

## Installation Instructions

### A3 2005 ➤

<b>Body</b>
<b>Retrofitting roof railing on A3 Sportback</b>
Edition 05.06

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# 1 Parts allocation and tools

## 1.1 Parts allocation

The required conversion is available for the Audi A3 Sportback as parts kits. The following tables each contain a complete retrofit kit:

### Parts kit for chrome roof railing -8P4 098 021-

Quantity	Part No.	Description
1	8P4 860 021 J 2ZZ	Left chrome roof railing
1	8P4 860 022 J 2ZZ	Right chrome roof railing
8	8P4 861 195 A	Mechanical compensation element
8	N 905 708 02	Hexagon nut with washer
1		Pencil/pen 88 point
1		Left drilling template
1		Right drilling template
1		Installation instructions CD

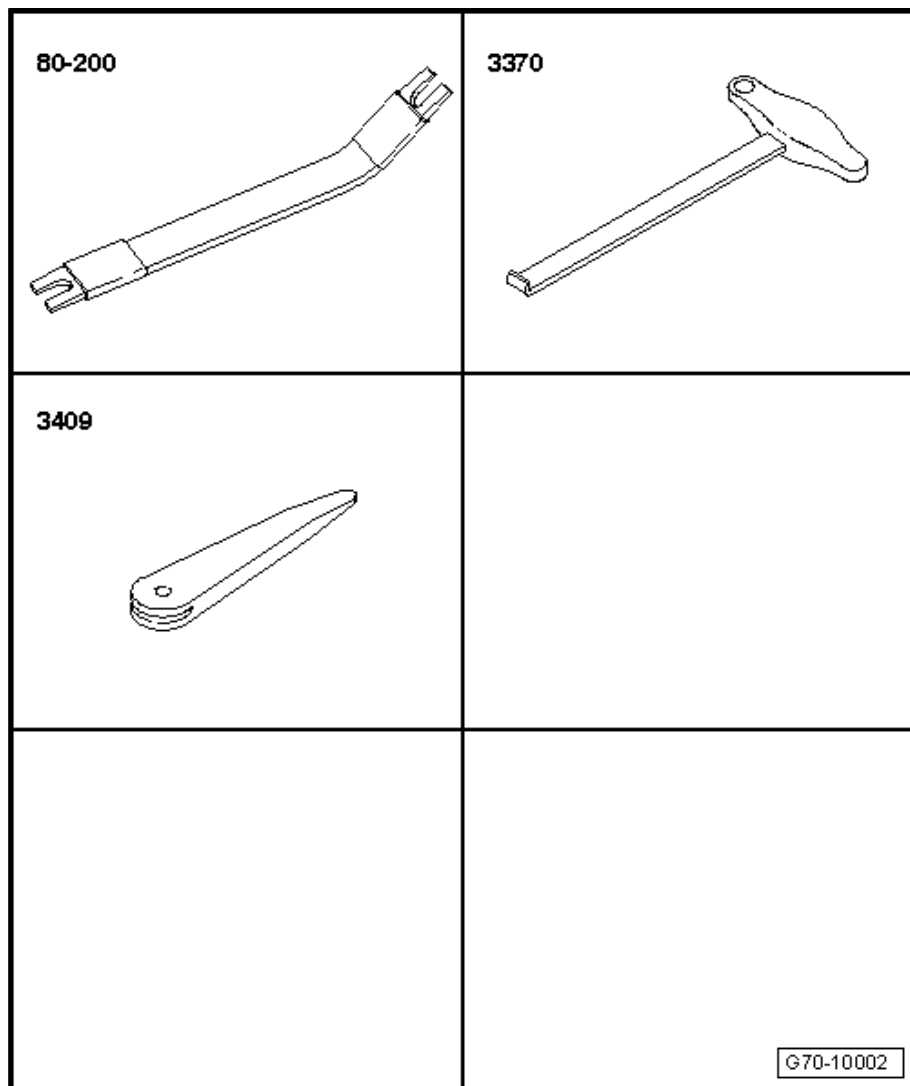
### Parts kit for black roof railing -8P4 098 021 A-

Quantity	Part No.	Description
1	8P4 860 021 H 1P9	Left black roof railing
1	8P4 860 022 H 1P9	Left black roof railing
8	8P4 861 195 A	Mechanical compensation element
8	N 905 708 02	Hexagon nut with washer
1		Pencil/pen 88 point
1		Left drilling template
1		Right drilling template
1		Installation instructions CD

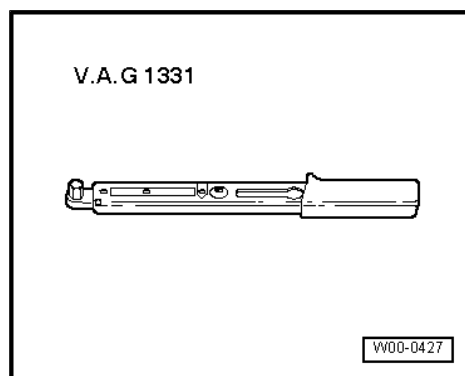
## 1.2 Tools

Special tools, testers, measuring instruments and auxiliary items required

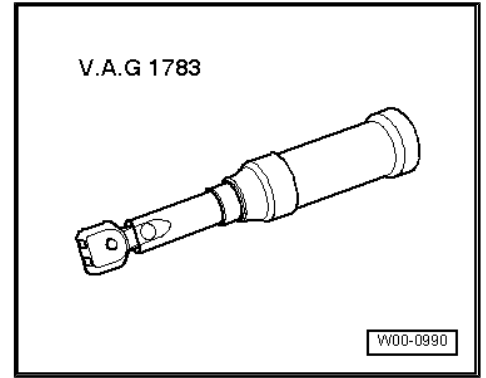
- ◆ Removal lever -80-200-
- ◆ Hooks for front end -3370-
- ◆ Removal wedge -3409-



- ◆ Torque wrench -V.A.G 1331-



◆ Torque wrench -V.A.G 1783-



## 2 Airbag safety precautions

### 2.1 General safety precautions when working on airbag system

- ◆ Testing, removing, installing and repair work may only be performed by qualified personnel.
- ◆ Before handling airbag units (e.g. disconnecting electrical connections), the person handling the units must electrostatically discharge themselves. i.e. briefly touch a door lock striker plate.
- ◆ Never perform tests with a test lamp, voltmeter or ohmmeter.
- ◆ Airbag system may only be checked in its installed position using a suitable vehicle diagnosis, testing and information system (e.g. vehicle diagnosis, testing and information system -VAS 5051B- ).
- ◆ Voltage supply must be disconnected for all work on airbag system.
- ◆ Conventional ignition lock: observe notes on procedure for disconnecting the battery → [page 28](#) .
- ◆ Electronic ignition lock e.g. A6 from model year. 2005; A8 from model year 2003):: when removing airbag the battery must be disconnected with ignition switched on. This differs from the description Disconnecting and reconnecting battery ( → [page 28](#) ).
- ◆ Disconnect battery earthing strap/cable, cover negative terminal. No waiting time is necessary after disconnecting the battery.
- ◆ There must be nobody in the vehicle when reconnecting the battery.
- ◆ Observe procedures required after reconnecting battery → [page 29](#) .
- ◆ Airbag units must be installed immediately after they are removed from their packaging.
- ◆ If work is interrupted, the airbag unit must be replaced in its transportation container.
- ◆ Leaving airbag unit unattended is prohibited.
- ◆ Removed airbag units must be stored with the padded side facing up.
- ◆ Never open or repair airbag components. Always use new components.
- ◆ Airbag units which have been dropped onto a hard surface or show signs of damage must not be installed in the vehicle.
- ◆ Always wash hands after handling airbag units which have triggered.
- ◆ Storage and transportation are subject to legislation of respective countries.
- ◆ Exchange of airbag units.

Adhere strictly to the following procedure when exchanging airbag units:

- 1 - Remove old airbag unit and place down with padded side uppermost. Note deviations for head/curtain airbag in → [page 6](#) .
  - 2 - Remove new airbag unit from transportation container and place down with padded side uppermost. Note deviations for head/curtain airbag in → [page 6](#) .
  - 3 - Immediately place old airbag unit in transportation container.
  - 4 - Install new airbag unit in vehicle.
- ◆ There are no regulated exchange intervals for airbag units.
  - ◆ Do not apply grease, cleaning agents or similar substances to the airbag units.
  - ◆ Airbag units must not even briefly be subjected to temperatures above 100 °C.
  - ◆ Module must always be exchanged when material is contaminated with impurities such as oil, grease, paint, lacquer and solvents.

## 2.2 Additional safety precautions for side airbag

- ◆ We recommend the use of genuine seat covers.
- ◆ Under no circumstances should seat or protective covers be fitted over a seat unless the covers have been expressly approved by Audi for use on seats with side airbags.
- ◆ The foam padding in the backrest must not be cut away in the vicinity of the side airbag.
- ◆ When installing, ensure the seam for the side airbag is straight.
- ◆ All cover clips (metal and plastic clips) must be renewed.
- ◆ We only recommend the use of genuine cover clips.
- ◆ When installing, all cover clips must be fitted in the same positions as the original ones.
- ◆ If the seat cover fabric is damaged (tears, burn marks, etc.) in the vicinity of the side airbag, the cover must be replaced for safety reasons, as otherwise the side airbag will not inflate properly.
- ◆ No repairs may be performed on the backrest cover fabric near the side airbag (original fabric has special thread and exactly defined seams).
- ◆ Always renew backrest padding after side airbag has been triggered.
- ◆ All damaged components must be renewed after an accident. The original airbag unit can still be used if no signs of damage are found.
- ◆ If side airbag units are renewed, remove airbag number sticker from the new side airbag unit and stick it over the old one on the base of the seat.
- ◆ Never use padding needles or poke any other sharp objects through the seat cover fabric in the vicinity of the airbag and sensor mat.

## 2.3 Additional safety precautions for head/curtain airbag

- ◆ Before each installation, perform a visual check of trim for damage.
- ◆ Trim must never be repaired (upper A-pillar, upper B-pillar, upper C-pillar and D-pillar trims).
- ◆ When installing, ensure trim is fitted correctly.
- ◆ The head/curtain airbag module may only be kinked/bent at the prescribed position (transition from roof to A-pillar).
- ◆ Always remove the complete module when making repairs behind the head/curtain airbag.
- ◆ Place removed head/curtain airbag modules in a transportation container or on a clean flat surface (place down on a blanket or in luggage compartment).
- ◆ After bodywork repairs in the vicinity of the head/curtain airbag, check area for weld spray droplets, deformations and abrasive areas (compare with opposite side if necessary).
- ◆ Always hold head/curtain module securely in your hands.
- ◆ Always place removed head/curtain airbag modules together and grasp on gas generator (thumb towards electrical connection).
- ◆ Always hold on gas generator with one of your hands.
- ◆ Never turn, wind, knot, throw, pitch, pull, hang, squash, press, pinch or clamp head/curtain airbag modules.



### 3 Freeing assembly area for roof railing

This assembly instruction is divided into sections which should help ease the relevant procedures.

#### 3.1 Removing and installing rear bench seat

##### Removing

- Lift front of rear bench seat -1- and pull rear bench seat out forwards.

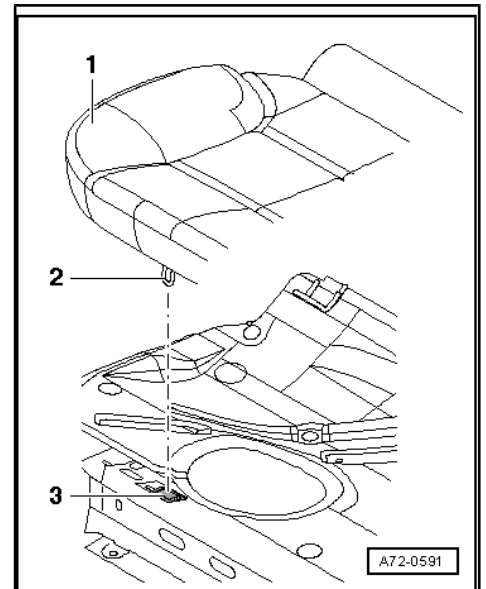
##### Installing



##### Note

*When installing, take care not to damage the plastic sleeves -3- (Qty 2).*

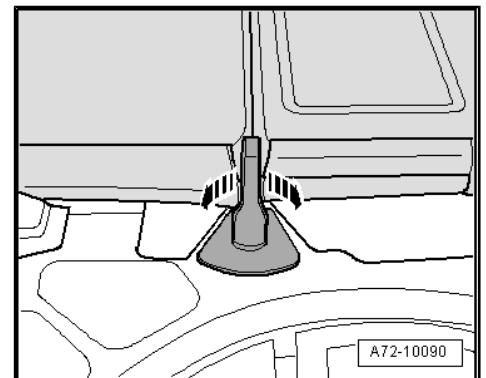
- Engage anchorage eyes -2- (Qty. 2) in plastic sleeves -3- (Qty 2).
- Push rear bench seat -1- down.



#### 3.2 Removing and installing left 1/3 and right 2/3 section of backrest

##### Removing

- Remove luggage compartment floor covering.
- Release cap for retaining clips -arrows-.



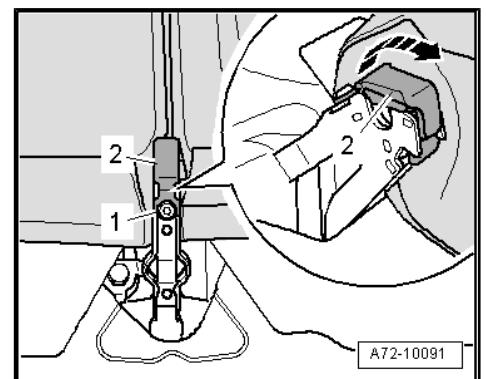
- Unscrew bolt -1- and remove locking device -2- in -direction of arrow-.
- Lift backrest out of centre mounting.
- Pull backrest towards centre of vehicle and out of outer mounting pin.

##### Installing

Install in reverse order of removal.

##### Torque settings

Component	Nm
Locking device to body	15



### 3.3 Removing and installing lower C-pillar trim, vehicle with no side airbag

#### Removing

- Unclip caps -3- from trim.
- Unscrew bolt -2-.
- Carefully pull lower C-pillar trim -1- off upper C-pillar trim -4-, off body and pull retaining clips -6- off from studs -arrows-.
- Remove lower C-pillar trim.

#### Installing

Installation is performed in reverse sequence; note the following:



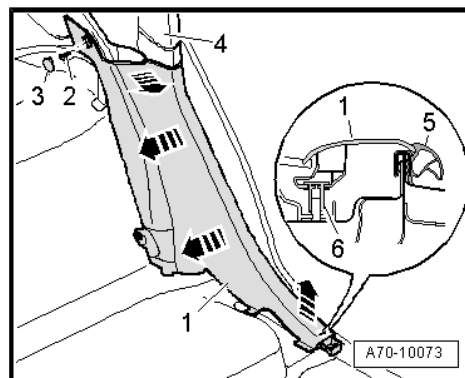
#### Note

*Renew damaged spring clips.*

- Pull rubber lip of door seal -5- over edge of lower C-pillar trim.

#### Torque settings

Component	Nm
Lower C-pillar trim to body	3,5



### 3.4 Removing and installing lower C-pillar trim, vehicle with side airbag

#### 3.4.1 Removing and installing rear side airbag

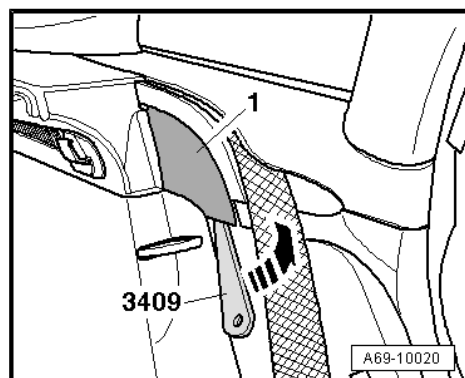
#### Removing



#### WARNING!

*Observe safety precautions for working on airbags → [page 4](#) .*

- Disconnect battery → [page 28](#) .
- Unclip cover -1- using wedge -3409- .



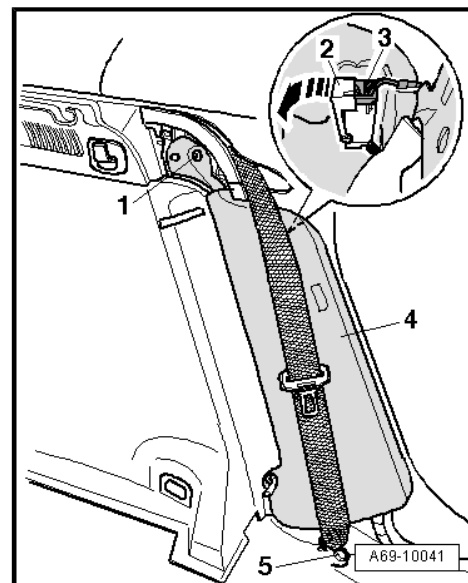
- Remove bolts -1- and -5- on rear side airbag -4-.
- Pull side airbag off body slightly.



#### WARNING!

*Before disconnecting electrical connections, the mechanic must electrostatically discharge him/herself by briefly touching e.g. the striker plate for the door lock.*

- Push safety cap -2- in -direction of arrow- and disconnect electrical connection -3- on side airbag.
- Remove rear side airbag.



#### Installing

Installation is performed in reverse sequence; note the following:

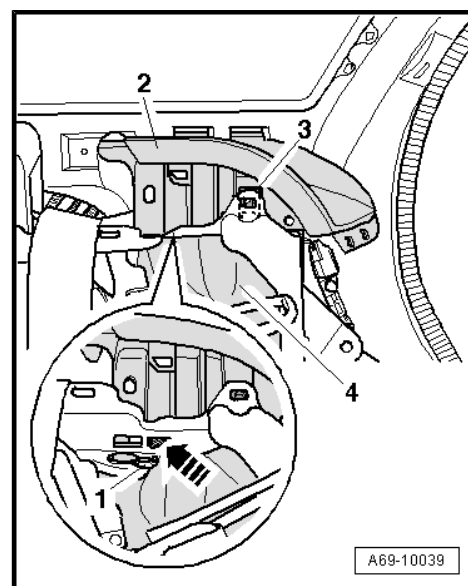
- Push foam piece -4- to side.
- Press retaining clip -arrow- and slide belt guide -2- to rear and out of retainer.



#### Note

*The bolts -1- may not be twisted. If the bolts are twisted the belt guide must be renewed.*

- Renew speed nut -3-.
- Push belt guide in until it engages audibly.



#### WARNING!

*Ensure no person is in the vehicle when reconnecting the battery.*

- Reconnect battery earth strap.
- Observe procedures required after reconnecting battery → [page 29](#).
- After installing rear side airbag, read and erase the fault memory for airbag control unit as faults are stored when the connectors are disconnected, → vehicle diagnosis, testing and information system VAS 5051.

#### Torque settings

Component		Nm
Rear side airbag to	body side panel	8 <sup>1)</sup>
	body floor	55

1) Insert with thread locking fluid -D 000 600 A2-.


**Note**

- ◆ *Threads of bolts secured with locking fluid must be cleaned with a wire brush. Then insert bolts/screws with locking fluid. Use thread locking fluid -D 000 600 A2-.*
- ◆ *Threaded holes into which self-locking bolts/screws or bolts/screws coated with locking fluid are inserted, must be cleaned (e.g. with a thread chaser). Otherwise there is a danger of bolts shearing when subsequently being removed.*

### 3.4.2 Removing and installing lower C-pillar trim

#### Removing


**WARNING!**

Observe safety precautions for working on airbags → [page 4](#).

- Carefully pull lower C-pillar trim -1- off upper C-pillar trim -2-, off body and pull retaining clip -4- off from stud -arrows-.
- Remove lower C-pillar trim.

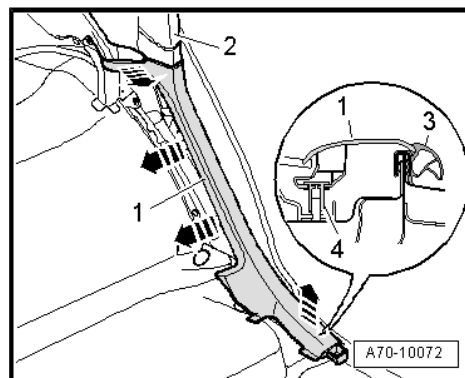
#### Installing

Installation is performed in reverse sequence; note the following:


**Note**

Renew damaged spring clips.

- Pull rubber lip of door seal -3- over edge of lower C-pillar trim.
- Install rear side airbag → [page 8](#).



### 3.5 Removing and installing rear cross panel trim

#### Removing

- Remove luggage compartment floor covering.
- Pull rear cross panel trim -1- off upwards.


**Note**

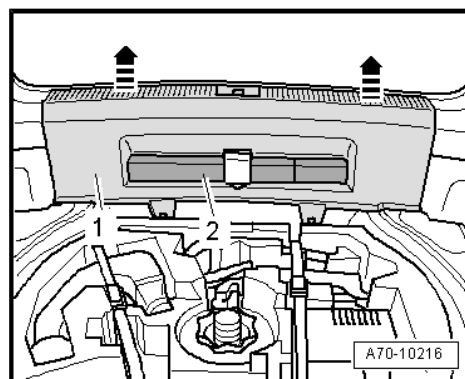
The hazard warning triangle -2- must not be removed on vehicles with front-wheel drive.

#### Installing

Installation is performed in reverse sequence; note the following:


**Note**

Renew damaged spring clips.



- Roll sealing lip of rubber seal over guide edge of rear cross panel trim.

### 3.6 Removing and installing luggage compartment side trim panel

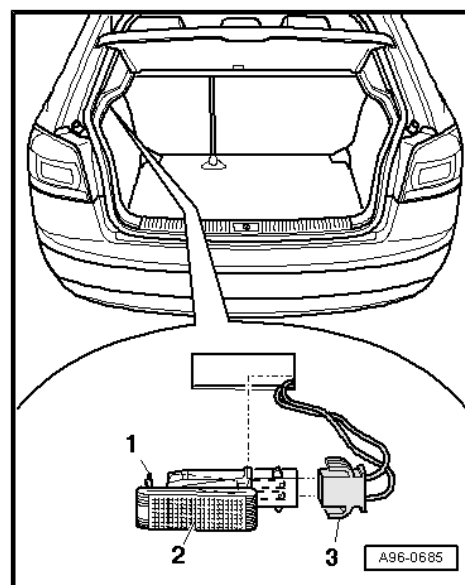
#### Removing



#### WARNING!

Observe safety precautions for working on airbags → [page 4](#).

- Use a flat-blade screwdriver to press left luggage compartment trim retaining tab -1- inwards and lever out luggage compartment light -2-.
- Separate electrical connector -3-.

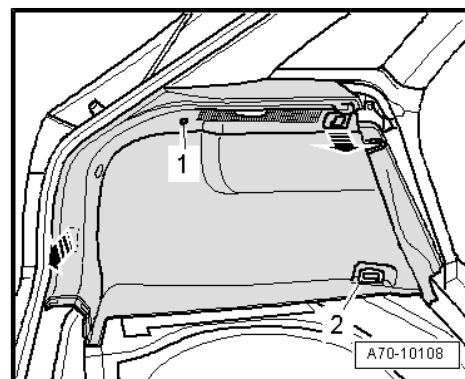


- Unscrew bolt -1-.
- Lever spring clips out of body -arrows-.
- Lift luggage compartment side trim panel upwards out of lashing eyes -2- and remove from luggage compartment.

#### Installing

Installation is performed in reverse sequence; note the following:

- Roll sealing lip of rubber seal over guide edge of luggage compartment side trim panel.



### 3.7 Removing and installing upper C-pillar and D-pillar trim

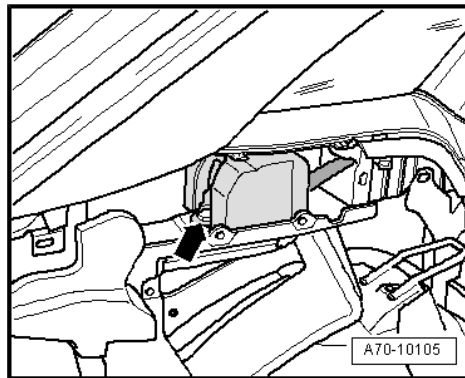
#### Removing



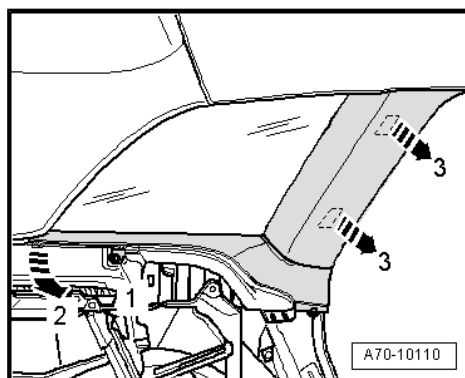
#### WARNING!

Observe safety precautions for working on airbags → [page 4](#).

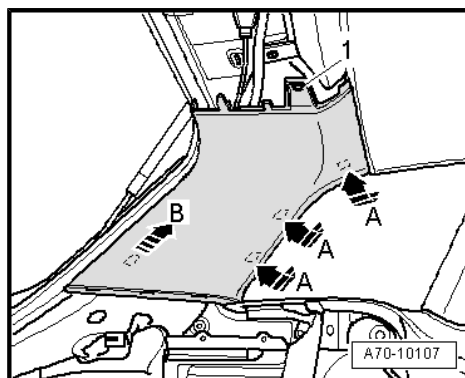
- Remove bolt -arrow-.
- Remove rear seat belt inertia reel.



- Unscrew bolt -1-.
- Unhook C-pillar trim from D-pillar trim -arrow 2-.
- Starting at the bottom, pull C-pillar trim off body -arrows 3-.
- Remove C-pillar trim downwards.



- Unscrew bolt -1-.
- Pull front edge of D-pillar trim off body -arrows A-.
- At rear corner, slide D-pillar trim upwards -arrow B-.
- Remove D-pillar trim downwards.



### Installing

Installation is performed in reverse sequence; note the following:



#### Note

- ◆ After removal of D-pillar trim, always remove remaining locking fluid from the tapped holes for the D-pillar trim. Otherwise the new bolts can seize when screwing in, and then shear off if they have to be subsequently removed.
- ◆ A thread chaser is suitable for cleaning.
- ◆ Renew self-locking bolts.
- ◆ Renew damaged spring clips.

- Install seat belt inertia reel.

### Torque settings

Component	Nm
D-pillar trim to body	3,5 <sup>2)</sup>
C-pillar trim to body	3,5 <sup>2)</sup>
Seat belt to body	55

2) Insert with thread locking fluid -D 000 600 A2- .

## 3.8 Removing and installing upper A-pillar trim

### Removing

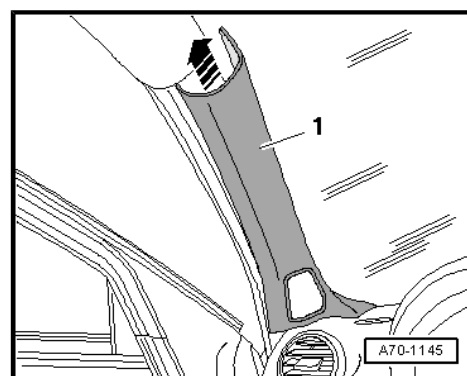
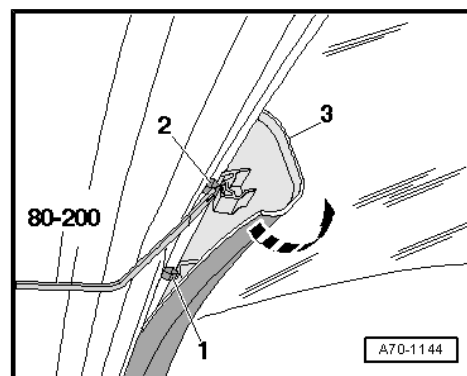


#### WARNING!

Observe safety precautions for working on airbags → [page 4](#).

- Pull A-pillar trim -item 3- as far as possible off A-pillar in area of sealing rubber by hand, until it is possible to insert the release lever -80-200- on the uppermost retaining clip -2-.
- Release retaining clips -1- and -2-, one after the other, from the A-pillar using release lever -80-200-.
- Pull A-pillar trim -item 1- upwards -arrow- and remove.

The retaining clips will be completely removed from their guides in the A-pillar.



- Disconnect electrical connector for loudspeaker.

### Installing

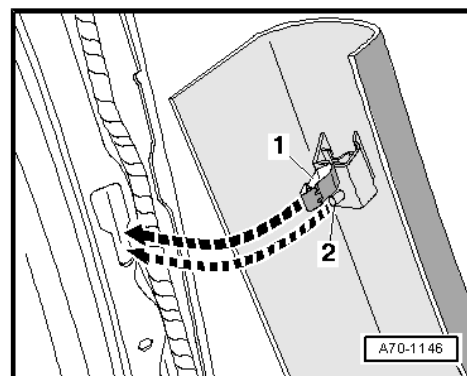
Installation is performed in reverse sequence; note the following:

- Slide A-pillar trim into guide in dash panel.
- Ensure when positioning the A-pillar trim that the guide pins -2-, under the upper retaining clip -1-, are also inserted into the groove on the A-pillar.



#### Note

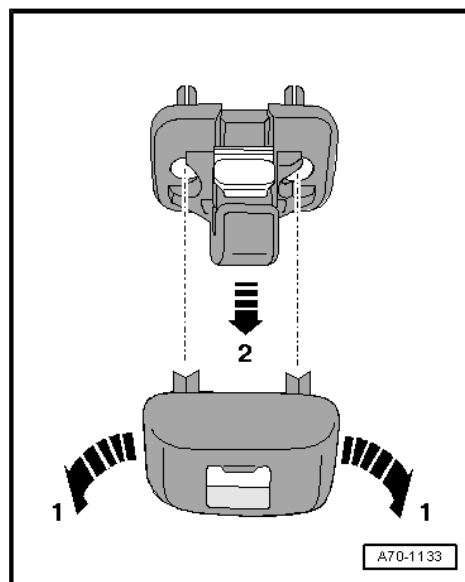
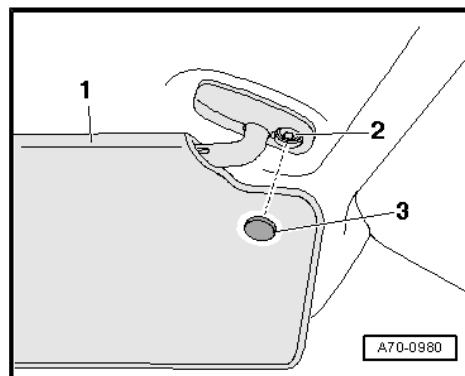
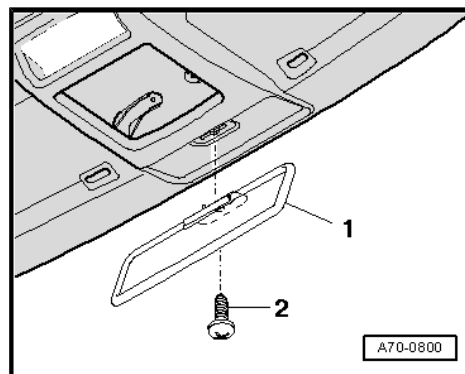
- ◆ If the guide pin is not inserted into the groove then the A-pillar trim cannot be fully pressed into position.
- ◆ After installing trim, ensure seal is seated correctly.



## 3.9 Removing and installing moulded head-lining

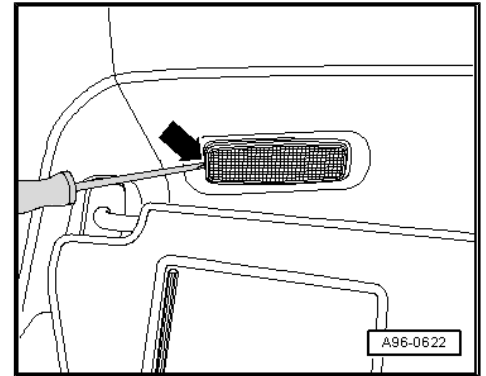
### Removing

- Remove bolt -2- and remove centre sun visor -1-.
- Detach sun visor -1- from centre sun visor mounting of vehicle.
- Lever off cap -3-.
- Unscrew bolt -2-.
- Pivot sun visor mounting downwards and remove sun visor.
- If fitted, pull off connector for illumination of vanity mirror.
- Unclip cover from sun visor centre mounting -arrows 1-.
- Pull sun visor out of centre mounting -arrows 2-.

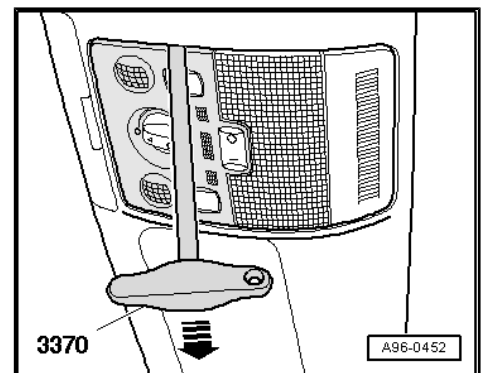




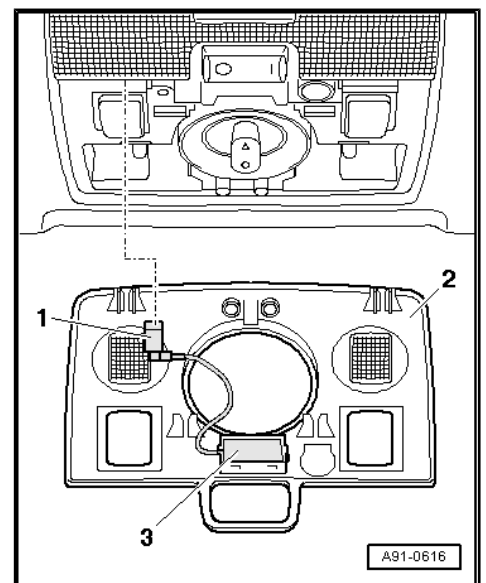
- If fitted, insert a flat-blade screwdriver into the slot provided -arrow- and carefully lever out light for vanity mirror.
- Disconnect electrical connector.



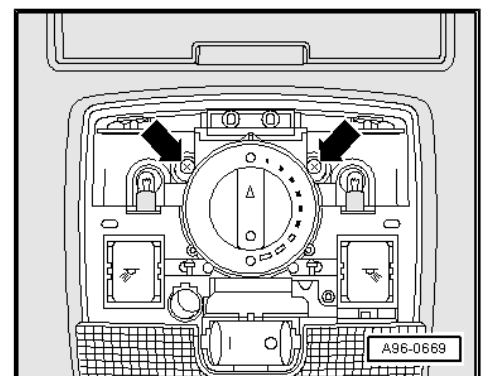
- Carefully pull off cover for reading light using front-end hook -3370-.



- If fitted, disconnect electrical connector -1- for hands-free microphone.



- Remove bolts -arrows-.
- Swing front interior light/reading light downwards and remove it from opening in moulded headliner.
- Disconnect electrical connectors.



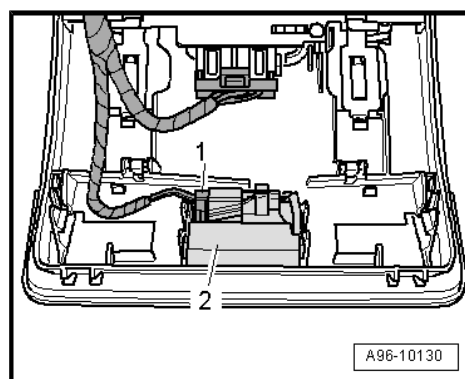
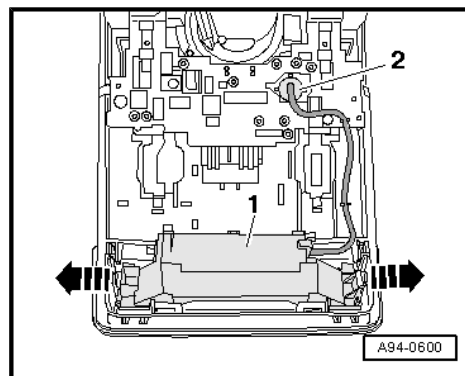
- If fitted, release retaining clips -arrows- and remove interior monitoring sensor -G273- -item 1- from front interior light/reading lights.



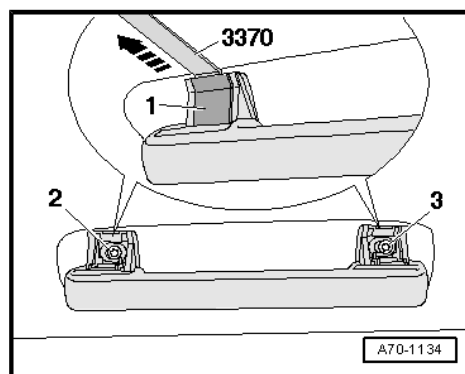
**Note**

-Item 2- can be disregarded.

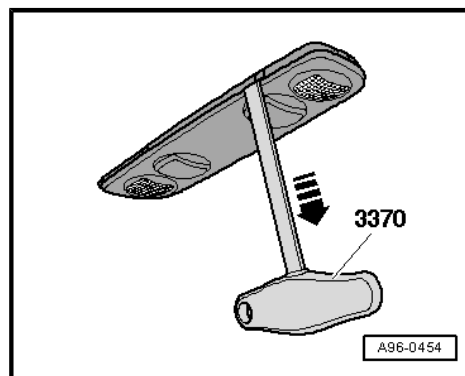
- If fitted, disconnect electrical connector -1- on interior microphone for BOSE sound system -2-.



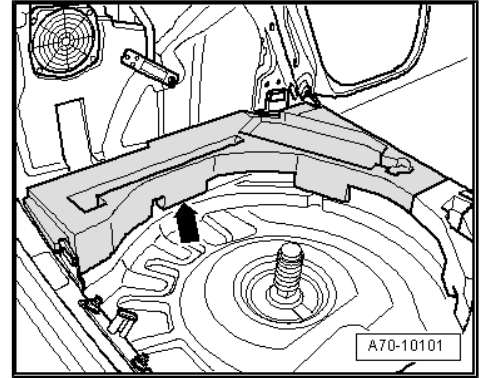
- Open caps -1- on roof grab handle using front-end hook -3370- .
- Remove bolts -2- and -3-.
- Remove roof grab handle.



- Carefully pull rear interior light/reading light out of opening in roof headliner using front-end hook -3370- .
- Disconnect electrical connector.
- Position front passenger seat as follows:
  - ◆ Move seat fully forwards.
  - ◆ Seat backrest in reclined position.



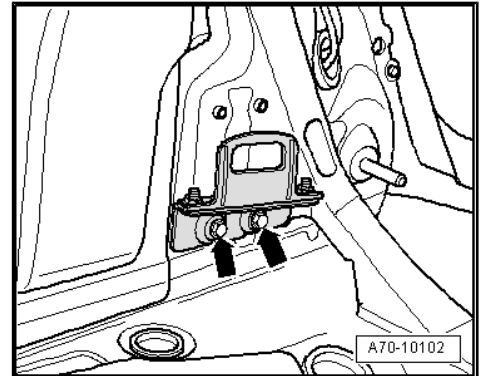
- Take out luggage compartment floor trim.
- Vehicle with four-wheel drive, remove left foam insert -arrow- in luggage compartment.



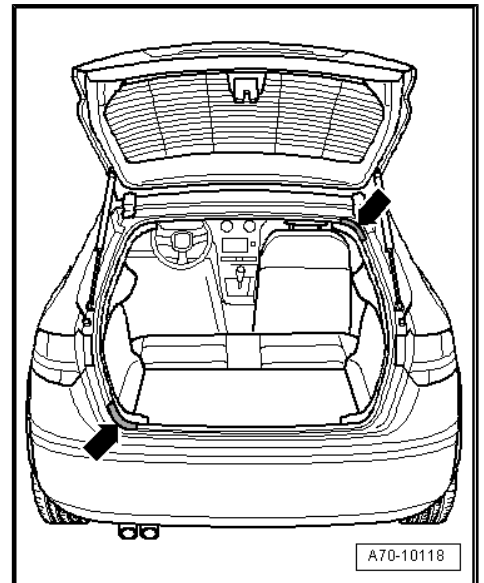
- Remove bolts -arrows-.
- Remove left lashing eye.



*Illustration shows fitting in a vehicle with four-wheel drive.*

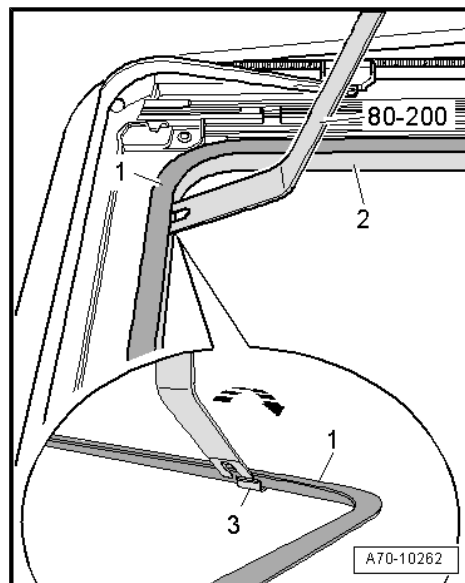


- Pull rear lid seal off body.
- Mask panel corners in areas indicated -arrows-.

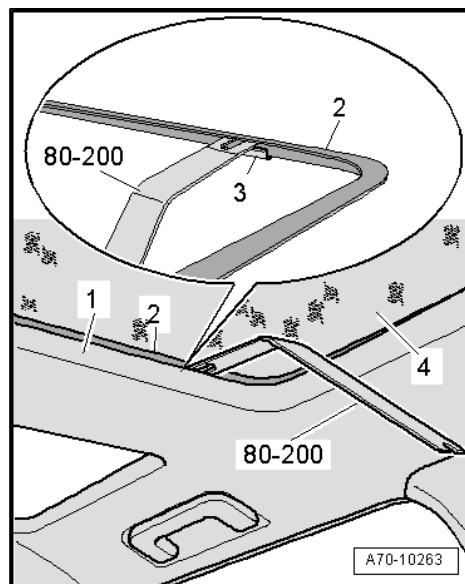


### Vehicles with sunroof:

- Clean removal lever -80-200- to prevent soiling of moulded headliner.
- Front sunroof aperture: slide removal lever -80-200- between sunroof aperture retaining frame -1- and moulded headliner -2- until one of the 15 retaining clips -3- is located.
- Release retaining clips one after the other as shown in illustration -arrows- using removal lever -80-200- .



- Rear glass roof panel aperture: close glass panel aperture blind.
- Slide removal lever -80-200- between glass panel aperture retaining frame -2- and moulded headliner -1- until one of the 15 retaining clips is located.
- Release retaining clips -3- one after the other as shown in illustration using removal lever -80-200- .

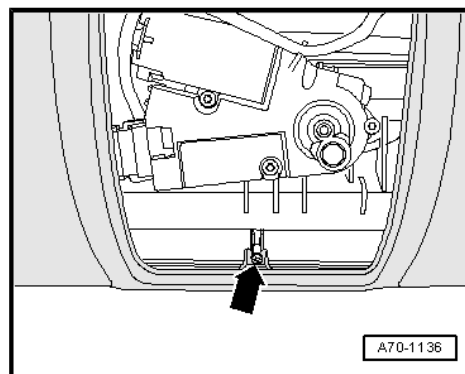


### All vehicles:

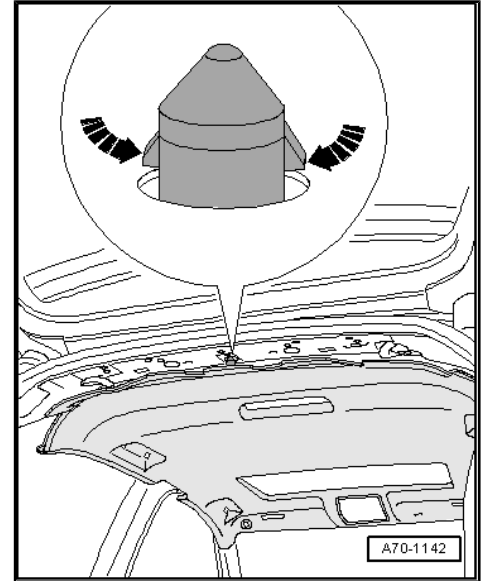


#### Note

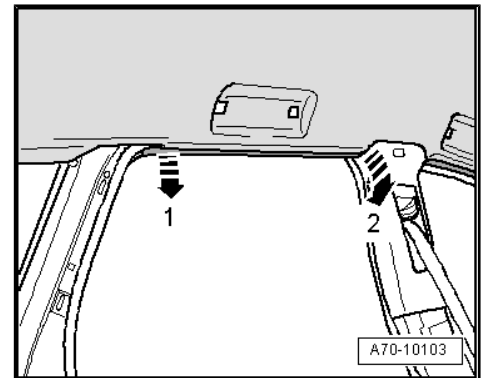
- ◆ *The moulded headliner must not be kinked/bent, a kinked/bent moulded headliner must be renewed.*
- ◆ *A second person will be required to assist in releasing the last connection and for removing the moulded headliner.*
- If fitted, remove bolt -arrow- in front interior light/reading light roof aperture.



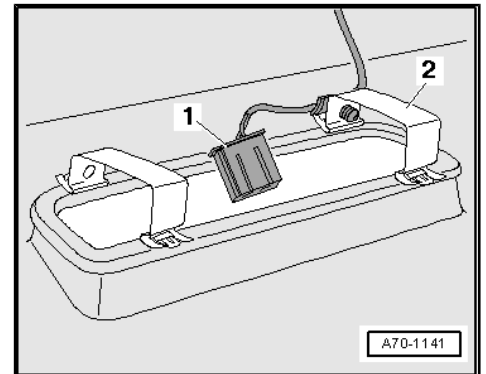
- Release locating clips on rear retaining clip -arrows-.



- Starting at C-pillar, pull moulded headliner out rubber lip of door seal -arrow 1-.
- Carefully lever moulded headliner over edge of upper B-pillar trim -arrow 2-.



- If fitted, lower moulded headliner until the retaining clip -2- for rear interior light/reading light electrical wiring -1- can be unclipped.



- Lower moulded headliner on left side of vehicle -arrow 1-.
- Take moulded headliner out through aperture for rear lid -arrow 2-.

#### Installing



#### Note

- ◆ *After removal of roof grab handle and sun visors, always remove remaining locking fluid from the tapped holes for the roof grab handle and sun visors. Otherwise the new bolts can seize when screwing in, and then shear off if they have to be subsequently removed.*
- ◆ *A thread chaser is suitable for cleaning.*
- ◆ *Renew self-locking bolts.*
- Position rear glass sunroof panel retaining frame in roof aperture.
- Position moulded headliner on right upper B-pillar trim.
- Carefully lever moulded headliner over edge of left upper B-pillar trim.
- Centralize and align moulded headliner.
- Press rear glass sunroof panel retaining frame securely onto moulded headliner.
- Press front sunroof aperture retaining frame securely onto moulded headliner.
- Pull rubber lip of door seals over edge of moulded headliner in all door apertures using wedge -3409- .

Further installation is carried out in the reverse sequence.

#### Torque settings

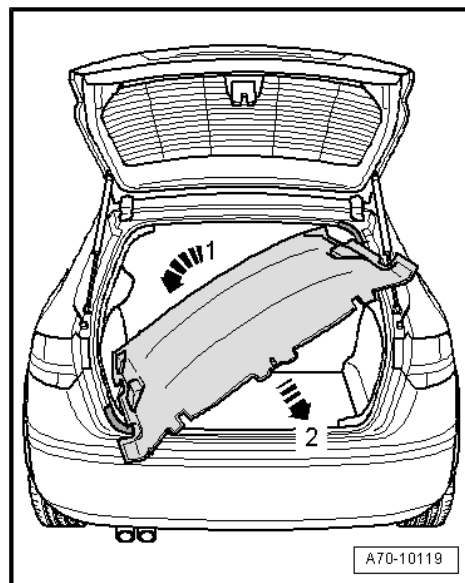
Component	Nm
Roof grab handle to body	4 <sup>3)</sup>
Centre sun visor to body	2
Sun visor to body	4 <sup>3)</sup>

3) Renew bolts

### 3.10 Removing and installing head/curtain airbag

- Remove head/curtain airbag as required.

#### Assembly overview - head/curtain airbag



**1 - Bolt, 5 Nm**

- ☐ Self-locking
- ☐ Renew
- ☐ Always clean threaded holes for bolts (e.g. with a thread chaser)

**2 - Bolt, 5 Nm**

- ☐ Self-locking
- ☐ Renew
- ☐ Always clean threaded holes for bolts (e.g. with a thread chaser)

**3 - Cap nut, 9 Nm**

**4 - Gas generator for airbag**

**5 - Securing clip**

- ☐ For airbag connector

**6 - Head/curtain airbag connector**

- ☐ After reconnecting, press securing clip in securely
- ☐ Check securely engaged

**7 - Bolt, 5 Nm**

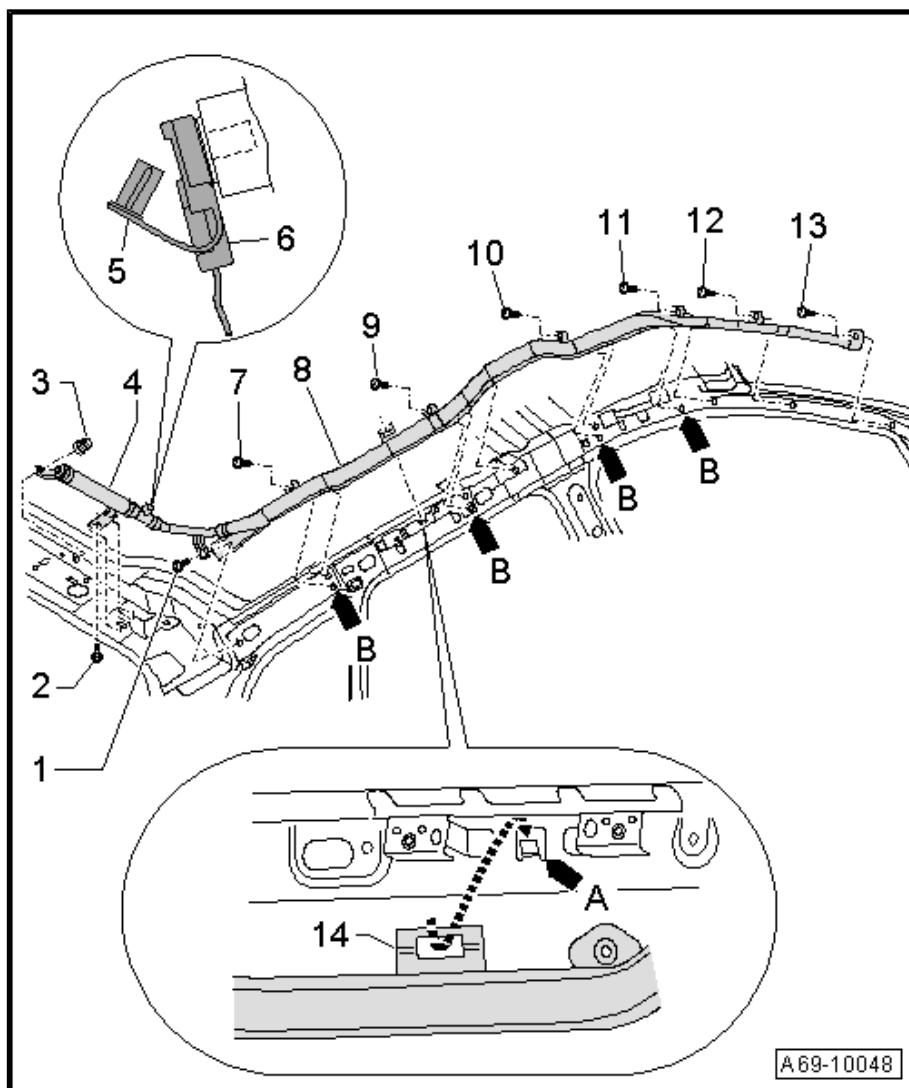
- ☐ Self-locking
- ☐ Renew
- ☐ Always clean threaded holes for bolts (e.g. with a thread chaser)

**8 - Head/curtain airbag**



**WARNING!**

Observe safety precautions for working on airbags → [page 4](#).



**Removing**

- Battery disconnected
  - Disconnect electrical connection -6-, to disconnect: open securing clip -5- with a screwdriver.



**Note**

There are different versions of electrical connector. Proceed as follows to disconnect other versions of electrical connector → [illustration "Disconnecting head/curtain airbag connector \(other versions\)"](#), [page 23](#).

- Unscrew cap nut -3- on earthing stud.
- Remove bolts -1-, -2-, -7- and -9 ... 13-.
- Detach head/curtain airbag at retaining hook -arrow-.

## Installing

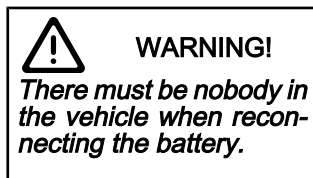


*When performing repair work, renew self-locking nuts and bolts.*

- Fit gas generator -4- on earthing stud.
- Tighten bolt -2- on gas generator hand-tight.
- Tighten cap nut.
- Hook head/curtain airbags -8- retaining tab -14- into mounting -arrow A-.
- Insert locating pins -arrows B- into body.
- Tighten bolts in following sequence -2-, -1-, -7- and -9 ... 13-.
- Ensure when reconnecting connector -6-, that it engages securely and that the securing clip -5- is inserted.



*A different version of the connector may be installed. Proceed as follows to reconnect these connectors → [illustration "Reconnecting head/curtain airbag connector \(other versions\)"](#), [page 23](#).*



- Observe procedures required after reconnecting battery → [page 29](#).

### 9 - Bolt, 5 Nm

- ☐ Self-locking
- ☐ Renew
- ☐ Always clean threaded holes for bolts (e.g. with a thread chaser)

### 10 - Bolt, 5 Nm

- ☐ Self-locking
- ☐ Renew
- ☐ Always clean threaded holes for bolts (e.g. with a thread chaser)

### 11 - Bolt, 5 Nm

- ☐ Self-locking
- ☐ Renew
- ☐ Always clean threaded holes for bolts (e.g. with a thread chaser)

### 12 - Bolt, 5 Nm

- ☐ Self-locking
- ☐ Renew
- ☐ Always clean threaded holes for bolts (e.g. with a thread chaser)



### 13 - Bolt, 5 Nm

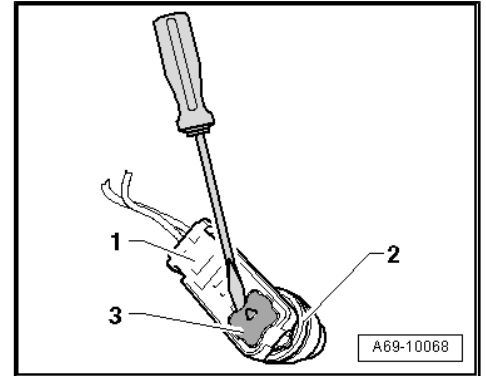
- ☐ Self-locking
- ☐ Renew
- ☐ Always clean threaded holes for bolts (e.g. with a thread chaser)

### 14 - Retaining tab

- ☐ For head/curtain airbag

#### Disconnecting head/curtain airbag connector (other versions)

- ◆ Pulling off
  - Release connector locking device -3- using a small screwdriver.
  - Pull connector -1- off igniter capsule -2-.

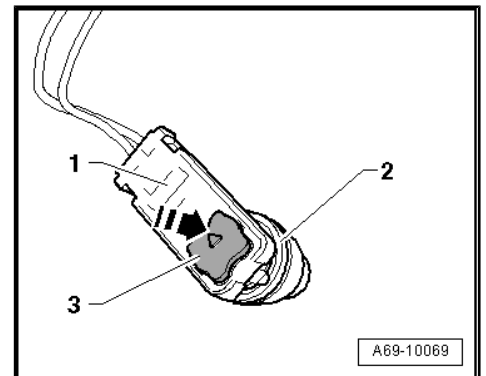


#### Reconnecting head/curtain airbag connector (other versions)

- ◆ Reconnecting:
  - Reconnect connector -1- to igniter capsule -2-.
  - Press connector locking device -3- in -direction of arrow- into connector -1-.

When doing this, the connector is pushed into the igniter capsule onto the stop and simultaneously locked.

Ensure when reconnecting connector, that it engages securely and that the connection is in order.



## 4 Assembling roof railing

- Position drilling template on roof of vehicle.
- Mask areas to be drilled with adhesive tape.
- Position step of drilling template so that it aligns with fold on edge of roof -arrow A-.
- Position drilling template so that it aligns with front edge of roof -arrow B- and secure template with adhesive tape.

- 1 - Roof
- 2 - Drilling template
- 3 - Windscreen

- Transfer drilling points to roof using pencil/pen supplied.
- Centre punch points to be drilled and drill out to 13 mm in several stages. Whilst drilling, extract/collect drilling swarf using a workshop vacuum cleaner.
- Pull off adhesive tape and thoroughly deburr holes on inside and outside.



### Note

*The inner compensating elements must lie flush on the skin of the roof to ensure the roof railing fits correctly.*

- Thoroughly remove all drilling swarf and metal filings using, for example a workshop vacuum cleaner.



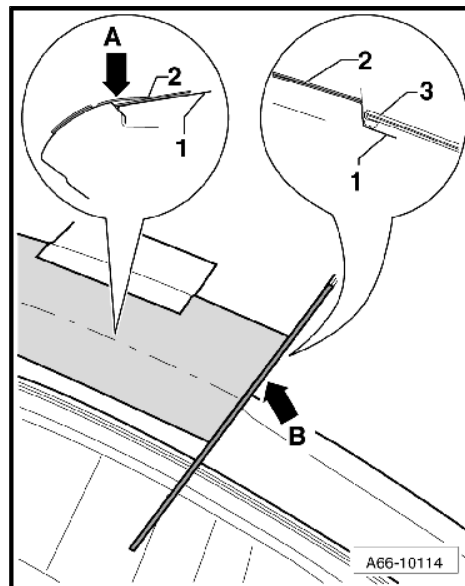
### Note

*Corrosion damage from drilling swarf is NOT covered by the vehicle guarantee.*

- To provide corrosion protection apply following materials using a paint brush.

- ◆ 1K base filler LGF 008 001 A2/A3
- ◆ 2K grey Vario filler LGF 786 004 A3
- ◆ Audi paint in colour of vehicle
- ◆ Cavity protection D 330 KD2 A1

### Assembly overview - roof railing



1 - Roof railing

2 - Adjusting element

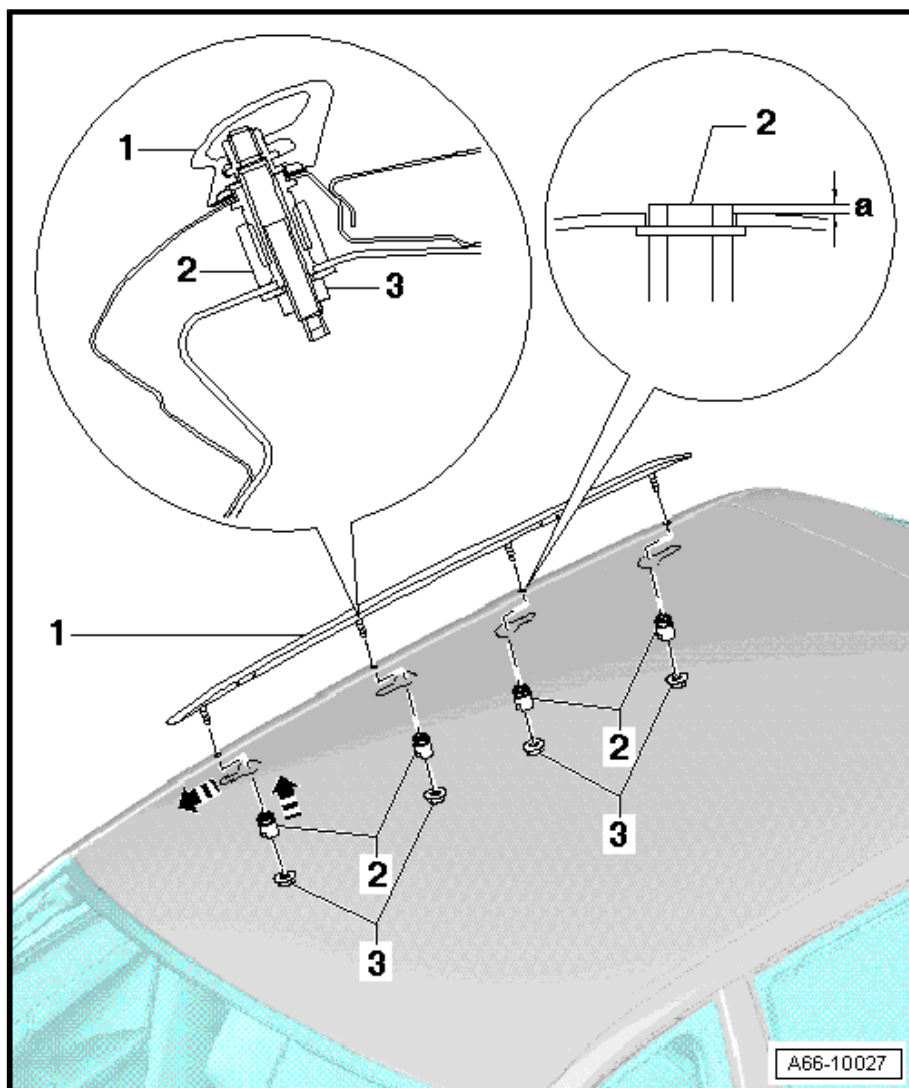


**Caution!**

*Ensure when inserting into the roof, that the adjusting elements do not fall into the body.*

3 - Hexagon nut

□ 10 Nm



- Fit adjusting element onto pin supplied.
- From interior, guide adjusting element through key hole and into roof frame.
- Slide adjusting element into installation position and bring to final position with a light pre-tension (0.2 Nm).

The projection of the compensating elements -arrow- must be 1.7 - 1.9 mm -a-.

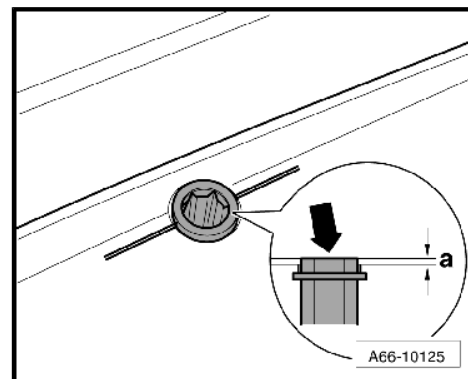
- Install the remaining compensating elements in the same manner.



**Note**

*Compensating element must project 1.9 mm -0.2 mm.*

- Position railing on roof and slide studs through adjustment elements.
- Fit hexagon nuts onto studs and tighten them to 10 Nm.





**Note**

*Due to the length of the studs a long socket is required.*

## 5 Service schedule entry

- Enter respective revisions to equipment in Service schedule in section Dealership entries.

### Chrome roof railing

- ◆ Roof railing retrofitted, PR. No. 3S1

### Black roof railing

- ◆ Roof railing retrofitted, PR. No. 3S2

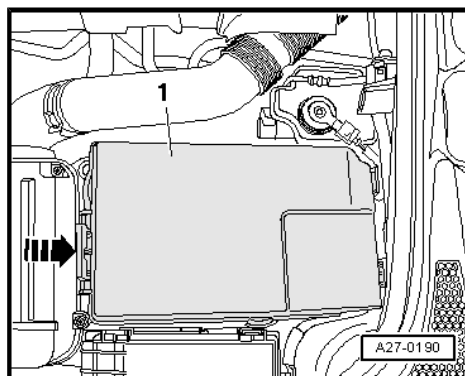
## 6 Disconnecting and reconnecting battery

### 6.1 Disconnecting battery

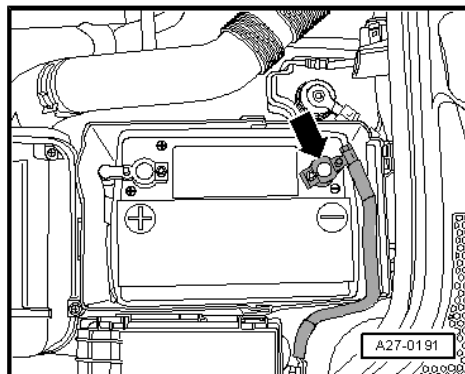
- On vehicles fitted with telematics system: before disconnecting battery, activate telematics control unit service mode in Guided Fault Finding on → vehicle diagnosis, testing and information system VAS 5051.
- Switch off ignition and remove key.

#### Vehicles with 4-cylinder engine:

- Remove cover -1- over battery. Press release tab -arrow- for this.

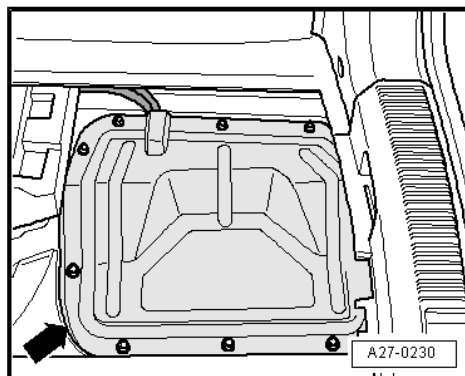


- Disconnect earth cable -arrow- at battery.

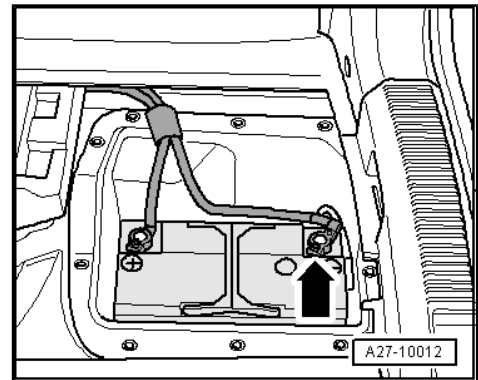


#### Vehicles with 6-cylinder engine:

- Removed moulded insert for tools under luggage compartment floor cover.
- Unscrew cover -arrow- for battery compartment.
- Remove moulded cover over battery.



- Disconnect earth cable -arrow- at battery.



## 6.2 Reconnecting battery

- When reconnecting: attach pole shoe of earth wire by hand on battery negative terminal - and tighten nut.

When reconnecting the battery, the following operations must be performed:

- ◆ Activate automatic opening and closing of electric windows → Owner's Manual .
- ◆ Synchronise second and additional keys to ensure the remote control functions correctly. Use a key to mechanically unlock the driver's door lock. Press unlock button on the remote control key. Insert key in ignition lock and switch ignition on and off again. Remove key and press lock or unlock button.
- ◆ Before starting engine for first time, leave ignition in position ignition on for 5 seconds.

### Note

*After reconnecting the voltage supply the ESP warning light will only go out after travelling several metres.*

Component	Nm
Battery cable clamp to battery terminal	6
Cover for battery compartment to body <sup>4)</sup>	8

4) For vehicles with battery in luggage compartment.