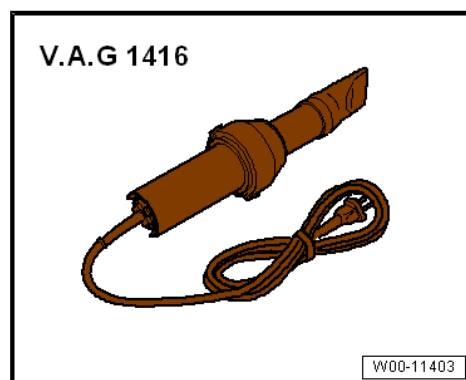
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◆ Roller - 3356-



◆ Hot air blower - V.A.G 1416-



◆ Cleaning solution - D 009 401 04-



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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10.4.2 Dimensions - model badges and brand emblems on wings



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Dimensions -a- and -b- are measured from the top of the wing panel.

Dimension -a- = 67 mm

Dimension -b- = 68 mm

Dimension -c- = 27 mm

