

## Workshop Manual Audi TT 2007 ➤

General body repairs, exterior

Edition 09.2009



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## List of Workshop Manual Repair Groups

### Repair Group

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50 - Body - front

55 - Bonnet, rear lid

57 - Front doors, door components, central locking

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64 - Glazing

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

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## 00 – Technical data

### 1 Routing and attaching pipes and wiring

Make sketches or take photographs when unfastening or removing and installing hydraulic and pneumatic pipes or wires. This ensures re-installation at the original location.



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## 2 Contact corrosion

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

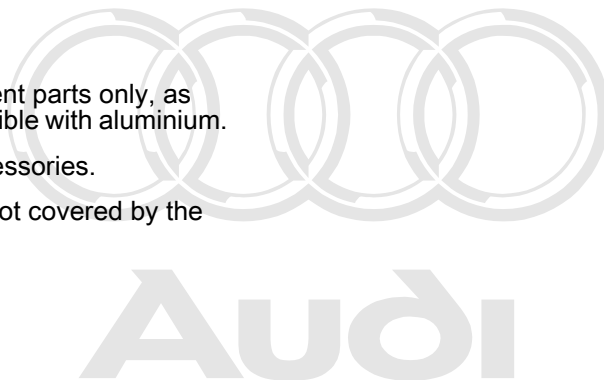
For this reason, only fasteners with a special surface coating are fitted.

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

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

### **Important:**

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



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## 50 – Body - front

### 1 Body - front

#### 1.1 Removing and installing lock carrier with attachments - exploded view

##### 1 - Lock washer

- ☐ Used to secure impact bar in position, does not have to be detached for removing lock carrier

##### 2 - Bolt

- ☐ 30 Nm

##### 3 - Impact bar

- ☐ Does not need to be detached from bumper brackets when removing the lock carrier.

##### 4 - Bolt

- ☐ 6 Nm

##### 5 - Lock carrier



##### Note

- ☐ Removing:
  - Remove bumper (front):  
Audi TT ⇒ [page 148](#),  
Audi TT RS  
⇒ [page 156](#).
  - Remove headlight ⇒  
Rep. Gr. 94.
  - **Detach cable for bonnet lock at coupling:** Audi TT  
⇒ [page 18](#), Audi TT  
RS ⇒ [page 41](#).
  - Unscrew bolts -2- at longitudinal member.



##### Note

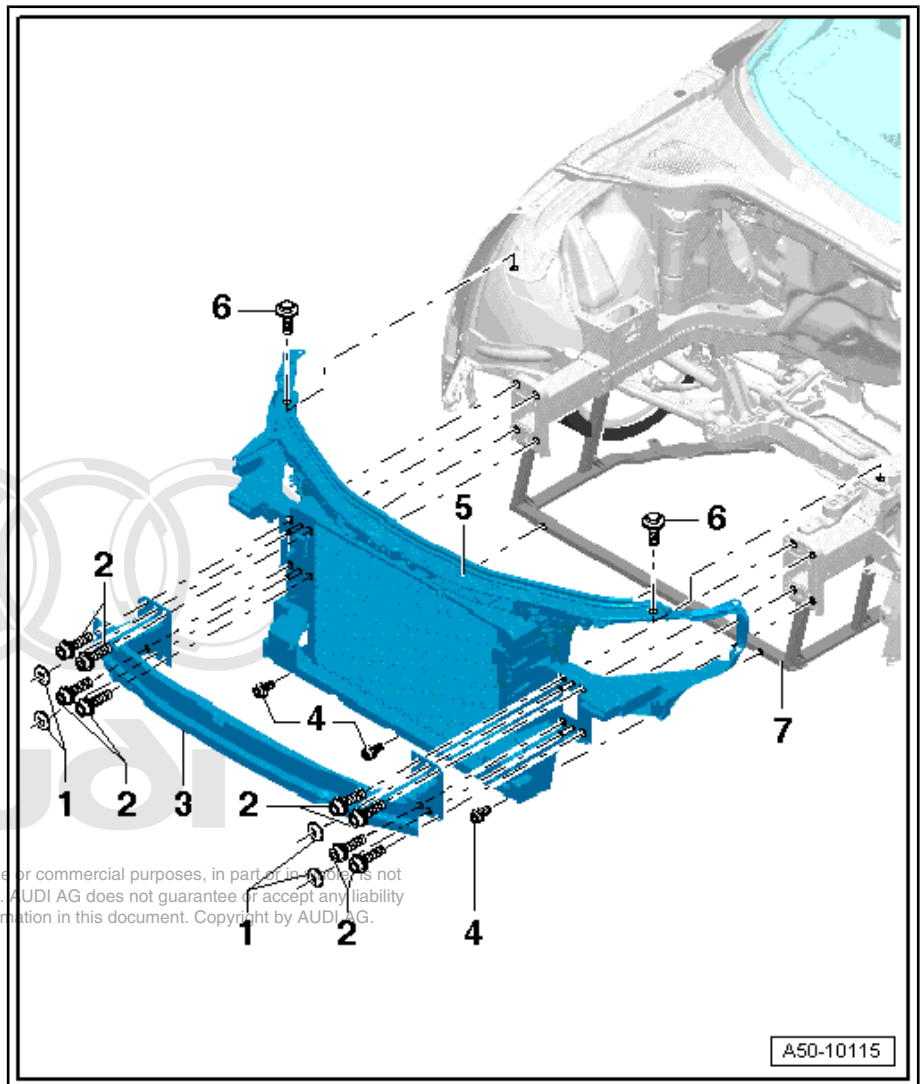
- Unscrew bolts -6- at wing and unscrew bolts -4-.
- Detach lock carrier to front.
- ☐ Install in reverse sequence.

##### 6 - Bolt

- ☐ 23 Nm

##### 7 - Frame

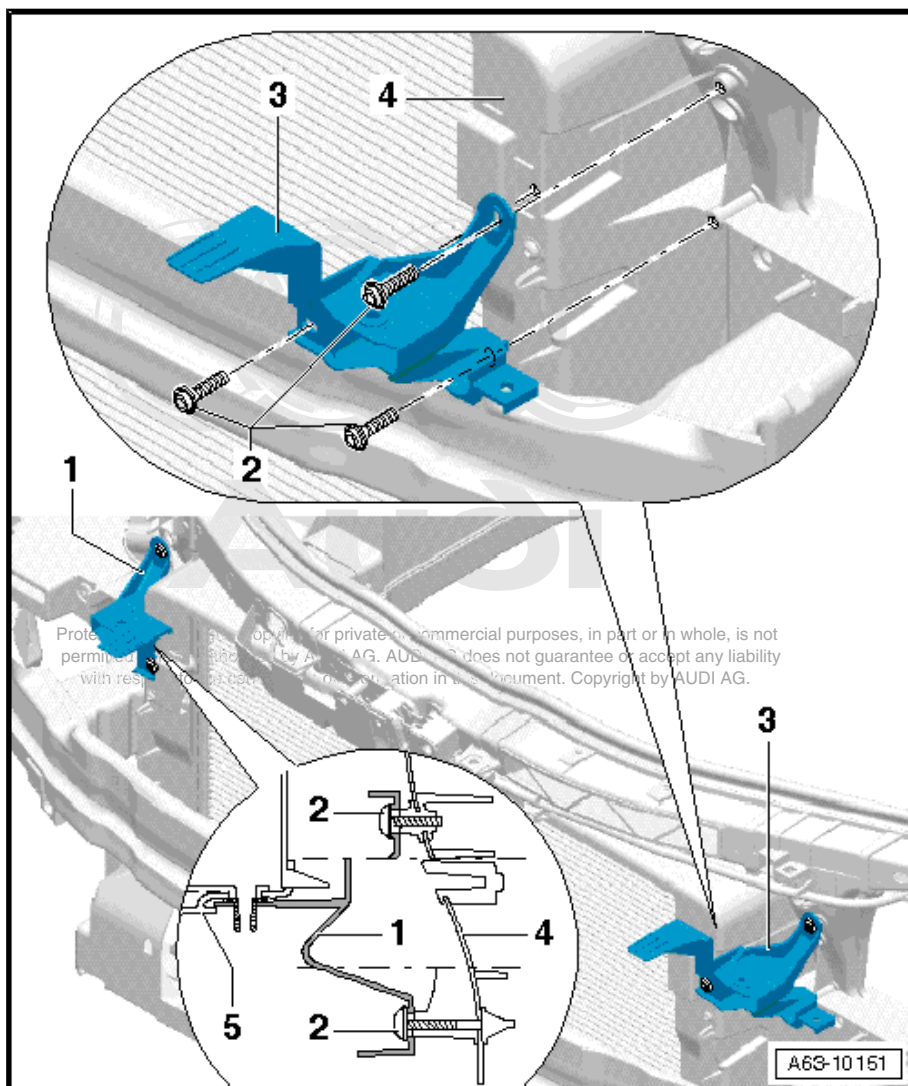
- ☐ Removing ⇒ [page 4](#)



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## Removing and installing bumper bracket

- 1 - Bumper bracket (right-side)
- 2 - Bolt
  - 5 Nm
- 3 - Bumper bracket (left-side)
- 4 - Bumper



## Frame for noise insulation

## 1 - Frame

- ☐ Noise insulation removed
- ☐ Unscrew bolts -2- and -3- and take out frame.

## 2 - Bolt

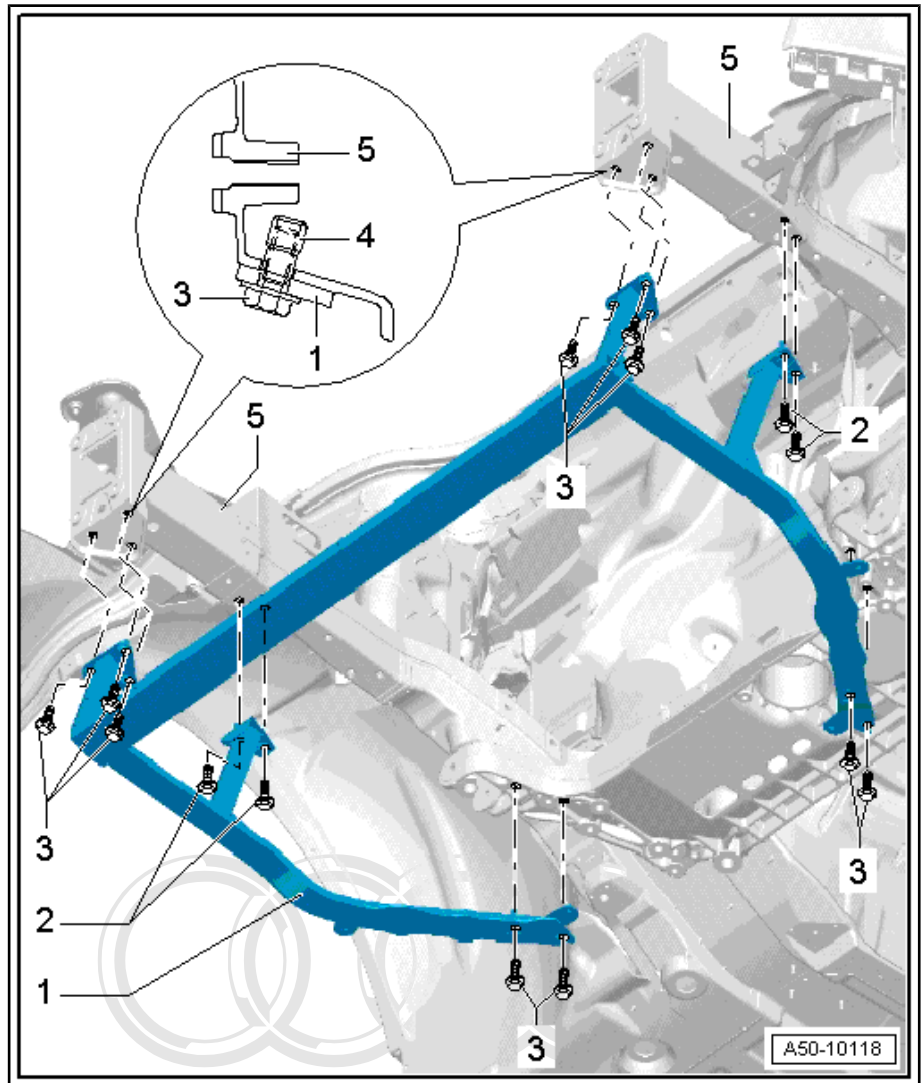
- ☐ 23 Nm

## 3 - Bolt

- ☐ 23 Nm

## 4 - Pop rivet nut

## 5 - Longitudinal member



Audi

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## 1.2 Strut for engine mounting - exploded view

Only on Roadster; country-specific version

### 1 - Engine mounting

Removing ⇒ Rep. Gr. 10

### 2 - Strut for engine mounting

- ❑ Remove nut -5- and bolts -3-

### 3 - Bolt

- ❑ 23 Nm

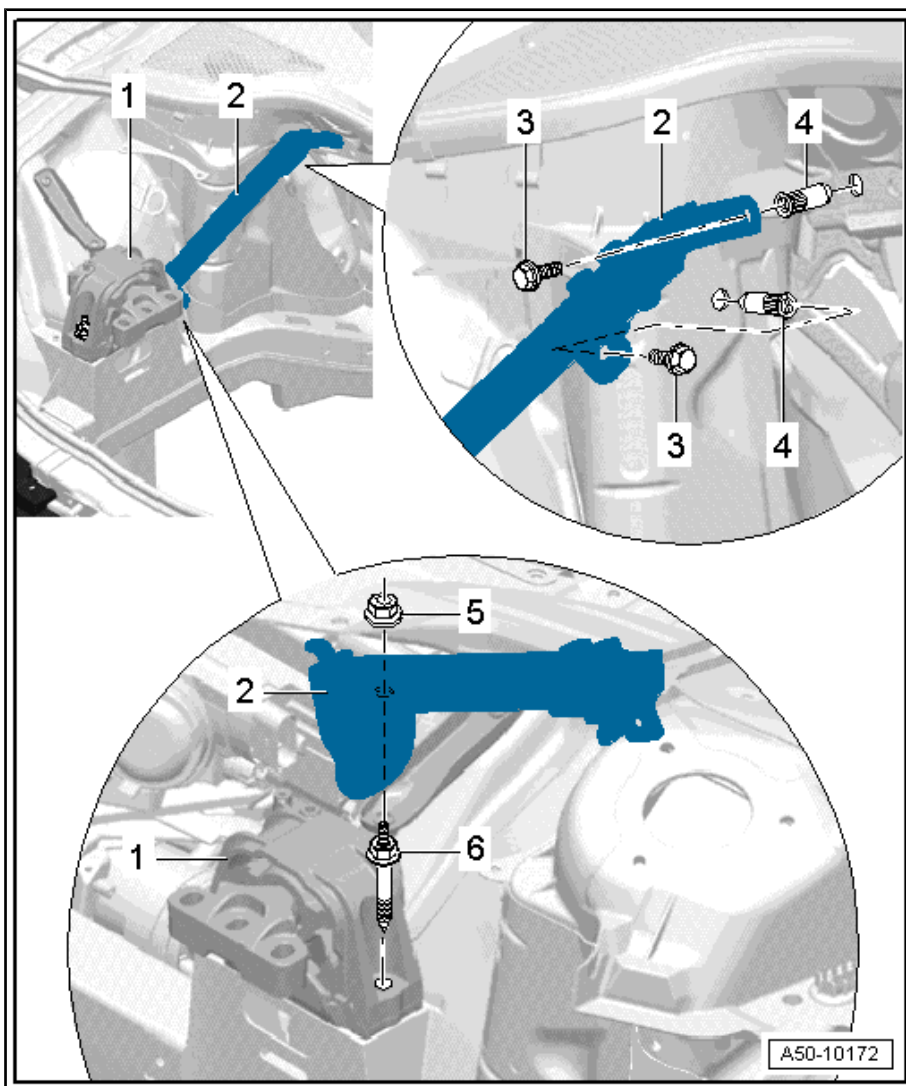
### 4 - Pop rivet nut

### 5 - Nut

- ❑ 10 Nm

### 6 - Special bolt

- ❑ Do not unscrew bolt when removing strut
- ❑ Tightening torque ⇒ Rep. Gr. 10



Reinforcement for strut



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### 1 - Strut for engine mounting

- ☐ Remove bolts -2- if strut has to be detached from bracket



#### WARNING

*When installing, reinforcement -3- must be pushed into strut -1-*

### 2 - Bolt

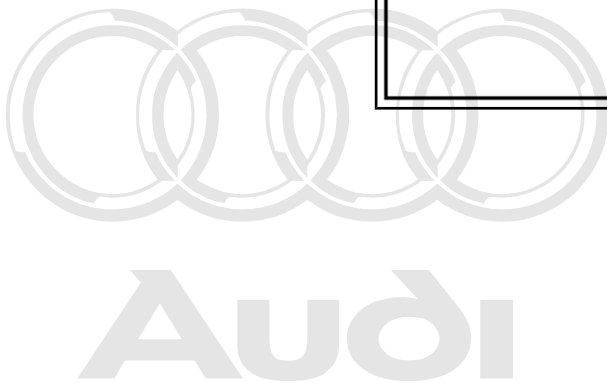
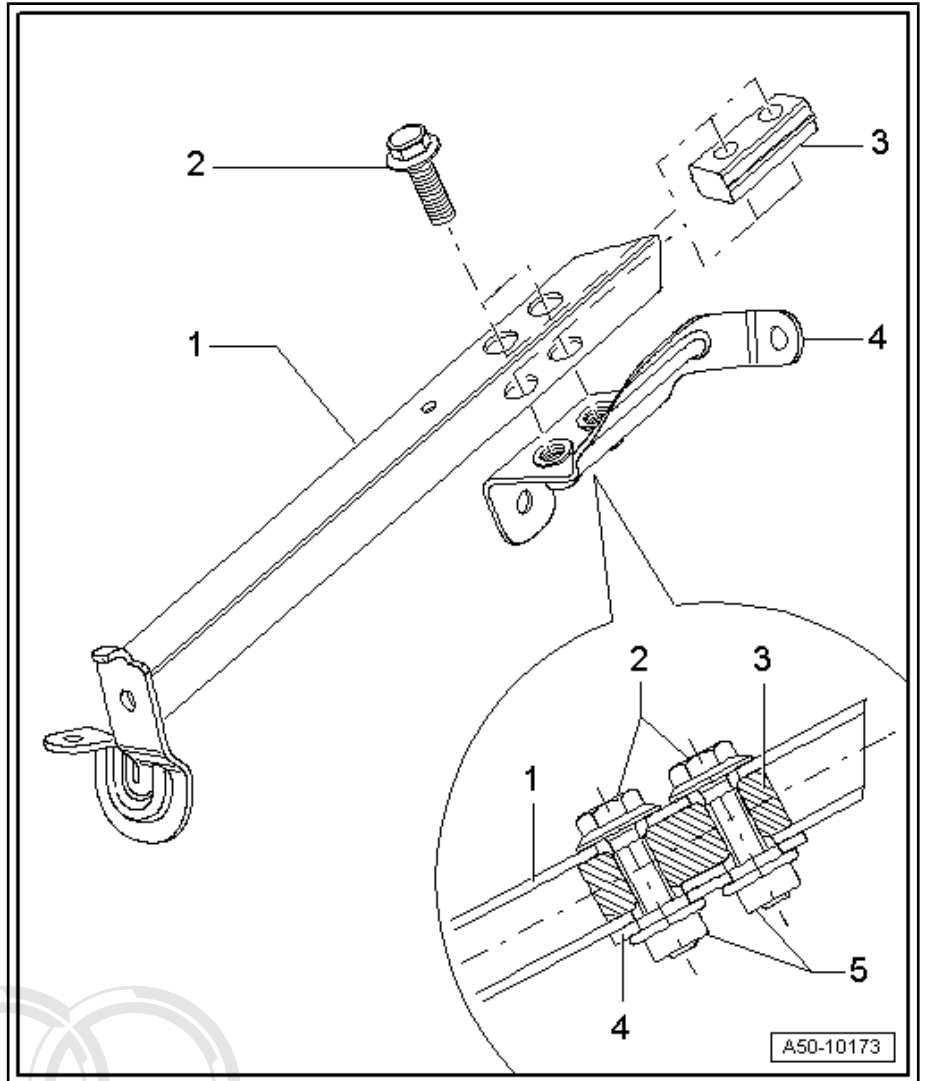
- ☐ 23 Nm
- ☐

When tightening to specified torque, counterhold at nut -5- with open-end spanner

### 3 - Reinforcement for strut

### 4 - Bracket

### 5 - Nut



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## 1.3 Removing and installing plenum chamber cover

### 1 - Seal for bonnet

- ☐ When fitted correctly, seal must be positioned over plenum chamber cover as shown in detail view

### 2 - Plenum chamber cover

- ☐ Wiper arms removed



#### Note

- ☐ Bonnet seal detached
- ☐ Pull trim panel out of retaining strip, starting at side of windscreen and lifting it upwards vertically.
- ☐ Vehicles with bolts  
⇒ [page 9](#)



#### Caution

**Danger of smashing glass during installation**

*When installing, trim panel must not be knocked on with a hammer, etc.*

*Starting at the side, carefully press trim into retaining strip.*

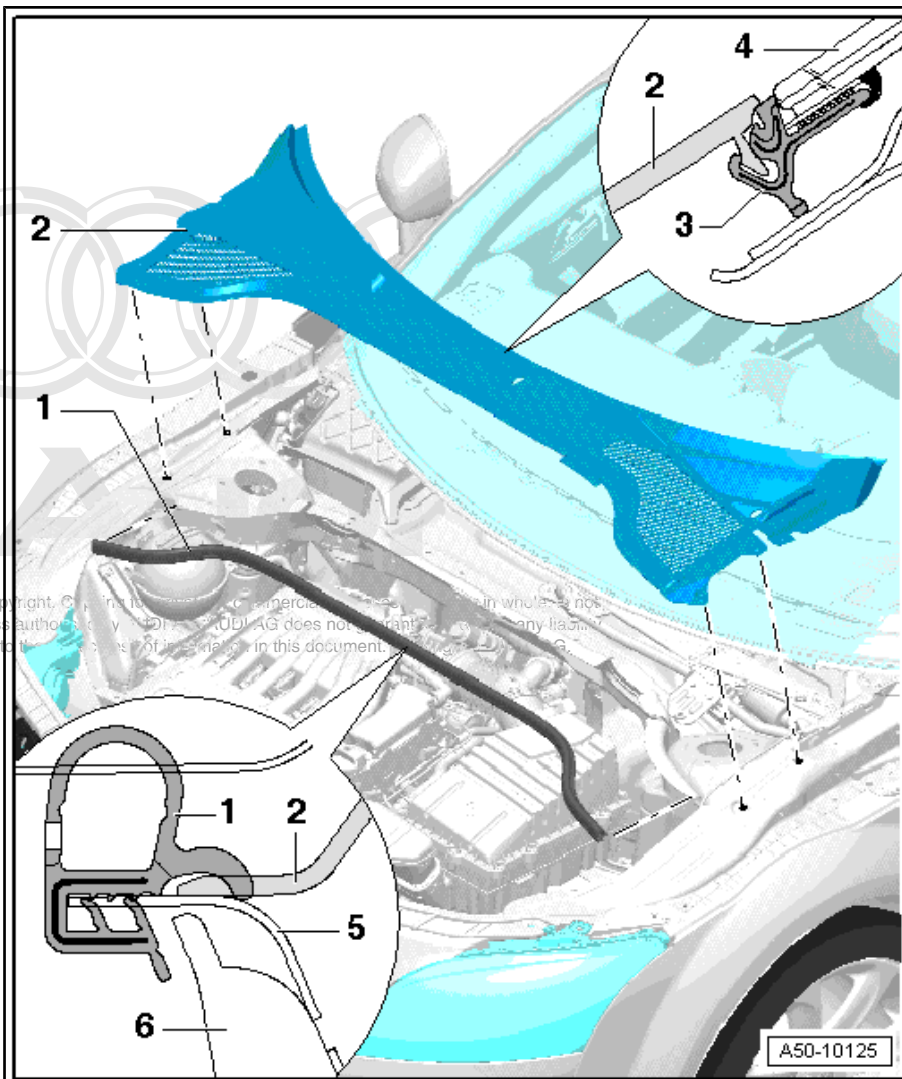
### 3 - Windscreen surround

- ☐ To facilitate removal / installation, spray soap solution onto the windscreen surround.
- ☐ Not available as a separate replacement part

### 4 - Windscreen

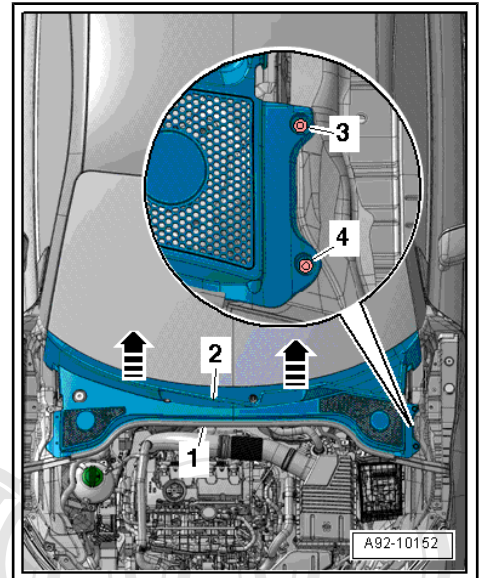
### 5 - Plenum chamber

### 6 - Bulkhead trim



### Plenum chamber cover with bolts

- Remove bolts -3- and -4-.
- Pull off rubber seal -1-.
- Starting at edge of windscreen, carefully pull plenum chamber cover -2- vertically upwards out of retainer at windscreen -arrows-.



## 1.4 Removing and installing front wing - exploded view

### 1 - Bolt

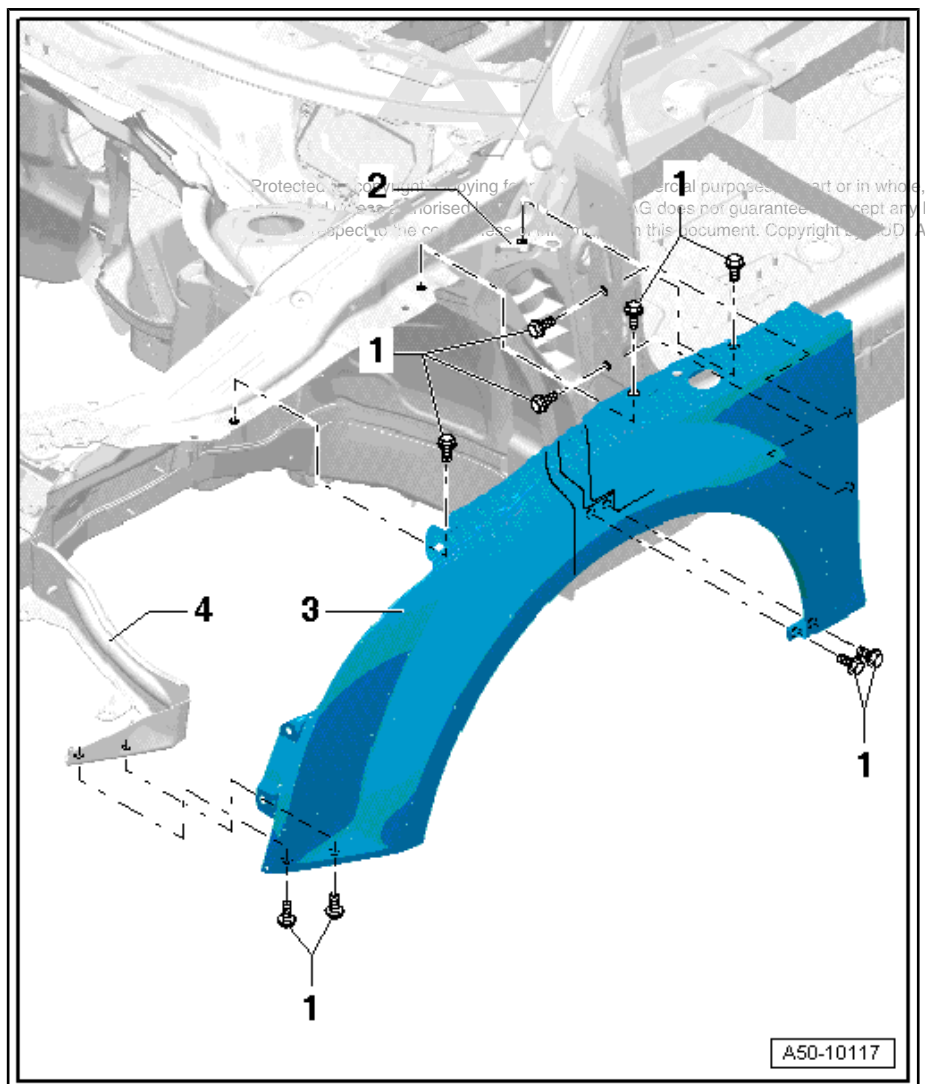
- ☐ 11 Nm

### 2 - Bracket

### 3 - Wing panel

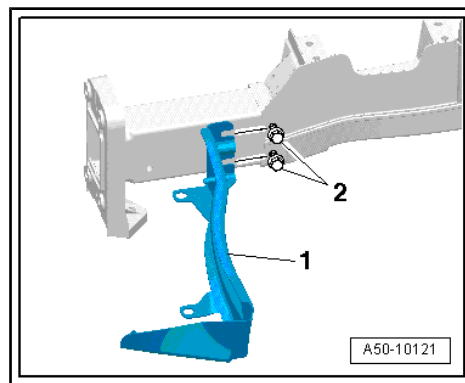
- ☐ Removing:
- ☐ Detach side member trim in area of wing panel.
- ☐ Headlight removed ⇒ Rep. Gr. 94
- Remove bumper (front):  
Audi TT ⇒ [page 148](#) ,  
Audi TT RS  
⇒ [page 156](#) .
- Remove wheel housing liner ⇒ [page 239](#) .
- Remove end plate  
⇒ [page 10](#) .
- Remove bolts and detach wing.
- ☐ Install in reverse sequence.

### 4 - Brace



## Brace for wing panel

- Wing removed
- To remove, only loosen bolts -2- and slide brace forwards out of elongated holes.
- ◆ Bolts -2- 23 Nm



## Removing and installing end plate

### 1 - End plate

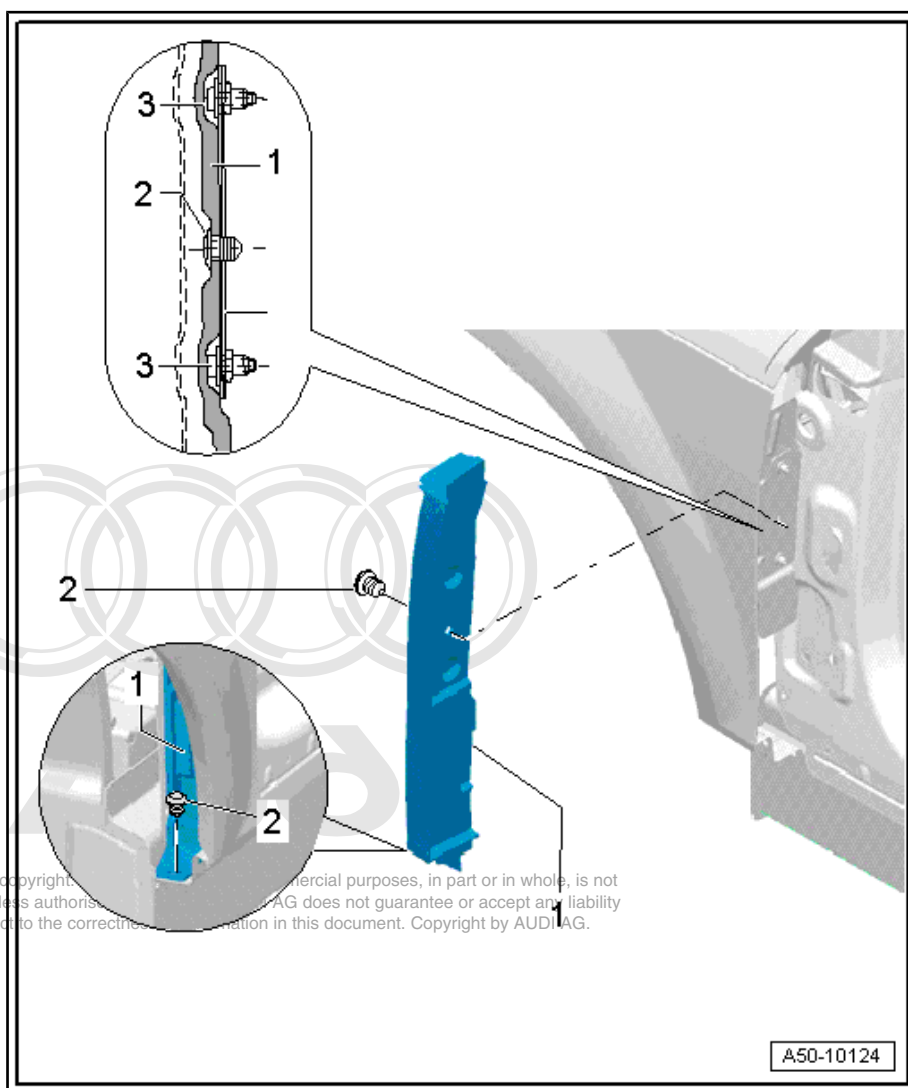
- Remove front wheel.
- Remove wheel housing liner ⇒ [page 239](#).
- ☐ Detach reservoir.
- Pull out plug -3- and slide out end plate -1- downwards.

☐

### 2 - Plug

### 3 - Bolts

- ☐ 11 Nm



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## 55 – Bonnet, rear lid

### 1 Bonnet - TT

#### 1.1 Removing and installing bonnet - exploded view

##### 1 - Bonnet

- When removing or installing the bonnet, a 2nd mechanic is required to support and hold the bonnet.
- ☐ Removing:
  - Detach gas strut  
⇒ [Item 5 \(page 11\)](#)  
from bonnet  
⇒ [page 16](#).
  - Unscrew nuts -4- at bonnet hinge at top.
  - Detach bonnet.
- ☐ Install in reverse sequence.
- ☐ Adjusting:
  - Align bonnet between wings.
  - Adjust height of bonnet via bottom section of bonnet lock.
  - Adjust position of bonnet to wings via bump stops ⇒ [page 15](#).



Note

##### 2 - Bolts

- ☐ 32 Nm

##### 3 - Bonnet hinge

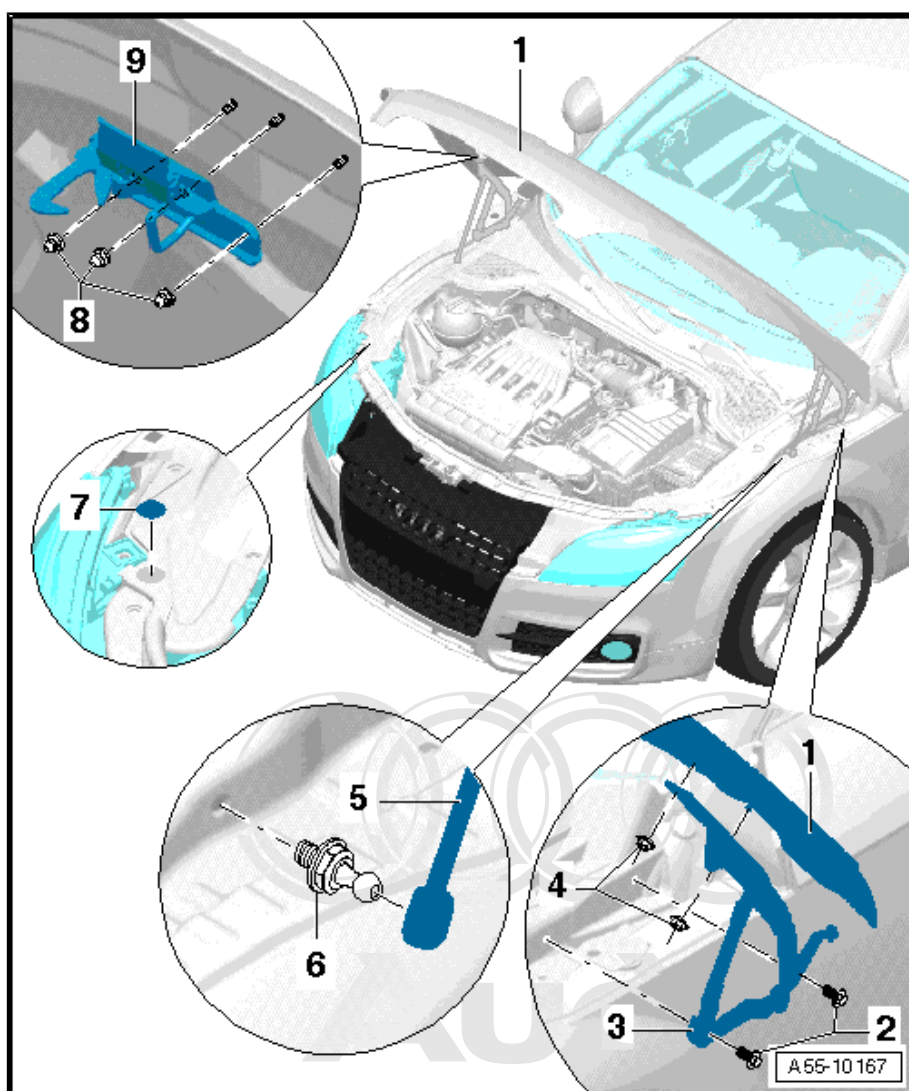
- For removal and installation, remove bonnet or support it securely.
- ☐ Removing:
  - Remove gas strut ⇒ [page 16](#).
  - Remove bolts -2- and nuts -4-.
- ☐ Install in reverse sequence.

##### 4 - Nuts

- ☐ 25 Nm

##### 5 - Gas strut

- ☐ Removing and installing ⇒ [page 16](#).
- ☐ The cylinder end of the gas strut must be installed on the bonnet side.



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**6 - Ball stud**

- 21 Nm

**7 - Protective film**

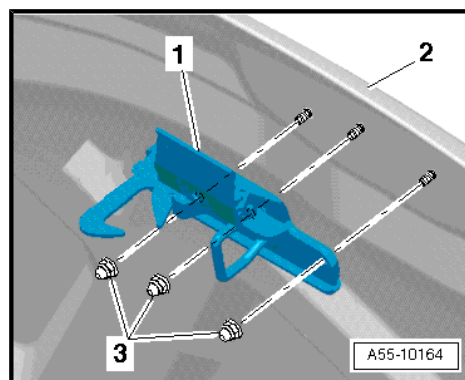
- Self-adhesive
- Peel off protective film before mounting.

**8 - Nuts**

- 9 Nm

**9 - Arrester****Removing and installing arrester**

- Unscrew nuts and detach arrester.

**Removing and installing bonnet lock**

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**1 - Bolt**

- ☐ 11 Nm

**2 - Bolt**

- ☐ 11 Nm

**3 - Bonnet lock**

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



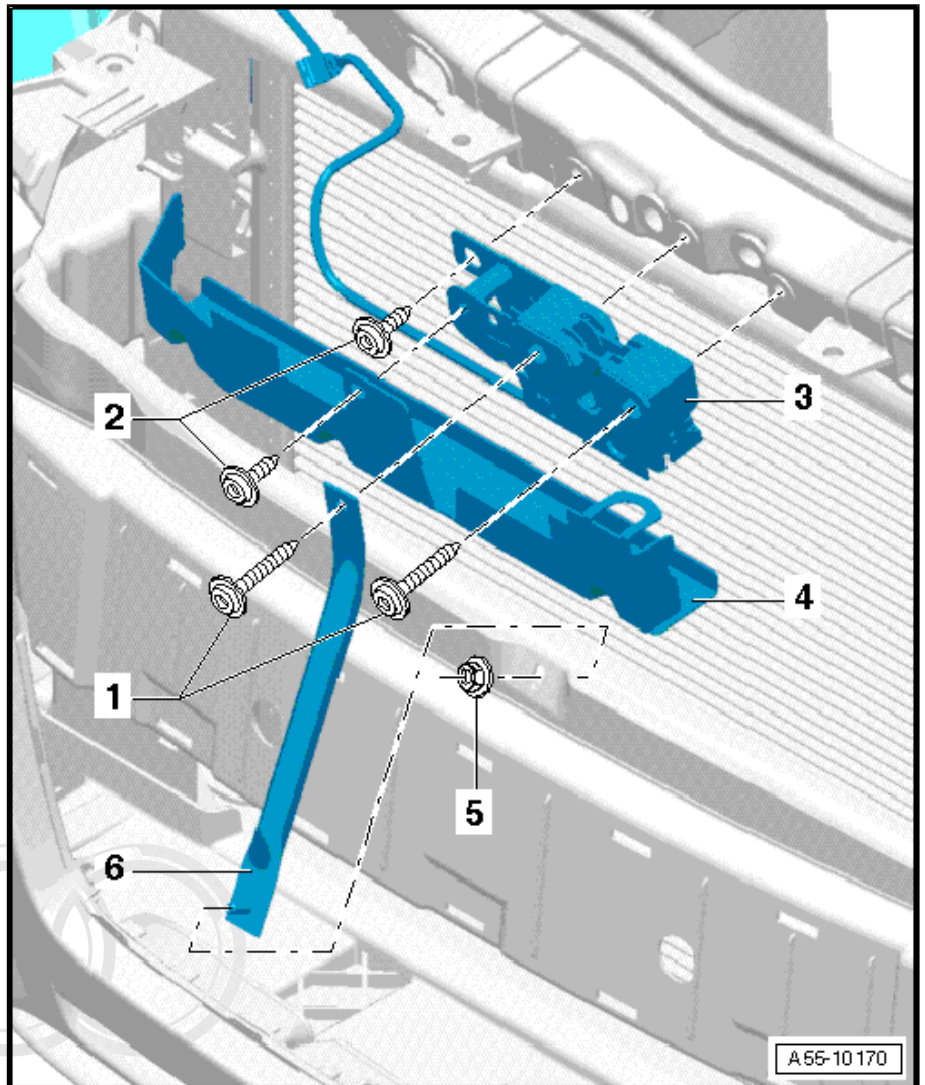
**Note**

**4 - Cover for bonnet lock**

**5 - Nut**

- ☐ 11 Nm

**6 - Brace**



## Removing and installing bonnet hinge

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**1 - Bonnet**

**2 - Gas strut**

- ☐ Engage cylinder end of gas strut on bonnet end
- ☐ Removing ⇒ [page 16](#)

**3 - Nut**

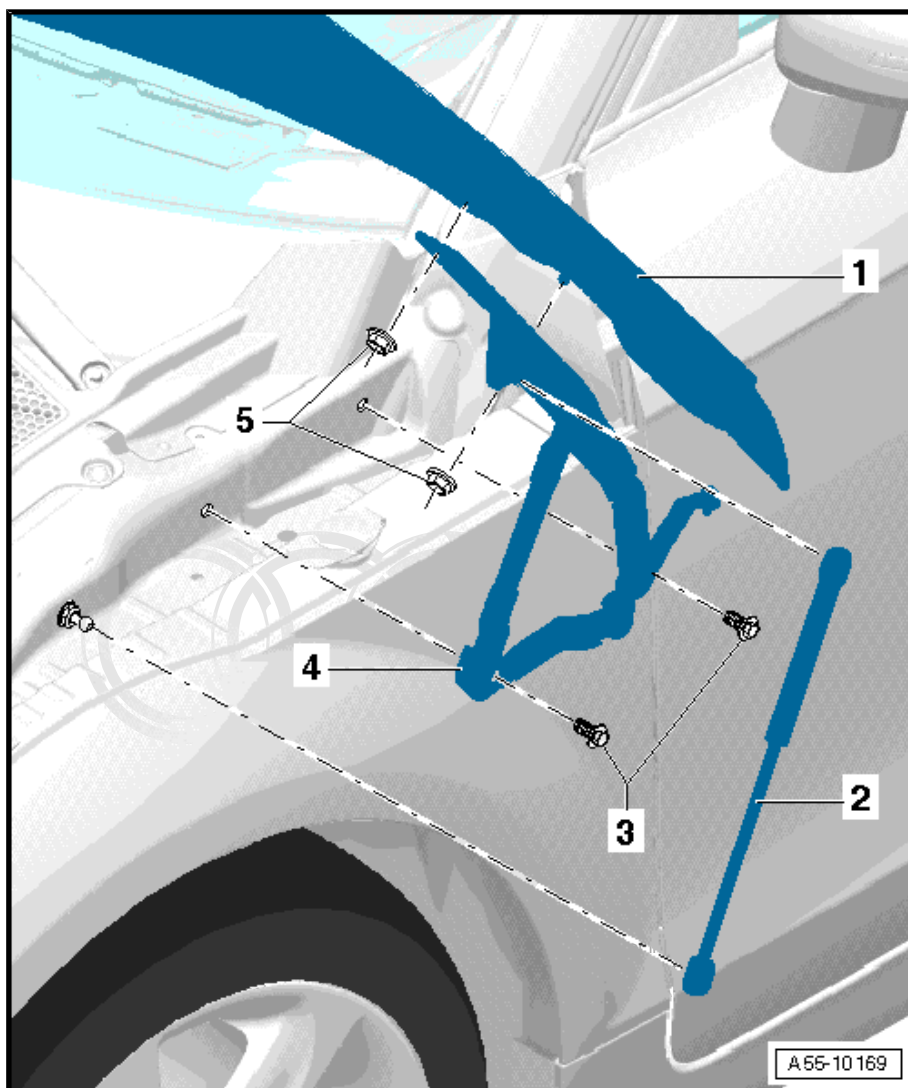
- ☐ 25 Nm

**4 - Hinge for bonnet**

- Before removing hinge, support bonnet or secure it in position.
- ☐ Gas strut removed
- ☐ Remove bolts -3- and nuts -5-.
- ☐ Detach bonnet when removing the two hinges.

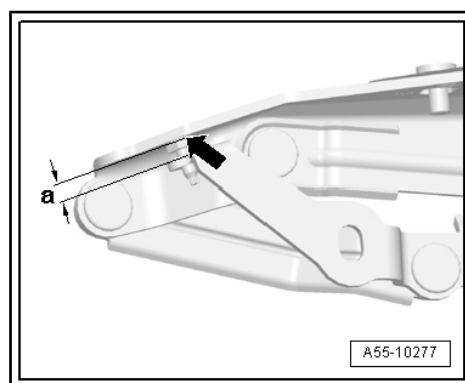
**5 - Nut**

- ☐ 25 Nm



**Adjusting bonnet hinge**

- ◆ When renewing hinge, check dimension -a- = 12.5 mm; adjust if necessary.

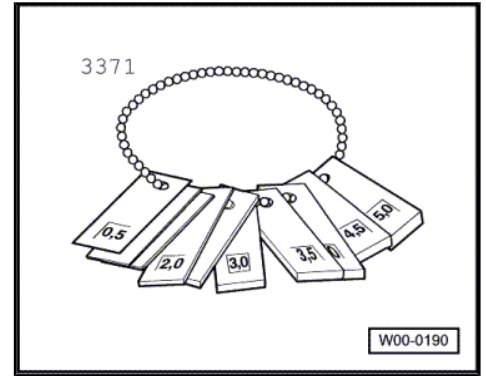


## 1.2 Adjusting bonnet

Special tools and workshop equipment required

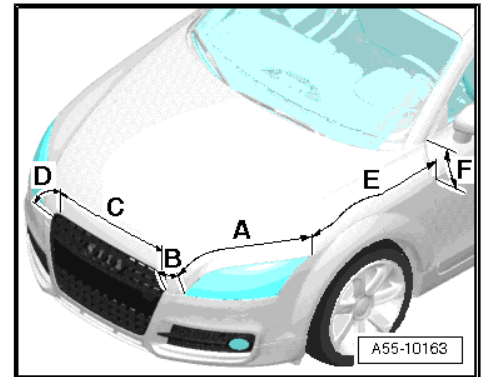


◆ Setting gauge -3371-



**Gap widths at bonnet**

- In area -A- = 3.5 mm  $\pm$  0.5 mm
- In area -B- = 4.5 mm  $\pm$  0.5 mm
- In area -C- = 4.5 mm  $\pm$  0.5 mm
- In area -D- = 4.0 mm ... 2.5 mm (at corner radius)
- In area -E- = 3.5 mm  $\pm$  0.5 mm
- In area -F- = 3.5 mm  $\pm$  0.5 mm



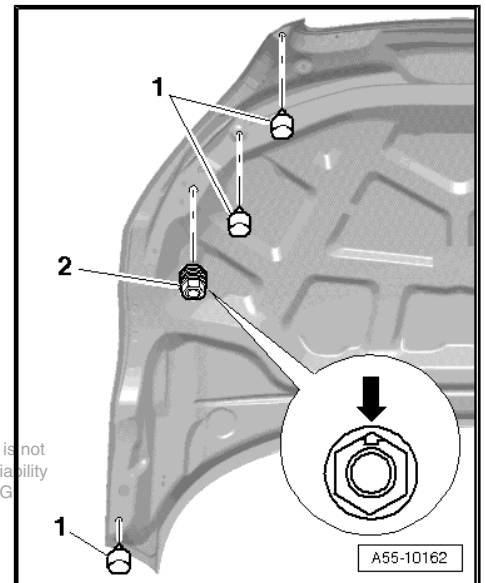
**Adjusting height of bump stops**

- With bonnet closed, adjusting buffers -1- must rest gently on lock carrier.
- Rubber buffers -2- are used as impact protection and should not make contact when bonnet is closed.



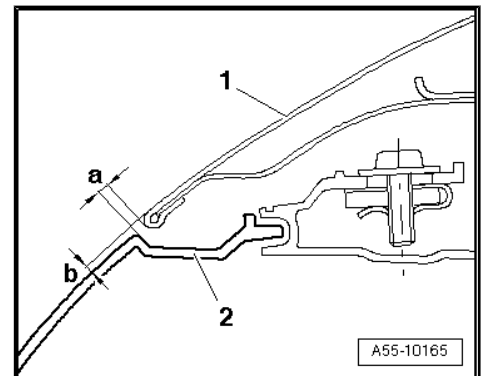
**Note**

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



**Projection at bonnet**

- When correctly set, the bonnet -1- must project in the area of the headlights -2-.
- Dimension -a- = 3.5 mm  $\pm$  0.5 mm
- Projection dimension -b- = 3 mm  $\pm$  0.5 mm



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### 1.3 Removing and installing gas strut - exploded view

#### 1 - Gas strut

- To remove, lift locking spring -arrow- slightly and detach gas strut from ball stud.

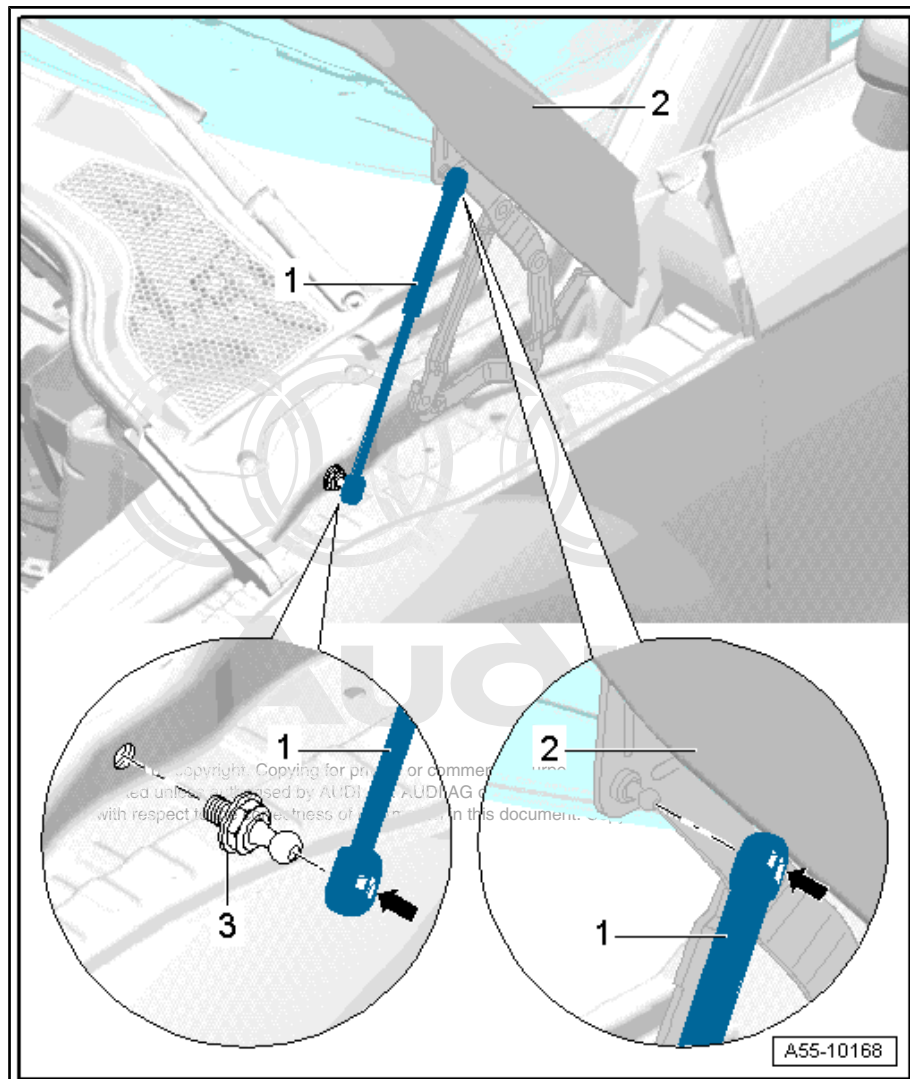


Note

#### 2 - Bonnet

#### 3 - Ball stud

- 21 Nm



#### Removing

- Support bonnet or secure it in position.
- Use small screwdriver to raise locking spring slightly and detach gas strut -1- from upper ball stud -2-.
- Repeat procedure at lower ball stud.

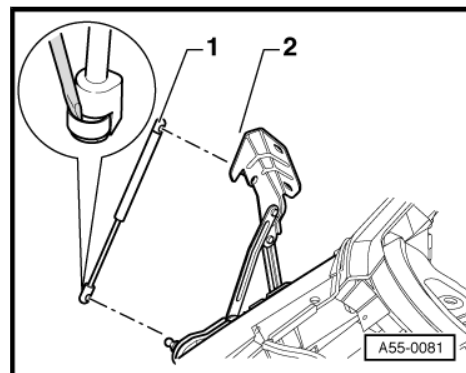
#### Installing



Note

*If the 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 bonnet side.*

- Press gas strut onto ball stud and engage.



## 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.*

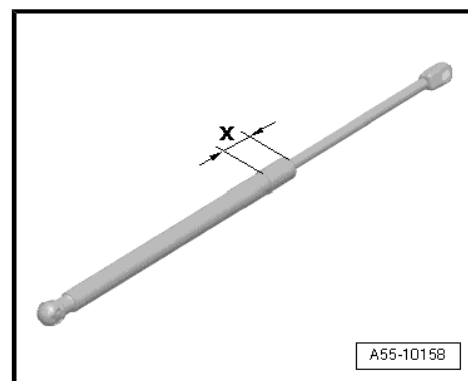
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### Note

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

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



## 1.4 Removing and installing seal for bonnet

### 1 - Lock carrier seal

- ☐ Slide centrally from rear onto lock carrier.

### 2 - Profiled seal (right-side)

- ☐ Self-adhesive
- ☐ Pull off protective film and press onto wing mounting flange.

### 3 - Seal for plenum chamber

- ☐ Starting at the side, slide into profiled seal (with pre-tension).
- ☐ Gradually press on seal as far as opposite side.
- ☐ When fitting, tension seal at corners.



### Caution

*Squashing in corners is not permitted*

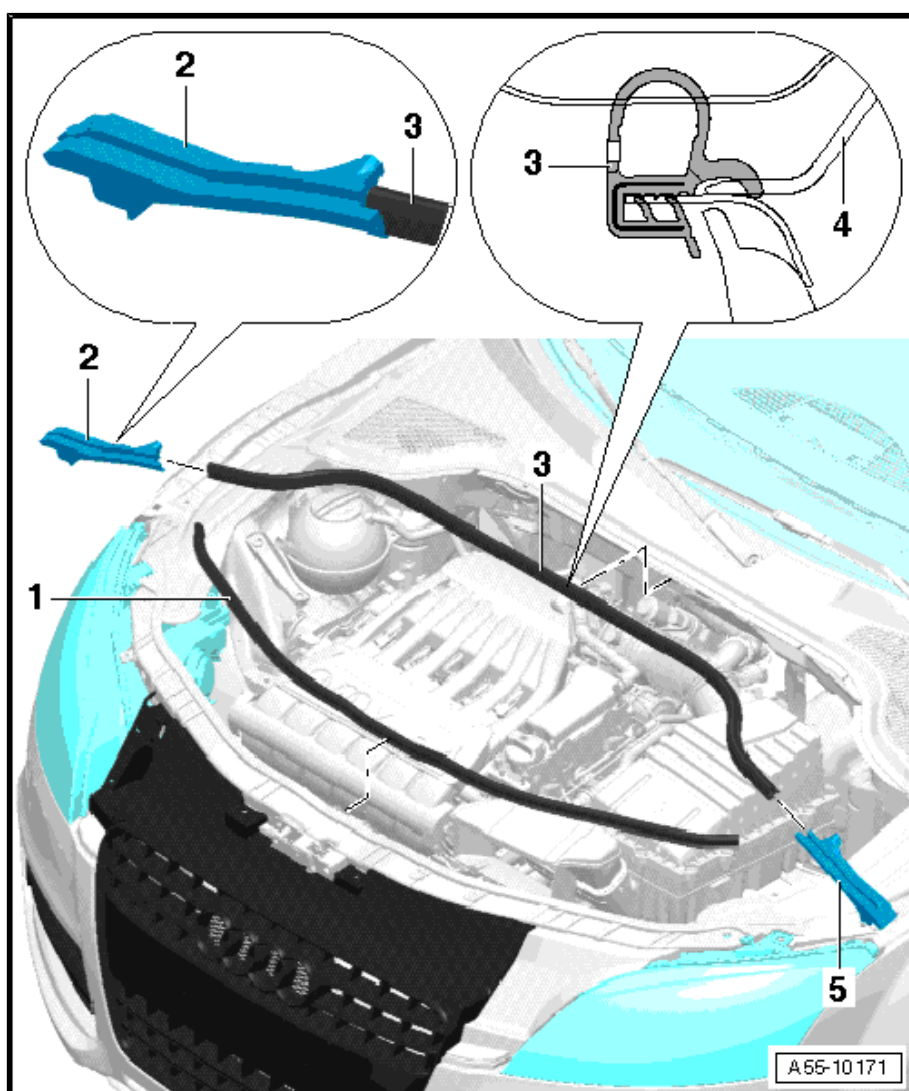
- ☐ Insert seal in profiled seal on opposite side in the same manner.

### 4 - Plenum chamber cover

- ☐ Must be inserted beneath lip of plenum chamber seal.

### 5 - Profiled seal (left-side)

- ☐ Self-adhesive
- ☐ Pull off protective film and press onto wing mounting flange.



## 1.5 Removing and installing bonnet lock cable - exploded view

### 1 - Bonnet lock

- ☐ Removing and installing
- ☐ Slide upwards or downwards to adjust bonnet.

### 2 - Cable for bonnet lock

- ☐ Removing:
  - ☐ Disconnect cable at coupling unit  
⇒ [page 19](#).
  - Disengage cable from bracket -7-.
  - Pull cable through towards engine compartment.
- ☐ Install in reverse sequence.

### 3 - Foam sheath

- ☐ Attached to coupling unit

### 4 - Coupling unit for cable

- ☐ Detach cable at this location before taking out lock carrier and when removing release lever.

### 5 - Grommet

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

### 6 - Cover for cable

- ☐ Attached to edge of panel

### 7 - Bracket for cable

- ☐ Disengaging cable ⇒ [page 22](#)

### 8 - Release lever for bonnet lock

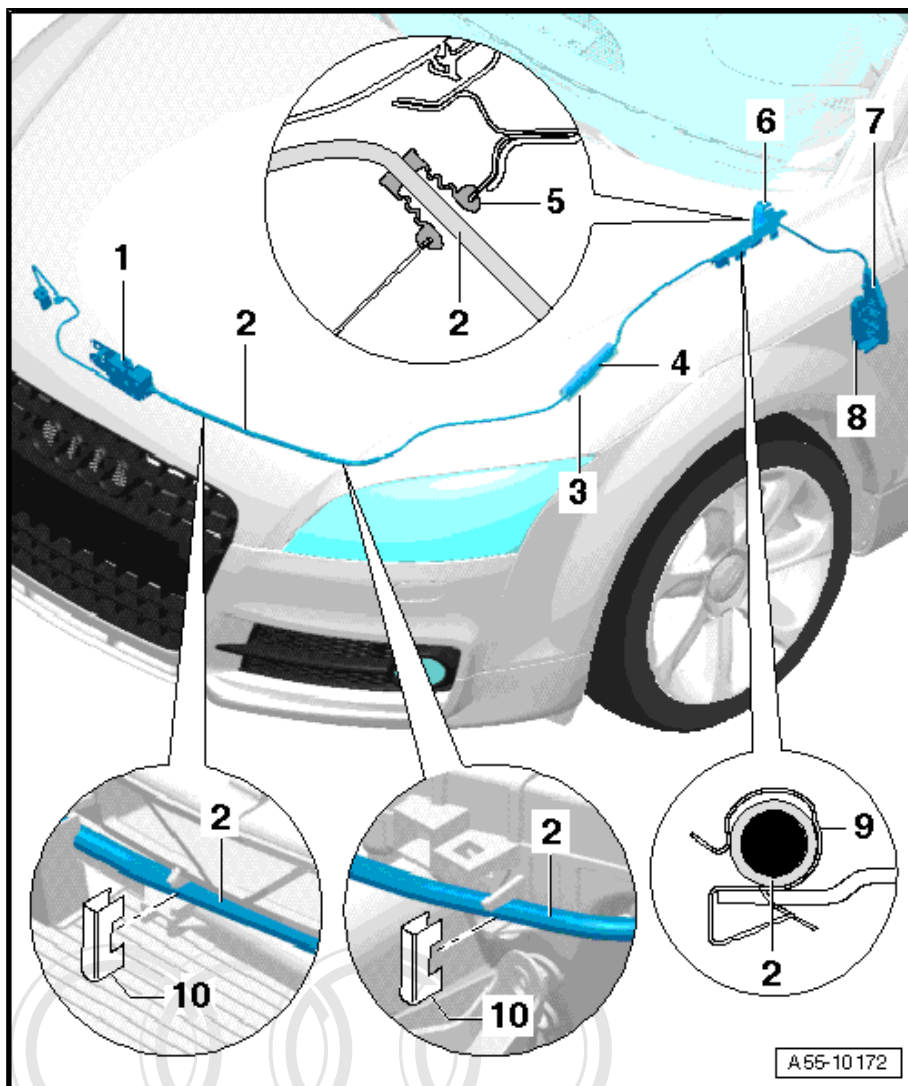
- ☐ Removing cover for release lever ⇒ [page 21](#)

### 9 - Retaining clip

- ☐ Attached on side to body flange

### 10 - Clip

- ☐ Attached from front to lock carrier



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### Removing cover for cable

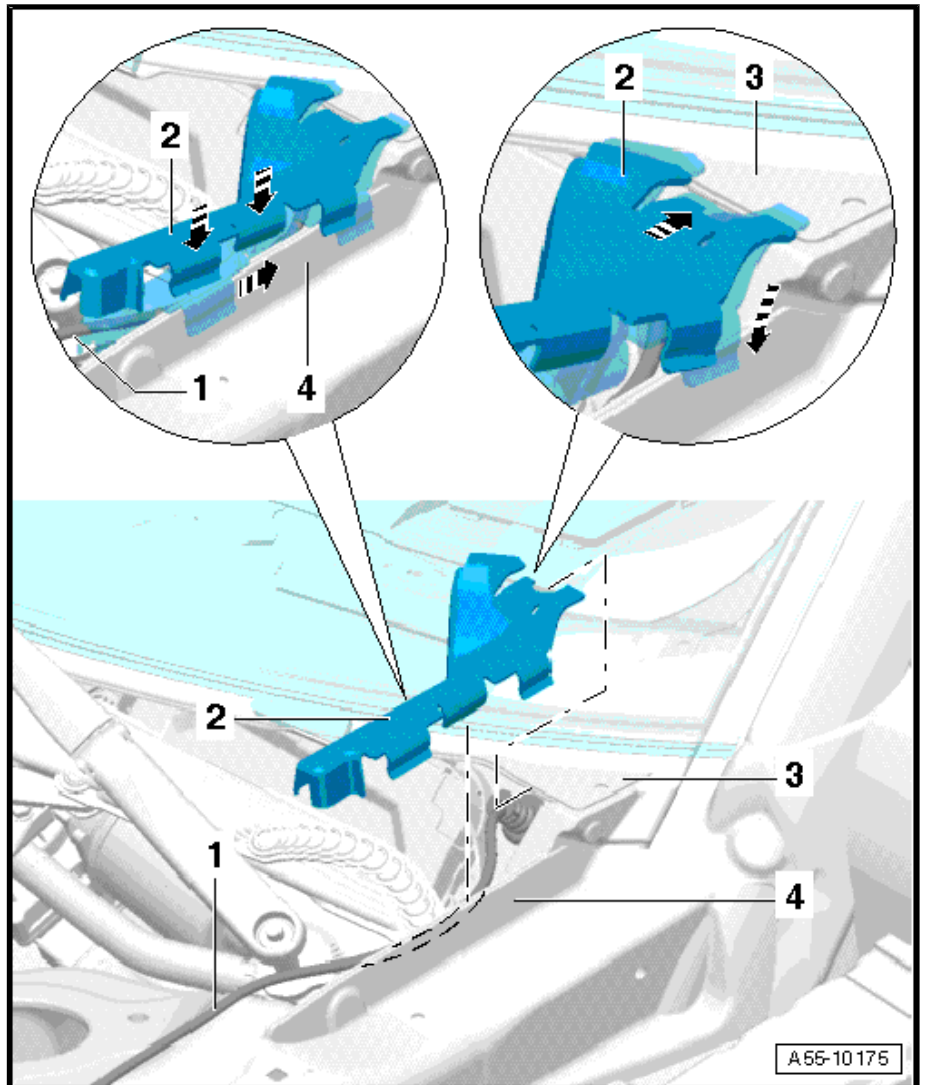
**1 - Cable**

**2 - Cover for cable**

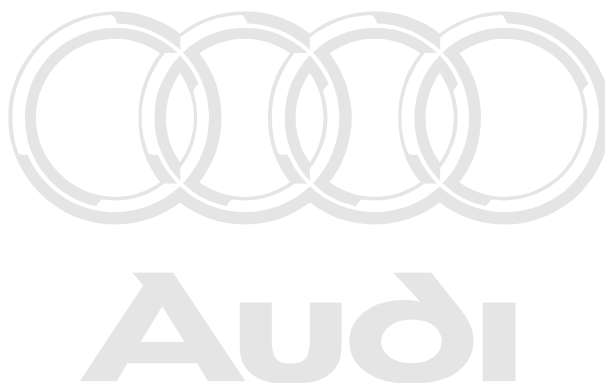
- ☐ To remove from body flange, pull towards front and then detach upwards from wing mounting flange
- ☐ Unclip cable from cover.

**3 - Body flange**

**4 - Wing mounting flange**



**Coupling unit for cable**



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# 1 - Cable (rear)

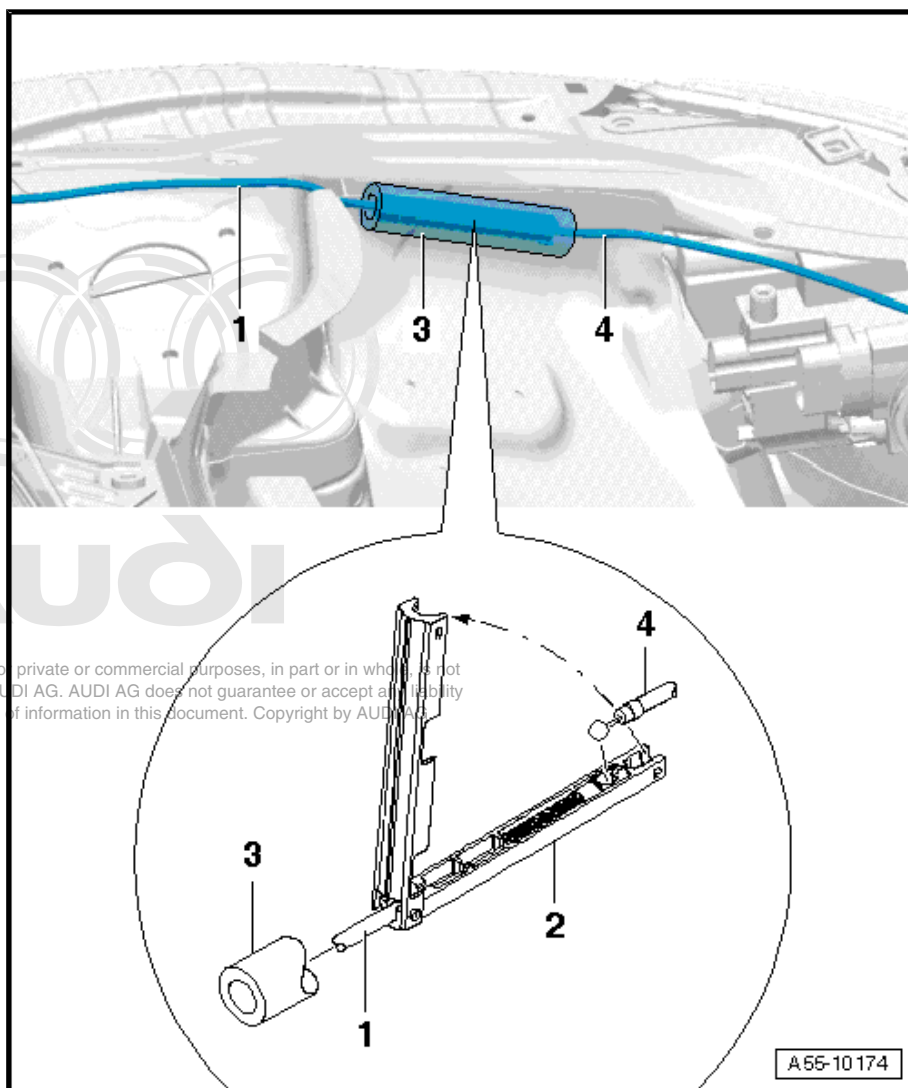
## 2 - Coupling unit for cable

- ❑ To release, detach foam sheath and open coupling unit.
- ❑ Lift front cable with nipple out of coupling unit.

## 3 - Foam sheath

- ❑ After fitting cable, slide sideways over coupling unit

## 4 - Cable (front)



## Engaging cable in bonnet lock

# 1 - Bonnet lock

## 2 - Nipple for cable

- ☐ Insert cable nipple in operating lever -5-.
- ☐ Insert cable in bottom section of bonnet lock (in direction of arrow) and slide in until it engages.

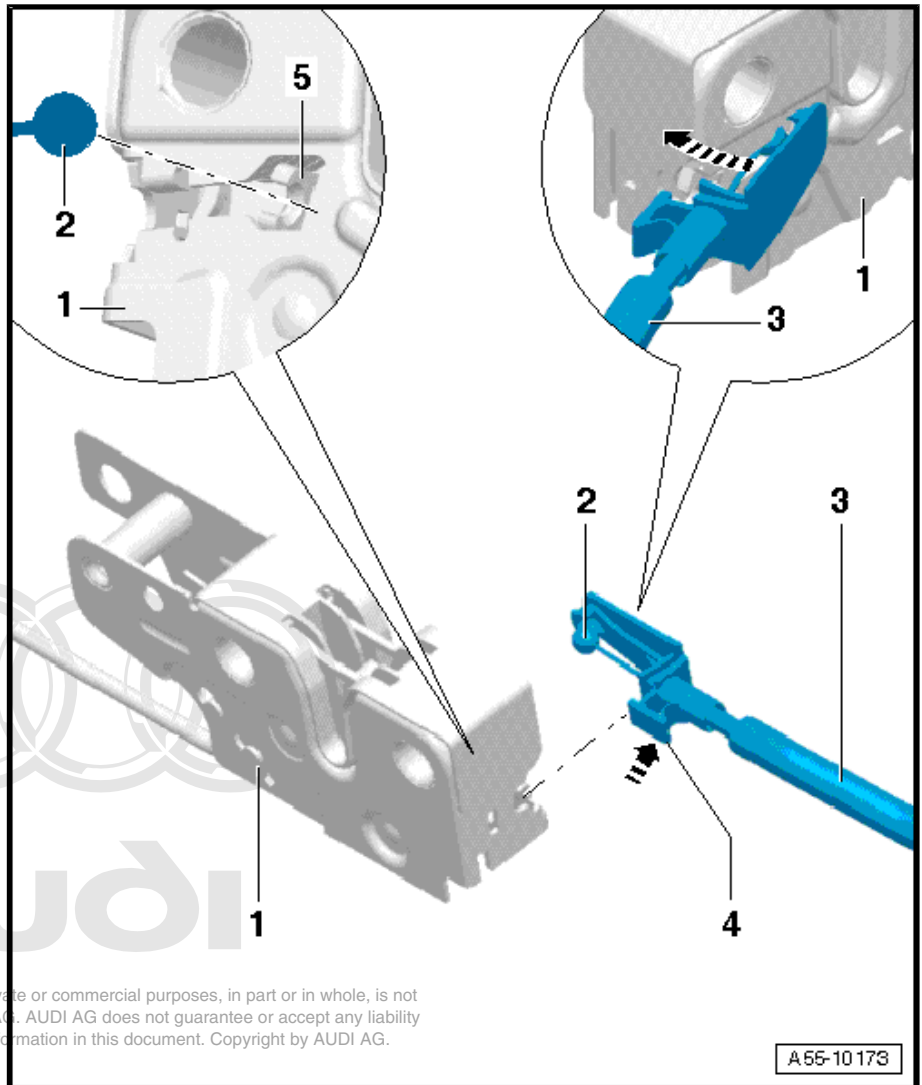
## 3 - Cable (front)

## 4 - Guide

- ☐ Engage cable guide in bottom section of bonnet lock.

## 5 - Operating lever

- ☐ Insert cable nipple at this location



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A55-10173

## Removing cover for operating lever

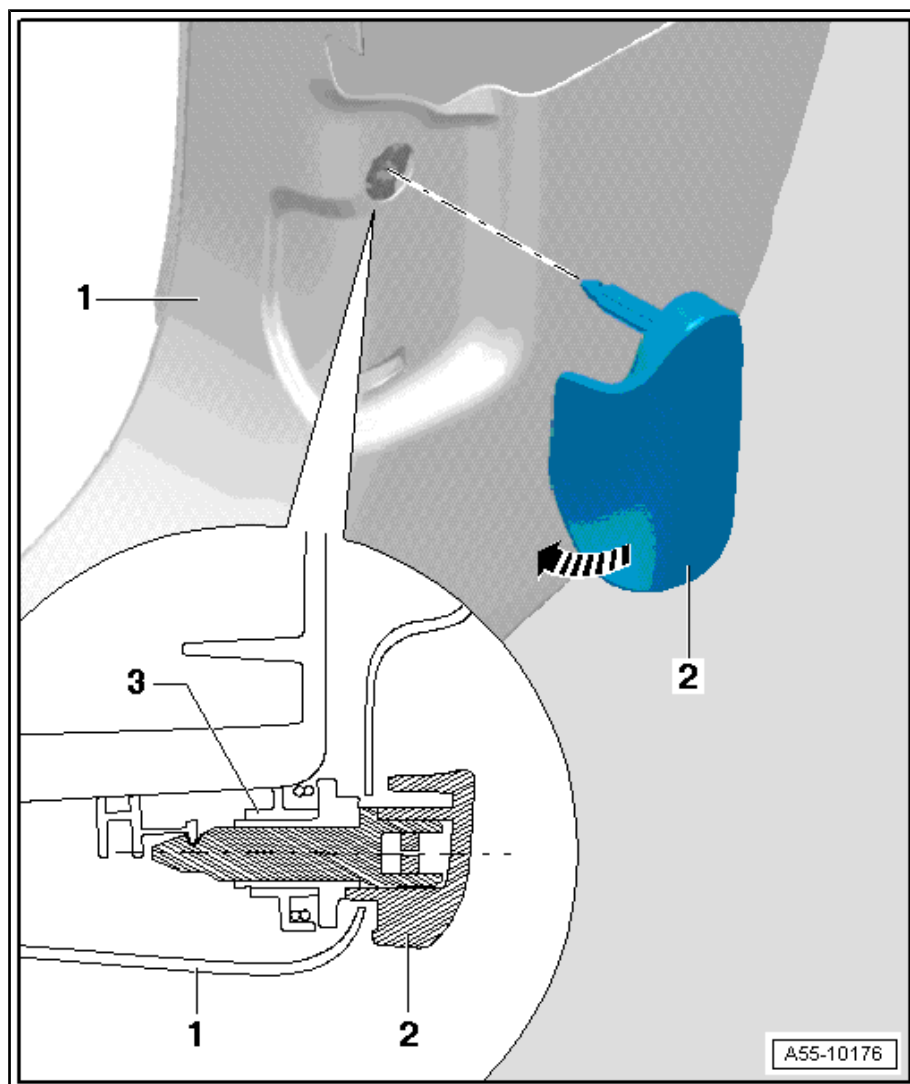


**1 - A-pillar trim (bottom)**

**2 - Cover for operating lever**

- ❑ Before removing, disengage cable in coupling in engine compartment  
⇒ [page 19](#).
- ❑ Raise operating lever by approx. 90° and pull out of operating lever towards centre of vehicle.

**3 - Operating lever**



**Removing operating lever**



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### 1 - Bolts

- ☐ 12 Nm

### 2 - Mounting bracket for operating lever

- ☐ Not available as a separate replacement part

### 3 - Cable

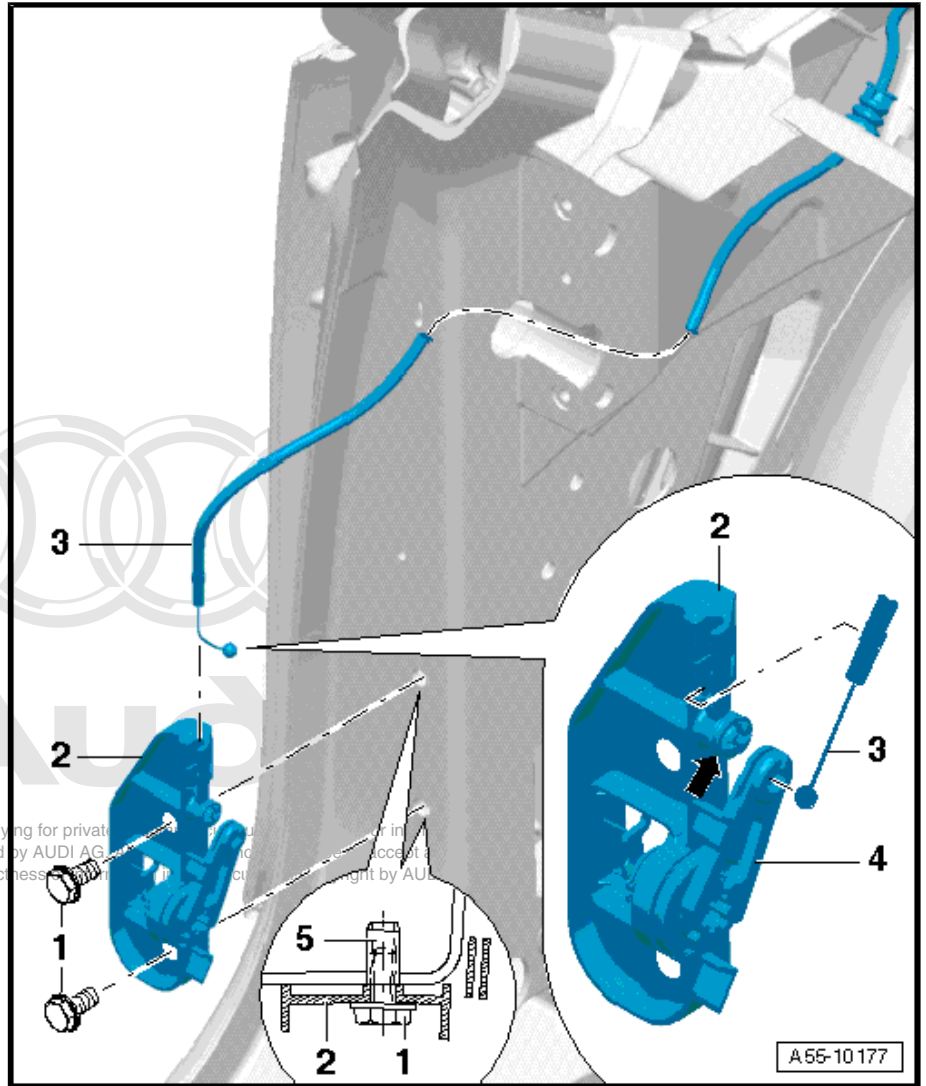
- ☐ If fitted correctly, cable must run in idler roller -arrow- in mounting bracket -2-.

### 4 - Operating lever

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

### 5 - Pop rivet nut

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## 2 Bonnet - TT RS

### 2.1 Bonnet - exploded view

#### 1 - Locating element

- ☐ For striker
- ☐ Removing and installing  
⇒ ["2.5 Removing and installing strikers \(left and right\)", page 26](#)

#### 2 - Bolt

- ☐ 2 Nm

#### 3 - Striker

- ☐ Removing and installing  
⇒ [page 26](#)
- ☐ Adjusting  
⇒ ["2.8 Adjusting bonnet", page 29](#)

#### 4 - Bonnet

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

#### 5 - Nuts

- ☐ 9 Nm

#### 6 - Striker with arrester

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

#### 7 - Bump stop

#### 8 - Adjusting buffer

- ☐ Adjusting  
⇒ ["2.8 Adjusting bonnet", page 29](#)

#### 9 - Impact guard

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

#### 10 - Bonnet hinge

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

#### 11 - Bolt

- ☐ Note different lengths
- ☐ 34 Nm

#### 12 - Gas strut

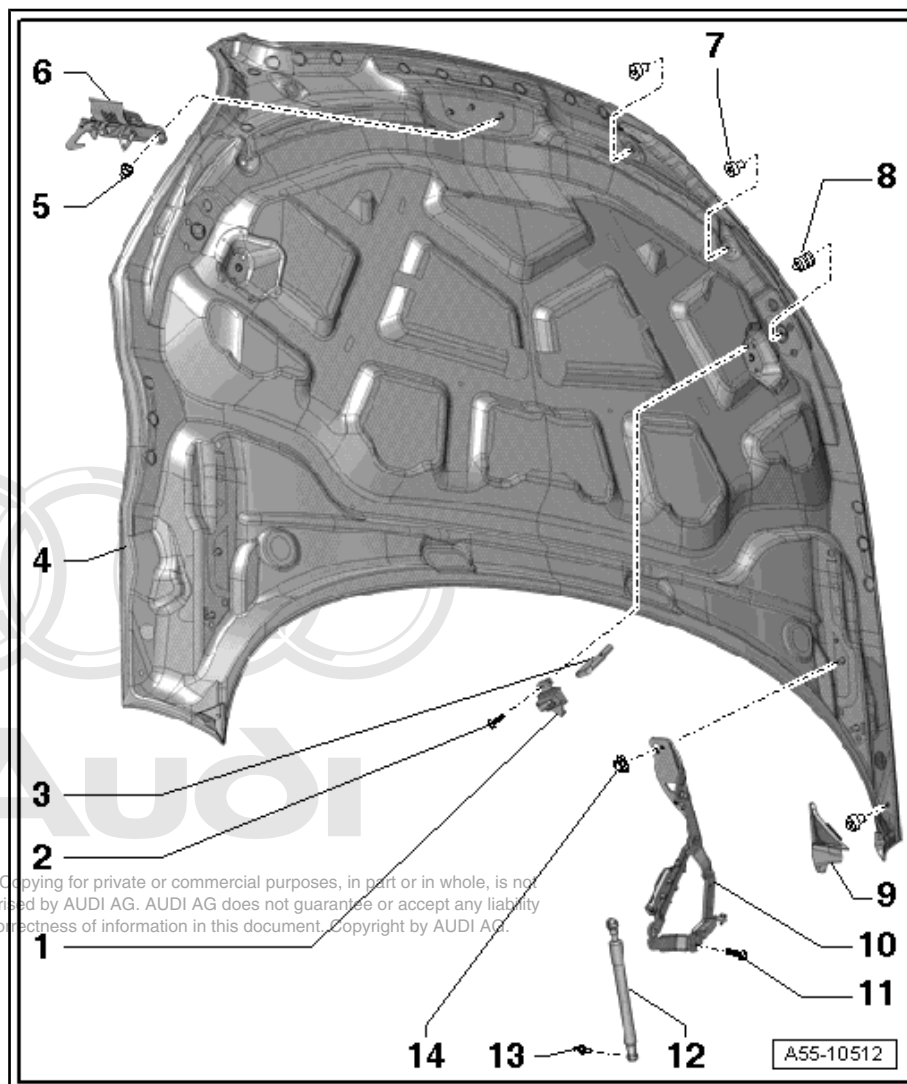
- ☐ Removing and installing ⇒ [page 31](#)

#### 13 - Ball stud

- ☐ 23 Nm

#### 14 - Nut

- ☐ 34 Nm



## 2.2 Removing and installing bonnet

### Removing

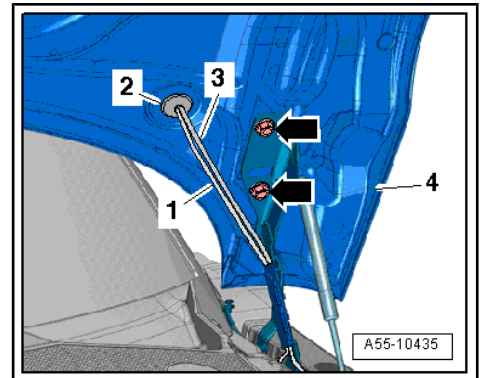
- Remove washer jets ⇒ Rep. Gr. 92 .
- Pull sealing plug -2- out of bonnet.
- Guide electrical wiring harness -3- and washer fluid line -1- out of bonnet.



#### WARNING

##### *Risk of injury!*

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



- Unscrew nuts -arrows- (left and right) at hinge.
- Detach bonnet -4-.

### Installing

- Tightening torques ⇒ [page 24](#)

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

- Adjust bonnet ⇒ [page 29](#) .

## 2.3 Removing and installing bonnet hinge

### Removing

- Remove bonnet ⇒ [page 25](#) .
- Disengage gas strut -2- at bonnet hinge ⇒ [page 31](#) .
- Release retaining tabs and disengage duct -1- at bonnet hinge.
- Use a felt-tip pen to mark installation position of bonnet hinge -3- for re-installation.
- Remove bolts -4- and -5-.

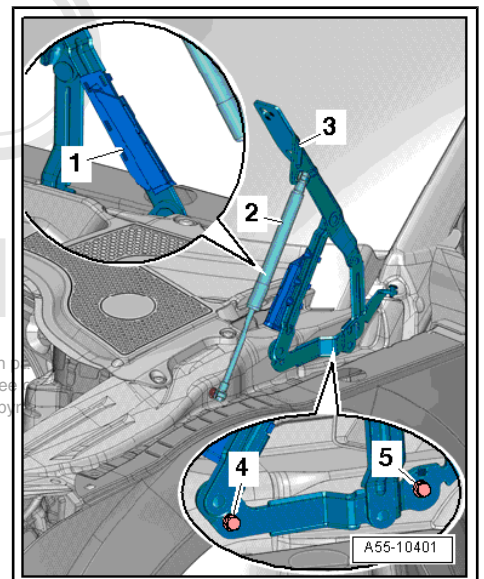


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*Bolts -4- and -5- have different lengths.*

- Detach bonnet hinge.

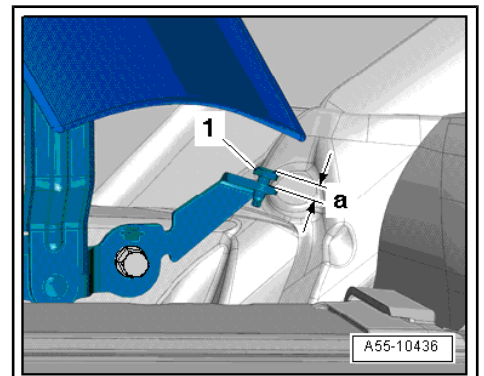


### Installing

- Tightening torques ⇒ [page 24](#)

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

- Set stop bolt -1- for bonnet hinge to dimension -a-.
- Dimension -a- = 34 mm
- Install bonnet hinge according to markings made during removal.
- Adjust bonnet ⇒ [page 29](#) .



## 2.4 Removing and installing striker with arrester

### Removing

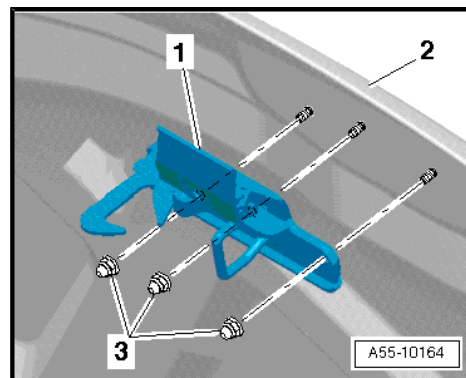
- Unscrew cap nuts -3-.
- Detach striker -1- with arrester at bonnet -2-.

### Installing

- Tightening torque ⇒ [page 24](#)

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Install in reverse order of removal.



## 2.5 Removing and installing strikers (left and right)

### Removing

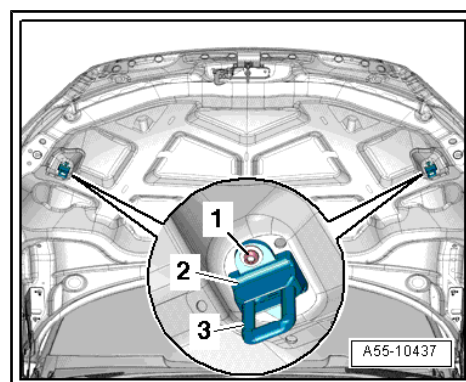
- Open bonnet.
- Remove bolt -1- and detach locating element -2- for striker.
- Remove striker -3- for bonnet lock.

### Installing

- Tightening torques ⇒ [page 24](#)

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

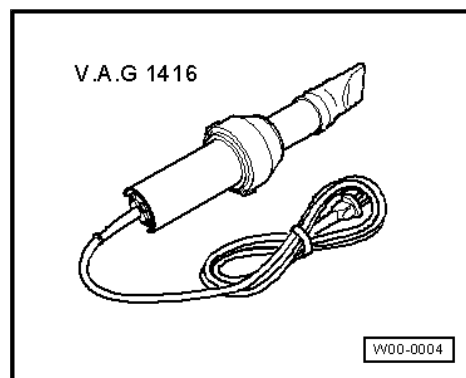
- Adjust striker ⇒ [“2.8 Adjusting bonnet”, page 29](#) .



## 2.6 Removing and installing impact guard

### Special tools and workshop equipment required

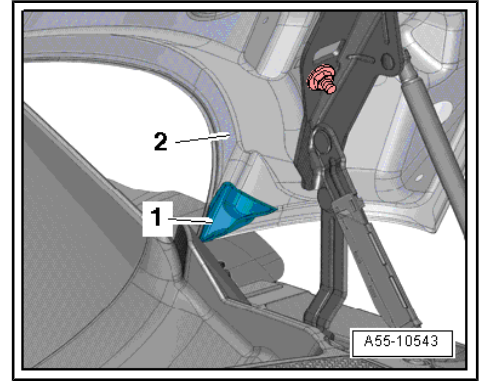
- ◆ Hot-air blower -V.A.G 1416-



- ◆ Cleaning solution -D 009 401 04-

## Removing

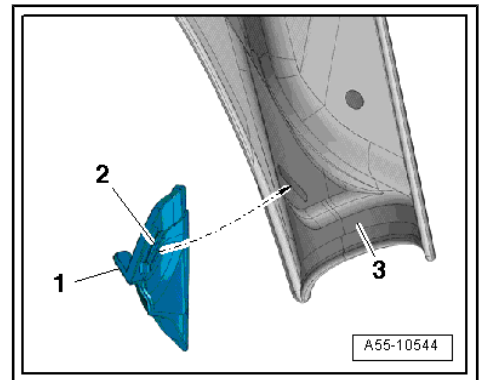
- Open bonnet.
- Carefully heat impact guard -1- with hot-air blower -V.A.G 1416- and pull impact guard off bonnet -2- in bonded area.
- Detach impact guard.



## Installing

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

- Remove any residual adhesive with adhesive strip remover - VAS 6349- .
- Clean bonding surface on body with cleaning solution -D 009 401 04- .
- Peel off protective film and insert guide -2- on impact guard -1- into mounting on bonnet -3-.
- Impact guard must be flush with outer edge of bonnet.
- Press on impact guard over entire length.



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## 2.7 Gap widths at bonnet

### Gap widths of bonnet to radiator grille, bumper and headlights

#### A - Bonnet to bumper

- Gap width -a- =  $4.5 \pm 0.5$  mm

-1- Bonnet

-2- Bumper

□ Adjusting ⇒ [page 29](#)

#### B - Bonnet to radiator grille (at side)

- Gap width -b- (from top to bottom) =  $4.0 \dots 2.5 \pm 0.5$  mm

-1- Bonnet

-3- Radiator grille

□ Adjusting ⇒ [page 29](#)

#### C - Bonnet to radiator grille

- Gap width -c- =  $4.4 \pm 0.5$  mm
- Projection -d- =  $1.5 \pm 0.5$  mm

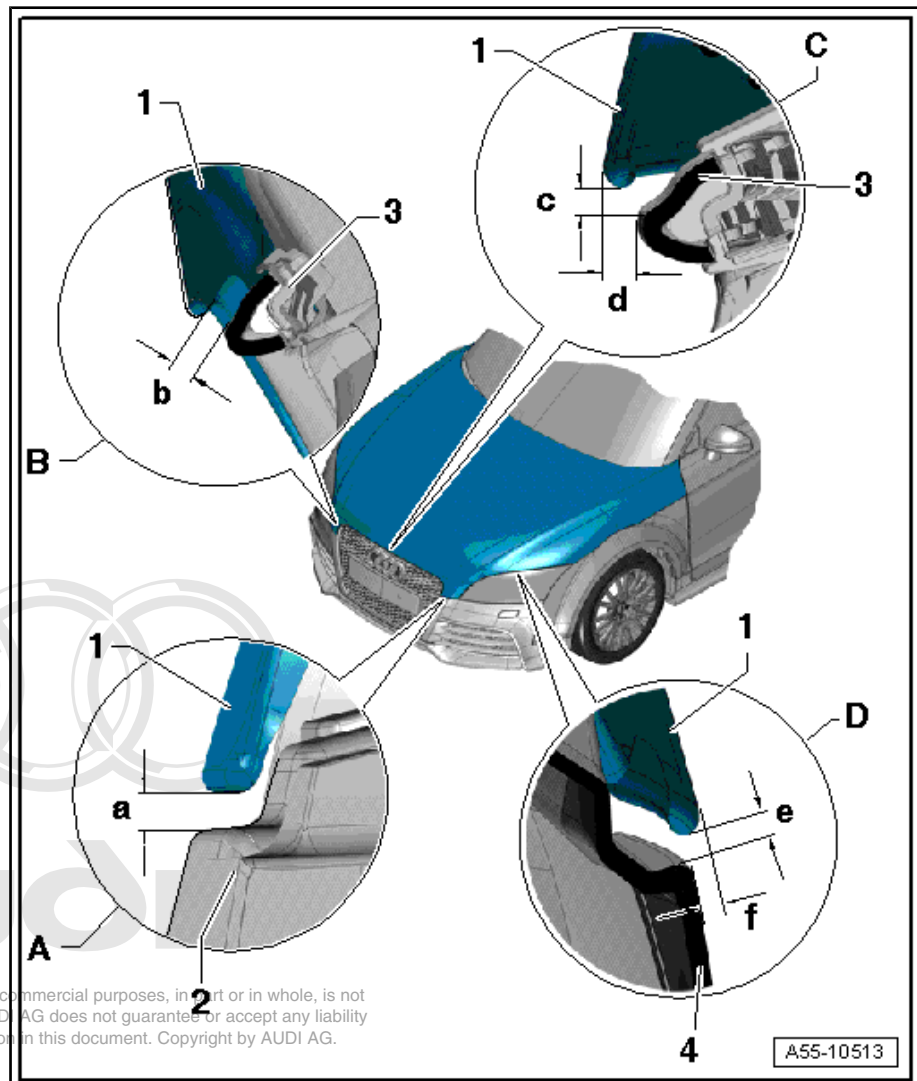
-1- Bonnet

-3- Radiator grille

□ Adjusting ⇒ [page 29](#)

#### D - Bonnet to headlight

- Gap width -e- (from top to bottom) =  $3.0 \dots 1.6 \pm 0.5$  mm
- Projection -f- =  $3.0 \pm 0.5$  mm



### Gap widths of bonnet to wing and front door



### A - Bonnet to wing (in area of headlight)

- Gap width -a- =  $2.5 \pm 0.5$  mm

-1- Bonnet

-2- Wing (front section)

□ Adjusting ⇒ [page 29](#)

### B - Bonnet to front door

- Gap width -b- =  $3.5 \pm 0.5$  mm

- Projection -c- =  $0.0 + 1.0$  mm

-1- Bonnet

-3- Front door

□ Adjusting ⇒ [page 29](#)

### C - Bonnet to wing (in area of A-pillar)

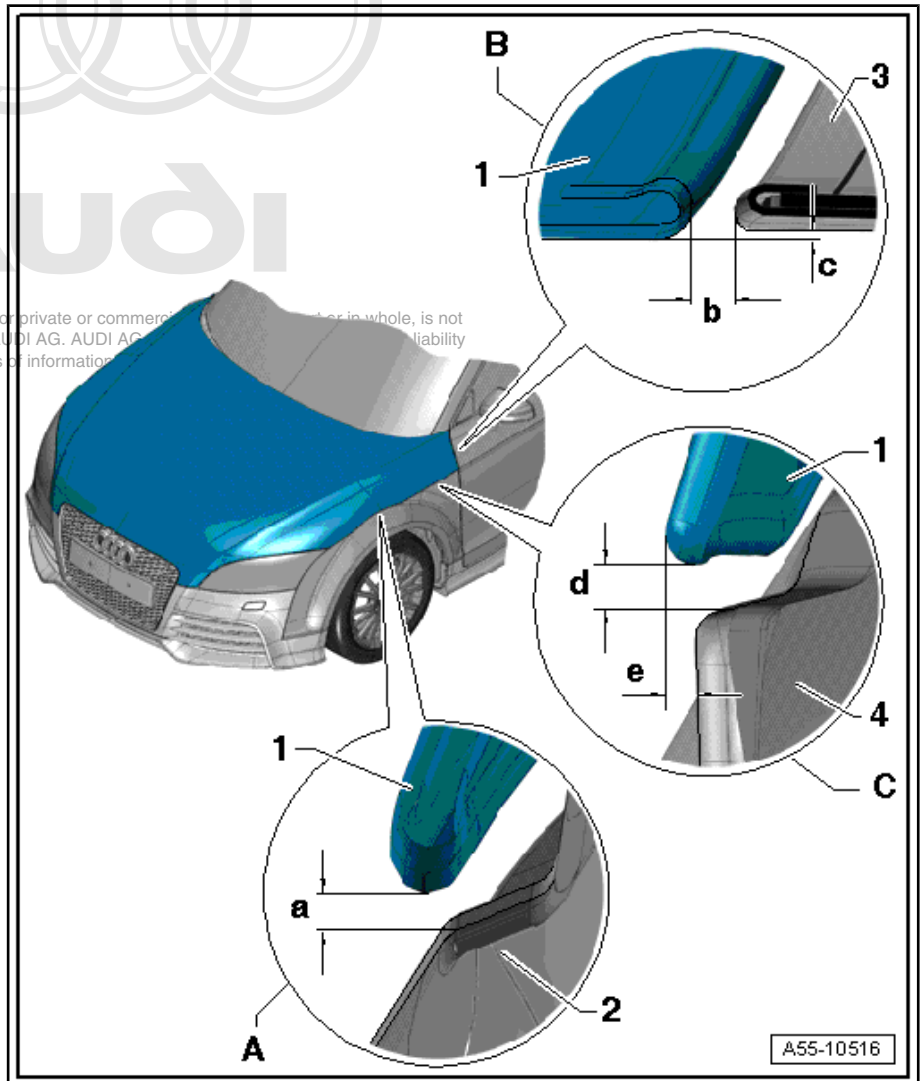
- Gap width -d- =  $3.5 \pm 0.5$  mm

- Projection -e- =  $2.0 \pm 0.5$  mm

-1- Bonnet

-4- Wing (rear section)

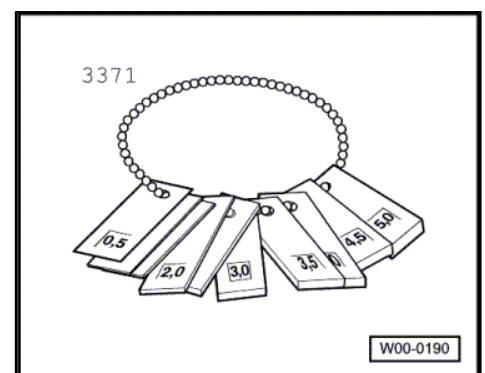
□ Adjusting ⇒ [page 29](#)



## 2.8 Adjusting bonnet

Special tools and workshop equipment required

- ◆ Setting gauge -3371-



## Procedure

- Gap widths ⇒ [page 28](#)
- Tightening torques ⇒ [page 24](#)

### Lateral and longitudinal adjustment at hinge:

- Loosen nuts -A- at hinge -2- on both sides.
- Adjust bonnet -1- (lateral and longitudinal adjustment).
- Tighten nuts.

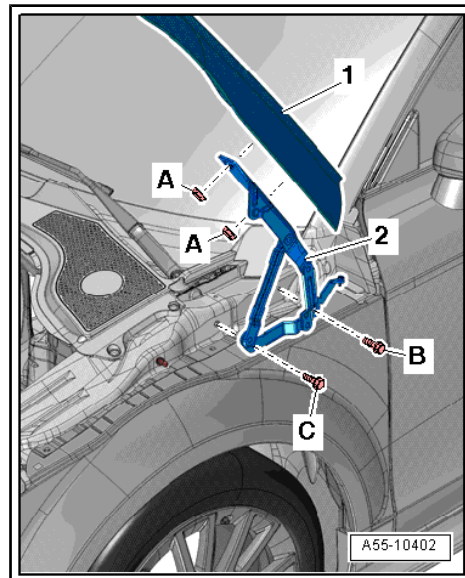
### Height adjustment at hinge:

- Loosen bolts -B- and -C- at hinge on both sides.
- Adjust height of hinge -2- in area of bolt -B-.
- Tighten bolts.



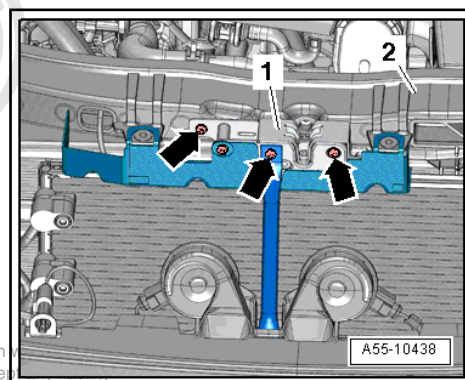
## Note

Check height adjustment of stop bolt for bonnet hinge  
⇒ [page 25](#).



### Height adjustment at bonnet lock:

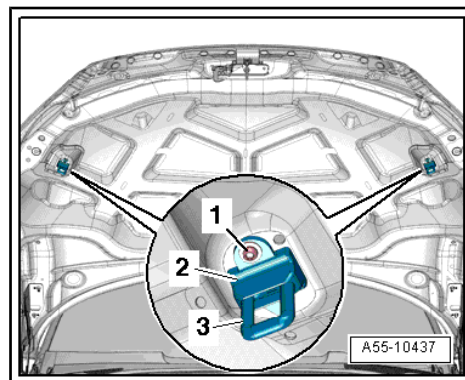
- Tightening torque ⇒ [page 33](#)
- Loosen bolts -arrows-.
- Adjust height of bonnet lock -1- in lock carrier (front) -2-.
- The bonnet striker with arrester must engage vertically in the bonnet lock.
- Tighten bolts.



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### Height adjustment at bonnet lock (left and right):

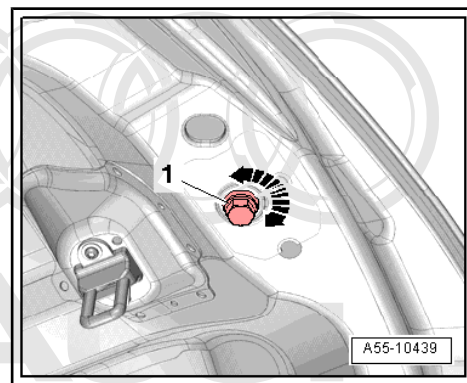
- Tightening torque ⇒ [page 24](#)
- Remove bolt -1- and detach locating element -2- for striker.
- Screw striker -3- for bonnet lock as far as it will go into bonnet and then screw out by 3 turns.
- Closing check for bonnet: Bonnet must fall into bonnet lock from neutral position and engage fully.
- If necessary, adjust height of striker.
- Fit locating element -2- onto striker -3-.
- Secure locating element with bolt.





### Adjusting bump stop:

- Inner bump stops -1- are used as impact protection and should not make contact when bonnet is closed.
- Turn bump stops for bonnet to adjust height -arrows-.



## 2.9 Removing and installing gas strut and releasing gas from gas strut

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### Note

*Different gas struts are installed; the procedures for removal also differ.*

### Removing gas strut with steel spring

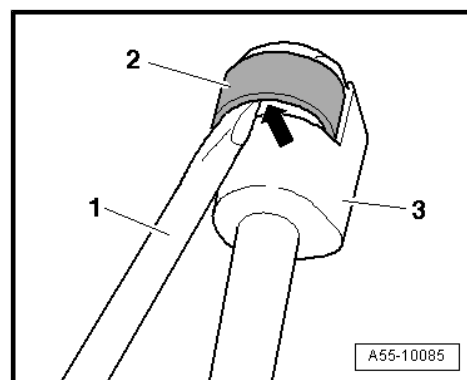


### WARNING

*Risk of accident.*

- ◆ **Before removing a gas strut, support bonnet or secure it in position.**

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



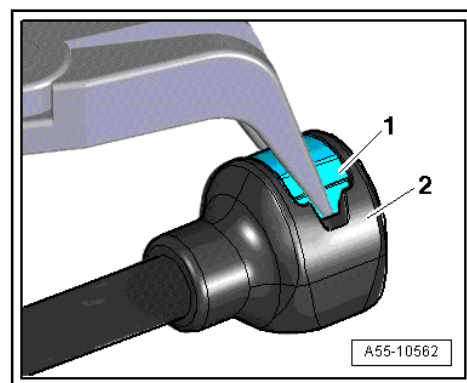
### Removing gas strut with plastic clip

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

### Installing

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

- The cylinder end of the gas strut must be installed on the bonnet side.
- Press gas strut onto ball stud until it engages audibly.

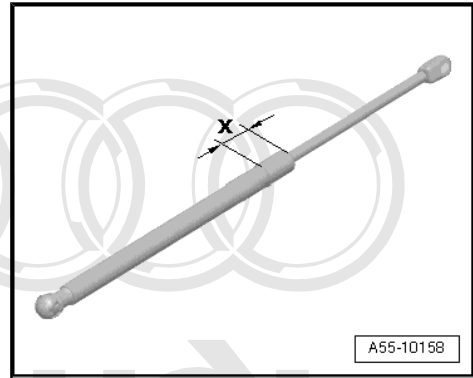


**Releasing gas from gas strut**

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

**WARNING*****Risk of injury!***

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

**Note**

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

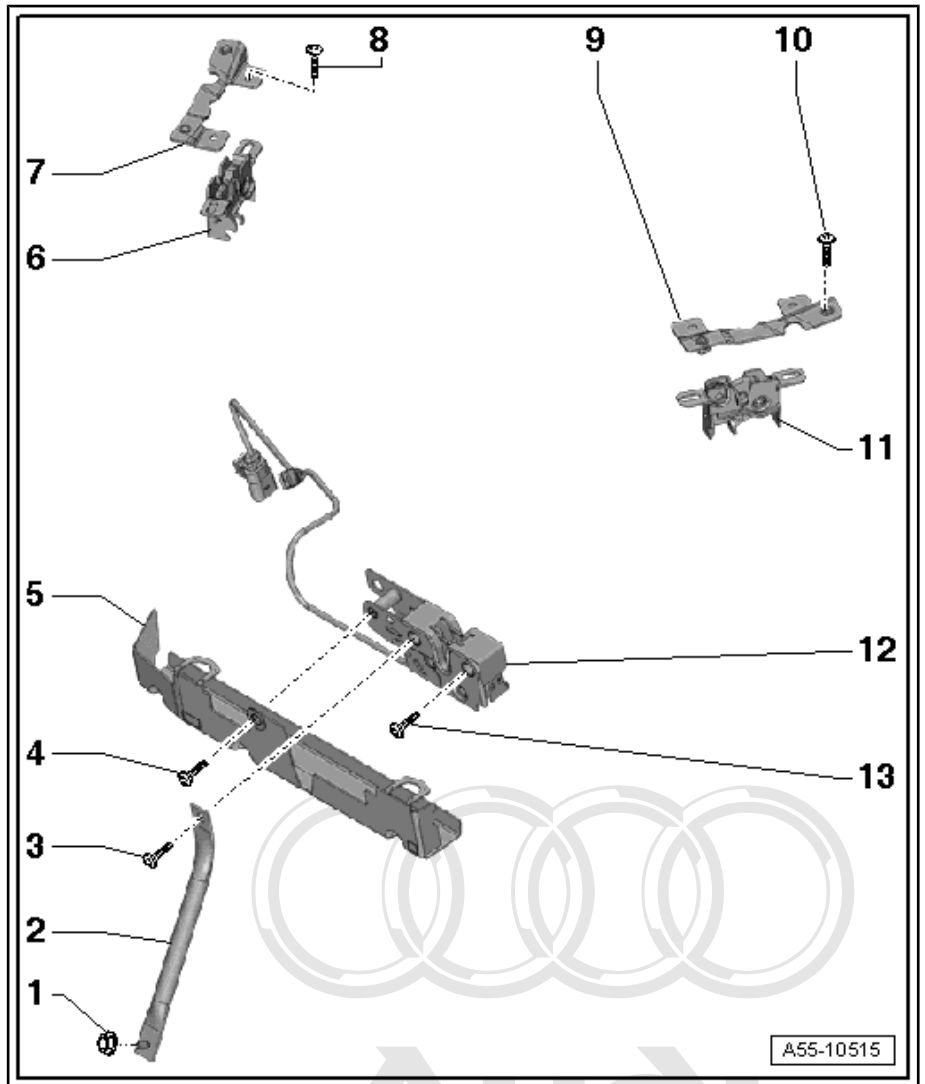
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- Saw open first third of cylinder part of gas strut (measured from piston rod end of cylinder).

### 3 Bonnet lock - TT RS

#### 3.1 Bonnet lock - exploded view

- 1 - Nut
  - ☐ 9 Nm
- 2 - Brace
- 3 - Bolt
  - ☐ 11 Nm
- 4 - Bolt
  - ☐ 11 Nm
- 5 - Anti-theft bracket
- 6 - Bonnet lock (right-side)
  - ☐ Removing and installing  
⇒ [page 35](#)
- 7 - Mounting (right-side) for bonnet lock
- 8 - Bolt
  - ☐ 3 Nm
- 9 - Mounting (left-side) for bonnet lock
- 10 - Bolt
  - ☐ 10 Nm
- 11 - Bonnet lock (left-side)
  - ☐ Removing and installing  
⇒ [page 35](#)
- 12 - Bonnet lock
  - ☐ With bonnet contact switch -F266-
  - ☐ Can be used to adjust height of bonnet  
⇒ [page 29](#)
  - ☐ Removing and installing  
⇒ [page 34](#)
- 13 - Bolt
  - ☐ 11 Nm

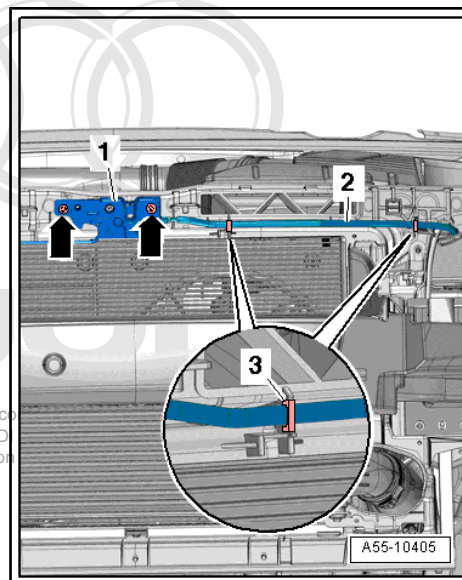


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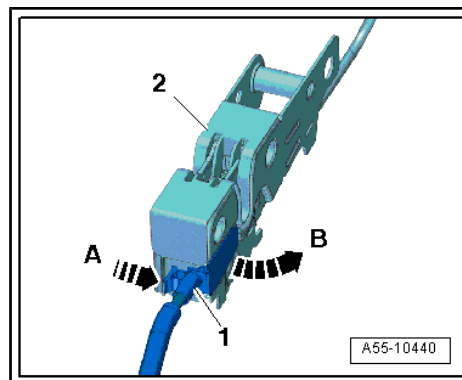
## 3.2 Removing and installing bonnet lock

### Removing

- Detach bonnet contact switch -F266- only at bonnet lock  
⇒ [page 97](#) .
- Prise retaining clips -3- off cable guide -2-.
- Remove bolts -arrows-.
- Detach bonnet lock -1- from lock carrier.



- Press release lever at cable -1- in direction of -arrow A-.
- Swivel support bracket with cable in direction of -arrow B- and disengage it at bonnet lock -2-.

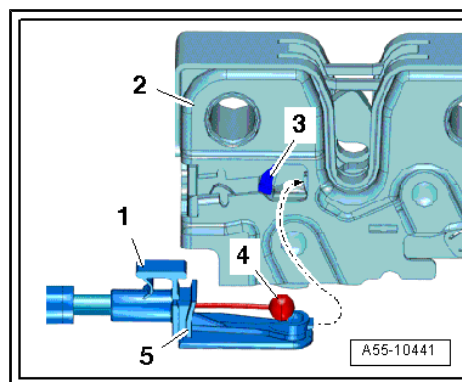


### Installing

- Tightening torque ⇒ [page 33](#)

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

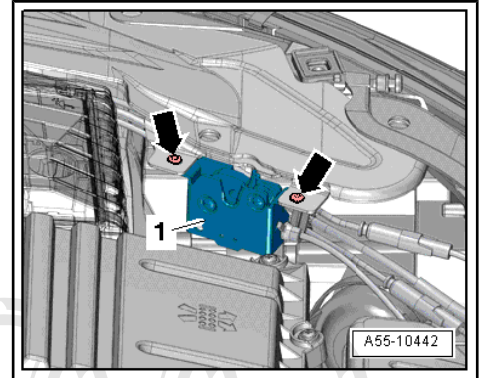
- Engage support bracket -5- with cable at bonnet lock -2-  
-arrow- and swivel it forwards towards bonnet lock until catch  
-1- engages. This causes cable nipple -4- to engage at oper-  
ating lever -3- for bonnet lock release.
- Install bonnet contact switch -F266- at bonnet lock  
⇒ [page 97](#) .
- Adjust bonnet ⇒ [page 29](#) .



### 3.3 Removing and installing bonnet lock (left and right)

#### Removing

- Remove bolts -arrows-.
- Take out bonnet lock -1- until cable is visible.



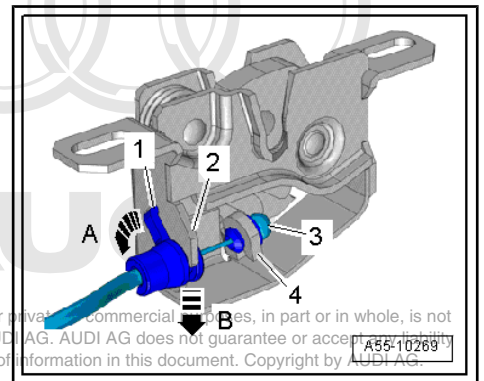
- Release retaining tab -1- -arrow A- and pull cable support bracket out of mounting -2- -arrow B-.
- Pull cable nipple -3- out of release lever -4- at bonnet lock.
- Detach bonnet lock.

#### Installing

- Tightening torque ⇒ [page 33](#)

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

- Adjust bonnet ⇒ [page 29](#) .



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### 3.4 Cable for bonnet and cable operating lever - exploded view

#### 1 - Bonnet lock

#### 2 - Cable (right-side)

- ☐ For bonnet lock (right-side)
- ☐ Removing and installing ⇒ [page 40](#)

#### 3 - Bonnet lock (right-side)

#### 4 - Mounting bracket

- ☐ For cables leading to bonnet locks (left and right)
- ☐ Removing and installing ⇒ [page 41](#)

#### 5 - Cover

- ☐ For cable

#### 6 - Grommet

- ☐ To seal off passenger compartment

#### 7 - Bolt

- ☐ 10 Nm

#### 8 - Mounting bracket for operating lever

- ☐ Removing and installing ⇒ [page 37](#)

#### 9 - Operating lever

#### 10 - Retaining clip

- ☐ For mounting bracket with cable

#### 11 - Bonnet lock (left-side)

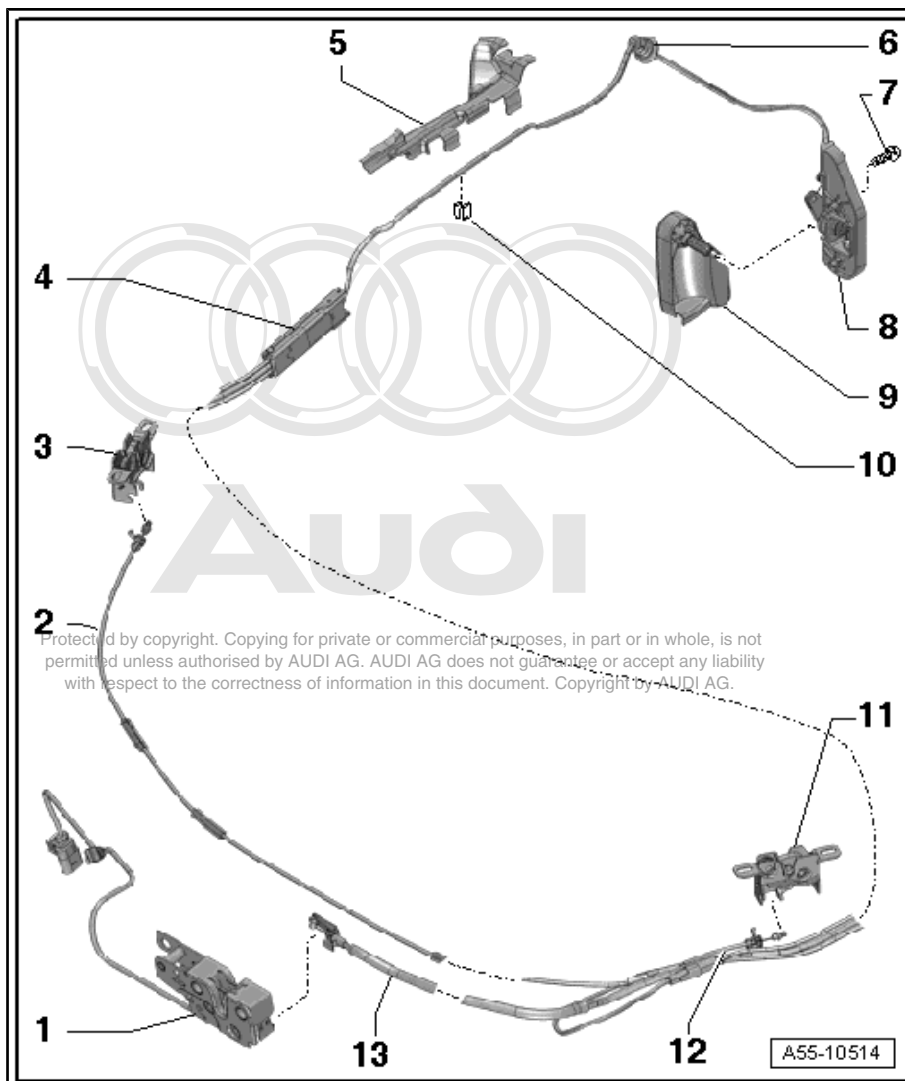
- ☐ Removing and installing ⇒ [page 35](#)

#### 12 - Cable (left-side)

- ☐ For bonnet lock (left-side)
- ☐ Removing and installing ⇒ [page 39](#)
- ☐ Adjusting ⇒ [page 43](#)

#### 13 - Cable

- ☐ For bonnet lock
- ☐ Removing and installing ⇒ [page 37](#)



### 3.5 Removing and installing mounting bracket for operating lever

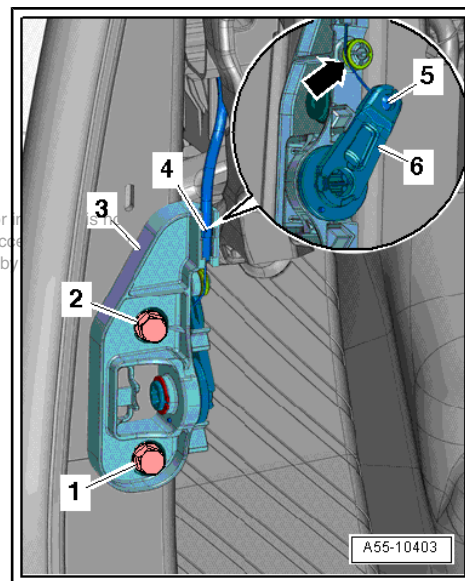
#### Removing

- Remove dash panel trim (driver side) ⇒ Rep. Gr. 70 .
- Remove A-pillar trim (bottom) ⇒ Rep. Gr. 70 .
- Remove bolts -1- and -2-.
- Pull cable -4- for bonnet out of support bracket and detach at idler roller -arrow-.
- Disengage cable nipple -5- from operating lever -6-.
- Detach mounting bracket -3- for operating lever.

#### Installing

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

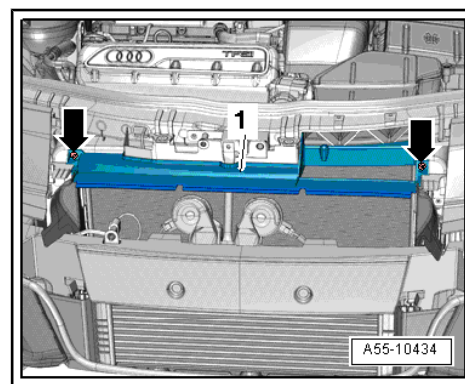
- Tightening torque ⇒ [page 36](#)
- Cable nipple must be inserted correctly in operating lever.
- Insert cable in idler roller and press cable sleeve into support bracket.
- Install A-pillar trim (bottom) ⇒ Rep. Gr. 70 .
- Install dash panel trim (driver side) ⇒ Rep. Gr. 70 .



### 3.6 Removing and installing cable for bonnet lock

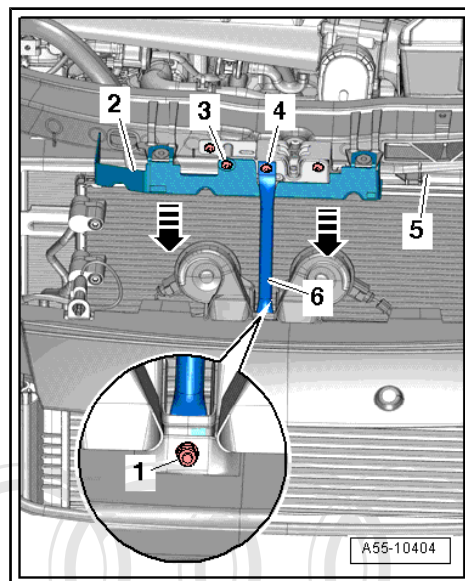
#### Removing

- Remove bumper ⇒ [page 156](#) .
- Remove bolts -arrows-.
- Detach air duct -1-.

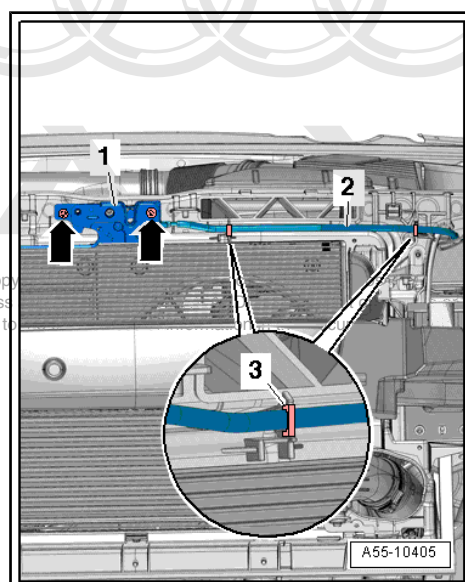




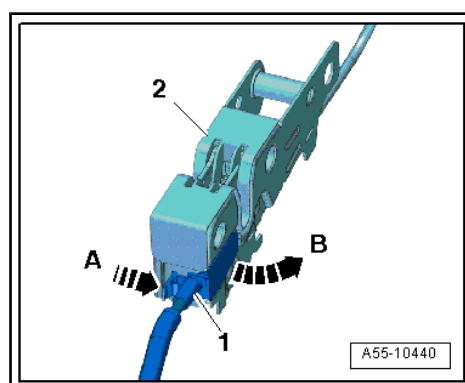
- Unscrew nut -1- and bolts -3- and -4-.
- Detach brace -6-.
- Disengage anti-theft bracket -2- from bottom of lock carrier -5- -arrows- and detach.



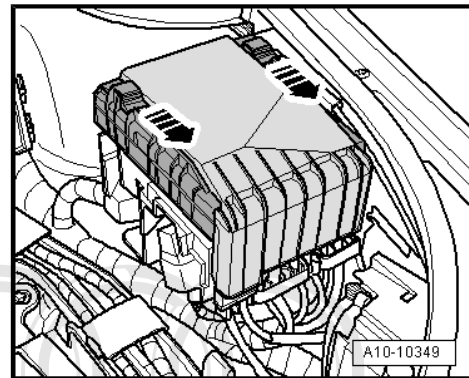
- Prise retaining clips -3- off cable guide -2-.
- Remove bolts -arrows-.
- Detach bonnet lock -1- from lock carrier.



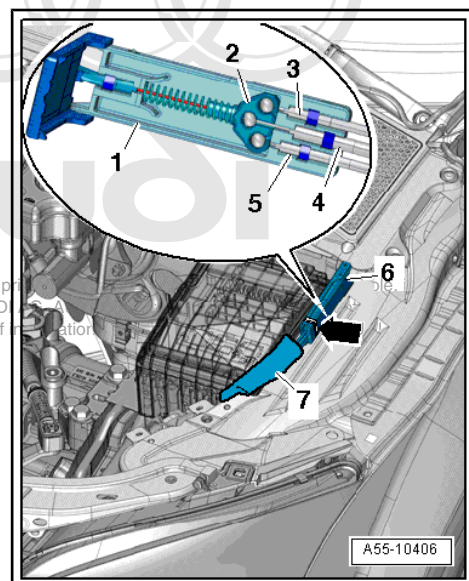
- Press release lever at cable -1- in direction of -arrow A-.
- Swivel support bracket with cable in direction of -arrow B- and disengage it at bonnet lock -2-.



- Slide both locking bars in direction of -arrows- and detach cover for engine compartment electronics box.



- Push foam sleeve -7- at cable mounting bracket -6- to one side.
- Cut through cable tie -arrow-.
- Release retaining clips and open cover.
- Take cable support bracket -4- out of cable mounting bracket -1-.
- Disengage cable nipple for bonnet lock from connecting piece -2-.



#### Note

Ignore -items 3 and 5-.

- Guide cable out towards front through opening in lock carrier.

#### Installing

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



#### Note

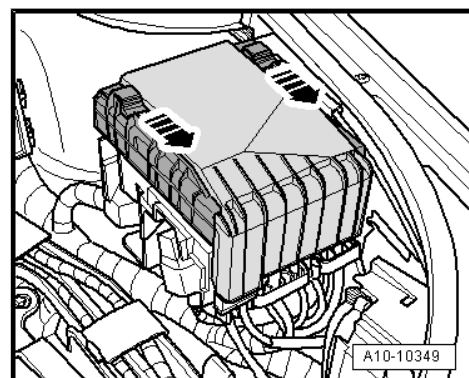
Re-attach all cable ties at the same locations when re-installing.

- Install cover for engine compartment electronics box ⇒ Rep. Gr. 97 .
- Install bonnet lock ⇒ [page 34](#) .
- Install bumper ⇒ [page 156](#) .

### 3.7 Removing and installing cable for bonnet lock (left-side)

#### Removing

- Remove bonnet lock (left-side) ⇒ [page 35](#) .
- Slide both locking bars in direction of -arrows- and detach cover for engine compartment electronics box.



- Push foam sleeve -7- at cable mounting bracket -6- to one side.
- Cut through cable tie -arrow-.
- Release retaining clips and open cover.
- Take cable support bracket -3- out of cable mounting bracket -1-.
- Disengage cable nipple for bonnet lock (left-side) from connecting piece -2-.



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Ignore -items 4 and 5-.

- Cut open cable tie and detach cable for bonnet lock.

### Installing

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



### Note

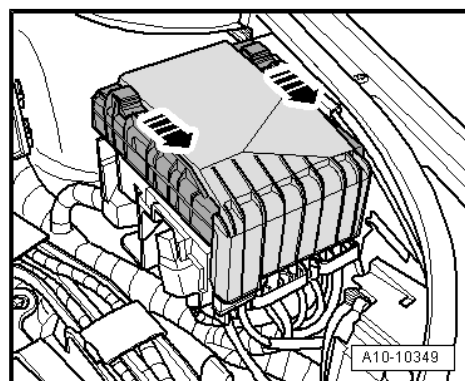
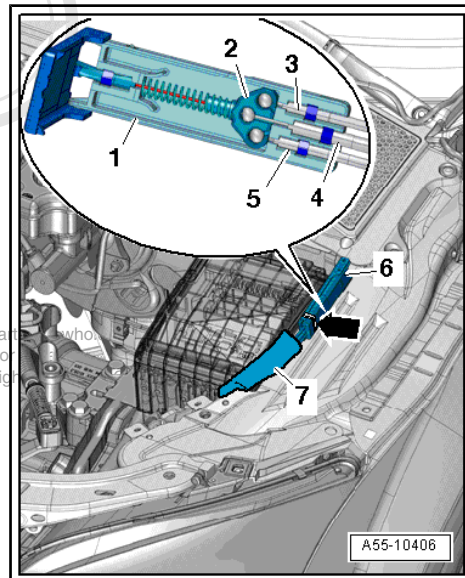
Re-attach all cable ties at the same locations when re-installing.

- Install bonnet lock (left-side) ⇒ [page 35](#) .
- Install cover for engine compartment electronics box ⇒ Rep. Gr. 97 .

## 3.8 Removing and installing cable for bonnet lock (right-side)

### Removing

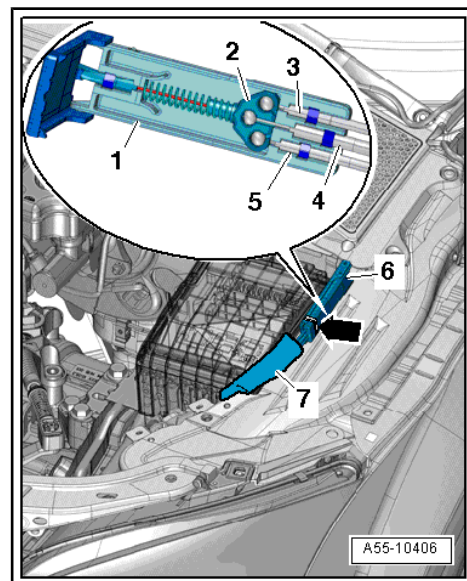
- Slide both locking bars in direction of -arrows- and detach cover for engine compartment electronics box.



- Push foam sleeve -7- at cable mounting bracket -6- to one side.
- Cut through cable tie -arrow-.
- Release retaining clips and open cover.
- Take cable support bracket -5- out of cable mounting bracket -1-.
- Disengage cable nipple for bonnet lock (right-side) from connecting piece -2-.



Ignore -items 3 and 4-.



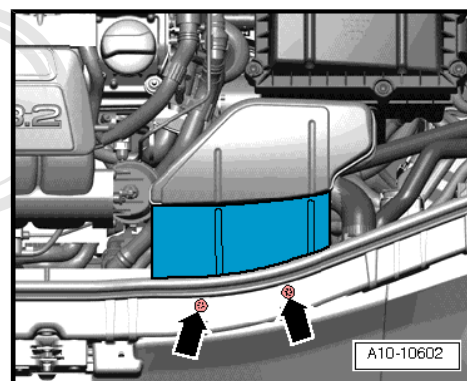
- Unscrew bolts -arrows- and detach air duct.
- Remove bonnet lock (right-side) → [page 35](#).
- Cut open cable tie and detach cable for bonnet lock.

#### Installing

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



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

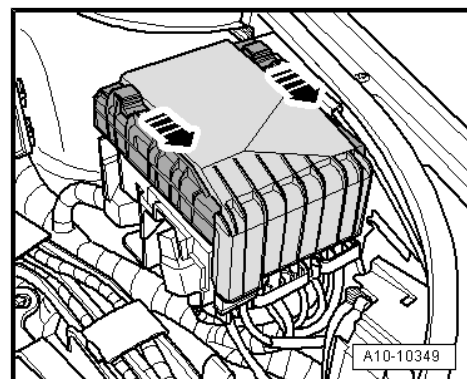


- Install bonnet lock (right-side) → [page 35](#).
- Install cover for engine compartment electronics box → Rep. Gr. 97.

### 3.9 Removing and installing mounting bracket for bonnet lock cables

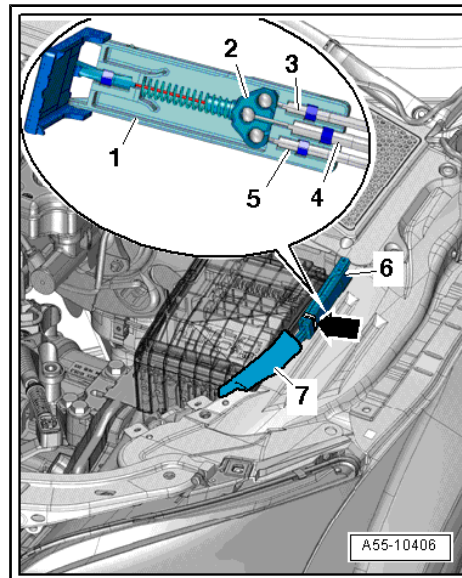
#### Removing

- Slide both locking bars in direction of -arrows- and detach cover for engine compartment electronics box.

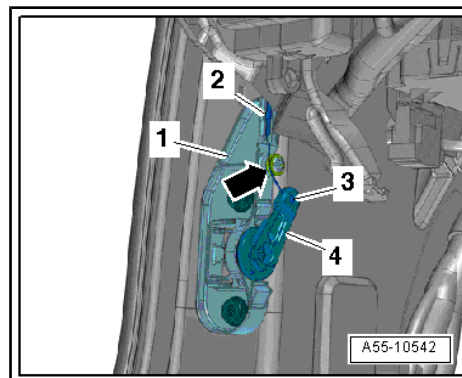




- Push foam sleeve -7- at cable mounting bracket -6- to one side.
- Cut through cable tie -arrow-.
- Release retaining clips and open cover.
- Take cable support brackets -3, 4, 5- out of cable mounting bracket -1-.
- Disengage cable nipple for bonnet lock from connecting piece -2-.



- Remove dash panel trim (driver side) ⇒ Rep. Gr. 70 .
- Remove A-pillar trim (bottom) ⇒ Rep. Gr. 70 .
- Pull cable -2- for bonnet out of support bracket -1- and detach at idler roller -arrow-.
- Disengage cable nipple -3- from operating lever -4-.



- Remove wiper arms ⇒ Rep. Gr. 92 .
- Remove bolts -3- and -4-.
- Pull off rubber seal -1-.

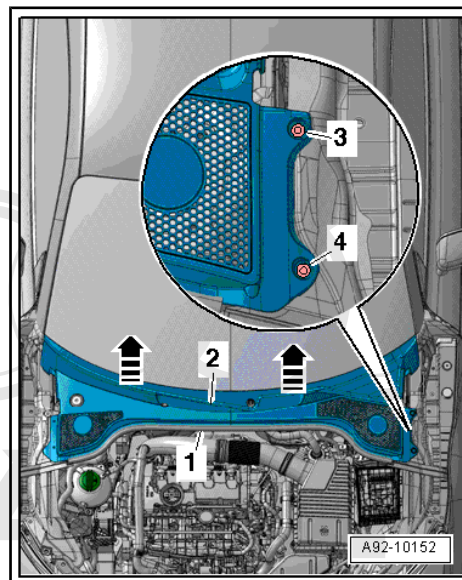


### Caution

**Risk of damage to plenum chamber cover.**

- ◆ Coat transition between windscreen and plenum chamber cover with a small amount of soap solution.

- Starting at edge of windscreen, carefully pull plenum chamber cover -2- vertically upwards out of retainer at windscreen -arrows-.



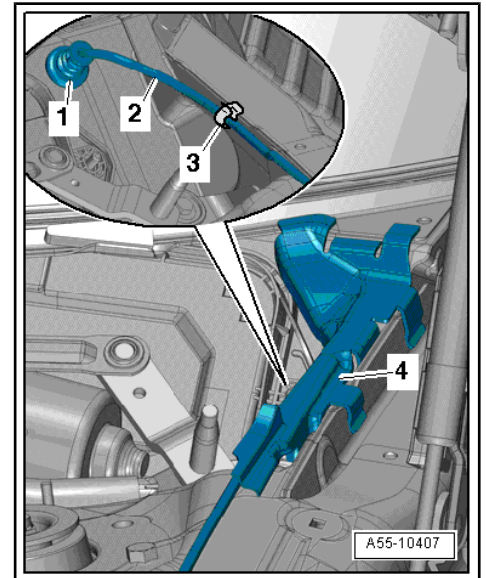
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- Detach cover -4- and take cable out of retaining clip -3-.
- Pull sealing grommet -1- with cable -2- out of opening in body.
- Remove cable mounting bracket for bonnet lock.

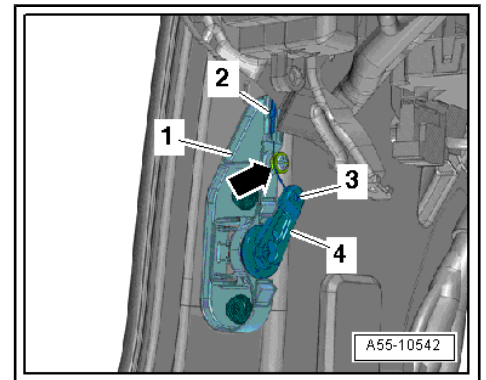
#### Installing

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

- Install plenum chamber cover ⇒ [page 8](#) .
- Install cover for engine compartment electronics box ⇒ Rep. Gr. 97 .



- Engage cable nipple -3- in operating lever -4-.
- Guide cable -2- for bonnet over idler roller -arrow- and press it into support bracket -1-.
- Install A-pillar trim (bottom) ⇒ Rep. Gr. 70 .
- Install dash panel trim (driver side) ⇒ Rep. Gr. 70 .

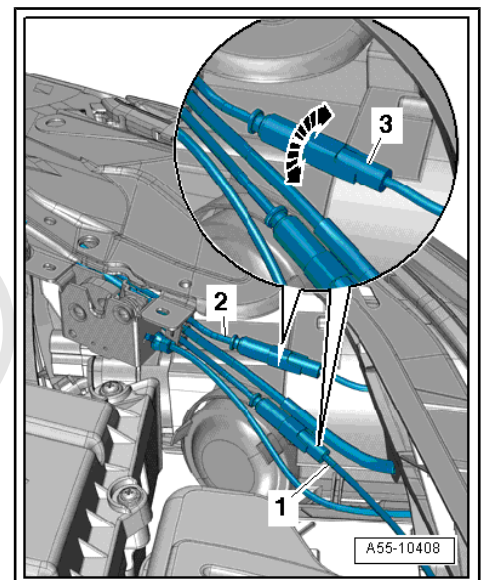


### 3.10 Adjusting cables for bonnet lock

#### Procedure

When the release lever is operated, the bonnet locks (left and right) should be operated simultaneously.

- Set bonnet locks (left and right) to “closed” position:
  - The operating cables should allow the catches on the bonnet locks to engage fully.
  - The operating cables -1- and -2- should then be slack.
- If necessary, turn operating cable adjuster -3- accordingly -arrows-.



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## 4 Rear lid - Coupé

### 4.1 Removing and installing rear lid - exploded view

#### 1 - Rear lid

- When removing or installing the rear lid, a 2nd mechanic is required to support and hold the rear lid.

##### ❑ Removing:

- Remove rear lid lining ⇒ Rep. Gr. 70 .
- Disconnect wiring and pull out of rear lid.
- Remove gas struts (left and right) ⇒ [page 48](#) .
- Unscrew bolts connecting rear lid hinges to rear lid ⇒ [page 47](#) .
- Detach rear lid.

##### ❑ Install in reverse sequence.

##### ❑ Adjusting:

- Gas struts must be fitted before adjusting new rear lid.

- Height and longitudinal adjustments at top of rear lid must be made via rear lid hinge.
- Height adjustments at bottom of rear lid must be made via rear lid lock.

- Align rear lid centrally according to specified gap widths ⇒ [page 46](#) .
- Adjust bump stops ⇒ [Item 2 \(page 44\)](#) .
- Removing and installing seal for rear lid ⇒ [page 53](#) .

#### 2 - Bump stop

- With the rear lid correctly adjusted and closed, the adjusting buffers must rest lightly against the body.
- Adjusting ⇒ [page 45](#) .

#### 3 - Pop rivet

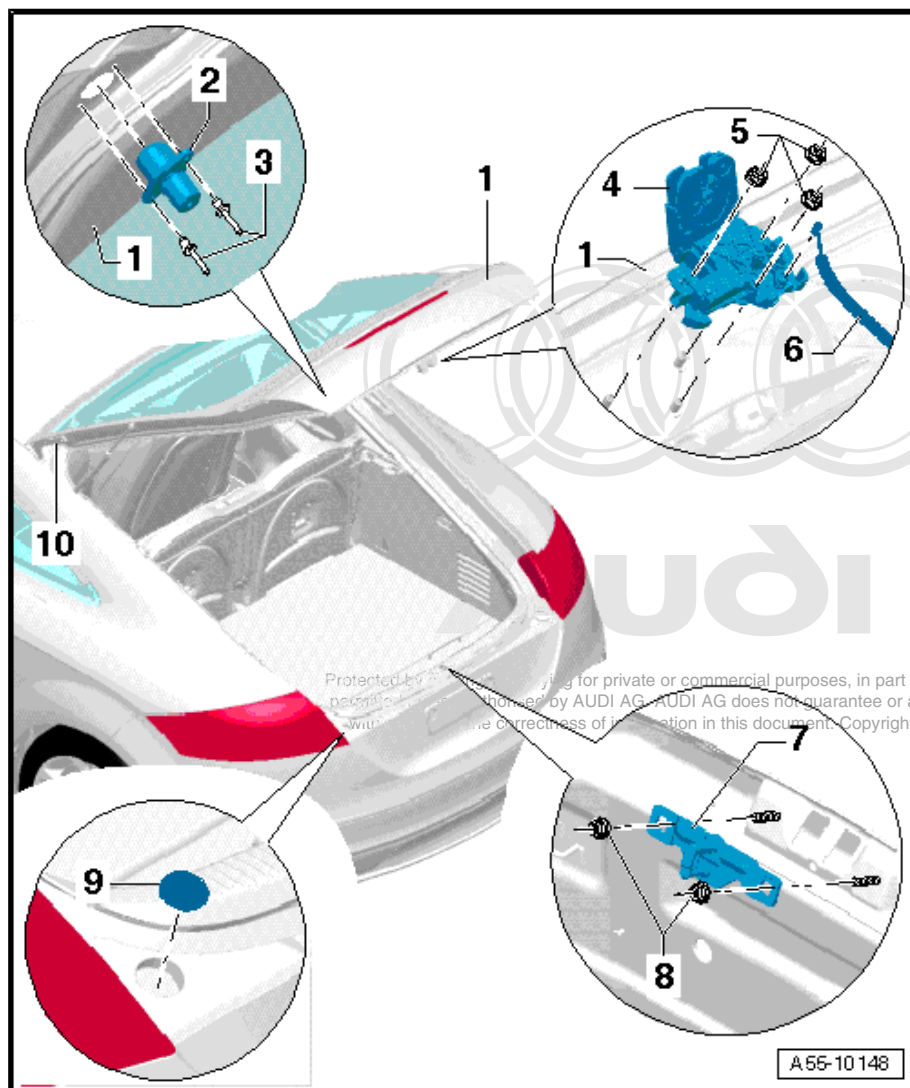
- To remove, drill out rivet heads and knock out rivet stems.

#### 4 - Rear lid lock

- To remove, unscrew bolts with washers and disengage cable.

#### 5 - Nuts

- 21 Nm





## 6 - Cable for manual release

### 7 - Striker plate

- ☐ Adjusting:
  - Hand-tighten bolts with washers [⇒ Item 5 \(page 44\)](#) (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 5 \(page 44\)](#) .

### 8 - Nuts

- ☐ 21 Nm

### 9 - Protective film

- ☐ Self-adhesive
- ☐ Peel off protective film before mounting.

### 10 - Rear lid hinge

- ☐ Removing and installing [⇒ page 47](#) .

## Adjusting bump stops

- Close rear lid.



### Note

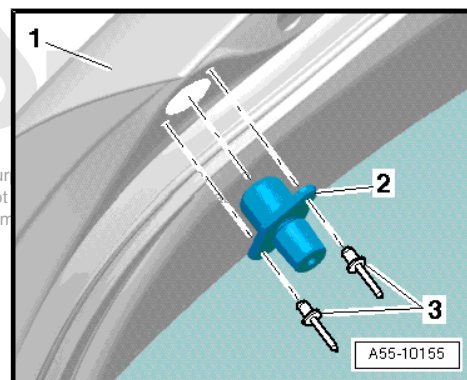
*With the rear lid correctly adjusted and closed, the adjusting buffers must rest lightly against the body.*

- Replacement buffers are pre-adjusted and should only be screwed in or out as and when required.
- Check gap widths [⇒ page 46](#) .



### Note

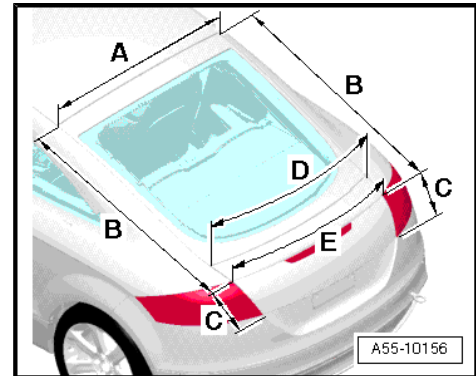
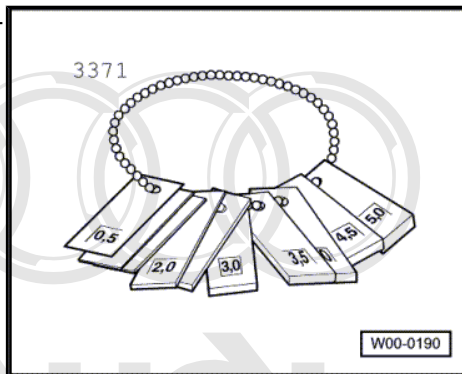
*To remove bump stop, drill rivet head off pop rivet -1-, knock out rivet stem and detach bump stop.*



## 4.2 Adjusting rear lid

Special tools and workshop equipment required

- ◆ Setting gauge -3371-



### Gap widths

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

- In area -A- = 4.5 mm  
± 0.5 mm
- In area -B- = 3.5 mm  
± 0.5 mm
- In area -C- = 4.0 mm  
± 0.5 mm
- In area -D- = 2.0 mm  
± 0.5 mm
- In area -E- = 2.0 mm  
± 0.5 mm

### 4.3 Removing and installing rear lid hinge - exploded view

#### 1 - Rear lid hinge

- ☐ To remove rear lid, only unscrew bolts -3-.
- ☐ Unfasten headliner in area of nut -4-.
- ☐ To remove, take out cover ⇒ page 47 and unscrew nut -4-.

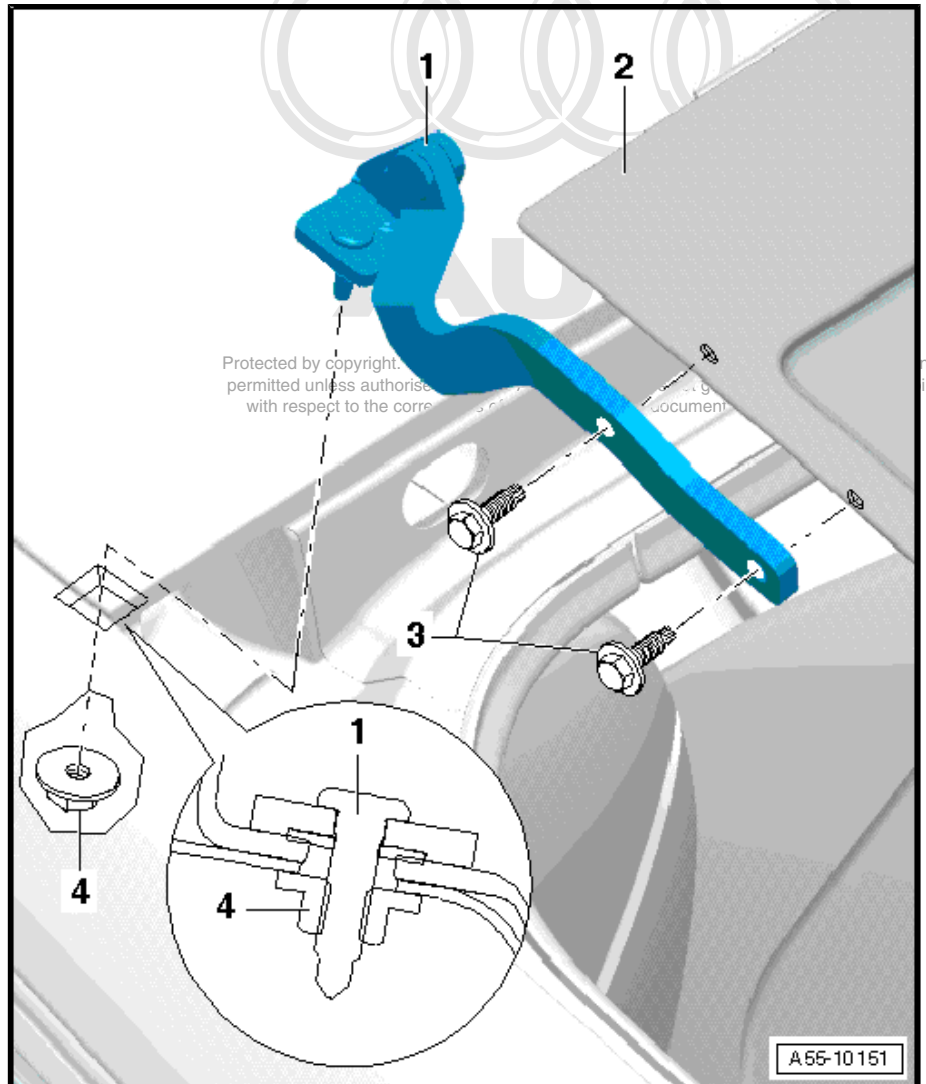
#### 2 - Rear lid

#### 3 - Bolt

- ☐ 21 Nm

#### 4 - Nut

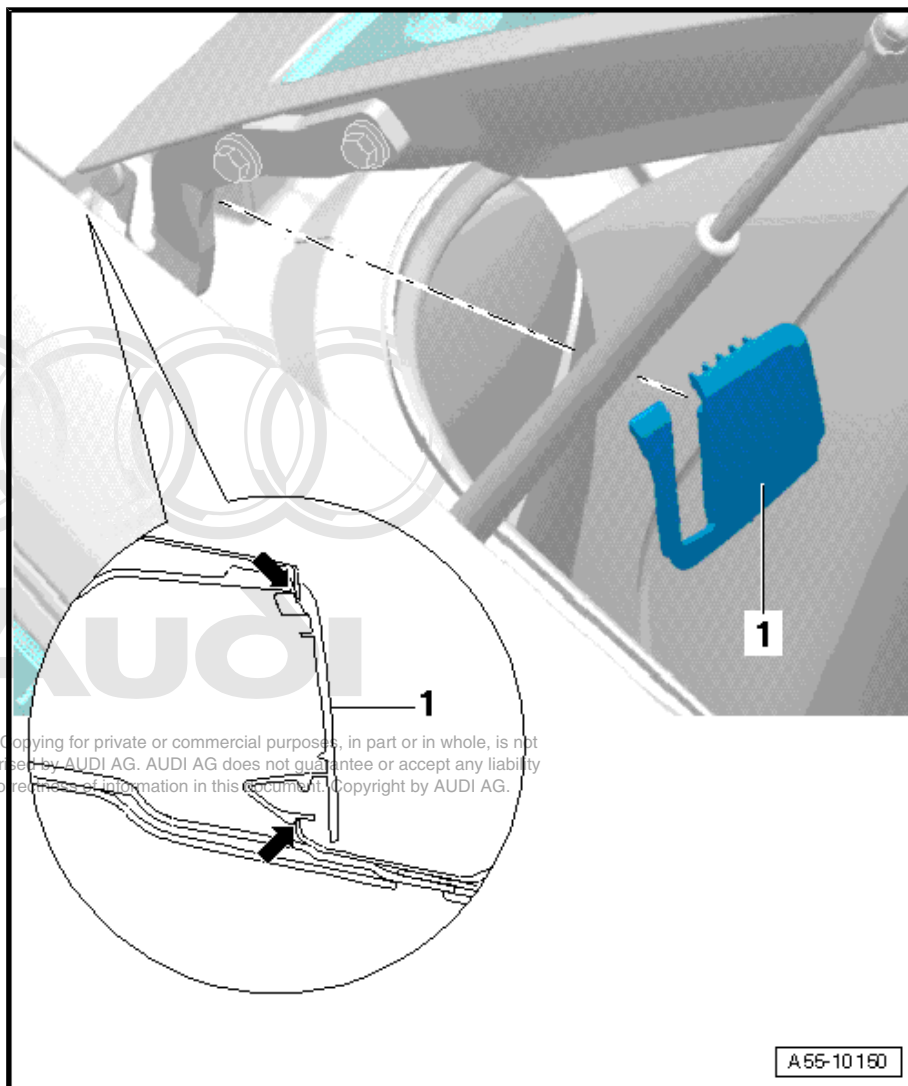
- ☐ 21 Nm



Removing cover for rear lid hinge

### 1 - Cover for rear lid hinge

- ❑ To detach cover for rear lid hinge, start by prising out at bottom
- ❑ When installing, engage at top and then allow to engage at bottom.



## 4.4 Removing and installing gas strut - exploded view



### WARNING

*Risk of accident.*

- ◆ *Before removing a gas strut, support rear lid or secure it in position.*

# 1 - Rear lid

## 2 - Gas strut

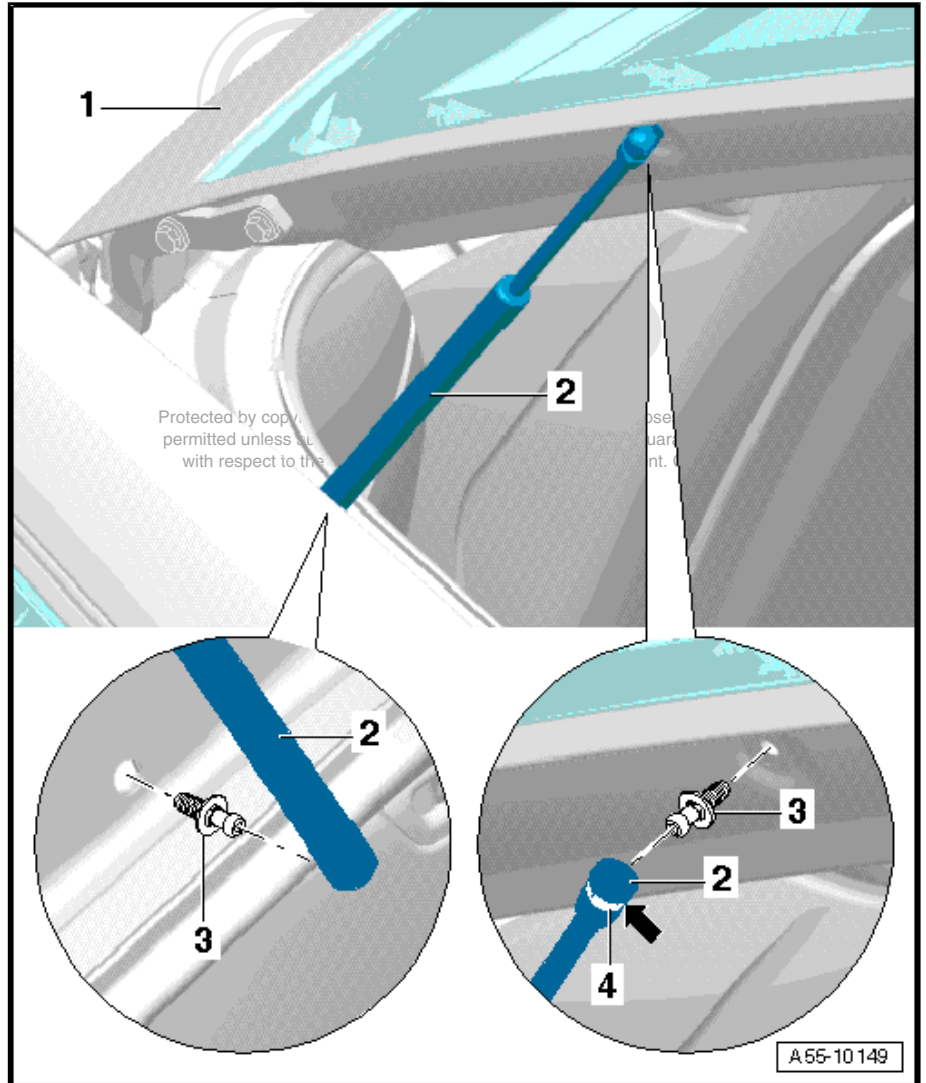
- ☐ Observe installation position and engage gas strut on body end.
- ☐ Note different versions.

## 3 - Ball stud

- ☐ 21 Nm

## 4 - Retaining clip

- ☐ To release, lift slightly with a small screwdriver.
- ☐ Note different versions.



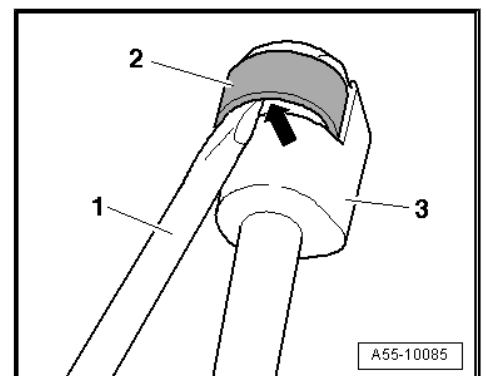
### Note

*Different gas struts are installed; the procedures for removal also differ.*

### Note

## Removing gas strut with steel spring

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



### Removing gas strut with plastic clip

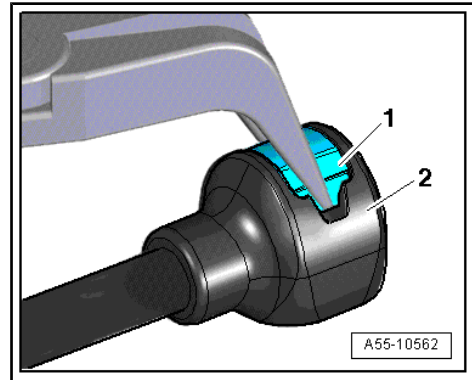
- Using commercially available long-nose pliers, compress plastic clip -1- as shown and pull gas strut -2- off ball stud.

### Installing



#### Note

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



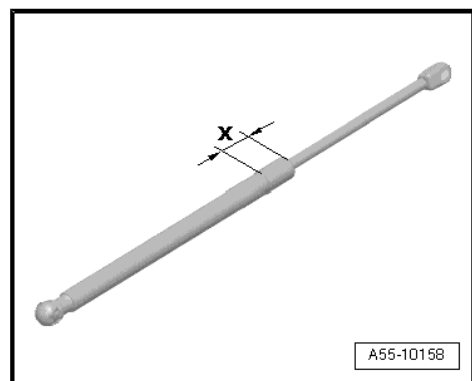
### Releasing gas from gas strut

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



#### WARNING

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



#### Note

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

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

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## 4.5 Removing and installing rear lid lock

### 1 - Rear lid

### 2 - Rear lid lock

- ☐ Rear lid trim removed ⇒ Rep. Gr. 70
- ☐ Before removing, detach cover for rear lid lock.
- ☐ Disengage manual release cable.
- ☐ Unscrew nuts and detach rear lid lock.

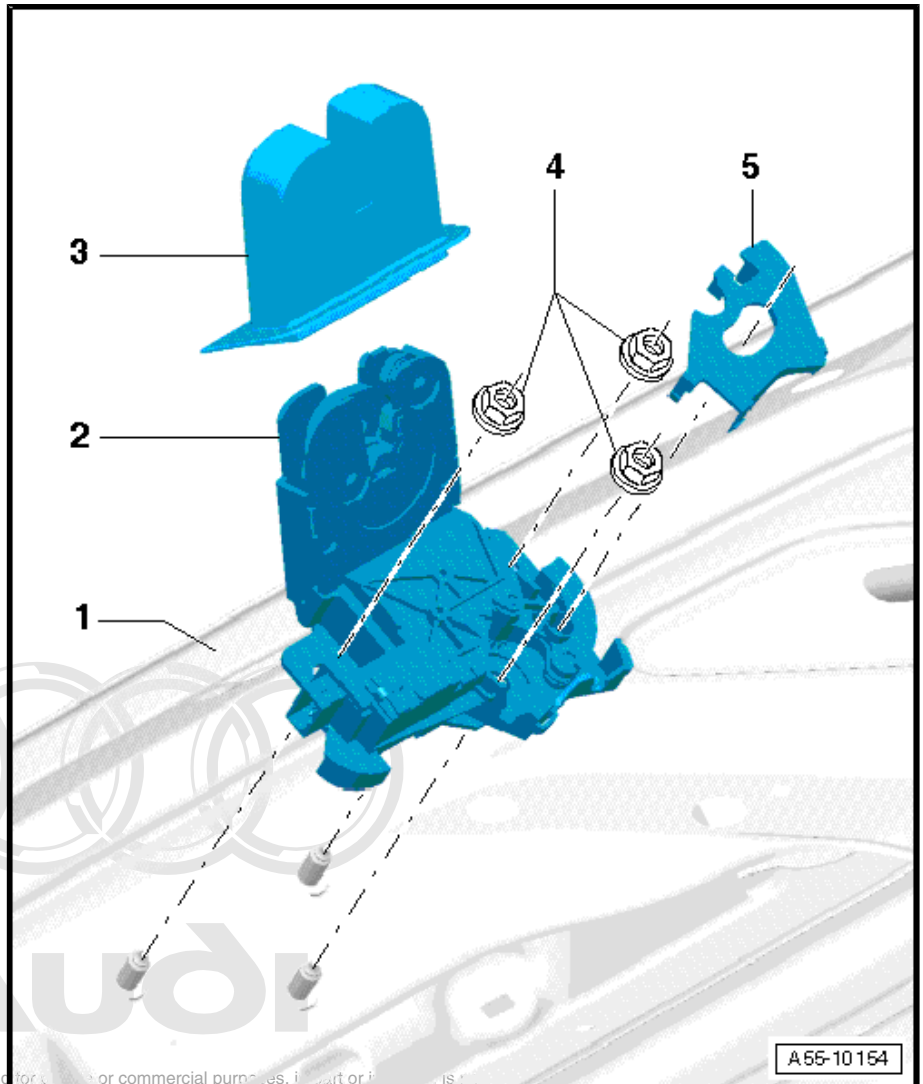
### 3 - Cover for rear lid lock

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

### 4 - Nut

- ☐ 21 Nm

### 5 - Anti-theft cover



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### Manual release for rear lid lock





**1 - Cable**

- ☐ Before removing, unclip anti-theft cover
- ☐ Cable secured with clips -arrows-.

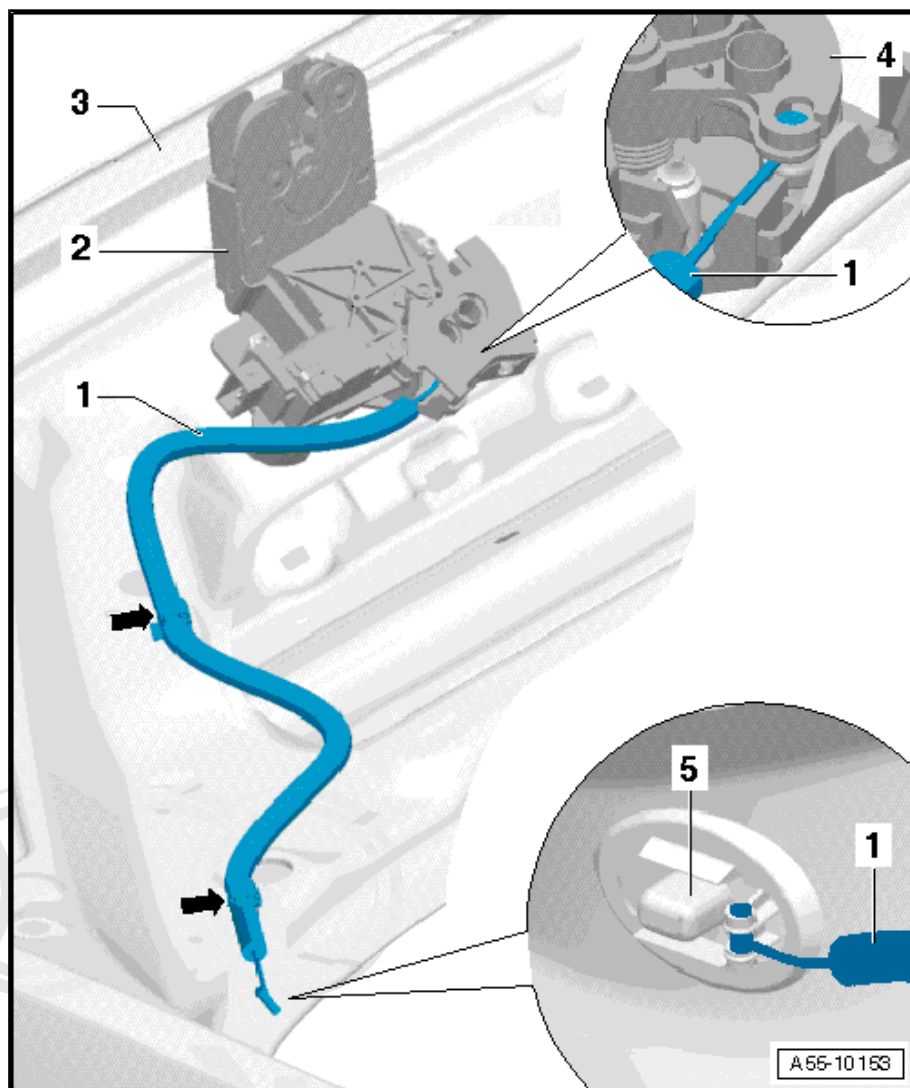
**2 - Rear lid lock**

**3 - Rear lid**

**4 - Operating lever for manual release mechanism**

- ☐ Clipped into rear lid trim.

**5 - Cap for rear lid trim**

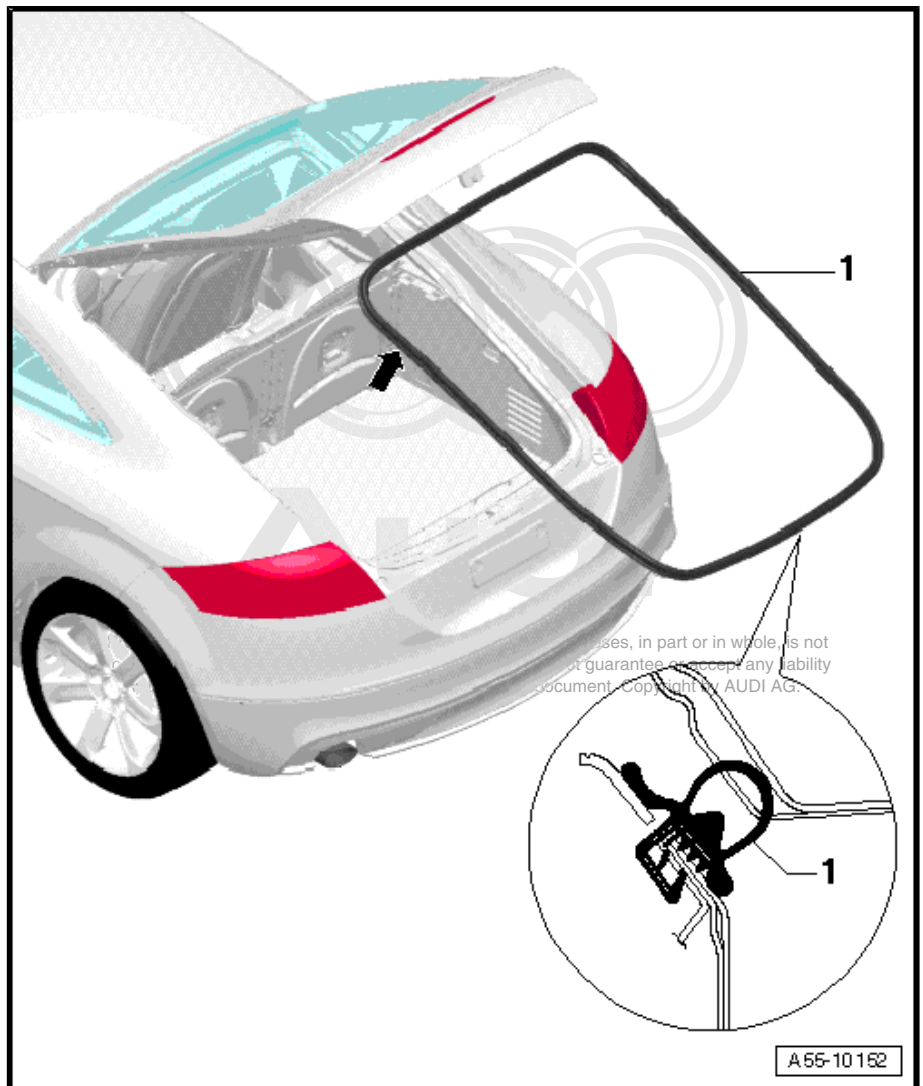


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## 4.6 Removing and installing seal for rear lid - exploded view

### 1 - Seal for rear lid

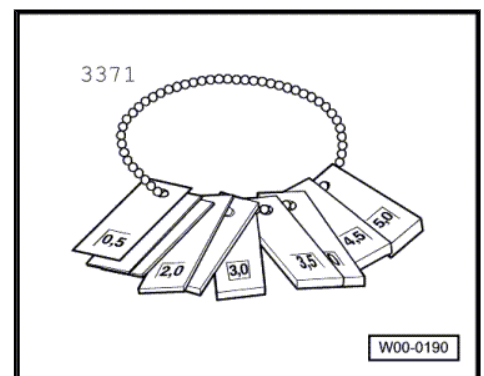
- ❑ To remove, pull seal off body flange.
- ❑ When fitting, align seal with joint -arrow- at left ball stud and press onto body flange all round.



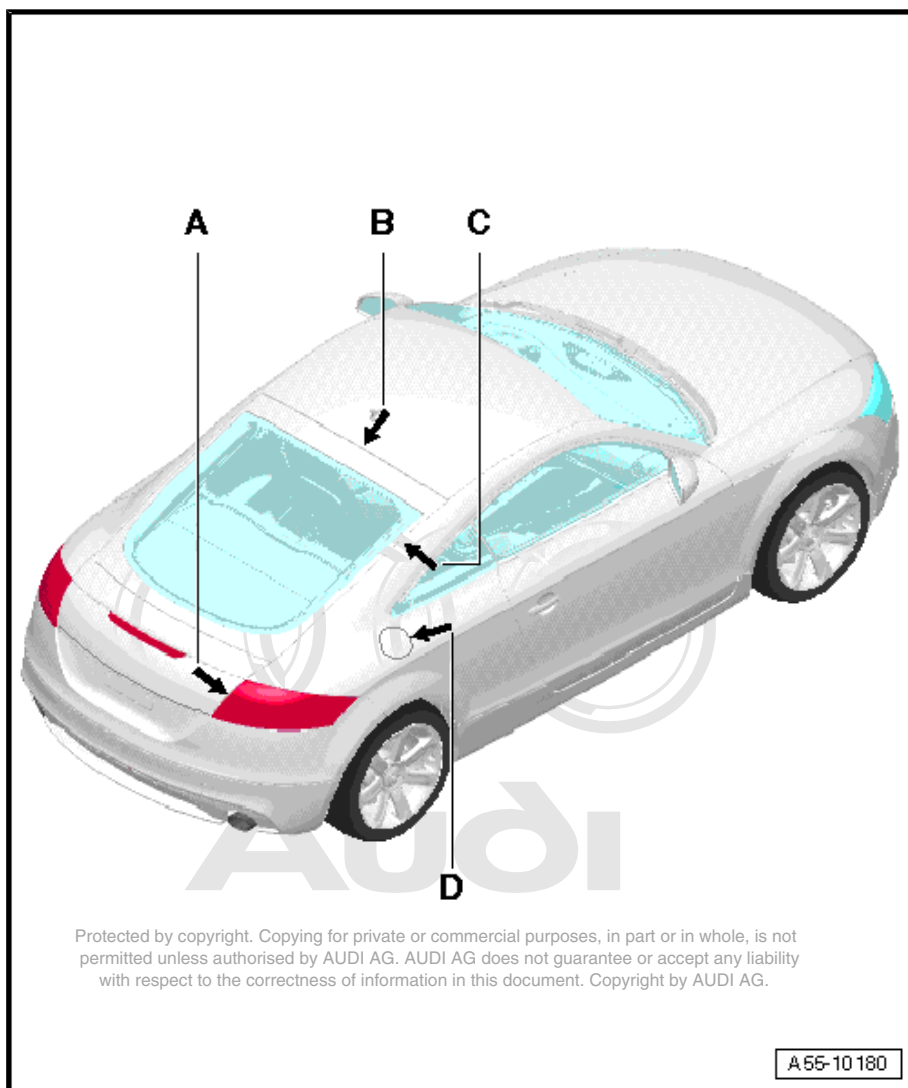
## 4.7 Adjusting rear lid

### Special tools and workshop equipment required

- ◆ Setting gauge -3371-



### Gap widths



- ◆ Dimension -A- = 4.0 mm ± 0.5 mm
- ◆ Dimension -B- = 4.5 mm ± 0.5 mm
- ◆ Dimension -C- = 3.5 mm ± 0.5 mm
- ◆ Dimension -D- = 2 mm all round

## 5 Rear lid - Roadster

### 5.1 Removing and installing rear lid - exploded view

#### 1 - Rear lid

- When removing or installing the rear lid, a 2nd mechanic is required to support and hold the rear lid.

##### ❑ Removing:

- Remove rear lid lining ⇒ Rep. Gr. 70 .
- Disconnect wiring and pull out of rear lid.
- Remove gas struts (left and right) ⇒ [page 58](#) .
- Unscrew bolts connecting rear lid hinges to rear lid ⇒ [page 58](#) .
- Detach rear lid.

##### ❑ Install in reverse sequence.

##### ❑ Adjusting:

- Gas struts must be fitted before adjusting new rear lid.

Height and longitudinal adjustments at top of rear lid must be made via rear lid hinge.

- Height adjustments at bottom of rear lid must be made via rear lid lock.

- Align rear lid centrally according to specified gap widths ⇒ [page 57](#) .

- Adjust bump stops ⇒ [Item 2 \(page 55\)](#) .

##### ❑ Removing and installing seal for rear lid ⇒ [page 68](#) .

#### 2 - Bump stop

- With the rear lid correctly adjusted and closed, the adjusting buffers must rest lightly against the body.
- Adjusting ⇒ [page 56](#) .

#### 3 - Pop rivet

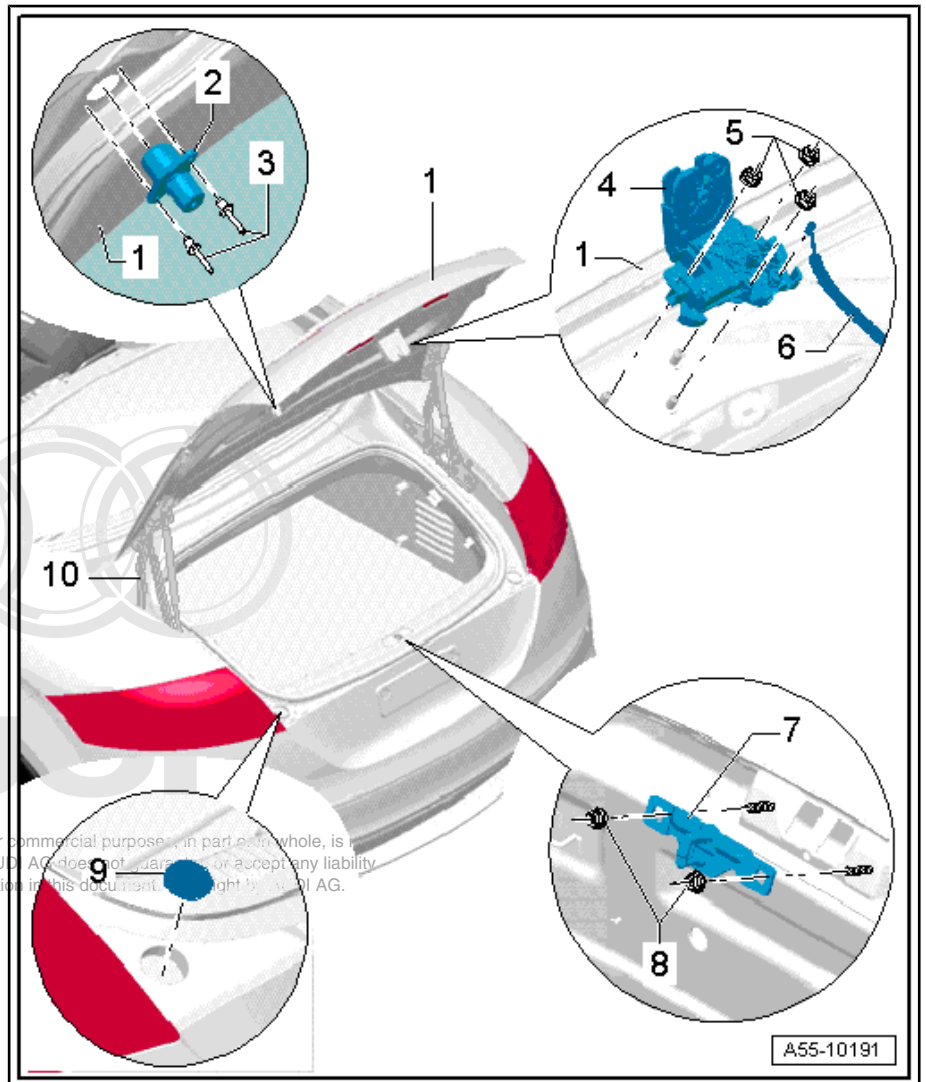
- To remove, drill out rivet heads and knock out rivet stems.

#### 4 - Rear lid lock

- To remove, unscrew bolts with washers and disengage cable.

#### 5 - Nuts

- 21 Nm



**6 - Cable for manual release****7 - Striker plate**

- ☐ Adjusting:
  - Hand-tighten bolts with washers [⇒ Item 5 \(page 55\)](#) (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 5 \(page 55\)](#) .

**8 - Nuts**

- ☐ 21 Nm

**9 - Protective film**

- ☐ Self-adhesive
- ☐ Peel off protective film before mounting.

**10 - Rear lid hinge**

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

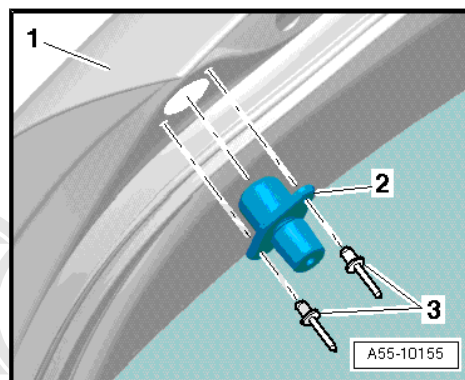
**Adjusting bump stops**

- Close rear lid.

**Note**

*With the rear lid correctly adjusted and closed, the adjusting buffers must rest lightly against the body.*

- Replacement buffers are pre-adjusted and should only be screwed in or out as and when required.
- Check gap widths [⇒ page 57](#) .

**Note**

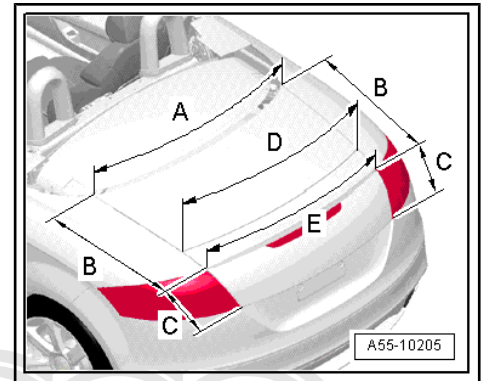
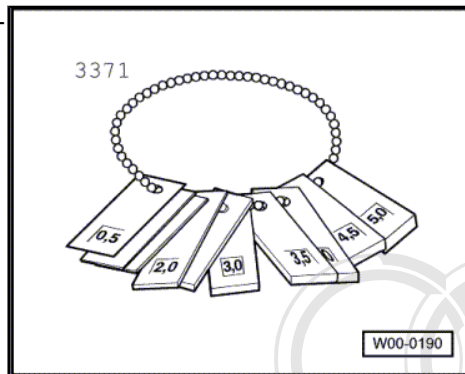
*To remove bump stop, drill rivet head off pop rivet -1-, knock out rivet stem and detach bump stop.*

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## 5.2 Adjusting rear lid

Special tools and workshop equipment required

- ◆ Setting gauge -3371-



### Gap widths

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

- In area -A- = 4.5 mm  $\pm$  0.5 mm
- In area -B- = 3.5 mm  $\pm$  0.5 mm
- In area -C- = 4.0 mm  $\pm$  0.5 mm
- In area -D- = 2.0 mm  $\pm$  0.5 mm
- In area -E- = 2.0 mm  $\pm$  0.5 mm

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### 5.3 Removing and installing rear lid hinge - exploded view

#### 1 - Bolt

- 21 Nm

#### 2 - Bolt

- 21 Nm

#### 3 - Rear lid hinge

- To remove rear lid, only unscrew nuts -6-.
- To remove, remove cover and unscrew bolts -1- and -2-.

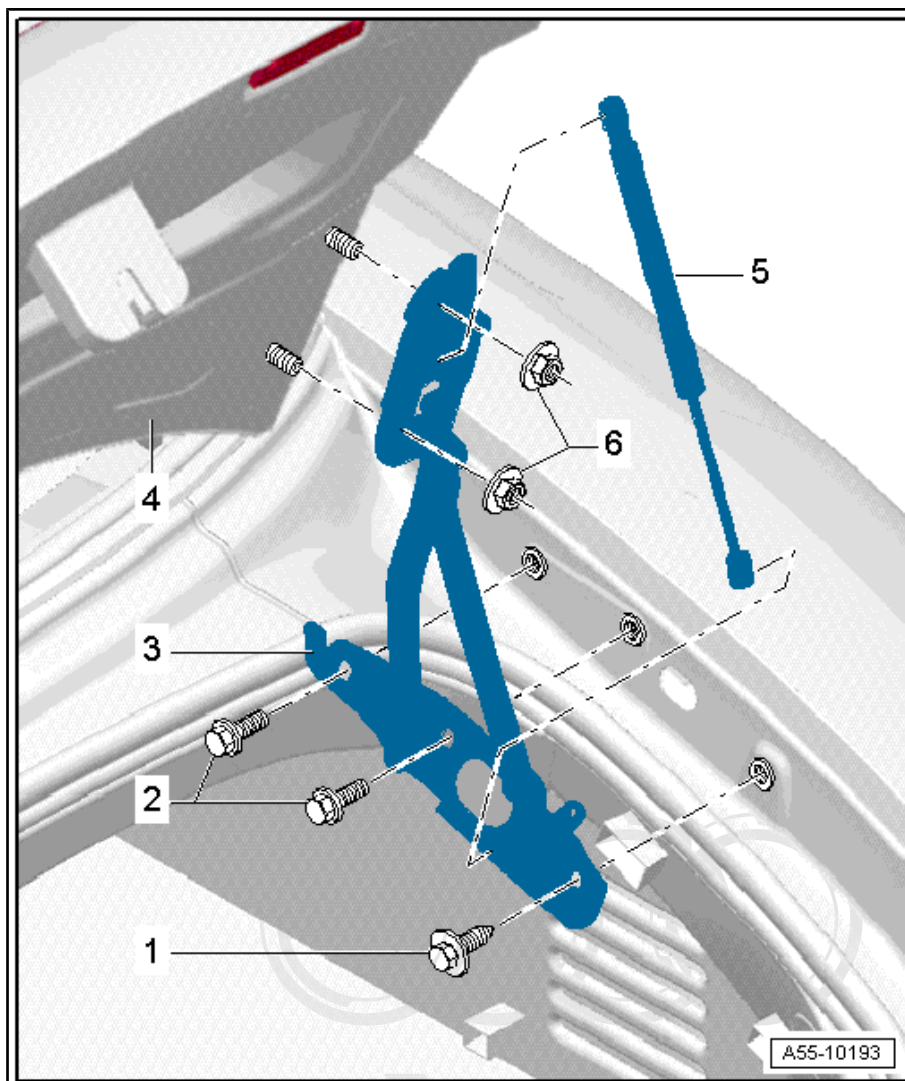
#### 4 - Rear lid

#### 5 - Gas strut

- Note different versions.

#### 6 - Nut

- 21 Nm



### 5.4 Removing and installing gas strut - exploded view



#### WARNING

*Risk of accident.*

- ◆ *Before removing a gas strut, support rear lid or secure it in position.*

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**1 - Rear lid**

**2 - Gas strut**

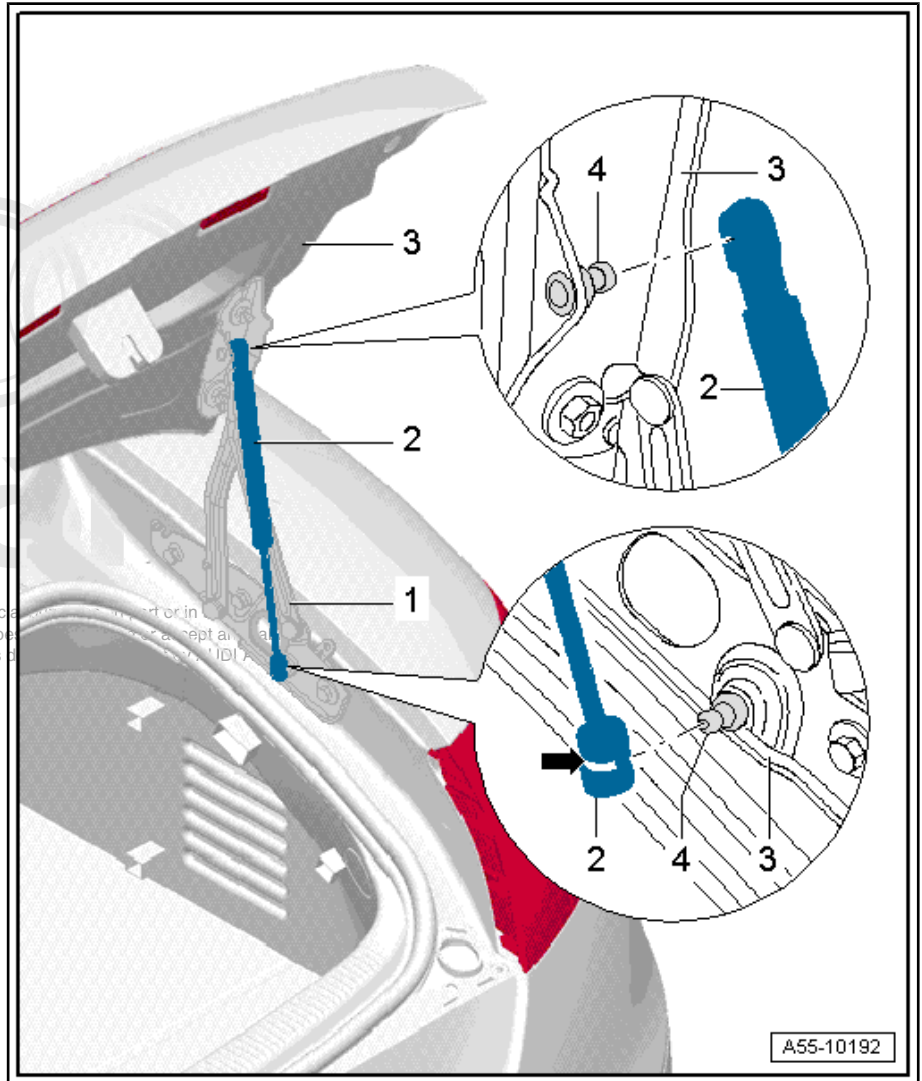
- ☐ Observe correct installation position
- ☐ Note different versions

**3 - Ball stud**

- ☐ 21 Nm

**4 - Retaining clip**

- ☐ Note different versions.

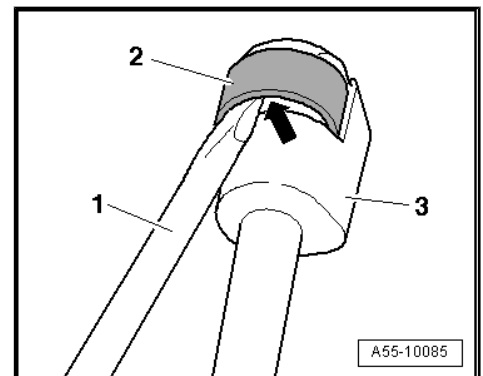


**Note**

*Different gas struts are installed; the procedures for removal also differ.*

**Removing gas strut with steel spring**

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



## Removing gas strut with plastic clip

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

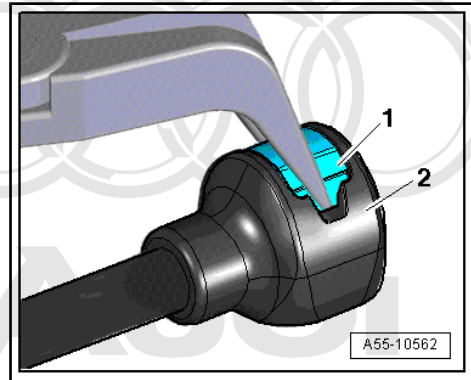
## Installing



### Note

- ♦ *Following complete removal, pay attention to correct position of gas strut when installing.*
- ♦ *Gas strut cylinder must be engaged at rear lid end.*

- Start by pressing on gas strut at bottom and then onto ball studs at top.



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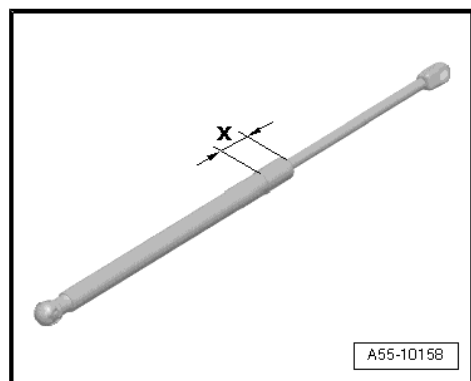
## Releasing gas from gas strut

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



### WARNING

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



### Note

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

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

## 5.5 Removing and installing rear lid lock

### 1 - Rear lid

### 2 - Rear lid lock

- ☐ Rear lid trim removed ⇒ Rep. Gr. 70
- ☐ Before removing, detach cover for rear lid lock.
- ☐ Disengage manual release cable.
- ☐ Unscrew nuts and detach rear lid lock.

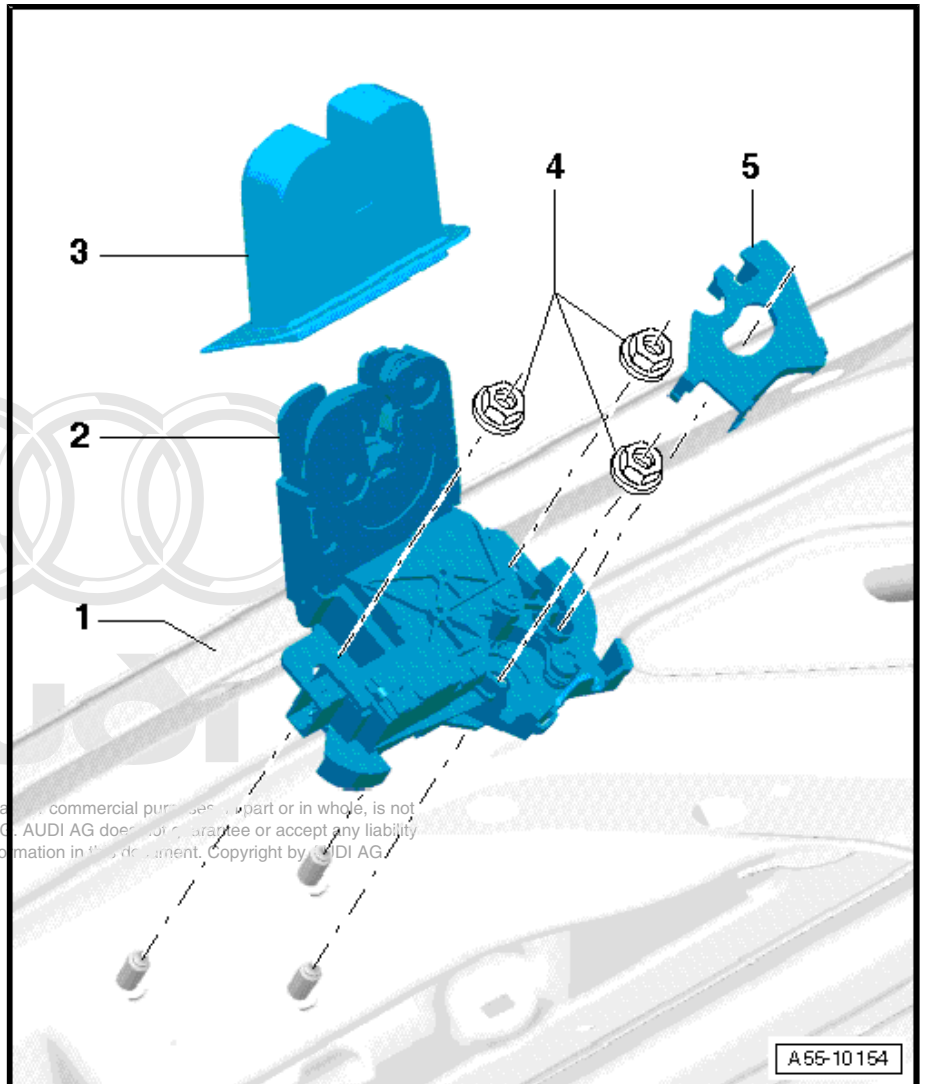
### 3 - Cover for rear lid lock

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

### 4 - Nut

- ☐ 21 Nm

### 5 - Anti-theft cover



## 5.6 Cable for rear lid lock - exploded view

### Manual release for rear lid lock

#### 1 - Manual release handle

#### 2 - Grommet

#### 3 - Bowden cable

- ☐ When installing, engage rear lid end of cable with coupling unit -8- in rear lid lock ⇒ [page 62](#) .
- ☐ Clip coupling unit into inner part of rear lid ⇒ [page 63](#) .
- ☐ With rear lid open, run handle end of Bowden cable through hinge into luggage compartment and engage grommet -6- onto hinge ⇒ [page 64](#) .
- ☐ Clip cover -5- onto hinge.
- ☐ Take hold of Bowden cable in luggage compartment and run cable through bottom hole in rear roof frame -10-.
- ☐ Engage Bowden cable in end plate -11- in centre of convertible roof compartment ⇒ [page 65](#) .
- ☐ Engage Bowden cable in handle.

#### 4 - Grommet for rear lid

#### 5 - Cover

- ☐ Push onto hinge

#### 6 - Grommet for hinge

- ☐ Clipped into hinge

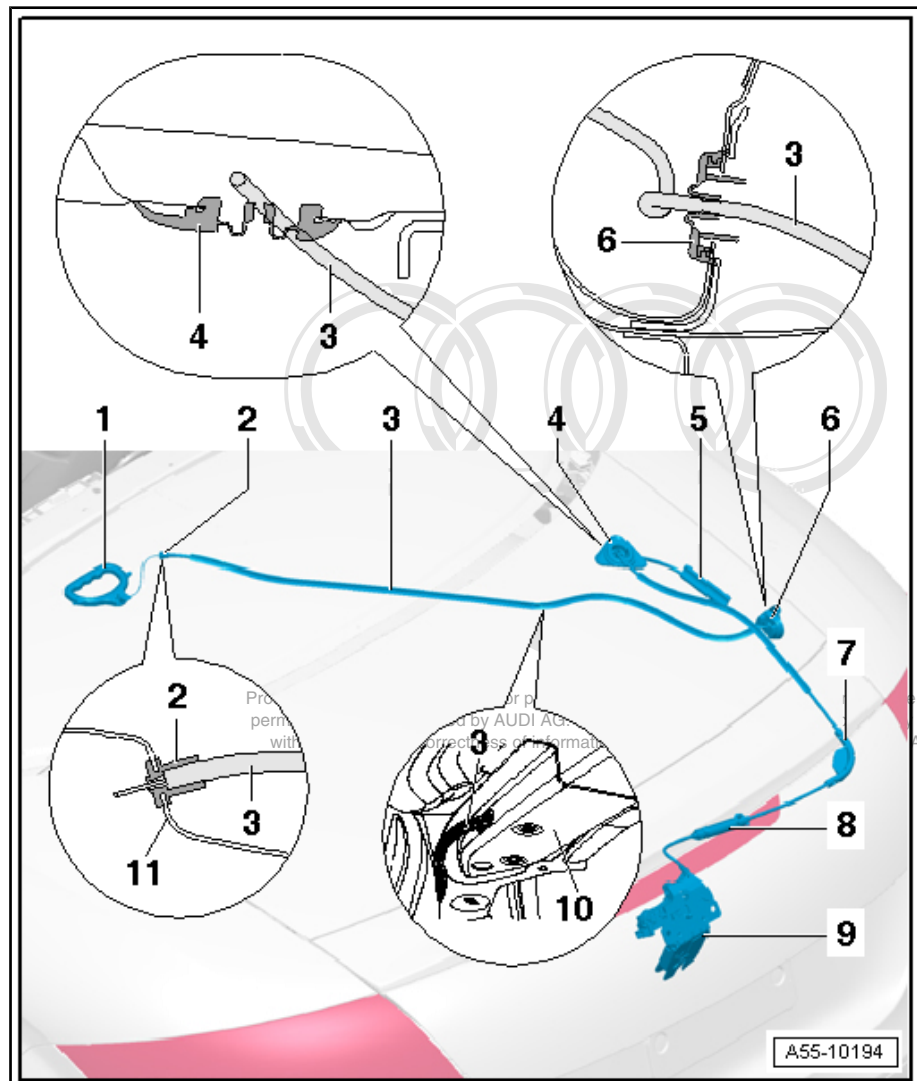
#### 7 - Guide piece

#### 8 - Coupling unit

#### 9 - Rear lid lock

#### 10 - Rear roof frame

#### 11 - End plate, convertible roof compartment



### Attaching Bowden cable to rear lid lock

**1 - Rear lid lock**

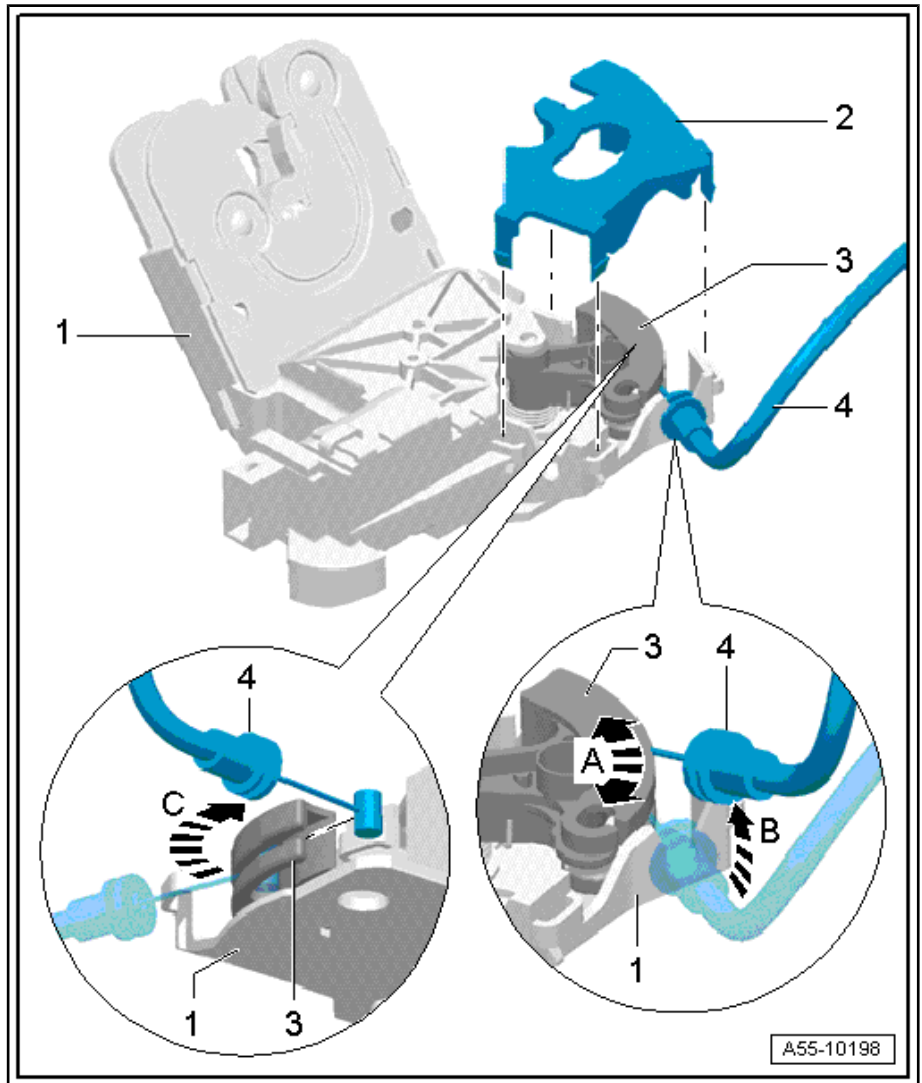
**2 - Cover**

- ❑ After attaching Bowden cable, fit cover on lock.

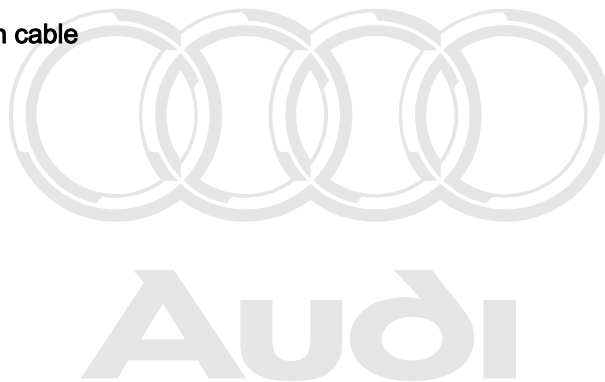
**3 - Actuator for rear lid lock**

**4 - Bowden cable**

- ❑ Engage in actuator as shown and secure Bowden cable to rear lid lock.



**Coupling unit for Bowden cable**



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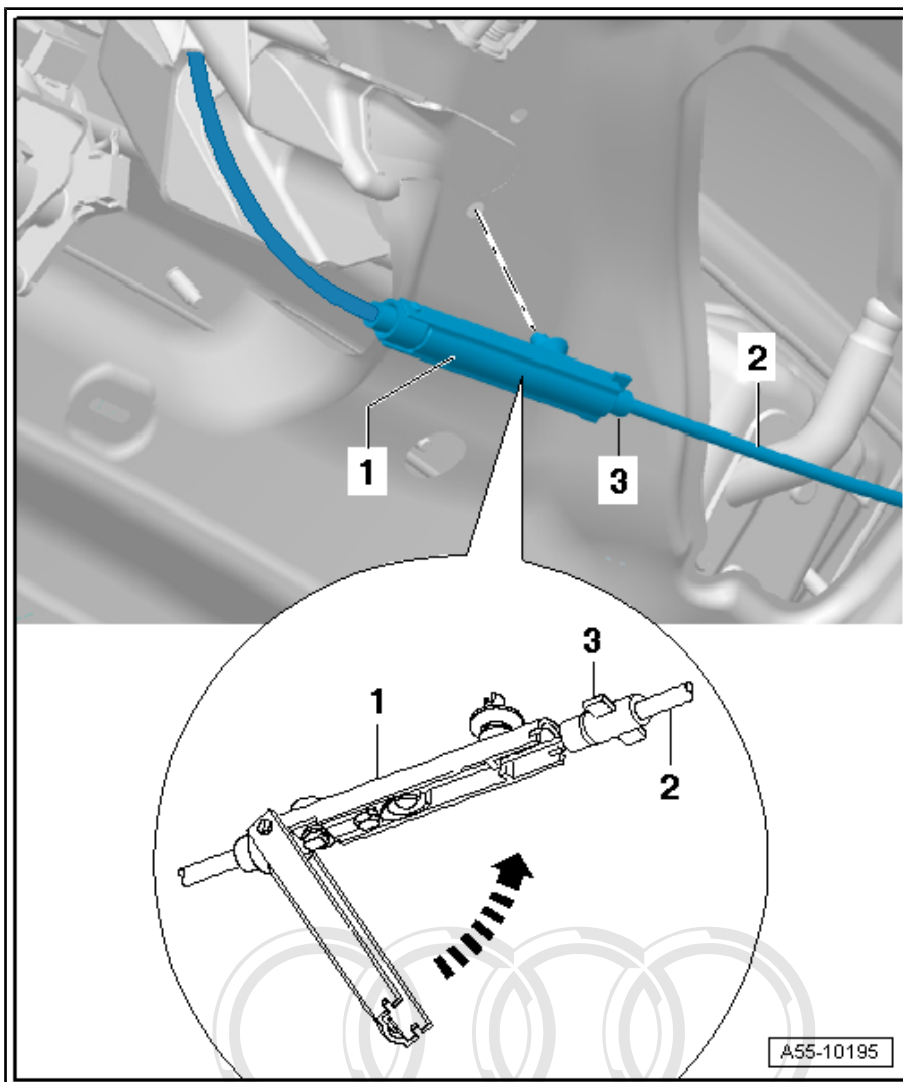
### 1 - Coupling unit for Bowden cable

- ☐ Coupling unit is clipped into inside of rear lid.
- ☐ Pull out locking element from the side and fold open coupling unit.
- ☐ Push locking element back into coupling unit when installing.

### 2 - Cable

- ☐ Fit ball on cable into coupling unit, close flap and push in locking element.

### 3 - Locking element



### Routing of Bowden cable at hinge

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**1 - Cover**

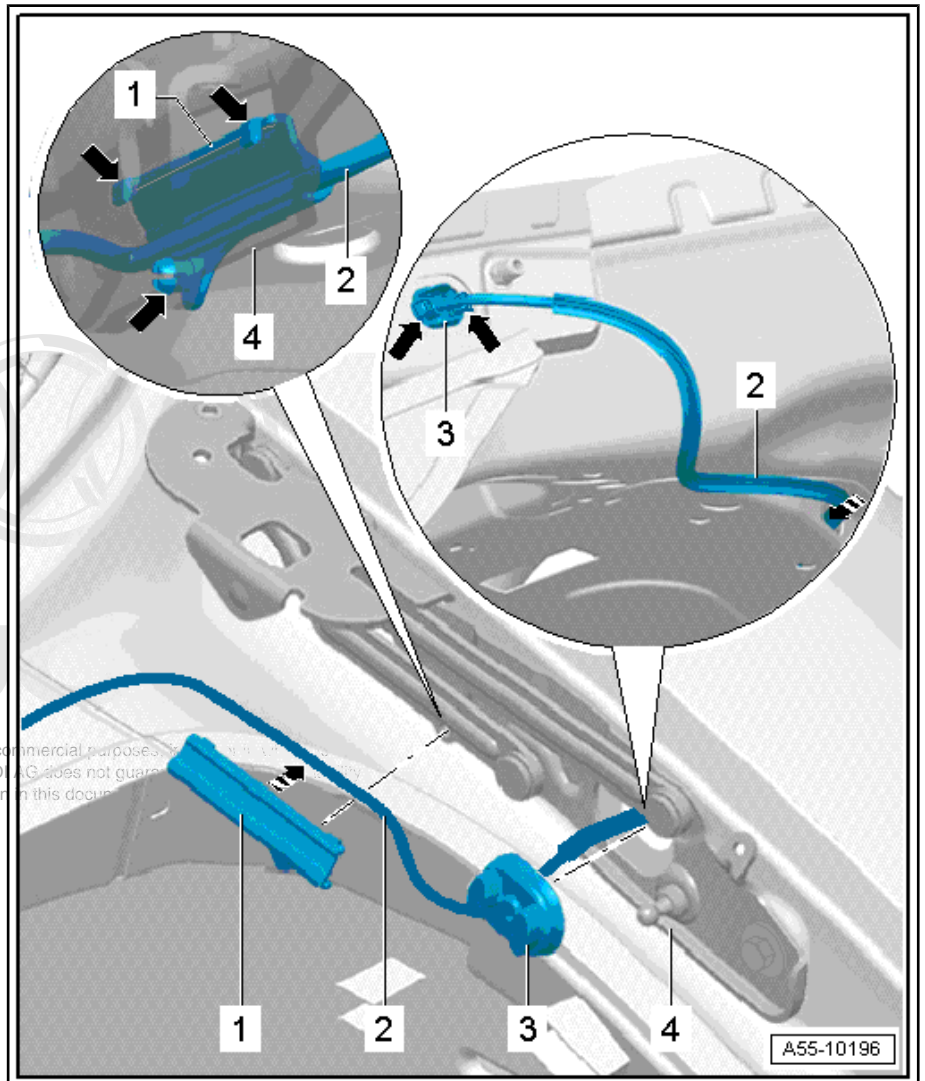
- ❑ Press cover onto side of hinge.

**2 - Bowden cable**

**3 - Grommet for hinge**

- ❑ Press grommet into hinge so it snaps into place.

**4 - Hinge for rear lid**



**Attaching Bowden cable to handle**

### 1 - Bowden cable

- ☐ Engage ball -1- on Bowden cable in handle -2-.



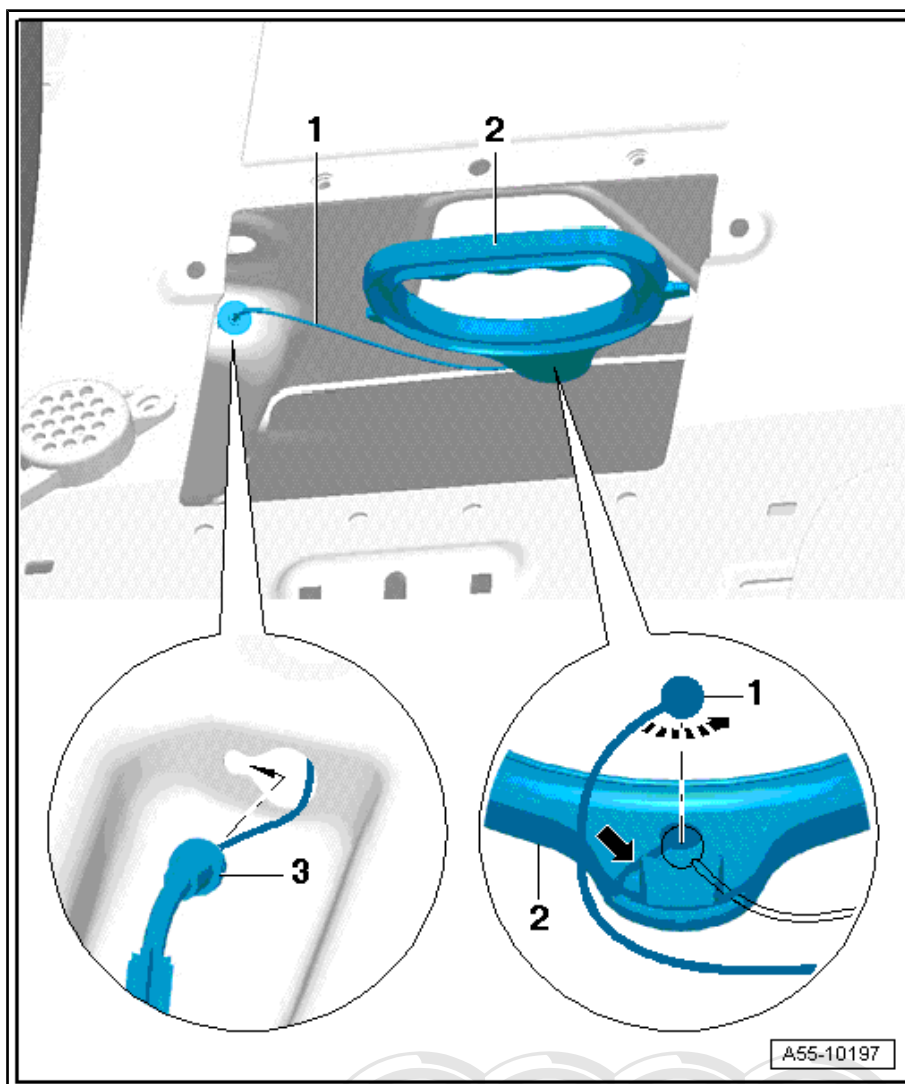
#### Caution

*To ensure correct function, the cable must run behind the retaining lug as shown.*

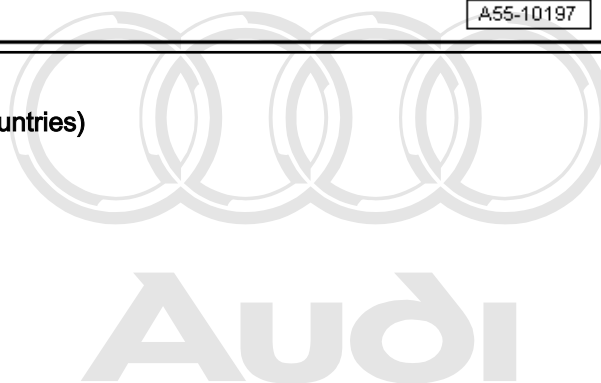
### 2 - Manual release handle

### 3 - Grommet

- ☐ Push into end plate and secure by moving toward one side.



Manual release mechanism (different version for some countries)



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**1 - Retainer for Bowden cable**

- ☐ Riveted to rear lid

**2 - Bowden cable**

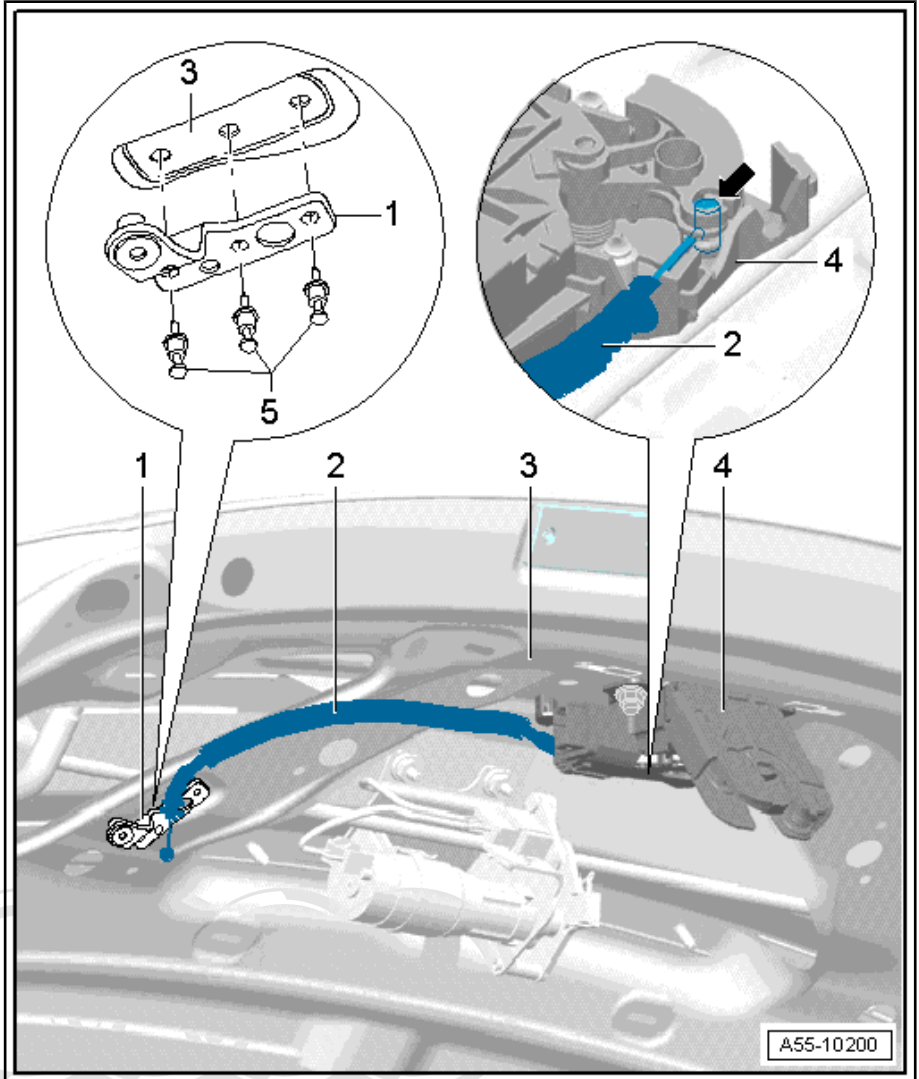
**3 - Rear lid**

**4 - Rear lid lock**

- ☐ Engage Bowden cable in rear lid lock as shown in detail illustration -arrow-.
- ☐ Attaching Bowden cable to operating lever ⇒ Rep. Gr. 70 .

**5 - Rivet**

- ☐ 3x



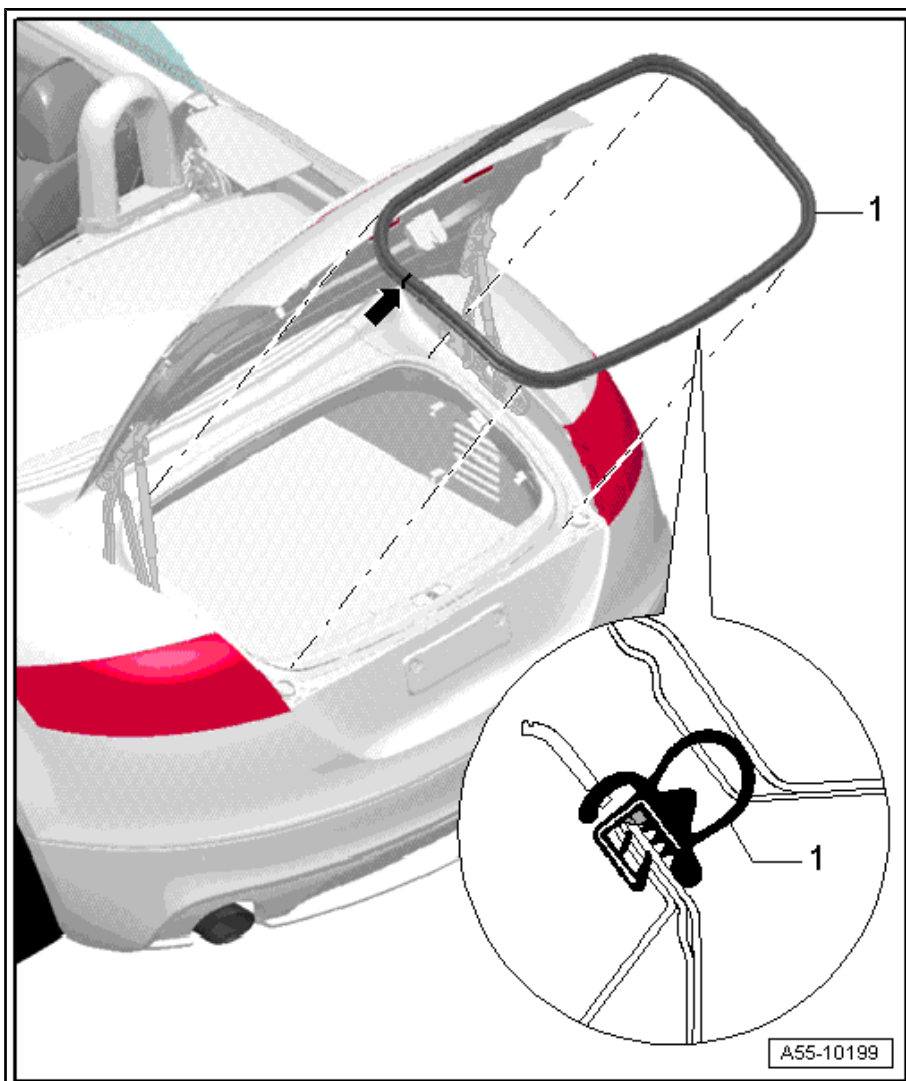
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## 5.7 Removing and installing seal for rear lid - exploded view

### 1 - Seal for rear lid

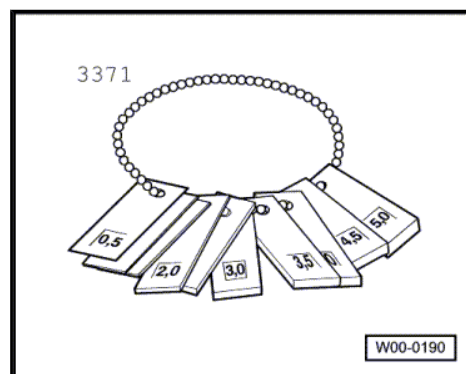
- ❑ To remove, pull seal off body flange.
- ❑ When fitting, align seal with joint -arrow- at left ball stud and press onto body flange all round.



## 5.8 Adjusting rear lid

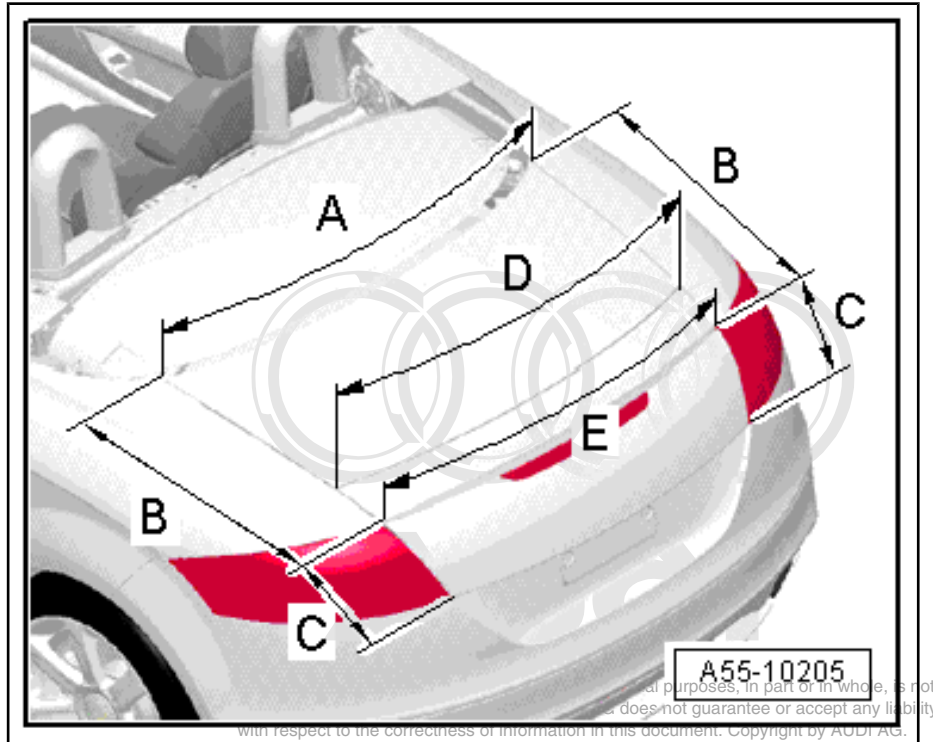
### Special tools and workshop equipment required

- ◆ Setting gauge -3371-



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### Gap widths

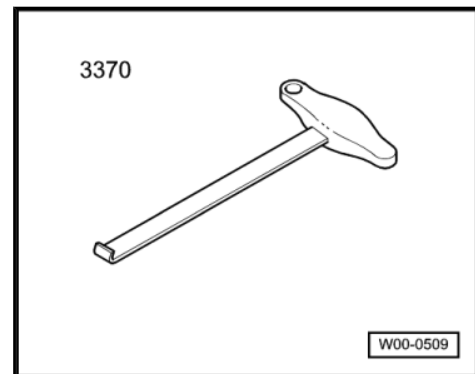


- ◆ Dimension -A- = 4.0 mm  $\pm$  0.5 mm
- ◆ Dimension -B- = 4.5 mm  $\pm$  0.5 mm
- ◆ Dimension -C- = 3.5 mm  $\pm$  0.5 mm
- ◆ Dimension -D- = 2 mm all round

## 6 Tank flap

### Special tools and workshop equipment required

- ◆ Front-end hook -3370-



### 6.1 Removing and installing tank flap - exploded view

#### 1 - Cable for tank flap

#### 2 - Bolts

- 4 Nm

#### 3 - Retaining hook

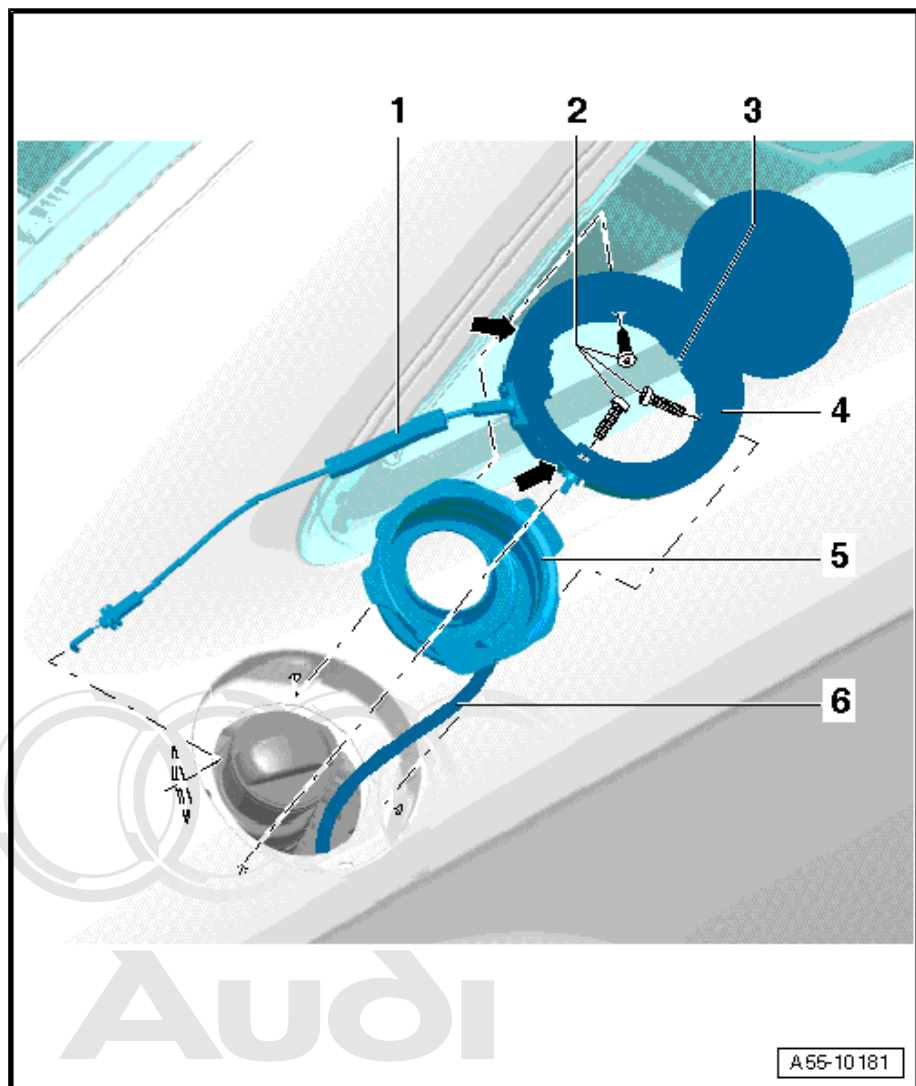
- Retaining hook must be flush with bottom part of tank flap.

#### 4 - Tank flap

- When removing, unbolt cable -1- at tank flap.
- When installing a new tank flap, proceed as follows:
  - Guide cable through opening in tank flap cup.
  - Insert tank flap at an angle until retaining tabs engage at flange in side panel.
  - Press down the tank flap against the pre-tension of the tank flap cup until the adjustable retaining hook engages visibly.
  - Secure tank flap with bolts (3x).

#### 5 - Tank flap cup

#### 6 - Drain hose

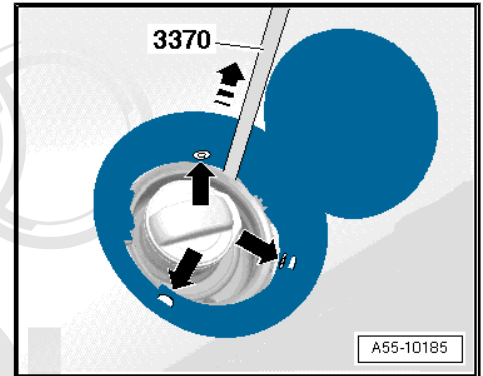


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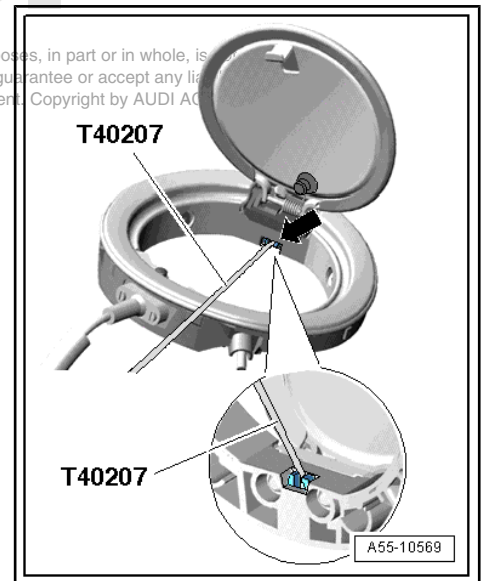
## Removing

- Remove the three bolts -arrows-.

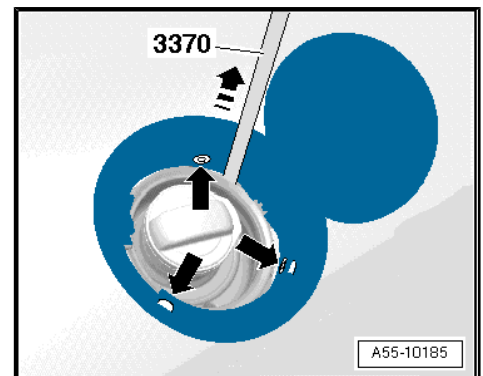


- Release catch -arrow- with hook -T40207- (or make an improvised hook with e.g. a piece of welding wire)

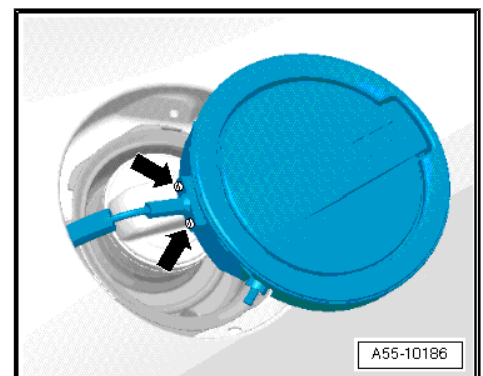
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- Use front-end hook -3370- to pull tank flap vertically upwards out of body opening.



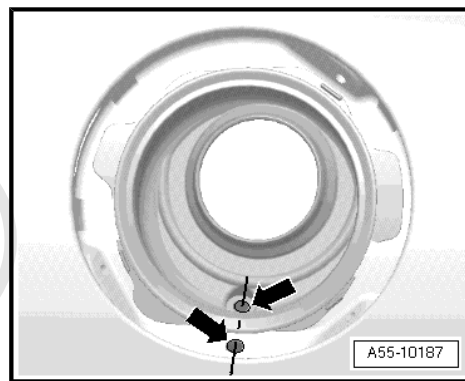
- Remove bolts -arrows- at cable.



## Installing

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

- The tank flap cup must be installed as follows to be able to lay the overflow hose without kinking:
- As shown in the illustration, the edge of the drain hole in the tank flap cup must coincide with the edge of the hole in the body -arrows-.



## Installation position of tank flap

### 1 - Lid for tank flap

- ☐ Set an even distance  
-A- from the side panel.

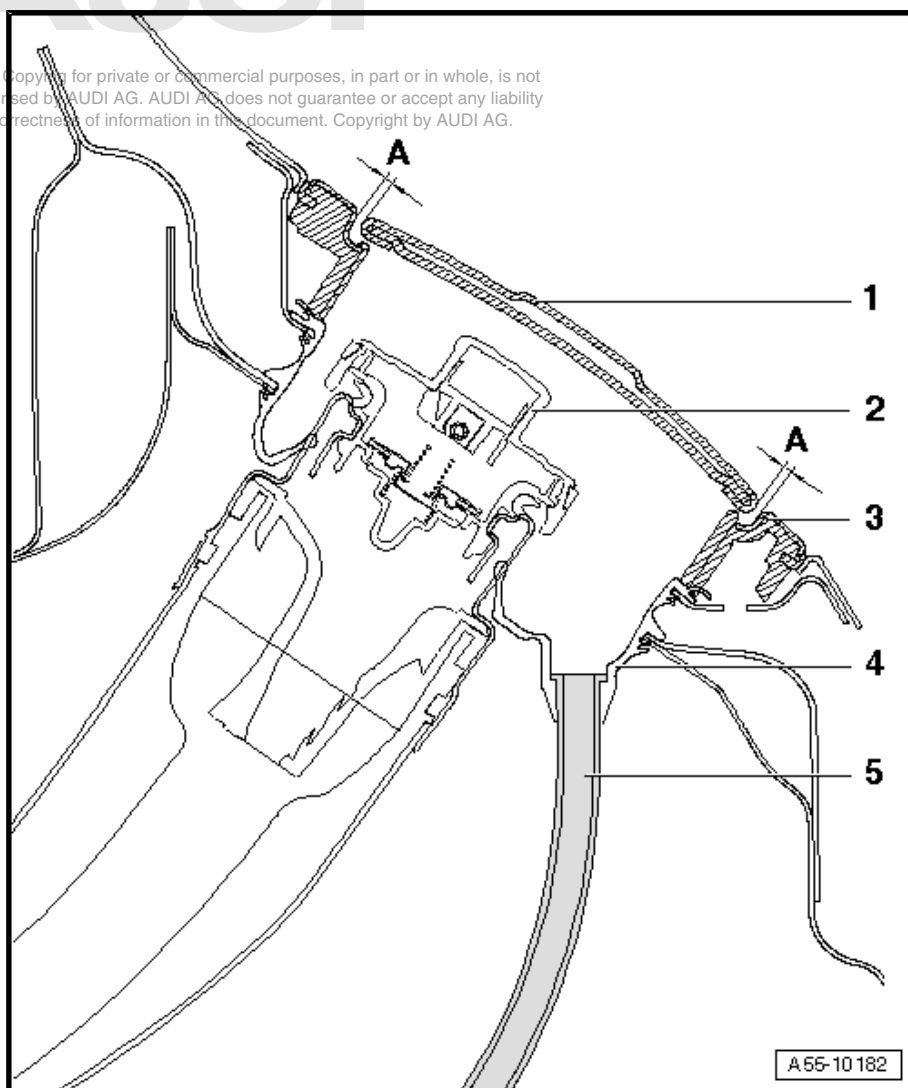
### 2 - Tank cap

### 3 - Tank flap

### 4 - Tank flap cup

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

### 5 - Drain hose



## Drain hose for tank flap

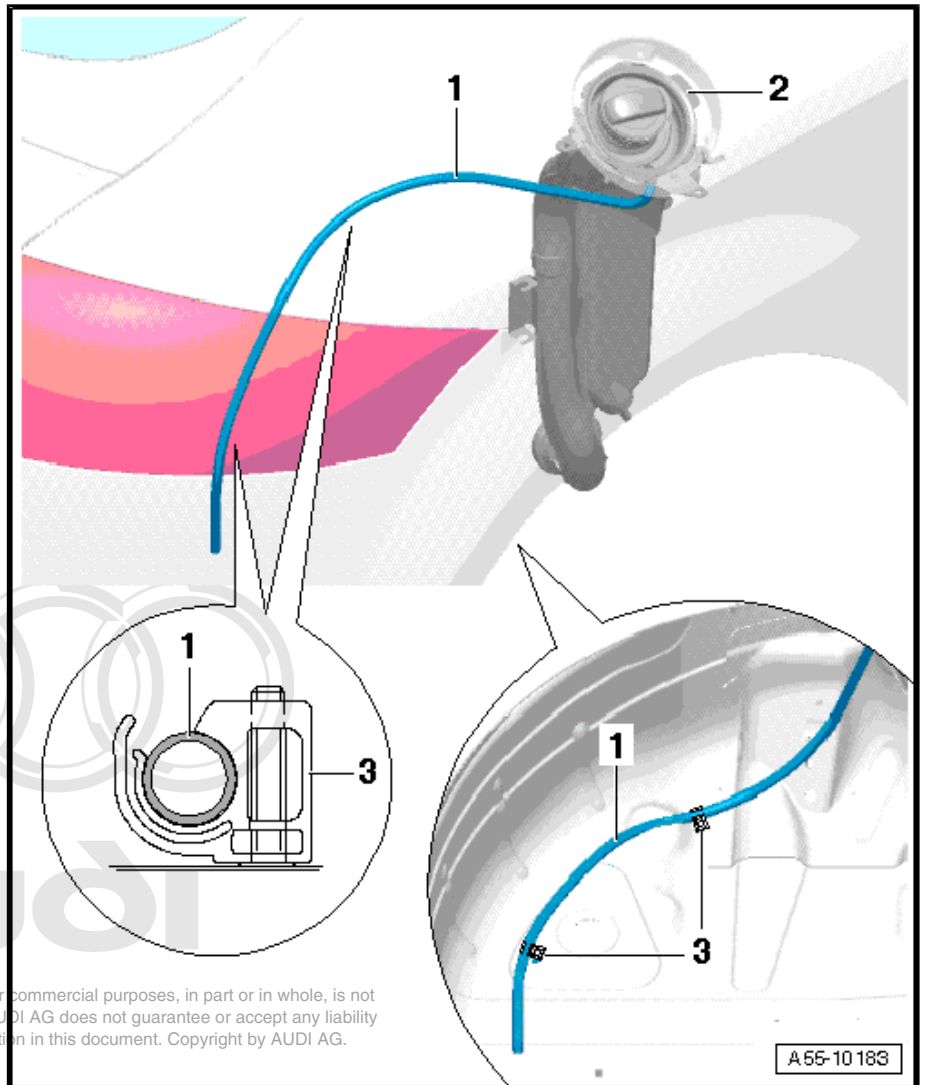
### 1 - Drain hose

- Press drain hose into clips -3- beneath wheel housing liner and fit onto body pins (as shown).

### 2 - Tank flap

### 3 - Clip

- Attached to body pins as shown.

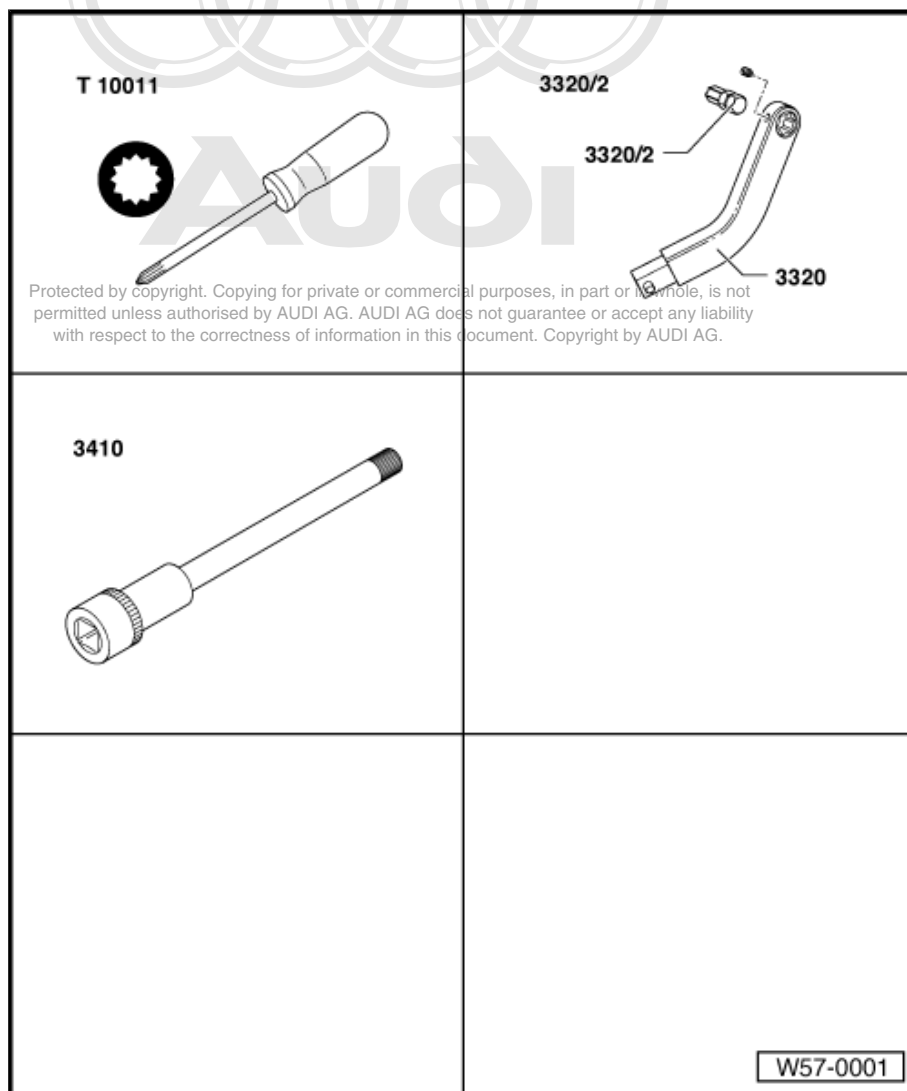


## 57 – Front doors, door components, central locking

### 1 Front door

#### Special tools and workshop equipment required

- ◆ Multi-point socket screwdriver -T10011-
- ◆ Bit insert -3320/2-
- ◆ Socket -3410-



## 1.1 Removing and installing door



### Note

- ◆ For various assembly operations, the door can be lifted out of the door hinges completely after unplugging the electrical connectors at the A-pillar (bottom).
- ◆ No adjustment work is required after fitting.

### 1 - Door panel

- Pull bellows out of A-pillar (bottom).
- Unplug electrical connectors at A-pillar (bottom).
- Loosen bolt -4- at door hinge (top).
- Unscrew lower bolt with washer -9- at door hinge (bottom).
- Pull trim cap off hinge pin.



### Caution

Protect the painted surfaces on the door and wing panel from damage.

- Carefully lift the door up and off the hinges.

### 2 - Upper section of door hinge (top)

- ☐ Not available as a separate replacement part
- ☐ Remains bolted to the door.

### 3 - Lower section of door hinge (top)

- ☐ Not available as a separate replacement part
- ☐ Remains bolted to A-pillar.

### 4 - Locking nut

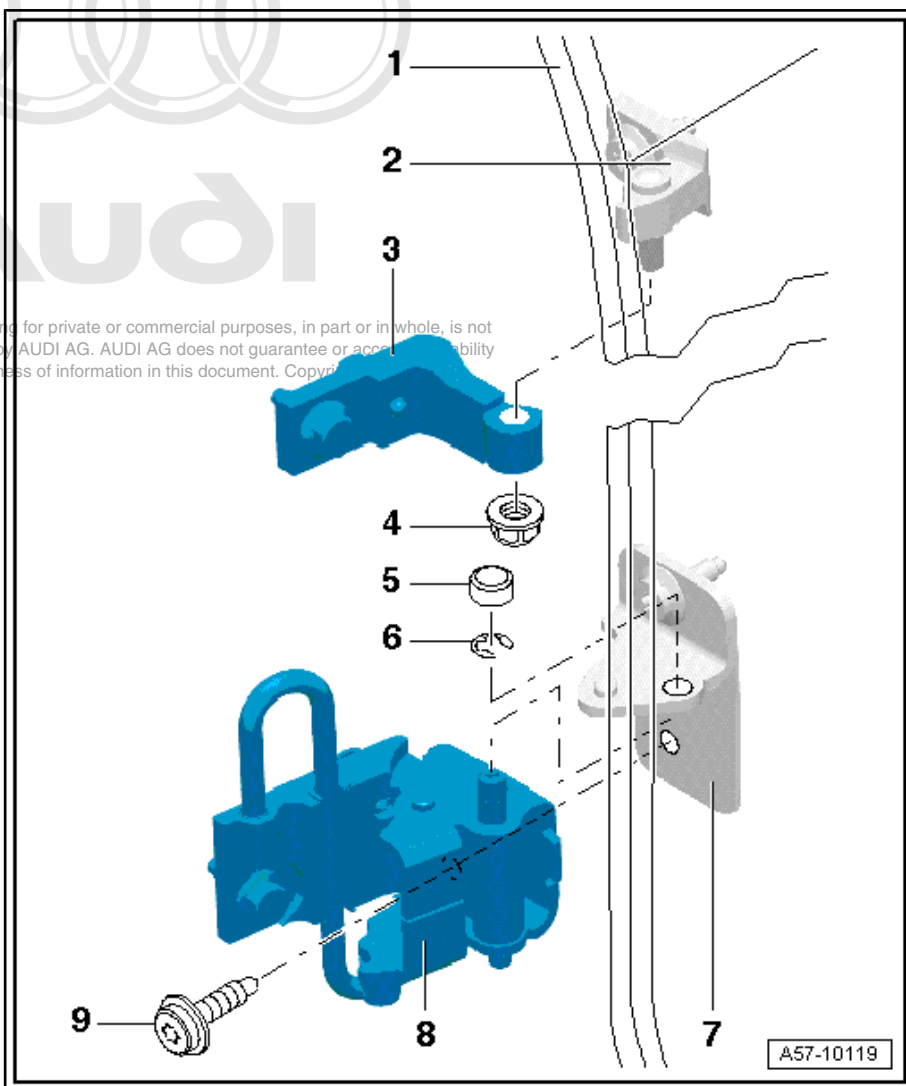
- ☐ 25 Nm

### 5 - Cap

- ☐ Attach to locking nut

### 6 - Retaining clip

- ☐ Only fitted on replacement part.
- ☐ Pull off after fitting a new hinge.



## 7 - Upper section of door hinge (bottom)

- If necessary, slacken any tension between upper and lower section of door hinge (bottom) using a screwdriver.
- ☐ Not available as a separate replacement part
- ☐ Remains bolted to the door.

## 8 - Lower section of door hinge (bottom)

- ☐ Not available as a separate replacement part
- ☐ Remains bolted to A-pillar.

## 9 - Bolt with washer

- ☐ 32 Nm

## 1.2 Removing and installing window regulator - exploded view

### 1 - Door window

- ☐ Removing and installing  
⇒ [page 201](#)

### 2 - Window regulator

- ☐ Door trim removed ⇒  
Rep. Gr. 70
- Window glass removed
- Cover for inner door panel removed  
⇒ [page 79](#)
- Disconnect/unclip electrical wiring.
- Window regulator motor removed
- Remove nuts -4- and -7-.
- Lift window regulator to side through opening and out of door.

### 3 - Door

### 4 - Nut

- ☐ 8 Nm

### 5 - Bolt

- ☐ 3.5 Nm

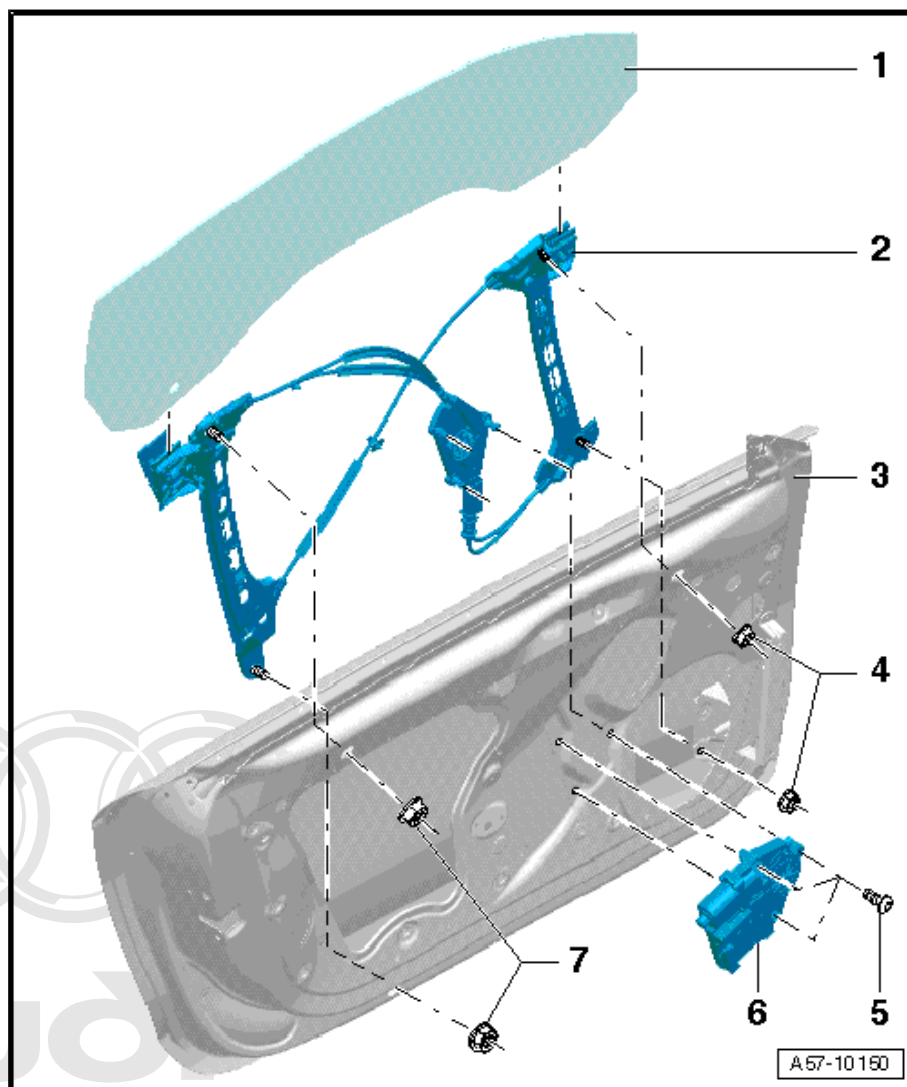
### 6 - Window regulator motor



Note

### 7 - Nut

- ☐ 8 Nm
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## Lateral adjustment of window regulator



**1 - Window regulator**

**2 - Door**

**3 - Nut**

□ 8 Nm

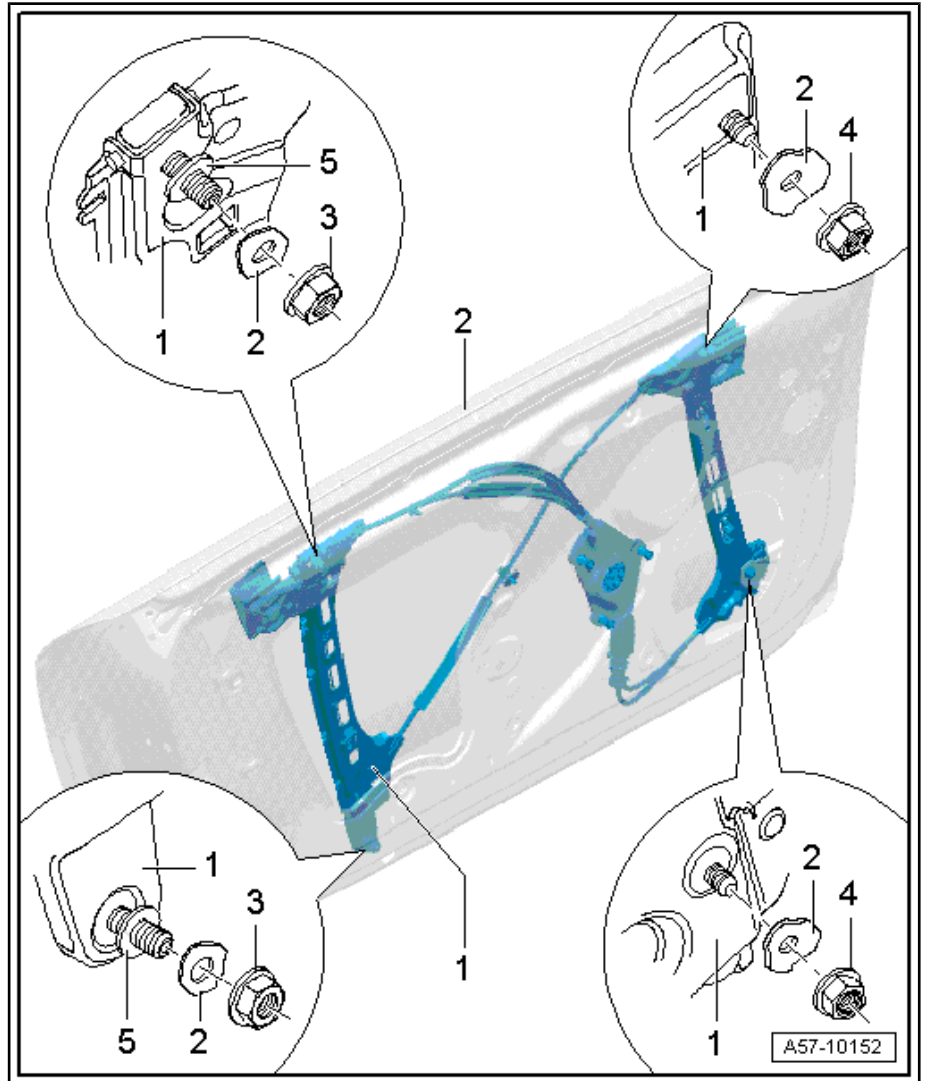
**4 - Nut**

□ 8 Nm

**5 - Adjuster screw**

□ For lateral adjustment, the position of the window regulator can be altered via the adjuster screws.

– Loosen nuts -3- and screw adjuster screws in or out to align with door seal at roof or rear window.



**Height adjustment of window regulator**



**Note**

*The height of the window regulator can be adjusted without removing the door trim.*

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### 1 - Window regulator

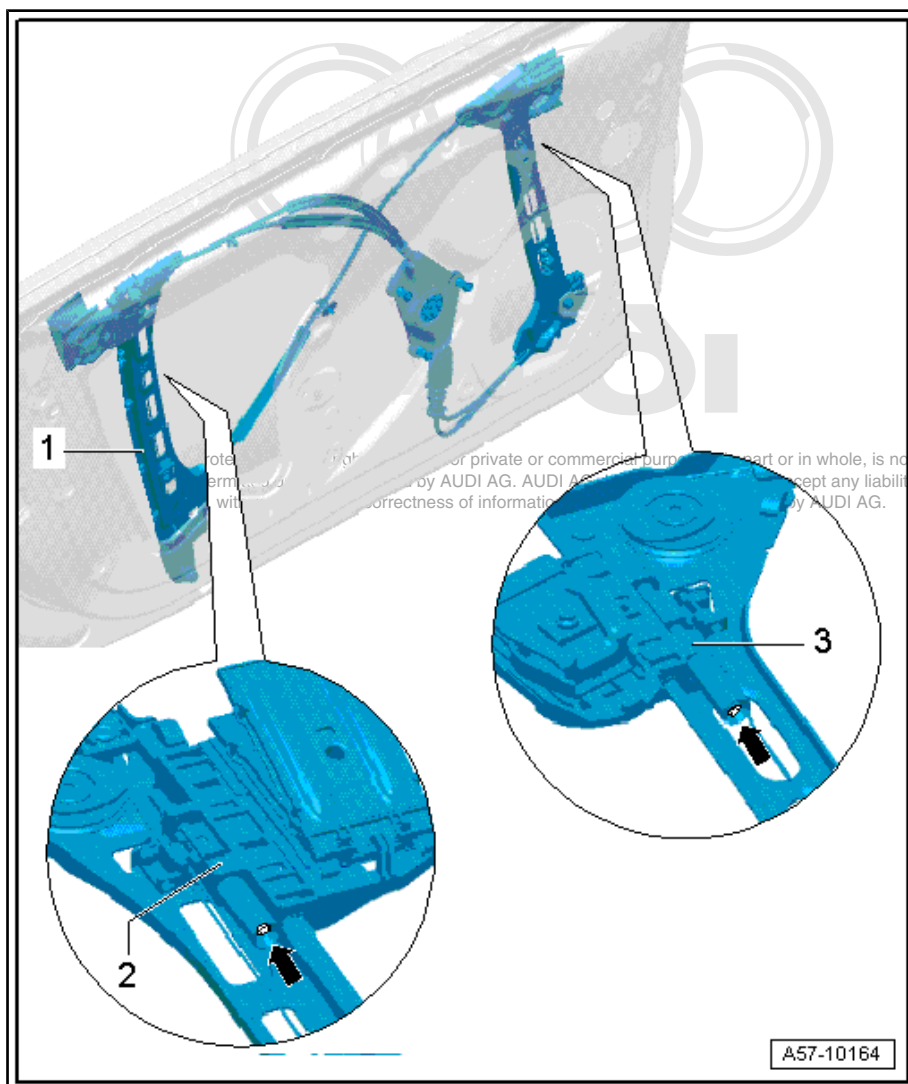
- ❑ To adjust, move window regulator down as far as it will go
- ❑ Apply 5 mm Allen key to adjuster screws from underneath (through door panel) and perform adjustment -arrows- accordingly.

### 2 - Driver (rear)

- ❑ Adjuster screw (rear)  
-arrow-

### 3 - Driver (front)

- ❑ Adjuster screw (front)  
-arrow-



### Removing window regulator motor

- Door trim removed ⇒ Rep. Gr. 70 .

- Bolt -2- 3.5 Nm



#### Note

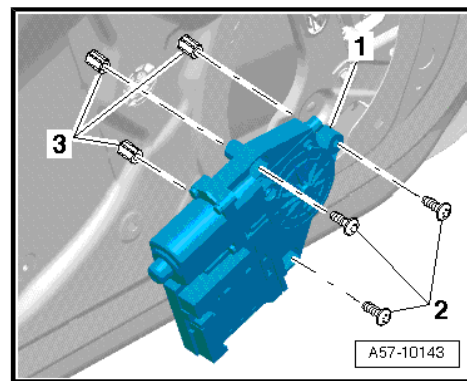
- ◆ *Window regulator motor can be removed or installed with motor or side window in any position.*
- ◆ *Unplug connectors before removing motor.*

- Unscrew bolts -2- and detach motor -1- from threaded pins.

#### Installing

- When installing, make sure threaded pins -3- engage with catches in inner door panel.

- Push window regulator motor -1- onto threaded studs -3- and secure with bolts -2-



#### Note

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

#### Removing and installing rear cover for inner door panel

1 - Cable for interior door handle

2 - Grommet

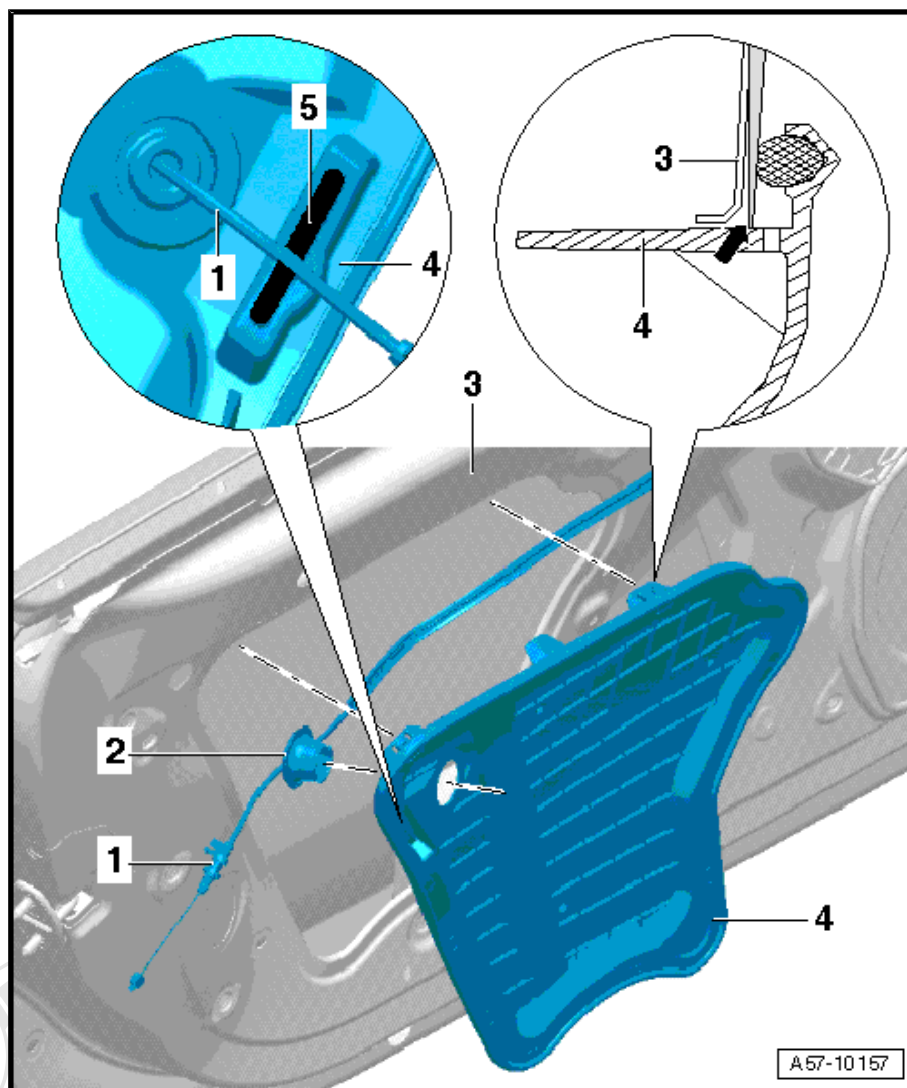
- ☐ Must be completely pressed into cover -4-.

3 - Inner door panel

4 - Cover

- ☐ To remove, gradually release retaining tabs on cover using a thin object.
- ☐ Position of retaining tabs

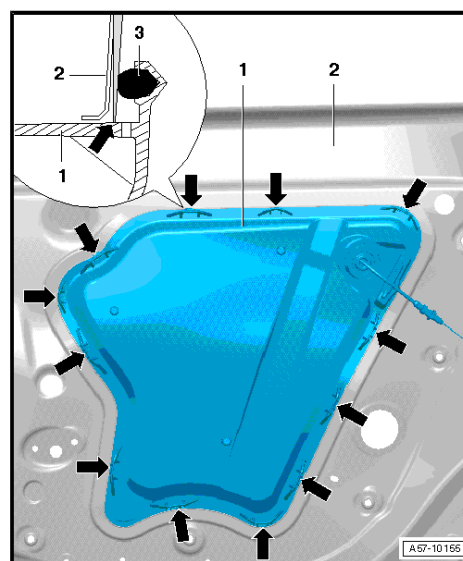
5 -



### Cover fasteners

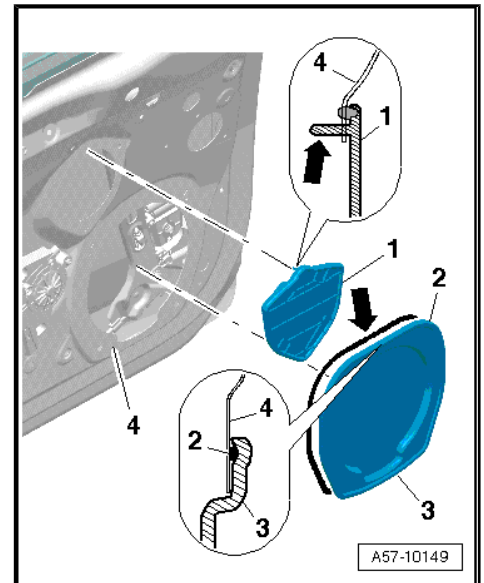
- Use a thin tool to gradually release fasteners -arrows- of cover -1- from inner door panel -2-.
- Renew seal -3- if necessary.

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### Removing and installing front covers for inner door panel

- Insert centring pin -arrow- of cover -1- in inner door panel -4- and press on.
- Renew seal -2- of cover -3- if necessary.



### Removing A-pillar trim

#### 1 - Trim

- Attach trim from above as shown -arrow- and secure with bolt -4-.

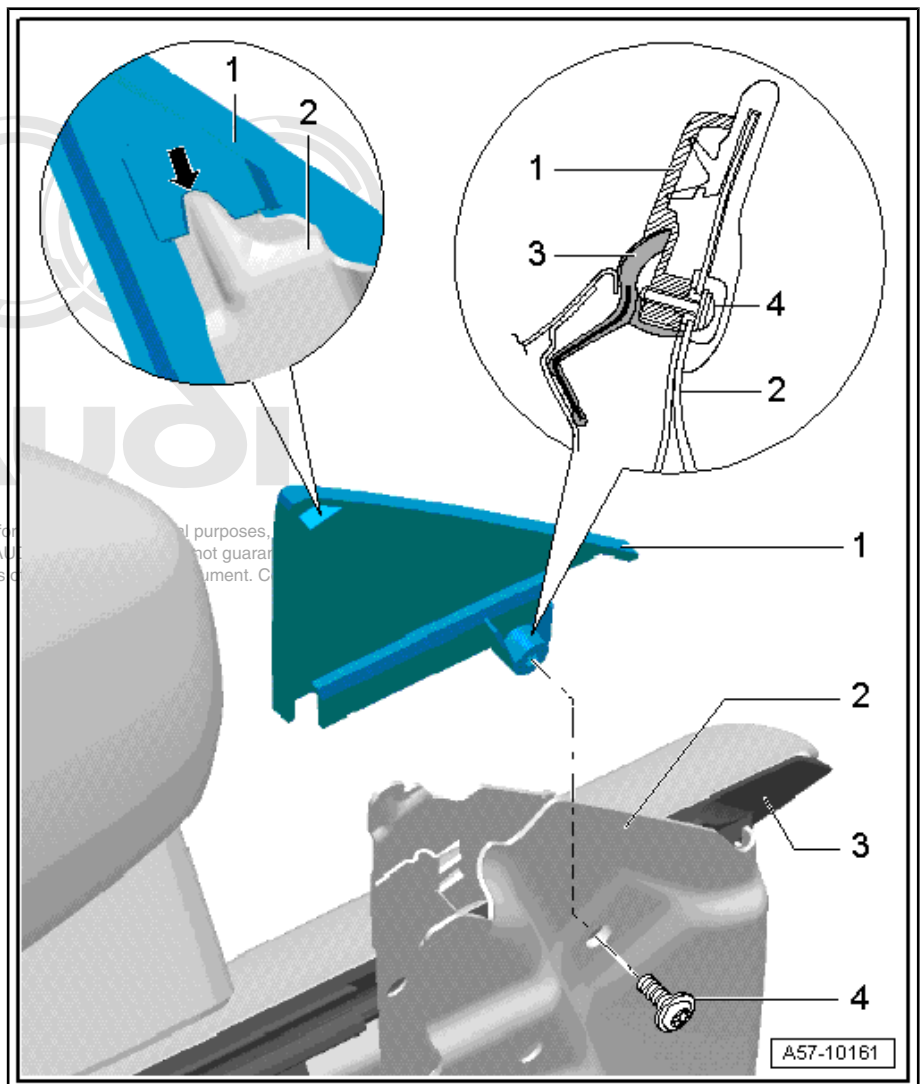
#### 2 - Door

#### 3 - Outer window slot trim strip

- Trim -1- detached for removal

#### 4 - Bolt

- 2.5 Nm



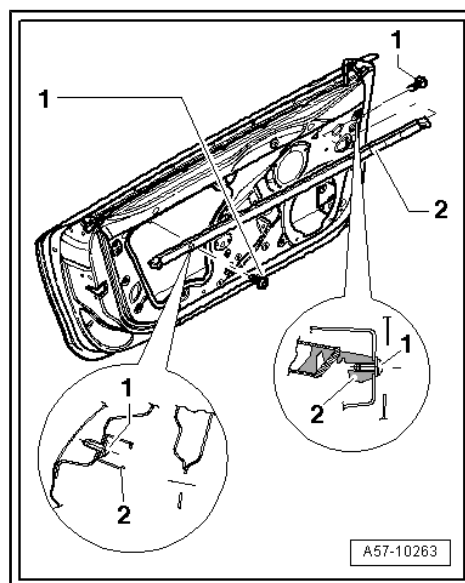
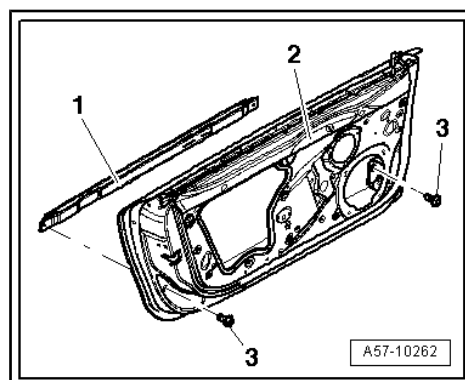
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### Side impact bar for Coupé

- The side impact bar is removed and installed through the elongated hole for the bellows.
- When installing, slide impact bar -1- through elongated hole in door -2- and tighten bolts -3- to 12 Nm.

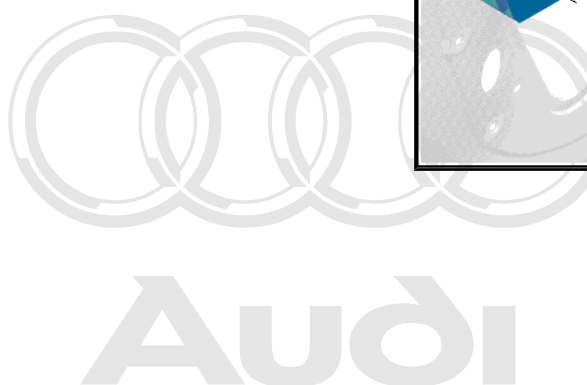
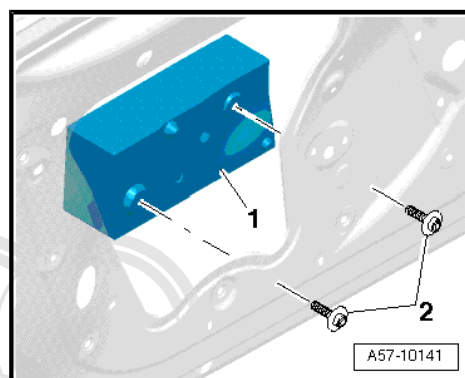
### Side impact bar for Roadster

- The side impact bar is removed and installed through the elongated hole for the bellows.
- When installing, slide impact bar through elongated hole in door.
- Fit impact bar in hole in A-pillar and then secure hand-tight with bolt -1-.
- Then secure impact bar -2- with bolt -1-.
- Tighten bolts to 12 Nm, starting at the B-pillar and working forwards.



### Protective side strip

- Bolt -1- 3.5 Nm
- Insert protective side strip in door and secure with bolts.

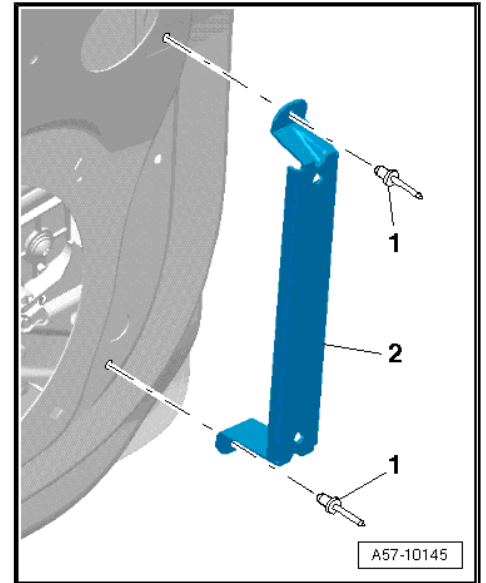


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## Reinforcement for door trim

To remove, drill off rivet heads and knock out rivet stems.



## Removing and installing outer window slot trim strip

### 1 - Door

### 2 - Speed nut

- ☐ Pressed into door flange

### 3 - Window slot trim strip

- ☐ Door trim ⇒ Rep. Gr. 70 and door window removed

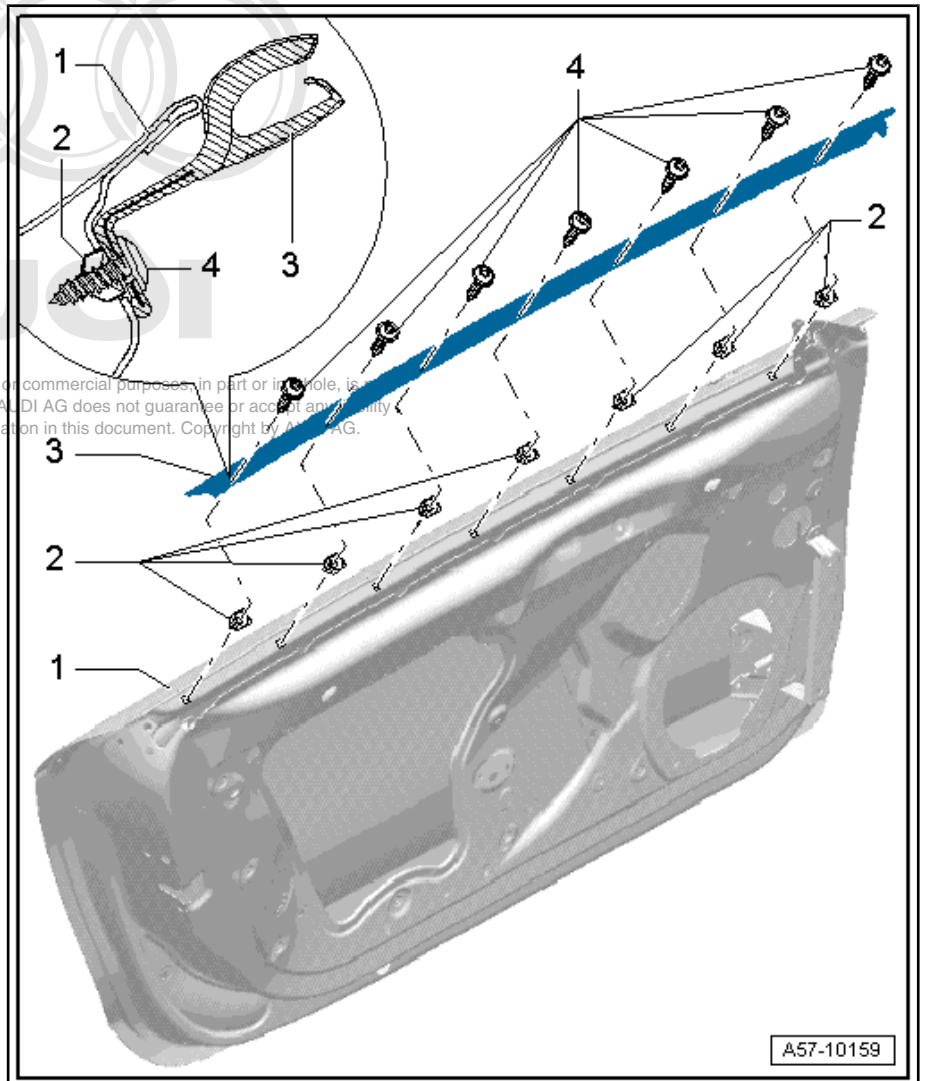
– Remove A-pillar trim.

- ☐ Unscrew bolts and detach window slot trim strip.

- ☐ When installing, align slot trim strip at B-pillar and secure with bolts -4-.

### 4 - Bolt

- ☐ 1.5 Nm



## Removing and installing inner window slot trim strip

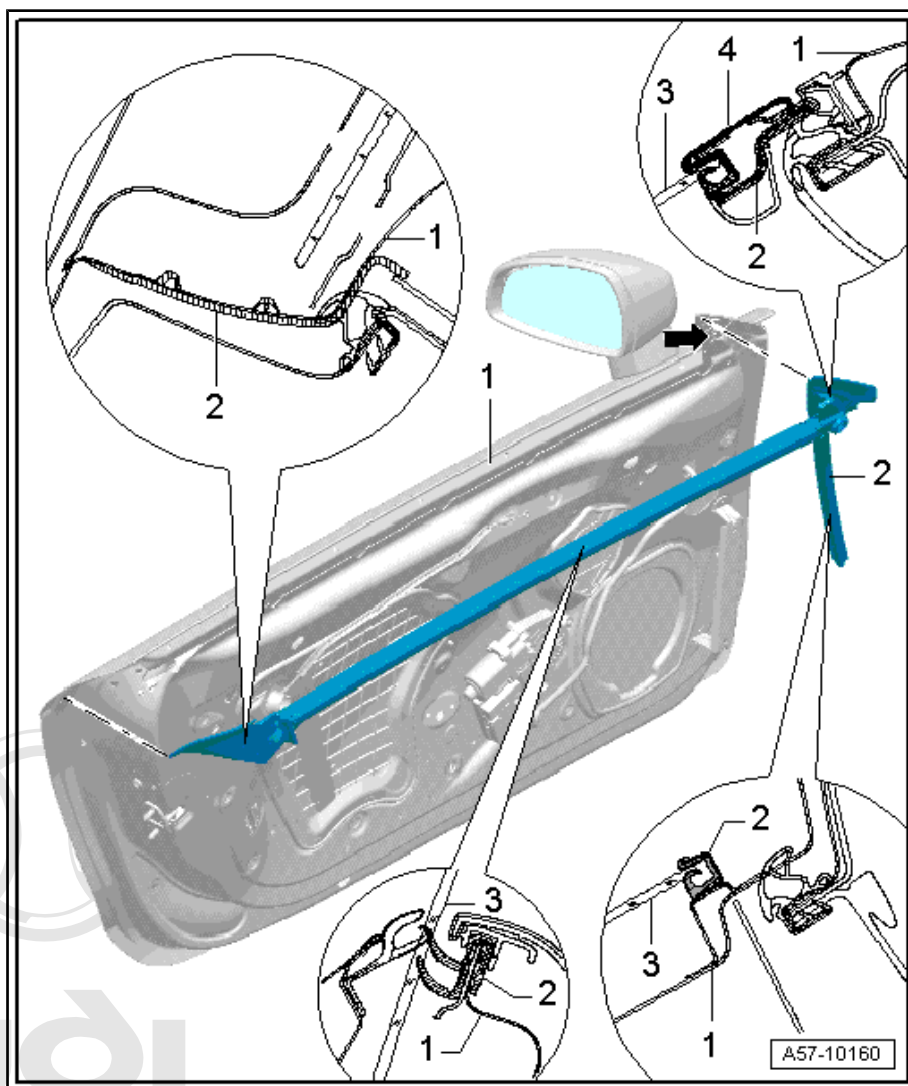
## 1 - Door

## 2 - Inner window slot trim strip

- ☐ Door trim removed.
- ☐ Door window removed.
- To install, insert in guide rail at A-pillar.
- Insert slot trim strip at A-pillar -arrow-.
- Then clip into door at B-pillar.
- Press slot trim strip onto door flange from above.

## 3 - Door window

## 4 - A-pillar trim

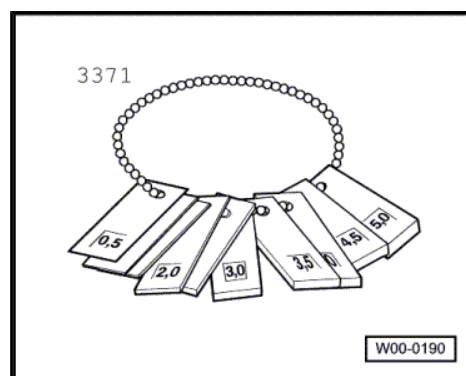


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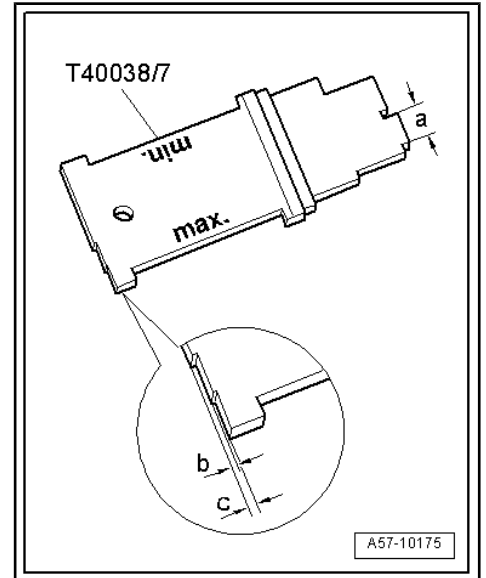
## 1.3 Adjusting door

### Special tools and workshop equipment required

- ◆ Setting gauge -3371-

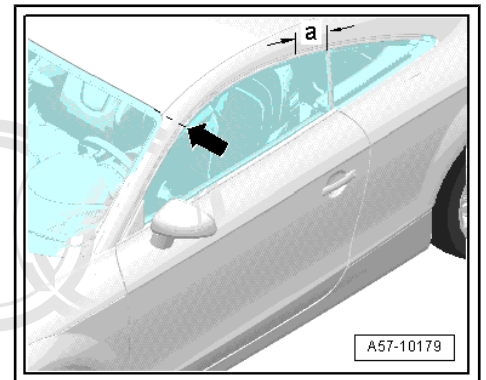


◆ Template -T40038/7-



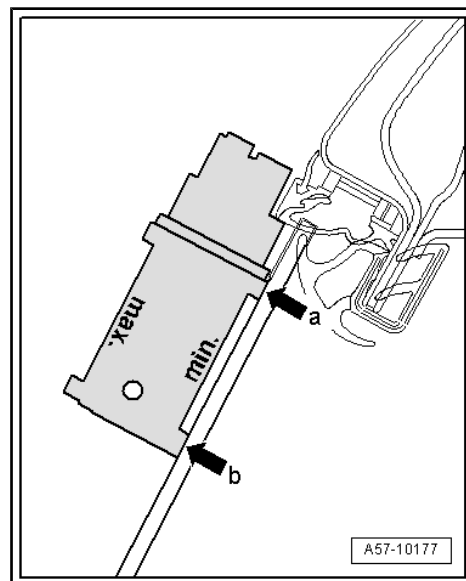
**Adjustment using template -T40038/7-**

- The template can be used to check the lateral position and height of the door as well as its position with respect to the rear window.
- The distance from the side window can be checked with the graduation for dimension -a-.
- The projection of the wing with respect to the door or of the door with respect to the side panel can be checked with the graduations for dimensions -b- and -c-.
- Template must be applied at a distance (-a- = 100 mm) from rear edge of door window or at front as extension of top edge of windscreen -arrow- to roof trim strip.

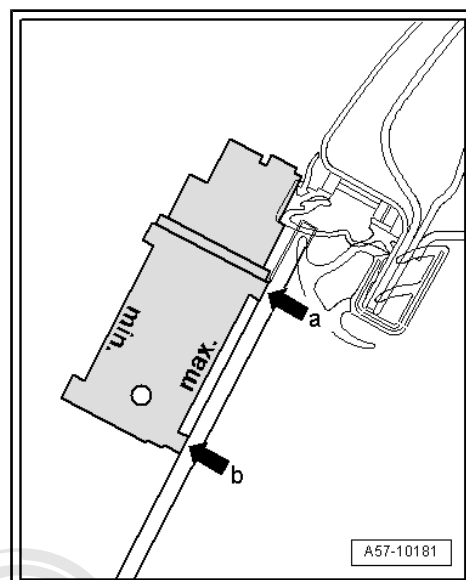


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- In illustration shown (min. mark on window), window is correctly set if two resting surfaces -a- and -b- make contact with door window and there is a small gap at contact surface of roof trim strip.
- If the upper resting surface -a- does not make contact with the door window, the door window is too far inwards.

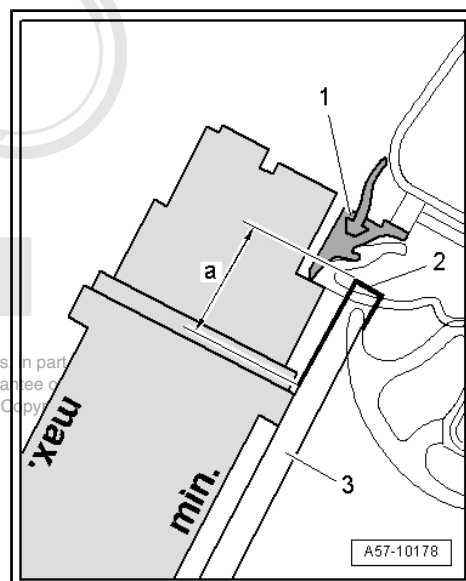


- In illustration shown (max. mark on window), window is correctly set if contact surface makes contact with roof trim strip and there is a small gap at contact surface -a- of upper template.
- If contact surface of template does not make contact with roof trim strip, door window is set too far outwards.



### Height adjustment

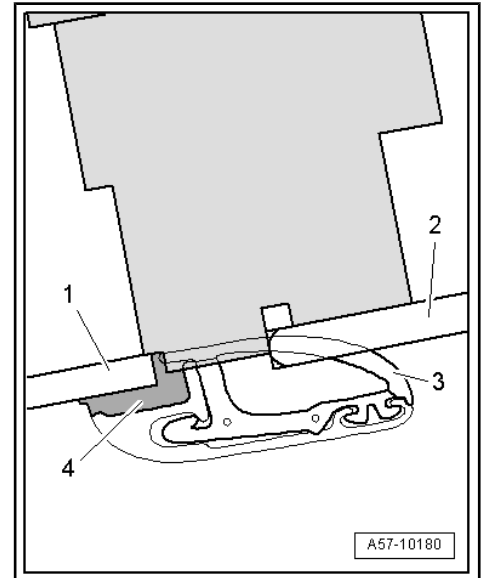
- At a distance of -a- = 17 mm measured from the top edge of the door window, make a mark on adhesive strip -2-.
- Apply template as shown and slide it upwards until it makes contact with roof trim strip -1-.
- When correctly adjusted, the mark must be in the area of the small graduation as shown.



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### Setting with respect to side window

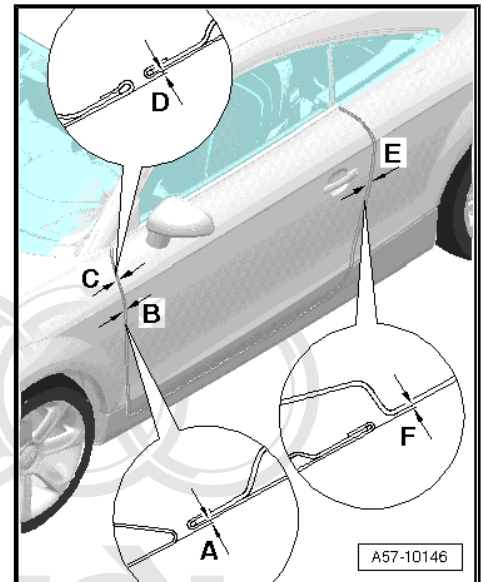
- Insert the template as shown in the door seal -3- between the mounting rail -4- of the side window -1- and the door window -2-.
- The door window must be in the area of the small groove.



### Gap widths

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

- Dimension -A- = 3.5 mm  $\pm$  0.5 mm
- Dimension -B- = 3.5 mm  $\pm$  0.5 mm
- Dimension -C- = 0 mm ... -1 mm
- Dimension -D- = 0 mm ... +1 mm

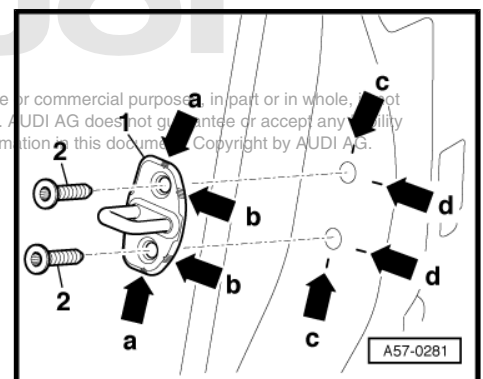


### Adjusting door at striker plate

- Loosen bolts -2-.
- Move striker plate -1- until door shell is flush with body contour.
- Tighten bolts to 20 Nm.



*The striker plate must only be adjusted towards the centre of the vehicle and not in height, as otherwise the lock could become damaged.*



## 1.4 Removing and installing door handle and door lock - exploded view

### 1 - Door lock

- Door trim removed ⇒ Rep. Gr. 70
- ☐ The door lock can be removed without taking out the window regulator.
- ☐ Removing ⇒ [page 92](#)

### 2 - Bolt

- ☐ 20 Nm

### 3 - Anti-theft cover

- ☐ Attached to door panel ⇒ [page 89](#)

### 4 - Mounting bracket

- Remove and install with door handle and lock cylinder housing removed.
- Disengage cable at door lock.
  - ☐ To remove, unscrew cross-head bolt -11-, slide mounting bracket slightly to rear and take out of door.

### 5 - Operating cable

- ☐ Engage in door lock ⇒ [Item 3 \(page 90\)](#)

### 6 - Backing plate (rear)

- ☐ Insert in door panel

### 7 - Lock cylinder housing

- ☐ Removing:
  - Unclip cap on end face of door.
  - Pull out door handle.
  - Use socket wrench (width across flats T20) to unscrew bolt as far as it will go.
  - Whilst pressing gently on the bolt, release the lock cylinder and pull it sideways out of the door.

### ☐ Installing:

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Fit cap 8 before installing.

### 8 - Cap

- ☐ Attached to lock cylinder

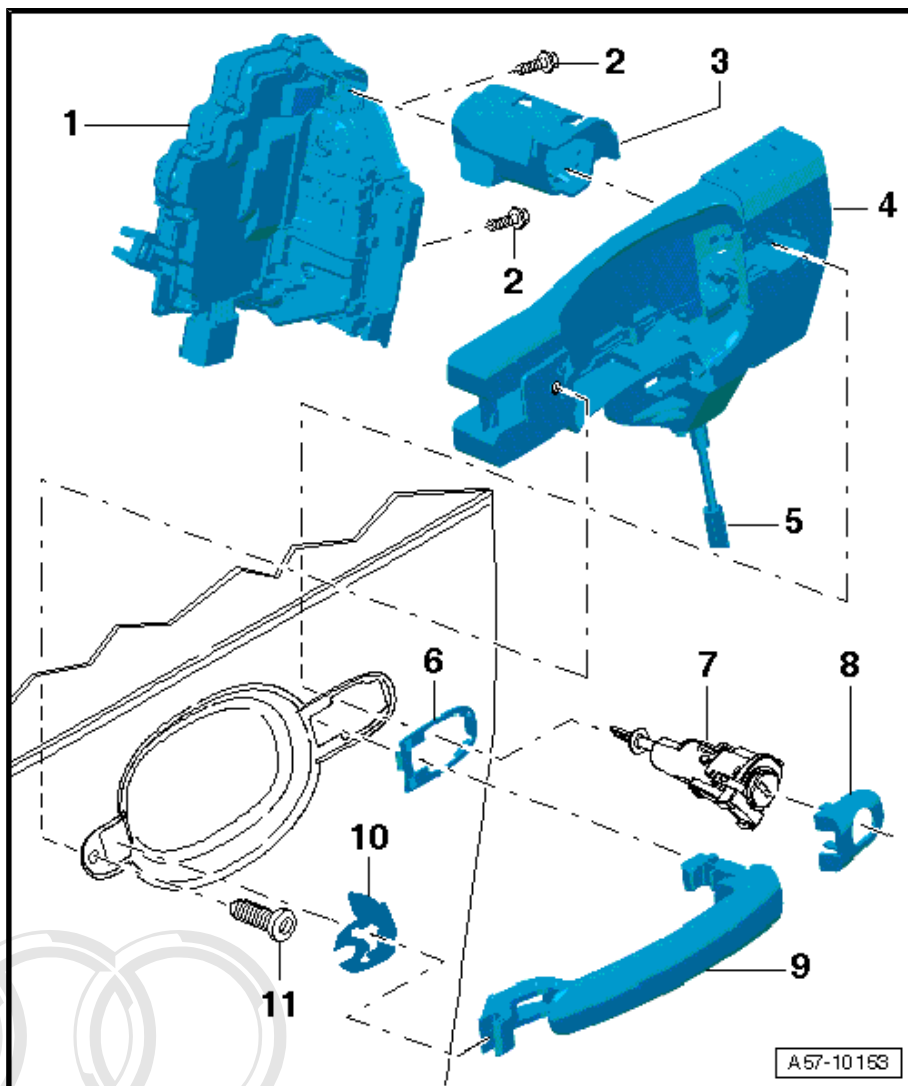
### 9 - Door handle

### 10 - Backing plate (front)

- ☐ Attach to door handle

### 11 - Bolt

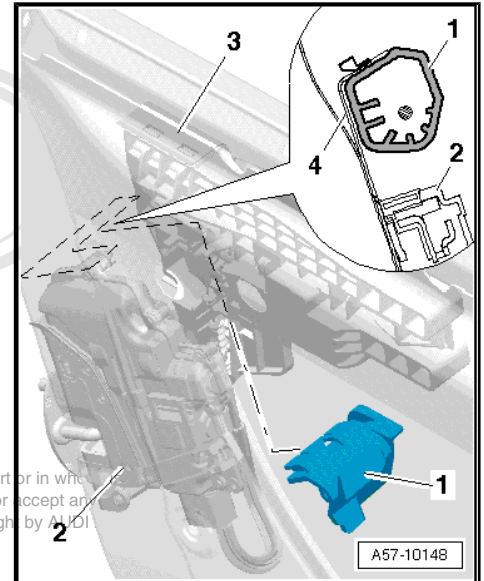
- ☐ 2.5 Nm



### Removing anti-theft cover

- The anti-theft cover -1- is attached as shown to the door panel -4- between the door lock -2- and the mounting bracket -3-.

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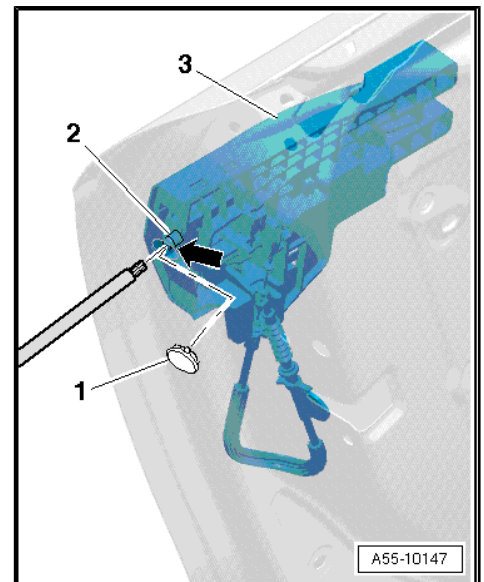


### Removing and installing lock cylinder

- Prise off cover -1-.
- Pull and hold door handle.
- Use a socket wrench (width across flats T20) to unscrew bolt -2- as far as it will go.
- Slight pressure on the socket wrench or bolt is required to completely release the lock cylinder housing.
- Pull lock cylinder housing -2- sideways out of door or mounting bracket.

### Installing

Install in reverse order.





## 1.5 Removing and installing door handle - exploded view

### 1 - Door handle

- ☐ Before detaching, remove lock cylinder with cover at driver's door or housing
- ☐ To remove, slide door handle towards rear and disengage from operating lever on mounting bracket.
- ☐ Pull door handle out towards the side at rear end.
- ☐ Pull door handle out of mounting bracket and door by pulling it towards the rear in diagonal direction.

### 2 - Mounting bracket

### 3 - Operating cable

- ☐ Door lock removed.
- ☐ Engage operating cable in operating lever of door lock -arrow-.



#### Caution

**The Bowden cable must NOT be kinked during installation. This can cause malfunctions.**

**Check function after installing.**

- ☐ Insert operating cable sideways in door lock, then turn through 90° to lock in position.

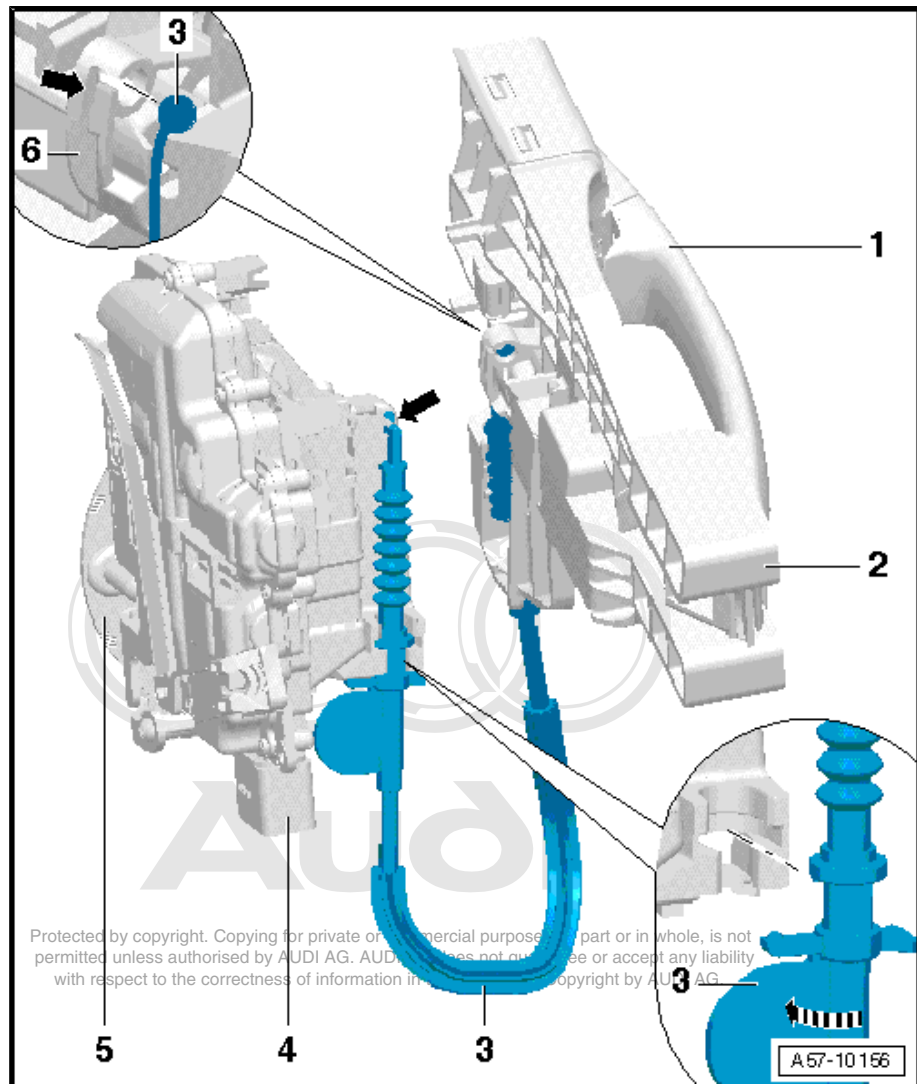
### 4 - Door lock

- ☐ Removing ⇒ [page 92](#)

### 5 - Striker

### 6 - Operating lever

- ☐ Engage operating cable in operating lever at door handle, as shown.



### Inserting door handle in mounting bracket

### 1 - Backing plate (rear)

- ☐ Clip into door panel

### 2 - Door handle

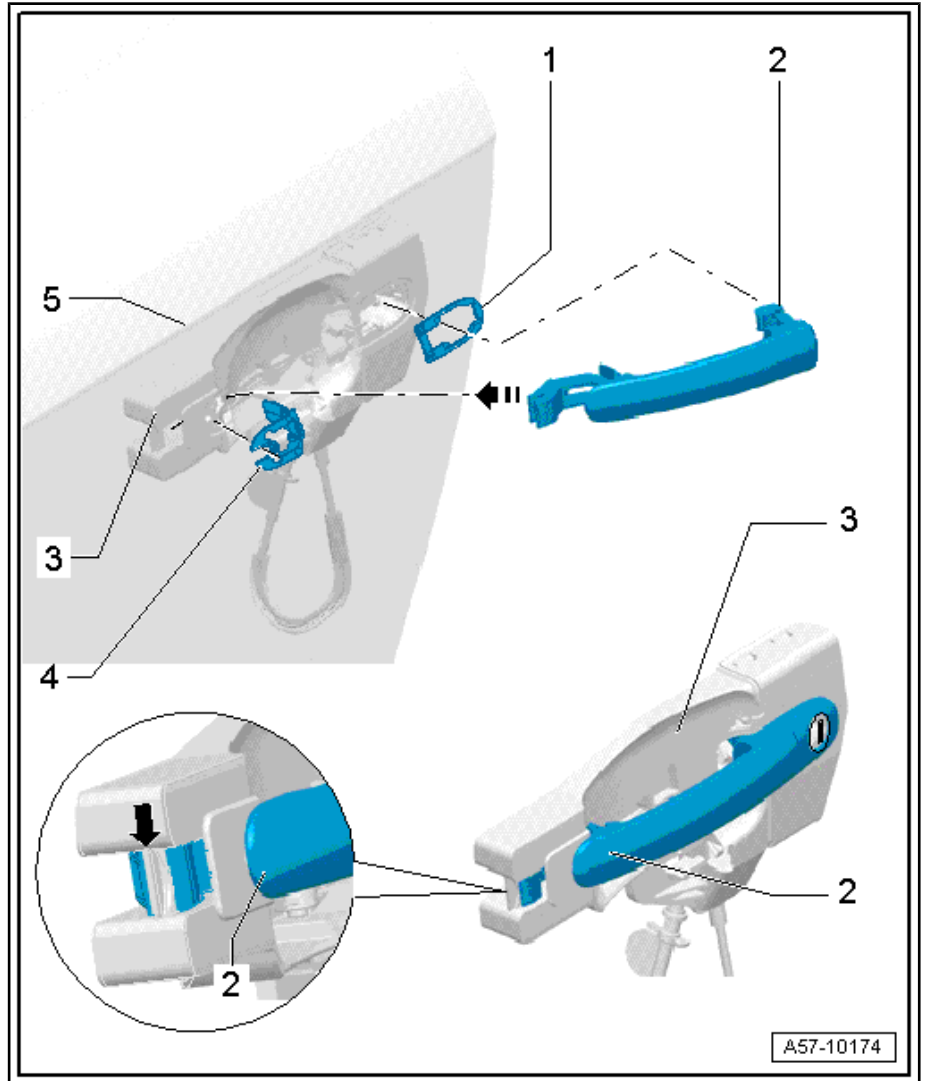
- Backing plates -2- and -5- must be fitted prior to installation.
- Insert door handle in front door opening until it engages in web at mounting bracket -arrow-.
- Press door handle at rear lock cylinder into mounting bracket.
- Insert lock cylinder with cap.
- To secure lock cylinder, completely screw in bolt  
⇒ [page 89](#)

### 3 - Mounting bracket

### 4 - Backing plate (front)

- ☐ Attach to door handle.

### 5 - Door



- When installing door handle -1-, rear end must be inserted in mounting bracket in direction of -arrow- (as shown).



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## 1.6 Removing and installing door lock - exploded view

### 1 - Cap

- ☐ Pressed into door
- ☐ When removing, unclip from lock cylinder and unscrew bolt beneath.

### 2 - Bolt

- ☐ 20 Nm

### 3 - Door

### 4 - Door lock

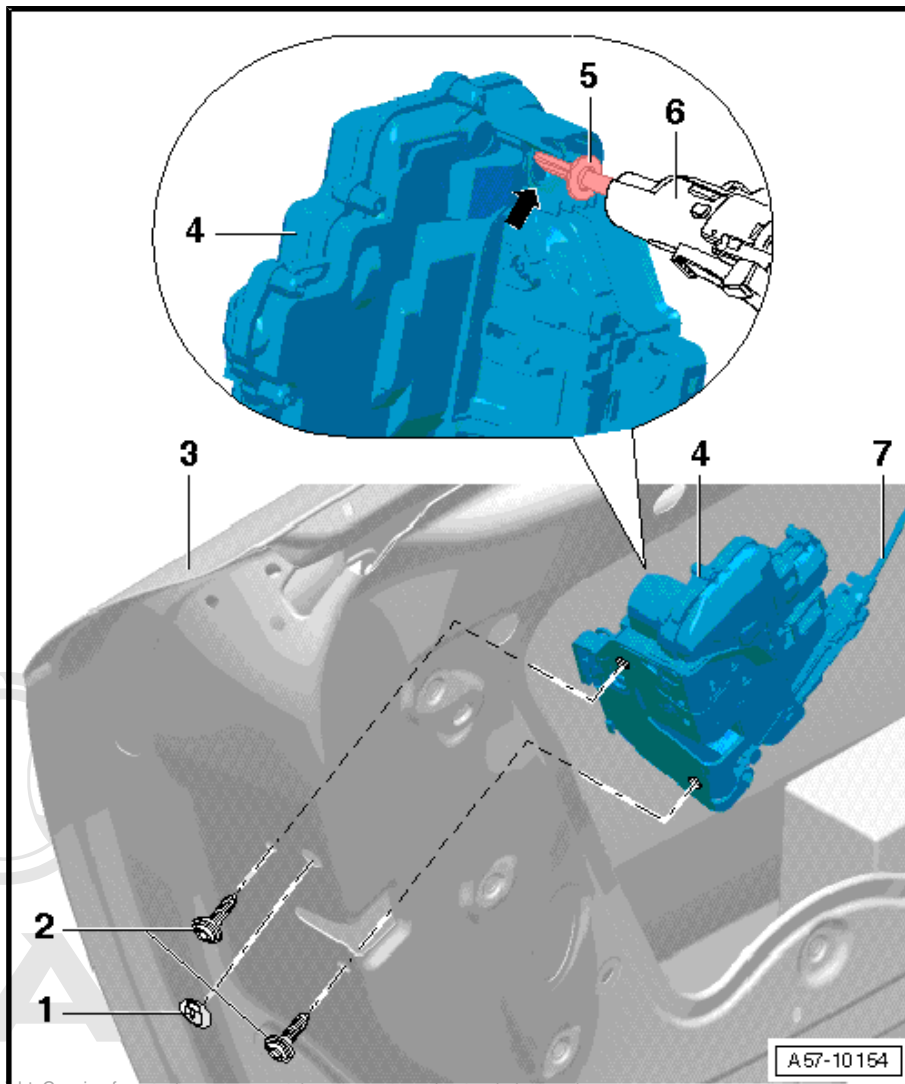
- ☐ Removing:
- ☐ Door trim removed => Rep. Gr. 70
- ☐ Rear cover at inner door panel removed => [page 79](#)
- Run door window to top position.
- Lock cylinder removed.
- Unscrew bolts -2- and slide door lock downwards.
- Disengage cable for interior handle -7- from door lock.
- ☐ Install in reverse order or removal.

### 5 - Shaft for lock cylinder

- ☐ When installing, the so-called "paddle" must slide into groove -arrow- in door lock.

### 6 - Lock cylinder

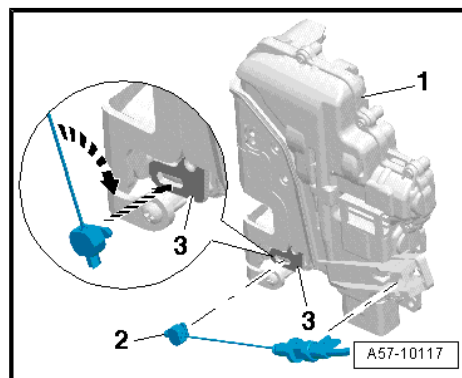
### 7 - Cable for interior door handle



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### Engaging cable for interior handle in door lock

- To install, first insert Bowden cable -2- vertically into release lever -3- as shown in detail view, then swivel 90° and clip into door lock -1- to secure.



## 1.7 Door seals - Coupé

### Removing and installing inner door seal

#### 1 - Door seal

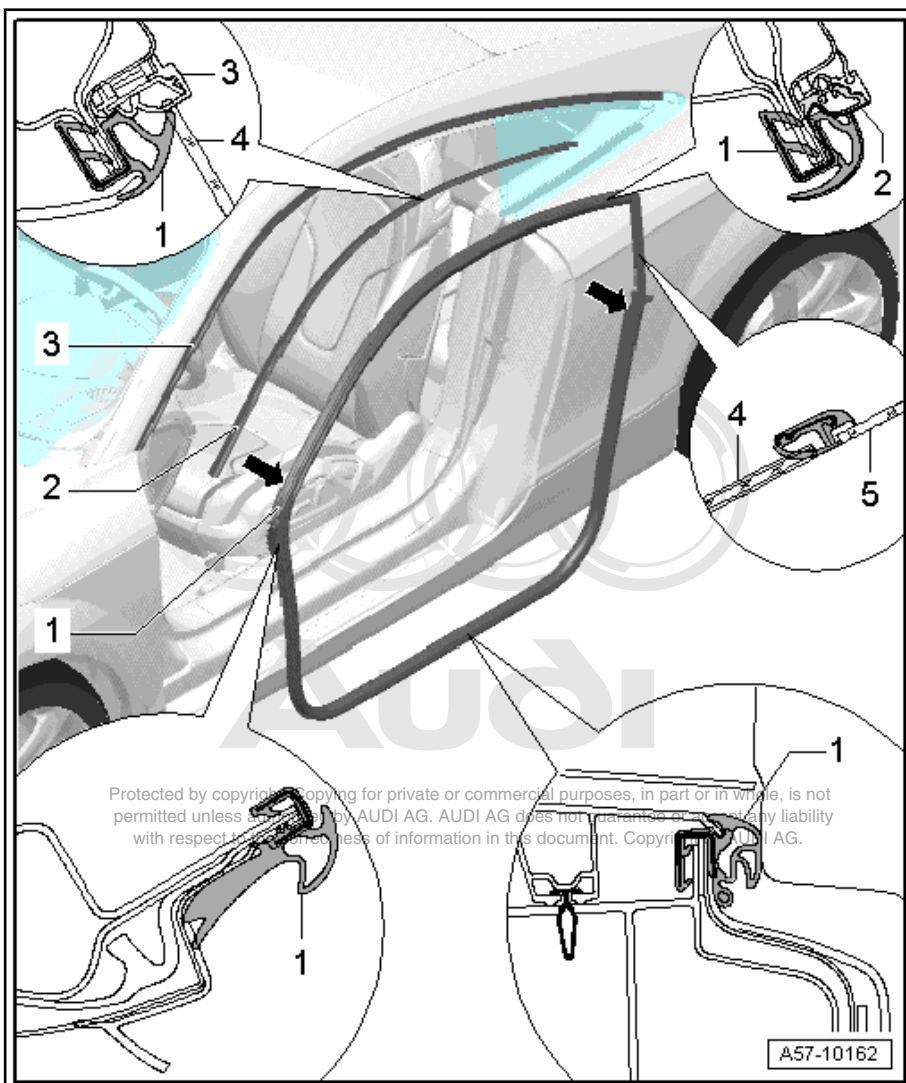
- Remove and install with A-pillar trim (bottom), sill panel trim and B-pillar trim removed ⇒ Rep. Gr. 70 .

##### ❑ Removing:

- Detach door seal from door flange all round or pull out of seal rails at top and side window.

##### ❑ Installing:

- Start by pressing door seal into seal rail at B-pillar (top) -arrow-.
- Then press door seal into seal rail at A-pillar (top) -arrow-.
- At roof frame, first press door seal in at centre, then along entire length of seal rail.
- Push door seal into seal rail at bottom of side window.
- Then push seal fully into seal rail in area of side window, starting from the centre.
- Press door seal onto door flange at B-pillar (bottom).
- Then push door seal on between side window and B-pillar (bottom), starting in centre.
- Press door seal onto door flange at A-pillar (bottom).
- Then press door seal onto door flange between A-pillar and B-pillar (bottom), starting in centre.
- Press door seal on completely between A-pillar (bottom) and A-pillar (top), starting in centre.



#### 2 - Seal for roof frame

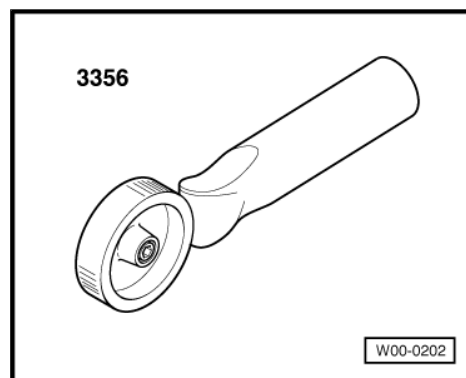
- ❑ Pressed in on flange in roof frame

#### 3 - Roof trim strip

## 1.8 Door seals - Roadster

### Special tools and workshop equipment required

◆ Roller -3356-



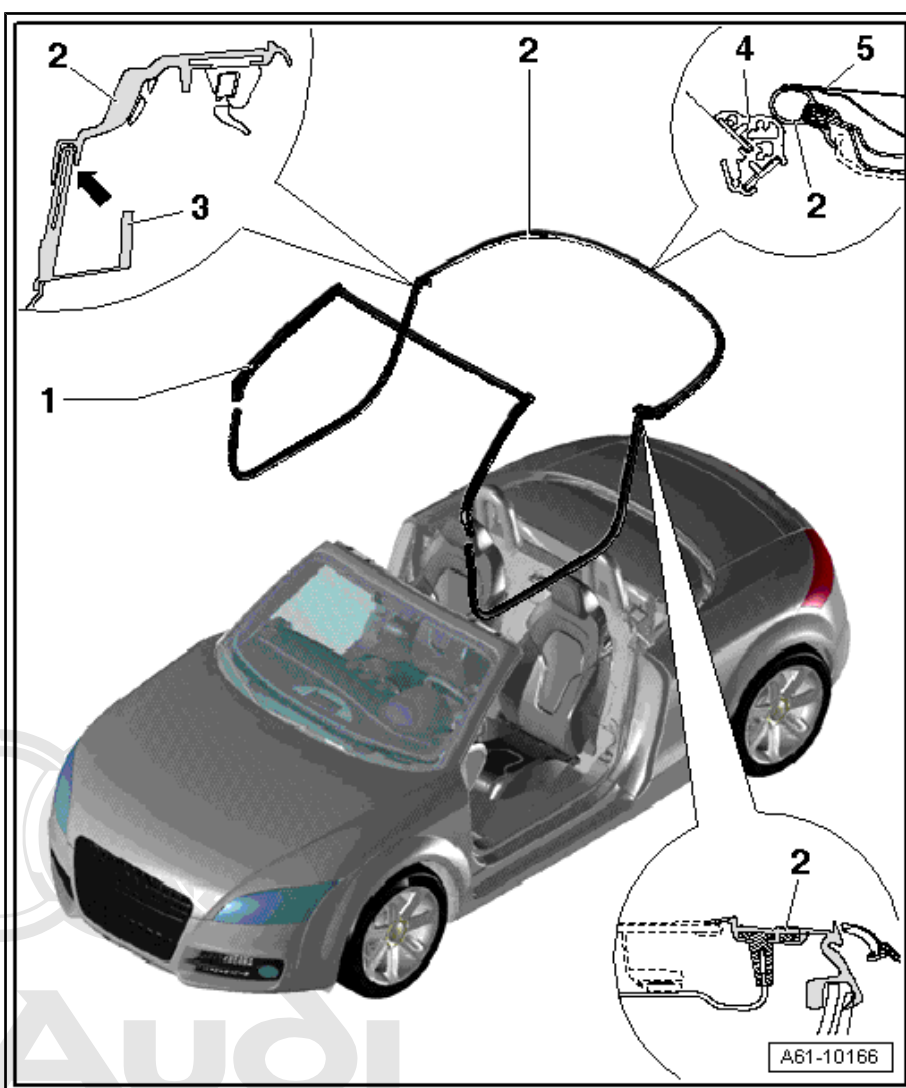
## Removing and installing inner door seal

### 1 - Seal (front)



#### Note

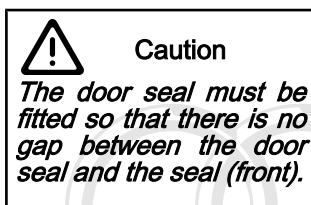
- A-pillar trim (top) and roof frame trim removed ⇒ Rep. Gr. 70
- Unscrew bolts and pull off seal (front) starting at A-pillar.
- Remove any residual adhesive at points where seal was attached with adhesive strip.
- Bonding surfaces must be free of dust and grease; clean with cleaning solution D 009 401 04.
- Attach seal at top corners (left and right) of roof flange.
- Slide seal onto roof frame.
- Attach seal downwards onto flange of A-pillar.
- Secure seal at top with bolts (left and right).
- Grasp tab and gradually pull out protective film between roof frame and seal and press seal onto roof frame with a roller -3356-.



### 2 - Inner door seal

- A-pillar trim (bottom), sill panel trim and back panel trim removed ⇒ Rep. Gr. 70
- Pull door seal off body flange all around and pull out from underneath seal (front).
- Remove any residual adhesive at points where seal was attached with adhesive strip.
- Bonding surfaces must be free of dust and grease; clean with cleaning solution D 009 401 04.

- Place door seal into vehicle according to contour.
- Peel protective film off double-sided adhesive tape and press onto B-pillar (left and right).
- Press door seal downwards onto body flange at B-pillar.
- Slide door seal onto seal (front) at A-pillar.



- Press door seal onto flange in radius sections (bottom); if necessary, compress seal in area of sill panel to take up any excess length.
- Align door seal mouldings at B-pillar (top) with side panel and attach.
- Working towards rear, press door seal onto body flange in convertible roof compartment on both sides.

### 3 - Water drip tray

- ☐ Position door seal on water drip tray -arrow-, as shown in detail view.

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## 2 Servicing central locking system



### Note

- ◆ The central locking system is electrical.
- ◆ The door actuators are integrated into the door lock and have two motors.
- ◆ The actuators cannot be renewed separately.
- ◆ The first motor locks the door, whereas the second motor locks the interior door handle (SAFE function = country-specific).
- ◆ The doors can then also no longer be opened from the inside.
- ◆ Following an accident involving airbag triggering, the central locking system control unit releases any locked doors.
- ◆ Central locking system control unit is located in rear right side panel.

### Overview of components

1 - Front passenger door control unit -J387-

2 - Anti-theft alarm sensor - G578-

- ☐ Removing and installing  
⇒ Rep. Gr. 96

3 - Convenience system central control unit -J393-

- ☐ Removing and installing  
⇒ Rep. Gr. 96

4 - Tank filler flap locking motor -V155-

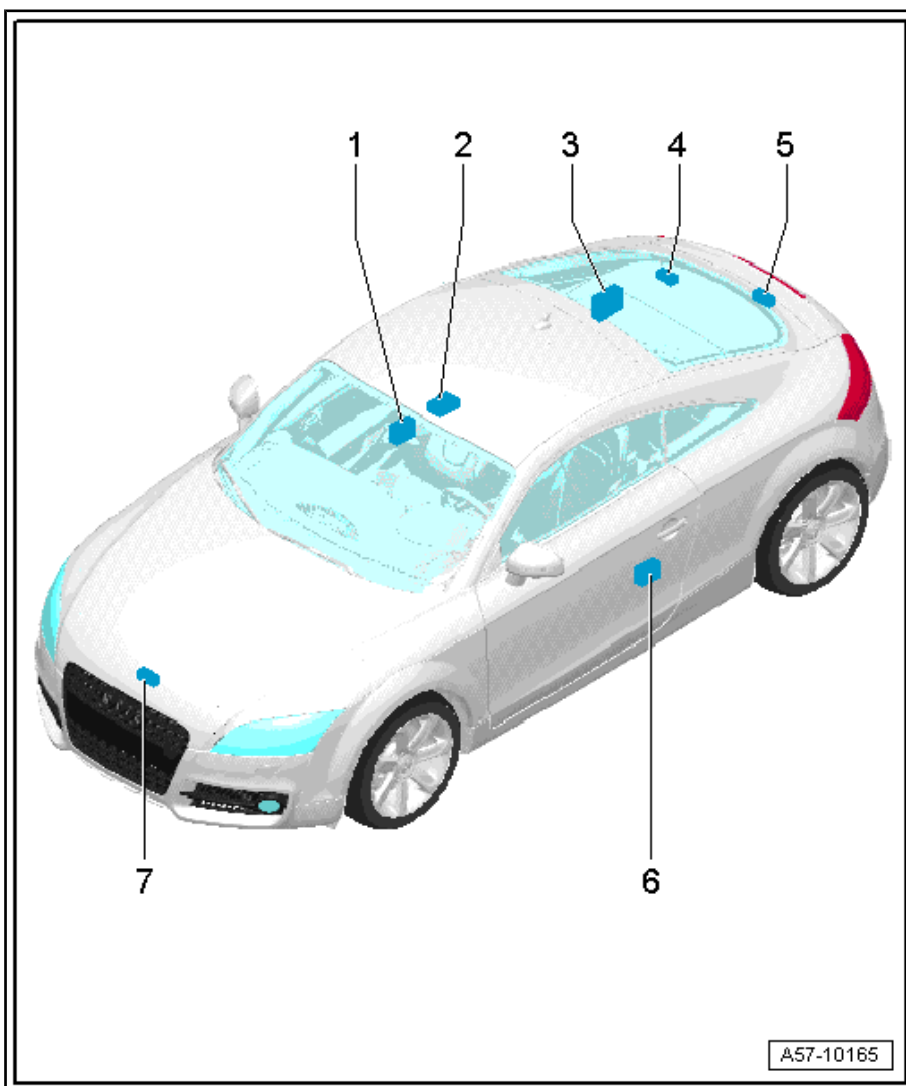
- ☐ Removing and installing  
⇒ [page 97](#)

5 - Rear lid release motor - V139-

6 - Driver door control unit - J386-

7 - Bonnet contact switch - F266-

- ☐ Removing and installing  
⇒ [page 97](#)



A57-10165



## 2.1 Removing and installing bonnet contact switch -F266-

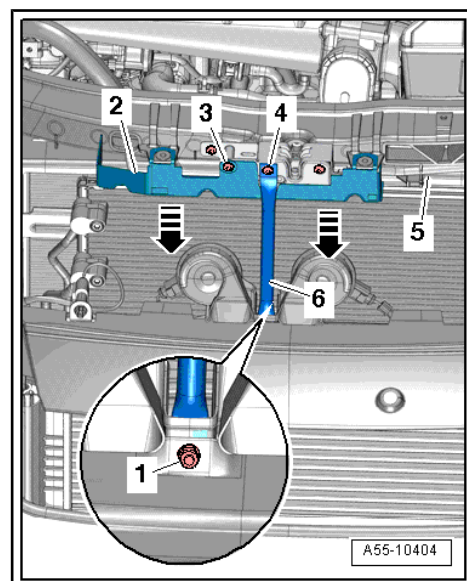
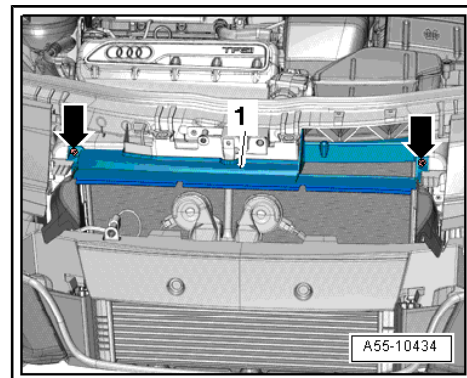
### Removing



#### Note

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

- Remove bumper ⇒ [page 156](#) .
- Remove bolts -arrows-.
- Detach air duct -1-.
- Unscrew nut -1- and bolts -3- and -4-.
- Detach brace -6-.
- Disengage anti-theft bracket -2- from bottom of lock carrier -5- -arrows- and detach.



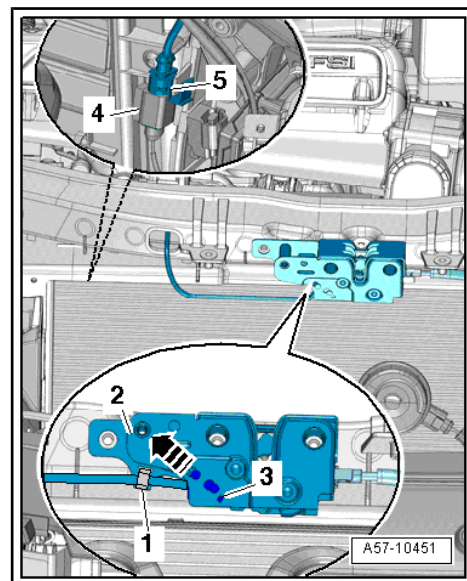
- Release retaining tab -5- and take electrical connector out of bracket.
- Unplug electrical connector -4-.
- Cut through cable tie -1-.
- Guide wiring harness out of lock carrier.
- Release retaining tab -3- and disengage bonnet contact switch -F266- at bonnet -2- in direction of -arrow- and detach.

### Installing

- Tightening torques ⇒ [page 33](#)

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

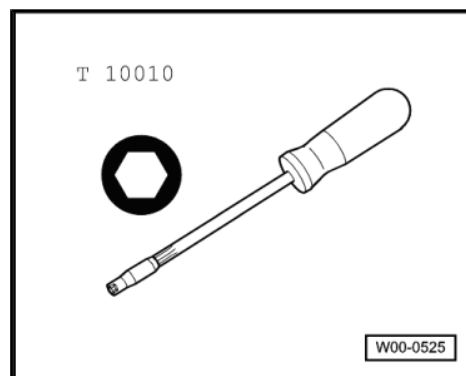
- Install bumper ⇒ [page 156](#) .



## 2.2 Removing and installing tank filler flap locking motor -V 155-

Special tools and workshop equipment required

◆ Hexagon socket screwdriver -T10010-



Exploded view

1 - Manual release

2 - Bracket

3 - Tank filler flap locking motor  
-V 155-

□ Installing ⇒ [page 99](#)

4 - Cable for tank flap release

5 - Tank flap

□ Removing ⇒ [page 70](#)

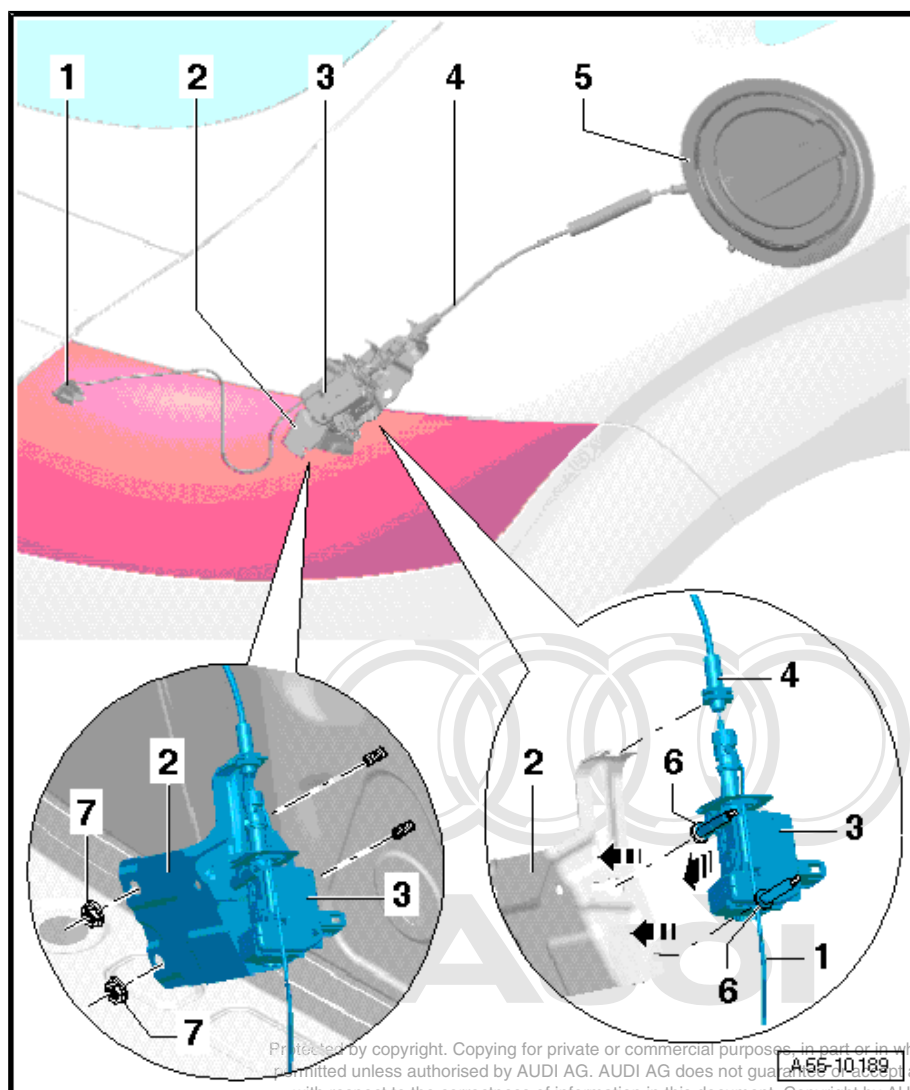
6 - Bolt

□ With bracket -2- in position, loosen bolts in clockwise direction using hexagon socket screwdriver -T10010-.

□ 2 Nm

7 - Nut

□ 9 Nm



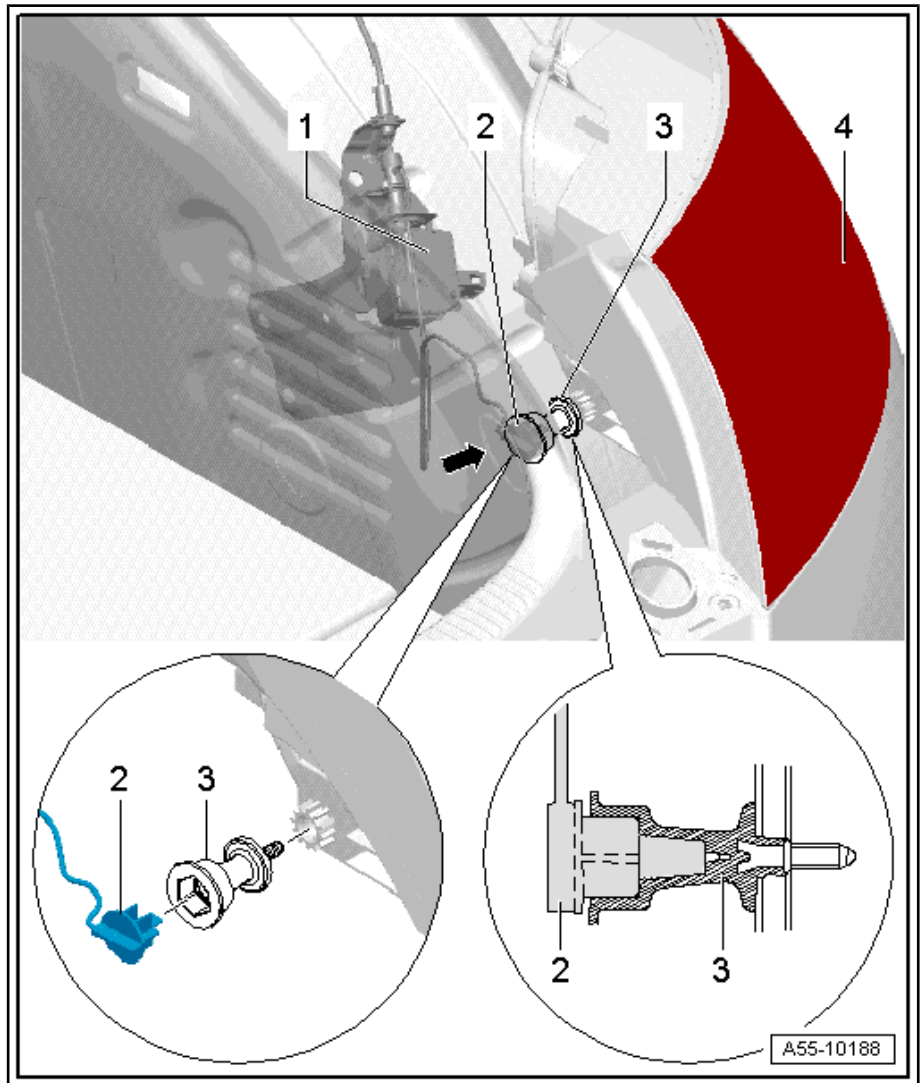
Cable routing for tank flap manual release

1 - Manual release motor

2 - Manual release clip

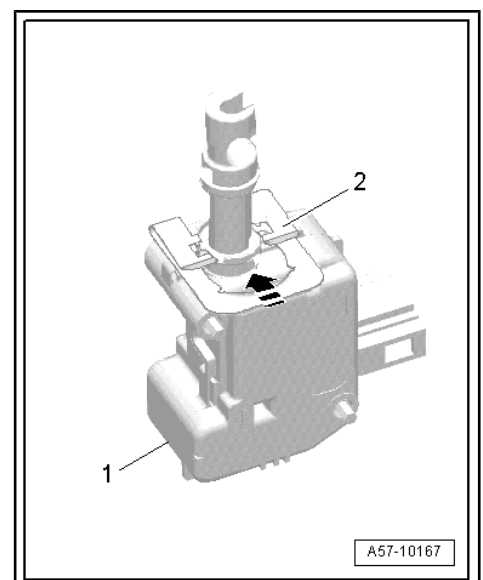
- Press into manual release retainer.

3 - Manual release retainer



### Installing tank flap release motor

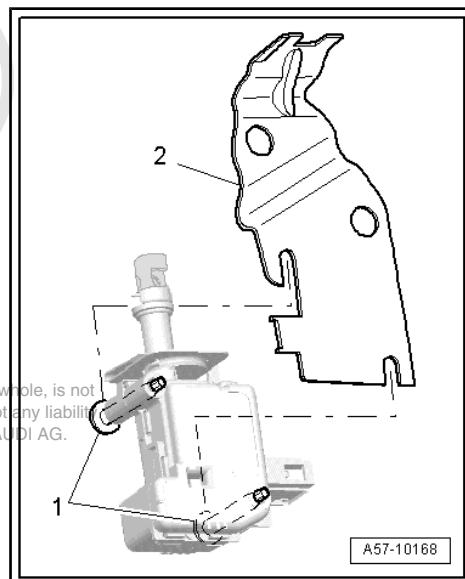
- Insert manual release clip -2- in motor -1-.



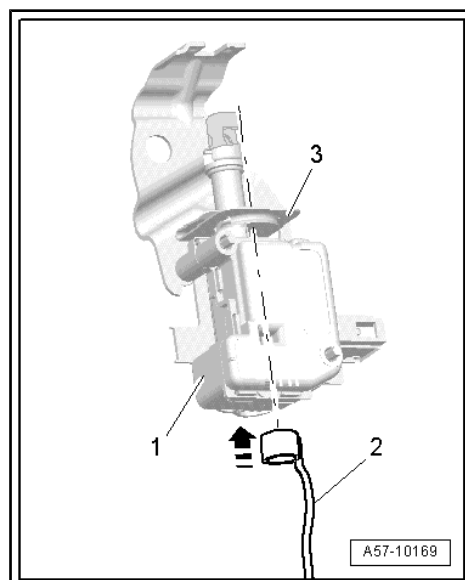
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- Insert motor in retainer -2- and tighten bolts -1-.

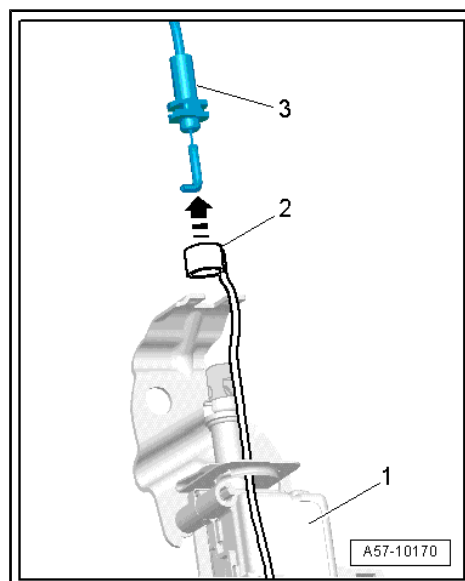
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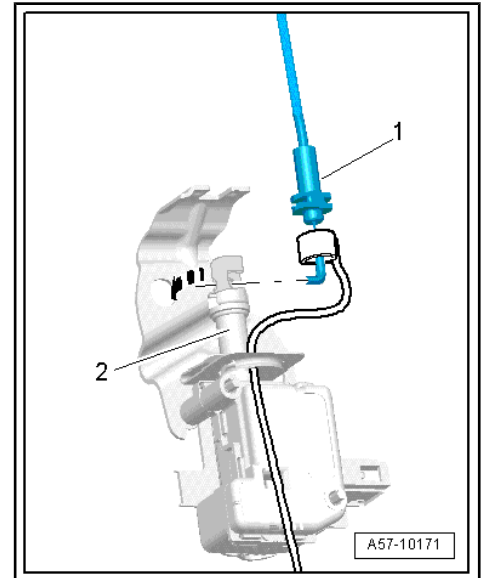
- Guide manual release -2- through clip -3- at motor -1-.



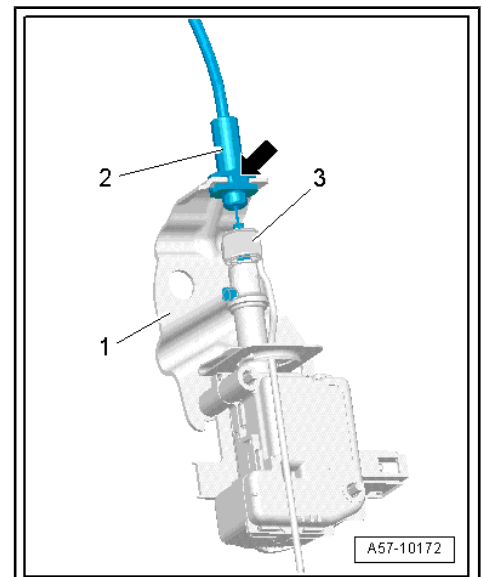
- Attach manual release -2- to cable -3-.



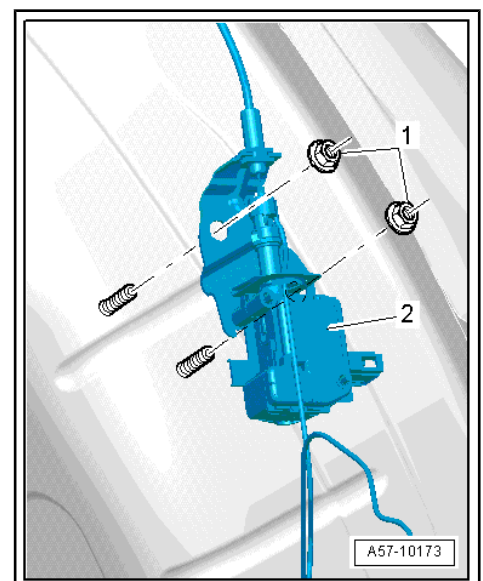
- Insert cable -1- in operating rod -2- and turn until it engages audibly.



- Attach manual release cap -3- to operating rod and press support bracket of cable -2- into mounting of retainer -arrow-.



- Secure assembly -2- in wheel housing (top) with nuts -1-.



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## 61 – Convertible roof, hardtop, canopy

### 1 Repairing convertible roof (soft top)

#### 1.1 Safety precautions

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

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

#### 1.2 Convertible roof - exploded view

##### 1 - Convertible roof

- ☐ Removing and installing  
⇒ [page 103](#)

##### 2 - Tensioning straps

- ☐ Bolted on from luggage compartment below convertible roof storage compartment

##### 3 - Hydraulic system

- ☐ Must be removed when removing convertible roof

##### 4 - Bolts

- ☐ 36 Nm

##### 5 - Clip

- ☐ Retaining clip for tensioner

##### 6 - Tensioner

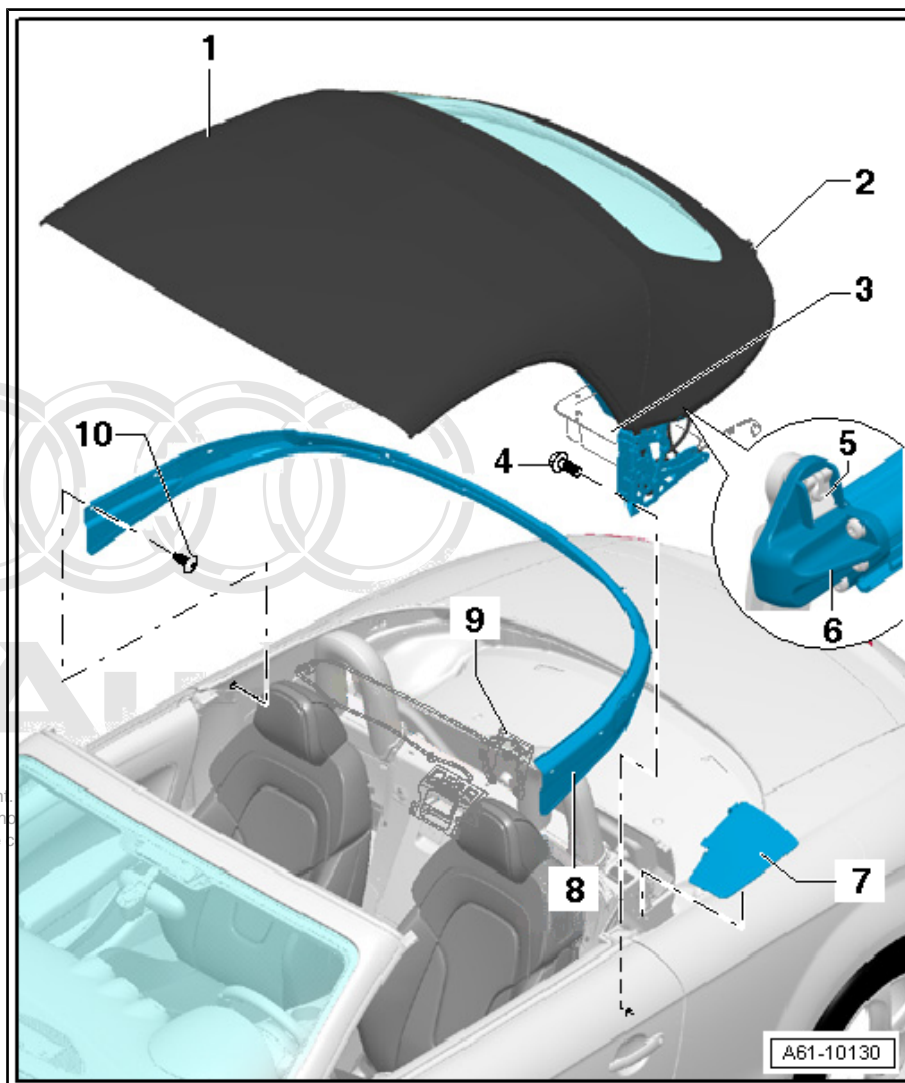
- ☐ Must be removed before removing convertible roof
- ☐ Release clip and detach tensioner from retaining pin at side

##### 7 - Flap for convertible roof frame

- ☐ Removing and installing  
⇒ [page 114](#)

##### 8 - Trim (rear) for convertible roof storage compartment

- ☐ Detach only from rear of tensioner when removing convertible roof  
⇒ [page 106](#)





## 9 - Convertible roof release mechanism

- Only on vehicles with manually operated convertible roof

## 10 - Clip

- 12 x

## 1.3 Removing and installing convertible roof

### Removing convertible roof



#### Note

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

- Remove all luggage compartment trim panels ⇒ Rep. Gr. 70 .
- Remove back panel trim sections behind seats ⇒ Rep. Gr. 70 .
- Unbolt lid for hydraulic pump housing from body (6x) and take out housing with hydraulic pump ⇒ [page 110](#) .
- Close convertible roof.
- Unbolt tensioning straps below convertible roof compartment and pull through into convertible roof compartment ⇒ [page 111](#) .
- Remove front trim from convertible roof compartment.
- Retract convertible roof about half-way into convertible roof compartment.
- Completely detach trim for convertible roof compartment from tensioner ⇒ [page 116](#) .



#### Caution

- ◆ *Insert trim from side between outer panel and plastic trim panel in area of main mounting.*
- ◆ *If trim is not inserted, the convertible roof compartment might be damaged.*

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- Unclip hydraulic lines from rear panel of convertible roof compartment ⇒ [page 139](#) .



#### Note

*When retracting the convertible roof into the convertible roof compartment, press down the tensioner so that it does not catch on the seal at the rear of the compartment.*

- Retract convertible roof completely into convertible roof compartment.



- Remove flaps for convertible roof (left and right) and disconnect motors ⇒ [page 114](#) .
- Detach tensioner on both sides ⇒ [page 106](#) .
- Unplug electrical connector for hydraulic pump.

**Note**

*Before slackening the bolts securing the main mounting, the height adjustment screw must be unscrewed as far as the bottom panel of the convertible roof compartment and the distance between the main mounting and the rear panel of the compartment must be measured ⇒ [page 107](#) .*

- Remove bolts on main mountings (left and right).
- Lift convertible roof out of convertible roof compartment (towards the front and at an angle), at the same time pulling hydraulic pump through bottom panel into convertible roof compartment with the aid of a second mechanic.
- Take convertible roof off vehicle towards the rear.

**Installing convertible roof**

- Installation is performed accordingly in the reverse sequence.

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## 1.4 Convertible roof compartment trim (front) - exploded view

### 1 - Convertible roof compartment trim (front)

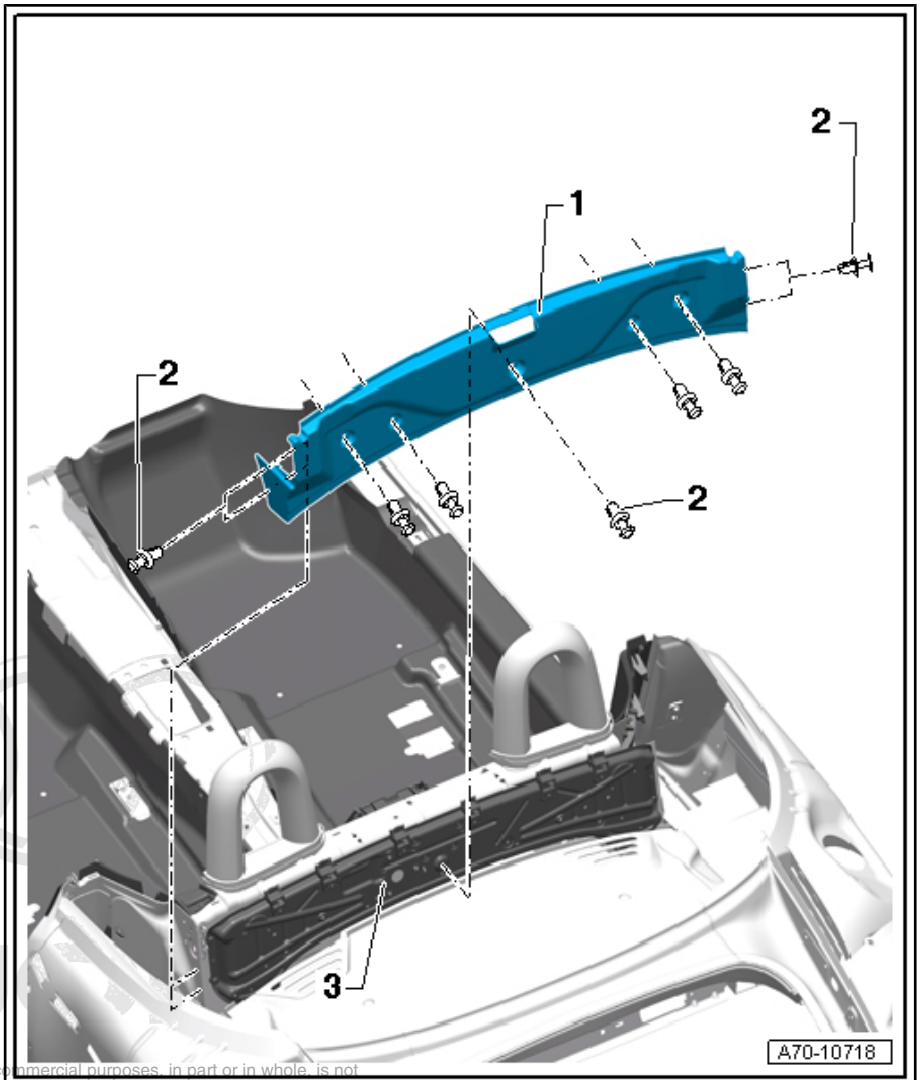
- ☐ Removing and installing  
⇒ [page 105](#)

### 2 - Fastener

- ☐ 9x

### 3 - Windbreak

- ☐ Some vehicles are only equipped with the mount for the windbreak. Note type of equipment on vehicle.

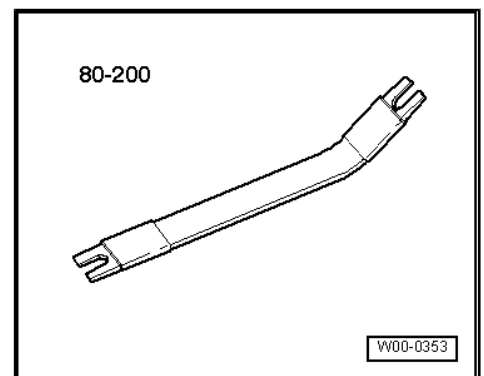


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## 1.5 Removing and installing convertible roof compartment trim (front)

### Special tools and workshop equipment required

- ◆ Removal lever -80 - 200-



### Removing

- Remove back panel cover.

- Position convertible roof and flaps for frame linkage so that fasteners -A- can be unclipped using removal lever -80 - 200- .



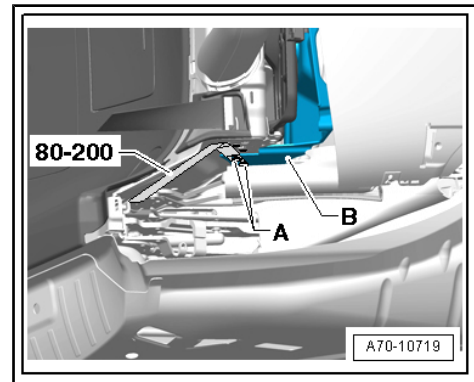
### Note

Take care not to drop fasteners -A-.

- Unclip remaining fasteners and take out convertible roof compartment trim (front) -B-.

### Installing

Install in reverse order of removal.



## 1.6 Detaching tensioner at main mounting

### Detaching tensioner

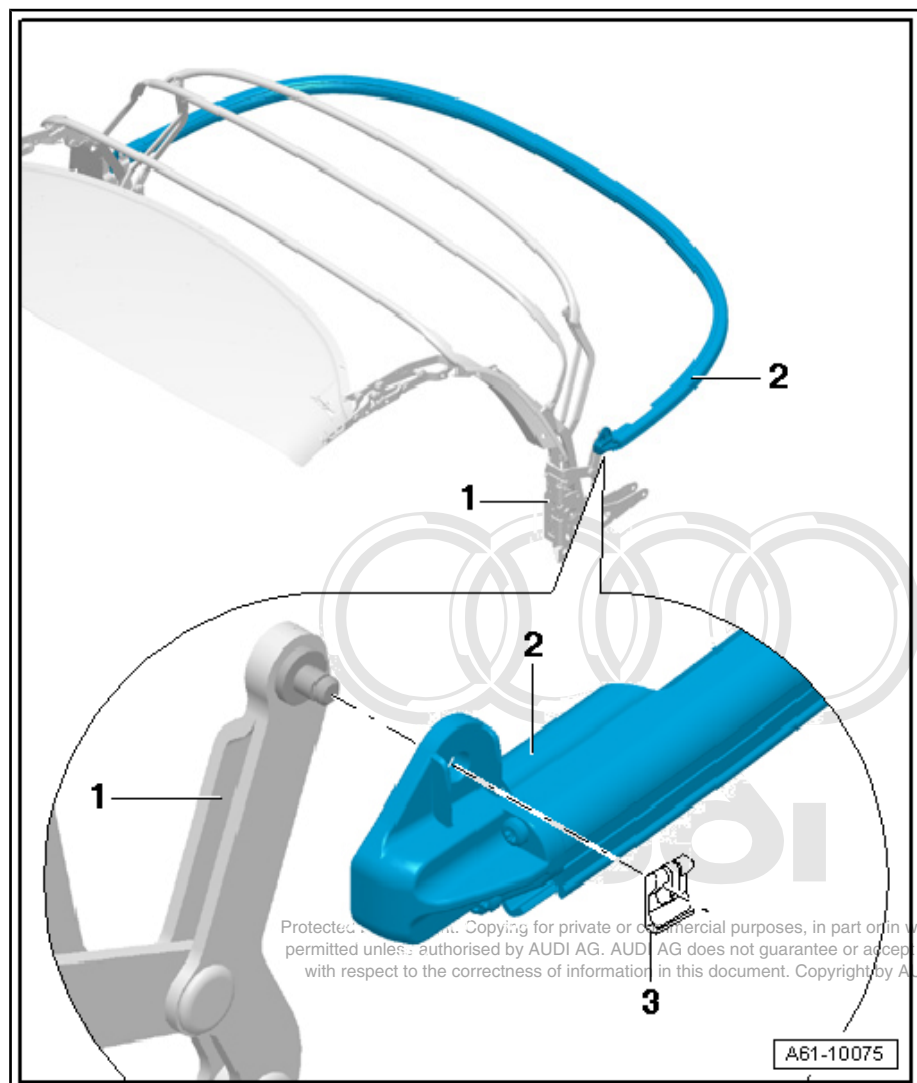
#### 1 - Main mounting

#### 2 - Tensioner

- ❑ To detach, press retaining clip off side of pin and pull off tensioner towards the side

#### 3 - Retaining clip

- ❑ To install, press on to stop from the side



## 1.7 Adjusting convertible roof

### Opening dimension for convertible roof



#### Note

- ◆ *To adjust the convertible roof correctly, observe opening dimension of  $35 \pm 5$  mm.*
- ◆ *From the opened position, operate the switch and close the convertible roof as far as it takes for the hydraulic pump to be switched off.*
- ◆ *The front side of the main mounting for the convertible roof must be parallel to the front panel of the convertible roof compartment.*
- ◆ *The distance between the cross member of the roof frame and the front cross strut should now be  $35 \pm 5$  mm.*
- ◆ *If this distance is not  $35 \pm 5$  mm, check that the main mounting is parallel to the front panel of the convertible roof compartment and adjust the position of the main mounting if necessary.*
- ◆ *If the opening dimension is still not within the specified range of tolerance after these measures have been performed, the opening dimension can be adjusted via the adjuster screw on the main mounting [⇒ page 108](#).*

### Adjustment dimensions at main mounting

### 1 - Screw

- ❑ Before removing convertible roof, screw in screw for adjusting height of convertible roof as far as stop on bottom panel of convertible roof compartment  
⇒ [page 109](#)

### 2 - Main mounting for convertible roof

- ❑ Before removing convertible roof, measure distance -a- from main mounting to front panel of convertible roof compartment
- ❑ Same distance (parallel) must be obtained when installing convertible roof

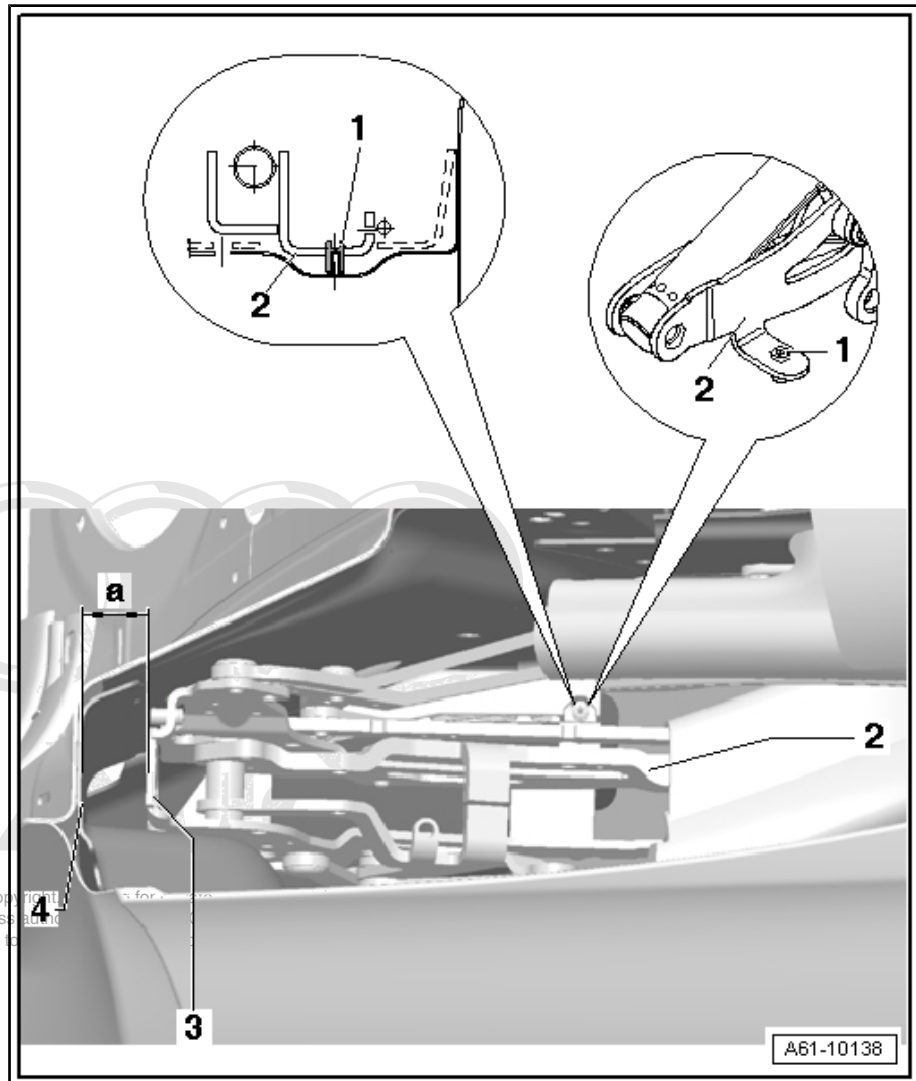


Note

### 3 - Front side of main mounting

### 4 - Front panel of convertible roof compartment

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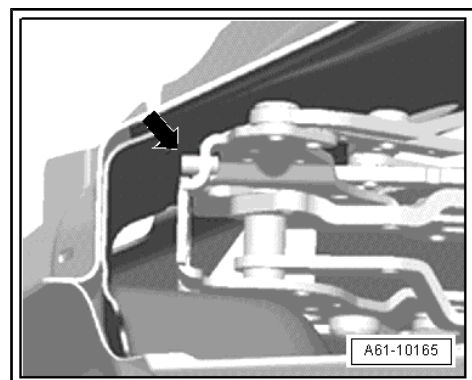
### Adjuster screw for opening dimension



Note

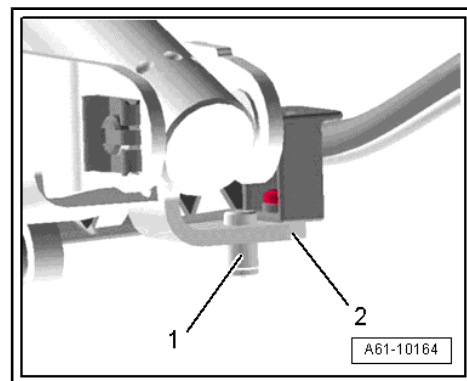
*Should the opening dimension not be within the specified range of tolerance even if the correct adjustments have been made at the main mounting, it can be adjusted additionally via the adjuster screw -arrow- at the main mounting.*

- Turn the adjuster screw in anti-clockwise direction to reduce the opening dimension.
- Turn the adjuster screw in clockwise direction to increase the opening dimension.



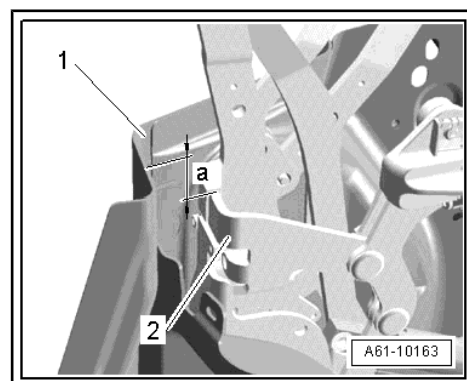
### Screw for adjusting height of convertible roof

- Before removing convertible roof, screw for adjusting height of convertible roof -1- at bottom of main mounting -2- must be unscrewed until it touches bottom panel of convertible roof compartment.



### Height adjustment at main mounting

- When installing, main mounting must be fitted with the distance -a- = 77 mm (front panel of convertible roof to top edge of front side of main mounting) for pre-adjusting.



### Gap widths on convertible roof

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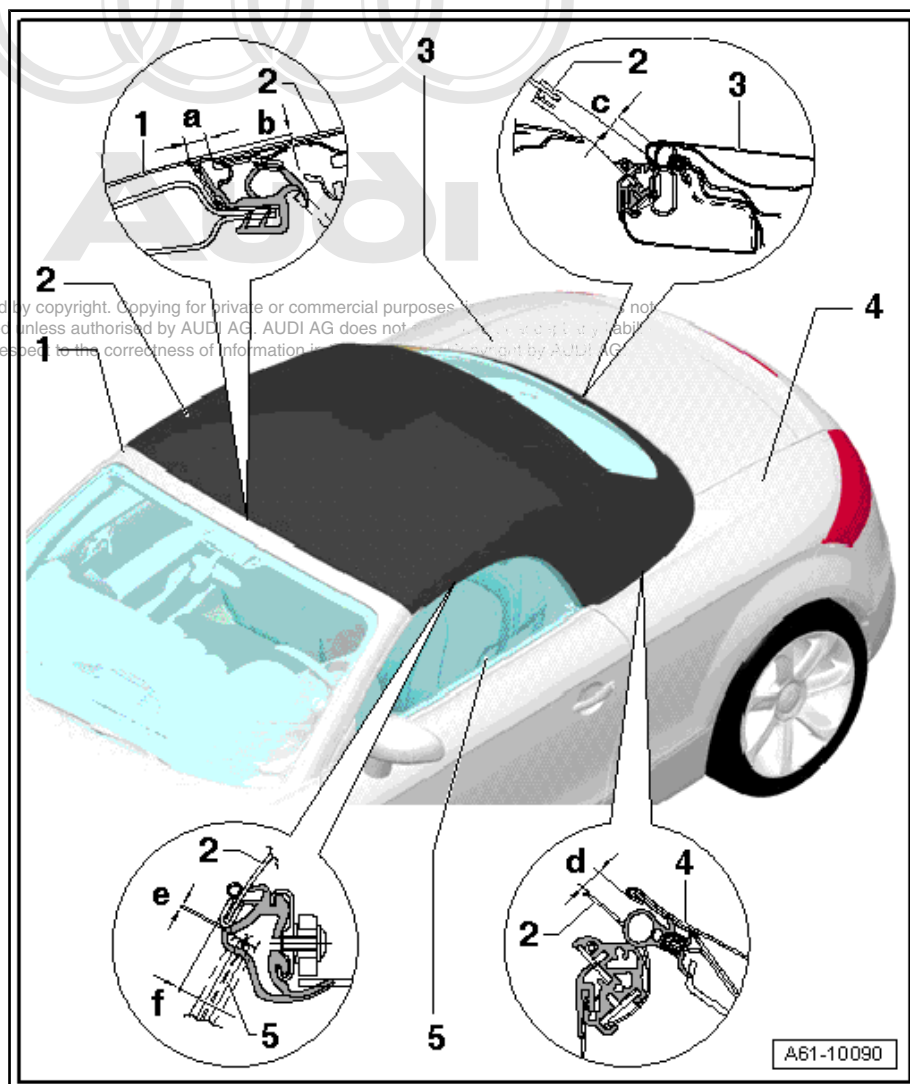


#### Note

- ◆ The gap widths are adjusted by moving the main mounting
- ◆ Dimension -c- is measured from front edge of rear lid.
- ◆ Dimension -d- is measured from side panel at main mounting.
- ◆ Dimension -f- can also be set by fitting shims at guide rail for seals (top) ⇒ [page 114](#).
- ◆ Dimension -a- = 7 mm
- ◆ Dimension -b- = 1.5 mm
- ◆ Dimension -b- can be adjusted by inserting washers between cross strut (front) and convertible roof lock or removing them.
- ◆ Dimension -c- = 14 mm
- ◆ Dimension -d- = 4.5 mm
- ◆ Dimension -e- = 12 mm
- ◆ Dimension -f- = 1.5 mm

- 1 - Body / windscreen cross member
- 2 - Convertible roof
- 3 - Body
- 4 - Side panel
- 5 - Door window

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## Removing pump housing



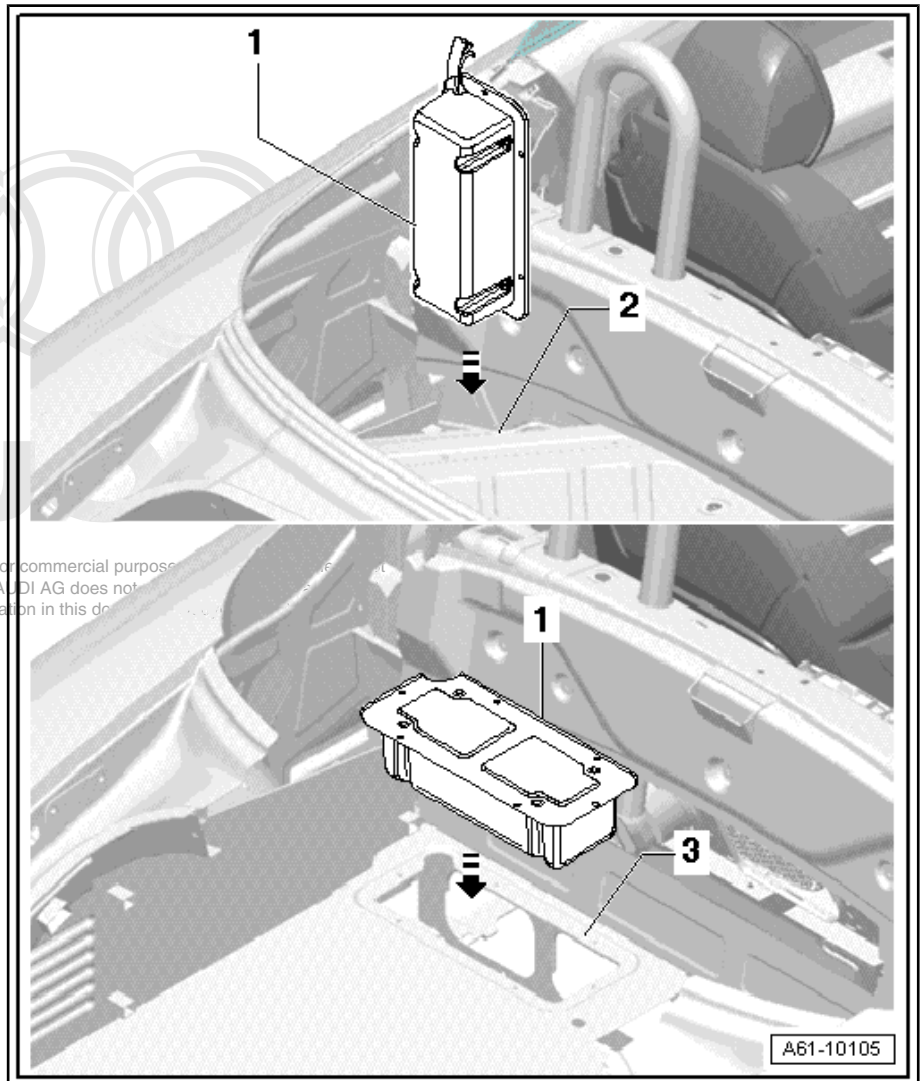
### 1 - Pump housing

- ❑ Unbolt pump housing from cross member on body -3-
- ❑ Pull out pump housing from above through cut-out in bottom panel of convertible roof compartment as illustrated
- ❑ Installing pump housing ⇒ [page 139](#)

### 2 - Bottom panel of convertible roof compartment

### 3 - Cross member on body

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### Removing tensioning strap for tensioner

## 1 - Convertible roof frame

### 2 - Tensioning strap for tensioner

- ❑ Before removing convertible roof, unscrew bolts -6-, release tensioning strap at retaining lugs and pull tensioning strap into convertible roof compartment
- ❑ If tensioning strap has to be renewed, also remove bolts from tensioner and detach retaining strip -4- from tensioner together with tensioning strap
- ❑ When installing, first guide into convertible roof compartment from underneath and then engage at retaining lugs (rear)

### 3 - Tensioner

- ❑ Removing ⇒ [page 106](#)

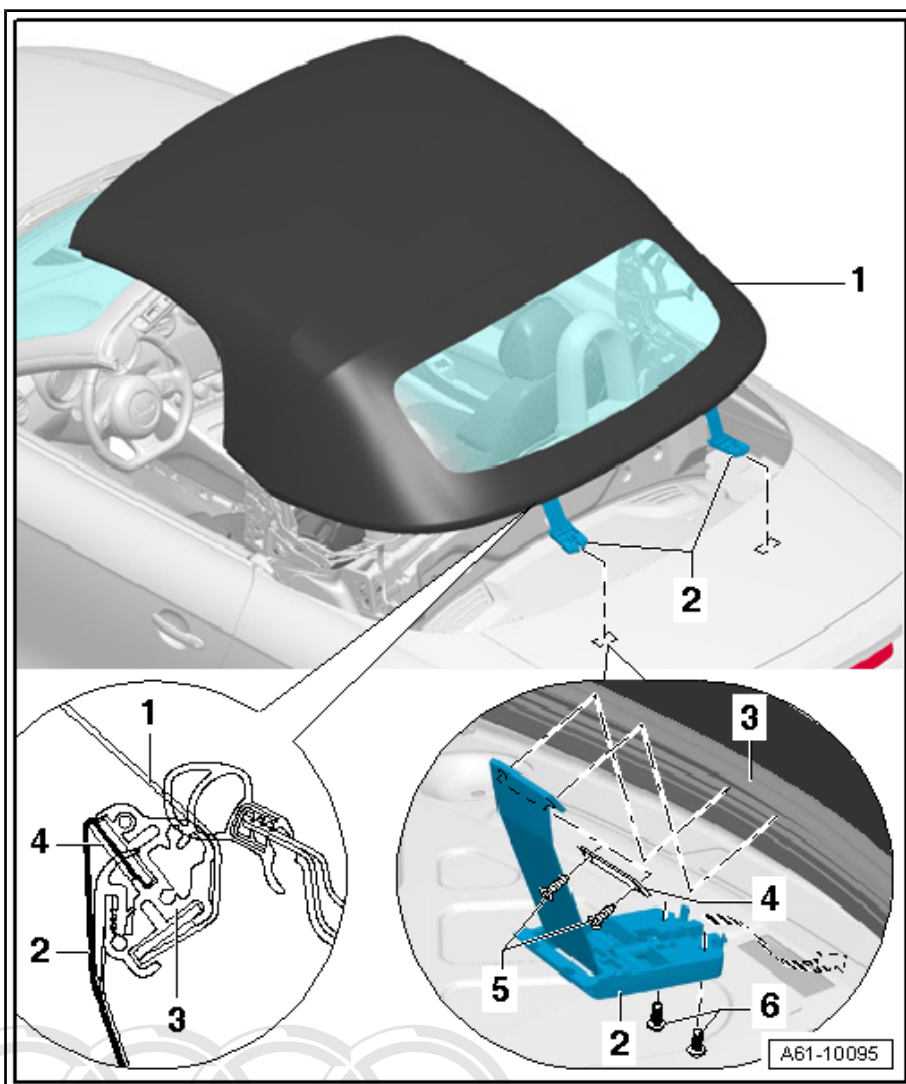
### 4 - Retaining strip

### 5 - Bolt

- ❑ 2 Nm

### 6 - Bolt

- ❑ 2 Nm



# Audi

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## 1.8 Removing and installing seals for convertible roof

### 1 - Washers

- Fit if required for lateral adjustment of seals

### 2 - Bolt

- 3 Nm

### 3 - Guide rail (rear)

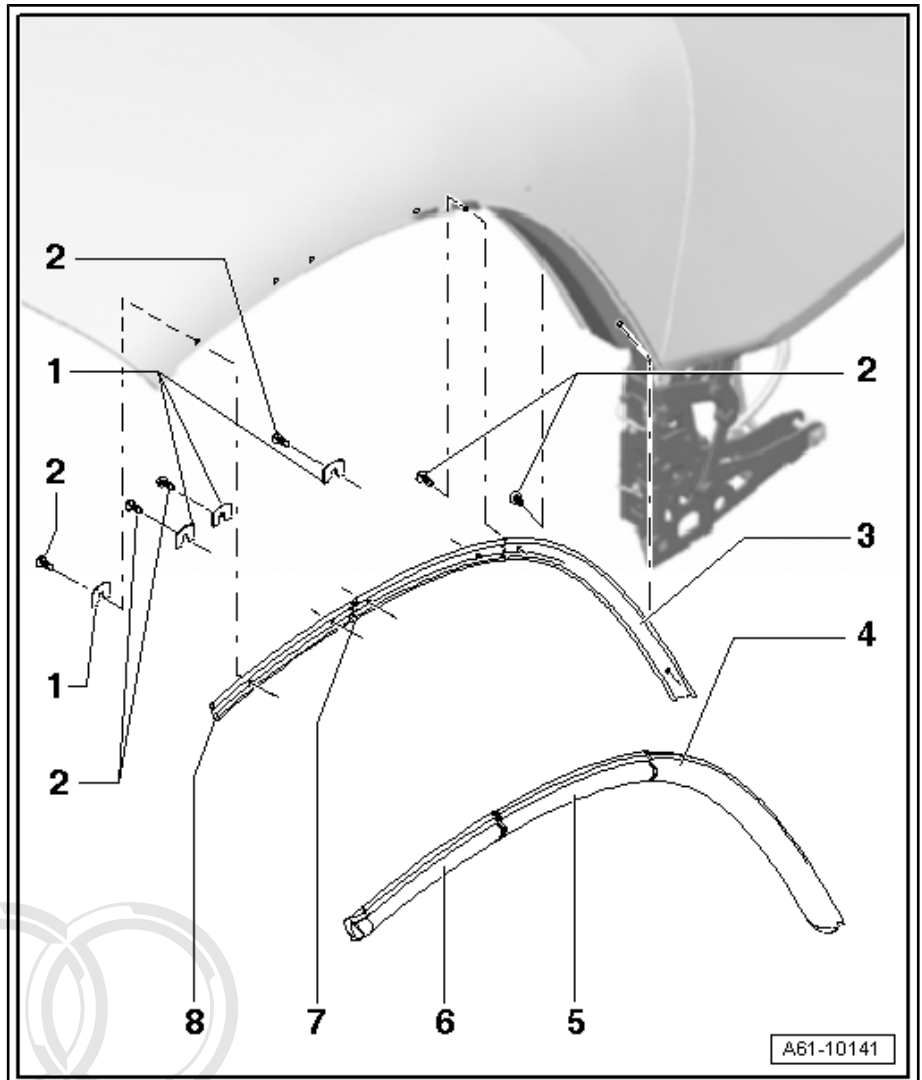
### 4 - Seal (rear)

### 5 - Seal (centre) for roof guide element "2"

### 6 - Seal (front) for roof guide element "1"

### 7 - Guide rail (centre) for roof guide element "2"

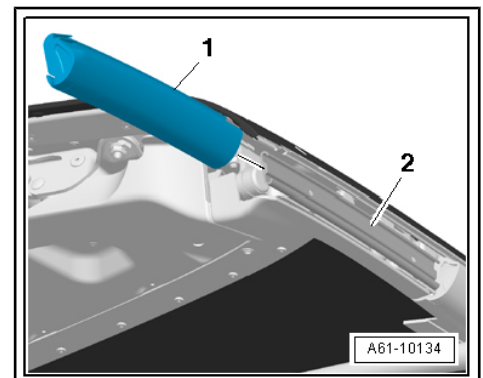
### 8 - Guide rail (front) for roof guide element "1"



### Removing seal

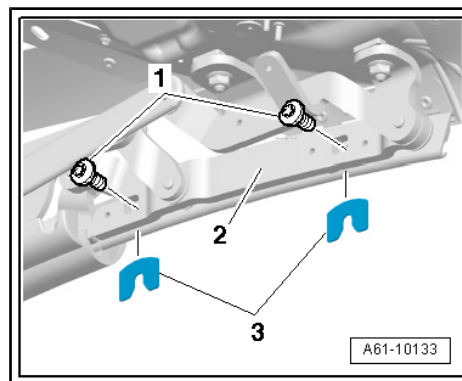
- Seals slide into guide rails.
- Pull out of guide rails to remove.
- To facilitate assembly, lubricate seal -1- if necessary with soap solution or similar and slide onto guide rail -2-.

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## Adjusting seal

- For lateral adjustment, fit washers -3- between guide rails and roof guide element -2- to match setting of side window.
- Tighten bolts -1- on guide rails to specified torque.



## 1.9 Removing and installing flap for convertible roof frame

### 1 - Trim panel

- ☐ Is clipped onto flap
- ☐ Releasing flap  
⇒ [page 115](#)

### 2 - Flap for convertible roof frame

- ☐ To adjust, slacken bolts -4- on body and align flap with contour of convertible roof
- ☐ Height adjustment relative to side panel  
⇒ [page 115](#)
- ☐ Gap widths  
⇒ [page 115](#)

### 3 - Push rod



#### Caution

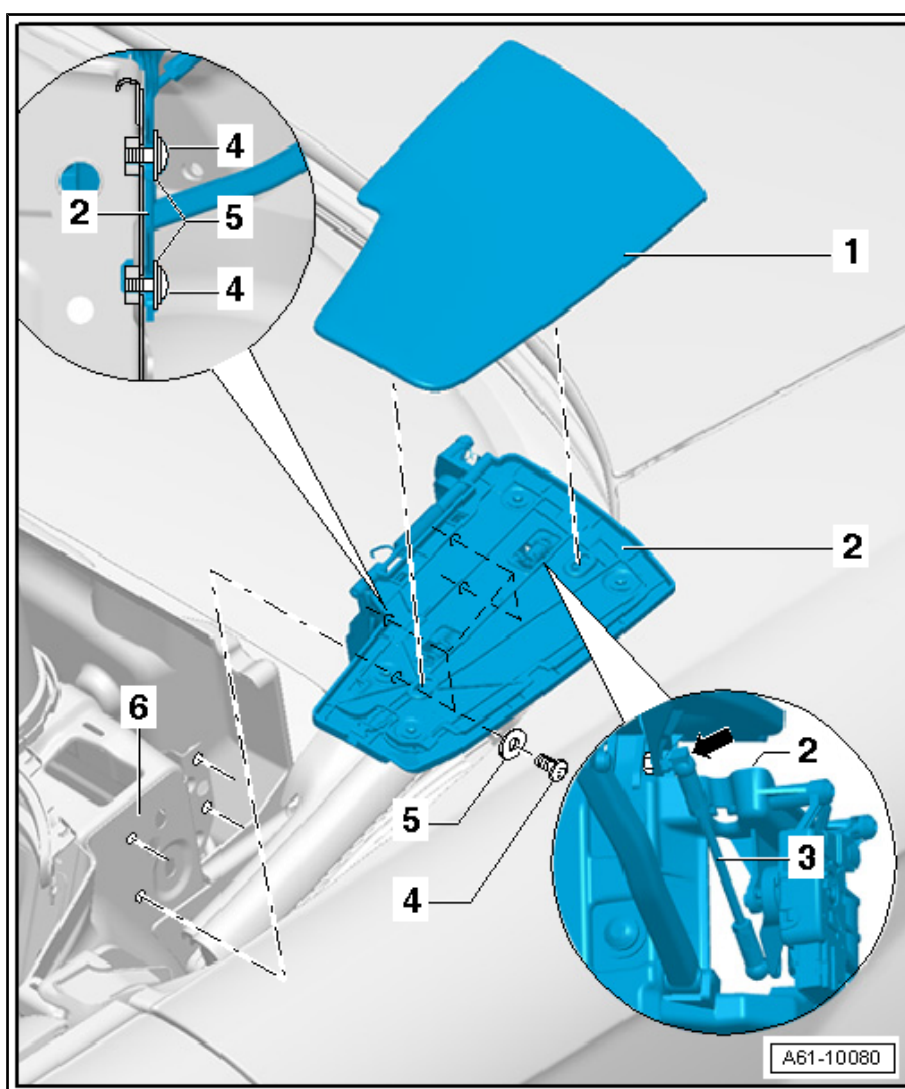
*If the power-operated convertible roof has to be operated manually, the push rod must first be disengaged from the top ball stud -arrow- (pull off to the side) and the valve screw on the hydraulic pump must be opened  
⇒ [page 140](#)*

### 4 - Bolt

- ☐ 5 Nm

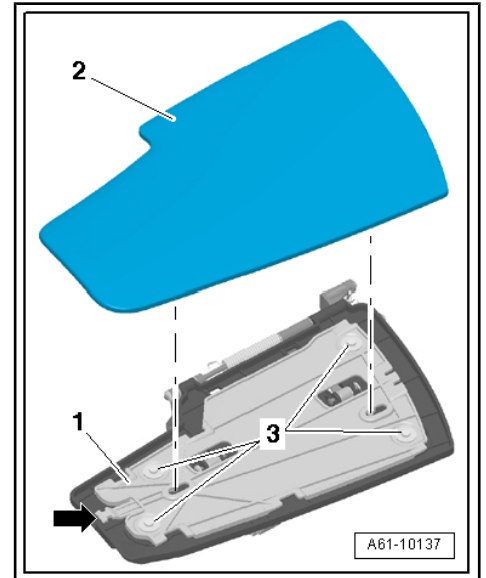
### 5 - Washer

### 6 - Body flange



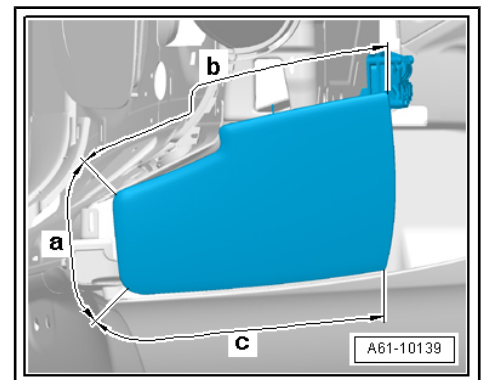
### Detaching trim panel for flap

- Using a small screwdriver or similar, press catch -arrow- downwards and slide trim panel -2- off flap -1- to the rear.
- For lateral adjustment of flap, loosen bolts -3- and align body of flap -1- to give required panel gaps.



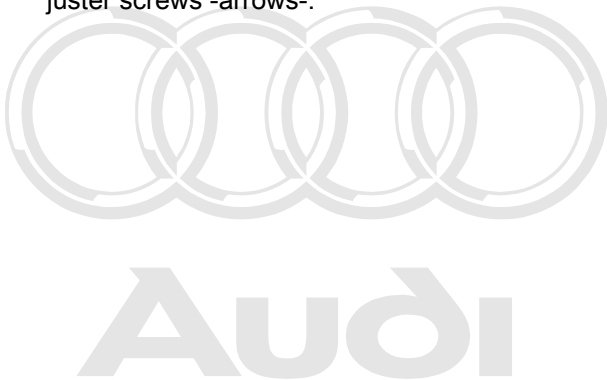
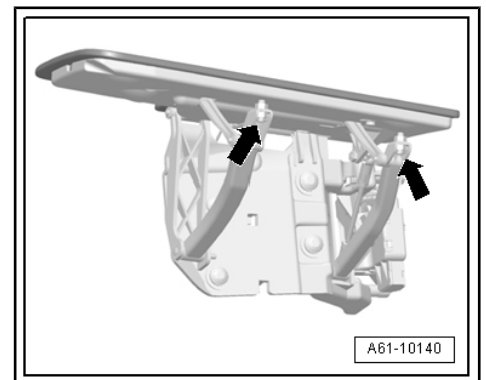
### Panel gaps for flap

- ◆ Dimension "a" = 3.6 mm
- ◆ Dimension "b" = 3.6 mm
- ◆ Dimension "c" = 3.6 mm



### Height adjustment relative to side panel

- Height relative to side panel can be adjusted by means of adjuster screws -arrows-.



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## 1.10 Removing and installing trim for convertible roof storage compartment

### 1 - Trim (rear) for convertible roof storage compartment

- To remove, first detach from tensioner all round by pulling upwards and insert between outer panel and plastic trim.



#### Caution

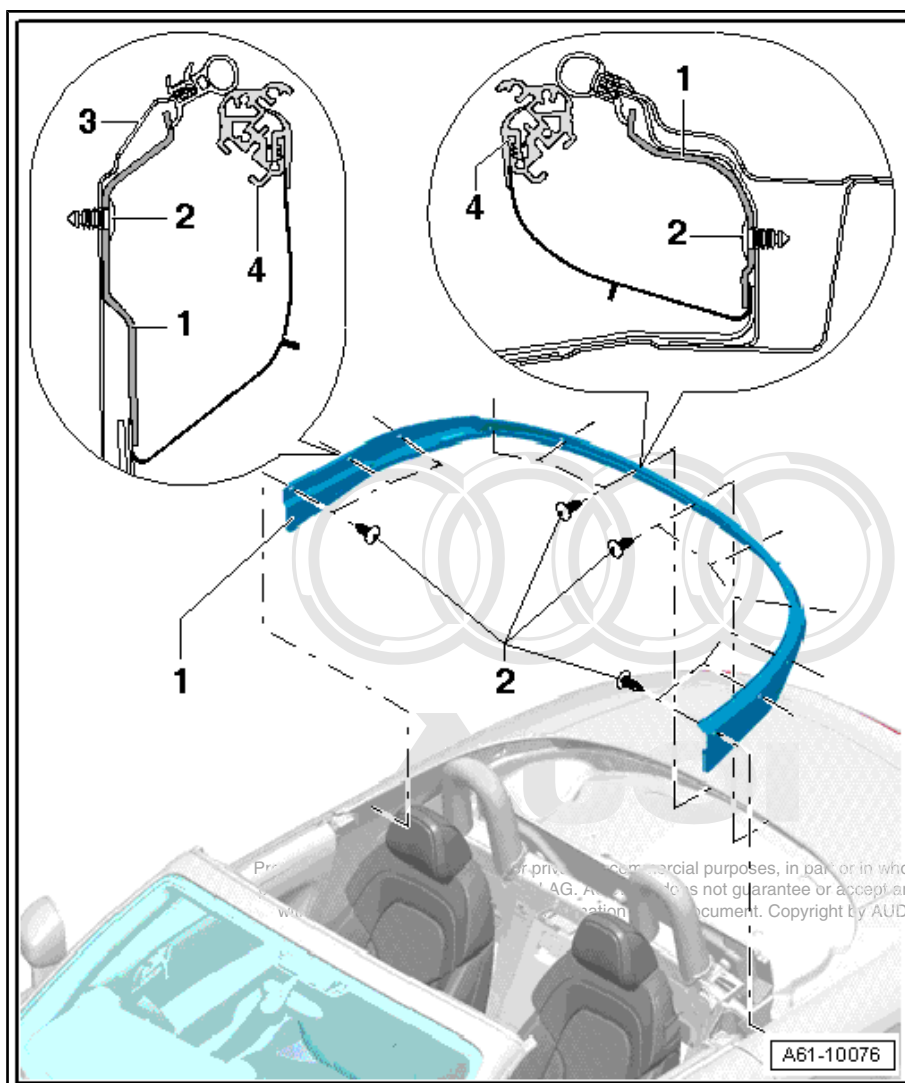
*If trim is not inserted, the convertible roof compartment might be damaged.*

### 2 - Clip

- 12x

### 3 - Body flange

### 4 - Tensioner



## Removing water drip tray



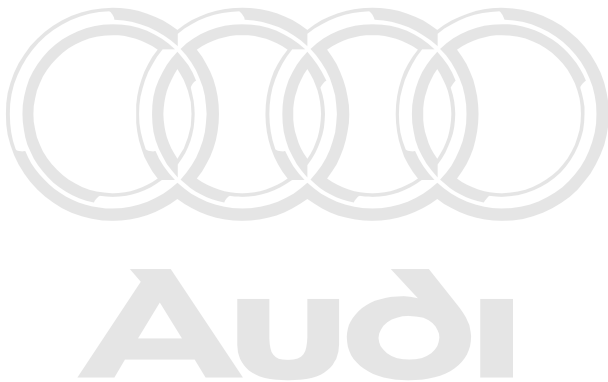
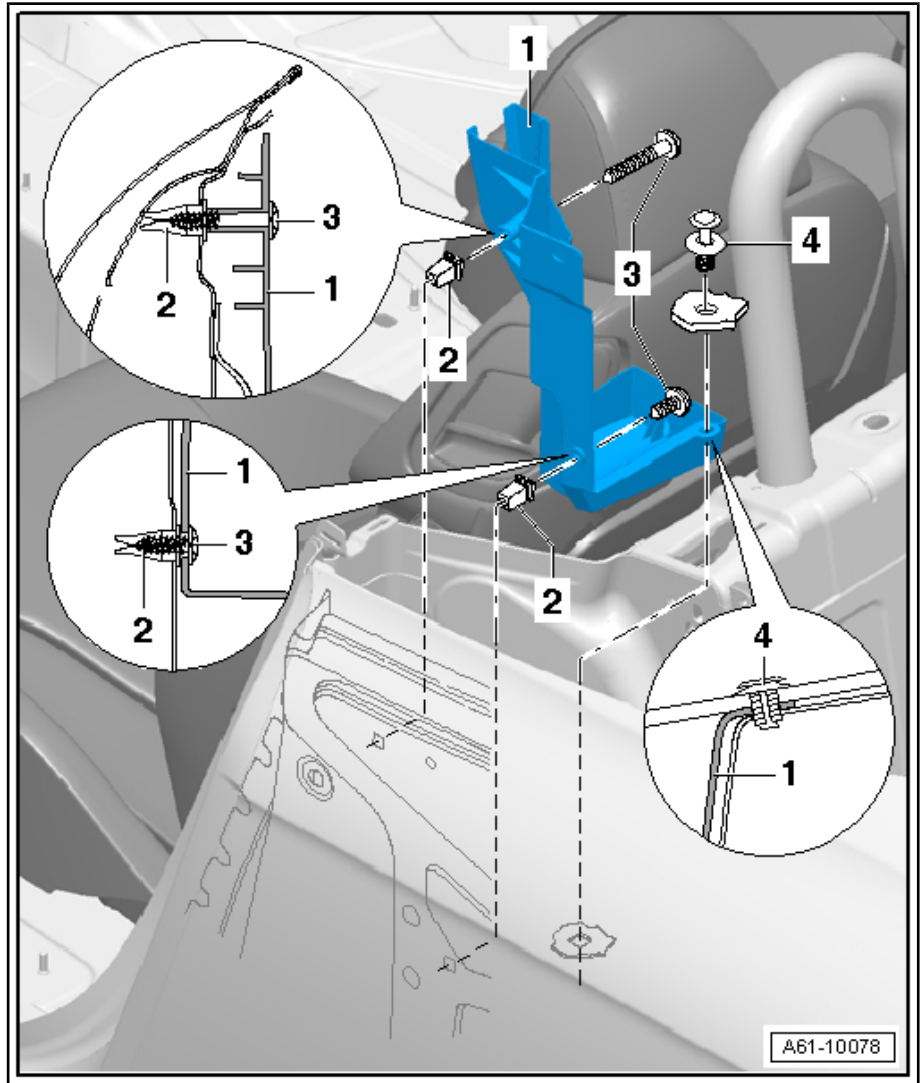
1 - Water drip tray

2 - Clip

3 - Bolt

□ 2 Nm

4 - Fastener



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## 1.11 Removing and installing locking mechanism for convertible roof

### Removing trim cover (front)

1 - Trim panel (rear) for roof guide element "2" (right-side)

2 - Trim panel (front) for roof guide element "1" (right-side)

3 - Bolt

□ 2.5 Nm

4 - Trim cover (front)

□ Remove bolts -8- on trim cover (front)

Only on vehicles with manually operated convertible roof

□ Remove handle for locking mechanism  
⇒ [page 121](#)

□ Unclip cover -9-.

□ Pull cover forwards out of catches

5 - Trim panel (front) for roof guide element "1" (left-side)

6 - Trim panel (rear) for roof guide element "2" (left-side)

7 - Bolt

□ 2.5 Nm

8 - Bolt

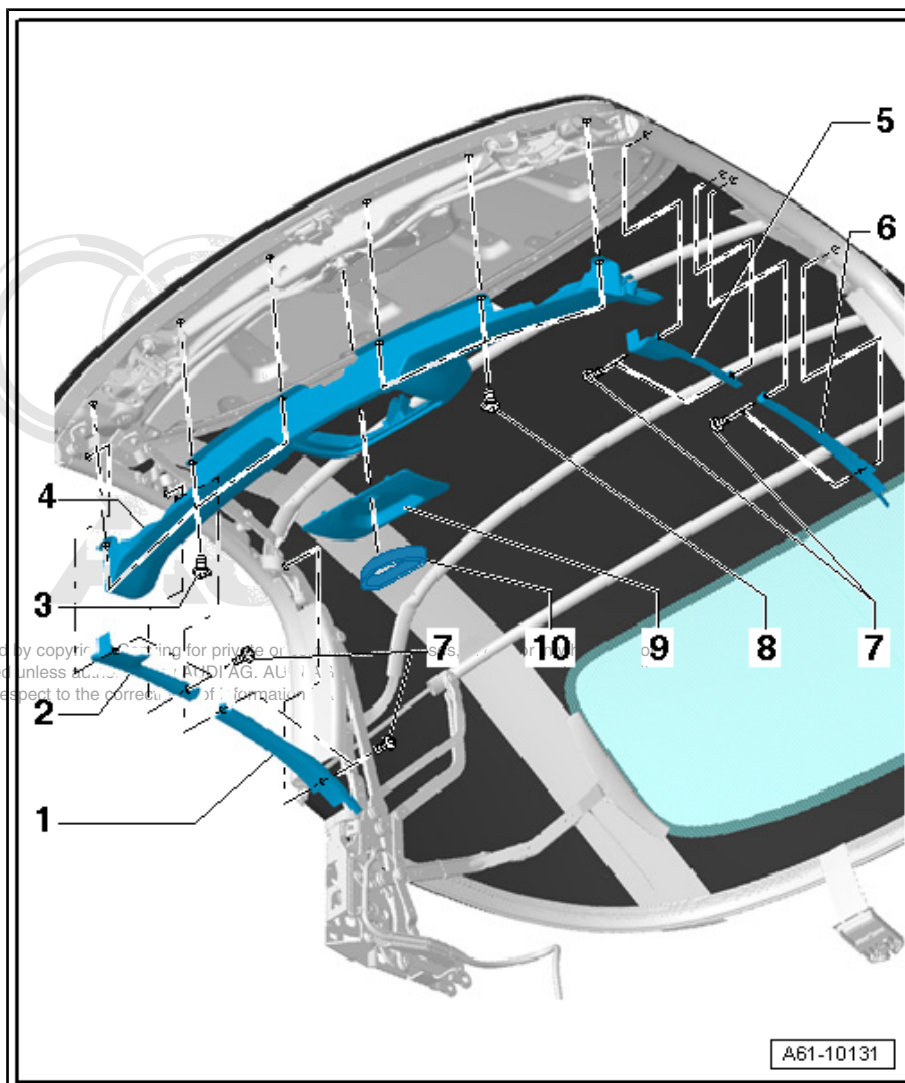
□ 2.5 Nm

9 - Cover

□ Only on vehicles with manually operated convertible roof

10 - Handle

□ Only for manual locking mechanism



### Removing locking mechanism for convertible roof

– Trim cover (front) removed

**1 - Locking element**

**2 - Nut**

□ 9 Nm

**3 - Convertible roof lock**

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

**4 - Convertible roof**

**5 - Bolt**

□ 9 Nm

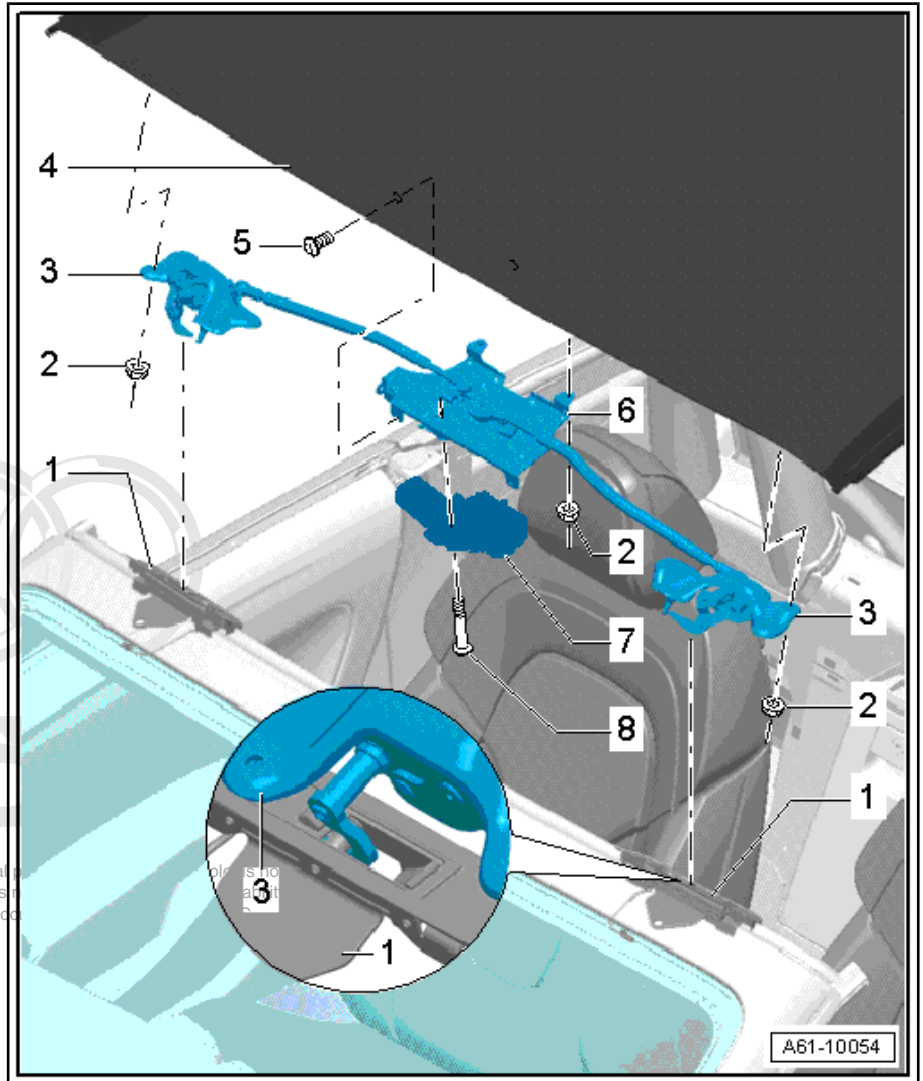
**6 - Convertible roof locking mechanism**

**7 - Drive unit for convertible roof locking mechanism**

□ Removing ⇒ [page 120](#)

**8 - Bolt**

□ 10 Nm



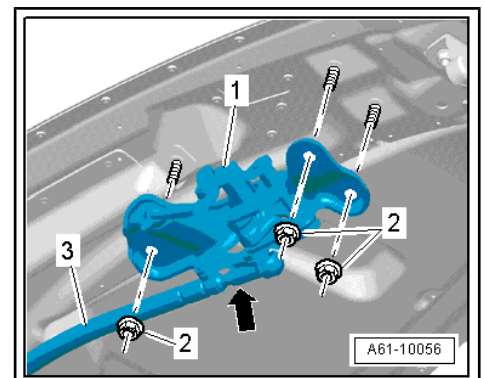
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**Removing convertible roof lock**



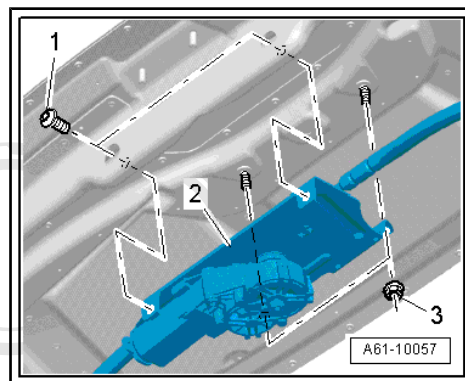
**Note**

- ◆ *There are washers with different inner diameters between the convertible roof lock and the cross strut (front).*
- ◆ *The washer that is closest to the cross strut (front) must be the one with the large inner diameter.*
- Trim panel (front) removed.
- Unscrew nuts and pull off convertible roof lock together with linkage



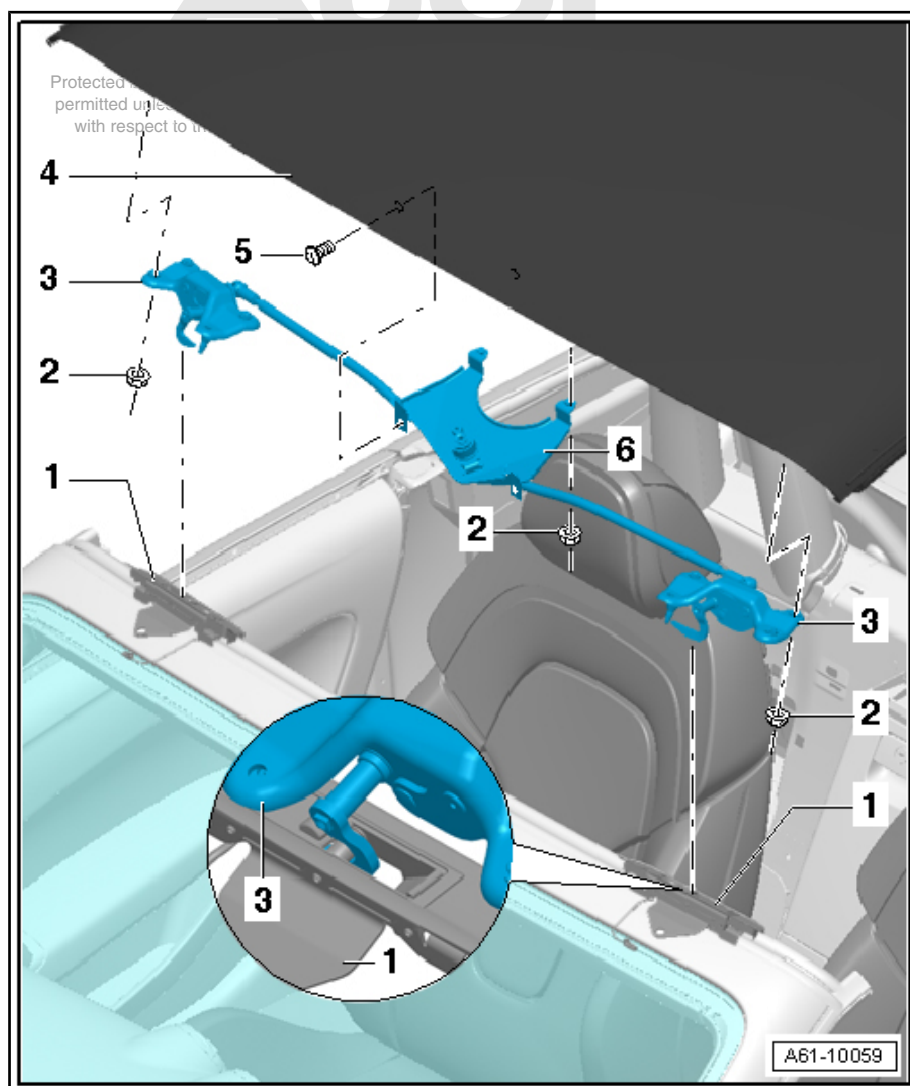
### Removing drive unit for convertible roof locking mechanism

- Trim for roof cross member removed
- Remove bolts -1- and nuts -3- on convertible roof locking mechanism -2-.



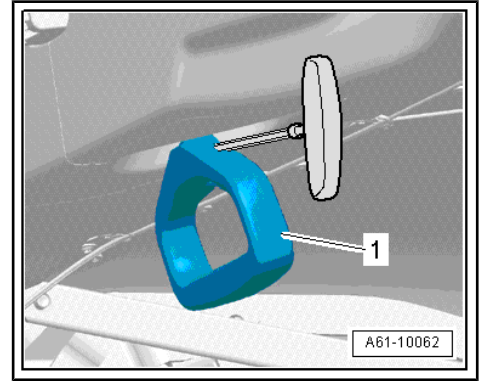
### Manually operated convertible roof

- 1 - Locking element
- 2 - Nut
  - ☐ 9 Nm
- 3 - Convertible roof lock
- 4 - Convertible roof
- 5 - Bolt
  - ☐ 9 Nm
- 6 - Convertible roof locking mechanism
  - ☐ Trim cover (front) removed

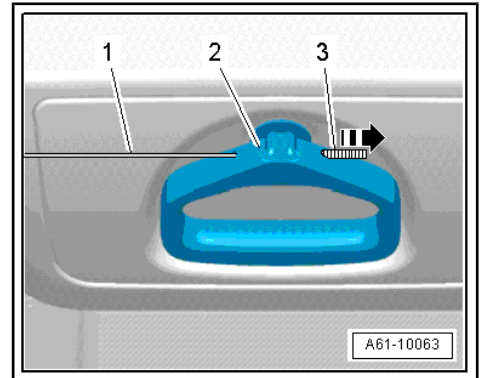


### Removing handle for locking mechanism

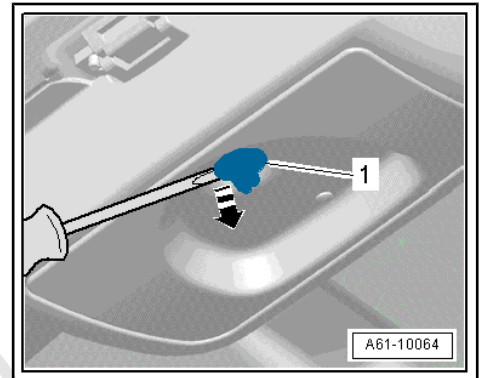
- Fold down handle, turn by approx. 90° and unscrew bolt.
- Using a thin piece of wire -1-, push bolt -3- sideways out of handle -2-.



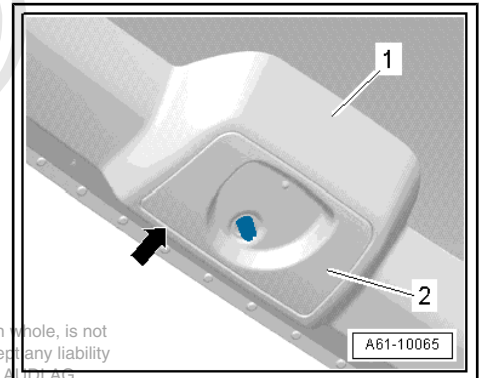
- When installing, tighten bolt to 2 Nm.



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



- Unclip front edge -arrow- of cover -2- from trim -1-.



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### Convertible roof locking mechanism in convertible roof compartment - exploded view



#### Note

*Only on vehicles with manually operated convertible roof*

**1 - Bowden cable**

**2 - Cable retainer**

- ❑ Clip cable retainer onto outer side of mount for windbreak

**3 - Clip**

- ❑ Clip into top of end plate as illustrated

**4 - Front panel of convertible roof compartment**

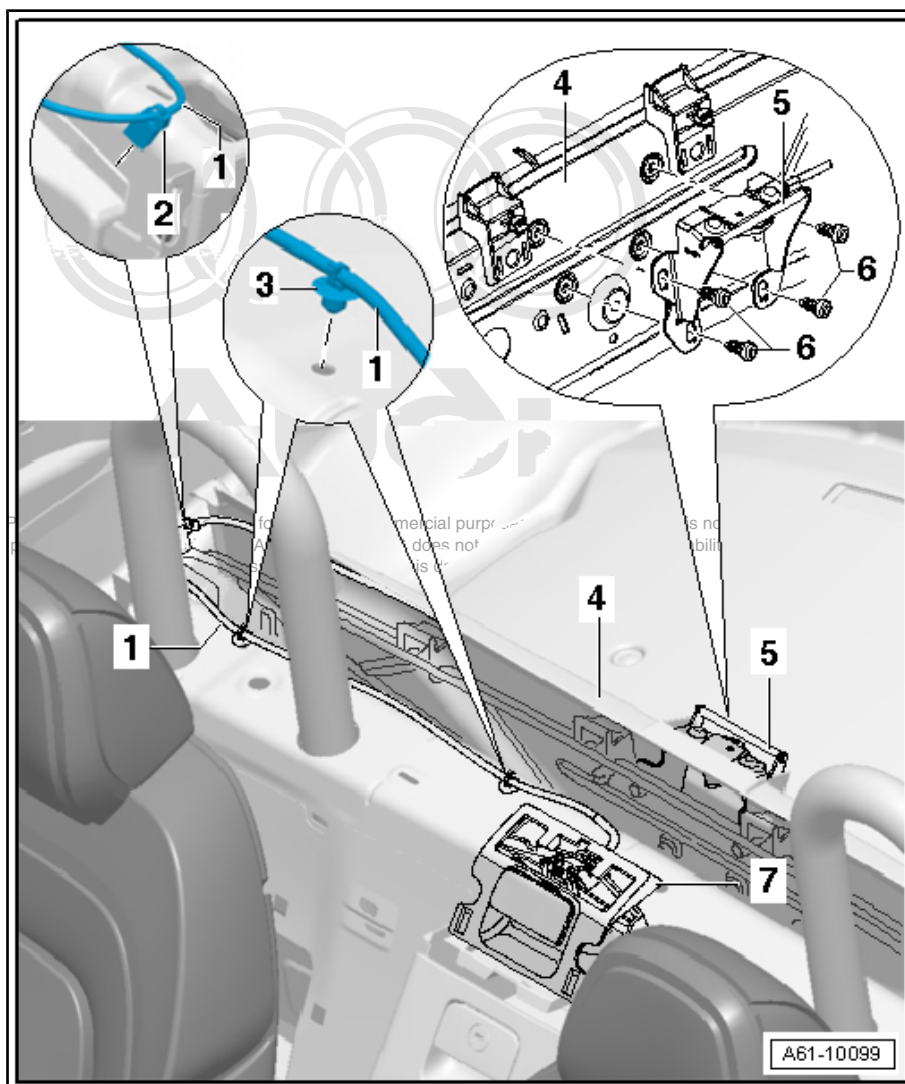
**5 - Bracket for convertible roof locking mechanism**

- ❑ Height adjustment  
[⇒ page 123](#)

**6 - Bolts**

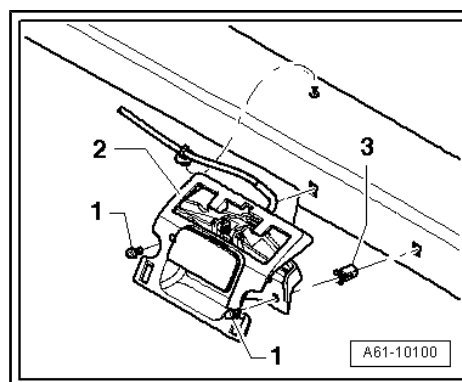
- ❑ 8 Nm

**7 - Handle for convertible roof locking mechanism**



**Handle for convertible roof locking mechanism**

- Secure handle -2- with bolts -1- (8 Nm).
- Push in clip -3-.



**Height adjustment for convertible roof locking mechanism**



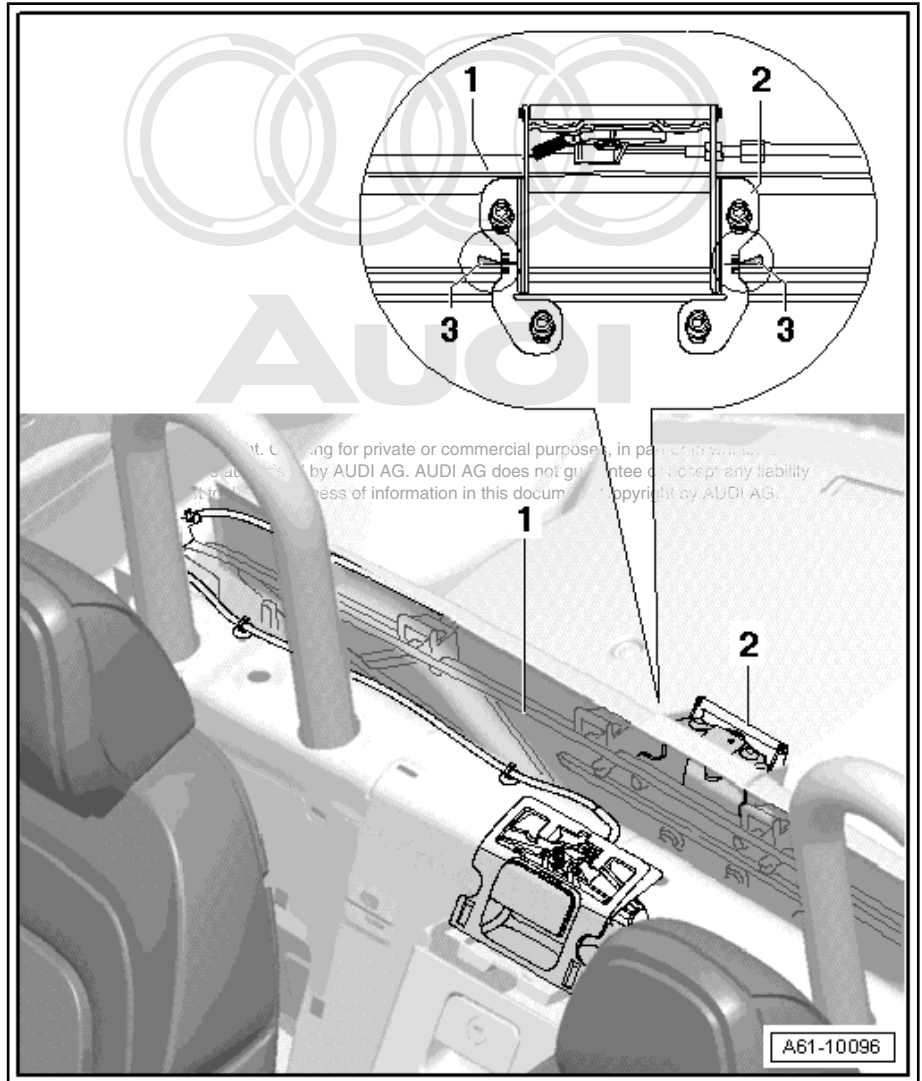
### 1 - Bowden cable

### 2 - Convertible roof locking mechanism

- ❑ Convertible roof locking mechanism must be adjusted so that convertible roof is 4 mm below convertible roof compartment trim (front)

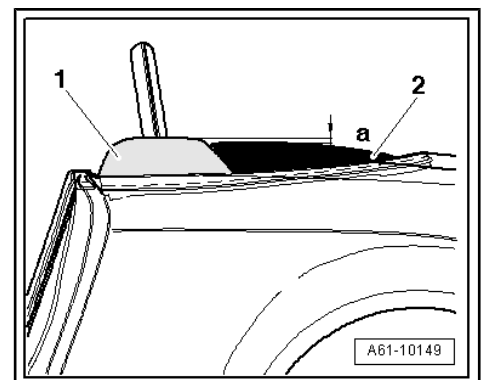
### 3 - Markings

- ❑ To adjust height, set locking mechanism according to markings



### Height adjustment for front cross strut

- When the convertible roof is correctly adjusted the front cross strut should lock into position 4 mm (dimension -a-) below the front trim of the convertible roof compartment.



### Removing and installing locking element

### 1 - Locking element

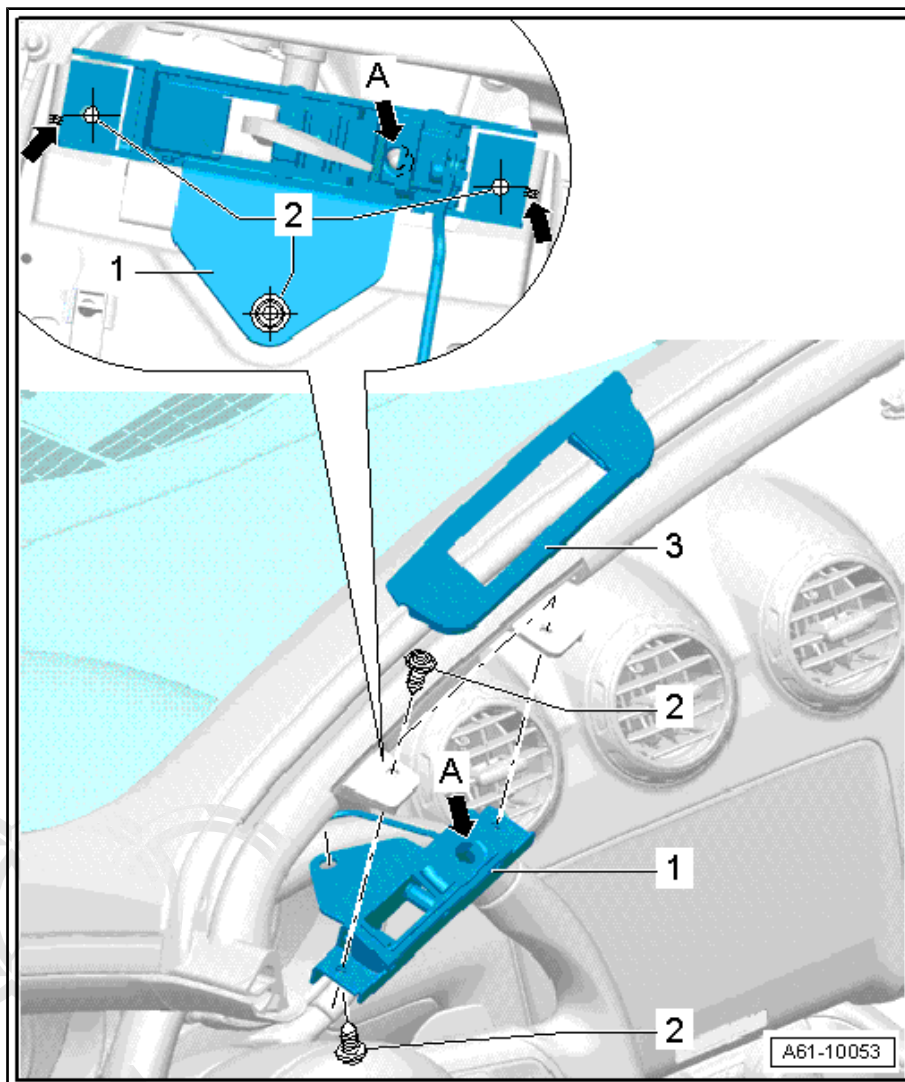
- ☐ Remove cover for wind-screen cross member ⇒ Rep. Gr. 70
- ☐ To remove, unplug electrical connector and remove bolts.

### 2 - Bolt

- ☐ 15 Nm

### 3 - Cover for locking element

- ☐ Unclip to remove

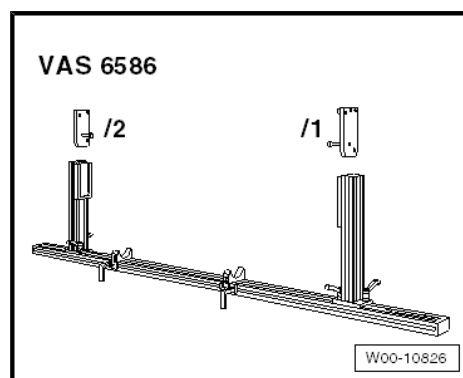


## 1.12 Removing and installing convertible roof cover - exploded view

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### Special tools and workshop equipment required

- ◆ Convertible roof clamping device -VAS 6586-



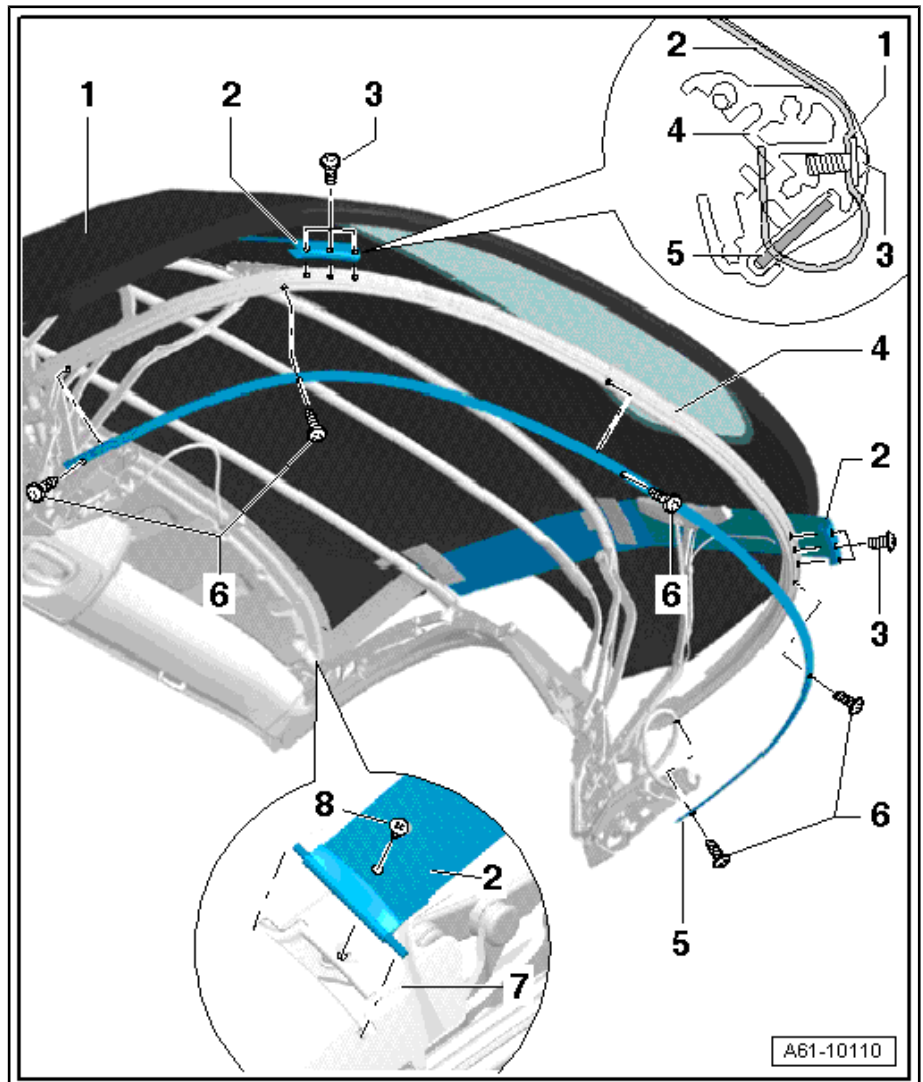
- ◆ Scissor-type assembly platform -VAS 6131 A-



**Note**

- ◆ The convertible roof clamping device -VAS 6586- can be secured to the scissor-type assembly platform -VAS 6131 A- or on a workbench via the holes in the cross bar.
- ◆ For the convertible roof to be in the correct installation position, it must be secured to the mounting plates via the corresponding holes in the main mountings and the threaded holes "A, B, C, D and E" in the mounting plates ⇒ [page 126](#).
- ◆ Before you do so, loosely secure the mounting plates to the main mountings with bolts.
- ◆ Insert the convertible roof together with the mounting plates in the convertible roof clamping device VAS 6586 and tighten the bolts at the main mountings.
- ◆ To make sure that the hydraulic pump functions correctly, put it into the half shells on the cross bar together with the reservoir and the hydraulic pump motor.

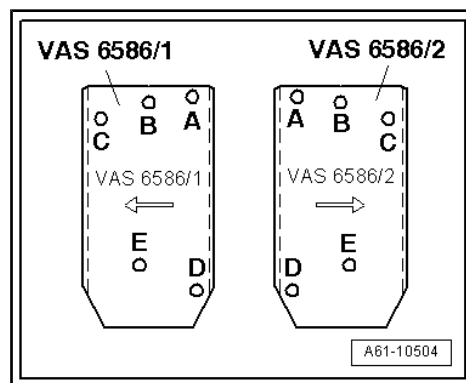
- 1 - Convertible roof cover
- 2 - Tensioning strap for cross strut
- 3 - Bolt  
□ 2.5 Nm
- 4 - Tensioner
- 5 - Retaining strip
- 6 - Bolt  
□ 3 Nm
- 7 - Front cross strut
- 8 - Bolt  
□ 1.5 Nm



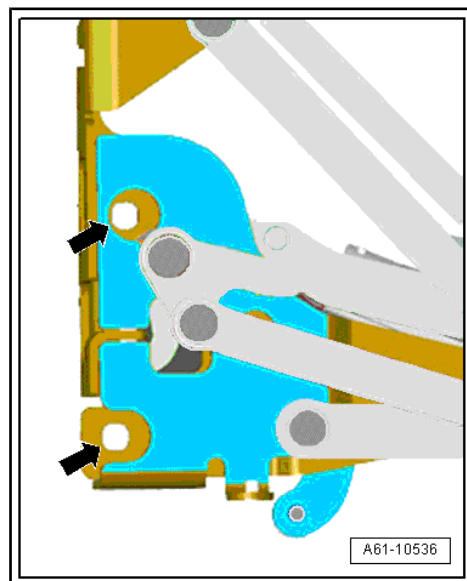
## Clamping convertible roof in convertible roof clamping device - VAS 6586-

### Note

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



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



## Components of convertible roof frame

### Note

*The following components are described in this section.*

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**1 - Cross strut "1"**

- ☐ Fixed cross strut

**2 - Cross strut "2"**

- ☐ Rotatable cross strut

**3 - Cross strut "3"**

- ☐ Cross strut with controlled movement

**4 - Guide element for rear window**

**5 - Tensioning strap for cross strut**

**6 - Tensioning strap for tensioner**

**7 - Tensioner**

**8 - Housing for hydraulic pump**

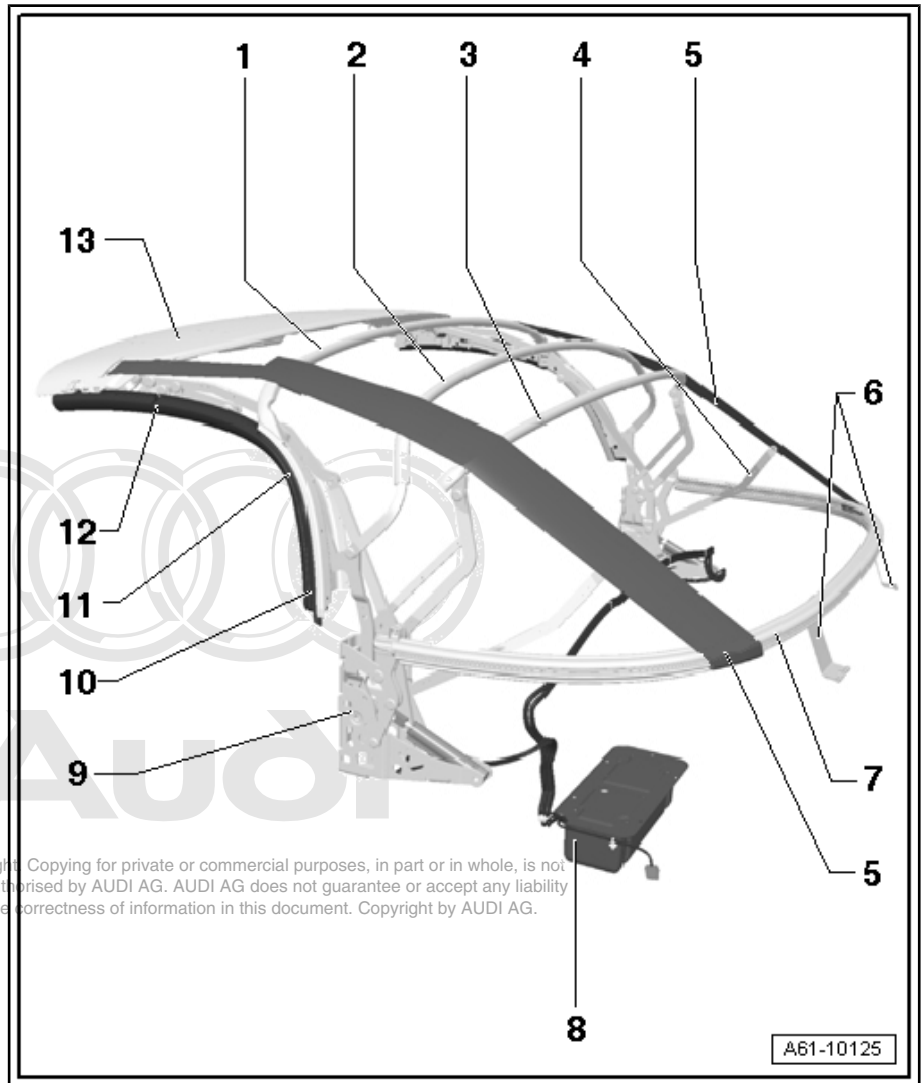
**9 - Main mounting**

**10 - Retaining bracket for guide rail (rear)**

**11 - Roof guide element "2"**

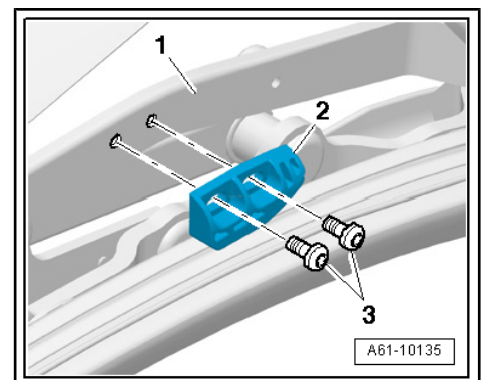
**12 - Roof guide element "1"**

**13 - Front cross strut**



**Stop piece for roof guide element**

- Secure stop piece -2- to roof guide element -1- with bolts -3- (2 Nm).



**Detaching tensioning cable for convertible roof cover**

# 1 - Front cross strut

# 2 - Tensioning cable

- ☐ Disengage tensioning cable at spring first
- ☐ Disengage tensioning cable at front cross strut and pull out of convertible roof cover to the rear

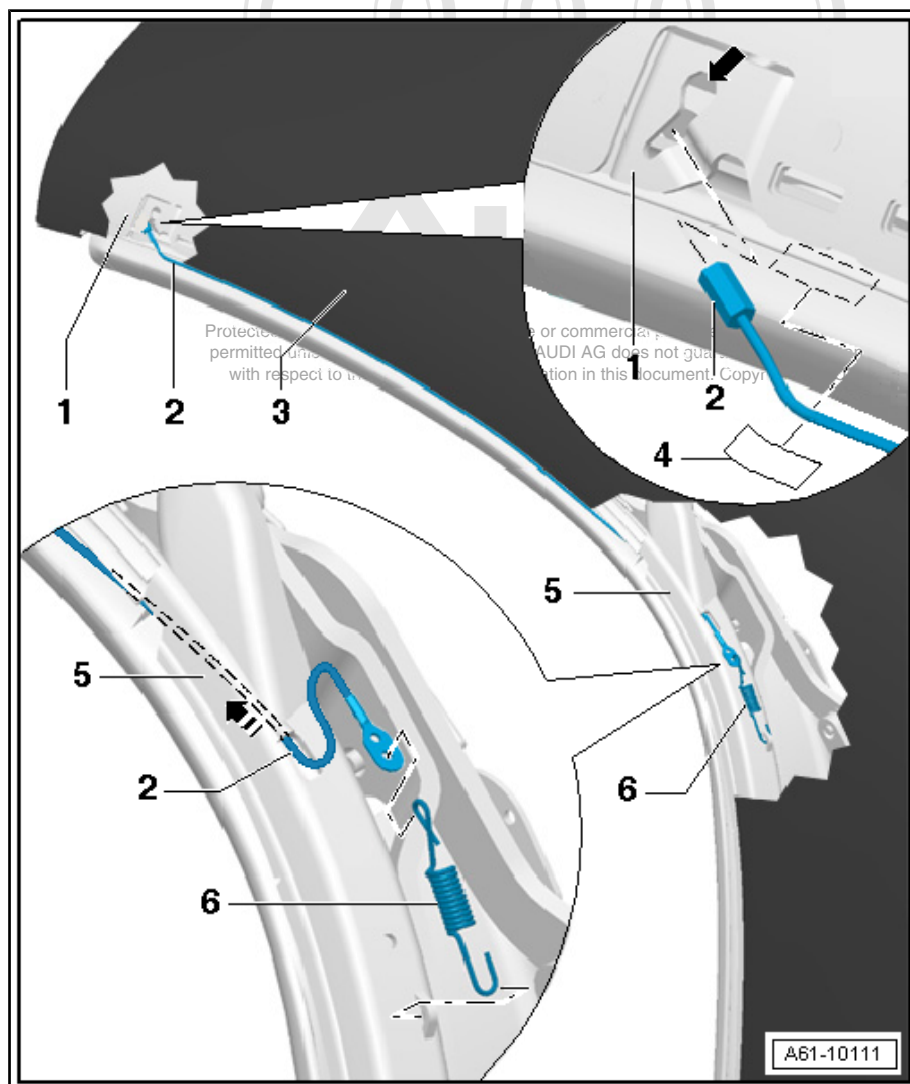
# 3 - Convertible roof cover

# 4 - Adhesive tape

- ☐ After installing tensioning cable, stick on adhesive tape as shown to provide noise insulation

# 5 - Main guide element

# 6 - Spring



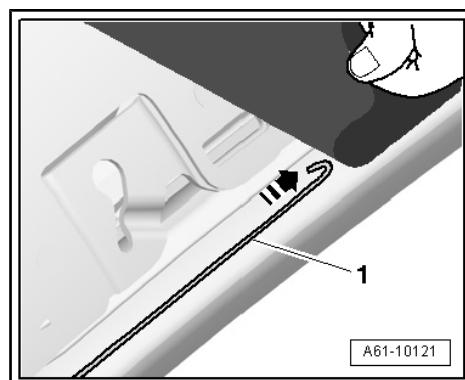
## Pulling in tensioning cable



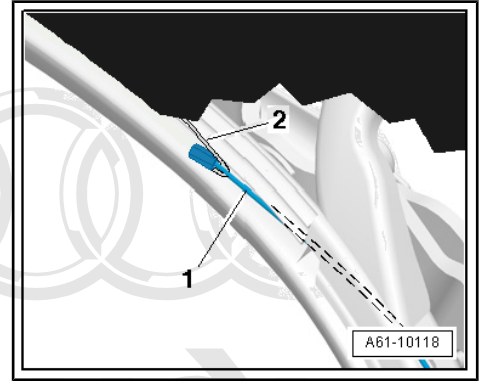
### Note

Using welding wire, make up a suitable hook to pull in the tensioning cable

- Slide hook -1- into pockets: on vehicles with manually operated roof at the top, on vehicles with power-operated roof between convertible roof cover and noise insulation, as indicated by arrow.

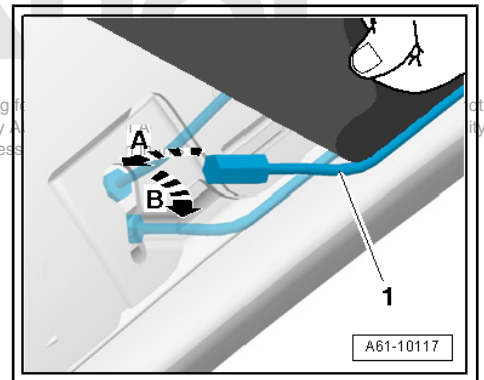


- Engage tensioning cable in hooks as shown and pull through to the front.



- Engage nipple of tensioning cable -1- in front cross strut.

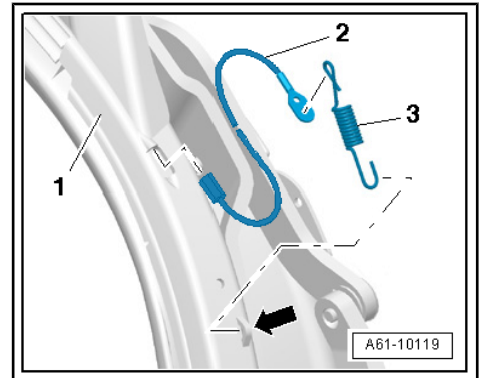
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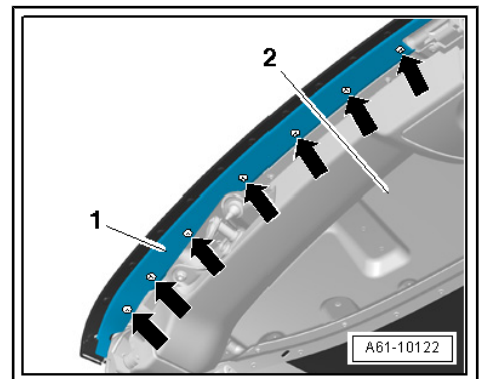
- Engage spring -3- in eyelet -arrow- on main guide element -1- and rear end of tensioning cable -2-.

#### Removing convertible roof cover

- Trim for convertible roof compartment detached from tensioner ⇒ [page 116](#) .
- Trim cover (front) removed ⇒ [page 118](#) .
- Convertible roof headliner removed ⇒ [page 132](#) .



- Remove bolts -arrows- on front cross strut -2- and detach retaining strip for front cross strut -1-.



## Retaining strips for convertible roof cover



### Note

- ◆ Only on vehicles with power-operated convertible roof
- ◆ On vehicles with manually operated convertible roof the plastic retaining strips must be pulled off the cross struts.

#### 1 - Control cable

- To detach convertible roof cover, unscrew control cables from roof guide element "2" on both sides ⇒ [page 130](#).

#### 2 - Bolt

- 2.5 Nm

#### 3 - Retaining strip for cross strut "1"

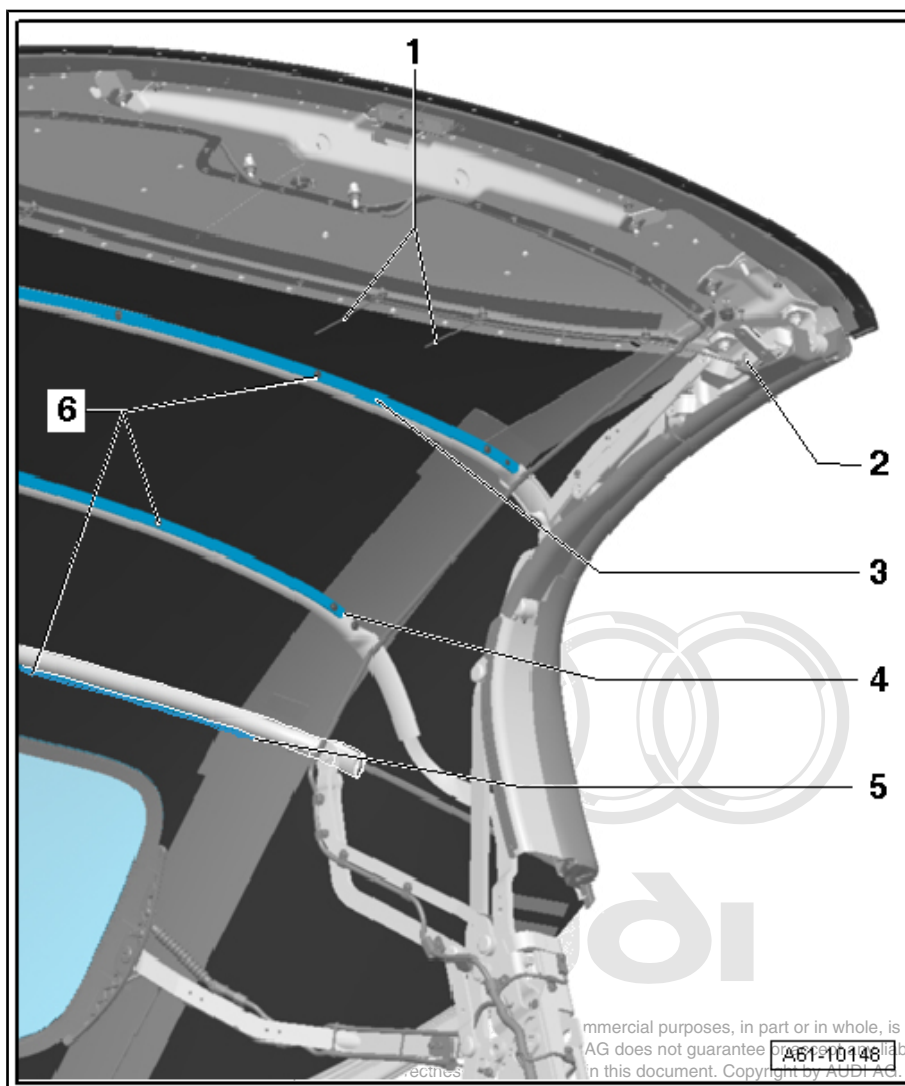
- To detach convertible roof cover, unscrew retaining strips for cross struts "1," "2" and "3"

#### 4 - Retaining strip for cross strut "2"

#### 5 - Retaining strip for cross strut "3"

#### 6 - Bolt

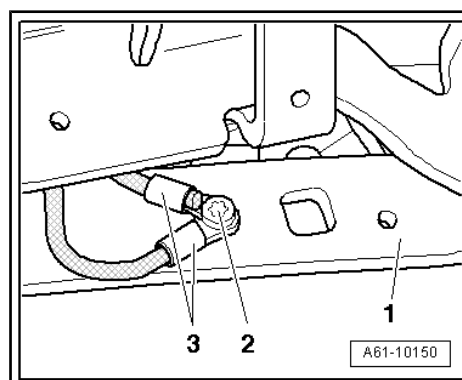
- 2 Nm



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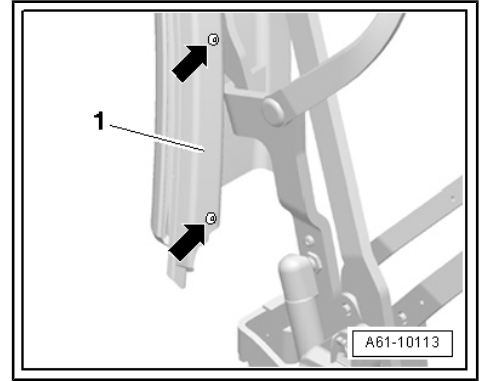
### Attachment of control cable to roof guide element "2"

- To detach convertible roof cover, remove bolt -2- for control cables -3- from roof guide element "2" -1-.
- Unscrew all threaded fasteners for tensioning cables and tensioning straps securing convertible roof cover.
- Unscrew retaining strips securing convertible roof cover from cross struts.

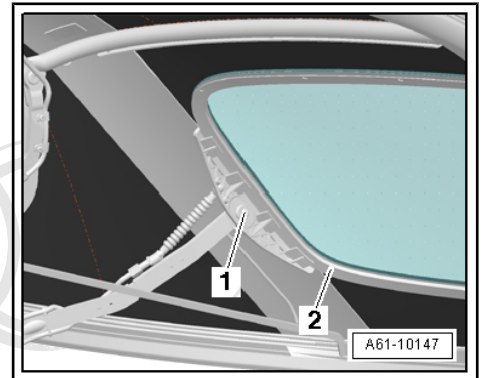




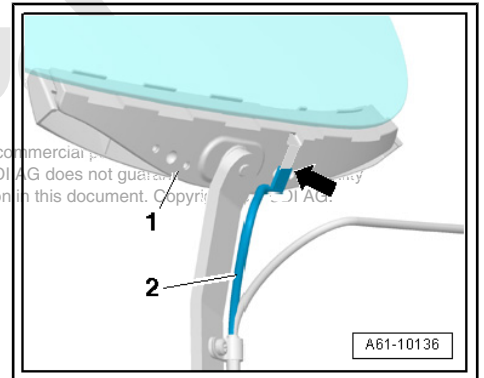
- Drill out rivet heads -arrows- securing convertible roof cover on retaining bracket -1- and knock out rivets.



- Remove bolt -1- securing rear window.
- When installing, tighten to 6 Nm.
- Loosen bolt at Bowden cable at top of rear window and disengage Bowden cable.



- Unplug wire for heated rear window at connector -arrow-.



## Removing convertible roof cover (rear)

### 1 - Retaining strip

- ☐ Not available separately; is supplied together with convertible roof headliner

### 2 - Convertible roof headliner

- ☐ Removed

### 3 - Tensioner

- ☐ To detach convertible roof cover, disengage tensioner from convertible roof frame

### 4 - Bolt

- ☐ 2.5 Nm

### 5 - Convertible roof cover

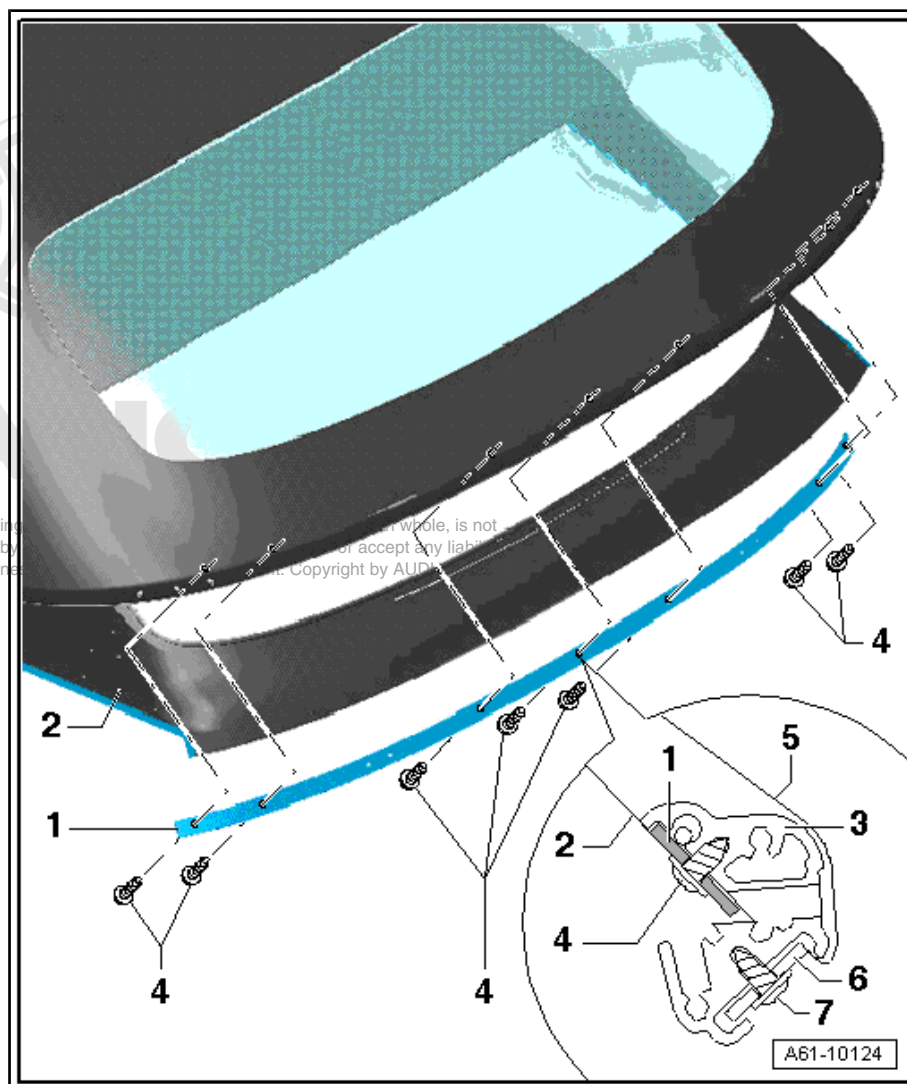
- ☐ Drill out rivet heads from retaining bracket and pull out retaining strip with convertible roof cover.
- ☐ Remove bolts on retaining strip -6- and detach retaining strip from convertible roof frame

### 6 - Retaining strip

- ☐ Not available separately; is supplied together with convertible roof cover

### 7 - Bolt

- ☐ 3 Nm



### Installing convertible roof cover

- Installation is performed accordingly in the reverse sequence.

## 1.13 Removing and installing headliner



### Note

The headliner is removed with the convertible roof on the vehicle.

### Detaching headliner (front)

### 1 - Convertible roof headliner (front)

- ☐ Trim (front) removed
- ☐ Trim cover (front) removed ⇒ [page 118](#).
- ☐ To remove, unscrew bolts -4-.

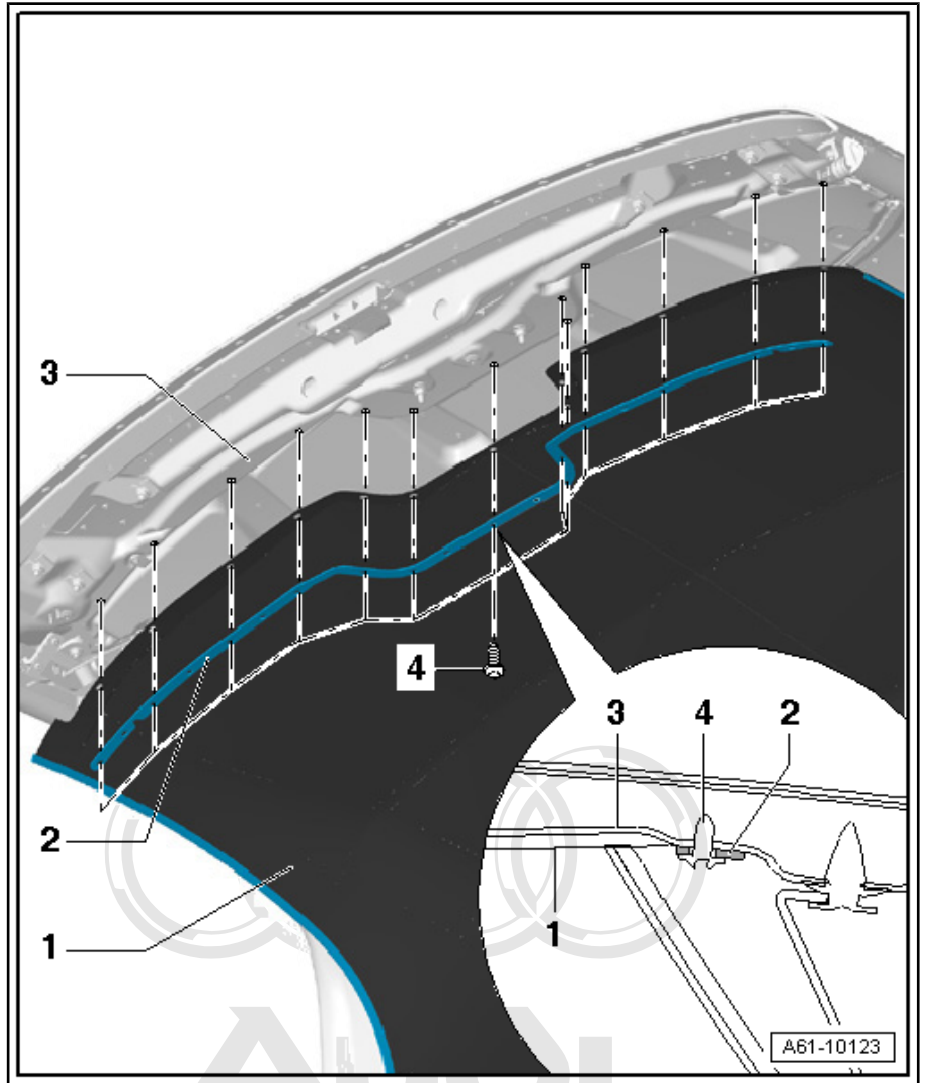
### 2 - Retaining strip

- ☐ Removed

### 3 - Front cross strut of convertible roof

### 4 - Bolt

- ☐ 1.5 Nm



### Removing headliner (rear)



#### Note

*If a new convertible roof headliner is installed, it might be necessary to use the holes on the retaining strip for the missing outer holes.*

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### 1 - Retaining strip

- ☐ Retaining strip with tensioning strap removed
- ☐ Not available separately; is supplied together with convertible roof headliner

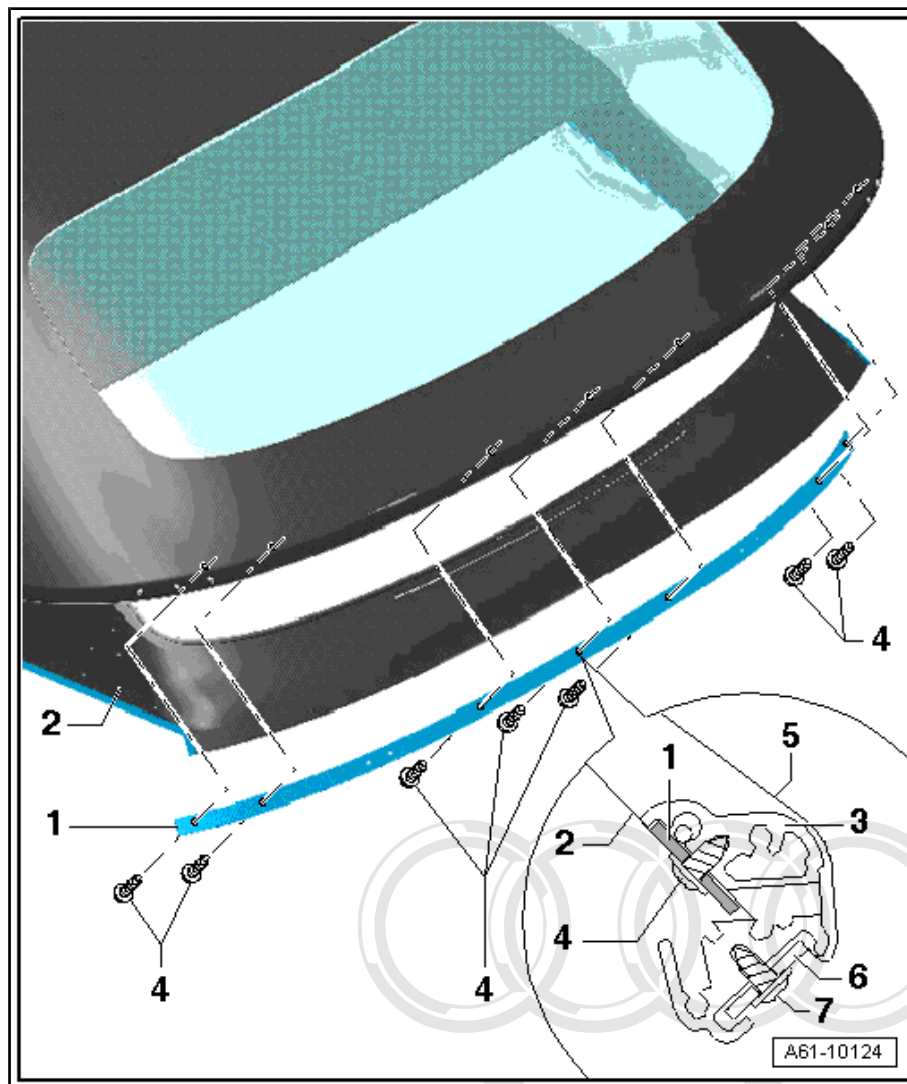
### 2 - Convertible roof headliner (rear)

- ☐ Convertible roof headliner is secured all round rear window with velcro tape
- ☐ To detach, pull headliner off rear window

### 3 - Tensioner

### 4 - Bolt

- ☐ 2.5 Nm



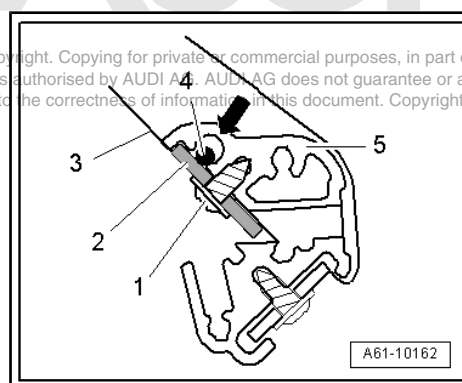
### Installing retaining strip at tensioner



#### Caution

- ◆ *There are two grooves on the tensioner.*
- ◆ *The heating conductor cable for the heated rear window must be routed in the top groove.*
- ◆ *The bolts for securing the retaining strip must be screwed into the bottom groove.*

- Insert cable -4- for heated rear window in top groove -arrow- on tensioner -5- as shown.
- Secure retaining strip -2- for convertible roof headliner -3- in bottom groove with bolts -1-.



### Removing tensioning strap for tensioner

### 1 - Convertible roof

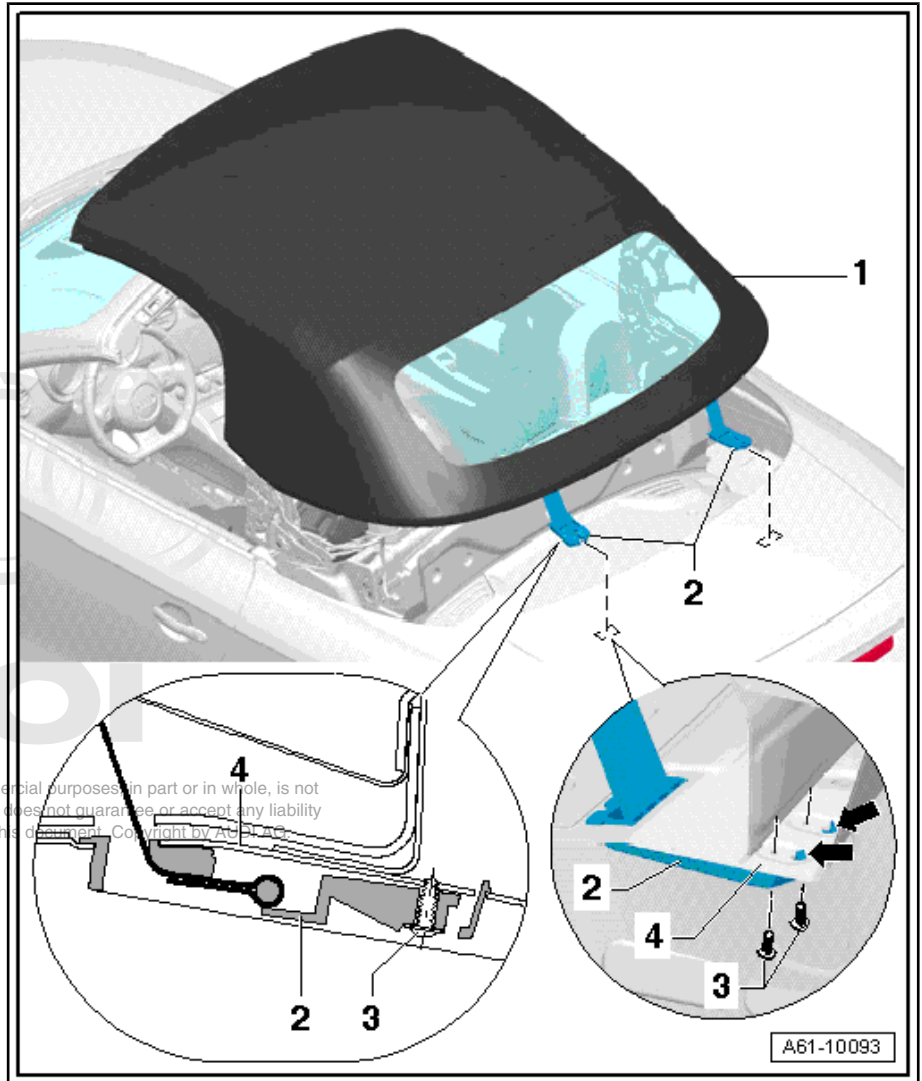
### 2 - Tensioning strap for tensioner

- Remove bolts -3- and pull tensioning strap through into convertible roof compartment

### 3 - Bolt

- 2 Nm

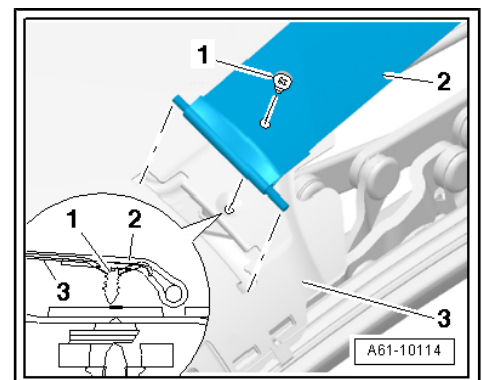
### 4 - Convertible roof compartment



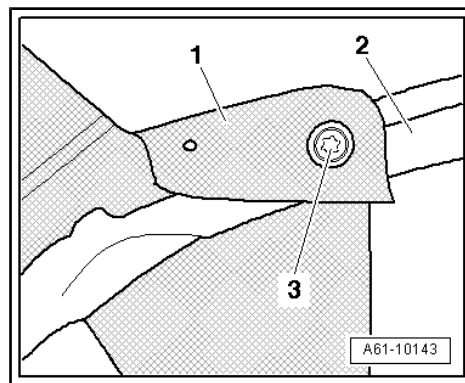
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### Removing and installing tensioning straps

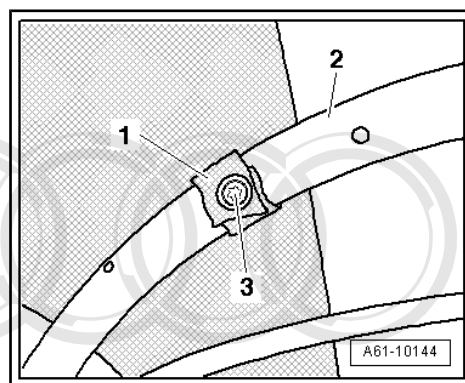
- Remove bolts -1- on front cross strut -3-.
- Pull tensioning strap -2- forwards out of retainer and lift out of front cross strut.



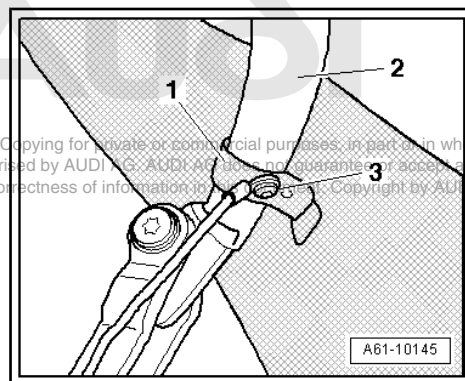
- Remove bolts securing tensioning strap tabs on cross strut “1” as shown.



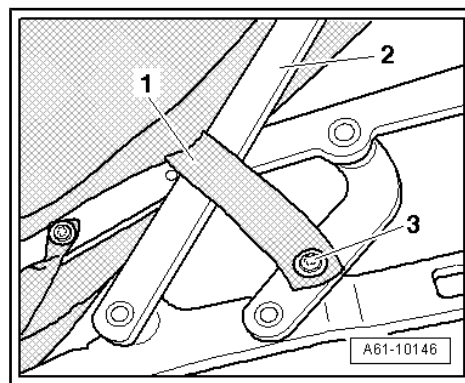
- Remove bolts securing tensioning strap tabs on cross strut “2”.



- Remove bolts securing tensioning strap tabs on cross strut “3”.



- Remove bolt -3- securing control strap -1- on roof guide element “2” as shown.



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## Renewing Bowden cable for rear window



### 1 - Rear window

- ☐ Not available as a separate replacement part

### 2 - Bowden cable for rear window

- When detaching convertible roof cover, unscrew Bowden cable from top of rear window



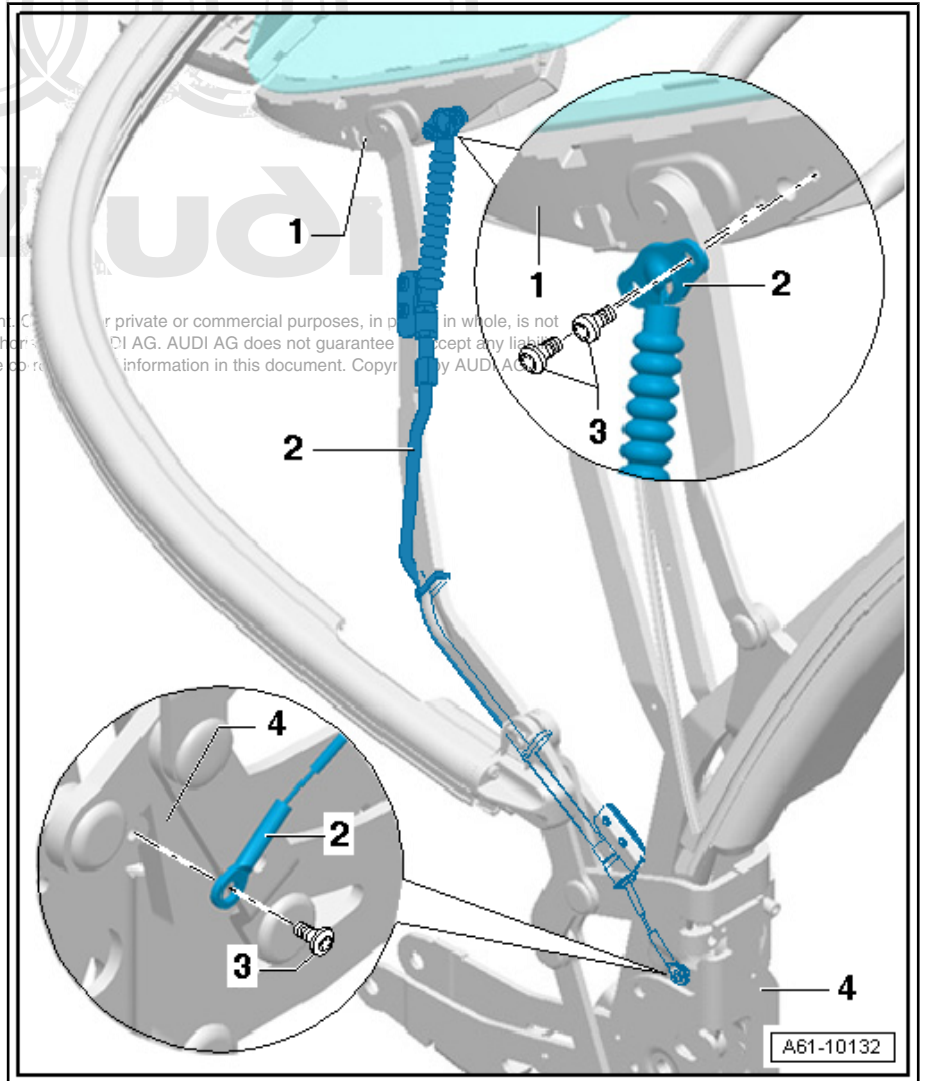
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### 3 - Bolt

- ☐ 2 Nm

### 4 - Main mounting



### Installing headliner

- Installation is performed accordingly in the reverse sequence.

## 2 Repairing hydraulic system for convertible roof

### 2.1 General information on hydraulic system

- ◆ The hydraulic system is self-bleeding and maintenance-free.
- ◆ After all repairs in which hydraulic connections are opened or parts of the hydraulic system are renewed, check the fluid level and top up to the marks on the reservoir if required  
⇒ [page 143](#) .

### 2.2 Rules for cleanliness



#### Caution

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

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

### 2.3 Filling and bleeding the hydraulic system



#### Note

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

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#### Caution

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

## 2.4 Hydraulic system - exploded view



#### Caution

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

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### 1 - Hydraulic cylinder

- ☐ Remove convertible roof before removing
- ☐ Removal ⇒ [page 144](#)

### 2 - Hydraulic line

- ☐ Unclip hydraulic line from body -arrows-

### 3 - Housing for hydraulic pump

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

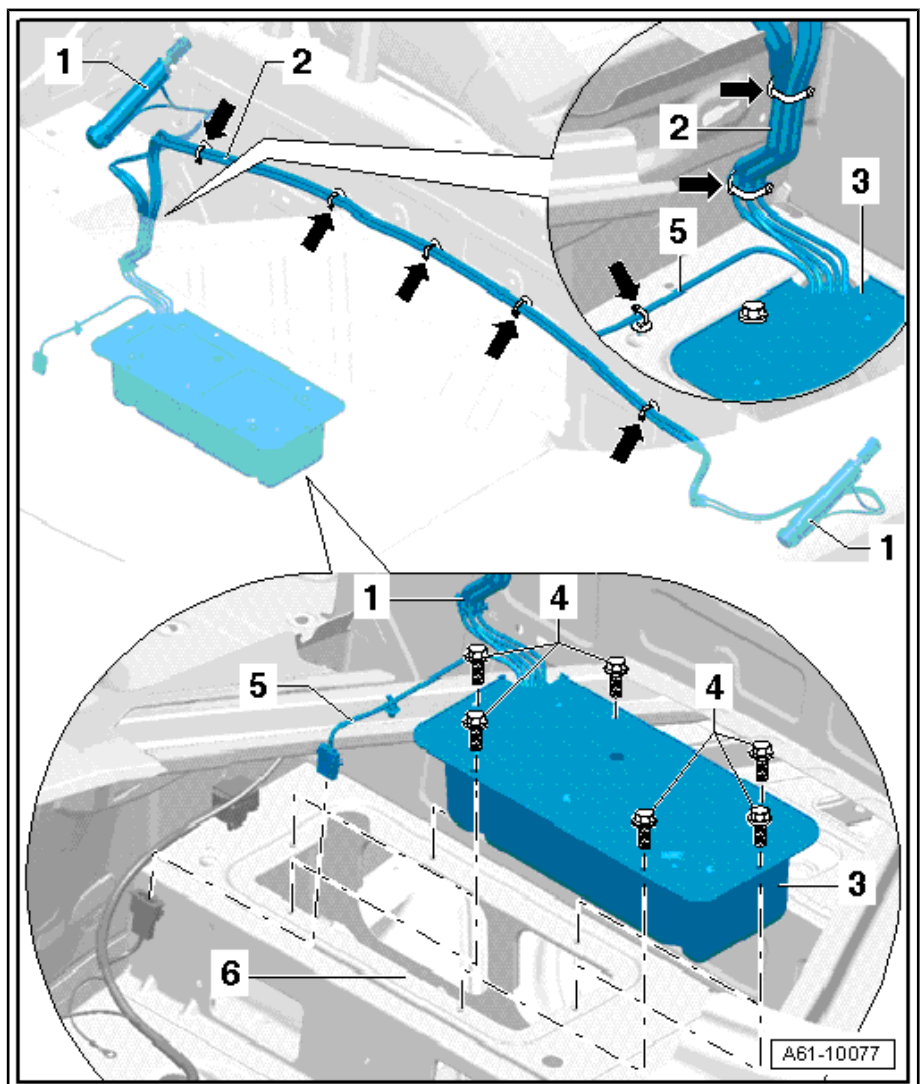
### 4 - Bolt

- ☐ 10 Nm

### 5 - Electrical wire

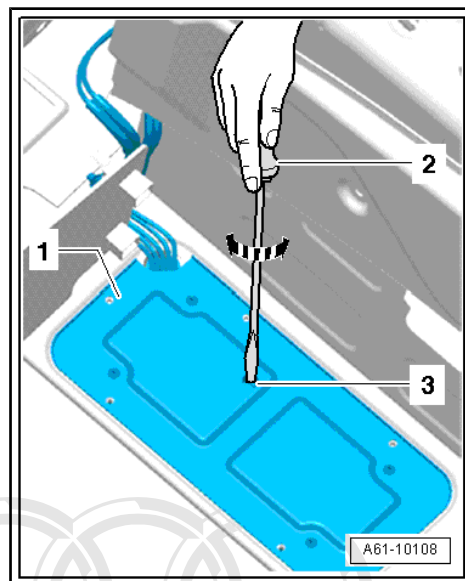
- ☐ Unplug connector when removing hydraulic pump

### 6 - Cross member on body



### Valve for hydraulic pump

- Insert screwdriver -2- through aperture -3- in lid -1- of pump housing and open valve on hydraulic pump by turning screw on valve 180° anti-clockwise.
- Tighten screw to 2 Nm when closing valve on hydraulic pump.



## 2.5 Removing hydraulic pump

### 1 - Housing for hydraulic pump

- ☐ Removed from body

### 2 - Noise insulation

### 3 - Lid of housing

- ☐ Detached

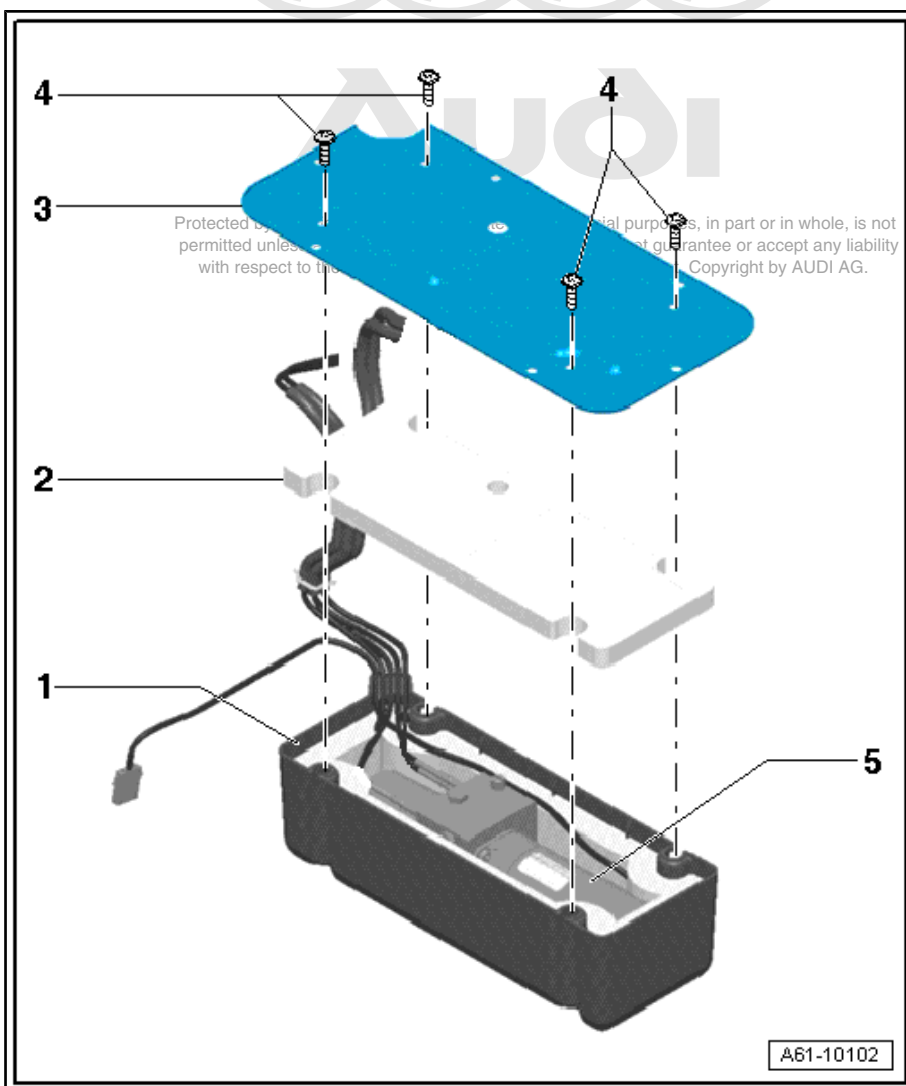
### 4 - Bolts

- ☐ 4 Nm

### 5 - Hydraulic pump

- ☐ To remove, unscrew bolts -4- and take off lid with noise insulation

6 -



## Disconnecting hydraulic line from pump



**Caution**

*Always renew O-rings after opening connections*

### 1 - Bolt

- ☐ 6 Nm

### 2 - Hydraulic line

- ☐ Lift hydraulic pump out of housing
- ☐ To remove, unscrew retaining bolt -1- and pull connection pieces with hydraulic line out of pump block -4-
- ☐ Before installing, fit new O-rings on connection pieces



**Caution**

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

- ☐ When installing, push connection pieces fully into pump block and tighten retaining bolts -1- to 6 Nm

### 3 - Fluid reservoir

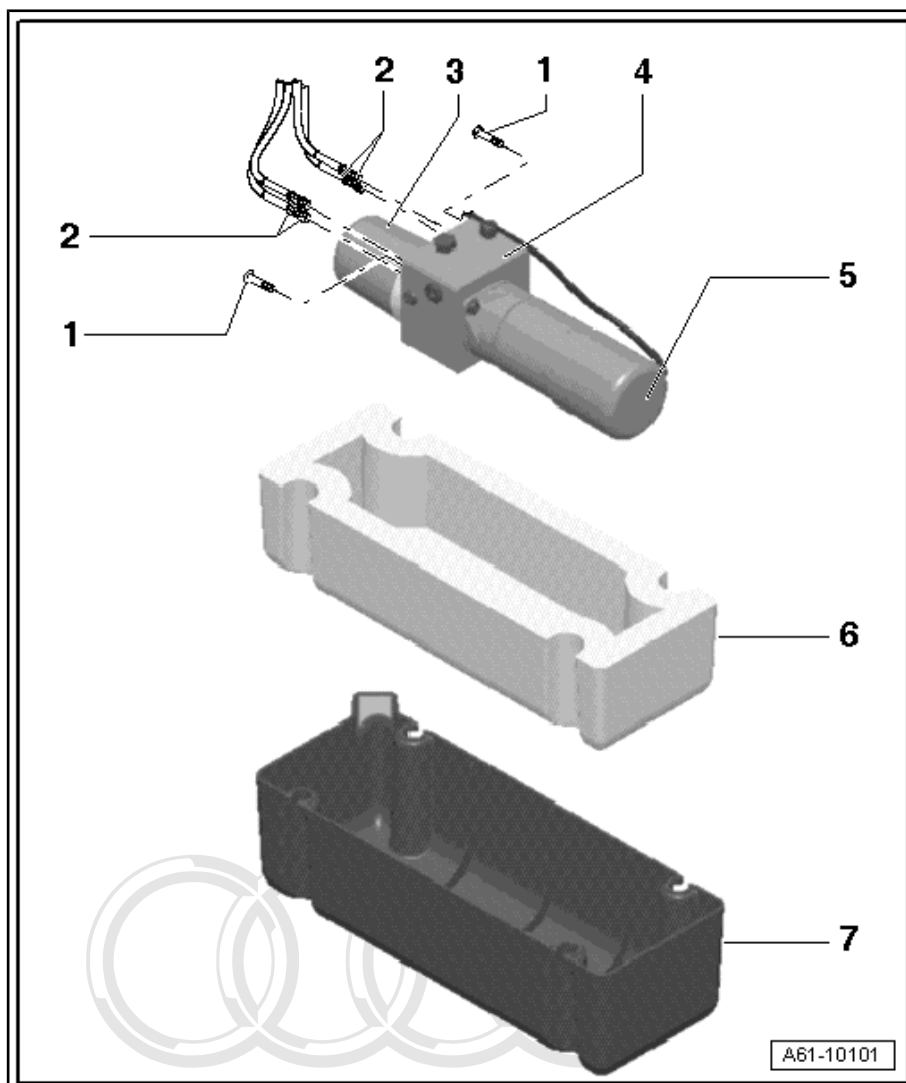
- ☐ With "Min" and "Max" marks
- ☐ Fluid level must be between marks

### 4 - Pump block

### 5 - Hydraulic pump motor

### 6 - Noise insulation

### 7 - Housing for hydraulic pump



## Renewing fluid reservoir

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## 1 - Fluid reservoir

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

## 2 - Filler plug



**Note**

- ☐ 5 Nm

## 3 - Valve for manual operation

- ☐ 2 Nm

## 4 - Pump block

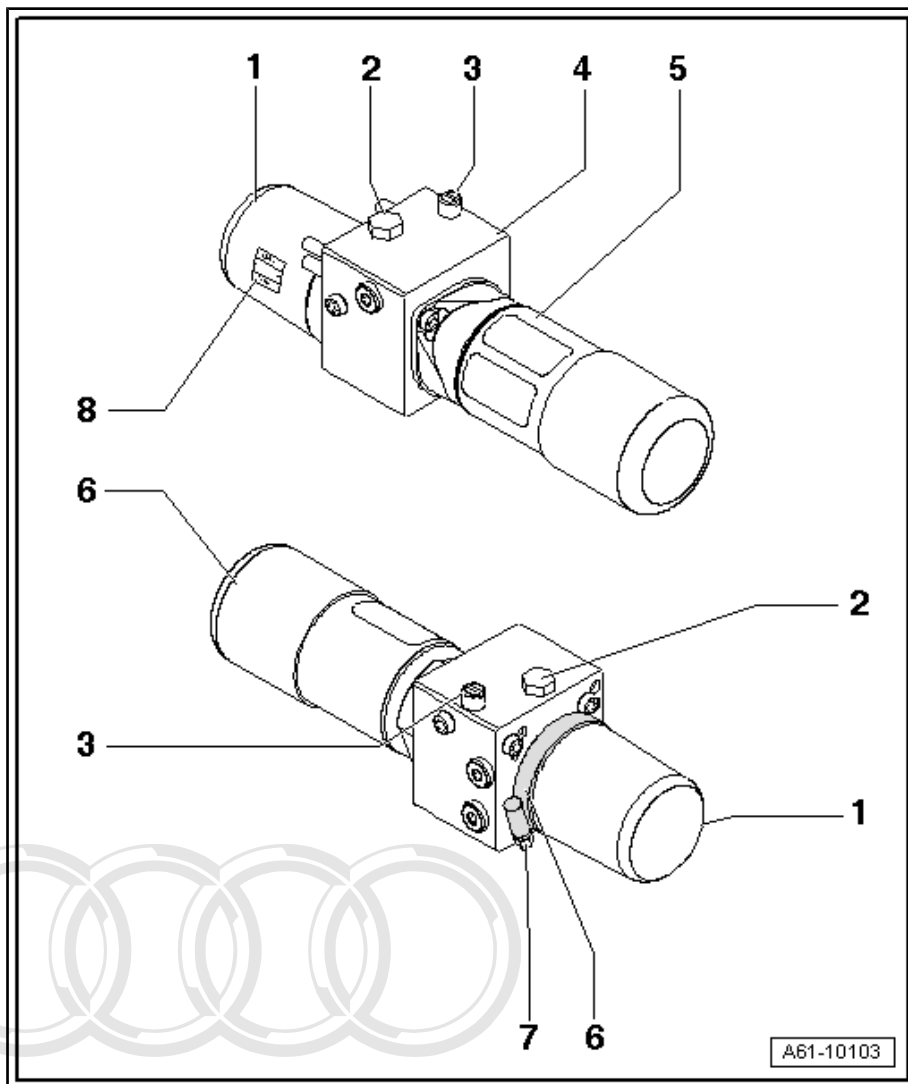
## 5 - Hydraulic pump motor

## 6 - Clamp

## 7 - Bolt

- ☐ 4 Nm

## 8 - Fluid level marks

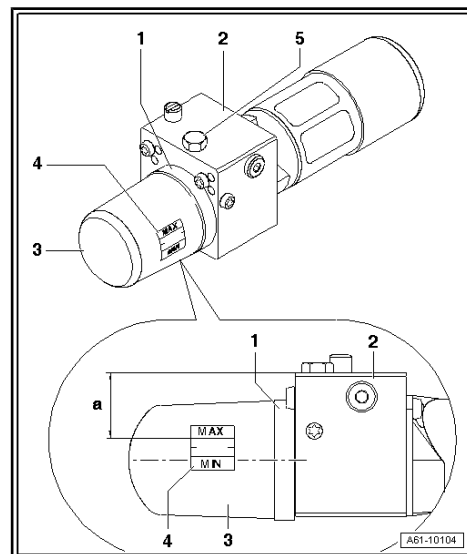


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### Installation position of fluid reservoir

- The fluid reservoir must be positioned so that the distance between the “Max” mark and the top edge of the pump block is -a- = 27 mm.
- The fluid reservoir can be turned for this purpose when the clamp is slackened.
- After adjusting correctly, tighten clamp to specified torque and fill up with hydraulic fluid.



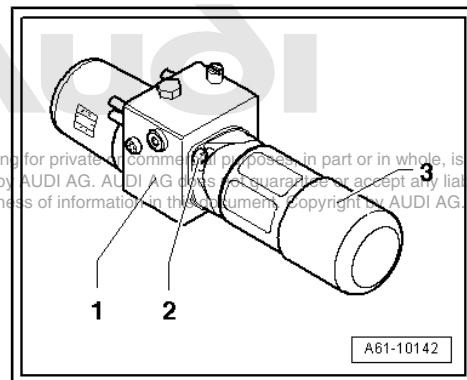
## 2.6 Renewing pump motor



### Caution

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

- Pump removed.
- Remove bolts -2- and pull motor off pump block -1-.
- Fit new seal and install new motor -3- in pump block.
- Tighten bolts to 6 Nm.



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## 2.7 Checking fluid level in hydraulic pump

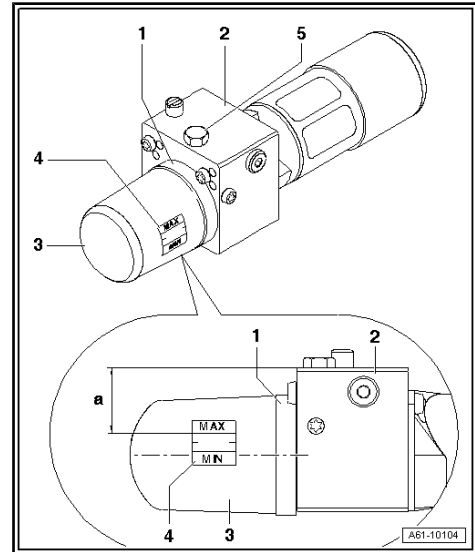


### Caution

*The convertible roof must be in the convertible roof compartment (retracted position) when checking the fluid level.*

- The hydraulic pump must be removed and placed on a horizontal surface in the luggage compartment.
- The fluid level must be between the two marks -4-. Top up as required.

- Remove filler plug -5-.
- Fill up with fluid until fluid level is between "Min" and "Max" marks.
- Screw in filler plug and tighten to 5 Nm.
- Operate convertible roof several times with electric switch and check fluid level once again.



## 2.8 Hydraulic cylinder - exploded view

### 1 - Clip

- ☐ Retaining clip for connection piece

### 2 - Hydraulic line

- ☐ Supply

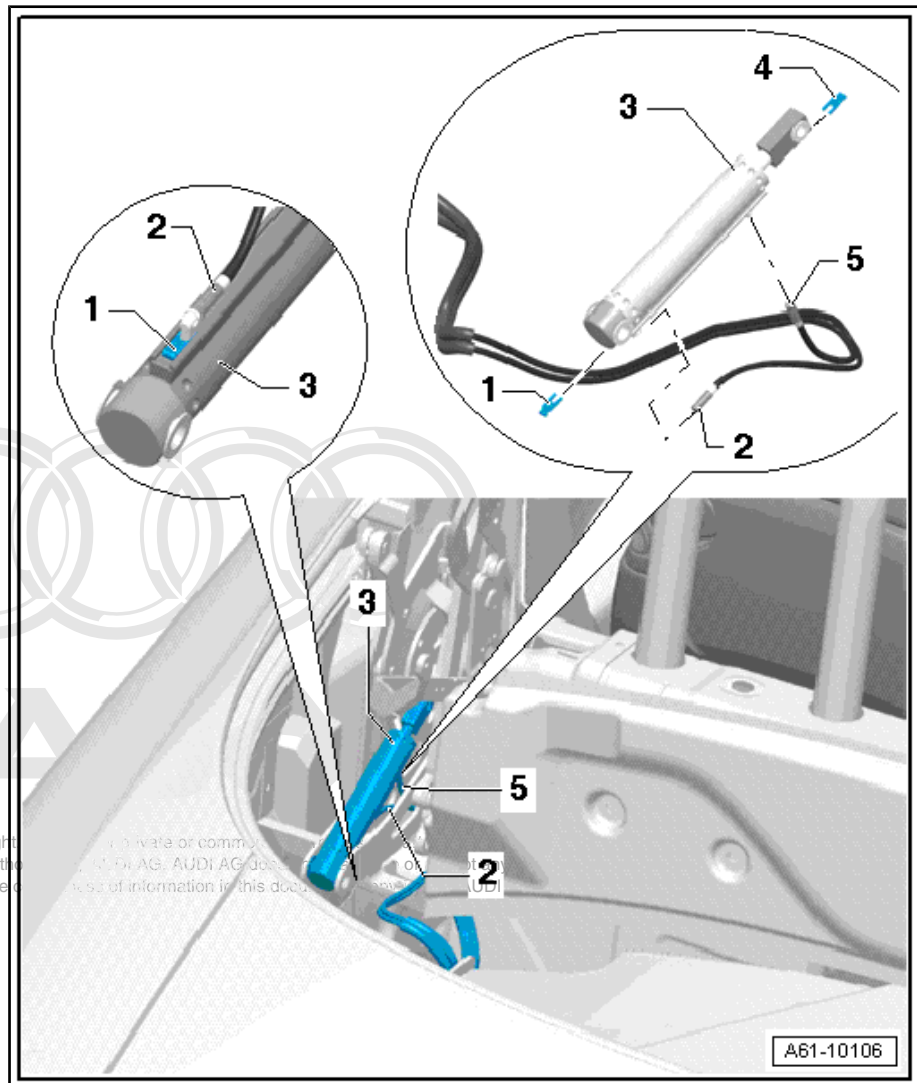
### 3 - Roof actuating cylinder

### 4 - Clip

- ☐ Retaining clip for connection piece

### 5 - Hydraulic line

- ☐ Return



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## Removing and installing hydraulic cylinder

- Convertible roof completely removed

### 1 - Main mounting for convertible roof

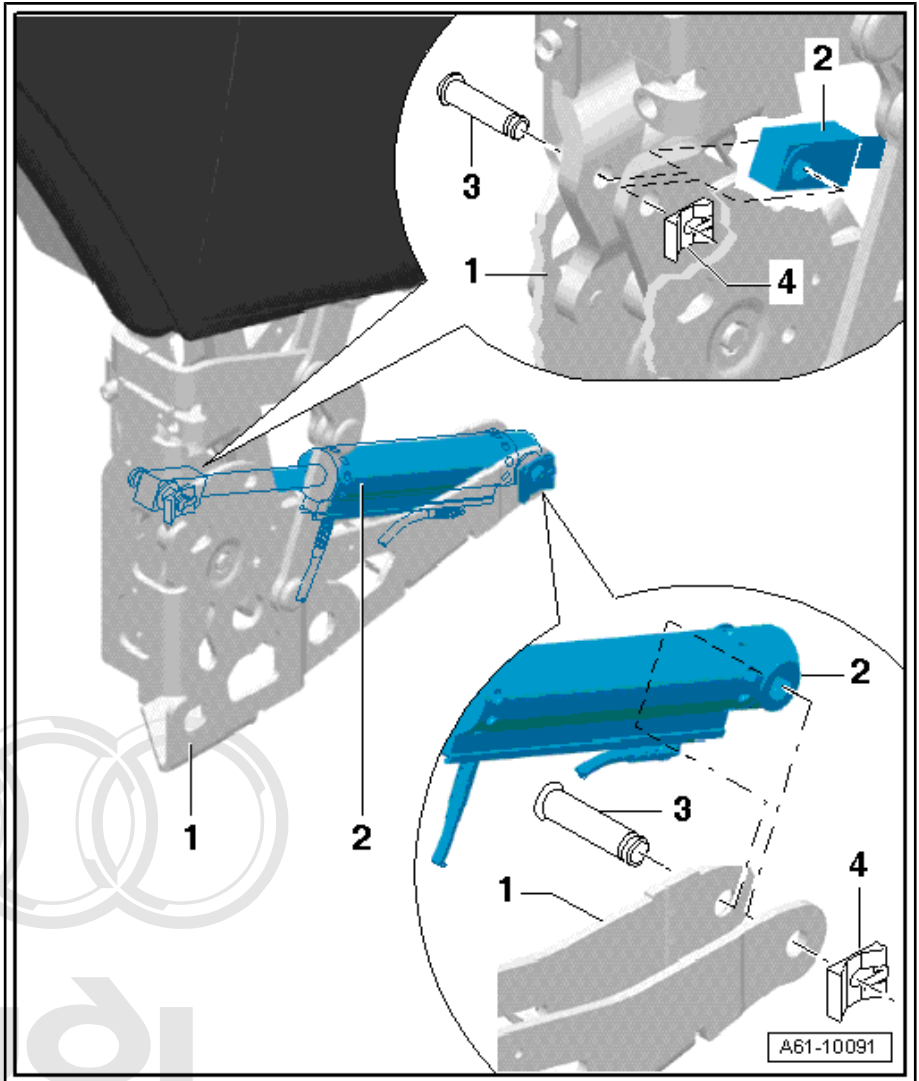
### 2 - Hydraulic cylinder

- ❑ Detach retaining clip -4- from pin -3- at piston rod and cylinder.
- ❑ Pull pin sideways out of main mounting and take out cylinder
- ❑ Disconnect supply and return lines from cylinder
- ❑ After installing, check fluid level at hydraulic pump and top up as required

### 3 - Retaining pin

### 4 - Retaining clip

- ❑ Release clip and push off retaining pin to the side



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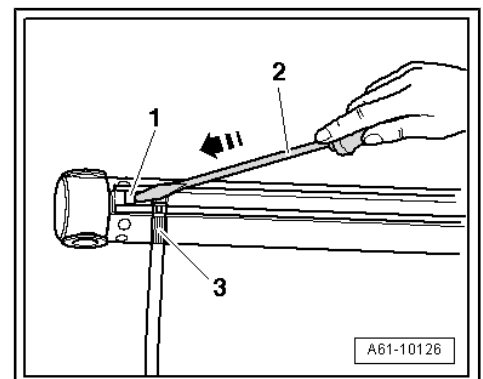
### Disconnecting hydraulic line from cylinder



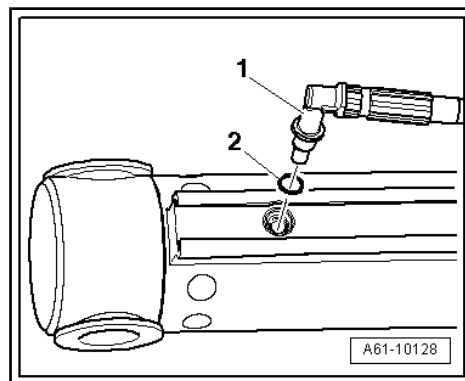
**Caution**

*Always renew seals.*

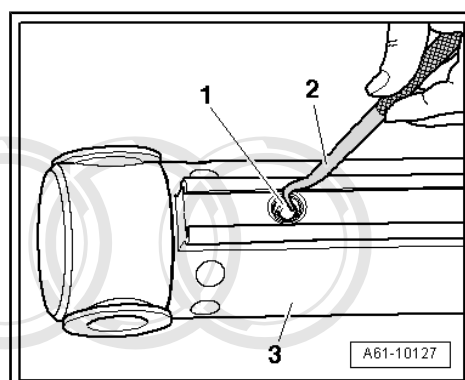
- Push retaining clip -1- sideways off cylinder by applying a screwdriver or similar under connection piece -3-.



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

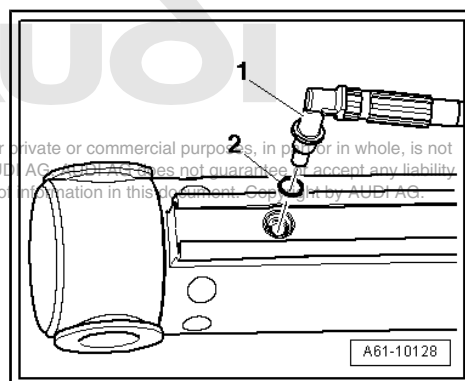


- If necessary, pry out seal -1- using a suitable small hook -2-, taking care not to damage cylinder -3-.

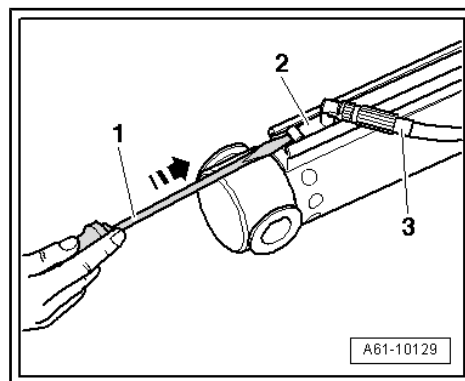


- Push new seal -2- onto connection piece -1-.
- Fit connection piece -3- vertically into cylinder (there should be no noticeable resistance).

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

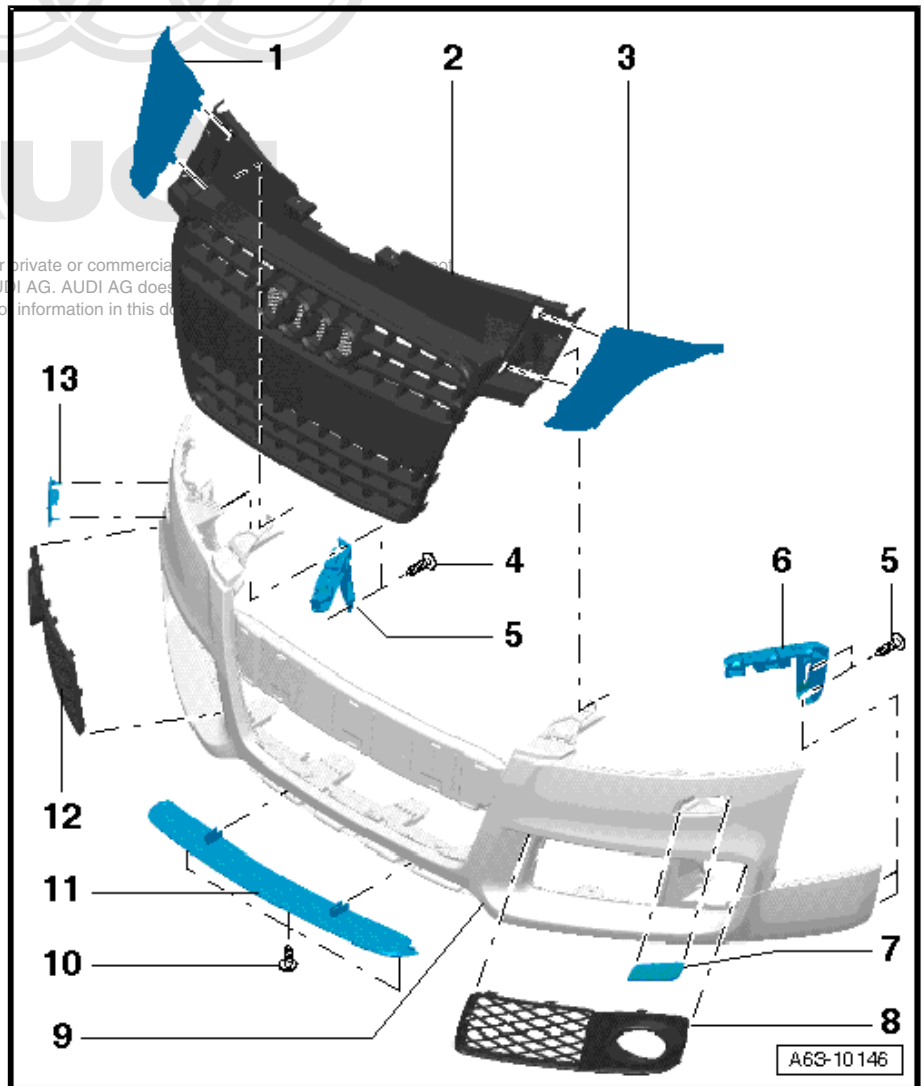


## 63 – Bumpers

### 1 Bumper (front) - Audi TT

#### 1.1 Removing and installing bumper - exploded view

- 1 - Bumper cover (top right)
  - ☐ Removing ⇒ [page 147](#)
- 2 - Radiator grille
  - ☐ Removing and installing ⇒ [page 216](#)
- 3 - Bumper cover (top left)
  - ☐ Removed
- 4 - Bolt
  - ☐ 1.5 Nm
- 5 - Guide (right-side)
  - ☐ Removing and installing ⇒ [page 151](#)
- 6 - Guide (left-side)
- 7 - Cover for headlight washer system
- 8 - Air grille
  - ☐ Removing ⇒ [page 152](#)
- 9 - Bumper
- 10 - Bolt
  - ☐ 2 Nm
- 11 - Spoiler
  - ☐ Depending on equipment version
- 12 - Air grille
- 13 - Cover for headlight washer system



Removing bumper covers (top)

### 1 - Trim cover (left-side)

- ❑ To remove, unclip upwards out of lock carrier and pull sideways out of radiator grille.

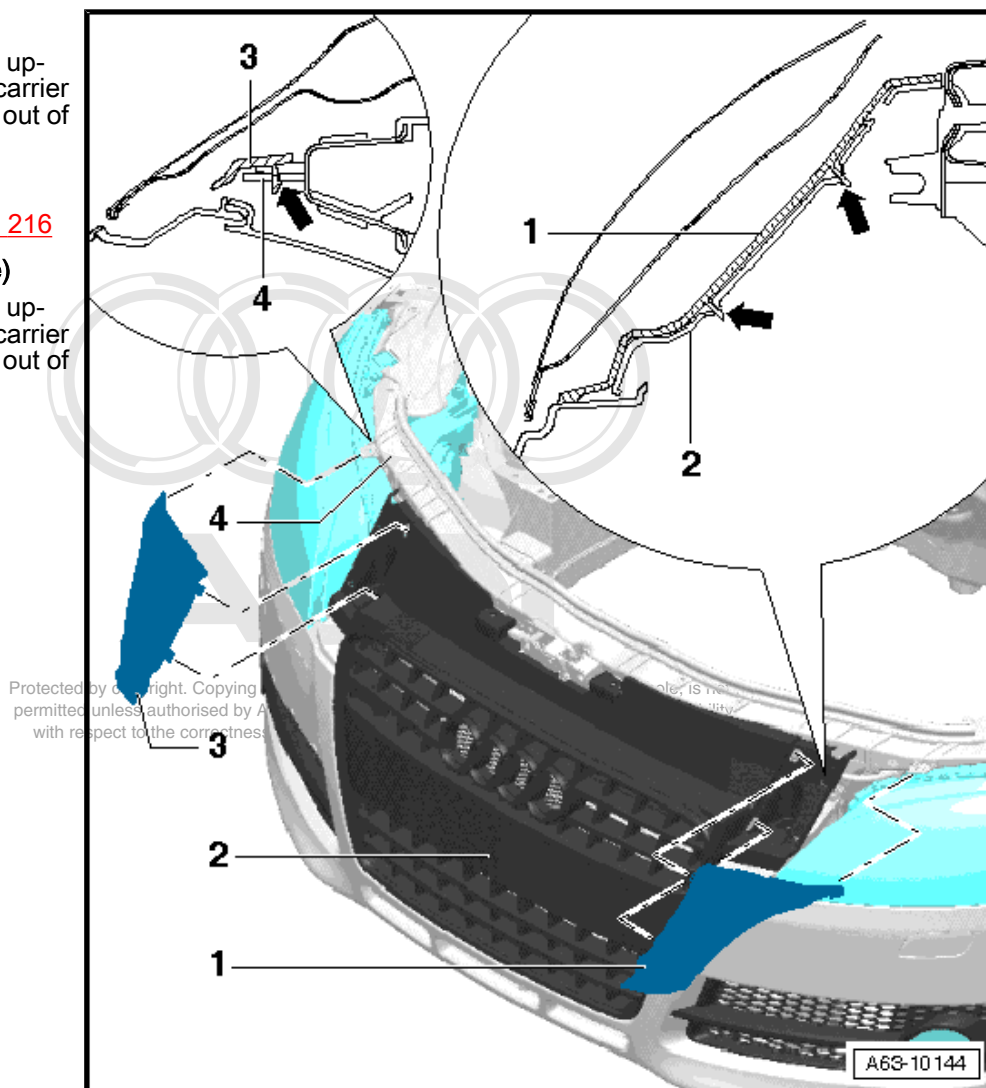
### 2 - Radiator grille

- ❑ Removing ⇒ [page 216](#)

### 3 - Trim cover (right-side)

- ❑ To remove, unclip upwards out of lock carrier and pull sideways out of radiator grille.

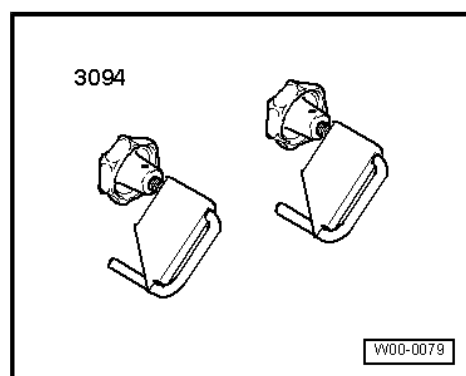
### 4 - Lock carrier



## 1.2 Removing bumper

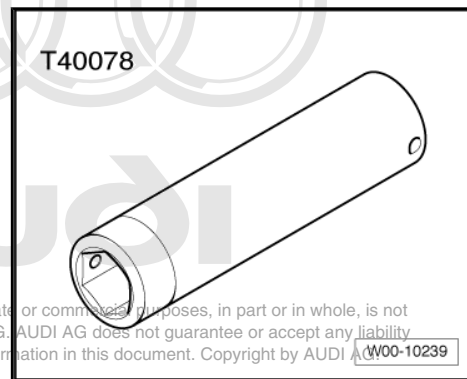
### Special tools and workshop equipment required

- ◆ Hose clamps up to Ø 25 mm -3094-





◆ Socket -T40078-



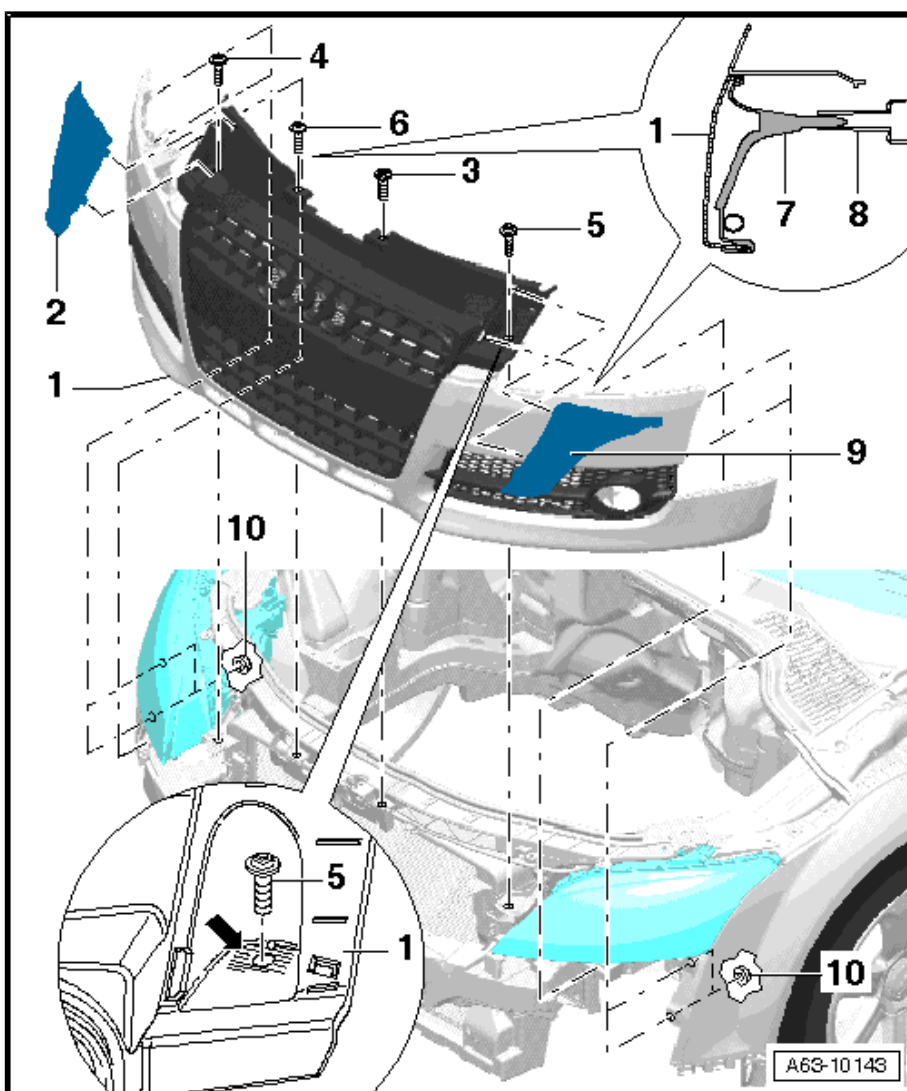
Exploded view

1 - Bumper



Note

- ☐ Removing:
  - Unclip covers -2- and -9-.
  - Unscrew bolts -3-; -4-; -5- and -6-.
  - Unfasten wheel housing liner in area of nut -10- and fold back  
⇒ [page 150](#).
  - Unscrew nuts -10- for zero joint screw connection.
  - Unscrew bolts at bottom of noise insulation in area of bumper.
  - Unclip bumper side-ways from guides and pull off slightly to front.
  - Disconnect wire to fog light and, if applicable, pipe to headlight washer system.
  - Completely detach bumper from vehicle
- ☐ Installing:
  - Use marks on radiator grille -arrow- for precise adjustment in longitudinal direction.
  - When installing, tighten bolts at top of bumper in the sequence -3-; -4-; -5- and -6-.



2 - Trim cover (right-side)

- ☐ Unclip

3 - Bolt

- ☐ 5 Nm

**4 - Bolt**

- ☐ 5 Nm

**5 - Bolt**

- ☐ 5 Nm

**6 - Bolt**

- ☐ 5 Nm

**7 - End plate**

- ☐ Not available as a separate replacement part
- ☐ Insert in mounting bracket -8- at lock carrier as shown.

**8 - Mounting bracket**

- ☐ Not available as a separate replacement part
- ☐ Delivered together with lock carrier

**9 - Trim cover (left-side)**

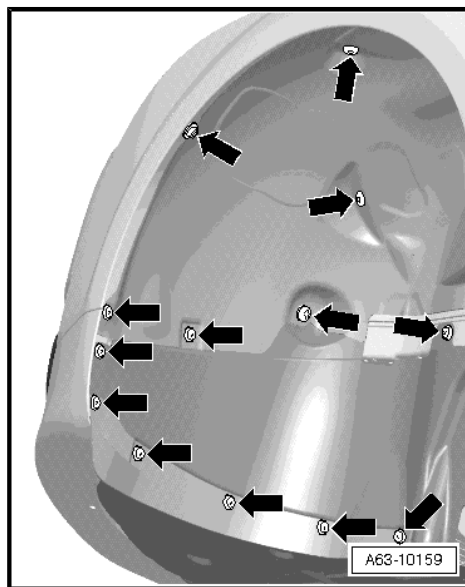
- ☐ Unclip

**10 - Nut**

- ☐ Use socket -T40078- to loosen/tighten nut.
- ☐ 6.5 Nm

**Loosening bolts at wheel housing liner**

- Unscrew bolts in area of bumper and fold back wheel housing liner.

**Attachment points (bottom) for bumper**

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**1 - Bumper**

**2 - Nut**

- ☐ Use socket -T40078- to loosen/tighten nut.
- ☐ 6.5 Nm

**3 - Grommet**

**4 - Wing panel**

**5 - End plate**

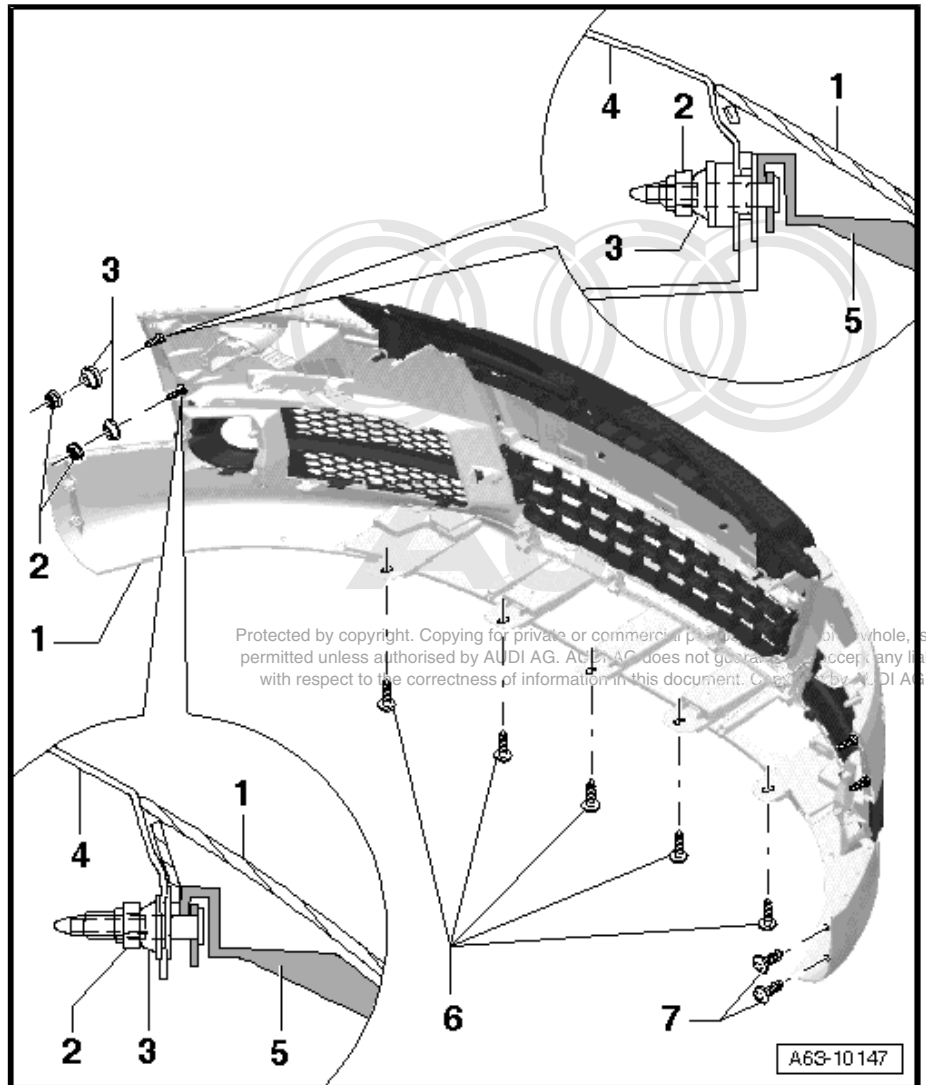
- ☐ Delivered together with bumper
- ☐ Not available as a separate replacement part

**6 - Bolt**

- ☐ 2 Nm
- ☐ Unscrew bolts at noise insulation.

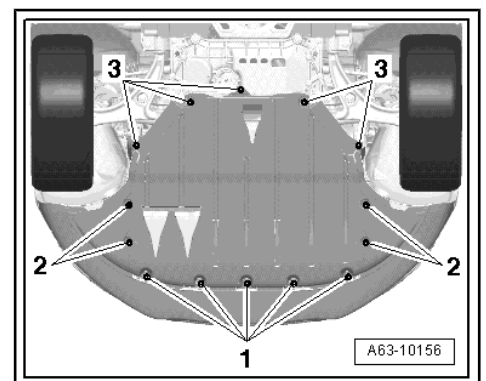
**7 - Bolt**

- ☐ 1.5 Nm



**Noise insulation**

- Unscrew bolts -1- to remove bumper from noise insulation -3-.



**Removing guide for bumper**



**1 - Bolt**

□ 2.5 Nm

**2 - Bumper**

□ Removed.

**3 - Wing panel**

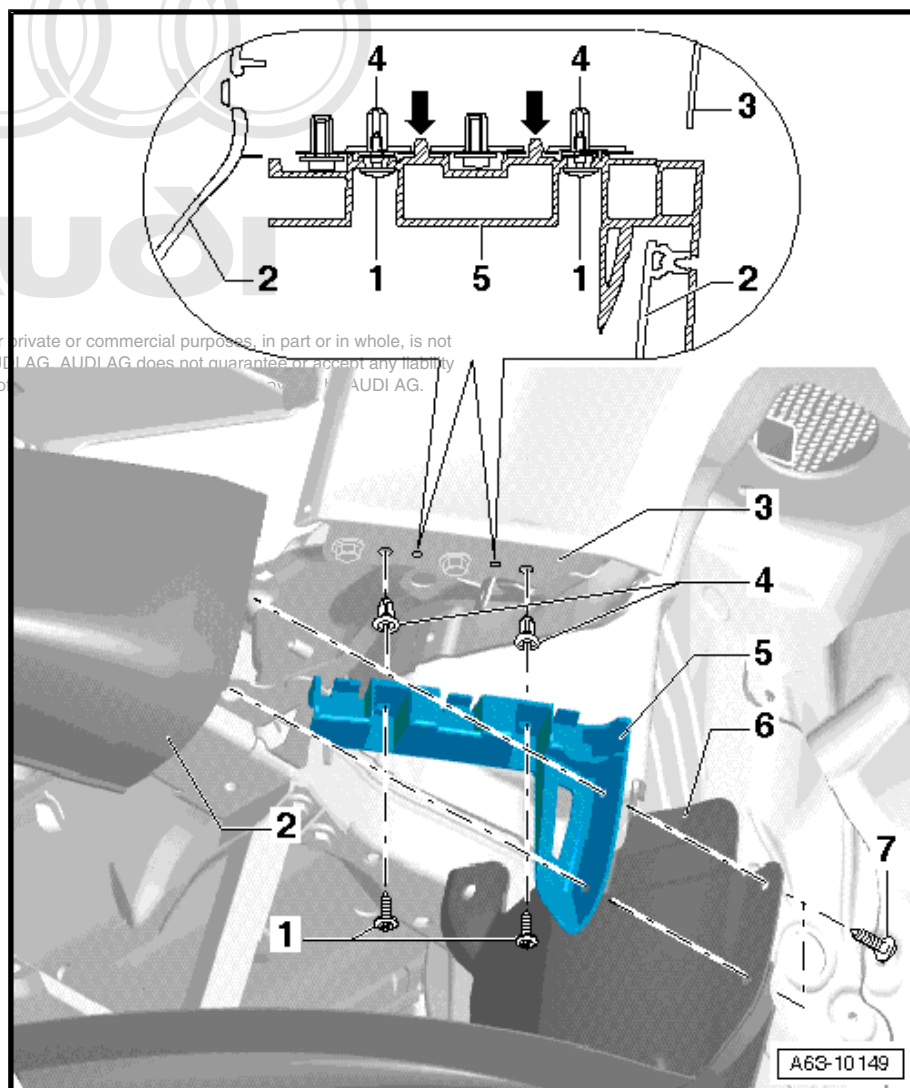
**4 - Clip**

**5 - Guide**

**6 - Wheel housing liner**

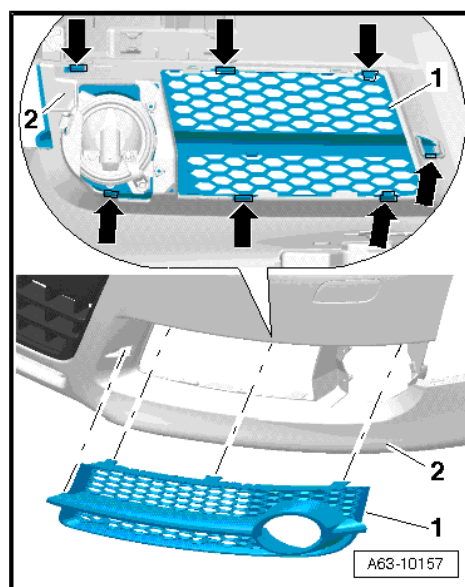
**7 - Bolt**

□ 1.5 Nm



**Removing and installing air grille**

- Starting from outer edge, pull grille -1- out of bumper -2-.
- When installing, retaining tabs -arrows- must engage fully in bumper.



### 1.3 Removing and installing impact bar - exploded view

#### 1 - Impact absorber

- Attached to impact bar in bumper

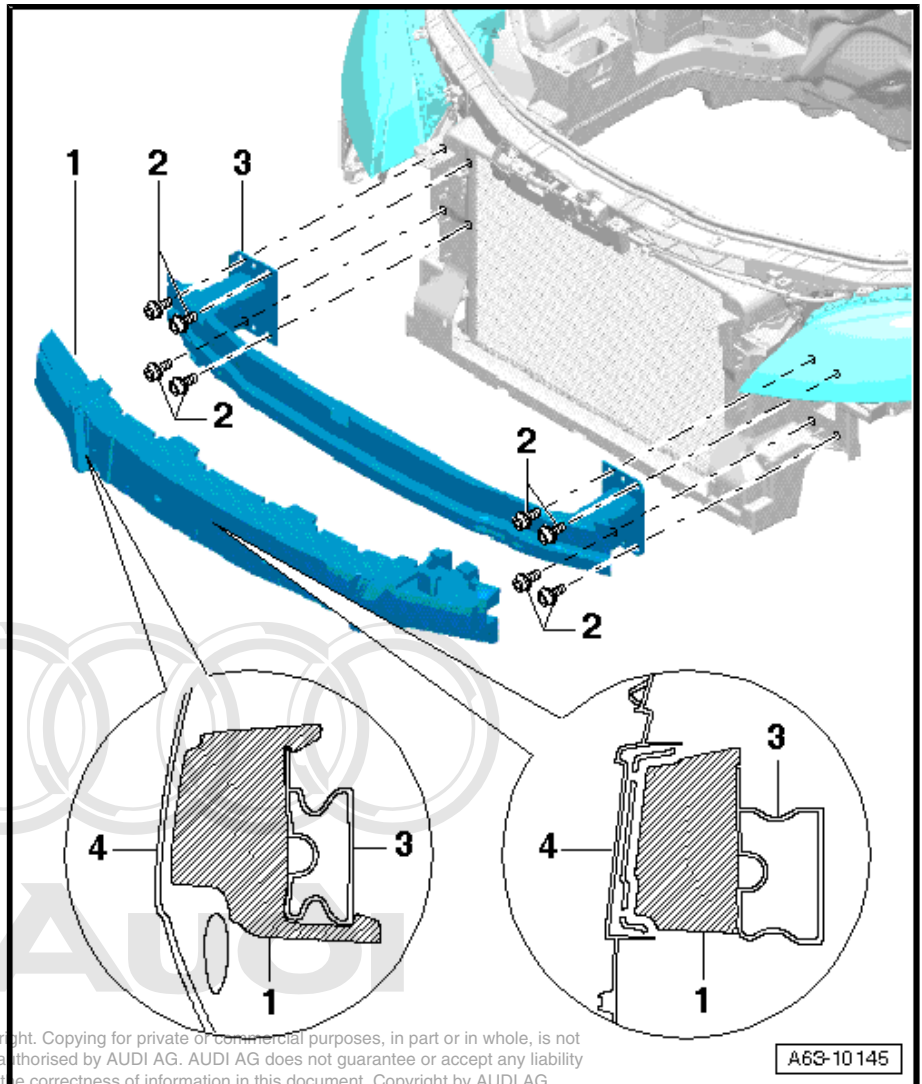
#### 2 - Bolt

- 30 Nm

#### 3 - Impact bar

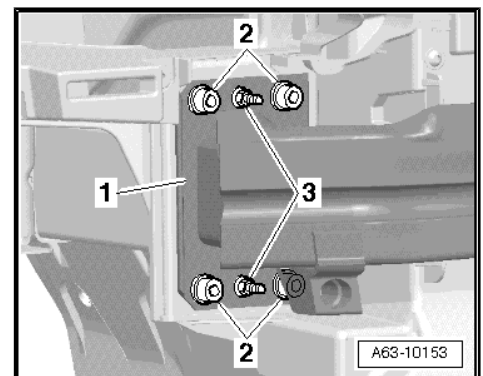
- After unscrewing bolts -2-, lock washers at bracket must also be detached (top and bottom).

#### 4 - Bumper

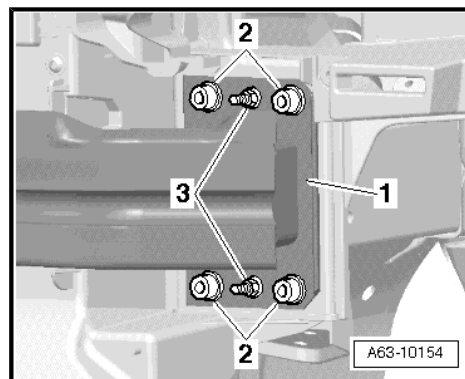


#### Removing impact bar for bumper

- Bumper removed.
- Unscrew bolts -2- on right ...



- and left and detach lock washers -3-.



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## 2 Bumper (front) - Audi TT RS

### 2.1 Bumper (front) - exploded view

#### 1 - Bolt

- ☐ 4x
- ☐ 2 Nm

#### 2 - Spoiler (top section)

- ☐ Removing and installing  
⇒ [page 159](#)

#### 3 - Air intake grille (right-side)

- ☐ Removing and installing  
⇒ [page 159](#)

#### 4 - Cover for washer jet (right-side)

- ☐ For headlight washer system
- ☐ Removing and installing  
⇒ Rep. Gr. 92

#### 5 - Bolt

- ☐ 4x
- ☐ 2 Nm

#### 6 - Guide

- ☐ Removing and installing  
⇒ [page 158](#)

#### 7 - Nut

- ☐ 4x
- ☐ 4 Nm

#### 8 - Inner cover panel

- ☐ Removing and installing  
⇒ [page 159](#)

#### 9 - Bolt

- ☐ 2x
- ☐ Tightening torque and sequence ⇒ [page 156](#)

#### 10 - Bumper

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

#### 11 - Air intake grille (left-side)

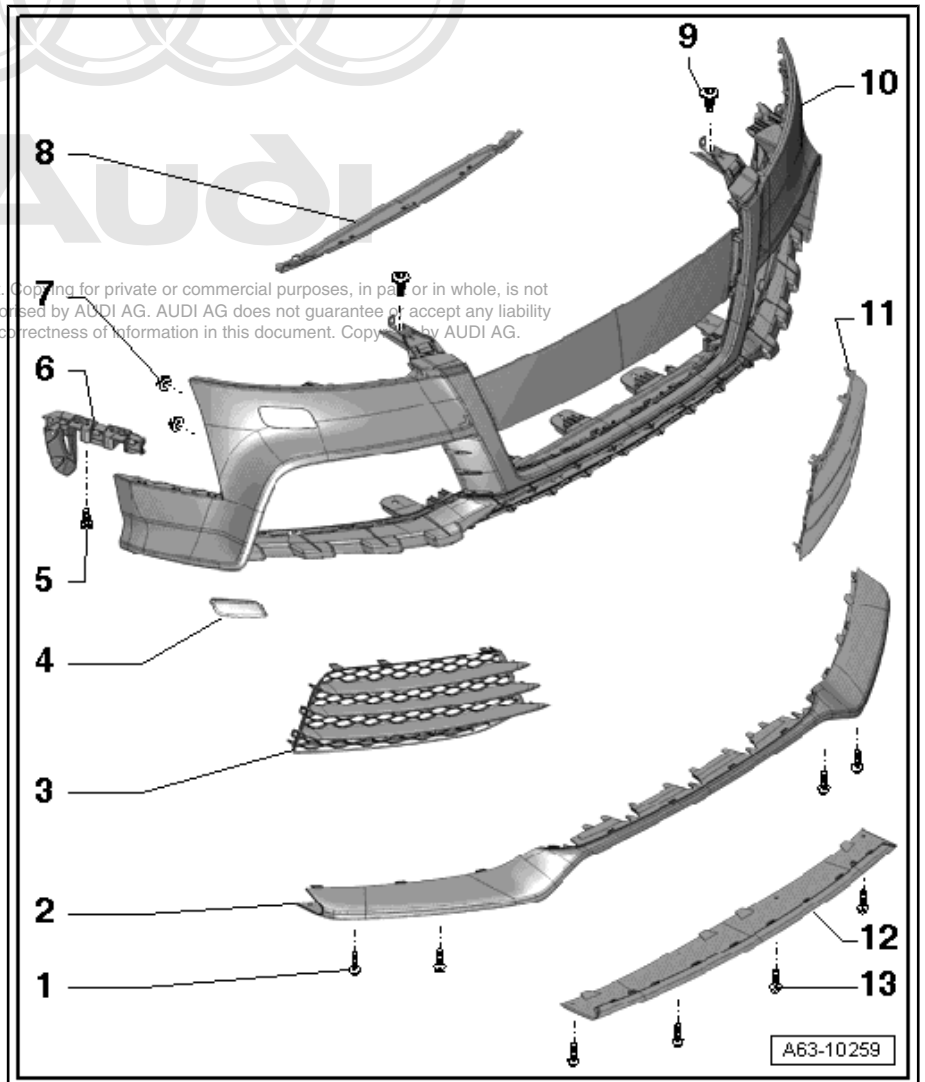
- ☐ Removing and installing ⇒ [page 159](#)

#### 12 - Spoiler (bottom section)

- ☐ Removing and installing ⇒ [page 160](#)

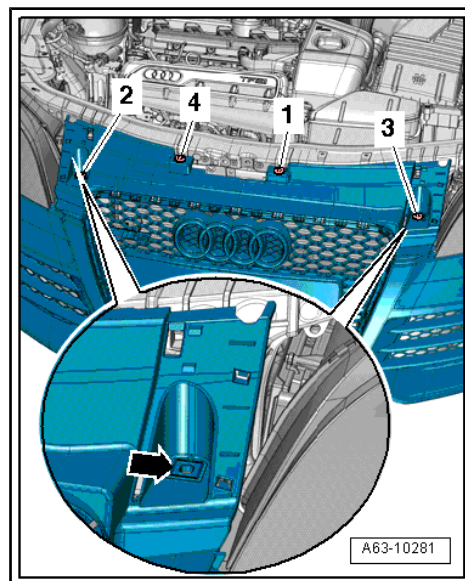
#### 13 - Bolt

- ☐ 4x
- ☐ 2 Nm



### Tightening torques and sequence for bumper (top)

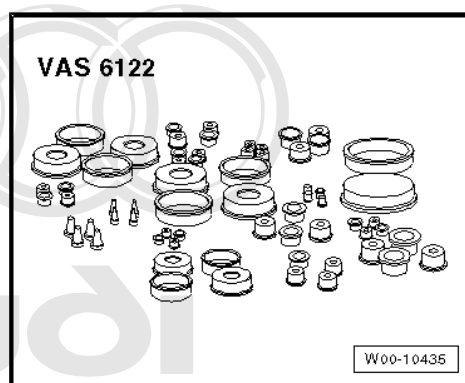
- Tighten bolts to 5 Nm in sequence -1 ... 4-.



## 2.2 Removing and installing bumper

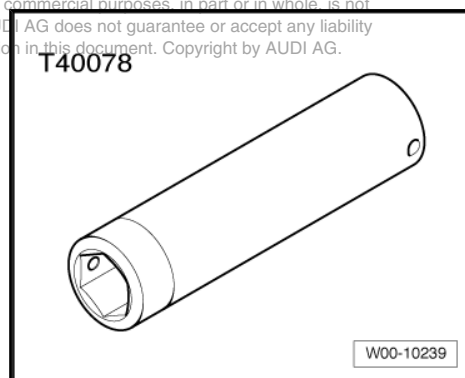
### Special tools and workshop equipment required

- ◆ Engine bung set -VAS 6122-



- ◆ Socket -T40078-

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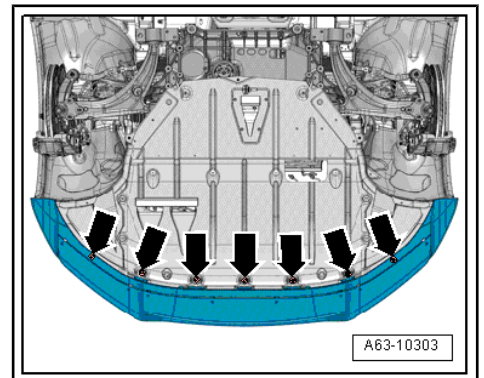
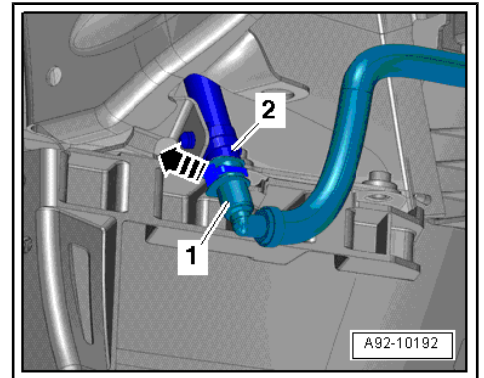
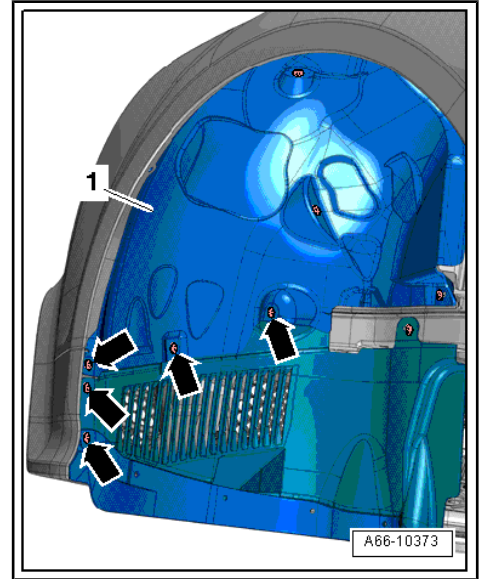
## Removing

- Unscrew bolts -arrows- and fold back bottom section of wheel housing liner.

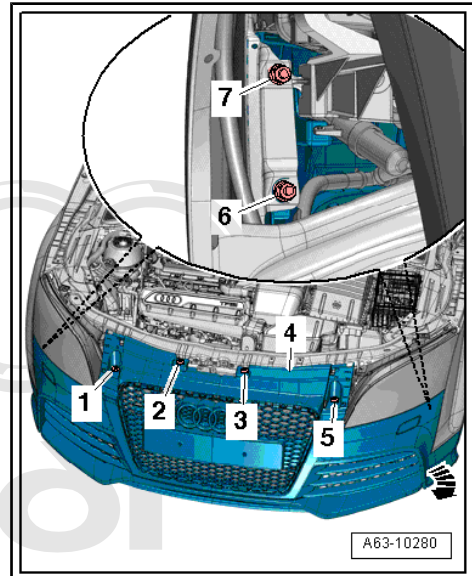


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- Remove wheel spoiler (front left) ⇒ [page 222](#) .
- Release retaining clip -arrow- and detach washer fluid line -1- from connecting piece -2-.
- Seal connecting piece of washer fluid line with clean plug from engine bung set -VAS 6122- .
- Remove bolts -arrows-.



- Remove bumper covers (top) ⇒ [page 218](#) .
- Remove bolts -1, 2, 3, 5- and unscrew nuts -6- and -7-.
- Detach side section of bumper from guide on wing -arrow-.
- Detach bumper -4- towards front.

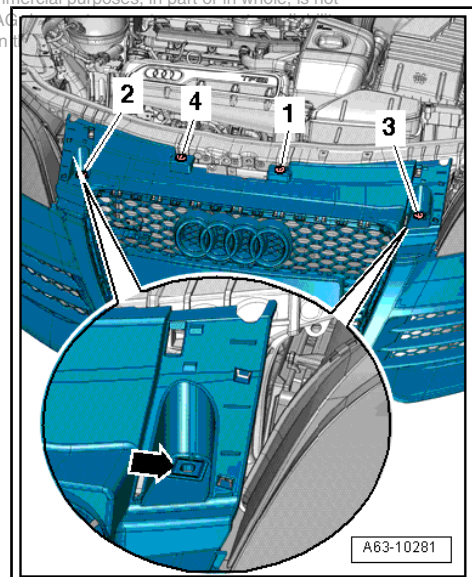


### Installing

- Tightening torques ⇒ [page 155](#) , ⇒ [page 156](#) .

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

- Use marks -arrow- on radiator grille for precise adjustment in longitudinal direction.
- Tighten bolts in sequence -1 ... 4-.



## 2.3 Removing and installing guide for bumper

### Removing

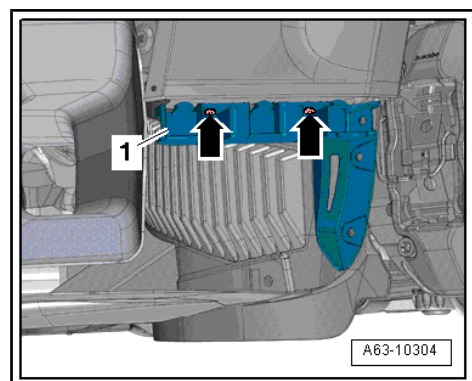
- Remove bumper ⇒ [page 156](#) .
- Unscrew bolts -arrows- and detach guide -1- from wing.

### Installing

- Tightening torques ⇒ [page 155](#)

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

- Install bumper ⇒ [page 156](#) .



## 2.4 Removing and installing air intake grille

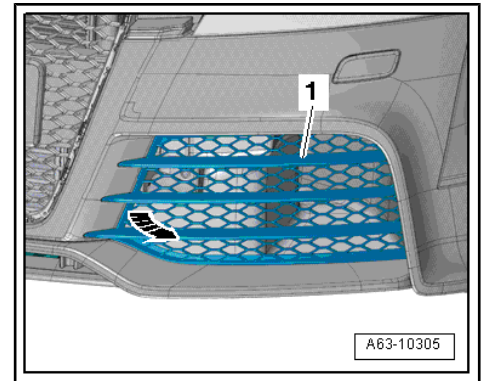
### Removing

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

### Installing

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

- Retaining tabs must engage fully in bumper.



## 2.5 Removing and installing inner cover panel

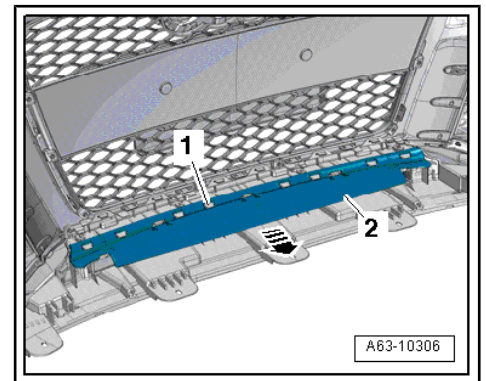
### Removing

- Remove bumper ⇒ [page 156](#) .
- Release retaining tabs -1- and detach inner cover panel -2- -arrow-.

### Installing

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

- Retaining tabs must engage fully.
- Install bumper ⇒ [page 156](#) .



## 2.6 Removing and installing spoiler (top section)

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### Removing

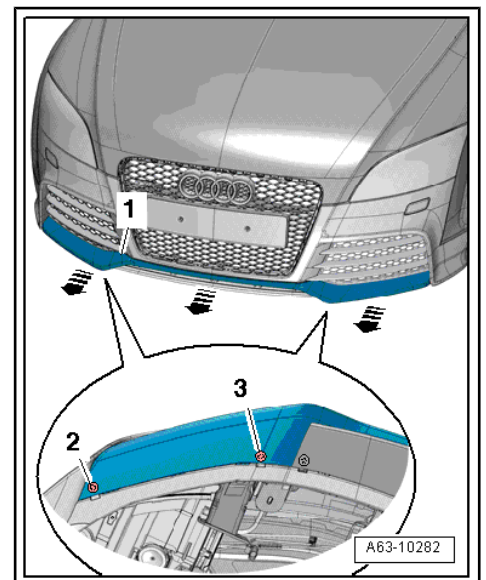
- Remove bolts -2- and -3-.
- Starting at outer edge, pull top section of spoiler -1- off bumper -arrows-.

### Installing

- Tightening torques ⇒ [page 155](#)

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

- When installing, retaining tabs must engage fully in bumper.





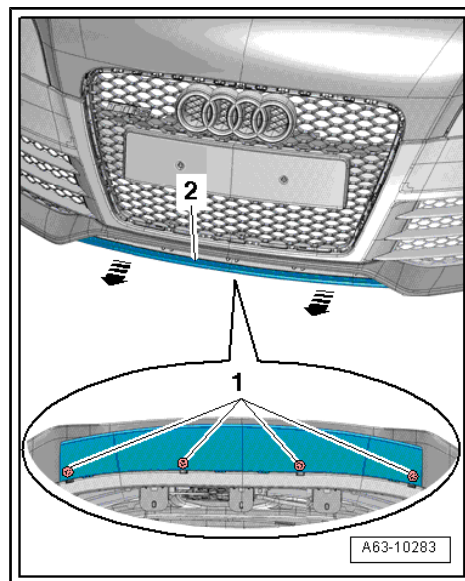
## 2.7 Removing and installing spoiler (bottom section)

### Removing

- Remove bolts -1-.
- Starting at outer edge, pull bottom section of spoiler -2- off bumper -arrows-.

### Installing

- Tightening torques ⇒ [page 155](#)
- Installation is carried out in the reverse order; note the following:
- When installing, retaining tabs must engage fully in bumper.



## 2.8 Impact bar and impact absorber - exploded view

### 1 - Impact absorber

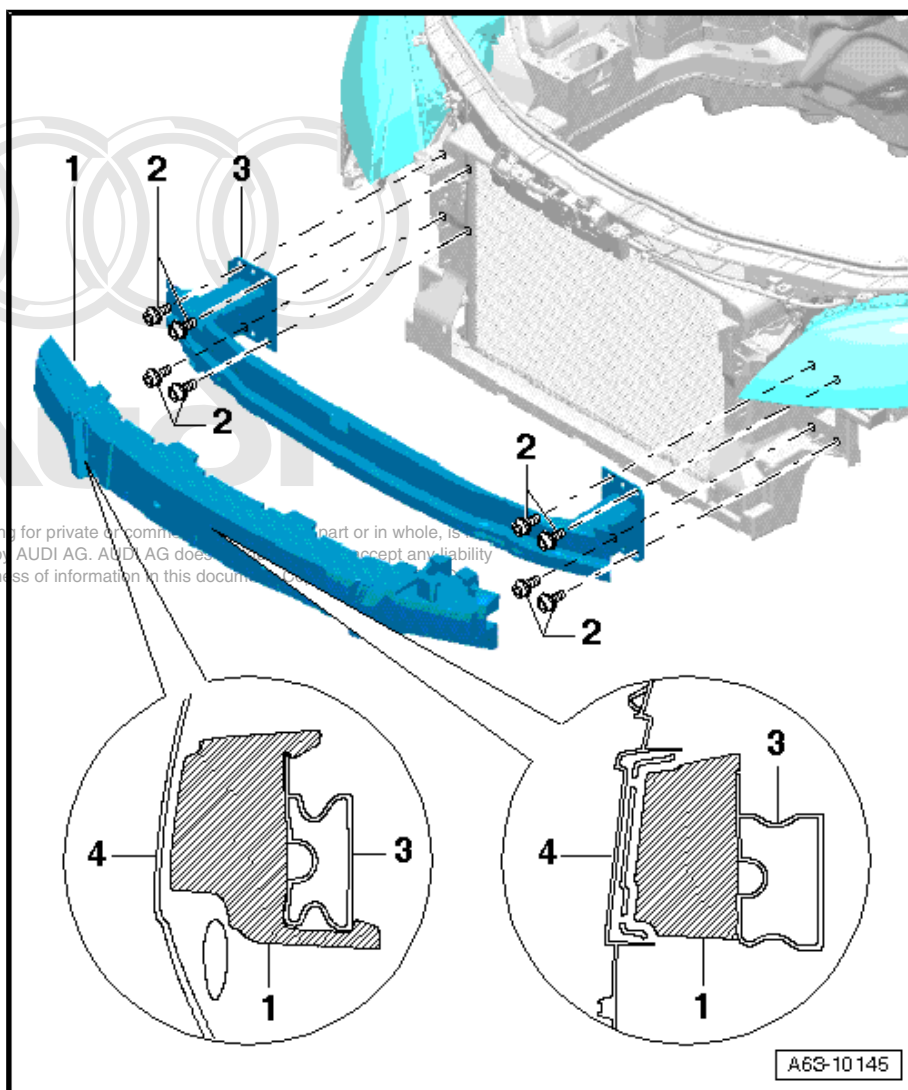
- Removing and installing  
⇒ [page 161](#)

### 2 - Bolt

- 30 Nm

### 3 - Impact bar

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



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## 4 - Bumper

### 2.9 Removing and installing impact absorber

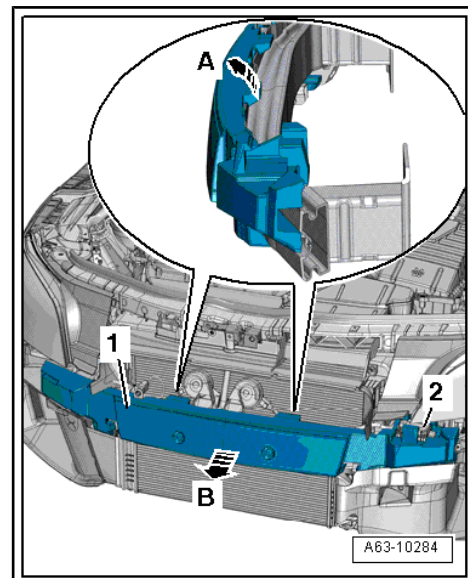
#### Removing

- Remove bumper ⇒ [page 156](#) .
- If installed, remove garage door operation control unit -J530- -item 2- ⇒ Rep. Gr. 96 .
- Disengage impact absorber -1- from impact bar -arrow A- and detach towards front -arrow B-.

#### Installing

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

- Install garage door operation control unit -J530- ⇒ Rep. Gr. 96 .
- Install bumper ⇒ [page 156](#) .



### 2.10 Removing and installing impact bar

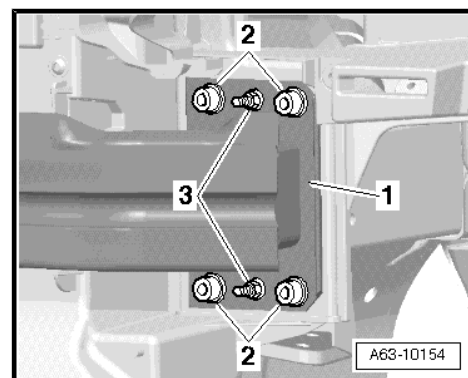
#### Removing

- Remove impact absorber ⇒ [page 161](#) .
- Remove bolts -2- and detach lock washers -3-.
- Detach impact bar -1-.

#### Installing

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

- Tightening torques ⇒ [page 160](#)
- Install impact absorber ⇒ [page 161](#) .



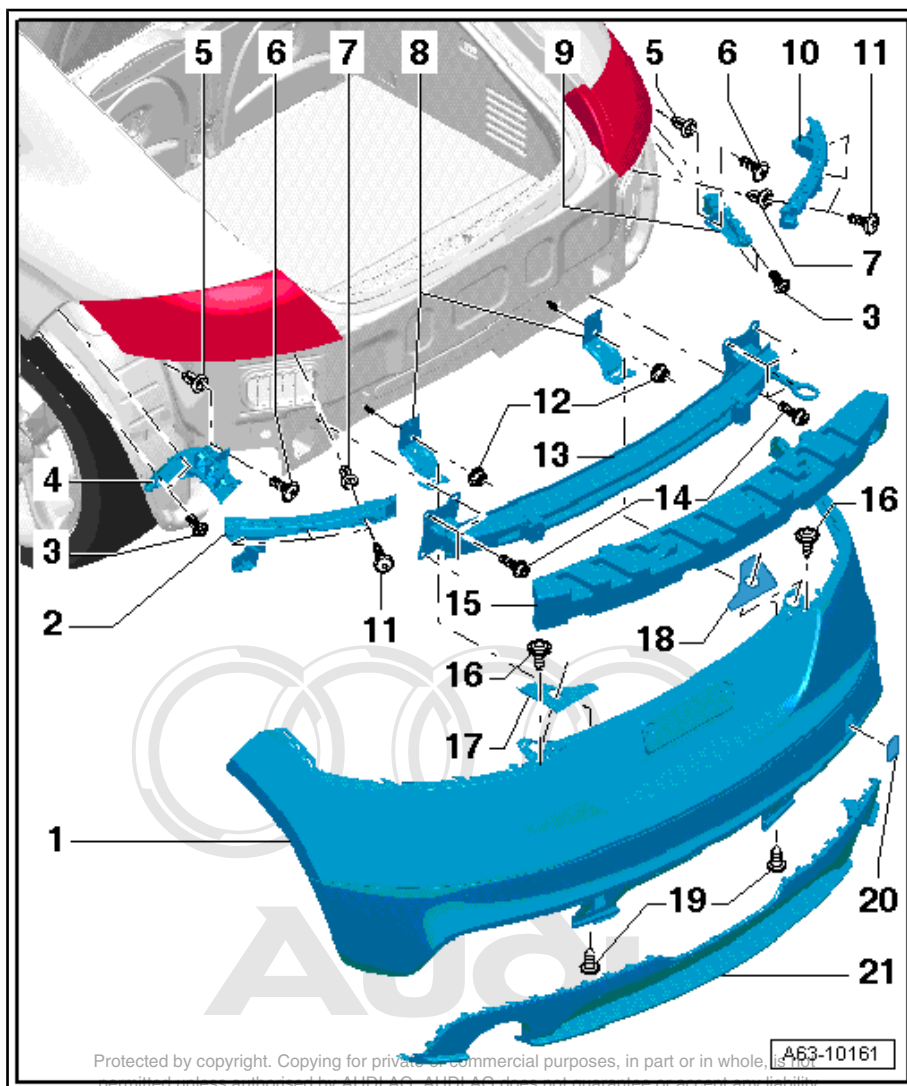


### 3 Bumper (rear) - Audi TT

### 3.1 Removing and installing bumper (rear) - exploded view

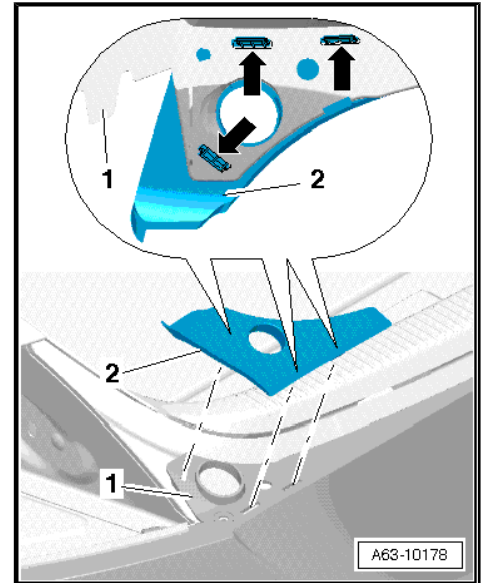
- 1 - Bumper**
  - ☐ Removing ⇒ [page 164](#)
- 2 - Inner guide (left-side)**
- 3 - Bolt**
  - ☐ 2.5 Nm
- 4 - Outer guide (left-side)**
- 5 - Clip**
  - ☐ Inserted in side panel
- 6 - Bolt**
  - ☐ 2.5 Nm
- 7 - Clip**
  - ☐ Inserted in side panel
- 8 - Bracket**
  - ☐ Removing
- 9 - Inner guide (right-side)**
- 10 - Outer guide (right-side)**
- 11 - Bolt**

2.5 Nm
- 12 - Nut**
  - ☐ 4 Nm
- 13 - Impact bar**
- 14 - Bolt**
  - ☐ 23 Nm
- 15 - Impact absorber**
  - ☐ Attached to impact bar
- 16 - Bolt**
  - ☐ 2.5 Nm
- 17 - Trim strip (left-side)**
  - ☐ Removing ⇒ [page 163](#)
- 18 - Trim strip (right-side)**
- 19 - Bolt**
  - ☐ 2.5 Nm
- 20 - Cover for towing hook**
- 21 - Trim cover (bottom)**



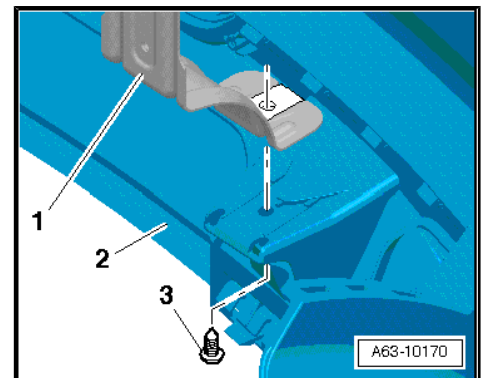
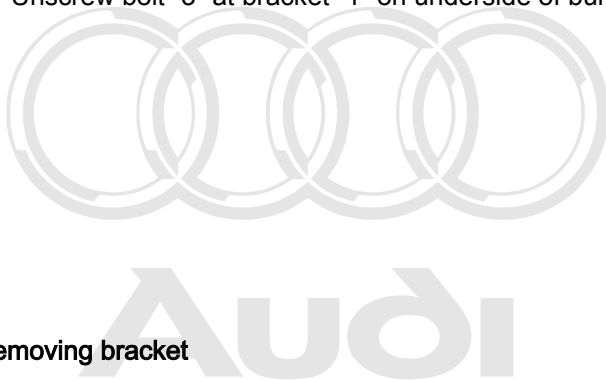
### Removing trim strip

- Unclip trim strip from fasteners -arrows- at top of bumper.



### Bolt connection for bumper (bottom)

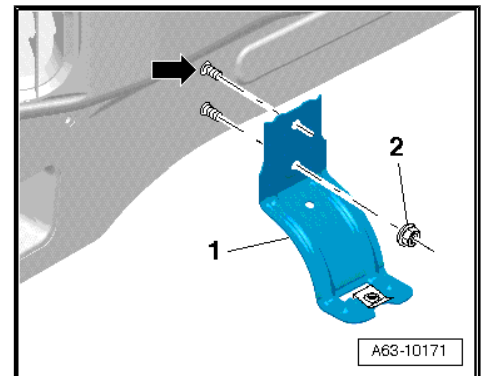
- Unscrew bolt -3- at bracket -1- on underside of bumper.



### Removing bracket

- ◆ Nut -2- = 4 Nm

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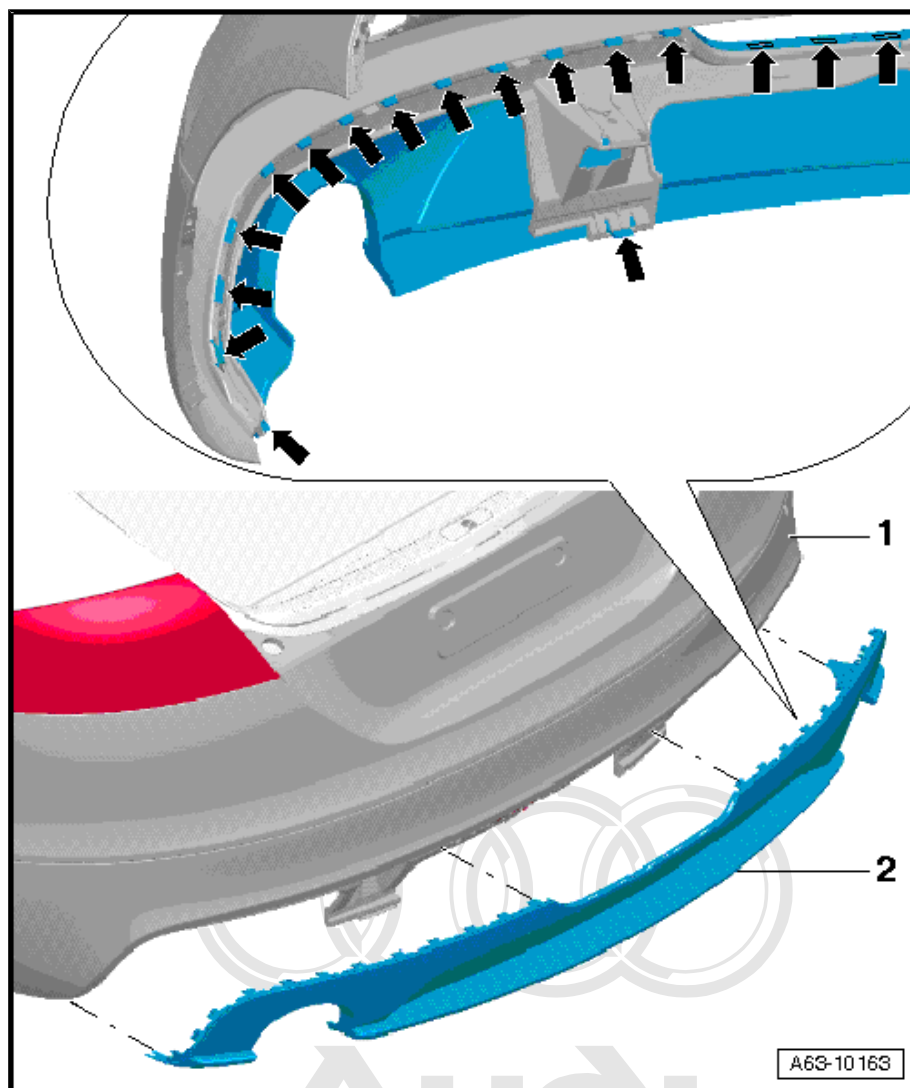


### Removing trim cover (bottom)

### 1 - Bumper (rear)

### 2 - Trim cover (bottom)

- ☐ To remove, bumper does not have to be detached.
- ☐ Unclip gradually from bumper and detach to rear.



## 3.2 Removing bumper (rear)



### Note

*Before removing the bumper, the tail light clusters must be removed.*

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### 1 - Bolts

- 1.5 Nm

### 2 - Bumper (rear)

- To remove, unscrew bolts -1- at wheel housing liner, bolts -3- beneath trim strip  
⇒ [Item 17 \(page 162\)](#) and bolts -5- at bracket -6-.
- First disengage bumper from outer guide, then pull to rear out of inner guide.

### 3 - Bolt

- Removing trim strip  
⇒ [page 163](#)

- 2.5 Nm

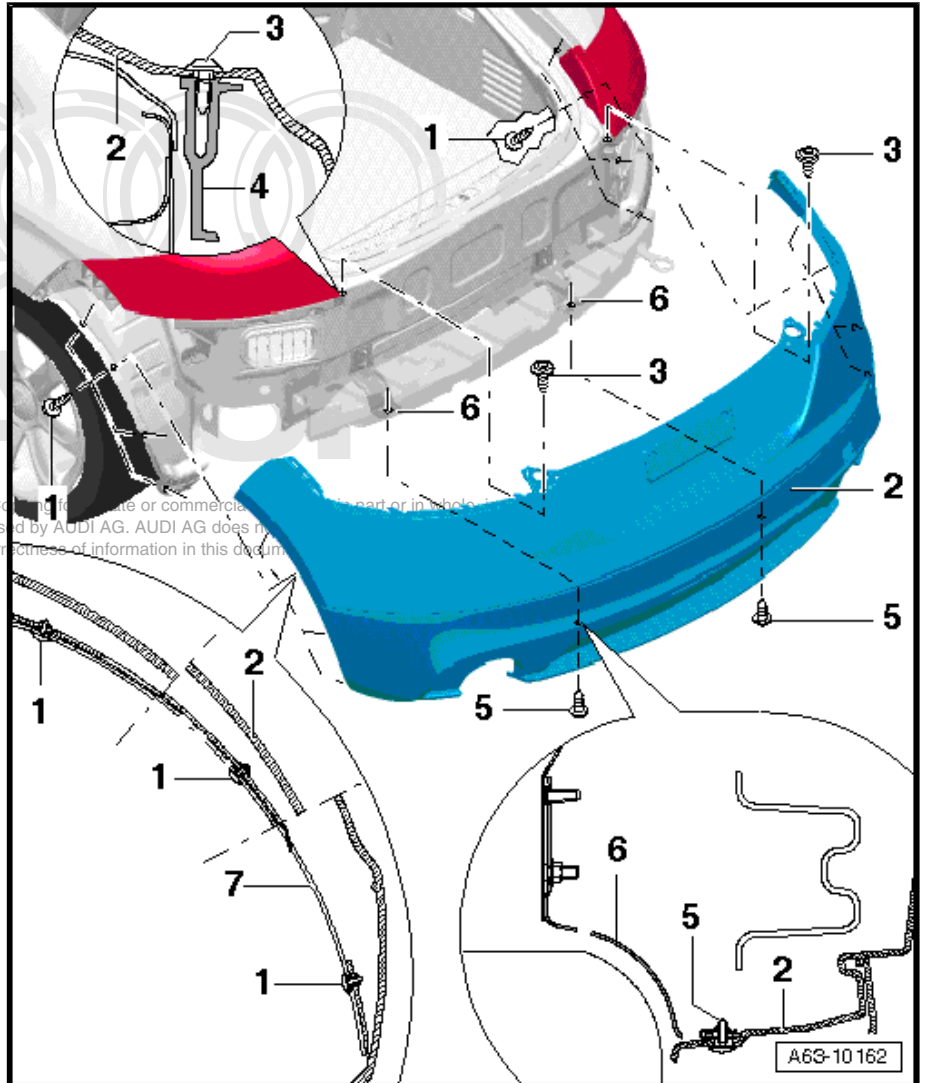
### 4 - Inner guide

### 5 - Bolt

- 2.5 Nm

### 6 - Bracket

### 7 - Wheel housing liner



### Removing outer guide

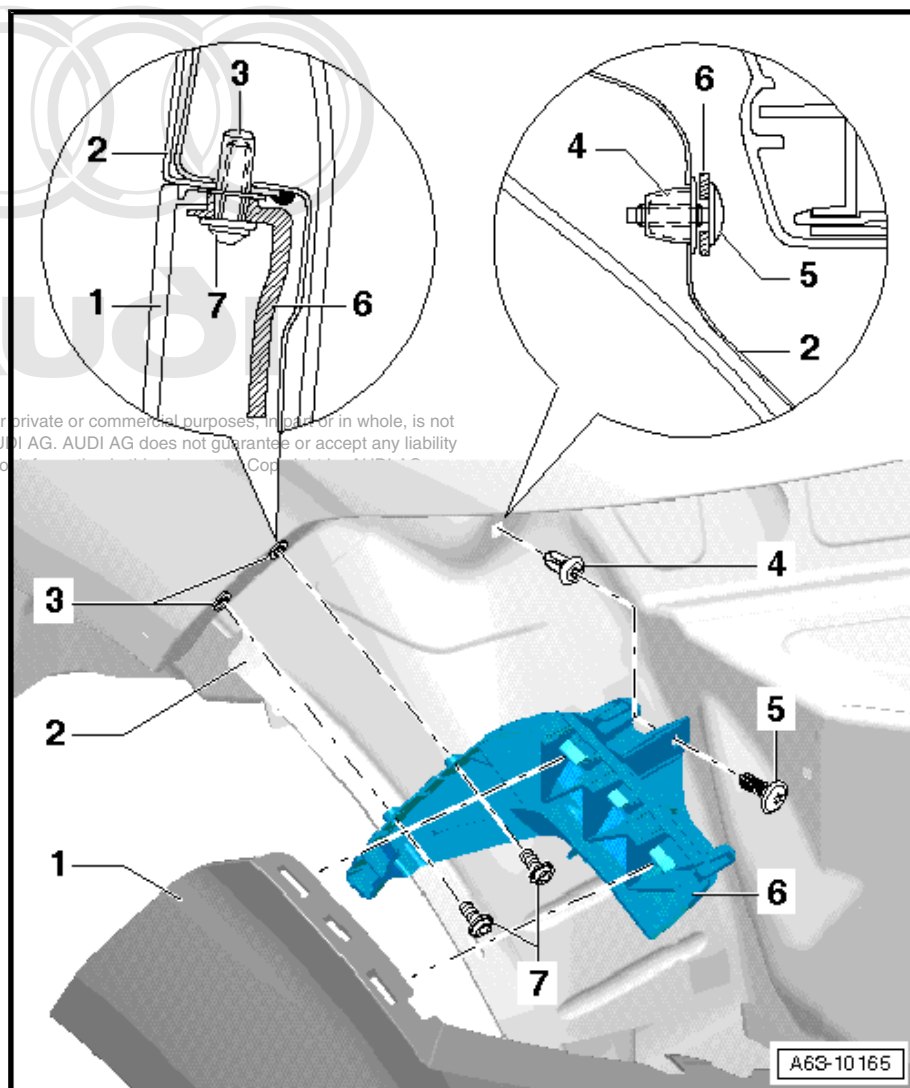
**1 - Bumper (rear)**
☐ Removed

**2 - Side panel**
**3 - Pop rivet nut**
☐ Riveted into side panel

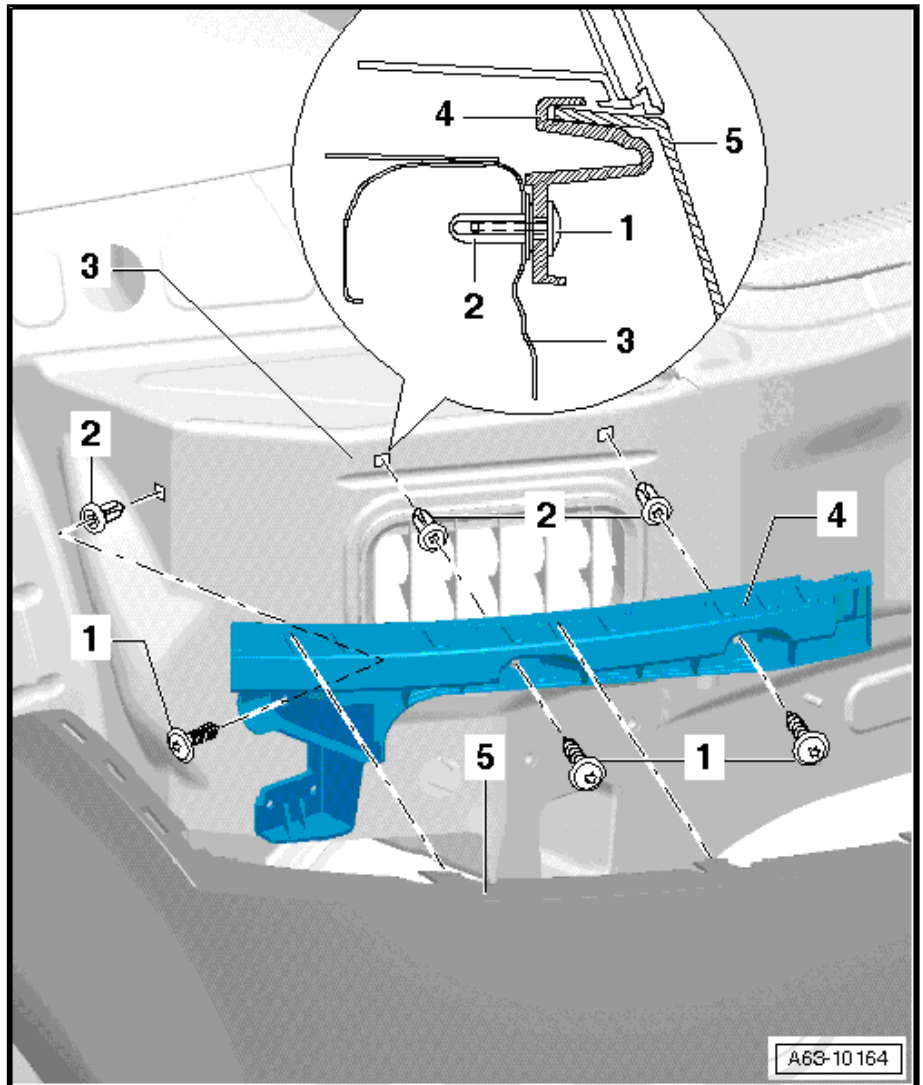
**4 - Clip**
**5 - Bolt**
☐ 2.5 Nm

**6 - Guide**

– When installing, observe sequence for bolting on from bottom to top.

**7 - Bolt**
☐ 2.5 Nm

**Removing inner guide**

- 1 - Bolt
  - 2.5 Nm
- 2 - Clip
  - Inserted in side panel
- 3 - Side panel
- 4 - Inner guide
  - When installing, observe sequence for bolting on from inside to outside.
- 5 - Bumper (rear)
  - Removed



Audi

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### 3.3 Removing and installing impact bar - exploded view

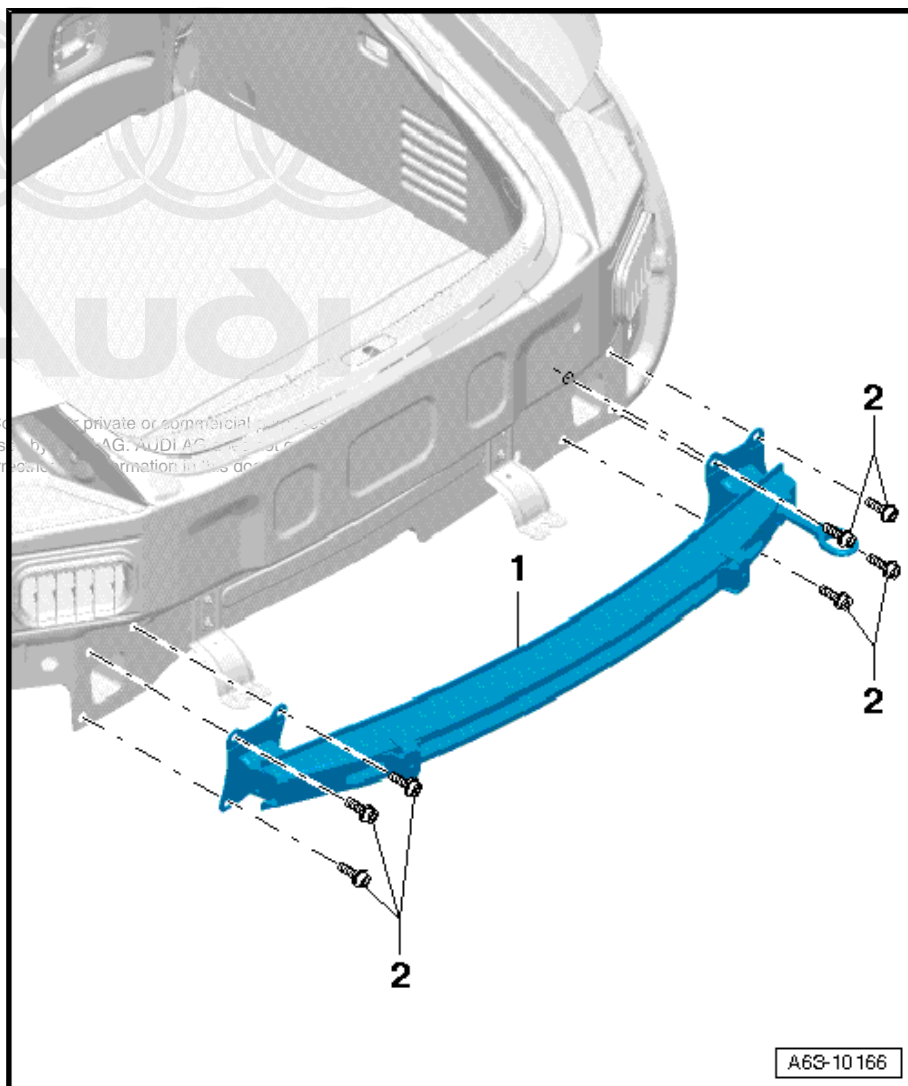
#### 1 - Impact bar

- Note country-specific versions

#### 2 - Bolt

- 23 Nm

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#### Removing impact absorber

### 1 - Impact absorber

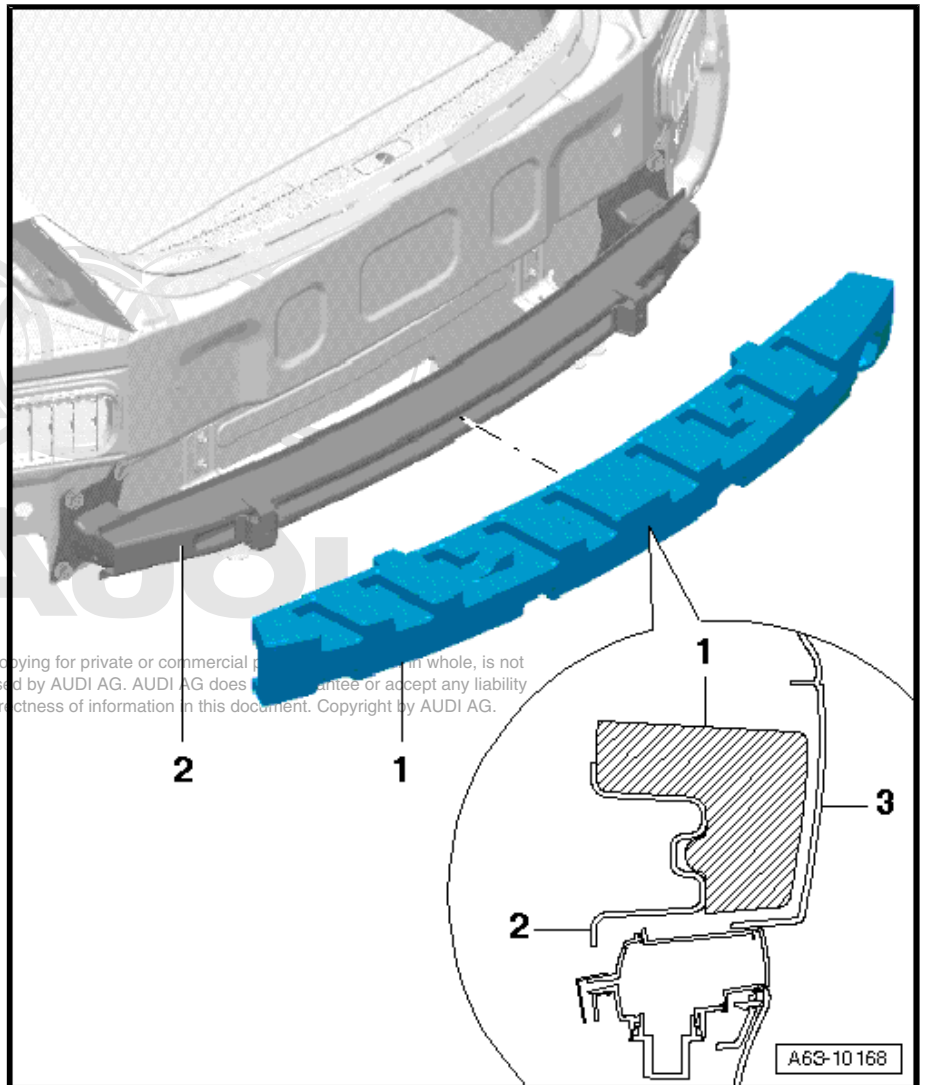
- ☐ Note country-specific versions
- ☐ Slipped onto impact bar

### 2 - Impact bar

### 3 - Bumper

- ☐ Removed

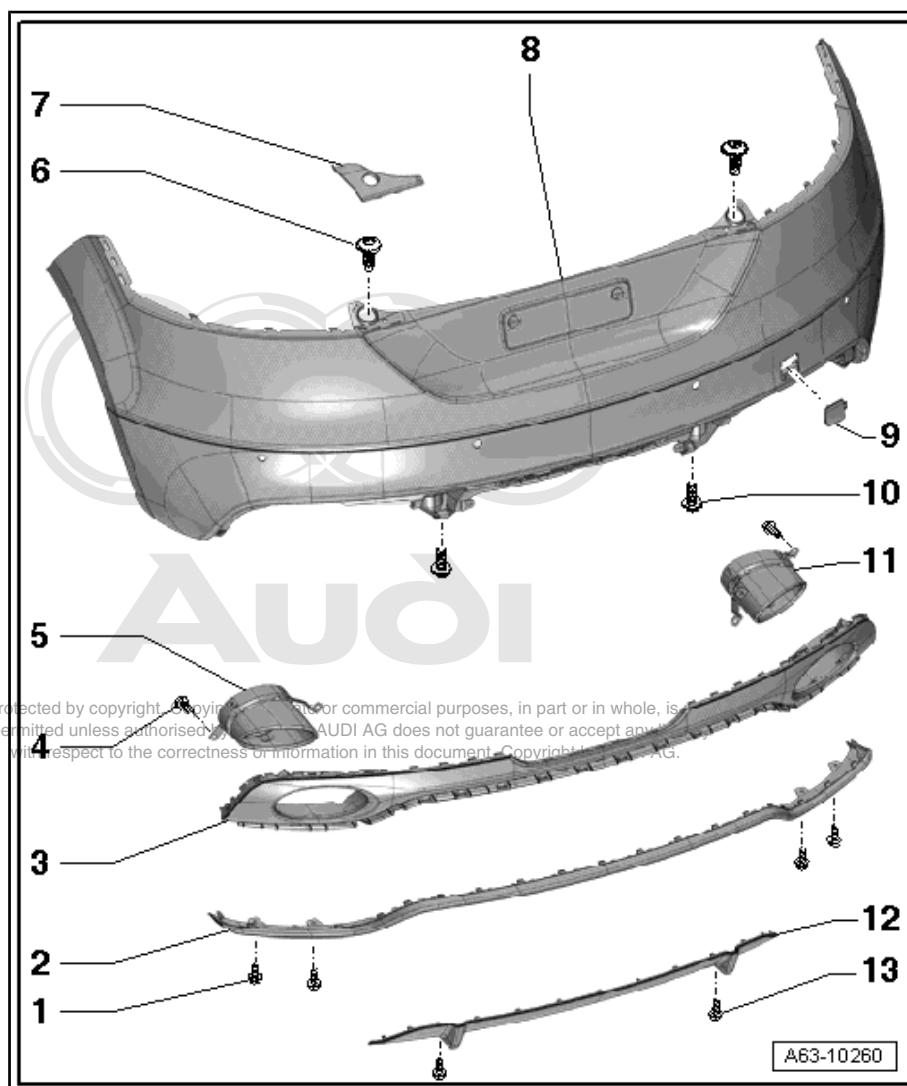
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## 4 Bumper (rear) - Audi TT RS

### 4.1 Bumper (rear) - exploded view

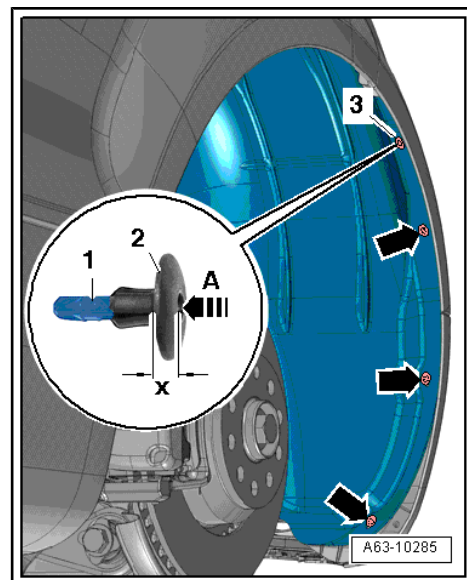
- 1 - Bolt**
  - ☐ 4x
  - ☐ 2 Nm
- 2 - Spoiler for bumper**
  - ☐ Removing and installing  
⇒ [page 173](#)
- 3 - Bumper trim panel (bottom)**
  - ☐ Removing and installing  
⇒ ["4.3 Removing and installing spoiler for bumper", page 173](#)
- 4 - Bolt**
  - ☐ 4x
  - ☐ 2 Nm
- 5 - Exhaust trim (left-side)**
  - ☐ Removing and installing  
⇒ [page 174](#)
- 6 - Bolt**
  - ☐ 2x
  - ☐ 2.5 Nm
- 7 - Trim strip**
  - ☐ For bumper
  - ☐ Removing and installing  
⇒ ["4.2 Removing and installing bumper \(rear\)", page 171](#)
- 8 - Bumper**
  - ☐ Removing and installing  
⇒ [page 171](#)
- 9 - Cap**
  - ☐ For towing eye
- 10 - Bolt**
  - ☐ 2x
  - ☐ 2.5 Nm
- 11 - Exhaust trim (right-side)**
  - ☐ Removing and installing ⇒ [page 174](#)
- 12 - Diffuser trim**
  - ☐ Removing and installing ⇒ [page 173](#)
- 13 - Bolt**
  - ☐ 2x
  - ☐ 2 Nm



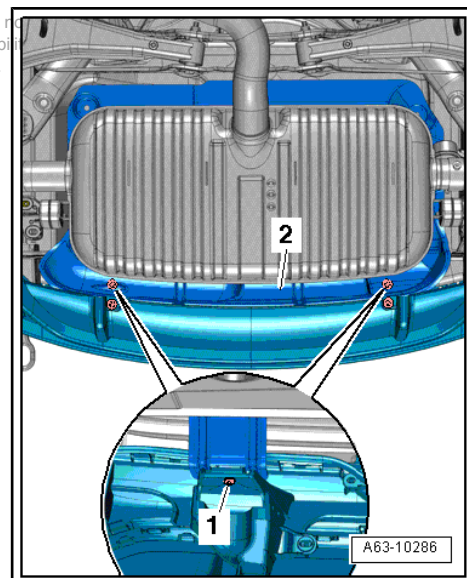
## 4.2 Removing and installing bumper (rear)

### Removing

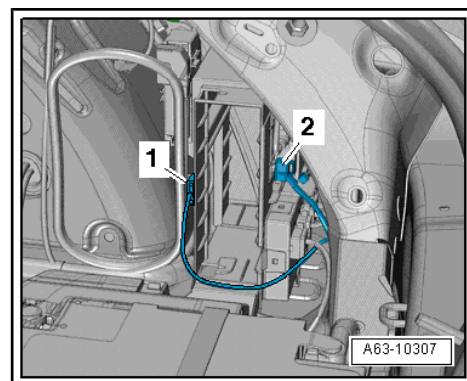
- Unscrew bolts -arrows- at wheel housing liner and detach fastener -3-.
- To remove fastener, carefully press locking pin -1- into fastener -arrow A- by dimension -x- until it engages audibly.
- Dimension -x- = 5 mm
- Pull out released fastener -2- together with locking pin.



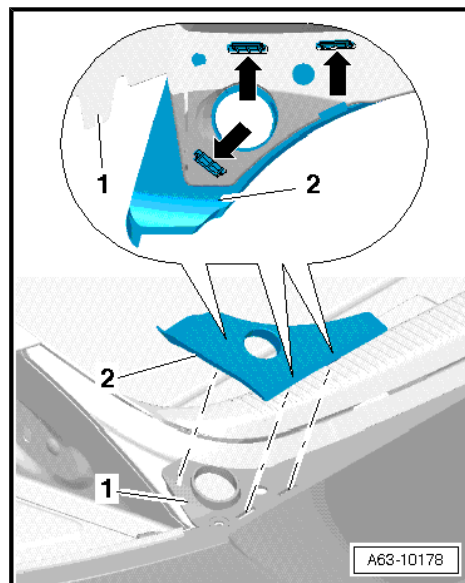
- Bend back heat shield -2- slightly in area of bolts.
- Remove bolt -1-.



- Remove tail light (left and right) ⇒ Rep. Gr. 94 .
- Remove luggage compartment side trim (right-side) ⇒ Rep. Gr. 70 .
- Unplug electrical connector -1- for rear fog light.
- On vehicles with parking aid, unplug electrical connector -2-.



- Unclip trim strip -2- from fasteners -arrows- at top of bumper -1- and detach.



- Remove bolt -2-.
- Pull bumper off body towards side -arrow A-.
- Release retaining catches -1- and release bumper from clips.
- Release retaining catches -3- and release bumper from clips at rear guide.


**Note**

*If retaining catches -3- cannot be released, carefully lift strip on guide -arrow B-.*

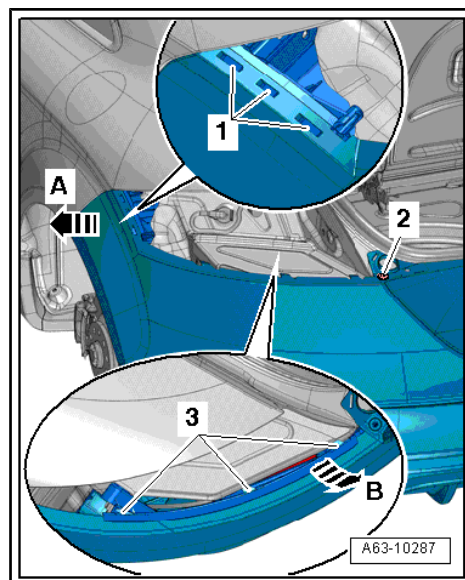
- Guide electrical wiring harness out of opening in body and detach bumper.

**Installing**

- Tightening torques ⇒ [page 170](#)

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

- Bumper must engage fully.
- Install tail light (left and right) ⇒ Rep. Gr. 94 .
- Install wheel housing liner (rear) ⇒ [page 240](#) .

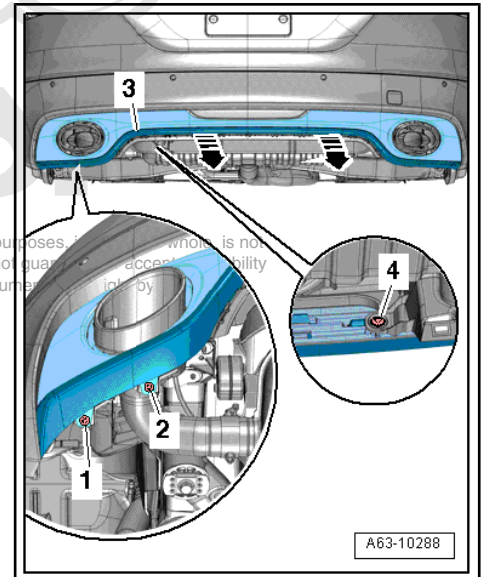


## 4.3 Removing and installing spoiler for bumper

### Removing

- Remove diffuser trim ⇒ [page 173](#) .
- Unscrew bolts -4- (left and right).
- Remove bolts -1- and -2- from trim (bottom).
- Pull trim (bottom) -3- off bumper (rear) -arrows-.

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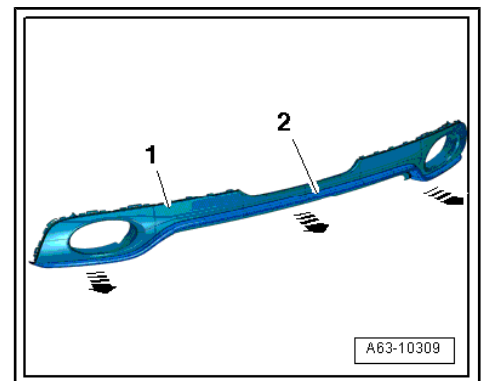
- Pull spoiler -2- off trim (bottom) -1- -arrows-.

### Installing

- Tightening torques ⇒ [page 170](#)

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

- Spoiler and trim (bottom) must engage fully.
- Install diffuser trim ⇒ [page 173](#) .



## 4.4 Removing and installing diffuser trim

### Removing

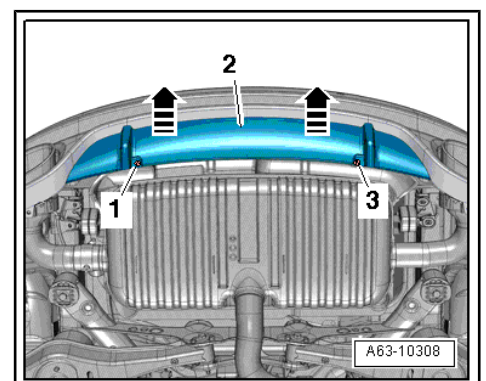
- Remove bolts -1- and -3-.
- Pull off diffuser trim -2- -arrows-.

### Installing

- Tightening torques ⇒ [page 170](#)

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

- Diffuser trim must engage fully.

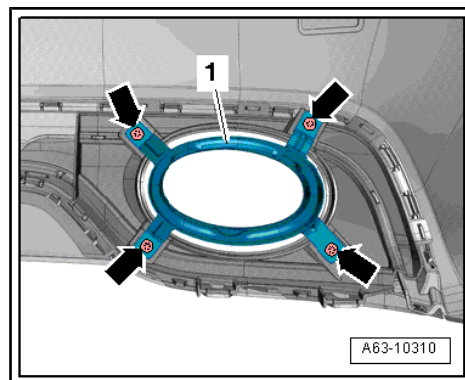




## 4.5 Removing and installing exhaust trim panels

### Removing

- Remove bumper (rear) ⇒ [page 171](#) .
- Remove bolts -arrows-.
- Detach exhaust trim -1- inwards from bumper cover.

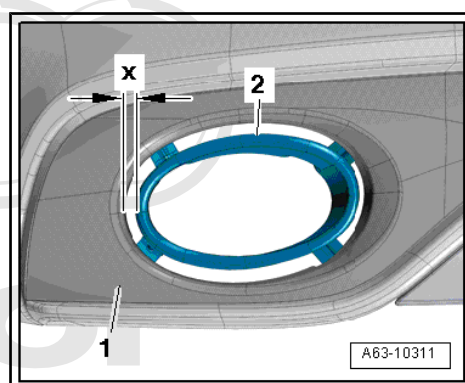


### Installing

- Tightening torques ⇒ [page 170](#)

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

- Check distance between exhaust trim -2- and bumper cover -1-:
- Dimension -x- = even gap all around
- Install bumper (rear) ⇒ [page 171](#) .



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## 4.6 Impact bar, impact absorber and guide - exploded view

### 1 - Impact absorber

- ☐ Removing and installing  
⇒ [page 176](#)

### 2 - Bolt

- ☐ 7x
- ☐ 23 Nm

### 3 - Bolt

- ☐ 2x
- ☐ Tightening torque  
⇒ [Item 10 \(page 170\)](#)

### 4 - Bracket for bumper (left-side)

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

### 5 - Nut

- ☐ 2x
- ☐ 4 Nm

### 6 - Bolt

- ☐ 6x
- ☐ Tightening torque and sequence ⇒ [page 176](#)

### 7 - Inner guide (left-side)

- ☐ Removing and installing  
⇒ [page 178](#)

### 8 - Bolt

- ☐ 2x
- ☐ 2 Nm

### 9 - Retainer for guide

### 10 - Nut

- ☐ 2x
- ☐ Tightening torque and sequence ⇒ [page 176](#)

### 11 - Guide (left-side)

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

### 12 - Bolt

- ☐ 6x
- ☐ Tightening torque and sequence ⇒ [page 176](#)

### 13 - Guide (right-side)

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

### 14 - Inner guide (right-side)

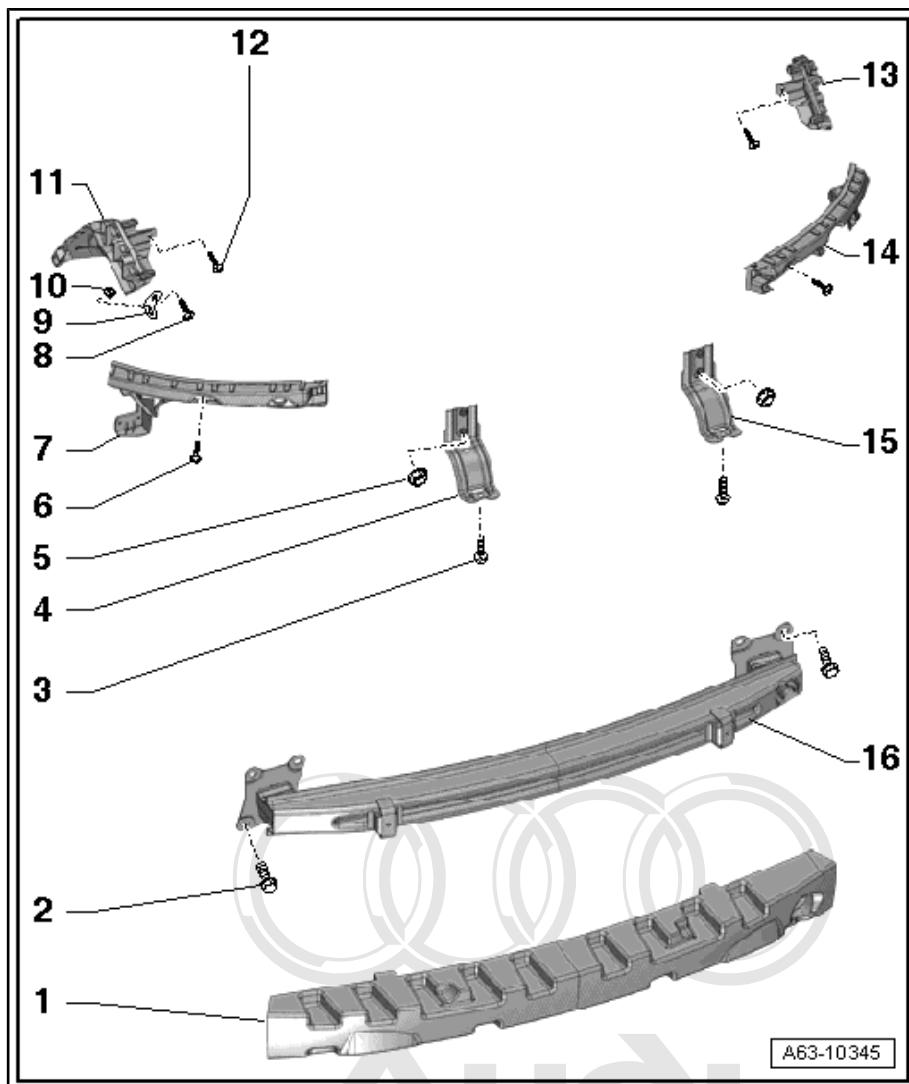
- ☐ Removing and installing ⇒ [page 178](#)

### 15 - Bracket for bumper (right-side)

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

### 16 - Impact bar

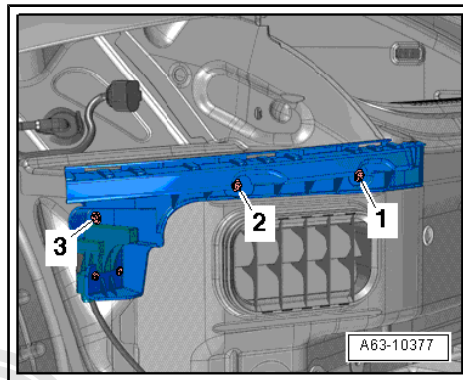
- ☐ Note country-specific versions
- ☐ Removing and installing ⇒ [page 177](#)



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### Tightening torque and sequence for inner guide

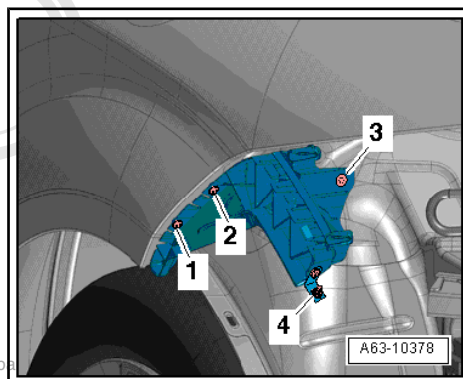
- Tighten bolts to 2.5 Nm in sequence -1 ... 3-.



### Tightening torque and sequence for guide

- Tighten bolts and nut in sequence -1 ... 4-.

- 1 - Bolt, 2.0 Nm
- 2 - Bolt, 2.0 Nm
- 3 - Bolt, 2.5 Nm
- 4 - Nut, 6.5 Nm



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## 4.7 Removing and installing impact absorber

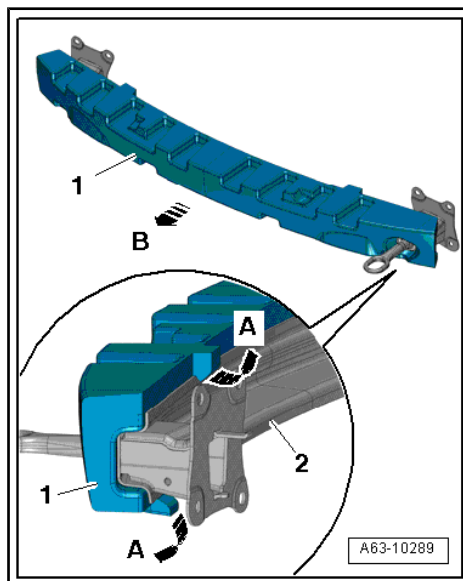
### Removing

- Remove bumper ⇒ [page 171](#) .
- Disengage impact absorber -1- from impact bar -2- -arrows A- and detach towards rear -arrow B-.

### Installing

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

- Install bumper ⇒ [page 171](#) .



## 4.8 Removing and installing impact bar

### Removing

- Remove bumper ⇒ [page 171](#) .
- Remove bolts -arrows-.



#### Note

*Different number of bolts on left and right side*

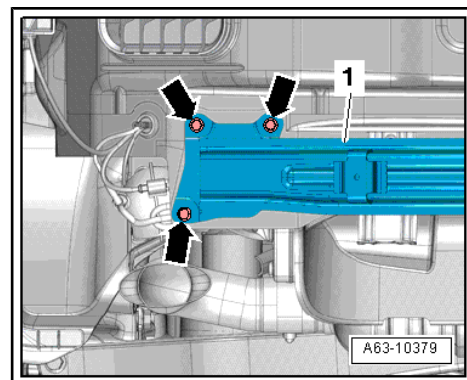
- Detach impact bar -1-.

### Installing

- Tightening torques ⇒ [page 175](#)

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

- Install bumper ⇒ [page 171](#) .



## 4.9 Removing and installing bumper bracket

### Removing

- Remove bumper ⇒ [page 171](#) .
- Unscrew nut -2-.
- Detach bracket -1- for bumper from body.

### Installing

- Tightening torques ⇒ [page 175](#)

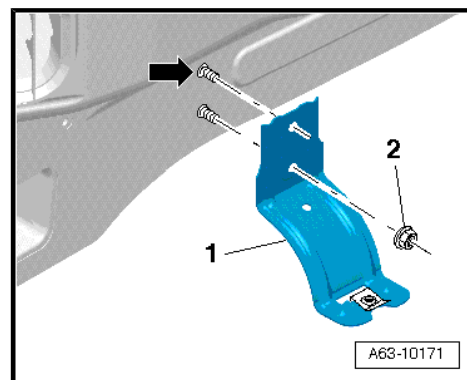
Installation is carried out in the reverse order; note the following:



#### Note

*Stud -arrow- is used to secure bracket.*

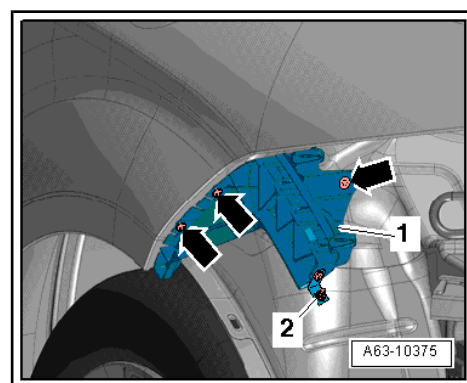
- Install bumper ⇒ [page 171](#) .



## 4.10 Removing and installing guide

### Removing

- Remove bumper ⇒ [page 171](#) .
- Unscrew bolts -arrows- and nut -2-.
- Detach guide -1-.



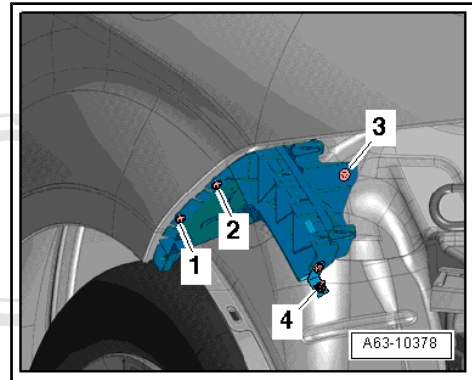
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## Installing

- Tightening torques ➔ [page 176](#)

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

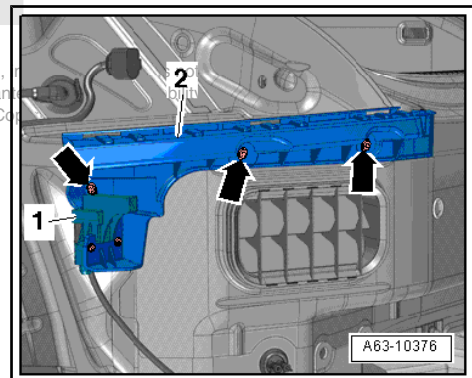
- Tighten bolts and nut in sequence -1 ... 4-.
- Install bumper ➔ [page 171](#) .



## 4.11 Removing and installing inner guide

### Removing

- Remove bumper ➔ [page 171](#) .
- If installed, remove radio-controlled clock receiver J489-item 1- ➔ Rep. Gr. 90 .
- Remove bolts -arrows-.
- Detach inner guide -2-.

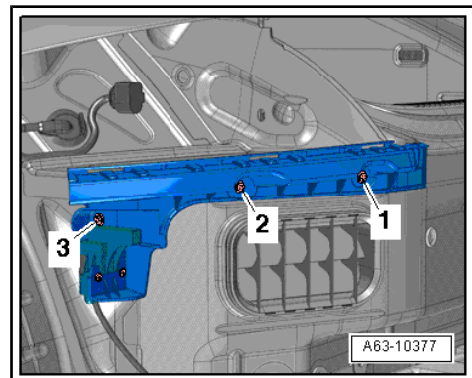


### Installing

- Tightening torques ➔ [page 176](#)

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

- Tighten bolts in sequence -1 ... 3-.
- Install bumper ➔ [page 171](#) .



## 64 – Glazing

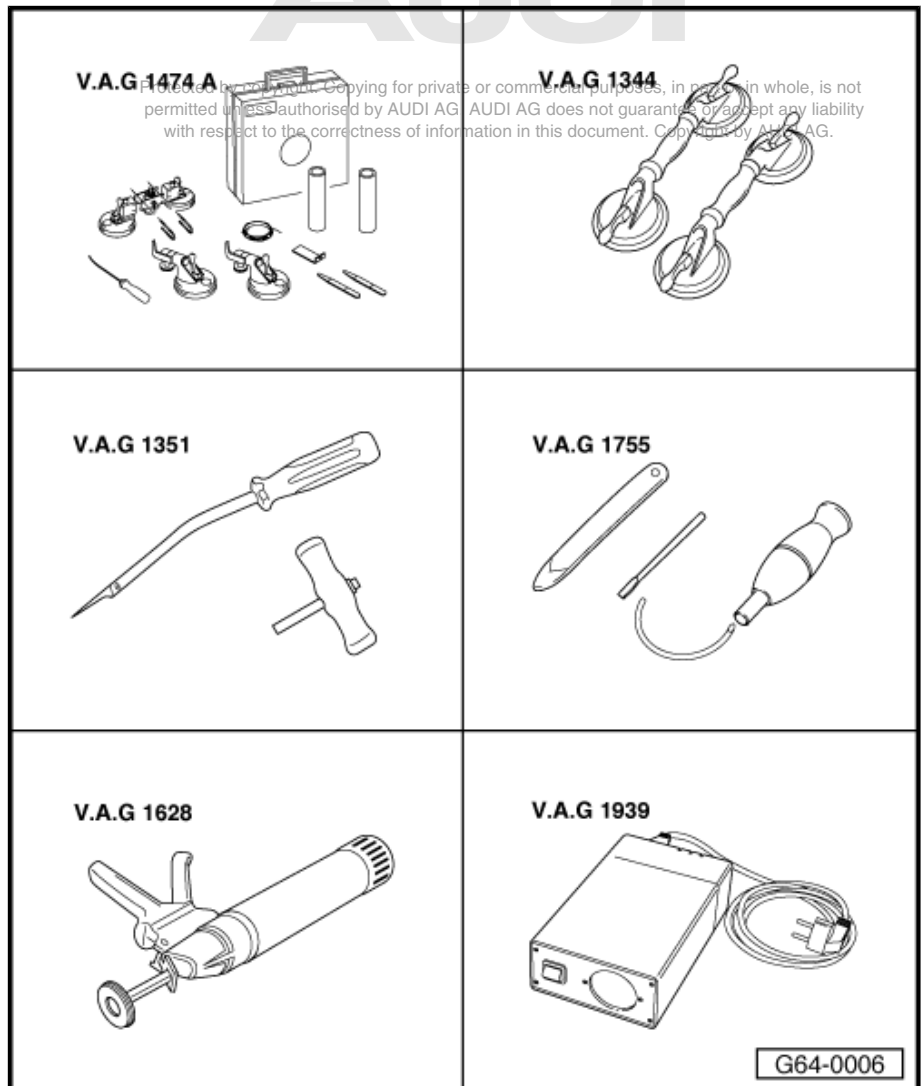
### 1 Flush-bonded windows

#### 1.1 Removing and installing flush-bonded windows

##### General notes

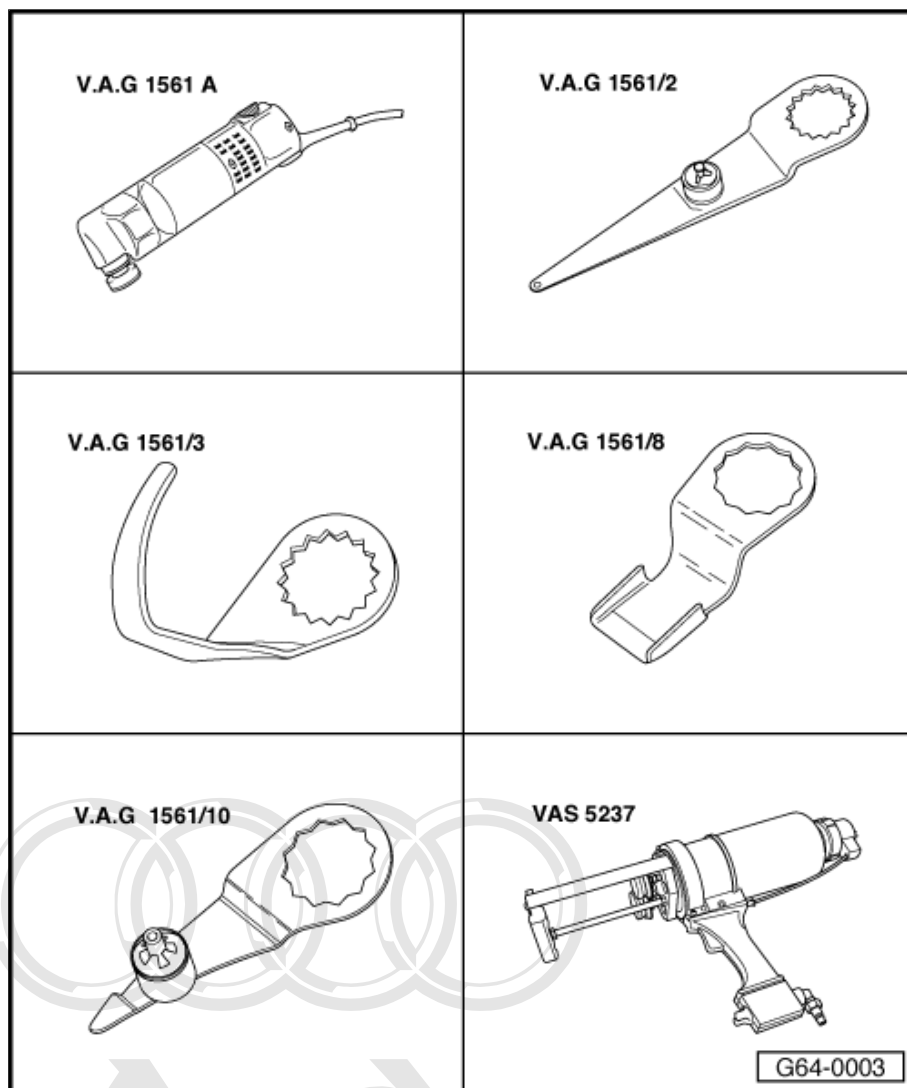
##### Special tools and workshop equipment required

- ◆ Removal kit for flush bonded windows -V.A.G 1474 A- or -V.A.G 1474 B-
- ◆ Suction lifter -V.A.G 1344-
- ◆ Cutting tool -V.A.G 1351-
- ◆ Windscreen removal kit - V.A.G 1755-
- ◆ Hand-cartridge gun -V.A.G 1628-
- ◆ Cartridge heater -V.A.G 1939 A-



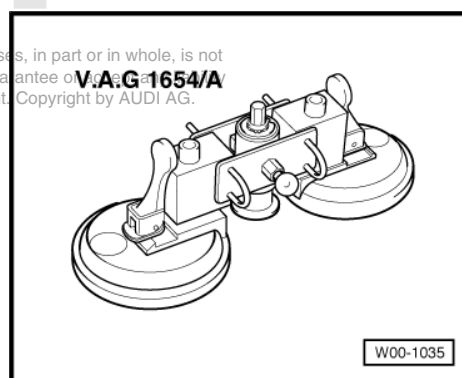


- ◆ Electric cutter -V.A.G 1561 A-
- ◆ Blade (58 mm) -V.A.G 1561/2-
- ◆ Blade (U-shaped) -V.A.G 1561/3-
- ◆ Scraper (25 mm) -V.A.G 1561/8-
- ◆ Blade (offset) -V.A.G 1561/10-
- ◆ Double cartridge gun -VAS 5237-



- ◆ Reel device -V.A.G 1654 A-

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### Repairing windscreen using windscreen repair set -VAS 6092-


- ◆ Windscreens damaged by flying stones can be repaired using the windscreen repair set -VAS 6092- .
- ◆ The damaged areas must not exceed a certain size, and must not be within the main field of vision.
- ◆ For detailed information, refer to the instructions supplied with each kit.

## Materials

- ◆ 2-component window adhesive -DA 004 600 A2- <sup>1) 2)</sup>
- ◆ 1-component window adhesive -DH 009 100 03- <sup>3) 4)</sup>
- ◆ Glass and paint primer -D 009 200 02-
- ◆ Cleaning solution -D 009 401 04-
- ◆ Applicator -D 009 500 25-
- ◆ Adhesive remover -D 002 000 10-
- ◆ Cutting cord -357 853 999-
- ◆ Cutting cord -357 845 955-

- 1) Note minimum drying times ⇒ [page 181](#) .
- 2) To process this material use double cartridge gun -VAS 5237- .
- 3) Heat using cartridge heater -V.A.G 1939 A- according to manufacturer's instructions.
- 4) Miniature 110 ml cartridge for sealing and/or for use when the 400 ml double cartridge is not sufficient.

## Minimum drying times




**WARNING**

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

Window	Vehicle	Adhesive sealant	Drying time in hours
Windscreen	With/without airbag	2-component window glass adhesive -DA 004 600 A2-	3
Rear window - Coupé		2-component window glass adhesive -DA 004 600 A2-	3
Side windows		4-component window adhesive -DH 009 100 03-	3

## Cleaning off adhesive sealant

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



**Caution**

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

## Painted surfaces

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

## Plastic trim

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

## 1.2 Windscreen - exploded view

### Coupé

#### 1 - Windscreen

- Distance from roof: Dimension -a- = 2 mm
- Set side clearance: dimension -c- = 3 mm.

#### 2 - Adhesive bead

- Note minimum drying time ⇒ [page 181](#).
- Apply adhesive directly next to moulding or surround at bottom.
- Dimension -d- = 8 mm ± 2 mm
- Dimension -e- = 23 mm ± 2 mm

#### 3 - Windscreen surround

- Pull off edge of glass to remove
- Before installation, remove all adhesive residue from windscreen surround using a glass scraper
- Cut back bead of glass adhesive, but do not remove completely
- Clean bonding surface with cleaning solution -D 009 401 04-.



#### Caution

**Do not apply primer to adhesive bead after cutting back**

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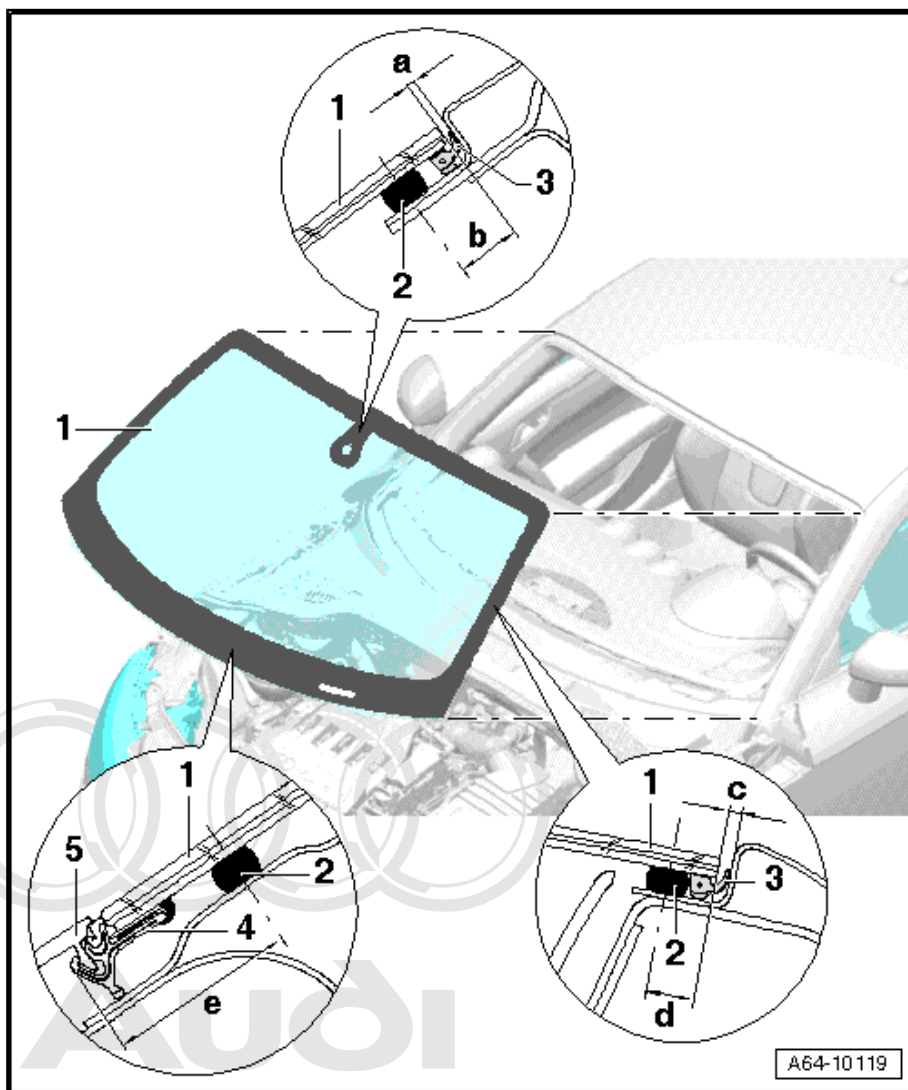
- Apply primer -D 009 200 02- to bonding surface and allow to flash off 10 minutes
- 

#### 4 - Surround for plenum chamber cover

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

#### 5 - Plenum chamber cover

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



## Roadster

### 1 - Windscreen

- ☐ Distance from roof: Dimension -a- = 2 mm
- ☐ Set side clearance: dimension -c- = 3 mm.

### 2 - Adhesive bead

### 3 - Spacer

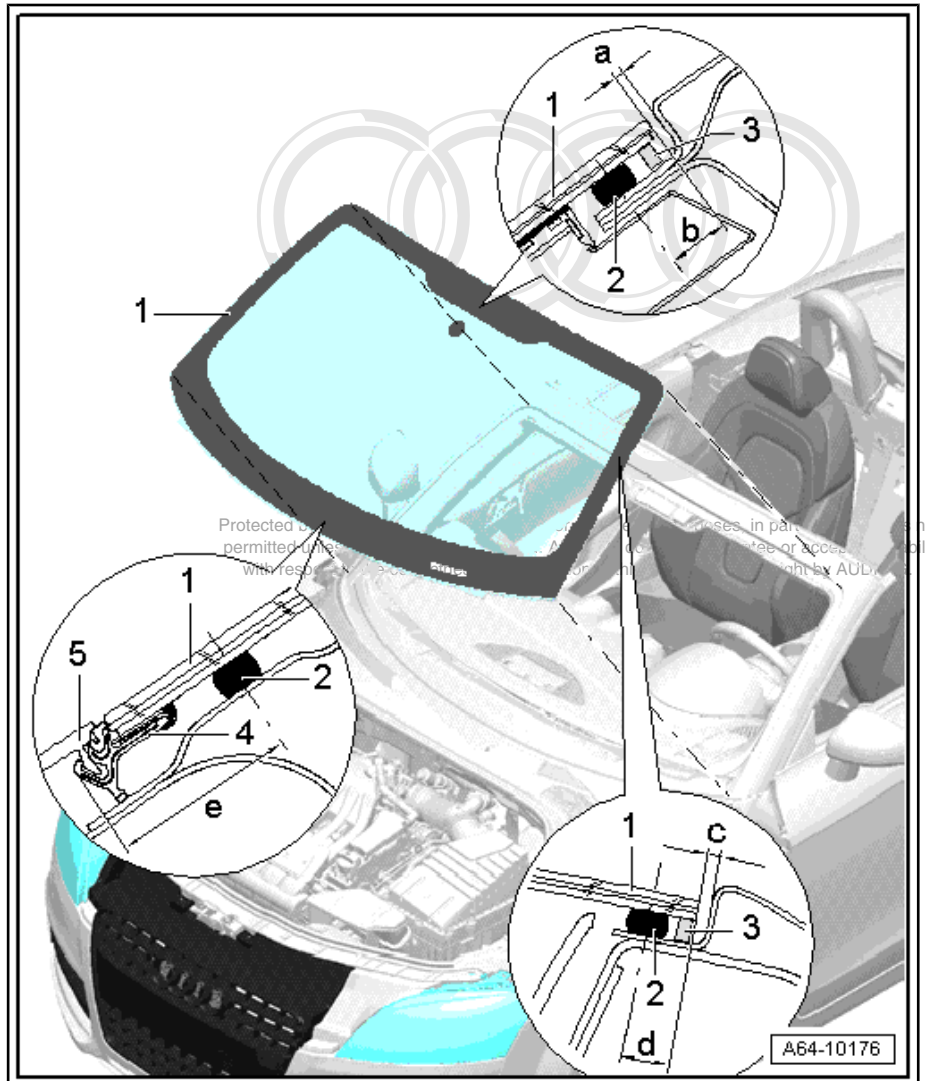
- ☐ Install the same number of spacers in the same positions as on the old windscreen

### 4 - Surround for plenum chamber cover

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

### 5 - Plenum chamber cover

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



## Removing A-pillar seal

### 1 - Guide rail

- ❑ To remove, drill out rivet heads -4- and knock out rivet stems.

### 2 - Sealing bead

- ❑ Not available as a separate replacement part

### 3 - Sealing strip

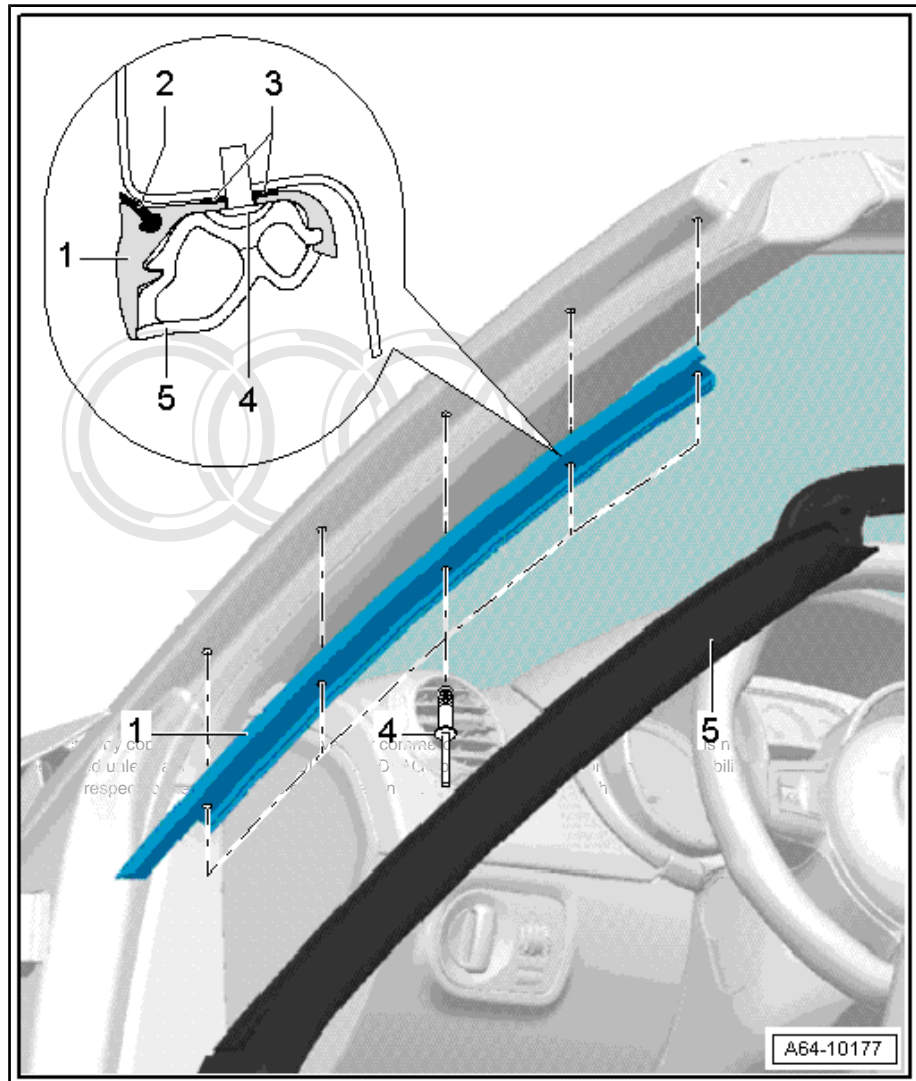
- ❑ Self-adhesive

### 4 - Pop rivet

- ❑ 5x

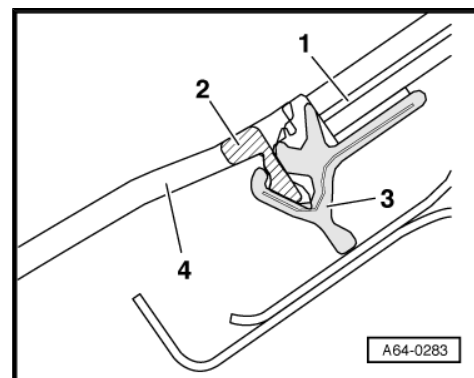
### 5 - A-pillar seal

- ❑ Roof frame trim removed ⇒ Rep. Gr. 70
- ❑ Pull out of guide rails to remove
- ❑ Lubricate seal with soap solution to make installation easier
- ❑ To install, engage in guide rail as shown



### Removing protective beading

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



## 1.3 Removing and installing windscreen

### Removing windscreen

- Remove wiper arms ⇒ Rep. Gr. 92 .
- Remove cowl panel trim.
- Remove sun visors (left-side, centre and right-side) ⇒ Rep. Gr. 70 .
- Remove interior mirror ⇒ Rep. Gr. 68 .

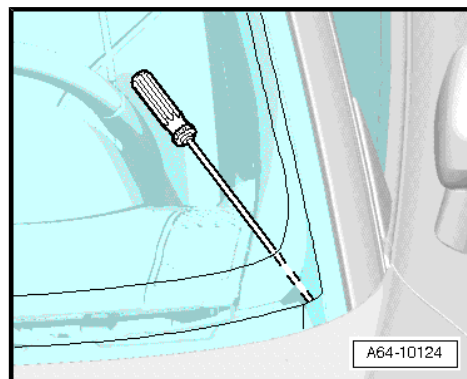
- Remove A-pillar trim (top, left and right) ⇒ Rep. Gr. 70 .



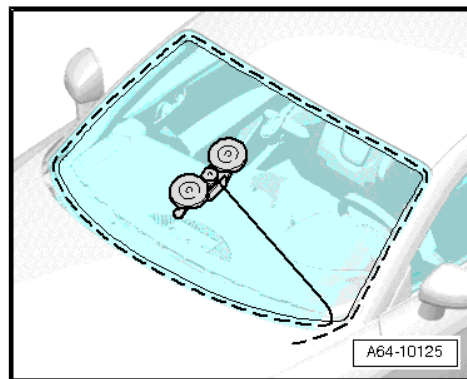
# **WARNING**

***Always wear safety goggles and leather gloves when removing windscreen.***

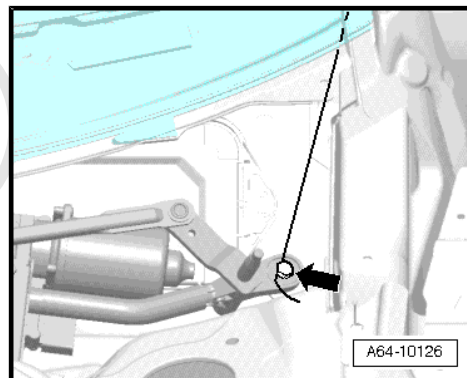
- Using an awl, pierce adhesive bead from inside at bottom left corner of windscreen.
- Insert cutting cord into awl and pull through into vehicle interior.



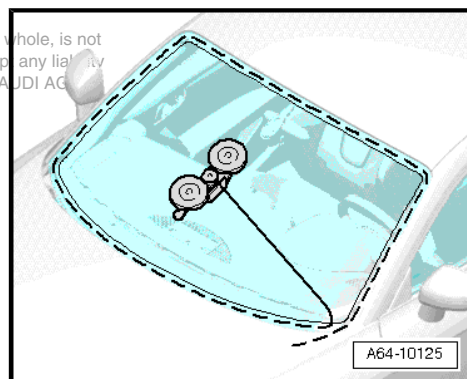
- Position cutting cord under glass all around windscreen.



- Fasten end of cutting cord to bolt for securing wiper arms -arrow-.
- Insert cover -V.A.G 1474/13- between windscreen and dash panel.



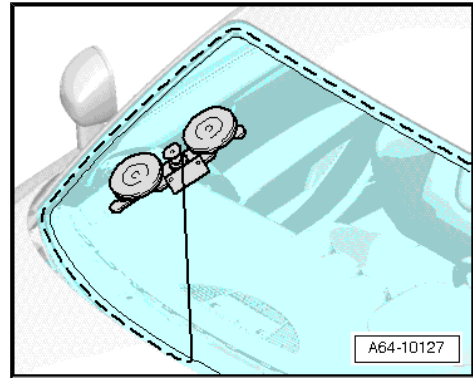
- Secure start of cutting cord in reel device and cut out first section of glass (approx. up to centre of windscreen).



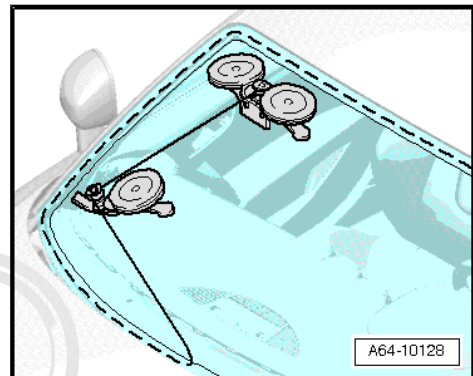
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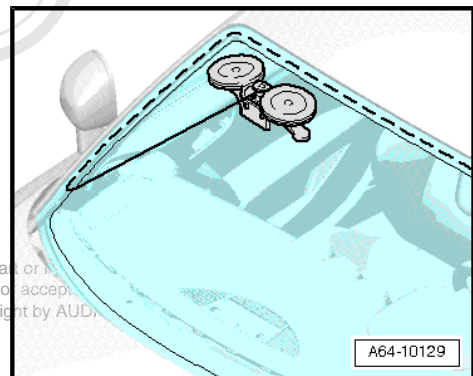
- Move reel device to next position as shown in illustration and continue to cut out glass.



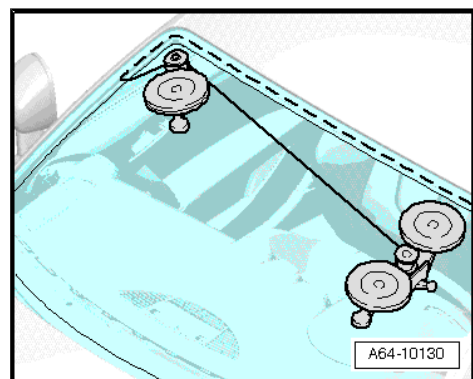
- Move reel device to next position as shown in illustration and fit guide roller.
- Route cutting cord as illustrated.
- Cut out glass up to the point where the cutting cord no longer runs in the guide roller.



- Remove guide roller and continue to cut out glass.



- Move reel device to next position as shown and attach guide roller in top corner of windscreen.
- Route cutting cord as illustrated.
- Insert cover -V.A.G 1474/7- between windscreen and moulded headliner.
- Cut out glass up to the point where the cutting cord no longer runs in the guide roller.

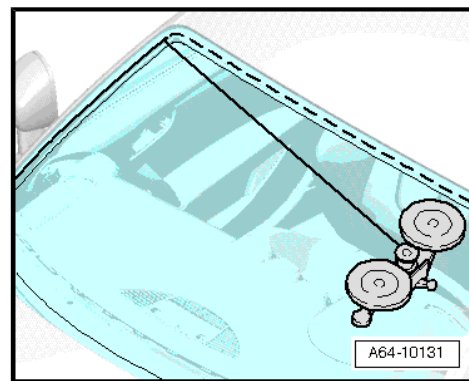


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- Remove guide roller and continue to cut out glass.
- Now repeat these steps in the top left and bottom left corners of the windscreen.
- Completely cut out windscreen following this procedure.
- Remove glass from windscreen opening using double suction lifters.

#### Preparations before installing windscreen

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



#### Note

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



#### Caution

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

#### If installing a new windscreen:

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



#### Caution

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



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### Applying primer:

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

### Windscreen flange:

- If the windscreen flange was damaged, the paintwork must be restored according to specifications in the ⇒ Assessment of vehicle paintwork manual and anti-corrosion coating must be applied according to the ⇒ Surface Treatments/Chemical Materials manual.
- First clean restored area using cleaning solution -D 009 401 04- , then apply glass and paint primer -D 009 200 02- .

### Installing windscreen



#### Note

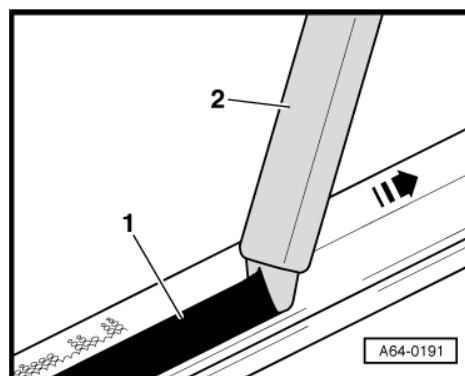
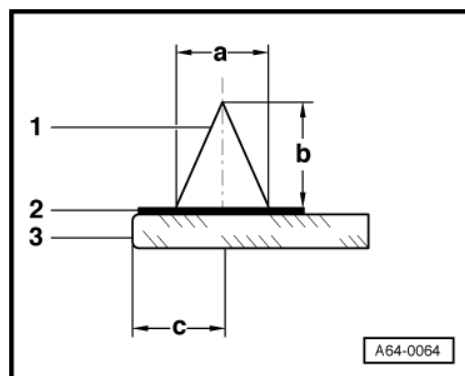
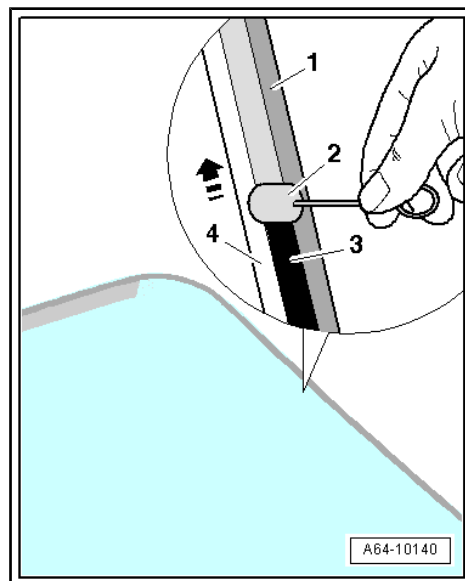
The cross-section of the adhesive bead is determined by the nozzle opening and the rate of application.

### Dimensions for applying adhesive:

- 1 - Adhesive bead
  - 2 - Primer
  - 3 - Windscreen
- Dimension -a- = 8 mm
  - Dimension -b- = 12 mm
  - Dimension -c-: note different distances from edge of windscreen ⇒ [Item 2 \(page 182\)](#)

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



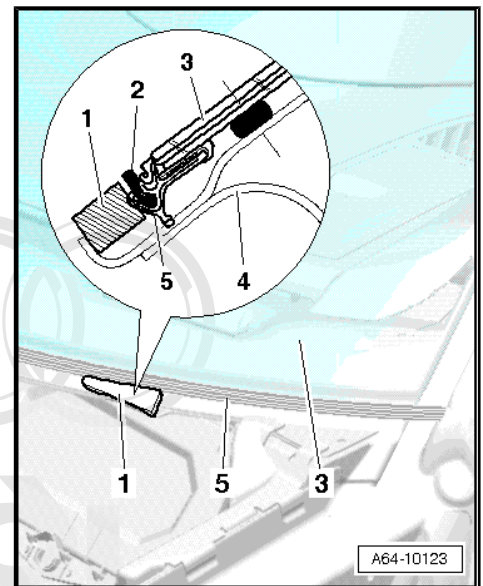
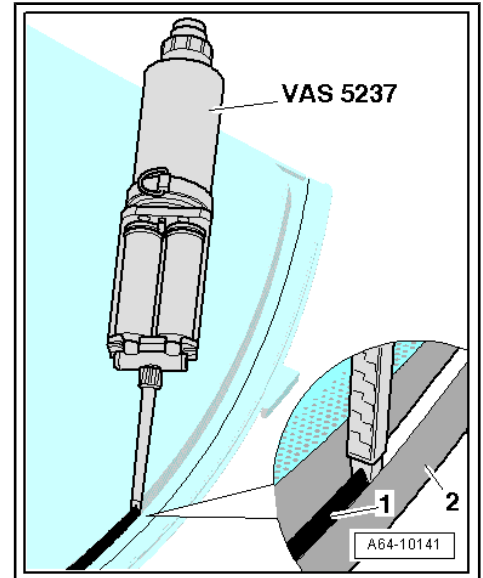
- Apply adhesive sealing material -1- all round windscreen -2-, as shown.
- In the case of an undamaged windscreen apply adhesive to remaining adhesive bead.
- Install windscreen glass in windscreen opening using two double suction lifters.



**Caution**

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

- Align windscreen glass at sides.
- Distance between edge of windscreen and roof frame must be  $5 \text{ mm} \pm 0.5 \text{ mm}$ .
- Insert adjustment wedge -1- between fastening strip -5- and body flange.
- Pull protective strip -2- out of fastening strip before fitting ple-  
num chamber cover.
- Note minimum drying time [⇒ page 181](#) .



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## 1.4 Side window - exploded view

### 1 - Side window

- ❑ When installing, first press in window with locating pin at C-pillar, then insert in window opening and secure with pop rivets in area of B-pillar.
- ❑ If a removed window is to be re-installed, it must be fixed in position at the C-pillar with adhesive tape.

### 2 - Pop rivet

- ❑ To remove side window, drill out rivet heads and drive out rivet stems.

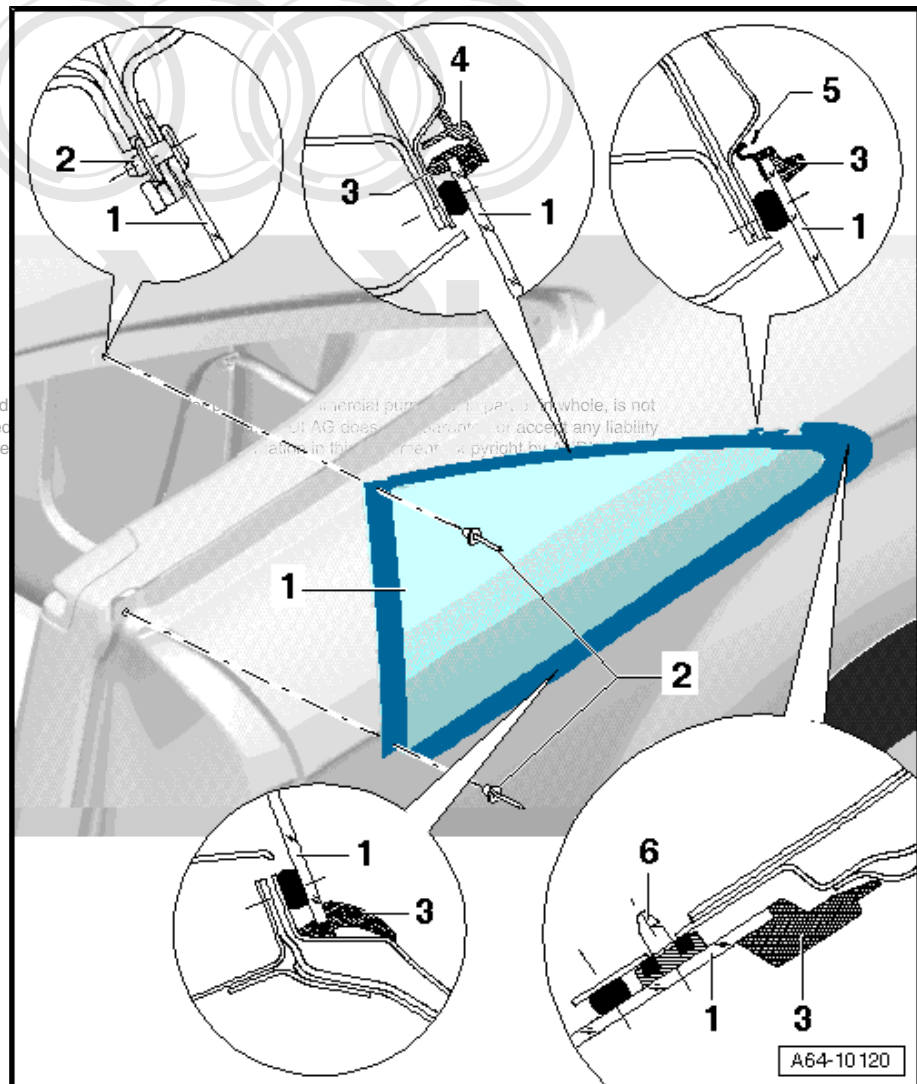
### 3 - Retaining clip

### 4 - Roof trim strip

- ❑ Remove pop rivets in area at top of door before detaching roof trim strip from retaining clips  
⇒ [page 207](#).

### 5 - Locating pin

- ❑ Not available as a separate replacement part
- ❑ Is cut during removal of window



## 1.5 Removing and installing side window

### Removing undamaged side window



#### Caution

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

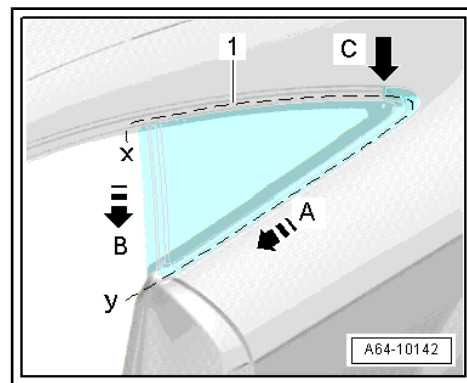
- Detach door seal in area of side window.

- Drill off rivet heads (top and bottom) in area of B-pillar at window and knock out rivet stems.
- Prise roof trim strip -1- out of retaining clips in area of side window.



#### Caution

**Do NOT bend roof trim strip.**



- Route cutting thread around side window as shown in illustration.
- 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 thread downwards in direction of -arrow B- through adhesive bead.
- Take window out of window opening.

#### Removing damaged side window

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



#### WARNING

**Always wear safety goggles and leather gloves when removing window.**

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

#### Preparations before installing side window

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



#### Note

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

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### Caution

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

### If installing a new window:

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

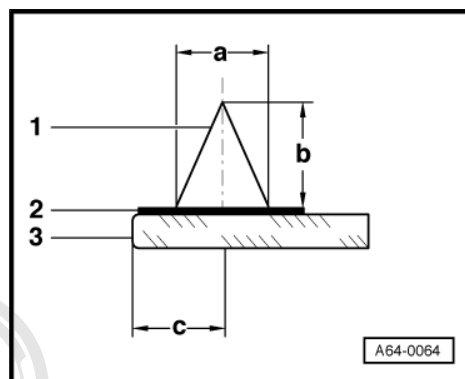
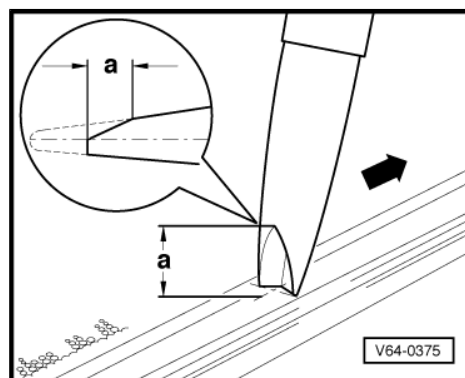
### Installing side window

- After completing preparations, cut tip of the nozzle to shape as shown in illustration.
- Dimension -a- = 12 mm.



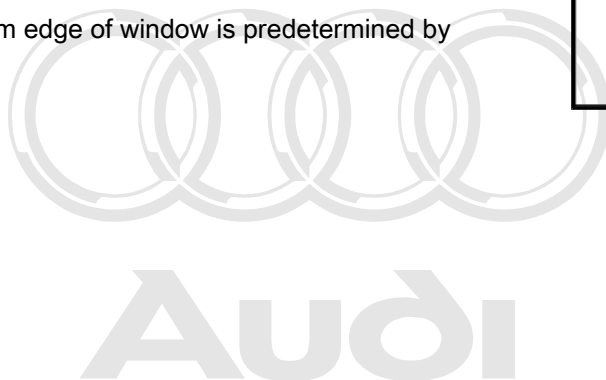
### Note

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



### Dimensions for applying adhesive:

- 1 - Adhesive bead
  - 2 - Primer
  - 3 - Window
- Dimension -a- = 8 mm + 2 mm
  - Dimension -b- = 12 mm + 3 mm
  - Distance -c- = from edge of window is predetermined by moulding.

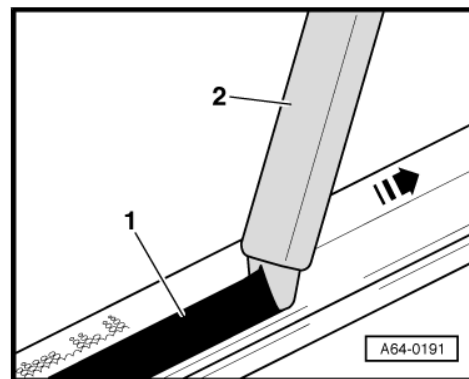


- Apply full surface of nozzle -2- to window.
- Direction of application -arrow- for adhesive bead -1-.
- Apply adhesive sealing material all round next to moulding.
- In the case of an undamaged window apply adhesive to remaining adhesive bead.



#### Note

*Use 1-component window adhesive -DH 009 100 03- (mini-cartridge). If more than one window has to be bonded, 2-component window adhesive set -DA 004 600 A2- can also be used.*



- First press in window with locating pin at C-pillar, then insert in window opening and secure with pop rivets in area of B-pillar.
- Note minimum drying time ⇒ [page 181](#) .

## 1.6 Rear window - exploded view



#### WARNING

***Always wear safety goggles and leather gloves when removing window.***

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## 1 - Rear window

- ❑ Distance -a- to top edge of rear lid = 2 mm
- ❑ Set distance -b- from side edge of rear lid = 2.5 mm.
- ❑ Prior to removal, unplug all connectors, move inwards towards the centre of the window and fix in position with adhesive tape.
- ❑ When installing, centralise window all around in window opening.

## 2 - Adhesive bead

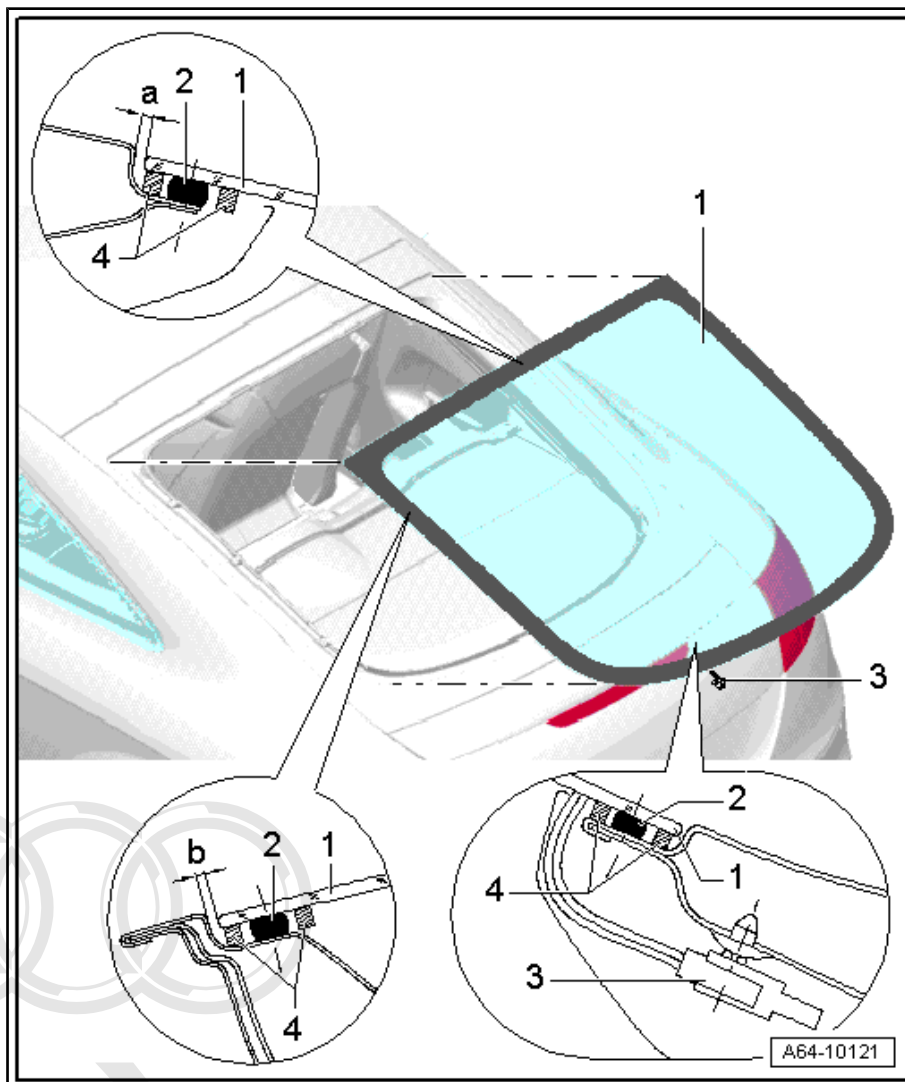
- ❑ Apply all round between the adhesive stopper strips
- Width of bead = 8 mm  $\pm$  2 mm
- Height of bead = 12 mm  $\pm$  2 mm

## 3 - Connector

- ❑ Unplug when removing window.
- ❑ Clipped into rear lid flange

## 4 - Adhesive stopper strip

- ❑ Apply window adhesive between strips.



## Removing undamaged rear window

- Remove rear lid trim  $\Rightarrow$  Rep. Gr. 70
- Unplug electrical connectors for heated rear window and window aerial, move towards centre of window and secure with adhesive tape.

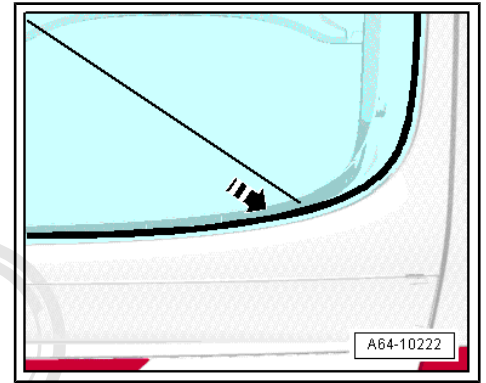
## 1.7 Removing and installing rear window



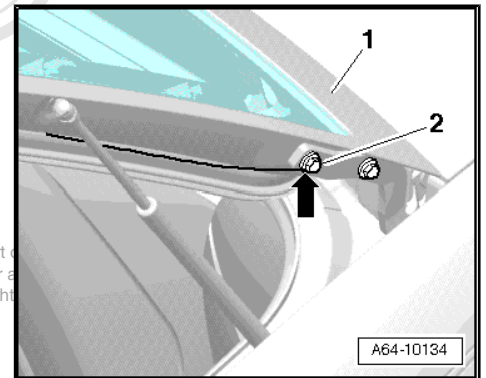
### Caution

*It is important to insert e.g. a plastic pad at the exit point of the cutting thread to avoid damaging the paintwork.*

- Gradually push cutting cord through adhesive bead from inside to outside using long-nose pliers (as shown).
- Position cutting wire around rear window (under window), as shown.

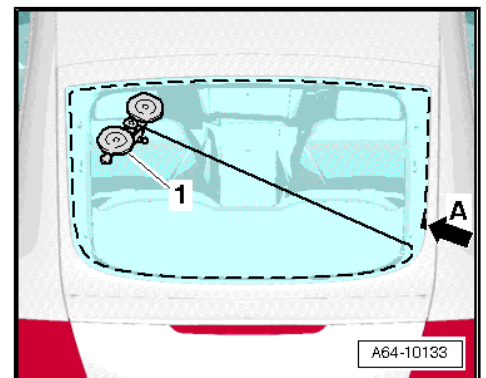


- Loosen hexagon bolt -arrow- for rear lid hinge -1- and use it to secure end of cutting thread -2-.
- Secure cutting thread in reel.
- After removing window tighten bolt to 21 Nm.

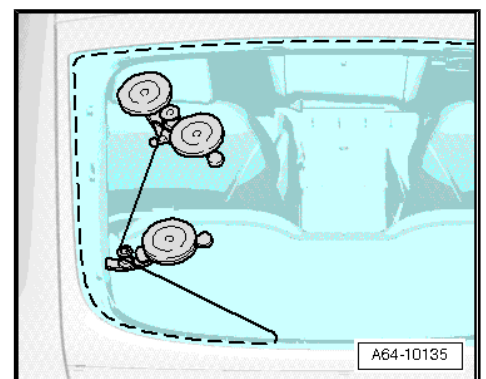


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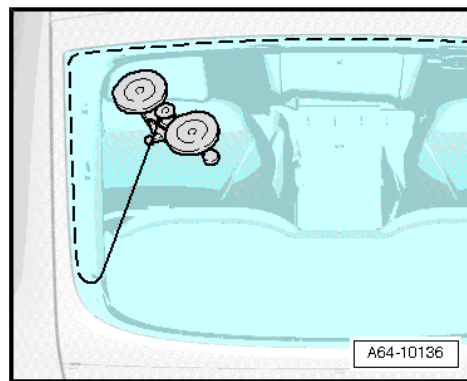
- Cut out first part of window glass.



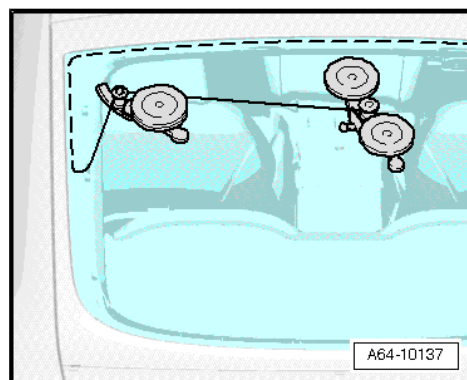
- Move reel device to next position as shown and attach guide roller in bottom corner of window.
- Route cutting thread as shown.
- Cut out window until cutting thread no longer runs in guide roller.



- Remove guide roller and continue to cut out glass.



- Move reel device to next position as shown and attach guide roller in top corner of window.
- Route cutting thread as shown.
- Cut out window until cutting thread no longer runs in guide roller.



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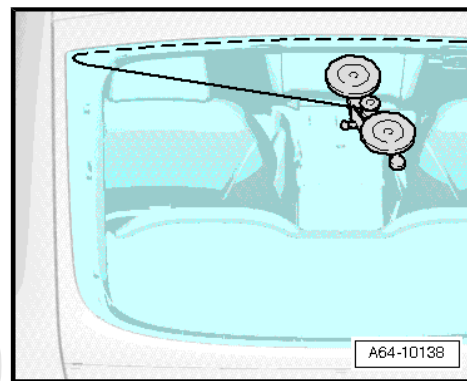
- Remove guide roller and continue to cut out glass.
- Now repeat these steps in the top left and bottom right corners of the window.
- Completely cut out rear window following this procedure.
- Remove window from window opening using double suction lifters.

#### Removing damaged rear window



#### WARNING

***Always wear safety goggles and leather gloves when removing window.***



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

#### Preparations before installing rear window



#### Note

- ◆ *Just before re-installing an undamaged window, use electric cutter -V.A.G 1561 A- and scraper (25 mm) -V.A.G 1561/8- to cut back the remaining adhesive sealant on the window and flange for an even surface, but do not remove completely.*
- ◆ *The remaining sealant is required as a base for better adhesion of the new adhesive sealant.*



#### Caution

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



### If installing a new window:

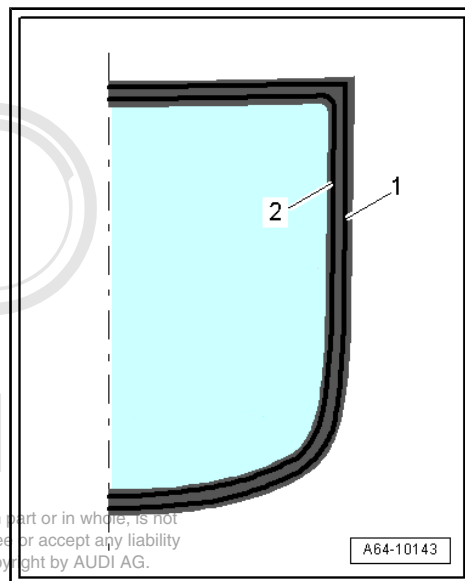
- Clean window in bonding area between inner -1- and outer -2- adhesive stopper strips all round with cleaning solution -D 009 401 04- .
- Apply glass and paint primer -D 009 200 02- as described below.



#### Note

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

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### Applying primer:



#### Caution

**Primer is conductive and must not come into contact with the bus bar of the rear window heating.**

- Use the applicator -2- to apply the primer -3- evenly and in one operation to the window -4- between the adhesive stopper strips.
- Start application with fully soaked felt.
- Apply primer over entire width between stopper strips.
- Drying time: 10 minutes

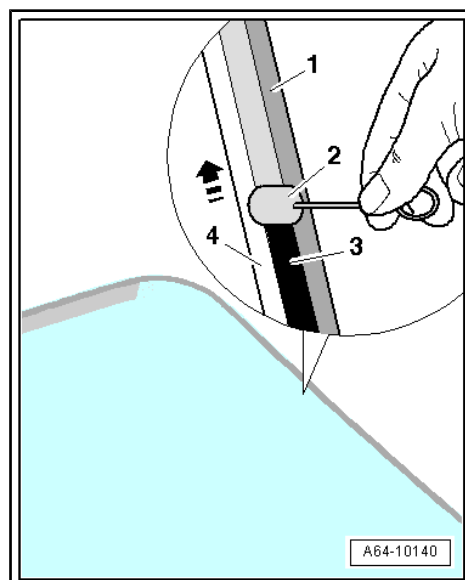


#### Note

*If paintwork on window flange is damaged during removal, repair paintwork structure as specified in Audi paintwork manual.*

- Start by cleaning repaired area with cleaning solution -D 009 401 04- and then apply glass and paint primer -D 009 200 02- .

### Installing rear window



### 1 - Rear window

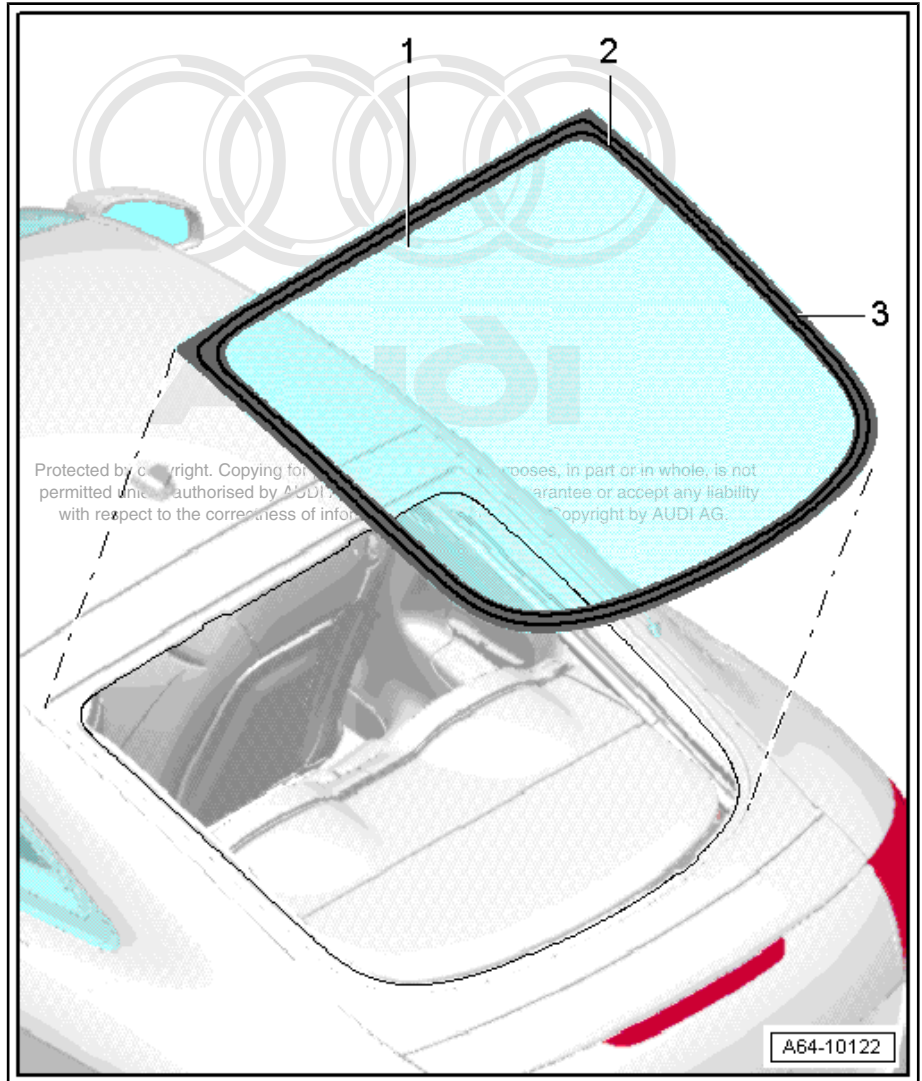
- ❑ Insert in window opening using double suction lifters.

### 2 - Inner adhesive stopper strip

- ❑ Stops adhesive coming into contact with busbar

### 3 - Outer adhesive stopper strip

- ❑ Stops adhesive oozing out



## Installing



### Note

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

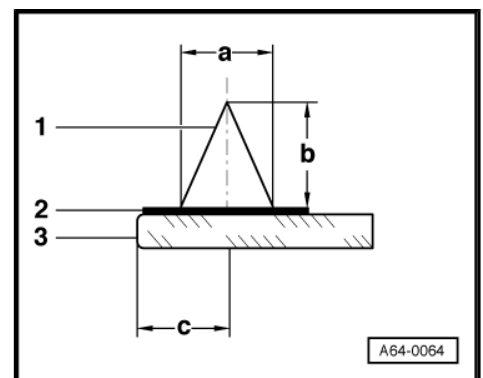
Dimensions for applying adhesive:

1 - Adhesive bead

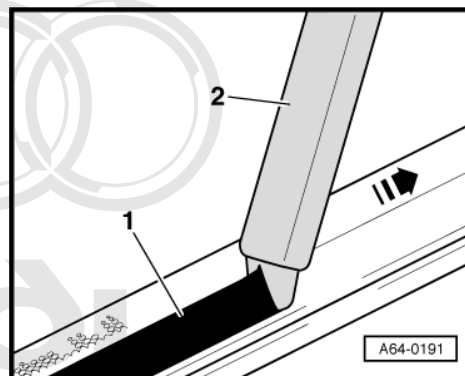
2 - Primer

3 - Window

- Dimension -a- = 8 mm  $\pm$  2 mm
- Dimension -b- = 12 mm  $\pm$  2 mm



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



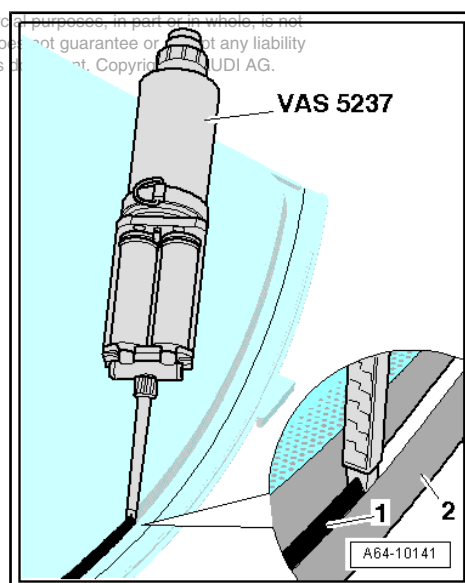
- Apply adhesive sealing material all round between adhesive stopper strips.
- In the case of an undamaged window apply adhesive to remaining adhesive bead.
- Fit rear window into window opening using double suction lifters.



### Caution

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

- Align window glass at sides.
- Observe distance to top edge of rear lid = 2 mm.
- Note minimum drying time ⇒ [page 181](#).



## 2 Windows secured by threaded fasteners

### 2.1 Removing and installing front door window

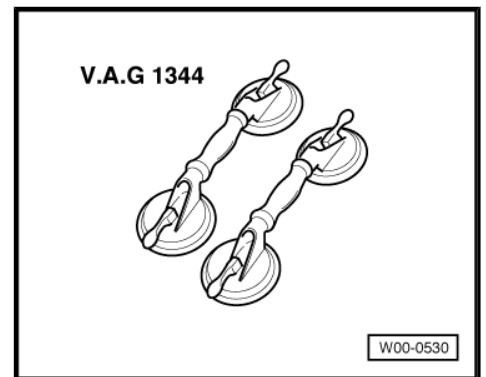
Special tools and workshop equipment required

- ◆ Suction lifter -V.A.G 1344-



Exploded view

Audi



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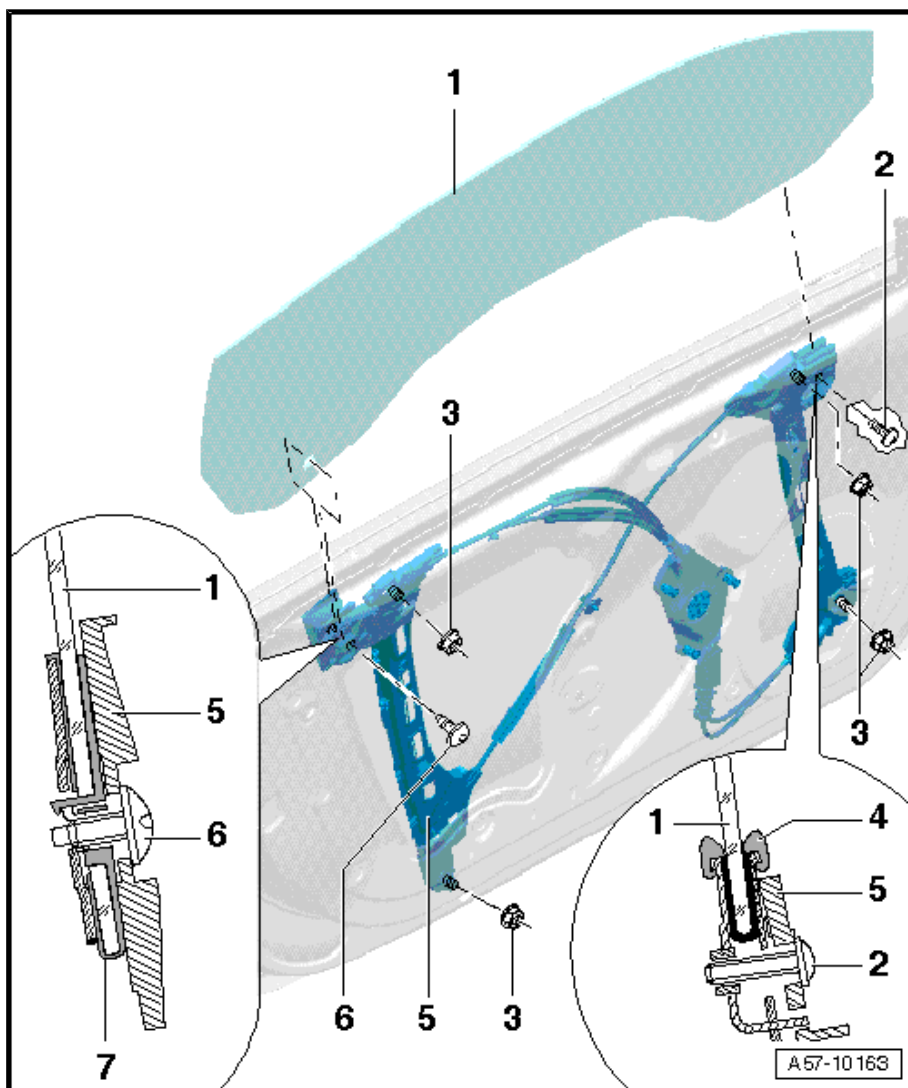
## 1 - Door window

### ❑ Removing:

- Door trim removed ⇒ Rep. Gr. 70
- Cover for front and rear inner door panel/loud-speaker removed
- Lower door window until bolts -2- and -5- in door opening are accessible.
- Unscrew bolt -6-; only loosen bolt -2-.
- Tilt door window forwards and pull window upwards out of window slot.

### ❑ Installing:

- Insert in window regulator in reverse order.
- ❑ Press door window to rear into window guide and slightly tighten bolts -2- and -6-.
- Move door window upwards into door seal. This centres the window in the door opening.
- Use suction lifter -V.A.G 1344- to press door window upwards into seal at roof and forwards into A-pillar seal and hold in this position.



- Have second mechanic tighten bolts -2- and -6- to torque from inside the vehicle.
- If applicable perform height/lateral adjustment ⇒ [page 204](#).

## 2 - Bolt (front)

- ❑ 7 Nm

## 3 - Nut

- ❑ 9 Nm

## 4 - Clamping jaws (front)

## 5 - Window regulator

- ❑ Removing and installing ⇒ [page 76](#)

## 6 - Bolt (rear)

- ❑ 7 Nm

## 7 - Thrust piece

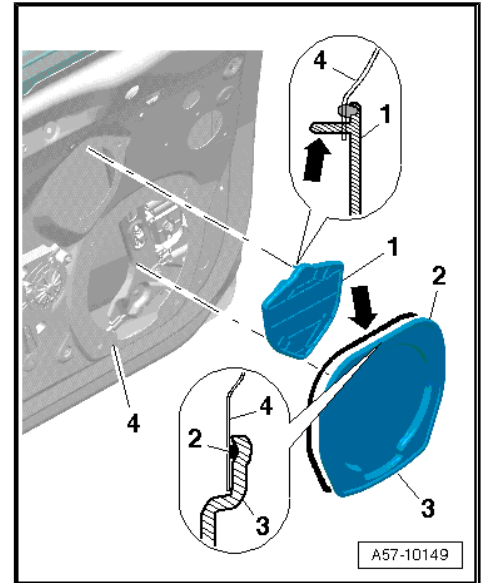
- ❑ Not available as a separate replacement part



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### Removing front cover for inner door panel

- Cover -1- and cover -3- depend on radio version.
- Before fitting the cover, check and if necessary repair the butyl seal -2-.
- To fit the cover -1-, insert the centring pin -arrow- and press the cover into the inner door panel.



### Removing rear cover for inner door panel

#### 1 - Cover (rear)

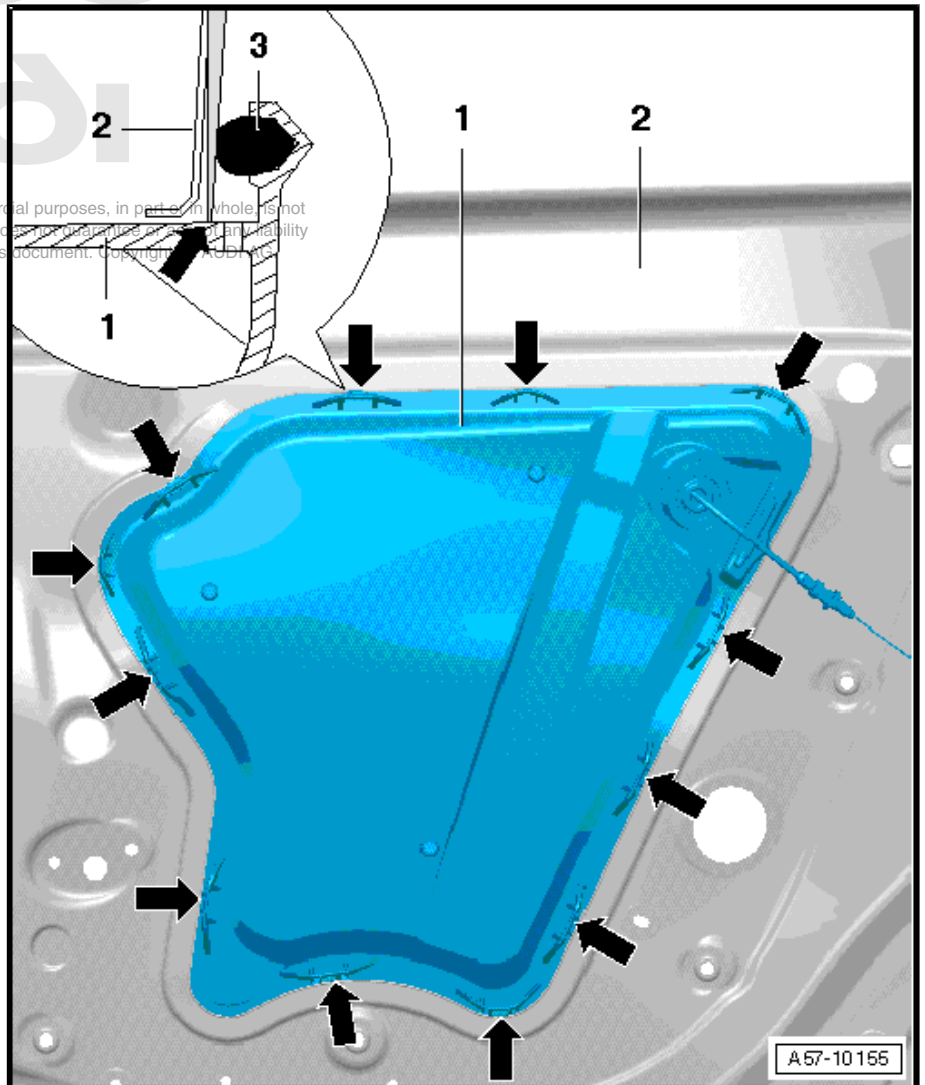
- Door trim removed ⇒ Trim, insulation; Rep. Gr. 70.

- To remove, use a narrow object to release retaining tabs -arrows- at cover.

#### 2 - Inner door panel

#### 3 - Seal

- ☐ Check seal before fitting cover and renew if necessary.

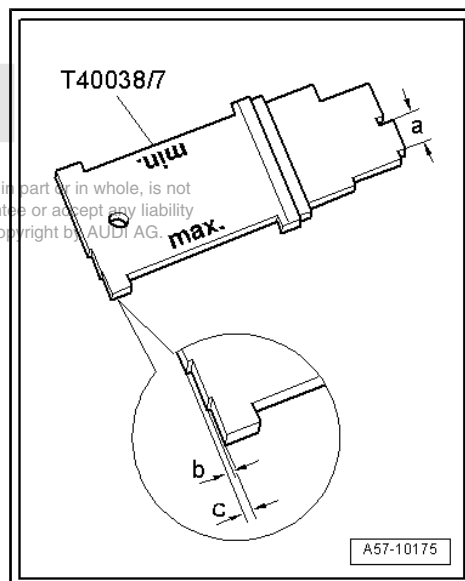


## 2.2 Adjusting door window

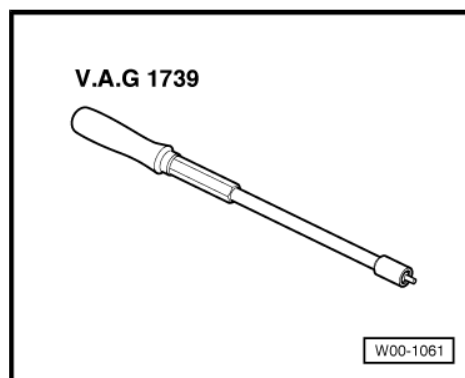
### Special tools and workshop equipment required

- ◆ Template -T40038/7-

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



### Height adjustment



#### Note

*To adjust height, door trim need not be removed.*

- Checking height adjustment → [page 85](#)



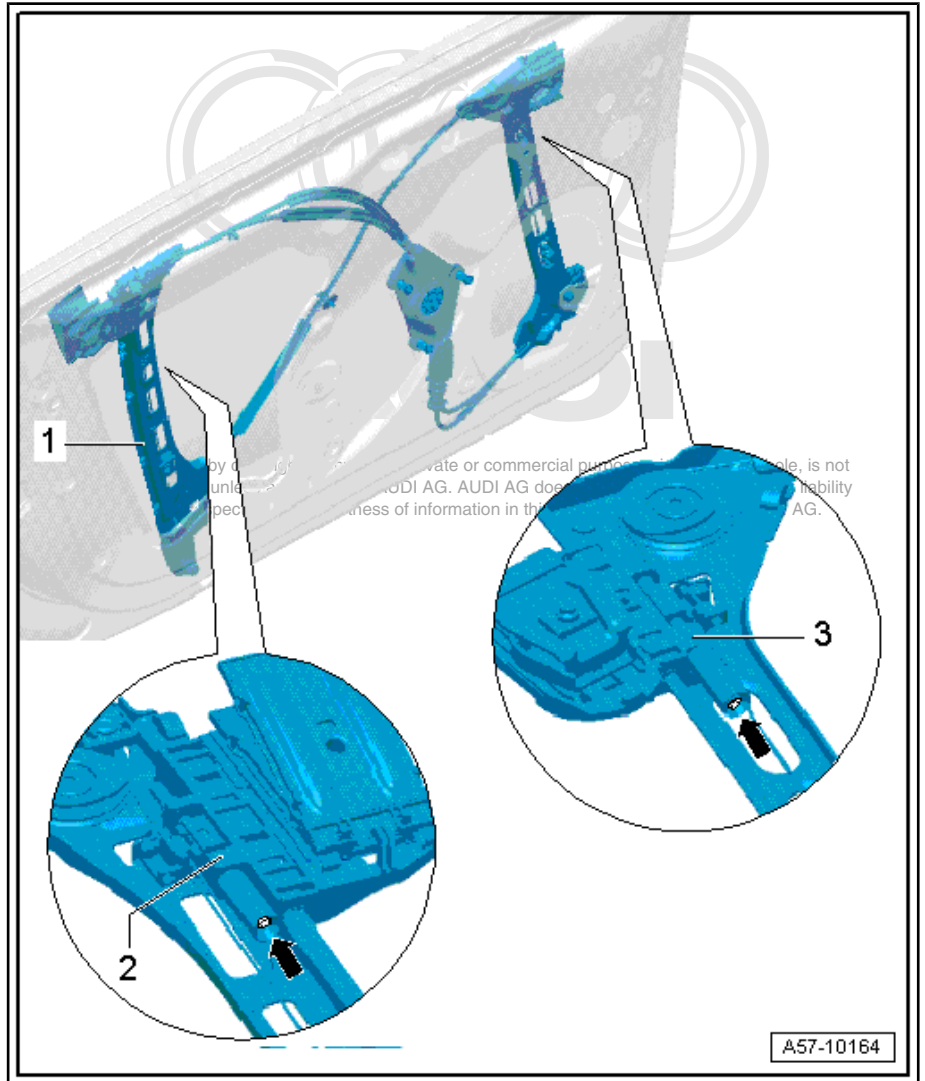
### 1 - Height stop (rear)

- ☐ Window lowered fully.
- For height adjustment, insert a 5 mm Allen key from the underside of the door panel into the adjustment sleeve.
- Move stop up or down accordingly.



### 2 - Height stop (front)

- ☐ Adjustment procedure is the same as for height stop (rear).



### Lateral adjustment

- Checking adjustment ⇒ [page 85](#)

# 1 - Window regulator

- Removing and installing  
⇒ [page 76](#)

# 2 - Door

# 3 - Nut

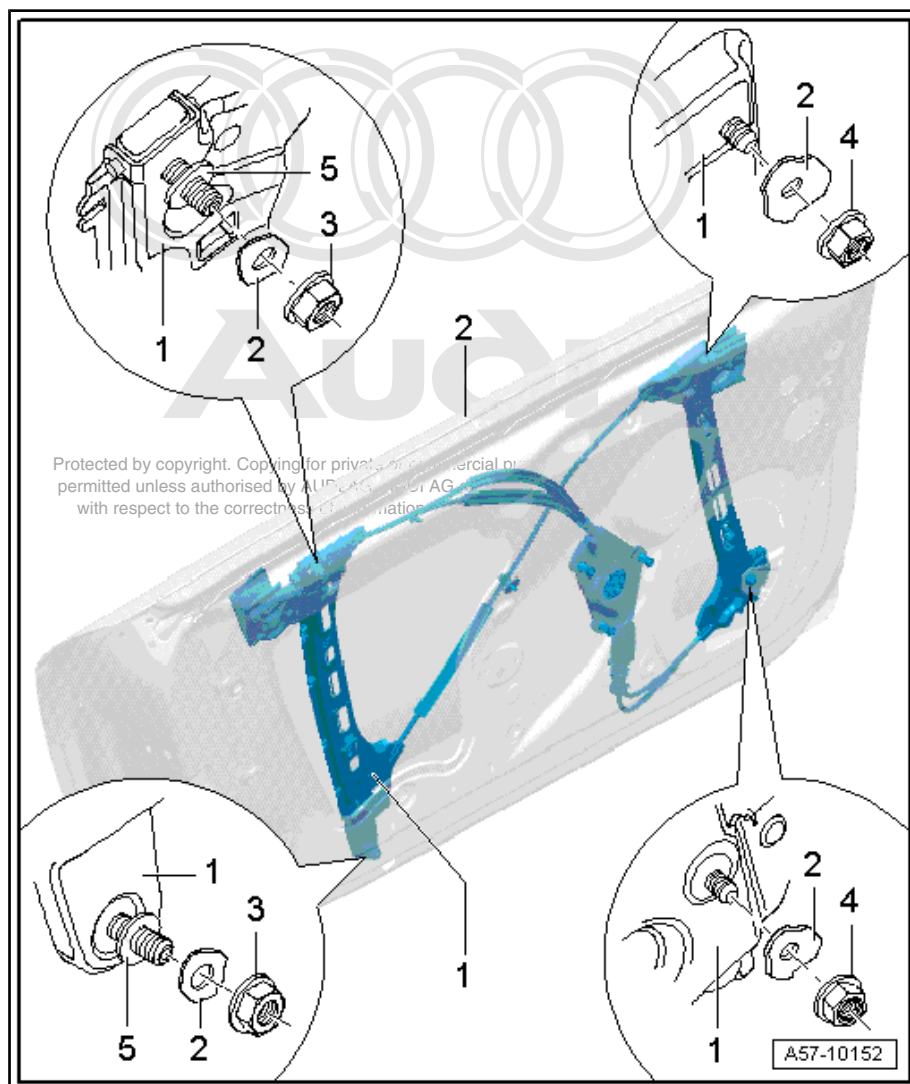
- 9 Nm

# 4 - Nut

- 9 Nm

# 5 - Flange bolt

- For lateral adjustment, loosen nuts -3- (top or bottom) with rear window adjusting tool - V.A.G 1739- and screw flange bolt (top or bottom) in or out accordingly.



## 66 – Exterior equipment

### 1 Strips and panels

#### 1.1 Removing and installing roof trim strip - exploded view



*The side window can remain installed when removing the roof trim strip.*

##### 1 - Roof trim strip



- Detach door seals from body flange in area of roof trim strip.
- Drill heads off pop rivets, knock out rivet stems and detach roof trim strip.
- ☐ Carefully prise roof trim strip out of retaining clips and detach.

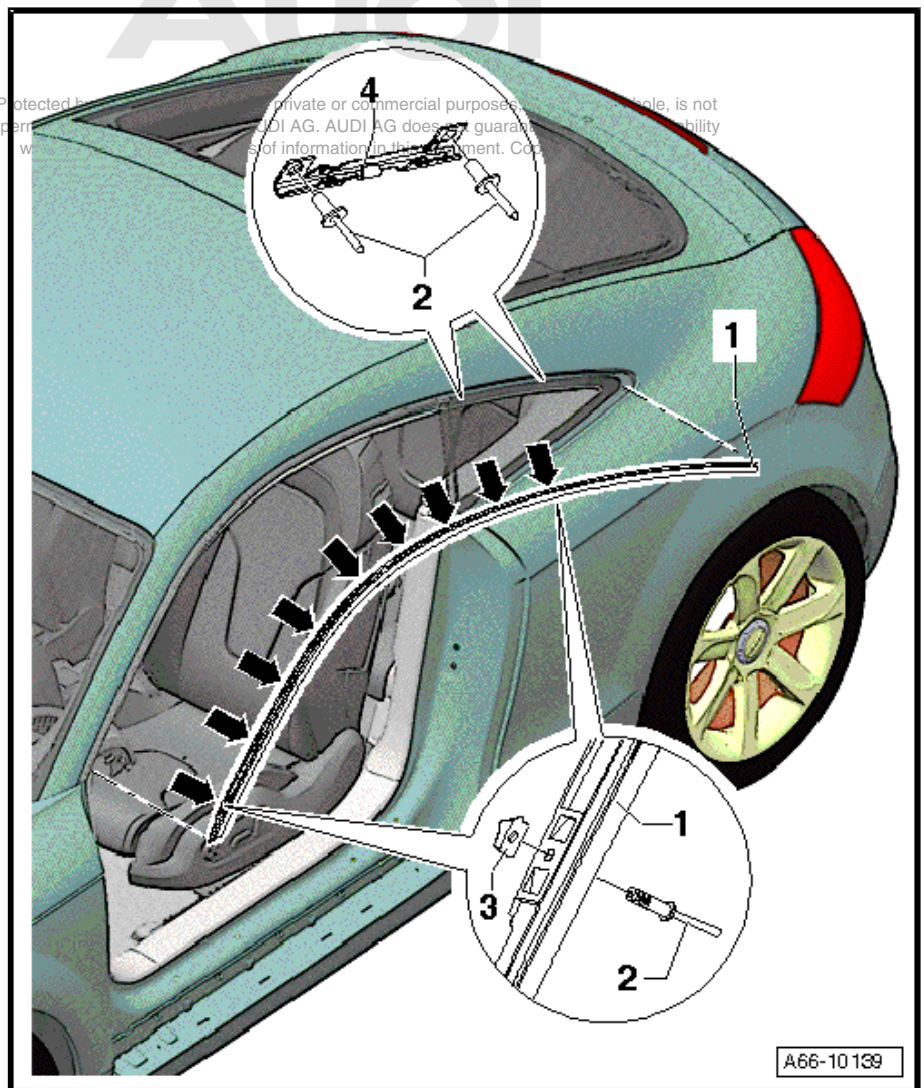
##### 2 - Pop rivet

- ☐ 11x

##### 3 - Side panel

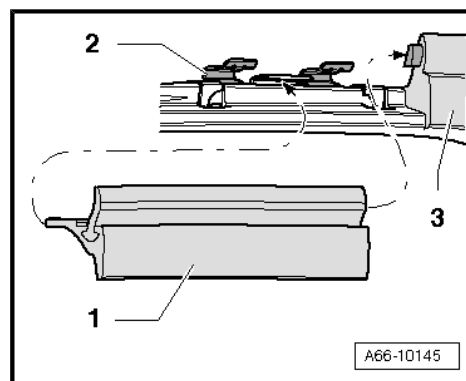
##### 4 - Retaining clip

- ☐ 4x



## End piece for roof trim strip

- When fitting, first slide roof trim strip -1- into moulded trim -2- at side window and then press into retaining clip -3-.



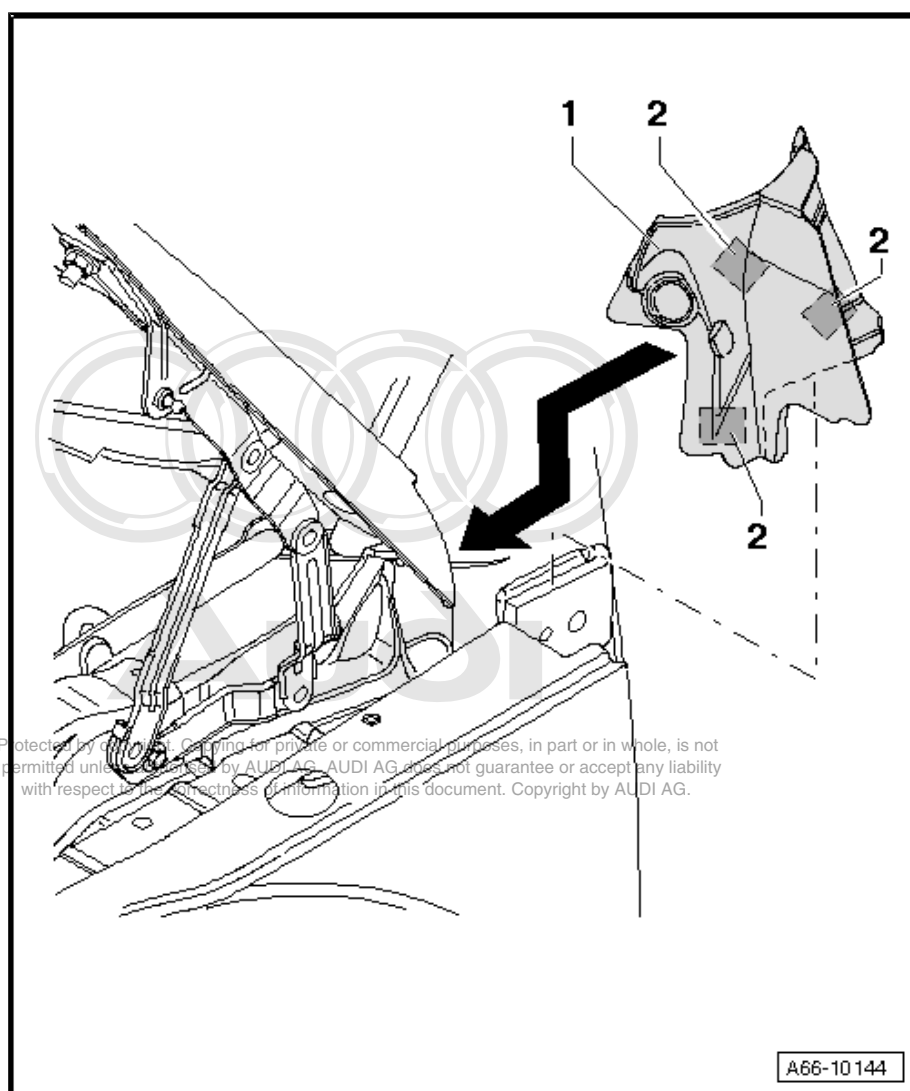
## 1.2 Renewing A-pillar trim - exploded view

### 1 - A-pillar trim

- ☐ Bonding surfaces must be free from dust and grease.
- Clean bonding surfaces with cleaning solution -D 009 401 04-.
- Align trim at A-pillar, attach and press home.

### 2 - Double-sided adhesive tape

- ☐ Peel off protective film before mounting.



## 1.3 Removing and installing outer sill panel trim - exploded view

### 1 - Outer sill panel trim

#### ☐ Removing:

- First unclip sill panel trim at bottom, then detach upwards at front from door flange and pull out from underneath door seal.

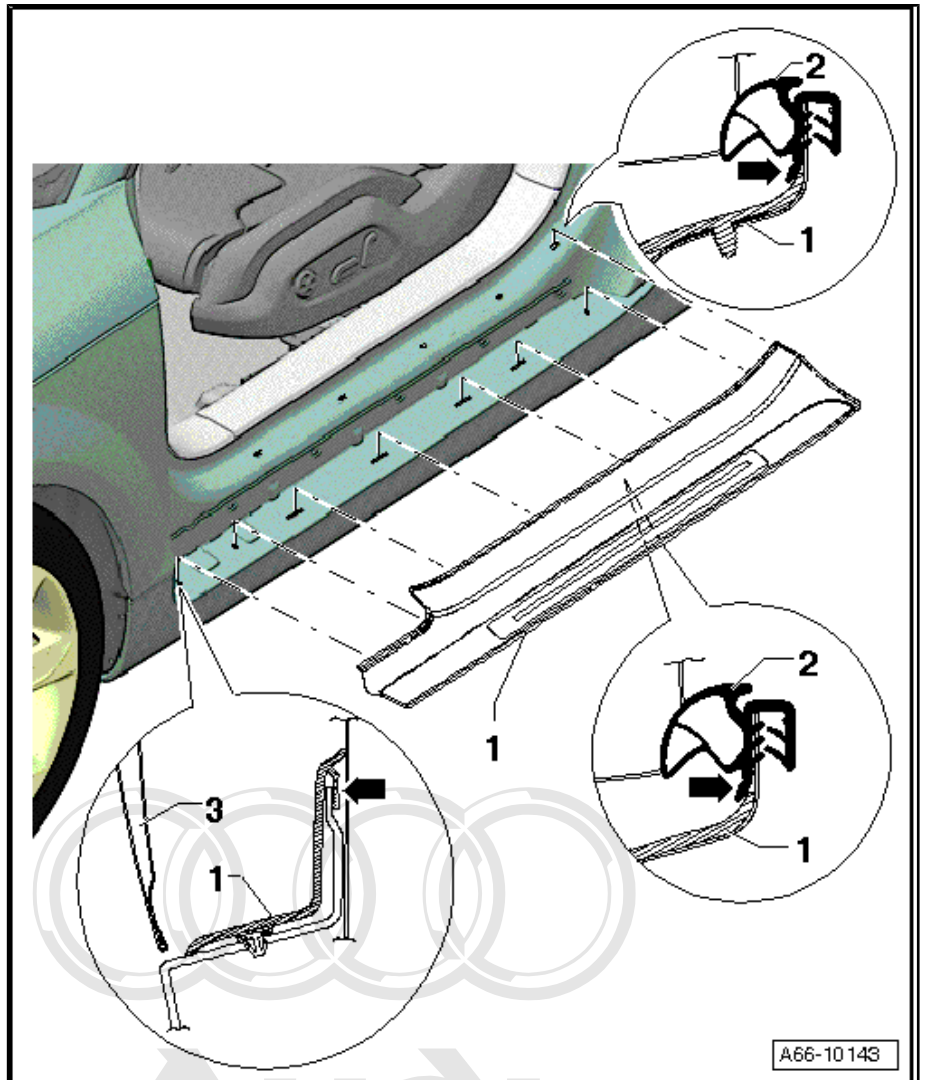
#### ☐ Installing:

- Peel protective film off adhesive tape.
- When installing, make sure sill panel trim is inserted beneath door seal at body flange -arrow- and pressed on- to door flange at front -arrow-.

### 2 - Door seal

#### ☐ Outer door seal

### 3 - Door



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## 1.4 Removing and installing side member trim - exploded view

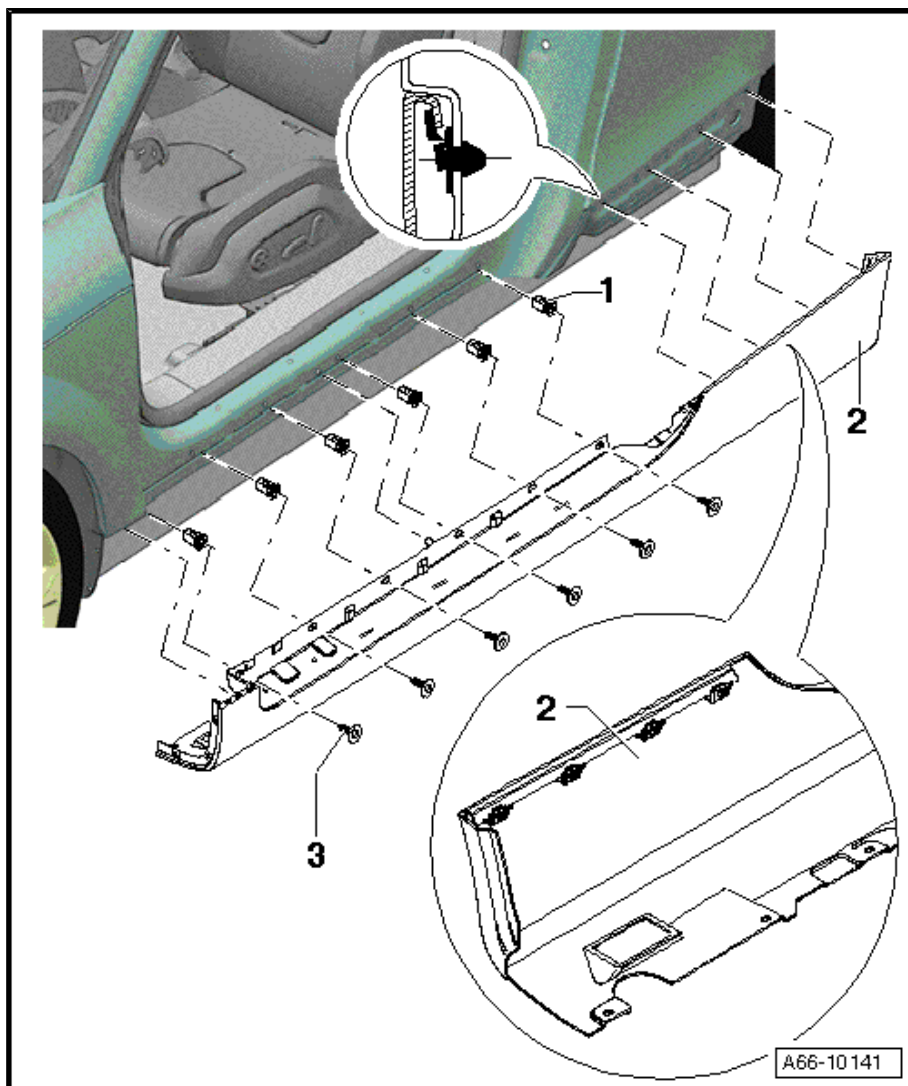
### 1 - Clip

### 2 - Side member trim

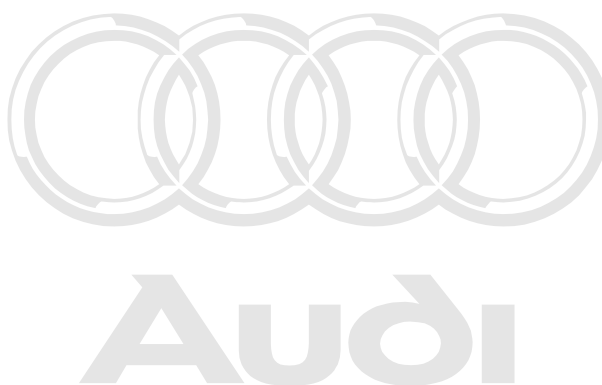
- ☐ Sill panel trim removed
- Unscrew bolts -3- beneath sill panel trim and unfasten clips from underside.
- Unclip trim from A-pillar (bottom) and from side panel and detach.

### 3 - Bolt

- ☐ 1.5 Nm



### Exploded view (bottom)



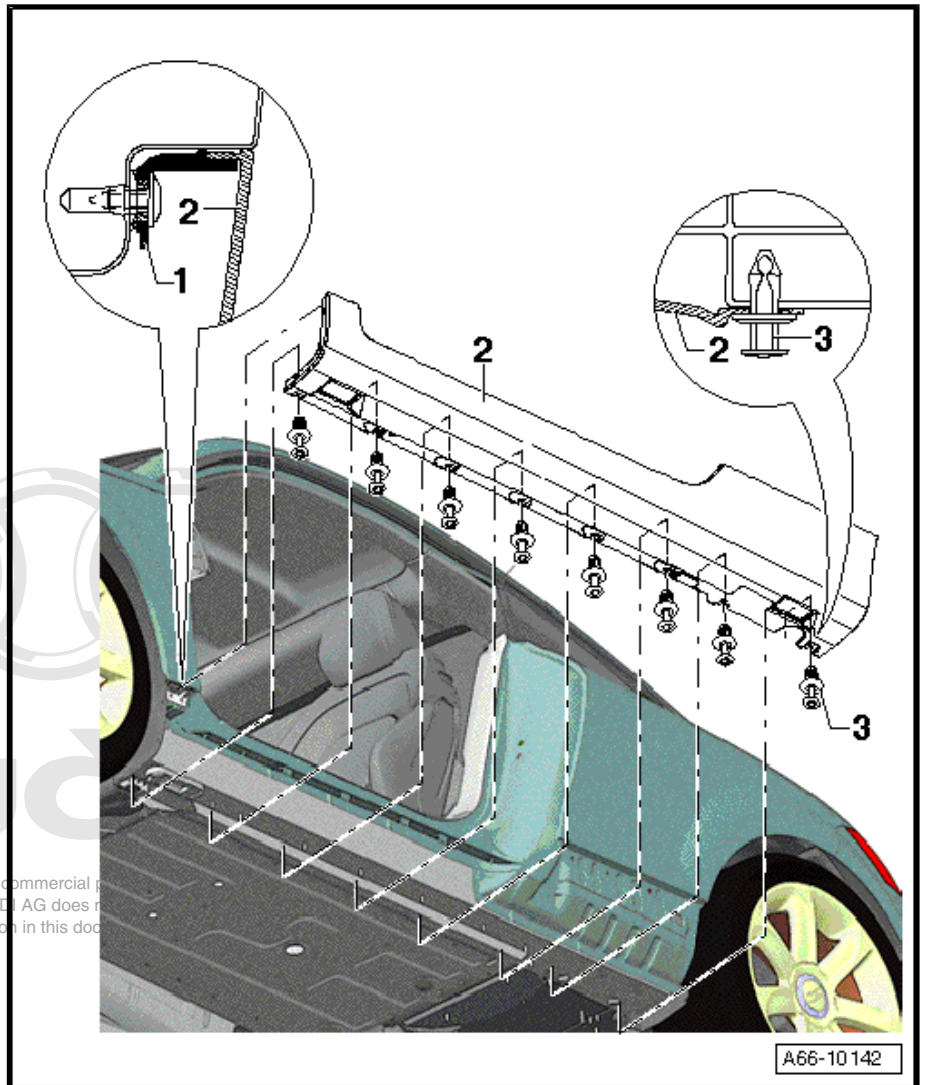
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**1 - Bracket for side member trim**

**2 - Side member trim**

**3 - Clip**

- ☐ 8x
- ☐ Pull out locking pin and detach clip.



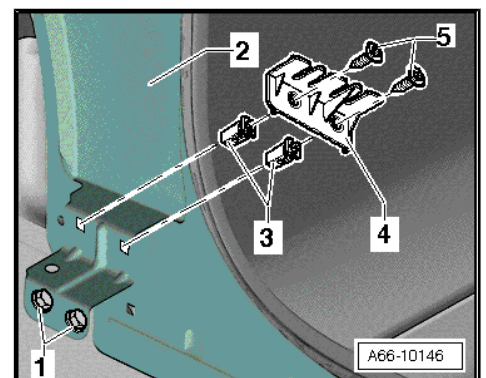
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**Bracket for side member trim**

◆ Bolt -5- = 2 Nm

Bolt

- Clip -3- inserted in wing -2-
- Secure bracket -4- with bolts -5-.



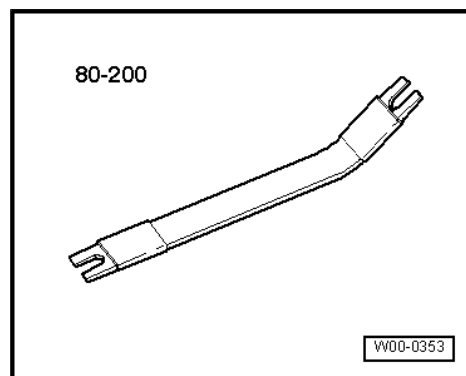


## 2 Exterior mirrors

### 2.1 Tools

#### Special tools and workshop equipment required

- ◆ Removal lever -80-200-



### 2.2 Removing and installing exterior mirror - exploded view

#### 1 - Housing for exterior mirror

- Removing and installing  
⇒ [page 214](#) .

#### 2 - Bolt

- 2 Nm

#### 3 - Seal

- Set of seals

#### 4 - Bolts

- 6.5 Nm

#### 5 - Cover for mirror base

#### 6 - Mirror base

#### 7 - Seal

- Set of seals

#### 8 - Electrical wiring for mirror adjustment

#### 9 - Door

#### 10 - Adjuster element

- Used to adjust angle of mirror

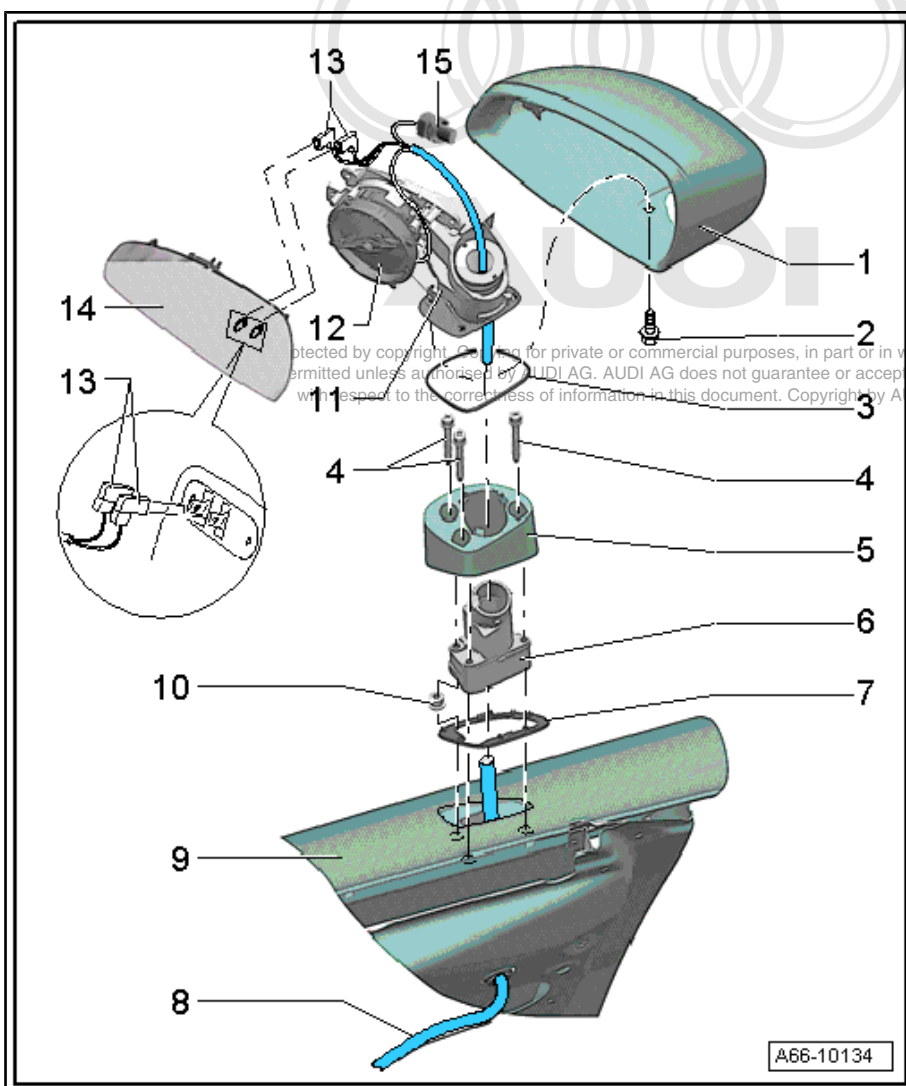
#### 11 - Mounting plate

- Must also be removed when removing mirror adjustment unit.

#### 12 - Mirror adjustment unit

- Removing and installing  
⇒ [page 215](#) .

#### 13 - Connector for mirror heat-



ing

#### 14 - Mirror glass

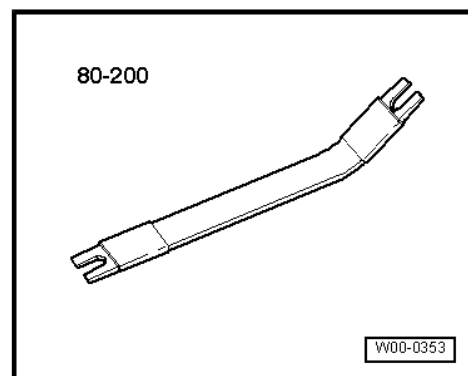
□ ⇒ [page 213](#) .

#### 15 - Connector for mirror motor

## 2.3 Removing and installing mirror glass

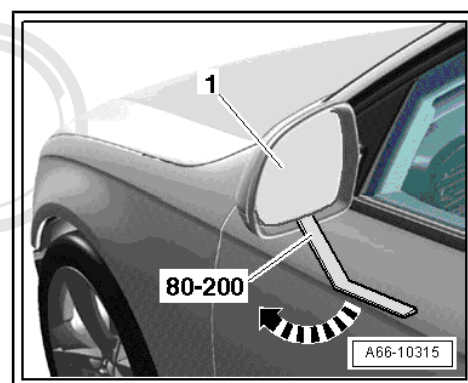
### Special tools and workshop equipment required

- ◆ Removal lever -80-200-



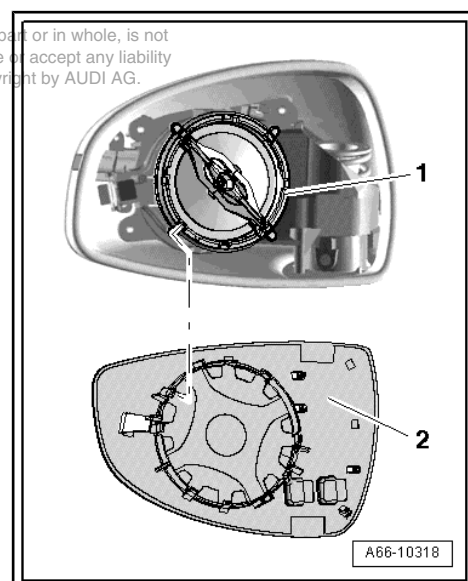
### Removing

- Protect edges at top and bottom of mirror housing from damage with fabric-backed adhesive tape.
- Press off mirror glass -1- at bottom of mirror adjustment unit and then at top using removal lever -80-200- .



### Installing

- Always wear protective gloves when installing.
- Insert mirror glass -2- into guide pins of frame adjustment unit -1- and friction finger into friction spring and press on.
- When doing so, only exert pressure on centre of glass.



## 2.4 Removing and installing mirror housing - exploded view

### 1 - Mirror housing

- ☐ Take out mirror glass prior to removal.

#### Removing:

- Unplug electrical connectors for mirror motor and mirror heating.
- Tilt mirror forwards as far as it will go.
- Unscrew bolt -6- at mirror base.
- Lift housing off mirror base.

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



#### Note

- When fitting, housing must be pressed fully onto base before folding it back.

### 2 - Bolt

- ☐ 2 Nm

### 3 - Mounting plate

### 4 - Bolt

- ☐ 6.5 Nm

### 5 - Housing for mirror base

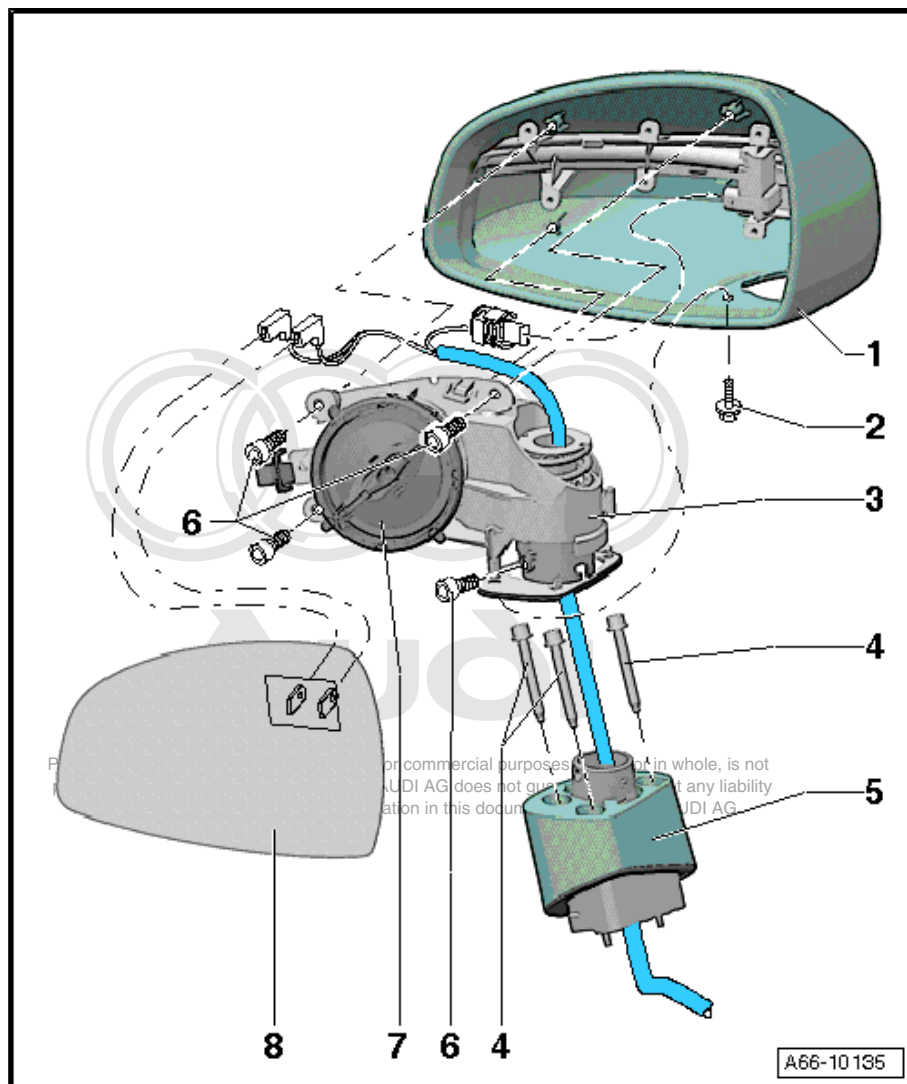
- ☐ Mirror housing removed
- ☐ Unscrew bolts -4- and pull out mirror base by way of mirror adjustment cable.

### 6 - Bolt

- ☐ 6.5 Nm

### 7 - Mirror adjustment unit

### 8 - Mirror glass

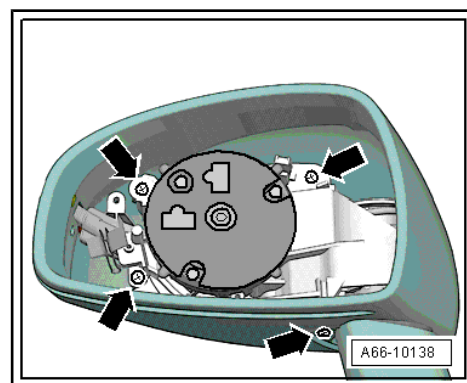
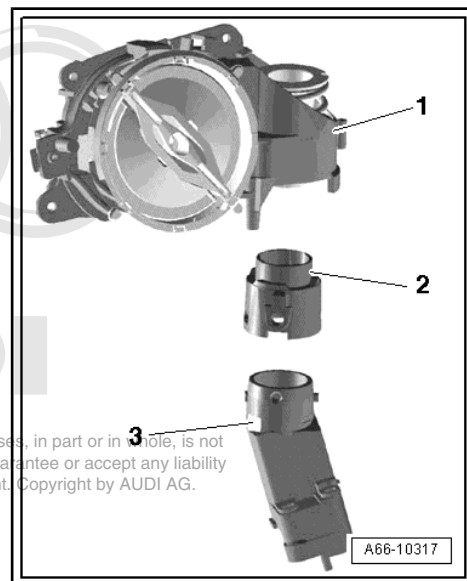


### Installing adapter for mirror base

- The corresponding adapter -2- is supplied loose together with the new mounting plate -1-; the adapter must first be fitted onto the mirror base -3-.
- With the mounting plate angled forwards, press it onto the adapter and then pivot it rearwards into its normal position.
- The adapter will then engage in the mounting plate.

### Removing mirror housing

- Unscrew bolts -arrows- from underside of housing and from mounting plate
- Take mounting plate out of housing.



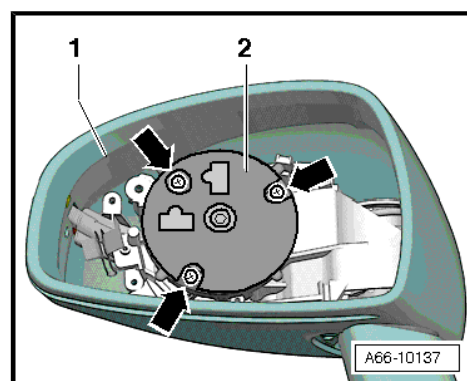
## 2.5 Removing and installing electric mirror adjustment unit

### Removing

- ◆ Bolts 1 Nm
- Remove mirror glass ⇒ [page 213](#).
- Unscrew bolts -arrows- of mirror adjustment unit -2-.
- Fold mirror adjustment unit -2- to side and unclip connector for electrical mirror adjustment.

### Installing

Install in reverse order.



## 3 Radiator grille - Audi TT

### 3.1 Removing and installing radiator grille - exploded view

#### 1 - Bolt

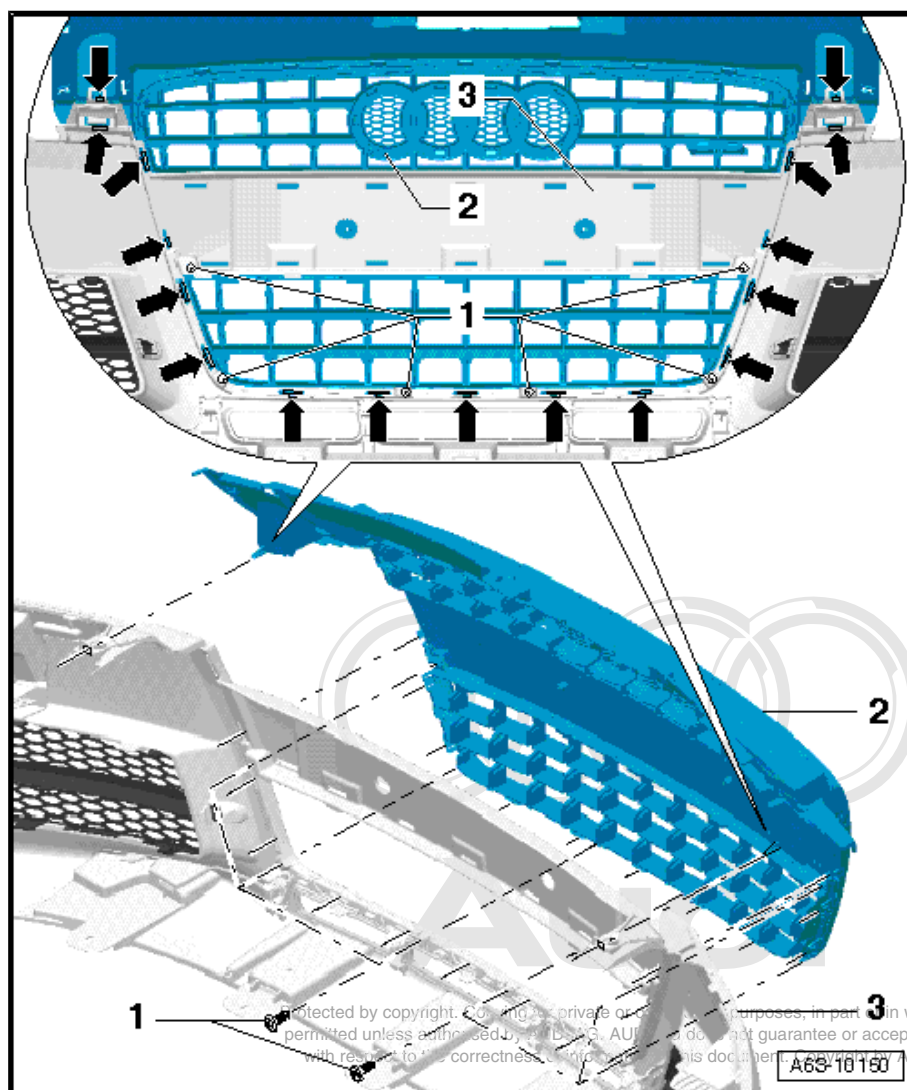
- 1 Nm

#### 2 - Radiator grille

- Unscrew bolts, gradually release clips and disengage radiator grille from bumper.

#### 3 - Bumper (front)

- Bumper removed



## 4 Radiator grille - TT RS

### 4.1 Radiator grille and number plate holder - exploded view

**1 - Bolt**

- ☐ 2x
- ☐ 0.9 Nm

**2 - Number plate holder**

- ☐ Country-specific version
- ☐ Removing and installing  
⇒ [page 218](#)

**3 - Radiator grille**

- ☐ Removing and installing  
⇒ [page 219](#)

**4 - Bolt**

- ☐ 4x
- ☐ Tightening torque and  
sequence ⇒ [page 156](#)

**5 - Trim cover (right-side)**

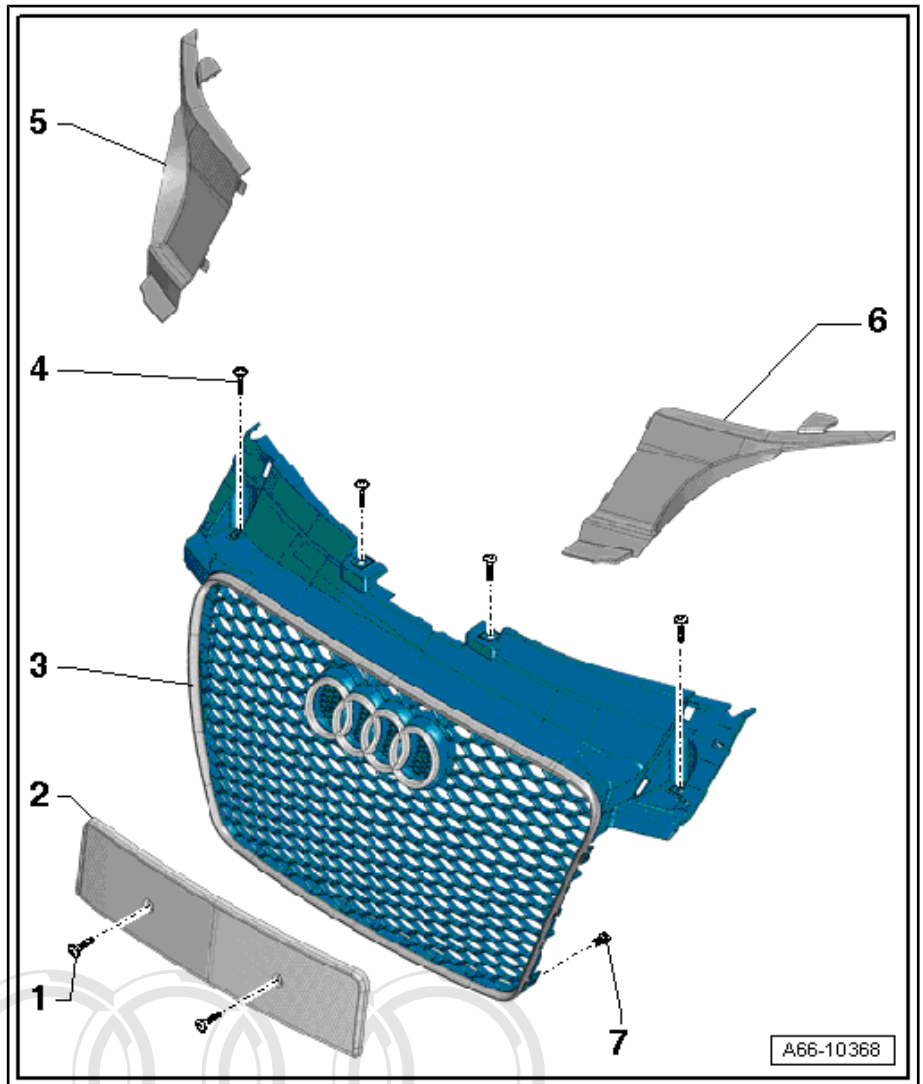
- ☐ Removing and installing  
⇒ [page 218](#)

**6 - Trim cover (left-side)**

- ☐ Removing and installing  
⇒ [page 218](#)

**7 - Bolt**

- ☐ 8x
- ☐ 2 Nm



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## 4.2 Removing and installing number plate holders

### Removing

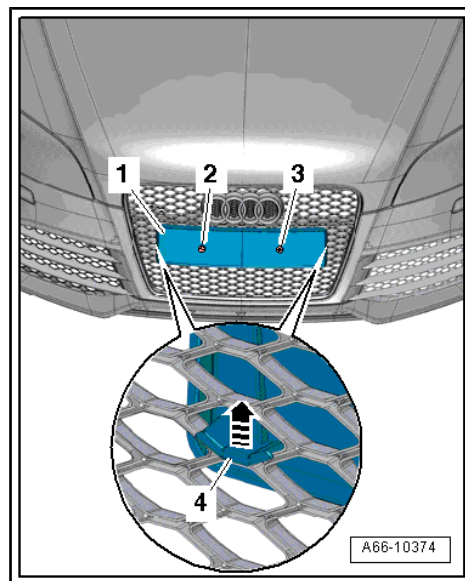
- Detach number plate.
- Remove bolts -2- and -3-.
- Disengage number plate holder -1- upwards from honeycomb grille -arrow-; this disengages retainers -4-.
- Detach number plate holder.

### Installing

- Tightening torques ⇒ [page 217](#)

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

- The number plate holder must be inserted completely into the honeycomb grille.



## 4.3 Removing and installing cover for radiator grille

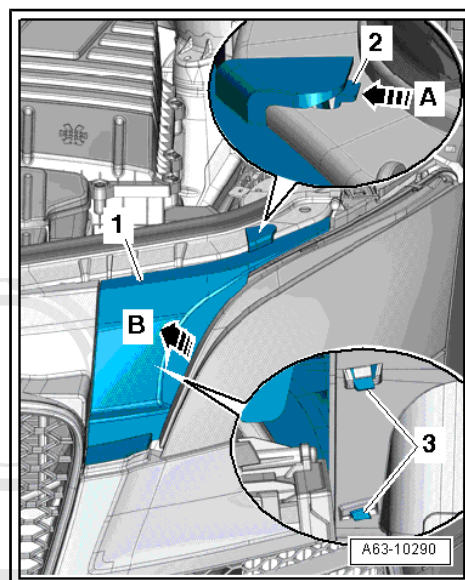
### Removing

- Release spring clip -2- on lock carrier -arrow A-.
- Swivel cover upwards -arrow B-; this releases retaining clips -3-.
- Disengage cover -1- at radiator grille and detach.

### Installing

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

- Engage cover at radiator grille and press it on until it engages completely.



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## 4.4 Removing and installing radiator grille

### Removing

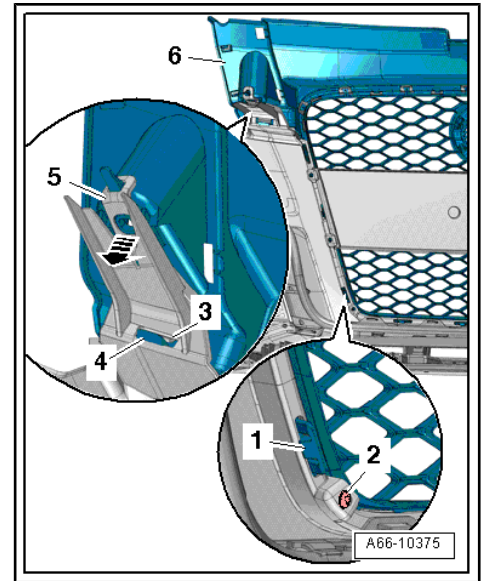
- Remove number plate holder ➔ [page 218](#) .
- Remove bumper ➔ [page 171](#) .
- Remove bolt -2-.
- Release retaining clip -1- along bolts and press radiator grille slightly out of bumper.
- Carefully press securing tab -3- upwards and release retaining tab -4-; at the same time disengage radiator grille from mounting -5- -arrow-.
- Detach radiator grille -6- from bumper.

### Installing

- Tightening torques ➔ [page 217](#)

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

- Press radiator grille on until it engages completely.
- Install bumper ➔ [page 171](#) .
- Install number plate holder ➔ [page 218](#) .



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## 5 Spoiler - TT

### 5.1 Spoiler for rear lid - exploded view



#### Caution

- ◆ *The adjuster elements and the bolts for securing the spoiler must always be renewed when a new spoiler is fitted.*
- ◆ *Always renew the water drain hoses when removing and installing the drive unit.*

#### 1 - Spoiler

- ☐ Removing:
  - Open up spoiler.
  - Unscrew bolts -4- and detach spoiler.



#### Installing:

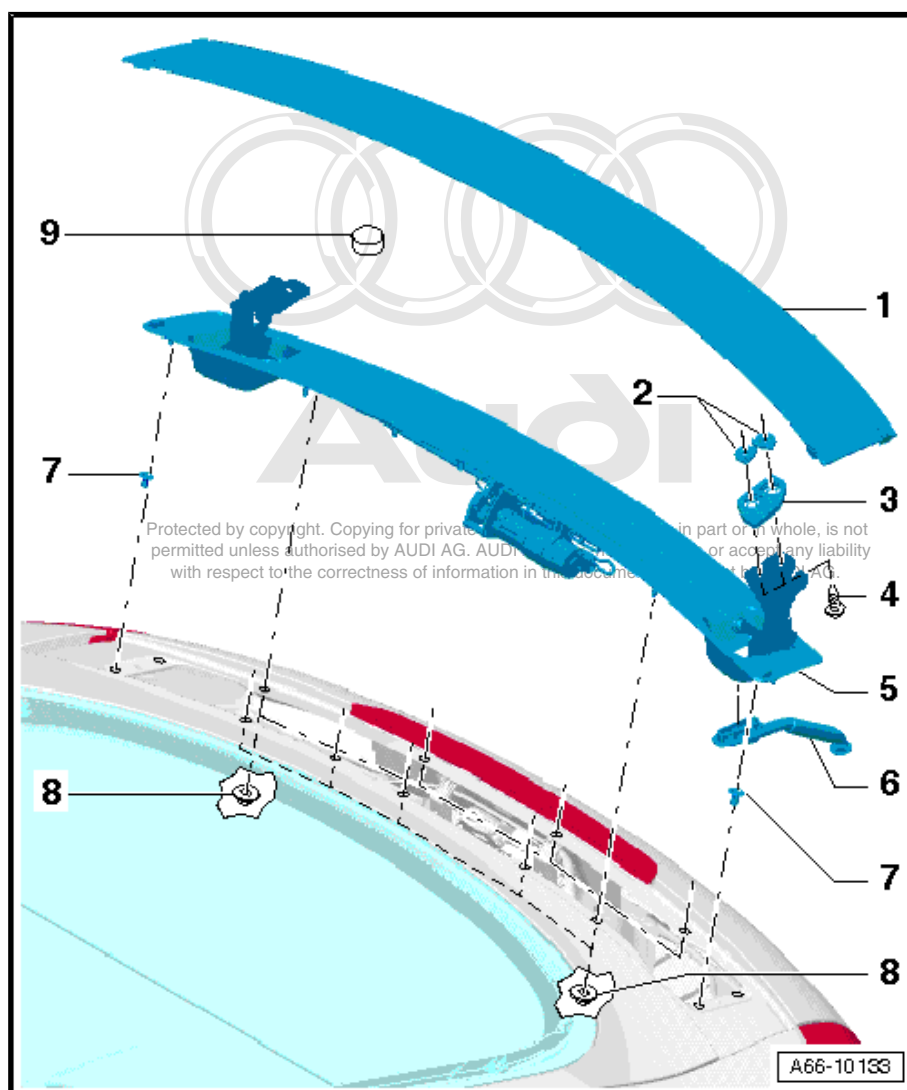


#### Note

- Rear lid trim removed ⇒ Rep. Gr. 70
- Retract spoiler.
- Remove water drain hoses.
- Clip adjuster elements into spoiler.
- Align spacer with adjuster elements and bond onto spoiler.
- Insert spoiler in drive unit and align at sides, top and bottom.
- With assistance of helpers, press spoiler into body contour position and hold in this position.
- Open rear lid and tighten bolts -4- through opening for water drain hoses.
- Fit water drain hoses, taking care to ensure proper positioning and freedom from leaks.

#### 2 - Adjuster element

- ☐ Always renew
- ☐ Clip into spoiler
- ☐ The elements are self-adjusting, i.e. they can be used to provide compensation for differences in height



### 3 - Spacer

- ☐ Self-adhesive

### 4 - Bolt

- ☐ Always renew
- ☐ 6 Nm

### 5 - Drive unit for spoiler

- ☐ Removing:
  - Rear lid trim removed ⇒ Rep. Gr. 70 .
  - Remove water drain hoses.
  - Unplug electrical connector.
  - Unscrew nuts -8- and take drive unit out of rear lid.
- ☐ Installing:
  - Install in reverse order.



Note

### 6 - Water drain hose

- ☐ Always renew

### 7 - Clip

### 8 - Nut



Note

- ☐ 2 Nm

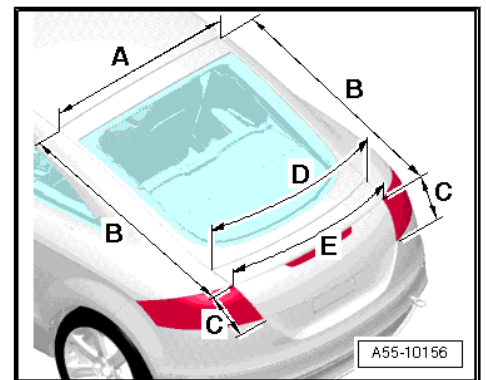
### 9 - Stop piece

- ☐ Self-adhesive

### Gap widths (Coupé)

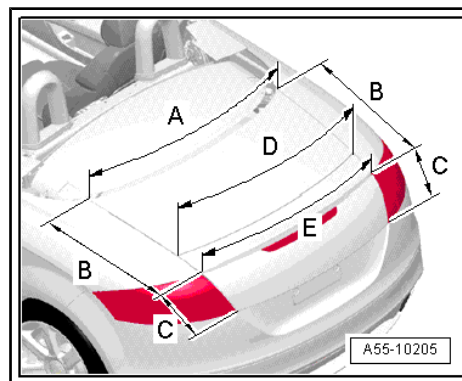
The gap widths can be checked using setting gauge -3371- .

- Dimension -D- = 2 mm
- Dimension -E- = 2 mm



### Gap widths (Roadster)

- Dimension -D- = 2 mm
- Dimension -E- = 2 mm



## 5.2 Wheel spoiler (front) - exploded view

### 1 - Wheel housing liner (bottom section)

- ☐ Wheel spoiler removed
- ☐ Unscrew bolts -2- from bottom section of wheel housing liner and pull out from beneath top section of wheel housing liner.

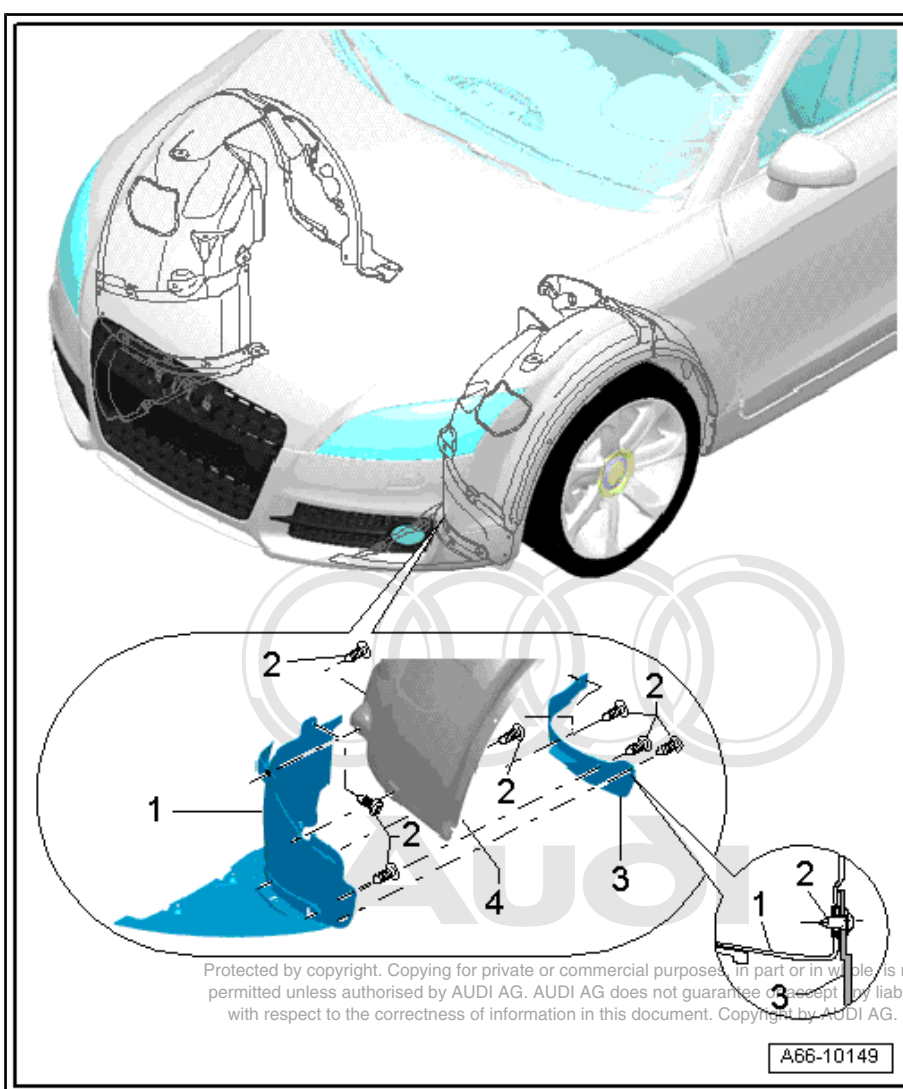
### 2 - Bolt

- ☐ 2 Nm

### 3 - Wheel spoiler

- To remove, unscrew bolts -2-.

### 4 - Wheel housing liner (top section)



### 5.3 Wheel spoiler (rear) - exploded view

**1 - Side member trim**

**2 - Bolt**

□ 1.5 Nm

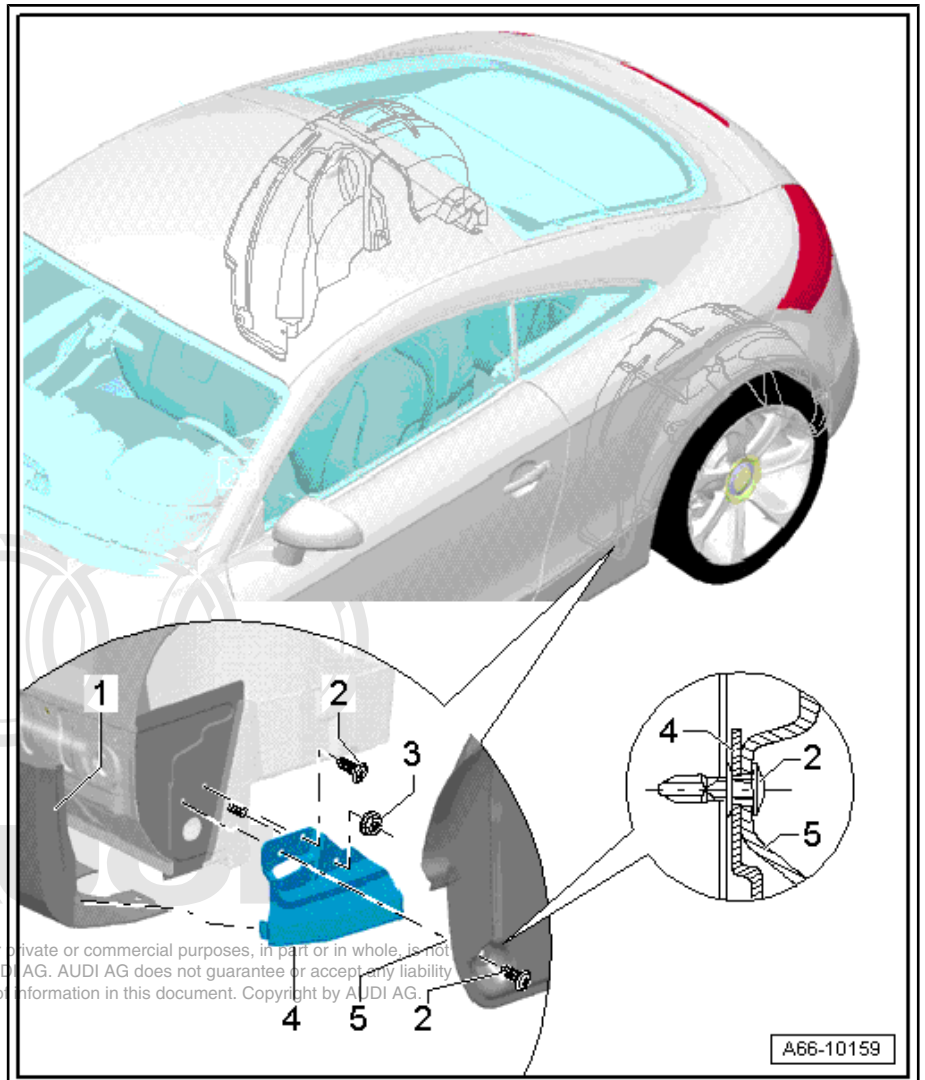
**3 - Nut**

□ 2 Nm

**4 - Wheel spoiler**

- Insert wheel spoiler beneath wheel housing liner (as shown)
- Unfasten wheel housing liner in area of wheel spoiler and move to side.
- Unscrew bolt -2- and nut -3- and pull out wheel spoiler.

**5 - Wheel housing liner (rear)**





## 6 Spoiler - TT RS



### Note

- ♦ The spoiler for the TT RS is assembled from the components shown in the exploded view after painting.
- ♦ The spoiler cannot be dismantled.

### 6.1 Rear spoiler - exploded view

#### 1 - Connector housing

- ☐ Bonded onto spoiler base plate
- ☐ For bridging connector for extendable spoiler

#### 2 - Nut

- ☐ 9x
- ☐ 2 Nm

#### 3 - Sealing cord

- ☐ Renew
- ☐ Attach to spoiler (bottom section) with instant adhesive -AMV 195 KD 101-
- ☐ Make sure there are no gaps at ends

#### 4 - Nut

- ☐ 2x
- ☐ 2 Nm

#### 5 - Spoiler base plate

- ☐ Removing and installing  
⇒ ["6.2 Removing and installing spoiler", page 225](#)
- ☐ Assembling  
⇒ ["6.3 Assembling spoiler", page 226](#)

#### 6 - Cap (right-side)

- ☐ Secured with double-sided adhesive tape

#### 7 - Spoiler (centre section)

- ☐ Assembling  
⇒ ["6.3 Assembling spoiler", page 226](#)

#### 8 - Double-sided adhesive tape

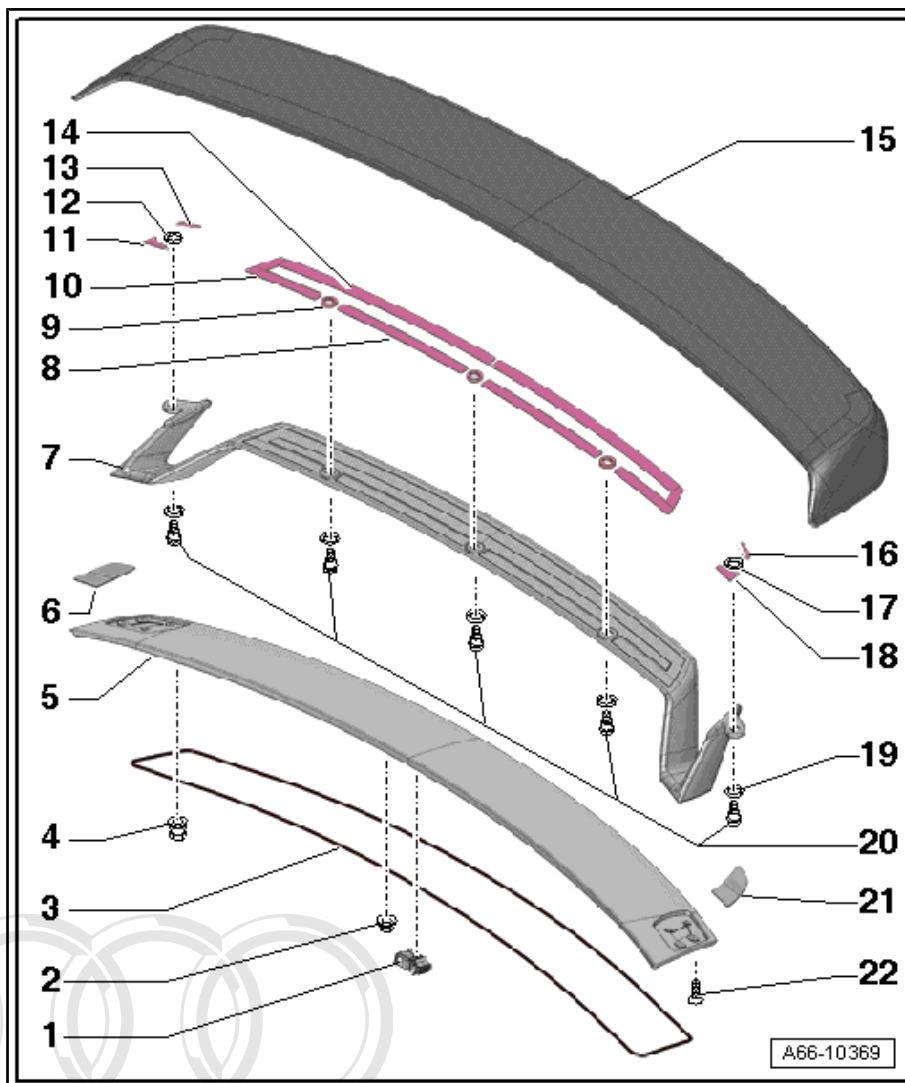
- ☐ Short, straight
- ☐ 2x

#### 9 - Double-sided adhesive tape

- ☐ Circular
- ☐ 3x

#### 10 - Double-sided adhesive tape

- ☐ Angle piece



- ☐ 2x
- 11 - Double-sided adhesive tape**
  - ☐ Front
- 12 - Foil**
  - ☐ Transparent
- 13 - Double-sided adhesive tape**
  - ☐ Rear
- 14 - Double-sided adhesive tape**
  - ☐ Long, straight
  - ☐ 2x
- 15 - Spoiler (top section)**
  - ☐ Assembling ⇒ ["6.3 Assembling spoiler", page 226](#)
- 16 - Double-sided adhesive tape**
  - ☐ Rear
- 17 - Foil**
  - ☐ Transparent
- 18 - Double-sided adhesive tape**
  - ☐ Front
- 19 - Foil**
  - ☐ Circular
  - ☐ Transparent
  - ☐ 5x
- 20 - Bolt**
  - ☐ With collar
  - ☐ 5x
  - ☐ Insert with locking fluid; locking fluid ⇒ Electronic parts catalogue
  - ☐ 7 Nm
- 21 - Cap (left-side)**
  - ☐ Secured with double- sided adhesive tape
- 22 - Bolt**
  - ☐ 4x
  - ☐ 3 Nm

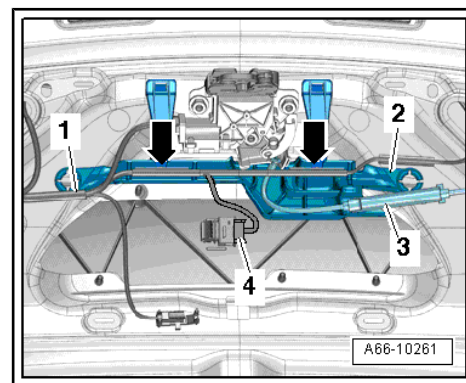
## 6.2 Removing and installing spoiler

### Removing

- Remove rear lid trim (bottom) ⇒ Rep. Gr. 70 .

### Roadster:

- Move clear electrical wiring harness -1- at duct -arrows-.
- Disengage cable at mounting bracket -3-  
⇒ ["5.1 Removing and installing rear lid - exploded view", page 55](#) .
- Pull cable mounting bracket and duct -2- off rear lid.



### All vehicles (continued):

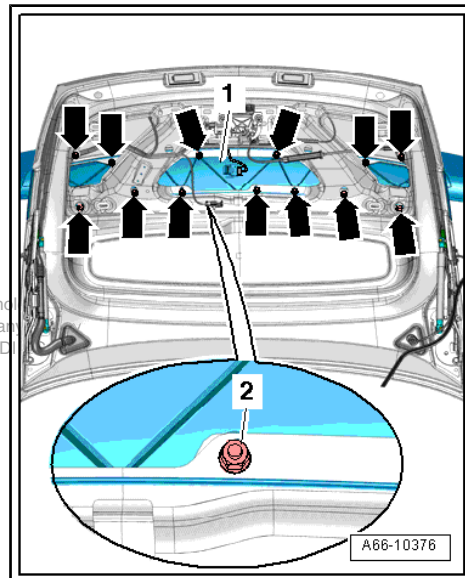
- Unplug electrical connector -1-.
- Unscrew nuts -2- at locations marked with -arrows-.
- Detach spoiler (bottom section)

### Installing

- Tightening torques ⇒ [page 224](#)

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

- Engage cable at mounting bracket  
⇒ ["5.1 Removing and installing rear lid - exploded view", page 55](#).
- Install rear lid trim (bottom) ⇒ Rep. Gr. 70 .



## 6.3 Assembling spoiler

### Special tools and workshop equipment required

- ◆ Instant adhesive -AMV 195 KD 101-
- ◆ Locking fluid -D 000 006-
- ◆ Cleaning solution -D 009 401 04-
- ◆ 3x hexagon socket head bolt (M6 x 5.5 mm)

### Procedure

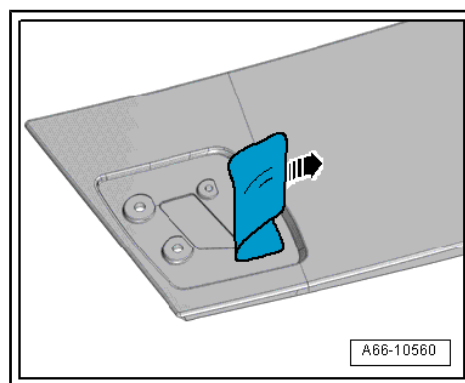
- Tightening torque ⇒ [page 224](#)



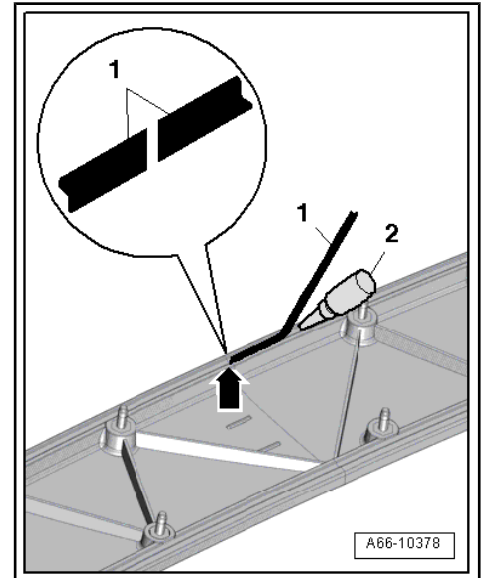
### Note

*The spoiler for the TT RS is assembled from the components shown in the exploded view after painting.*

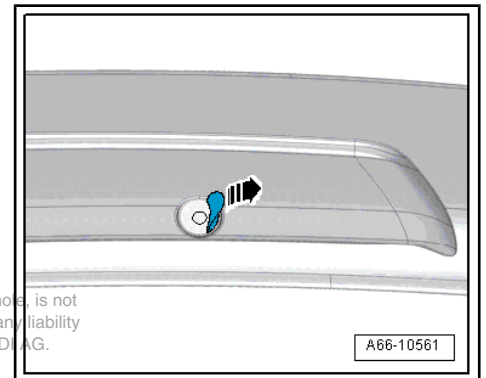
- Individual components of spoiler painted.
- Place spoiler base plate on a soft, clean surface on workbench.
- Peel off foil at threaded connection points -arrows-.



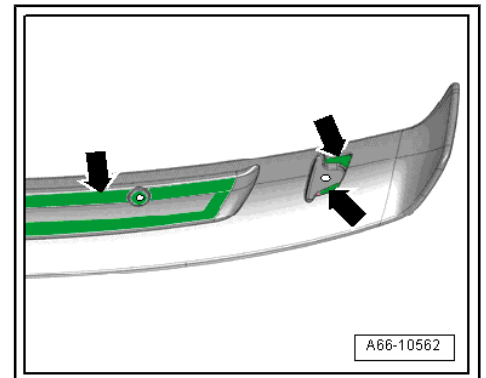
- Turn spoiler base plate around.
- Threaded studs should face upwards.
- Clean recess for sealing cord with cleaning solution -D 009 401 04- .
- Attach sealing cord -1- in recess using instant adhesive -AMV 195 KD 101- -item 2-.
- Both ends of sealing cord should be in centre of spoiler base plate at rear -arrow-.
- Cut ends of sealing cord diagonally and bond together.



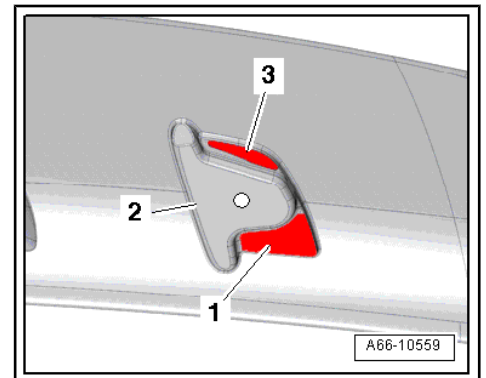
- Place spoiler (top section) on a soft, clean surface on work-bench.
- Peel off foil at threaded connection points -arrows-.



- Clean all surfaces -arrows- that will come into contact with double-sided adhesive tape later with cleaning solution -D 009 401 04- .

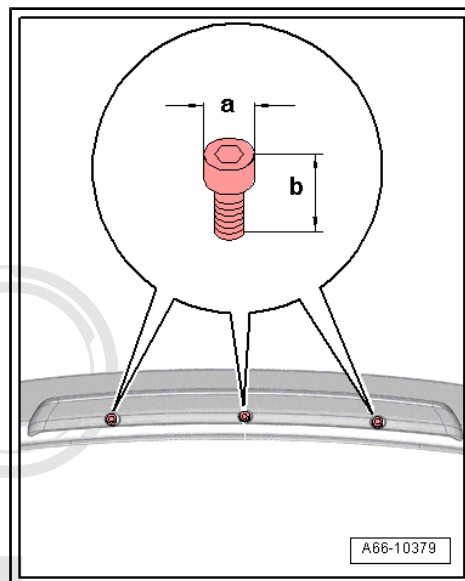


- Stick double-sided adhesive tape -1- and -3- onto outside of attachment surface -item 2- (left and right), as shown in illustration.

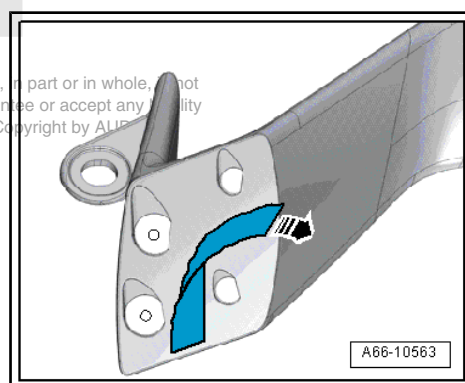


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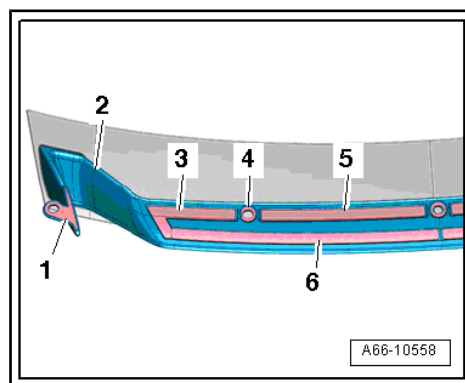
- Screw in hexagon socket head bolts with dimensions -a- and -b- into three central holes in top section of spoiler (as centring pins).
- Dimension -a- = approx. 9.8 mm
- Dimension -b- = 5.5 mm



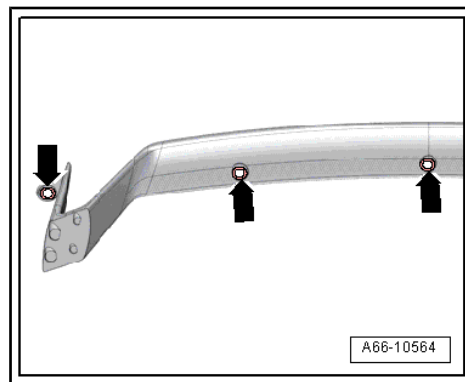
- Place spoiler (centre section) on a soft, clean surface on workbench.
- Peel off foil at contact surfaces to base plate.
- Roughen contact surfaces to base plate with sandpaper and clean with cleaning solution -D 009 401 04- .



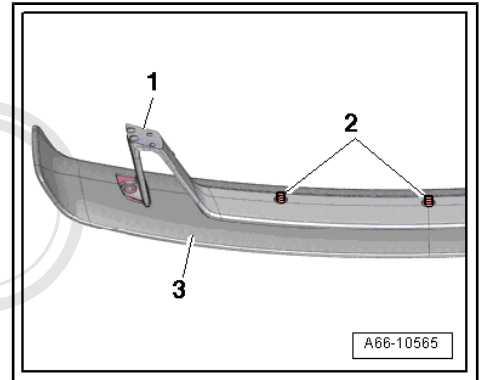
- Turn spoiler (centre section) around.
- Clean all surfaces that will come into contact with double-sided adhesive tape later with cleaning solution -D 009 401 04- .
- Attach foil -1- and double-sided adhesive tape -3 ... 6- to centre section of spoiler -2-, as shown.



- Turn around centre section of spoiler with top section.
- Bond on circular foil -arrows- at threaded connection points.

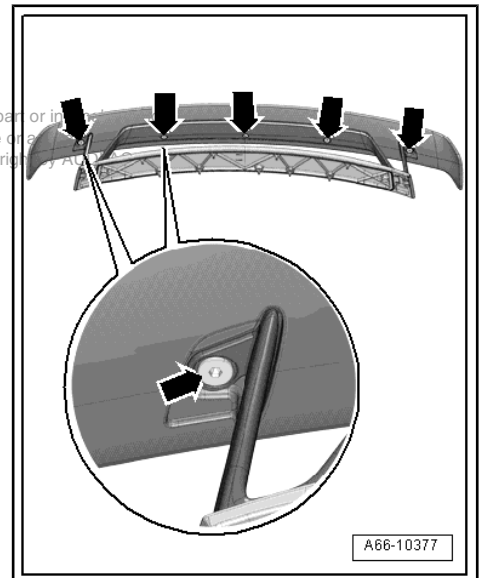


- Peel off protective film of all double-sided adhesive strips and position centre section of spoiler -1- on top section of spoiler -3- via centring aids -2-.
- Press components onto each other by hand.

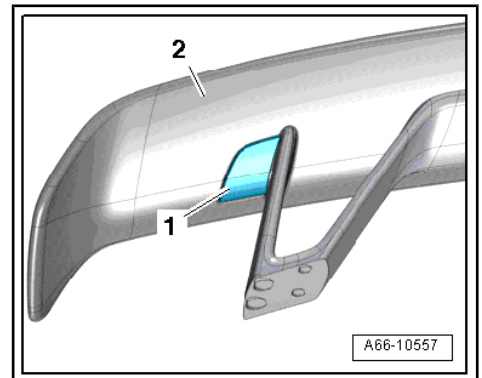


- Coat flanged bolts with locking fluid -D 000 006- and position them at points marked with -arrows-.
- Remove centring aids and tighten bolts to torque from inside to outside.

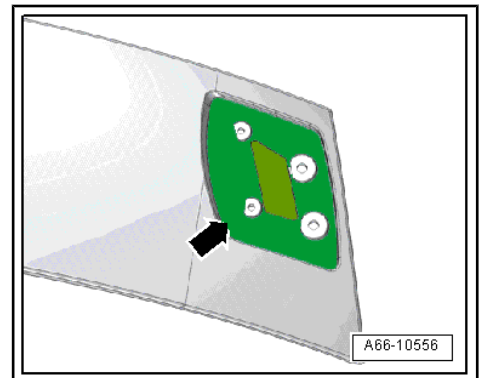
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- Position cap -1- on double-sided adhesive tape strips on top section of spoiler -2-.
- Press cap on firmly by hand.

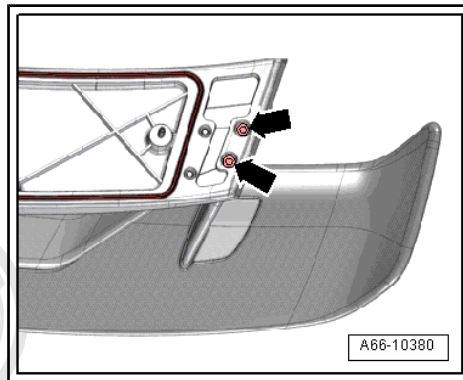


- Clean bonding area -arrow- on base plate with cleaning solution -D 009 401 04-.

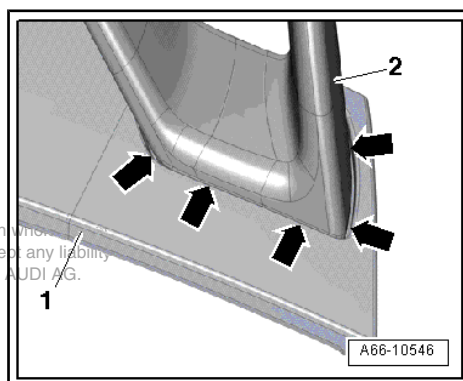




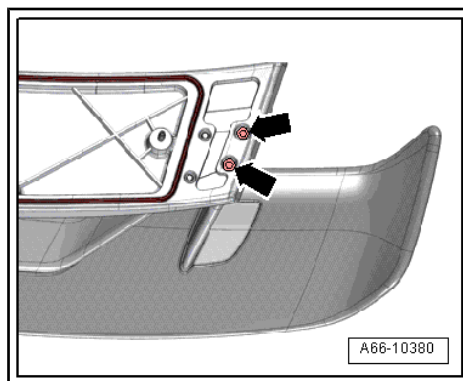
- Position centre section of spoiler with top section on base plate and secure it with two bolts on each side -arrows-.



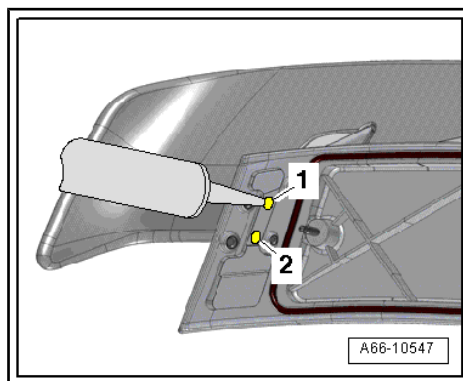
- Check gap width -arrows- between spoiler base plate -1- and centre section of spoiler -2-; align if necessary.



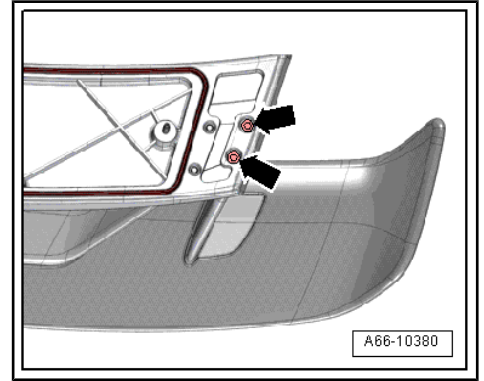
- Tighten bolts -arrows- to specified torque on both sides  
⇒ [Item 22 \(page 225\)](#) .



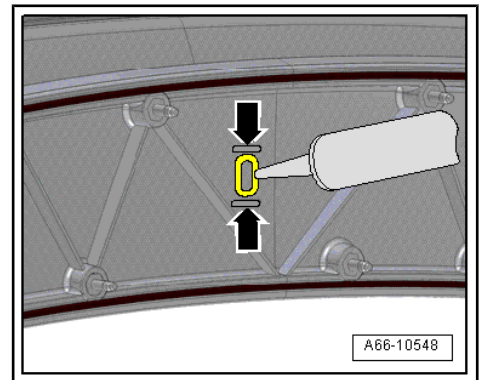
- Apply adhesive cartridge from installation set to hole -1- in spoiler base plate.
- Squeeze adhesive into hole until it emerges from other hole -2-.
- Repeat procedure on opposite side.



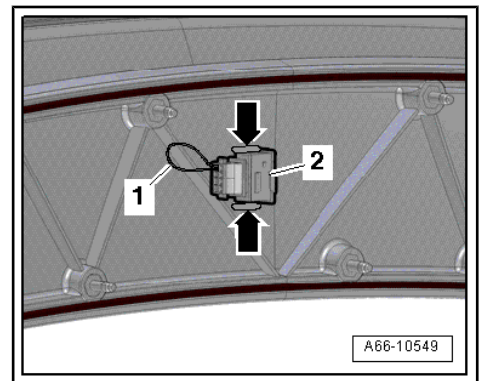
- Using adhesive cartridge from installation set, apply adhesive bead all around bolt heads -arrows- on both sides and smooth down.



- Apply adhesive bead between markings -arrows- on reverse side of spoiler base plate with adhesive from installation set, as shown in illustration.



- Position bridge connector -2- between markings -arrows-, as shown, and press on by hand until adhesive has dried.
- Bridge cable -1- must point to the left (as seen in direction of travel).



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## 7 Trim on underbody

### 7.1 Removing and installing noise insulation - exploded view

**1 - Bolt**

- ☐ 6 Nm

**2 - Bolt**

- ☐ 2 Nm

**3 - Noise insulation**

- ☐ Removing:

- Unscrew bolts -1- and -2- and pull out noise insulation from underneath bumper and towards rear.

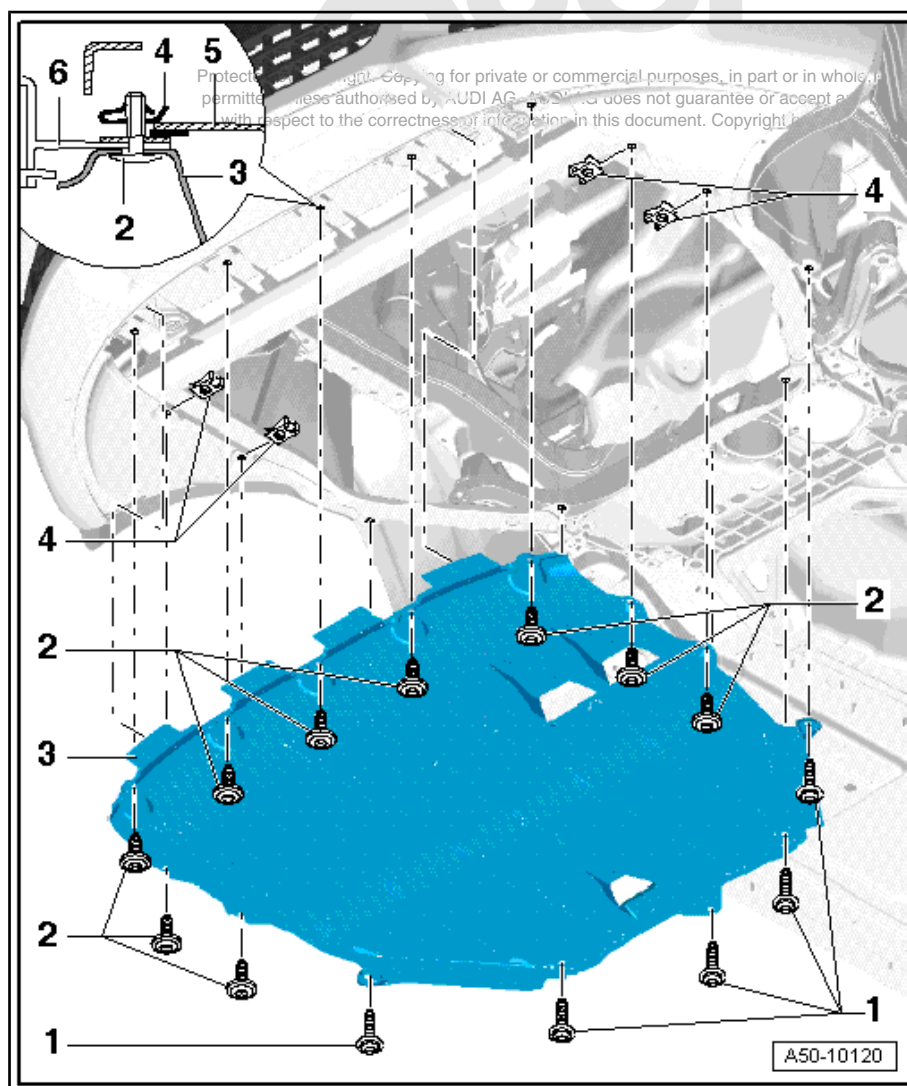
- ☐ When installing, noise insulation must be inserted at front beneath bumper.

**4 - Speed nut**

- ☐ Attached to side of bumper

**5 - Lock carrier**

**6 - Bumper**



## 7.2 Heat shields

### Heat shield for bulkhead

**1 - Nut**

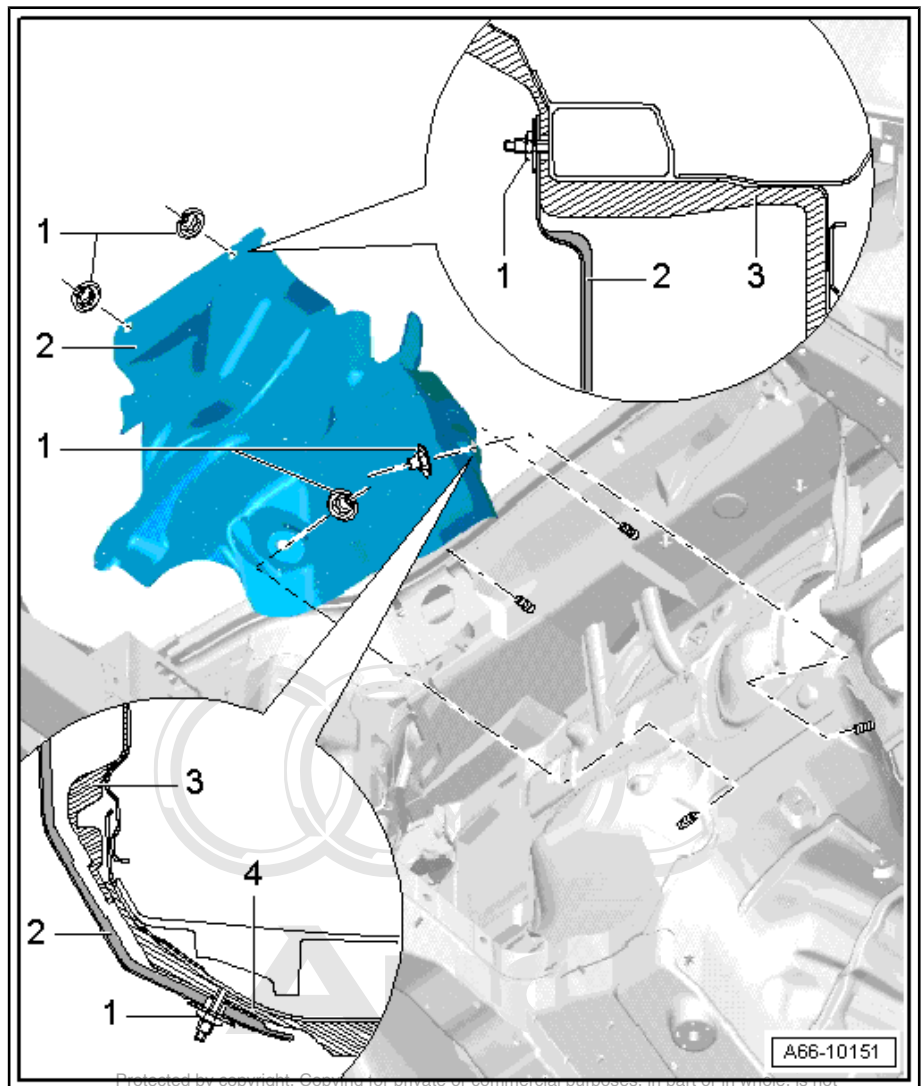
□ 2 Nm

**2 - Heat shield**

**3 - Insulation for bulkhead**

□ Positioned at joint over insulation for centre tunnel (as shown)

**4 - Insulation for centre tunnel**

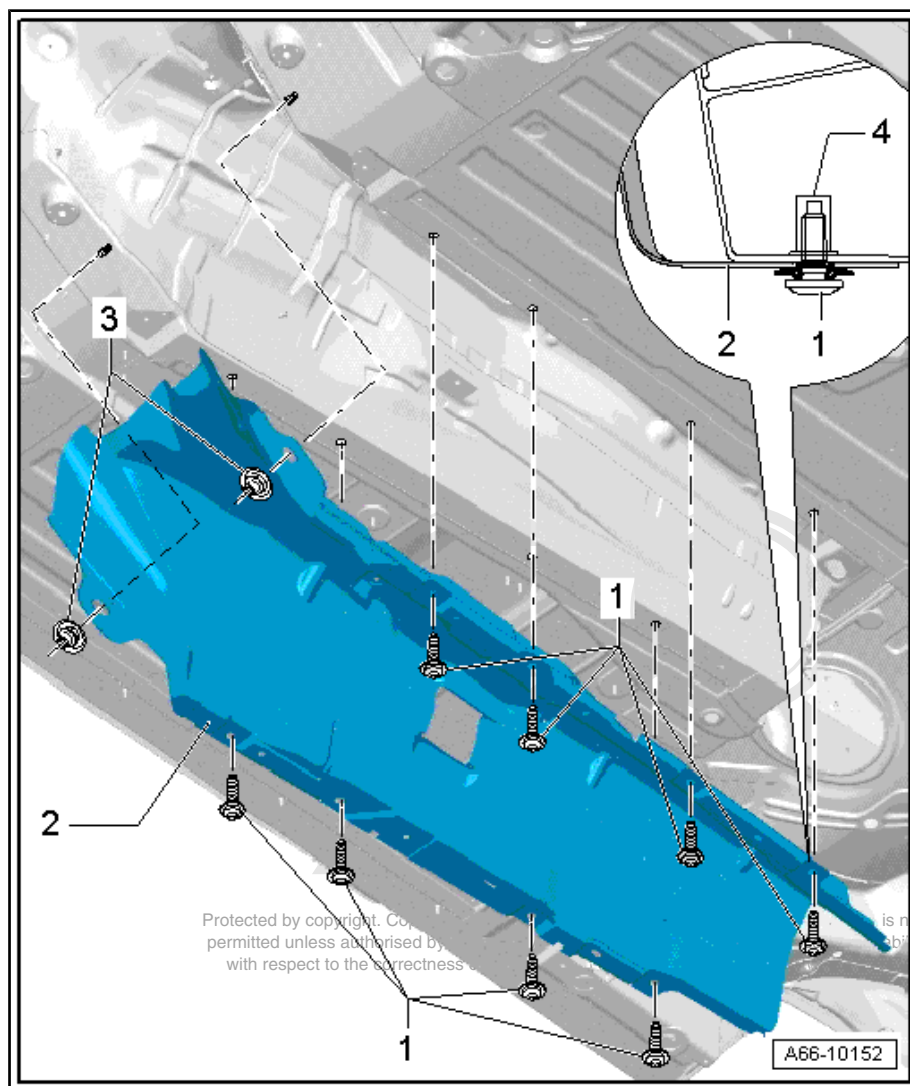


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### Heat shield for centre tunnel

- 1 - Bolt  
□ 8 Nm
- 2 - Heat shield
- 3 - Nut  
□ 8 Nm

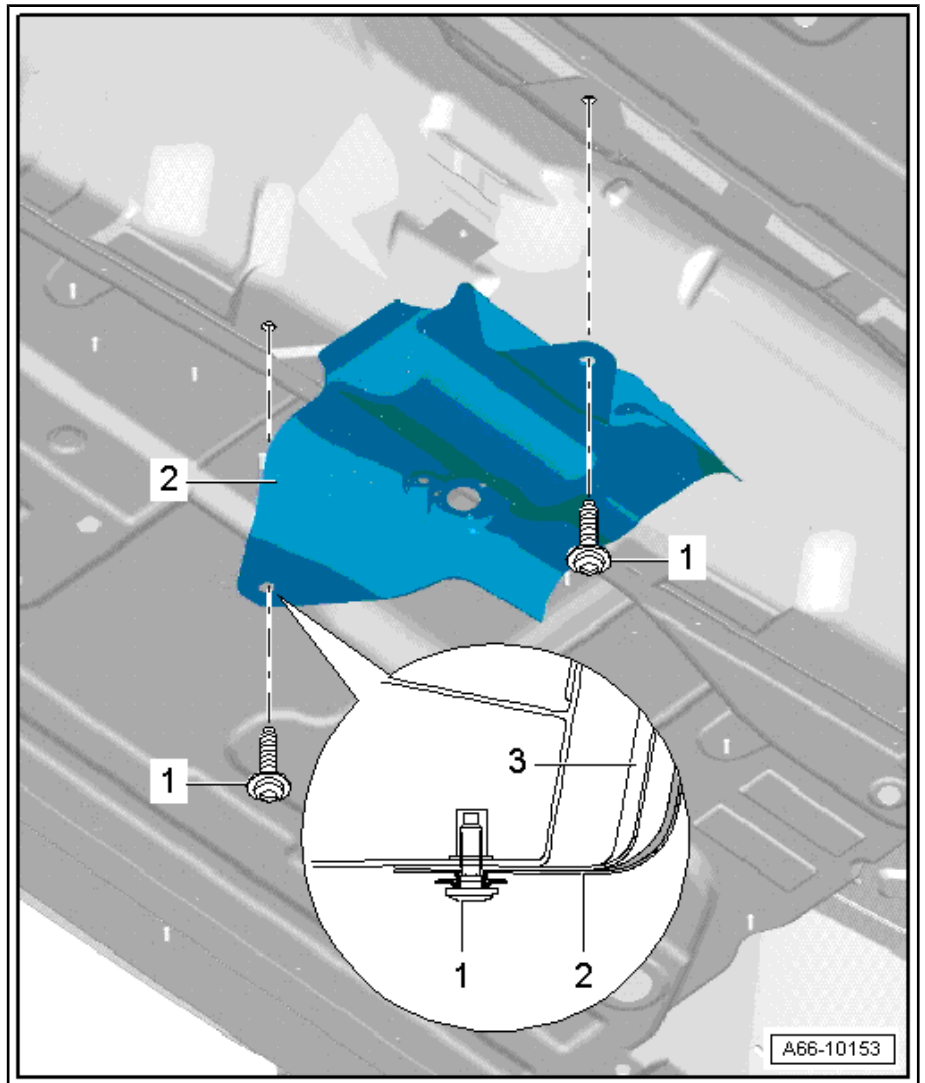


Heat shield for centre bracket

1 - Bolt

□ 8 Nm

2 - Heat shield



Heat shield for centre silencer



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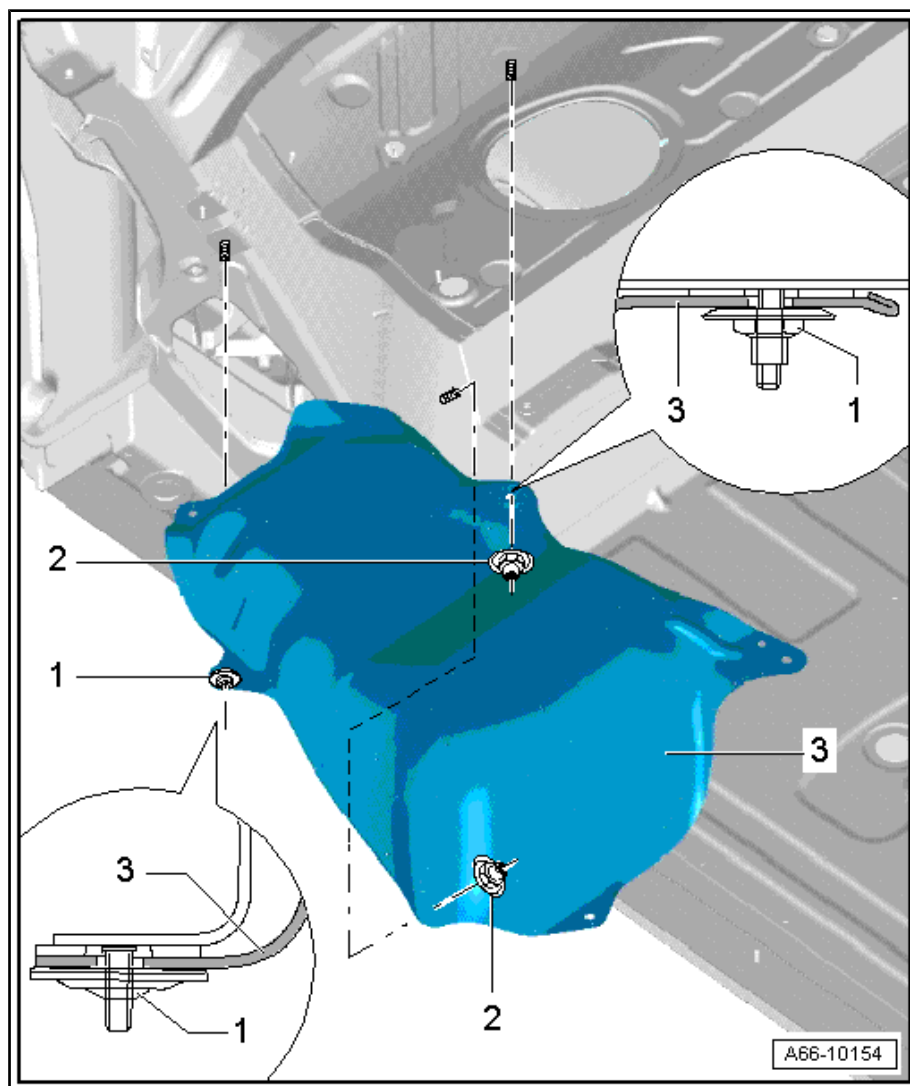
**1 - Lock washer**

- ☐ Unscrew from stud when removing
- ☐ When installing, lock washer is knocked onto stud

**2 - Nut**

- ☐ 2 Nm

**3 - Heat shield**



**Head shield for rear silencer**

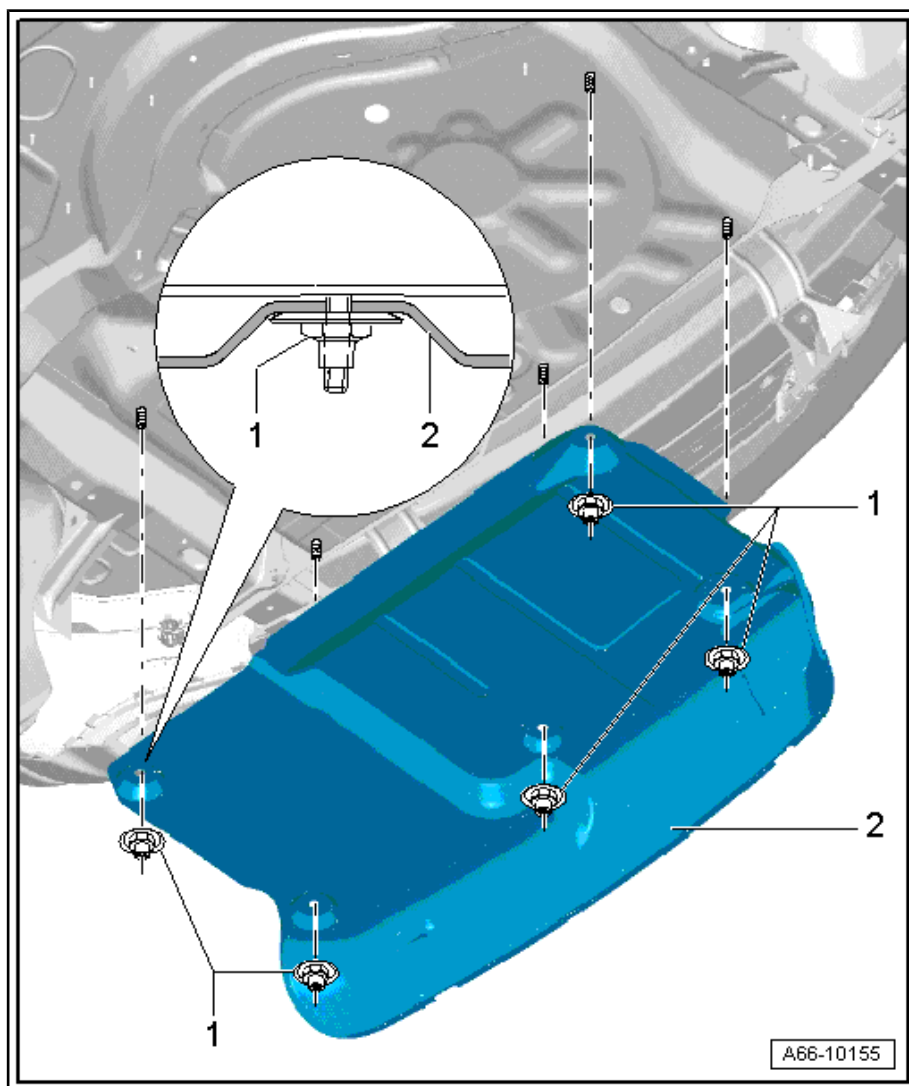


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1 - Nut

□ 4.5 Nm

2 - Heat shield



Trim for centre silencer



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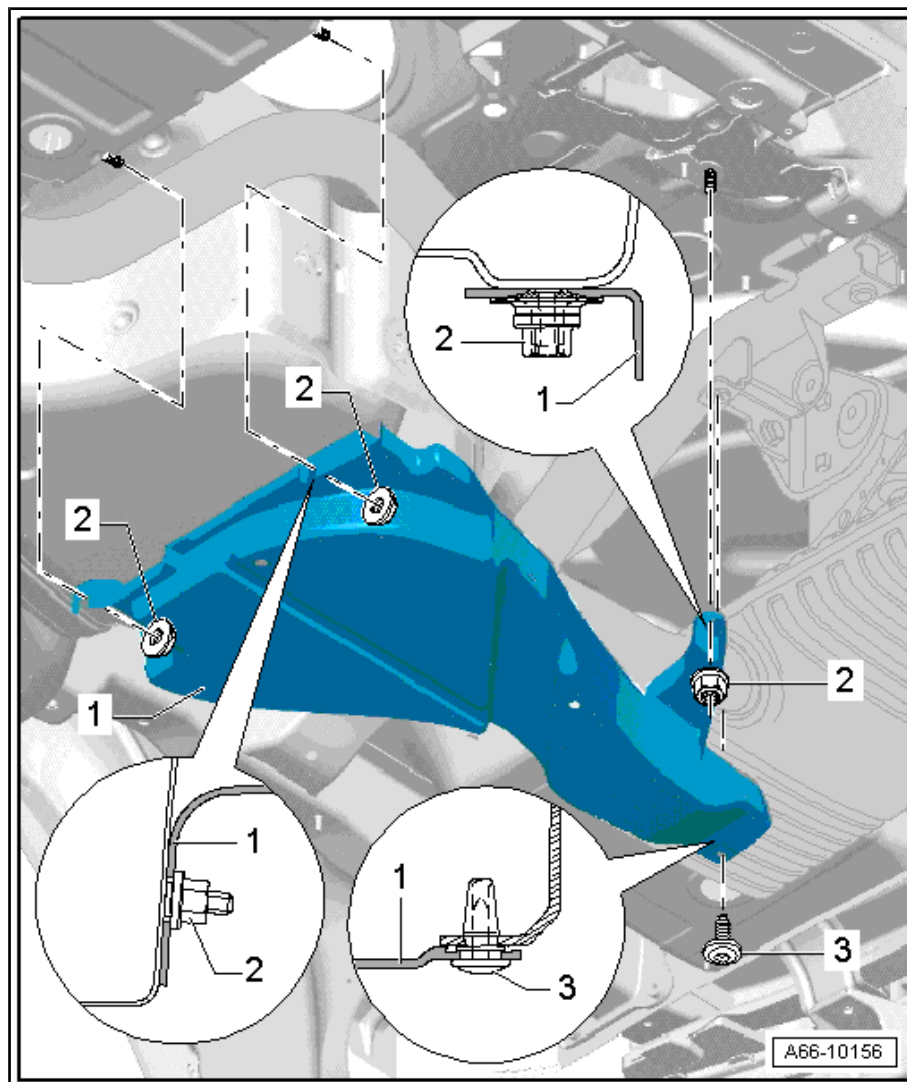
**1 - Trim for centre silencer**

**2 - Nut**

□ 2 Nm

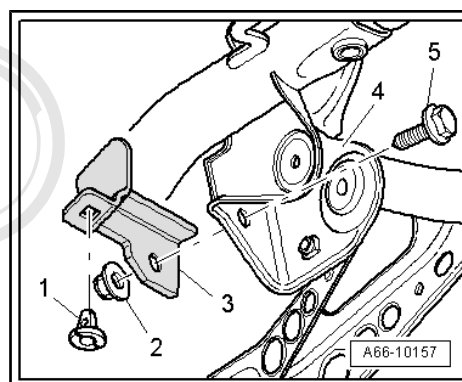
**3 - Bolt**

□ 2 Nm



**Retaining bracket for trim**

- Attach retaining bracket -3- with bolt -5- and nut -2- to sub-frame -4-.
- Clip -1- pressed into retaining bracket



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## 8 Wheel housing liners

### 8.1 Removing and installing wheel housing liner (front) - exploded view

#### 1 - Wheel housing liner (front)

- ☐ Removing:
- ☐ Set front wheel to appropriate angle.
- ☐ Unscrew all bolts and nuts from wheel housing liner.
- ☐ Detach fasteners from wheel housing liner and side member trim (front).
- Disengage wheel housing liner from wing and pull it out downwards.
- ☐ Install in reverse sequence.

#### 2 - Fastener

#### 3 - Nut

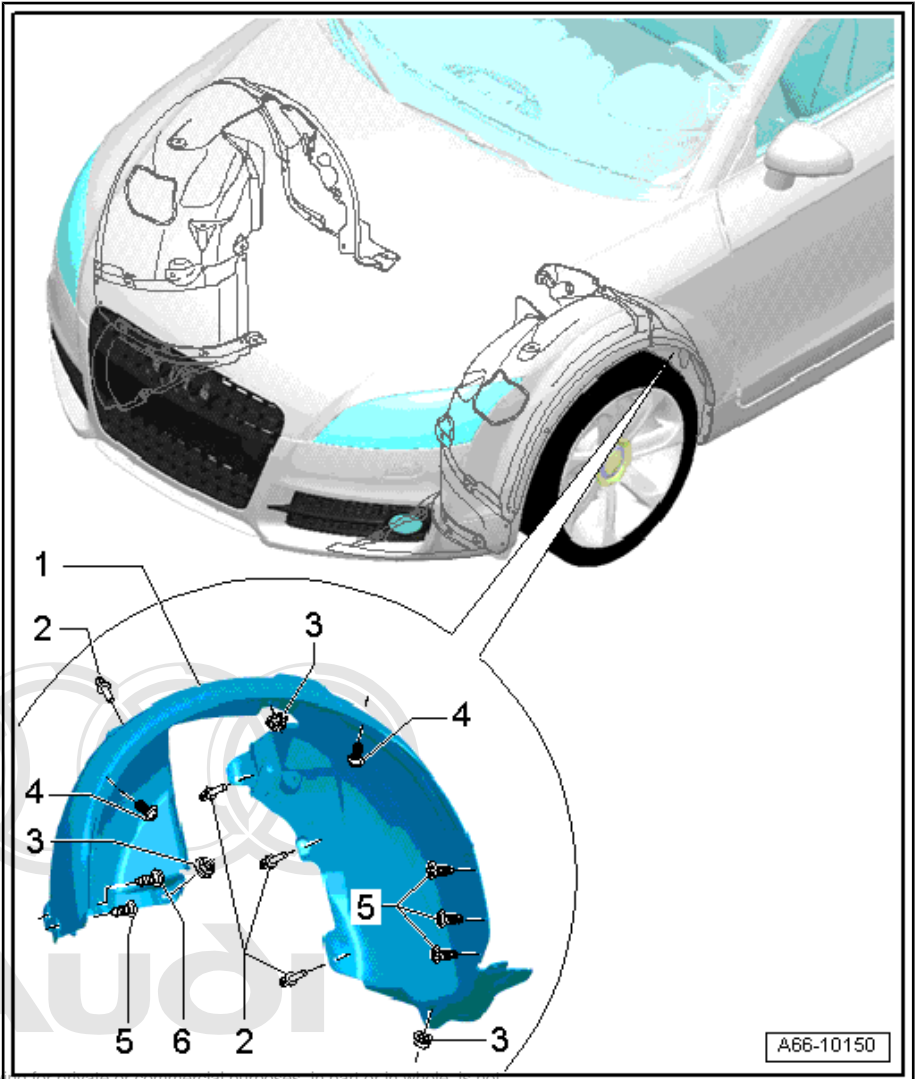
- ☐ 2 Nm

#### 4 - Bolt

- ☐ 1.5 Nm

#### 5 - Bolt

- ☐ 1.5 Nm



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## 8.2 Removing and installing wheel housing liner (rear) - exploded view

### 1 - Wheel housing liner (rear)

- Rear wheel removed
  - ❑ Removing:
    - Vehicles without fastener: Unscrew nuts  
⇒ [Item 2 \(page 240\)](#)  
and bolts  
⇒ [Item 3 \(page 240\)](#).
    - Vehicles with fastener  
⇒ [page 240](#)
    - Take out wheel housing liner downwards.
  - ❑ Install in reverse sequence.

### 2 - Nut

- ❑ 2 Nm

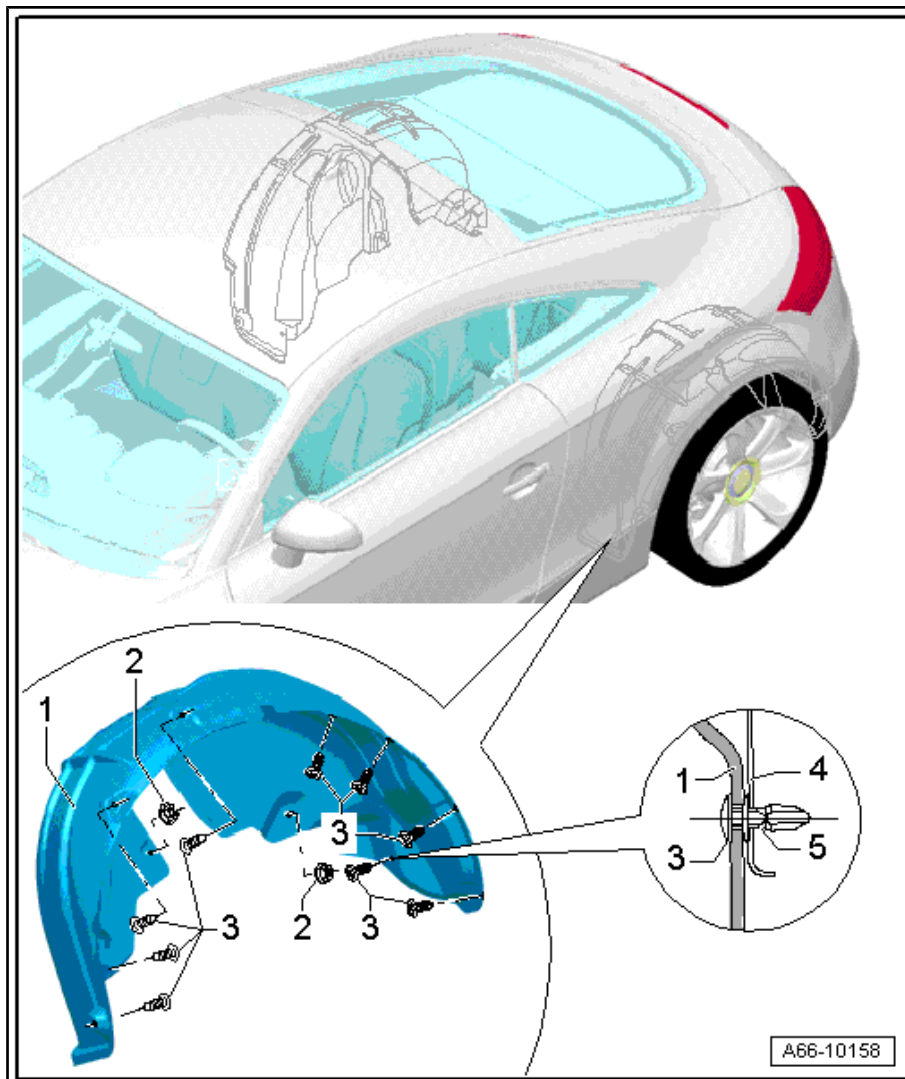
### 3 - Bolts

- ❑ 1.5 Nm

### 4 - Side panel

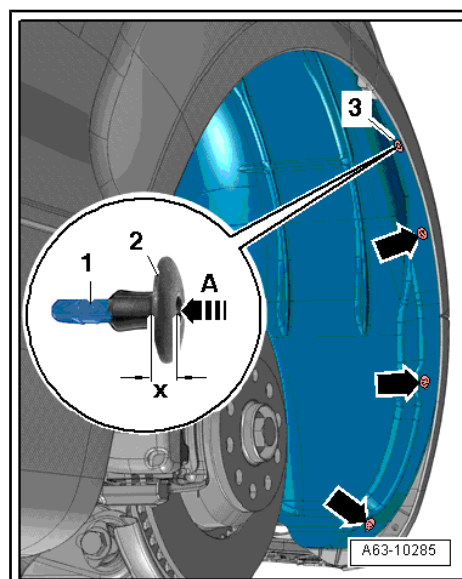
### 5 - Expanding nut

- ❑ Pressed into side panel



### Wheel housing liner (rear) with fastener

- Unscrew bolts -arrows- and bolts at wheel housing liner and detach fastener -3-.
- To remove fastener, carefully press locking pin -1- into fastener -arrow A- by dimension -x- until it engages audibly.
- Dimension -x- = 5 mm
- Pull out released fastener -2- together with locking pin.



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## 9 Model emblems

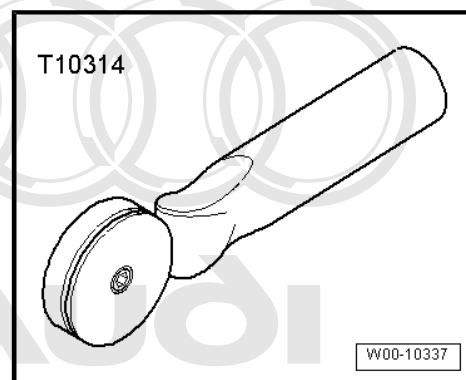


### Caution

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

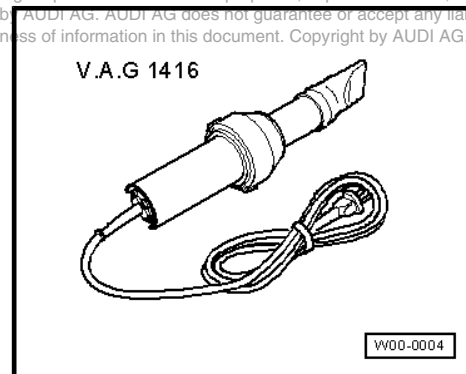
### Special tools and workshop equipment required

- ◆ Roller -T10314-



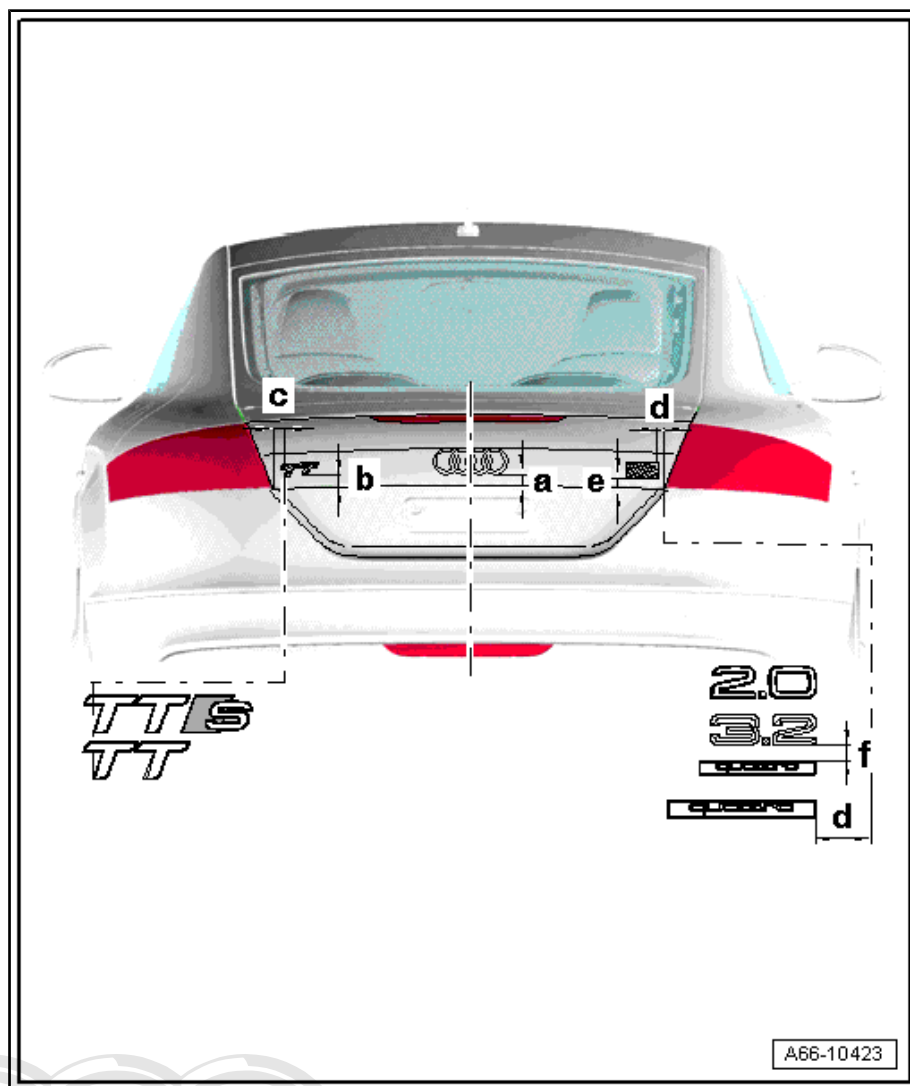
- ◆ Hot-air blower -V.A.G 1416-

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### Dimensions for rear lid



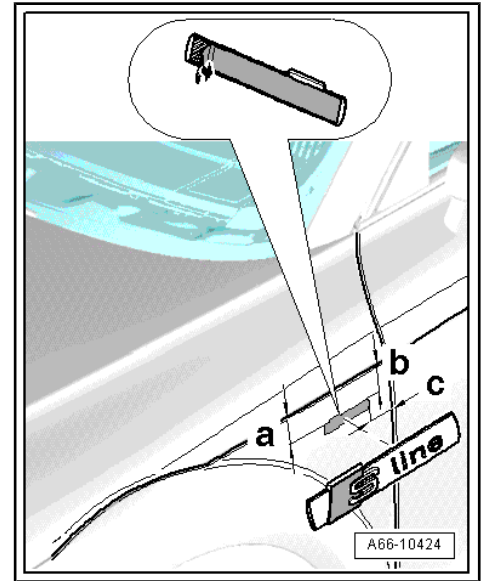


- ◆ Dimension -a- = 33 mm
- ◆ Dimension -b- = 22 mm
- ◆ Dimension -c- = 27 mm
- ◆ Dimension -d- = 27 mm
- ◆ Dimension -e- = 17.5 mm
- ◆ Dimension -e- = 22 mm
- ◆ Dimension -f- = 4 mm

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### Dimensions for wing panel

- Peel off protective film -arrow- before fitting.
- ◆ Dimension -a- = 41 mm
- ◆ Dimension -b- = 42 mm
- ◆ Dimension -c- = 34 mm



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