

## 84 10 332 Removing and installing the telematics control unit below the headlining (for equipment specification with panorama glass roof)



### RISK OF DAMAGE

#### Scratches.

Tools and sharp-edged components can cause scratches.

- Protect working area.
- Handle tools and components carefully.

### PRELIMINARY WORK

#### 1 – Disconnecting all battery earth leads



- See additional information.

#### 2 – Remove the door sill cover strip on the rear left and right

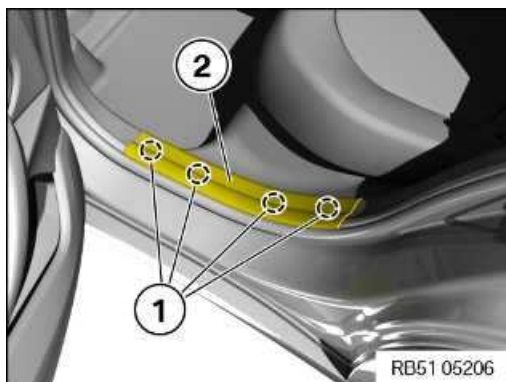


### NOTICE

Description is for left component only. Procedure on the right side is identical.

#### ► Remove rear entrance cover strip

- Unclip the clips (1) of the door sill cover strip (2).
- Remove the door sill cover strip (2).



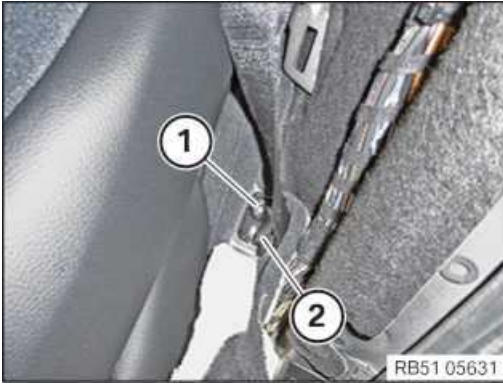
#### 3 – Removing the bottom left and right C-pillar trim panels



### NOTICE

Description is for left component only. Procedure on the right side is identical.

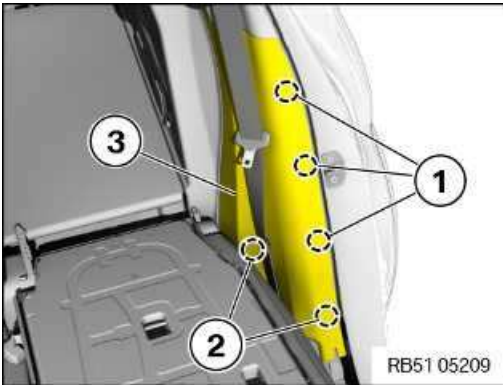
#### ► Remove the bottom C-pillar trim panel



- Fold up the carpet as shown.
- Loosen screw (1).
- Remove end fitting (2).

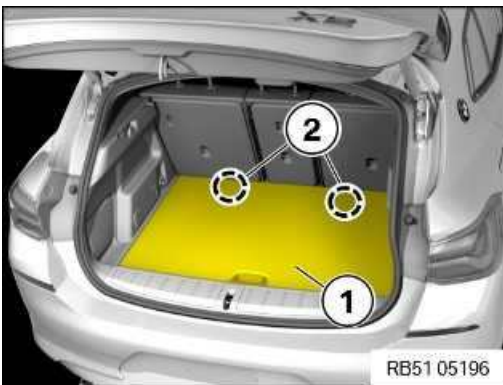


- Release the edge protection (1) in area of the bottom C-pillar trim panel.



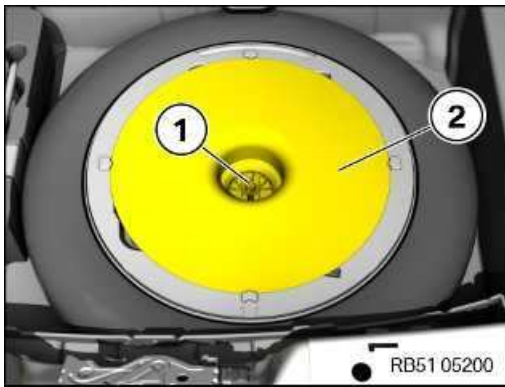
- Clip in the C-pillar trim panel (3) on the bottom with the clamps (1) and the clips (2).
- Detach end fitting and remove the bottom C-pillar trim panel (3).

#### 4 – Removing the luggage compartment removable panel

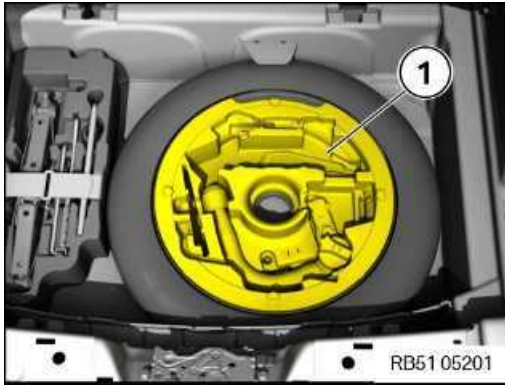


- Raise the luggage compartment removable panel (1) slightly at the handle, detach it from the latch mechanisms (2) and remove it toward the back.

#### 5 – Removing the compact spare wheel



- Loosen screw (1).
- Remove the cover (2).

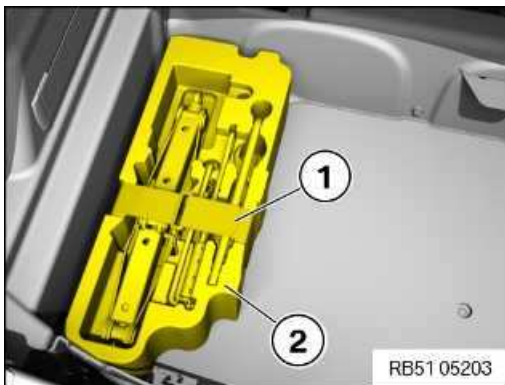


- Remove the oddments tray from the emergency wheel (1).



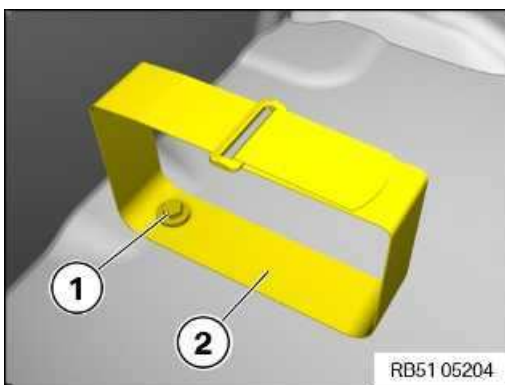
- Remove the emergency wheel (1).

## 6 – Remove the tool kit



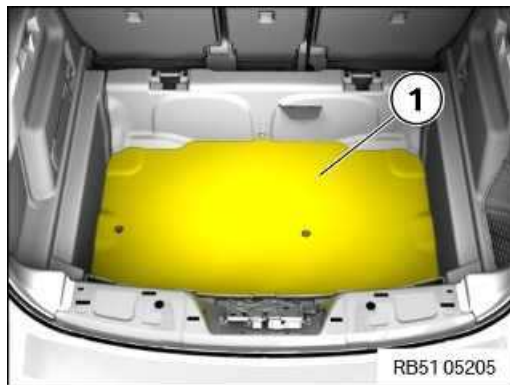
- Open the hook and loop tape (1).
- Remove the tool kit (2).

## 7 – Remove the hook and loop tape for the tool kit



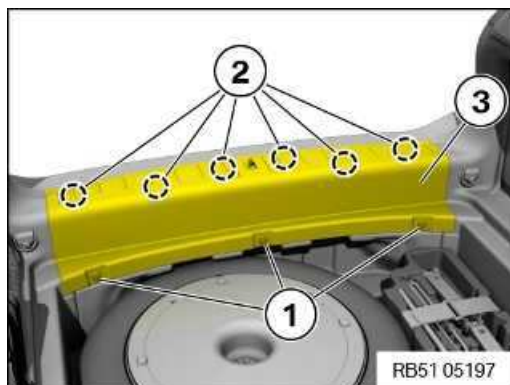
- Loosen screw (1).
- Remove the hook and loop tape (2).

## 8 – Removing the luggage compartment floor trim panel



- Remove the luggage compartment floor trim panel (1) upwards.

## 9 – Removing the loading edge trim

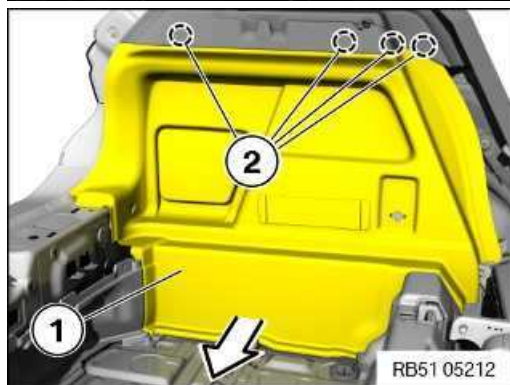


- Loosen the expanding rivet (1).
- Unclip the loading edge trim (3) from the clamps (2) toward the top and remove.

## 10 – Remove luggage compartment wheel arch trim panel on left.



- Unclip covers (1).
- Unscrew the bolts (2) and remove the lashing points (3).

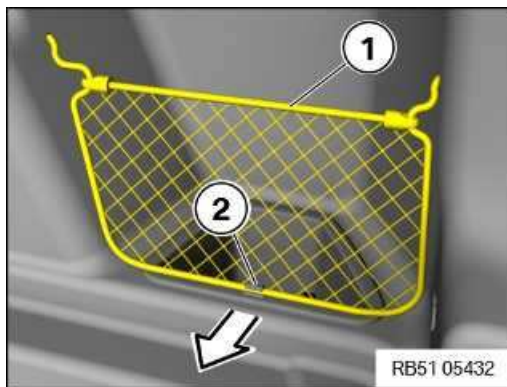


### NOTICE

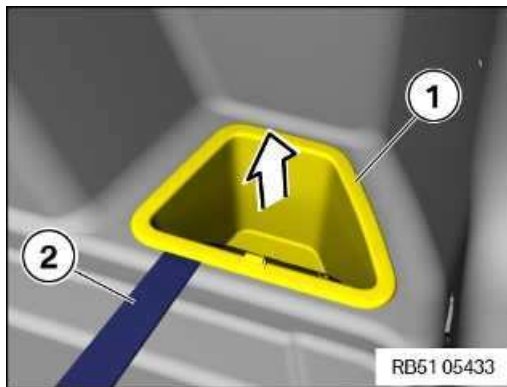
Schematic diagram is for example purposes. Some parts may differ in certain details.

- Pull the luggage compartment wheel arch trim panel (1) on the bottom in the direction of the arrow and guide it out of the guides (2) and the C-pillar trim panel and remove.

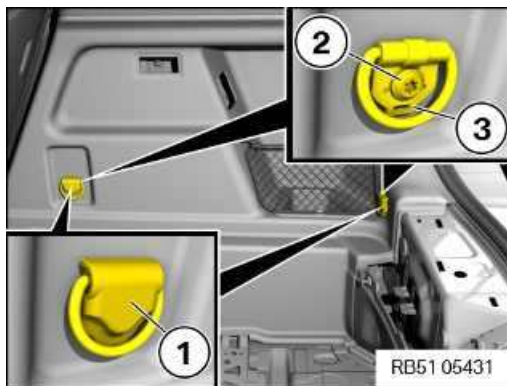
## 11 – Removing right luggage compartment wheel arch trim panel



- Release the storage net (1) from the latch mechanism (2) in the direction of arrow and fold up.



- Remove storage compartment (1) out of the luggage compartment wheel arch trim panel in the direction of arrow using a suitable tool (2).



- Unclip covers (1).
- Unscrew the bolts (2) and remove the lashing points (3).



**NOTICE**

Schematic diagram is for example purposes. Some parts may differ in certain details.

- Pull the luggage compartment wheel arch trim panel (1) on the bottom in the direction of the arrow and guide it out of the guides (2) and the C-pillar trim panel and remove.

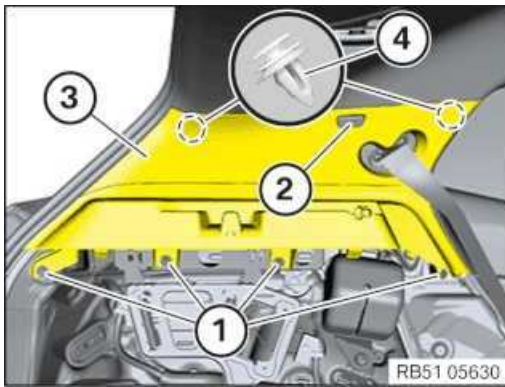
## 12 – Remove the trim panel of the luggage compartment capping on the left and right



### NOTICE

Description is for left component only. Procedure on the right side is identical.

- Remove the trim panel of the luggage compartment capping



- Loosen screws (1).
- Remove the cover (2) with a suitable plastic wedge and unscrew the screw below it.
- Detach the trim panel of the luggage compartment capping (3) from the clips (4).
- Feed out the end fitting and remove the trim panel of the luggage compartment capping (3).

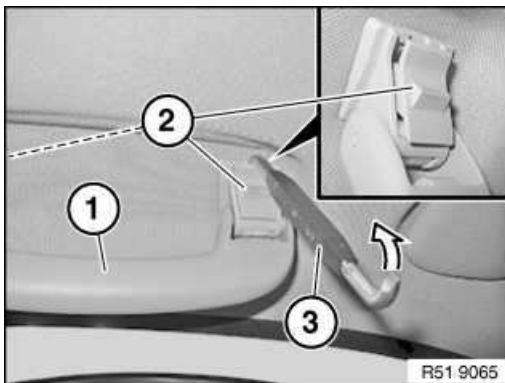
### 13 – Removing all grab handles



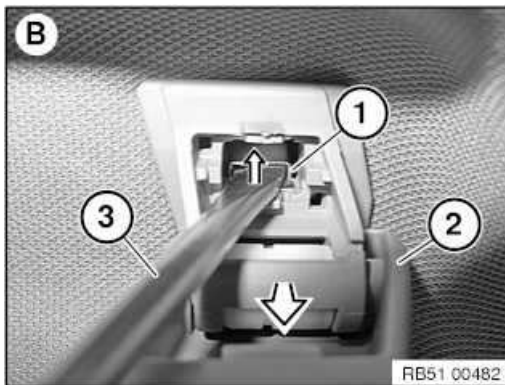
#### NOTICE

The description is for one component only. The procedure is identical for all further components.

#### ► Removing the grab handle

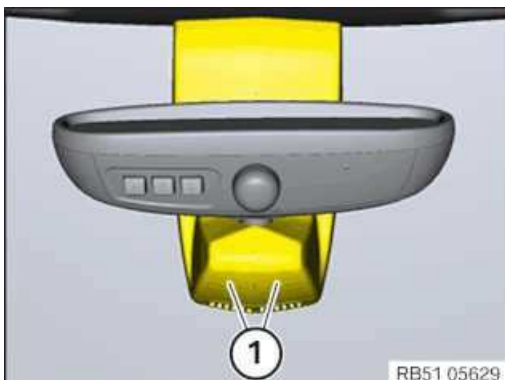


- Expand the grab handle (1) towards the bottom.
- Disengage and remove the locking insert (2) with an angle screwdriver (3) as shown.



- Pull the grab handle (2) slightly to the inside and hold it.
- Use a suitable screwdriver (3) to detach the upper and lower release tabs (1).
- Guide the grab handle (2) out.
- Repeat the operation on the other side of the grab handle (2).

### 14 – Remove the cover on the inside mirror



- Unclip the covers on the interior mirror (1) outward with a suitable plastic wedge in the center and remove.

### 15 – Remove both sun visors



## NOTICE

Description is for left component only. Procedure on the right side is identical.

### ► Remove sun visor



- Pull out the cover (1).
- Detach the sun visor (2) from the counter support .
- Disengage the sun visor (2) in front to the bottom and thread it out of the headlining at the rear.
- Unlock associated plug connection and disconnect.

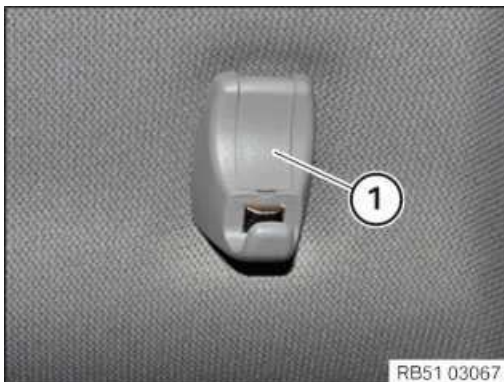
## 16 – Removing counter supports for sun visor on left and right



## NOTICE

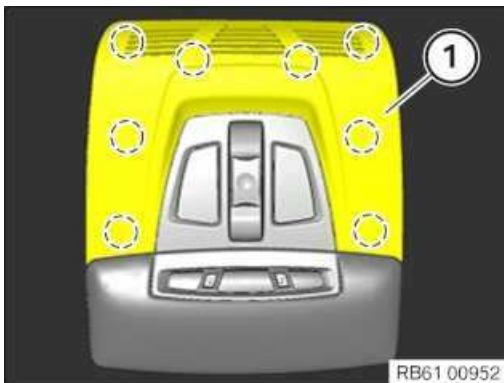
Description is for left component only. Procedure on the right side is identical.

### ► Remove the counter support for the sun visor

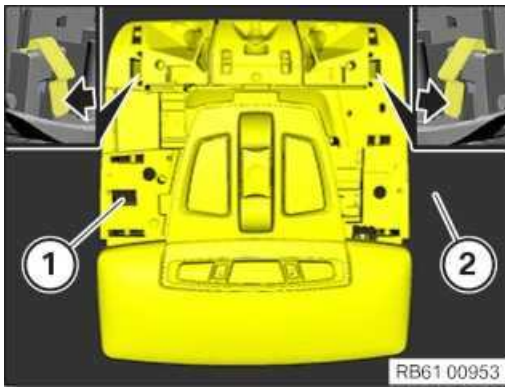


- Open the cover (1) and release the screw underneath.
- Remove the counter support downward.

## 17 – Remove the roof function centre



- Carefully unclip and remove the trim (1) with the special tool **0 496 569 (00 9 325)**.



- Unlock the left/right retaining lugs using a screwdriver in direction of the arrow.
- Remove the roof function centre (1) from the headlining (2).
- Unlock and disconnect associated connector.

## 18 – Removing the left and right A-pillar trim panels



### NOTICE

Description is for left component only. Procedure on the right side is identical.

### ► Remove the A-pillar trim panel



### WARNING

#### Airbag unit.

#### **Danger! Life-threatening injuries!**

- Before performing any work on the airbag, always disconnect the battery earth lead from the battery.
- Airbag unit may only be set down with the cushion (airbag itself) facing upwards.
- For additional information see: 72 00 ... Safety regulations on handling airbag system components/gas generators



### WARNING

#### Pyrotechnic components.

#### **Danger! Life-threatening injuries!**

- All work on pyrotechnic parts may be carried out by technically experienced and appropriately trained personnel only.
- Replace any damaged part or ones that have been dropped.
- For additional information see: 72 00 Safety regulations on handling components with gas generators.



- Unclip cover (1) and unscrew the screw below it.
- Release the A-pillar trim panel (2) from the clips (3) and guide out upwards.

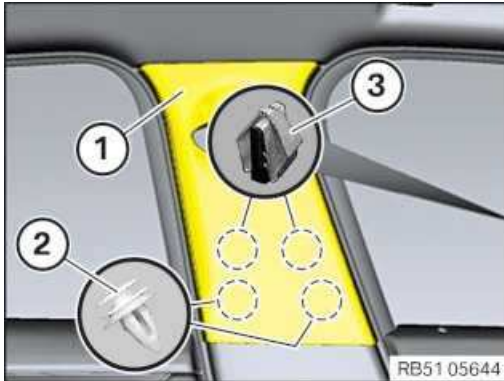
## 19 – Removing the B-pillar trim panels at top left and right



## NOTICE

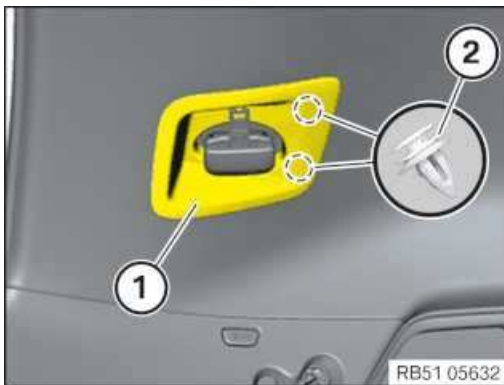
Description is for left component only. Procedure on the right side is identical.

### ► Partially removing upper B-pillar trim panel



- Carefully release the B-pillar trim panel (1) from the clips (2) and the clamps (3) with the special tool **0 496 569 (00 9 325)** and guide it out of the headlining in a downwards direction.

### 20 – Remove the belt feed trim



- Unclip the belt feed trim (1) at the clips (2) and slide it forward and out of the headliner.
- Slide out the seat belt and remove the belt feed trim (1).

### 21 – Lowering the headlining (with panorama glass roof)

#### Prerequisite

The front seats have been fully adjusted towards the bottom.

The front seat backrests have been fully adjusted towards the rear.

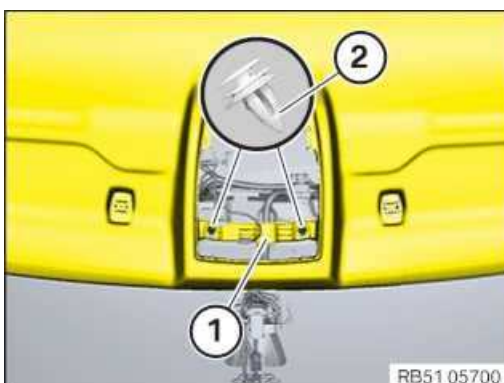


## RISK OF DAMAGE

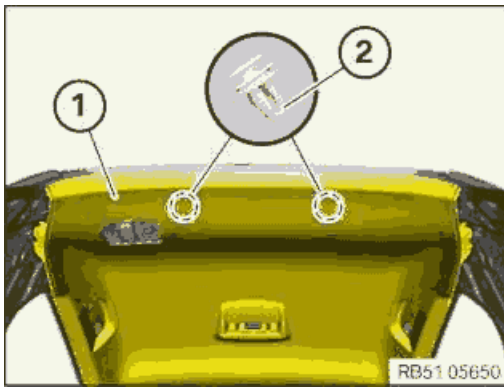
**Fold the headlining.**

**If the headlining is folded, it may have to be replaced.**

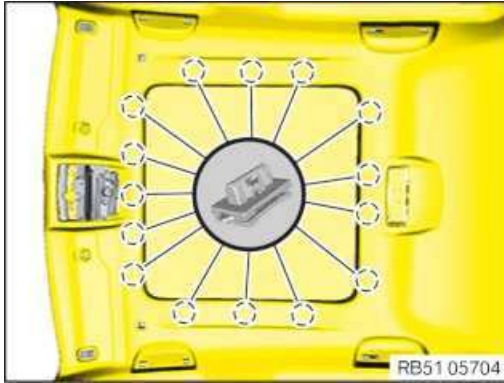
- Carry out tasks with a second person to assist.
- Support the headlining at the front and back.



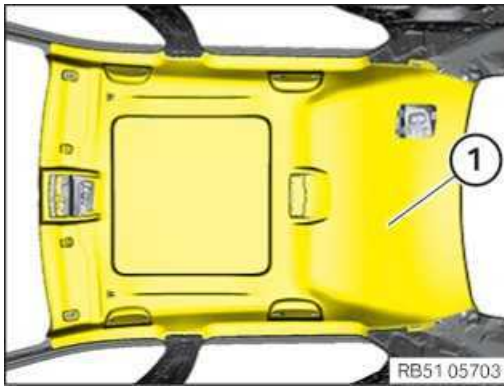
- Loosen the frame (1) at the clips (2).
- If necessary, loosen the cable clip from the frame (1).



- Carefully release the headlining (1) at the clips (2).



- Carefully release the headlining with a suitable plastic wedge from the clamps (1) in a downwards direction.



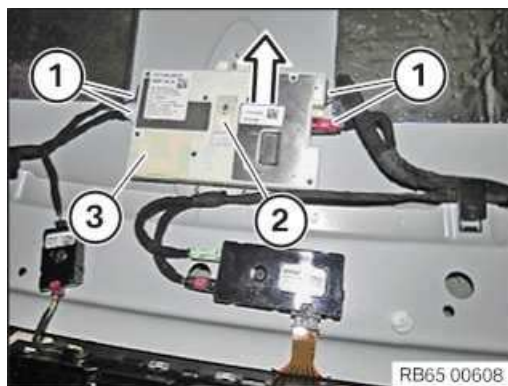
- Carefully guide out the headlining (1) at the respective edge protection and place it onto the seats in the vehicle.

### 22 – Removing the telematics control unit



#### NOTICE

Schematic diagram is for example purposes. Some parts may differ in certain details.



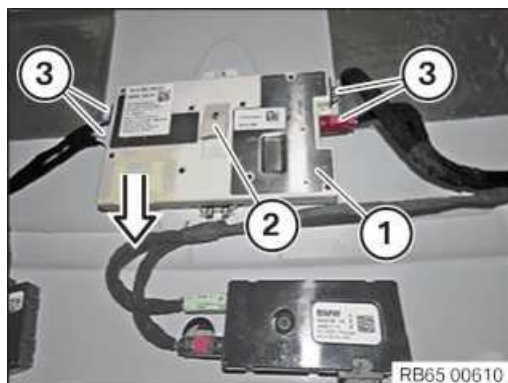
- Unlock and disconnect connector (1).
- Unlock the lock (2) downward.
- Slide the telematics control unit (3) in the direction of the arrow and remove.

### 23 – Installing the telematics control unit



#### NOTICE

Schematic diagram is for example purposes. Some parts may differ in certain details.



- Correctly position the telematics control unit (1) and push it in the direction of the arrow until the lock (2) engages.
- Position and connect the connectors (3).

## POSTPROCESSES

### 24 – Install the headlining (lowered with panorama roof)

#### Prerequisite

The front seats have been fully adjusted towards the bottom.

The front seat backrests have been fully adjusted towards the rear.



## RISK OF DAMAGE

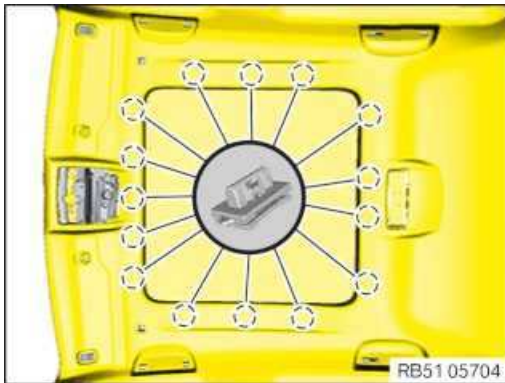
**Fold the headlining.**

**If the headlining is folded, it may have to be replaced.**

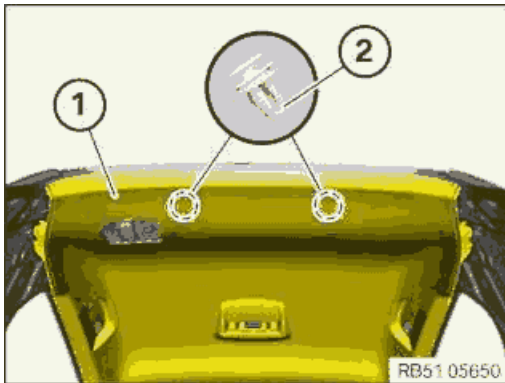
- Carry out tasks with a second person to assist.
- Support the headlining at the front and back.



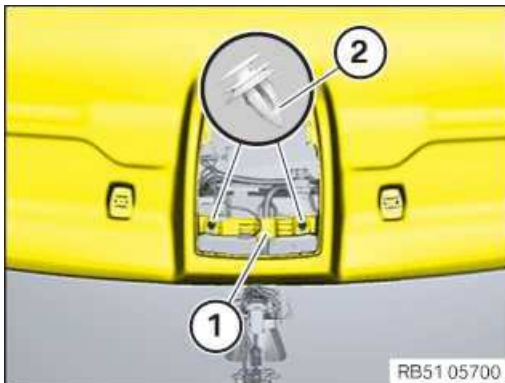
- Install the headlining (1) and carefully insert it at the respective edge protection.



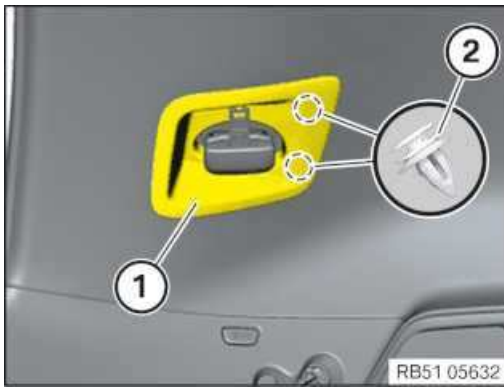
- Carefully engage the headlining on the clamps (1).



- Clip in the headlining (1) using the clips (2).



- Clip in the frame (1) with the clips (2).
- If necessary, attach the cable clip onto the frame (1).



- Feed in the seat belt on the belt feed trim (1).
- Feed in the belt feed trim (1) toward the rear on the headliner and clip in at the clips (2).

## 26 – Installing the top left and right B-pillar trim panels



### NOTICE

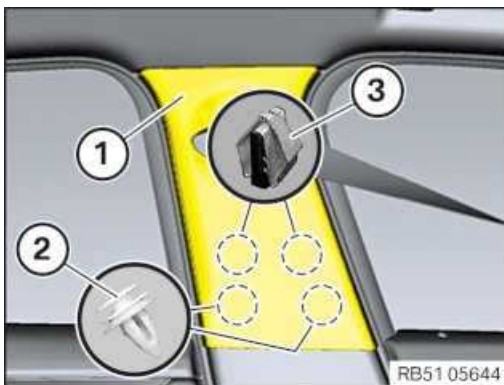
Description is for left component only. Procedure on the right side is identical.

### ► Partially installing upper B-pillar trim panel



### TECHNICAL INFORMATION

Latch mechanisms, guides and mounting elements must not be damaged or missing.



- Insert the B-pillar trim panel (1) into the headlining and lock it at the clips (2) and the clamps (3).
- Make sure that the B-pillar trim panel (1) is correctly positioned at the respective edge protection.

## 27 – Installing the left and right A-pillar trim panels



### NOTICE

Description is for left component only. Procedure on the right side is identical.

### ► Install the A-pillar trim panel



### WARNING

**Airbag unit.**

#### **Danger! Life-threatening injuries!**

- Before performing any work on the airbag, always disconnect the battery earth lead from the battery.
- Airbag unit may only be set down with the cushion (airbag itself) facing upwards.
- For additional information see: 72 00 ... Safety regulations on handling airbag system components/gas generators



## WARNING

### Pyrotechnic components.

#### Danger! Life-threatening injuries!

- All work on pyrotechnic parts may be carried out by technically experienced and appropriately trained personnel only.
- Replace any damaged part or ones that have been dropped.
- For additional information see: 72 00 Safety regulations on handling components with gas generators.



## TECHNICAL INFORMATION

Latch mechanisms, guides and mounting elements must not be damaged or missing.



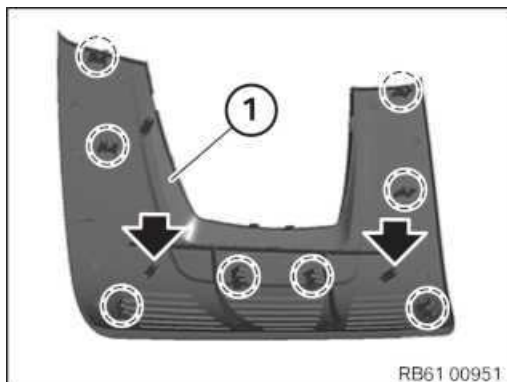
- Thread in the A-pillar trim panel (2) and clip it in at the clips (3).
  - Renew screw.
- Parts:** Screw
- Tighten down screw.

#### A-pillar trim panel to body

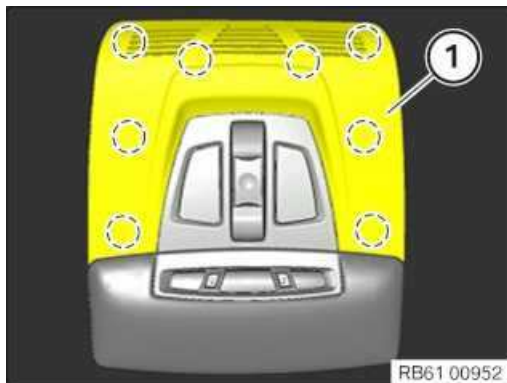
| M5x42 screw | Renew screw | Tightening torque | 2,2 Nm |
|-------------|-------------|-------------------|--------|
|-------------|-------------|-------------------|--------|

- Clip in the cover (1).

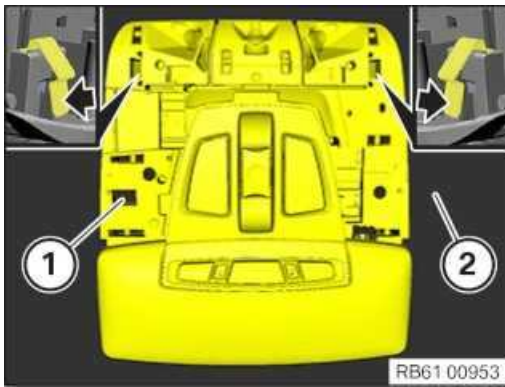
### 28 – Install the roof function centre



- The retaining lugs and guides on the trim (1) must not be damaged or missing.



- Carefully engage the trim (1) in the roof function centre.



#### NOTICE

To provide a better overview: Schematic diagram with partially hidden components.

- Connect associated connector.
- Join the roof function centre (1) to the headlining (2).

### 29 – Install the counter supports for the sun visor on left and right



#### NOTICE

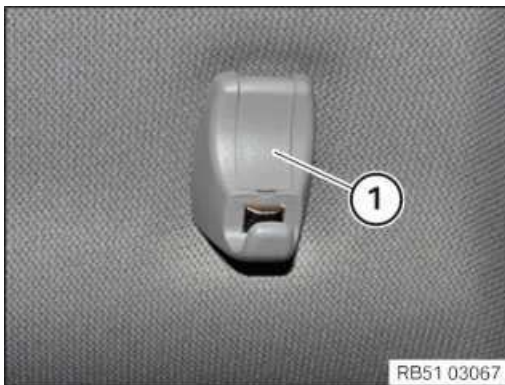
Description is for left component only. Procedure on the right side is identical.

#### ► Install the counter support for the sun visor

- Install the counter support.
- Tighten screw and close the cover (1).

#### Counter support on body

| Screw |  | Tightening torque | 2,5 Nm |
|-------|--|-------------------|--------|
|-------|--|-------------------|--------|



### 30 – Install both sun visors



#### NOTICE

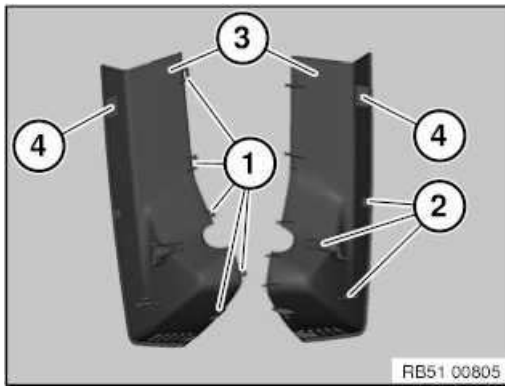
Description is for left component only. Procedure on the right side is identical.

#### ► Install the sun visor

- Connect the sun visor (2) with the corresponding connector.
- Guide the sun visor (2) into the headlining.
- Use cover (1).
- Attach the sun visor (2) on the counter support.



### 31 – Install the cover on the inside mirror

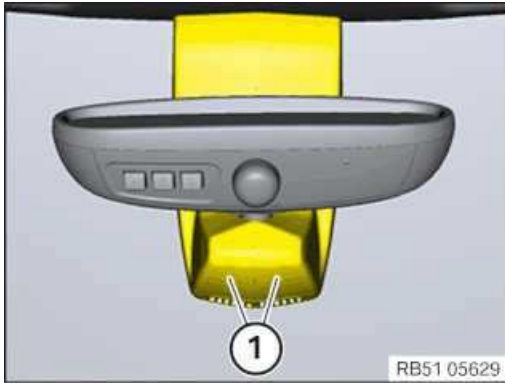


- Check the latch mechanisms (1) and guides (2) on the two covers (3) for damage, renew if necessary.

The latch mechanisms (1) and guides (2) must not be damaged.

- Check the spacers (4).

The spacers (4) must not be damaged or missing.



- Install covers on the interior mirror (1) clip together.

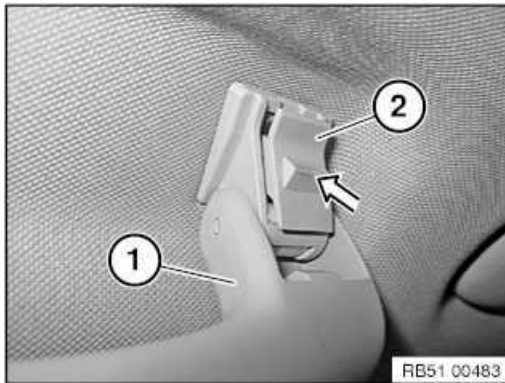
### 32 – Installing all grab handles



#### NOTICE

The description is for one component only. The procedure is identical for all further components.

#### ► Installing the grab handle



- Insert the grab handle (1) into body.
- Correctly clamp in the grab handle (1), as otherwise the locking inserts (2) on the grab handle (1) cannot correctly engage.
- Engage the locking inserts (2) on both sides of the grab handle (1).

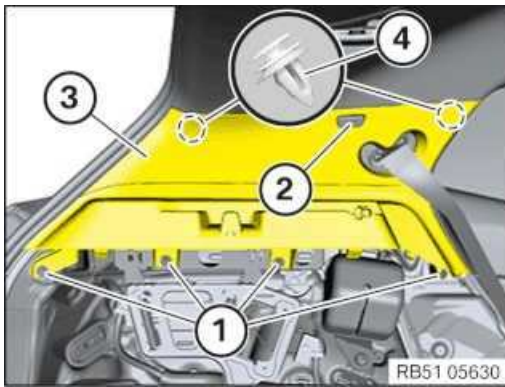
### 33 – Install the trim panel for left and right the luggage compartment capping



#### NOTICE

Description is for left component only. Procedure on the right side is identical.

#### ► Install the trim panel for the luggage compartment capping



- Install trim panel of the luggage compartment capping (3) and thread in the end fitting.
- Clip in the trim panel of the luggage compartment capping (3) at the clips (4).
- Tighten screw and mount cover (2).

#### Trim panel of luggage compartment capping

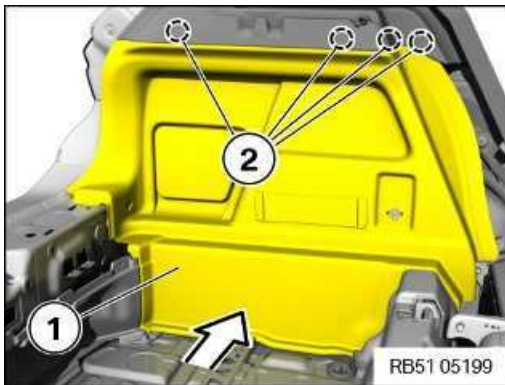
|                    |  |                   |      |
|--------------------|--|-------------------|------|
| Self-tapping screw |  | Tightening torque | 4 Nm |
|--------------------|--|-------------------|------|

- Tighten the screws (1).

#### Trim panel of luggage compartment capping to body

|               |  |                   |        |
|---------------|--|-------------------|--------|
| Hexagon screw |  | Tightening torque | 1,8 Nm |
|---------------|--|-------------------|--------|

### 34 – Install luggage compartment wheel arch trim panel at left



#### NOTICE

Schematic diagram is for example purposes. Some parts may differ in certain details.

- Push the luggage compartment wheel arch trim panel (1) down in the direction of the arrow and feed it into the guides (2) and under the C-pillar trim bottom.

- Position the lashing eyes (3) and tighten the screws (2).

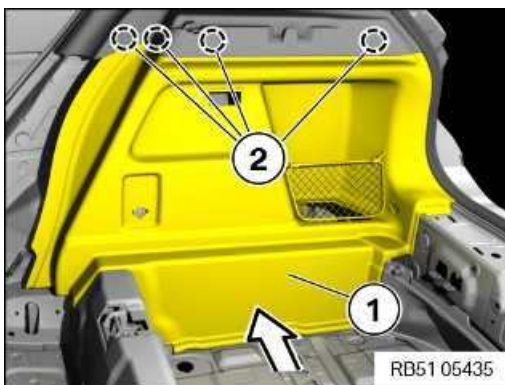
#### Lashing eye in luggage compartment

|              |  |                   |       |
|--------------|--|-------------------|-------|
| Bolt M8 x 22 |  | Tightening torque | 21 Nm |
|--------------|--|-------------------|-------|

- Clip in the covers (1).



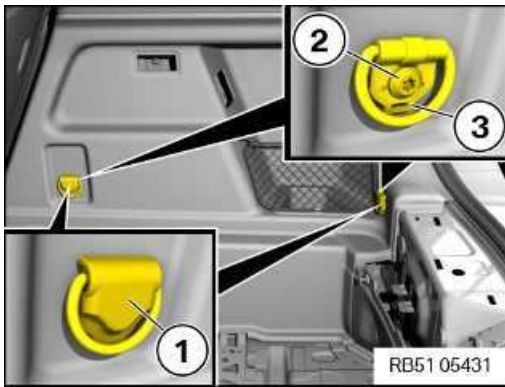
### 35 – Installing the luggage compartment wheel arch trim panel on the right



#### NOTICE

Schematic diagram is for example purposes. Some parts may differ in certain details.

- Press luggage compartment wheel arch trim panel (1) down in direction of arrow and feed into the guides (2) and under the bottom C-pillar trim panel.



- Position the lashing eyes (3) and tighten the screws (2).

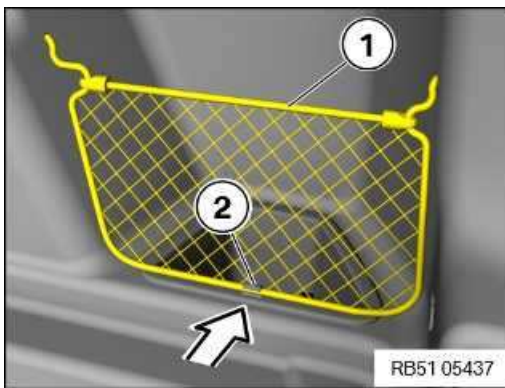
#### Lashing eye in luggage compartment

|              |  |                   |       |
|--------------|--|-------------------|-------|
| Bolt M8 x 22 |  | Tightening torque | 21 Nm |
|--------------|--|-------------------|-------|

- Clip in the covers (1).



- Install the storage compartment (1) in the luggage compartment wheel arch trim panel in direction of arrow.



- Clip storage net (1) into latch mechanisms (2) in direction of arrow.

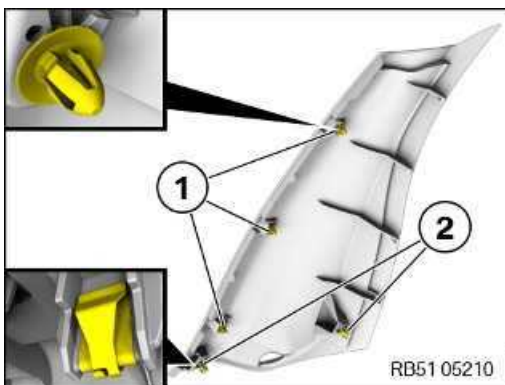
### 36 – Install C-pillar trim panel at bottom left and right



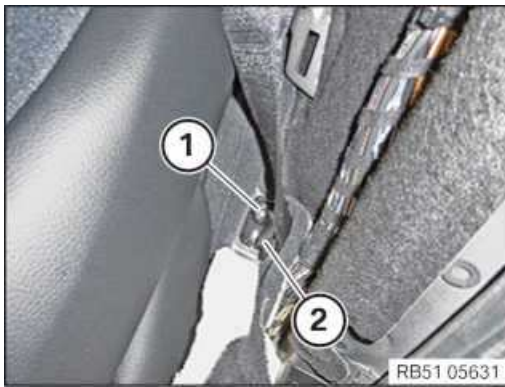
#### NOTICE

Description is for left component only. Procedure on the right side is identical.

#### ► Install the bottom C-pillar trim panel



- Check clips (1) for damage, and replace if necessary.
- Check the clamps (2) for damage, and replace if necessary.

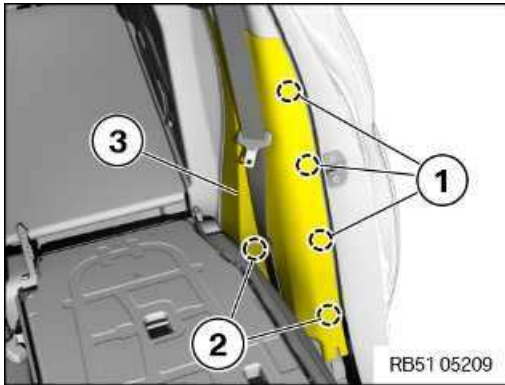


- Insert the end fitting (2) through the C-pillar trim panel.
- Mount the end fitting (2) and tighten the screw (1).

#### End fitting to body

| Screw | Renew screw. | Tightening torque | 42 Nm |
|-------|--------------|-------------------|-------|
|-------|--------------|-------------------|-------|

- Install the carpet correctly.



- Clip in the C-pillar trim panel on the bottom (3) with the clamps (2) and the clips (1).



- Position the edge protection (1) correctly in the area of the bottom C-pillar trim.

### 37 – Install the door sill cover strip on the rear left and right

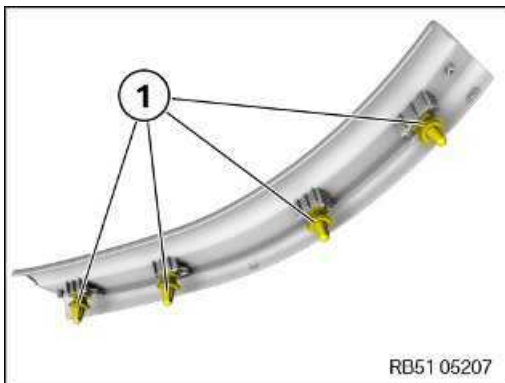


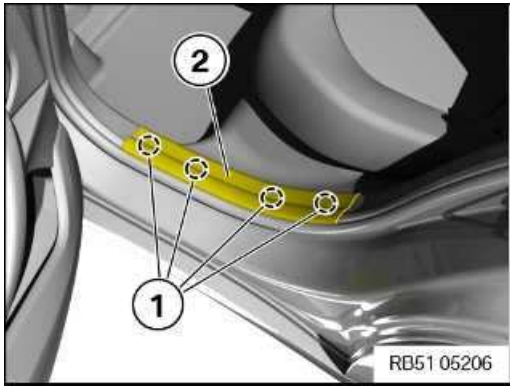
#### NOTICE

Description is for left component only. Procedure on the right side is identical.

#### ► Installing the rear door sill cover strip

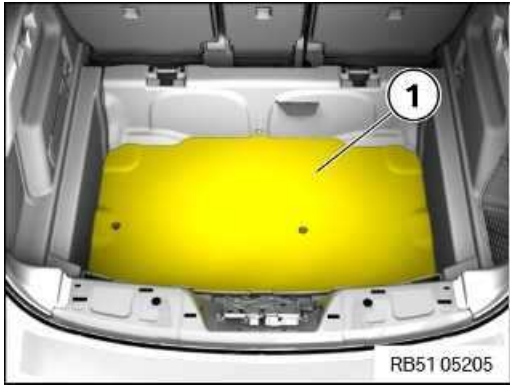
- Check the clips (1) for damage and renew where required.





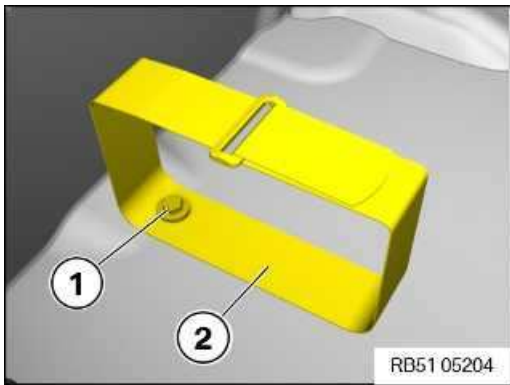
- Clip in the door sill cover strip (2) with the clips (1).

### 38 – Installing the luggage compartment floor trim panel



- Position the luggage compartment floor trim panel (1).

### 39 – Inserting the Velcro fastener for the toolkit

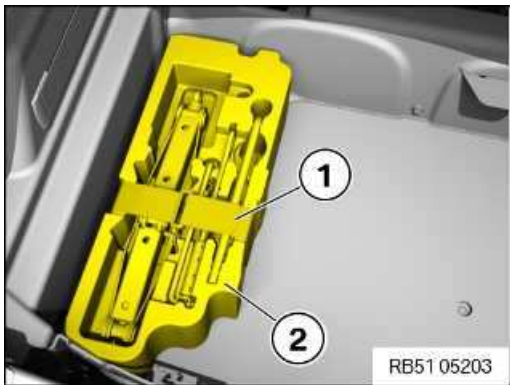


- Insert Velcro fastener (2).
- Tighten down screw (1).

#### Toolkit hook and loop tape to body

|              |  |                   |      |
|--------------|--|-------------------|------|
| Bolt M6 x 20 |  | Tightening torque | 4 Nm |
|--------------|--|-------------------|------|

### 40 – Install the tool kit

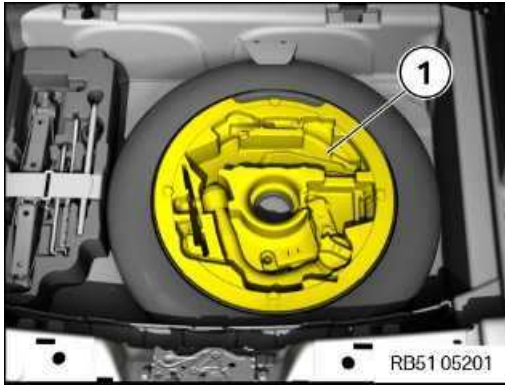


- Install the tool kit (2).
- Close the hook and loop tape (1).

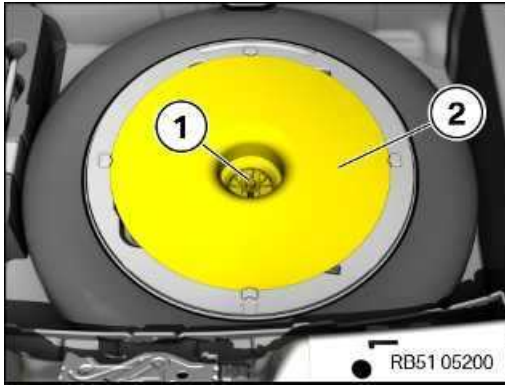
### 41 – Install the emergency wheel



- Insert compact spare wheel(1).

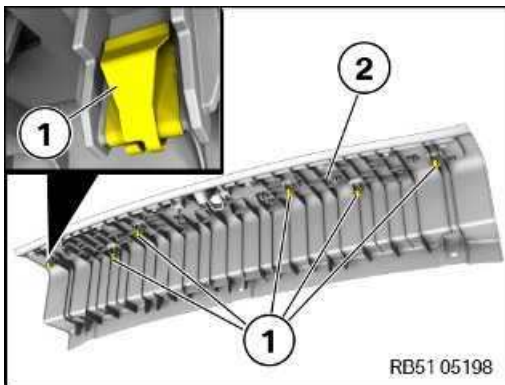


- Insert oddments tray into the compact spare wheel (1).

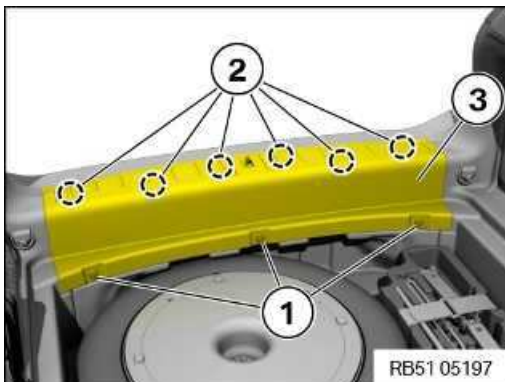


- Insert the lid (2).
- Hand-tighten the bolt (1).

#### 42 – Installing loading edge trim

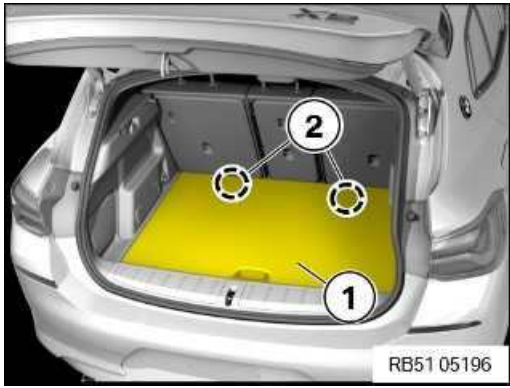


- Check the clamps (1) at the loading edge trim (2) for damage and renew if necessary.



- Insert the loading edge trim (3) in the area of the expanding rivets (1) into the underlying rear luggage compartment trim panel.
- Guide in the loading edge trim (3) under the sealing lip of the seal for the tailgate and clip it in with the clamps (2).
- Secure expanding rivet (1).

#### 43 – Installing the luggage compartment removable panel



- Clip luggage compartment removable panel (1) into latch mechanisms (2) and set down.

#### 44 – Disconnecting all battery earth leads



- See additional information.

### Additional Information

#### Overview of Tightening Torques

##### A-pillar trim panel to body Used in step [27](#)

|             |             |                   |        |
|-------------|-------------|-------------------|--------|
| M5x42 screw | Renew screw | Tightening torque | 2,2 Nm |
|-------------|-------------|-------------------|--------|

##### Counter support on body Used in step [29](#)

|       |  |                   |        |
|-------|--|-------------------|--------|
| Screw |  | Tightening torque | 2,5 Nm |
|-------|--|-------------------|--------|

##### Trim panel of luggage compartment capping Used in step [33](#)

|                    |  |                   |      |
|--------------------|--|-------------------|------|
| Self-tapping screw |  | Tightening torque | 4 Nm |
|--------------------|--|-------------------|------|

##### Trim panel of luggage compartment capping to body Used in step [33](#)

|               |  |                   |        |
|---------------|--|-------------------|--------|
| Hexagon screw |  | Tightening torque | 1,8 Nm |
|---------------|--|-------------------|--------|

##### Lashing eye in luggage compartment Used in step [34](#) [35](#)

|              |  |                   |       |
|--------------|--|-------------------|-------|
| Bolt M8 x 22 |  | Tightening torque | 21 Nm |
|--------------|--|-------------------|-------|

##### End fitting to body Used in step [36](#)

|       |              |                   |       |
|-------|--------------|-------------------|-------|
| Screw | Renew screw. | Tightening torque | 42 Nm |
|-------|--------------|-------------------|-------|

##### Toolkit hook and loop tape to body Used in step [39](#)

|              |  |                   |      |
|--------------|--|-------------------|------|
| Bolt M6 x 20 |  | Tightening torque | 4 Nm |
|--------------|--|-------------------|------|

### Overview of Special Tools



## Common

Used in step 17 19

|                              |                                                                                                 |
|------------------------------|-------------------------------------------------------------------------------------------------|
| Usage                        | (Panel wedge) From 11/2008 this special tool replaces panel wedge 00 9 317 (different material) |
| Included in the tool or work | 0 490 527                                                                                       |
| Storage location             | Individual                                                                                      |
| Replaced by                  |                                                                                                 |
| In connection with           |                                                                                                 |
| SI-Number                    | 41 01 09 (507)                                                                                  |

## Links

## General repair instructions

Used in step

|                                                                                          |       |
|------------------------------------------------------------------------------------------|-------|
| <a href="#">72 00 ... Safety regulations for handling components with gas generators</a> | 18 27 |
|------------------------------------------------------------------------------------------|-------|

## Repair instructions

Used in step

|                                                                                                         |      |
|---------------------------------------------------------------------------------------------------------|------|
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 44 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 44 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 44 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 44 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 44 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 44 |
| <a href="#">61 20 900 Disconnecting and connecting the battery earth lead (all battery earth leads)</a> | 1 44 |
| <a href="#">61 20 900 Disconnecting and connecting the battery earth lead (all battery earth leads)</a> | 1 44 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 44 |
| <a href="#">61 20 900 Disconnecting and connecting the battery earth lead (all battery earth leads)</a> | 1 44 |
| <a href="#">61 20 900 Disconnect and connect battery earth lead (Plug-in Hybrid Electric Vehicle)</a>   | 1 44 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 44 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 44 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 44 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 44 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 44 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 44 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 44 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 44 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 44 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 44 |
| <a href="#">61 20 900 Disconnecting and connecting the battery earth lead (all battery earth leads)</a> | 1 44 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 44 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 44 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 44 |

|                                                                           |      |
|---------------------------------------------------------------------------|------|
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a> | 1 44 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a> | 1 44 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a> | 1 44 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a> | 1 44 |

## 84 10 330 Removing and installing the telematics control unit underneath the headlining (for equipment specification without panorama glass roof)



### RISK OF DAMAGE

#### Scratches.

Tools and sharp-edged components can cause scratches.

- Protect working area.
- Handle tools and components carefully.

### PRELIMINARY WORK

#### 1 – Disconnecting all battery earth leads



- See additional information.

#### 2 – Remove the door sill cover strip on the rear left and right

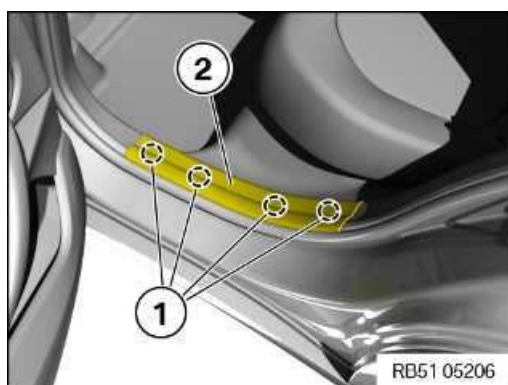


### NOTICE

Description is for left component only. Procedure on the right side is identical.

#### ► Remove rear entrance cover strip

- Unclip the clips (1) of the door sill cover strip (2).
- Remove the door sill cover strip (2).



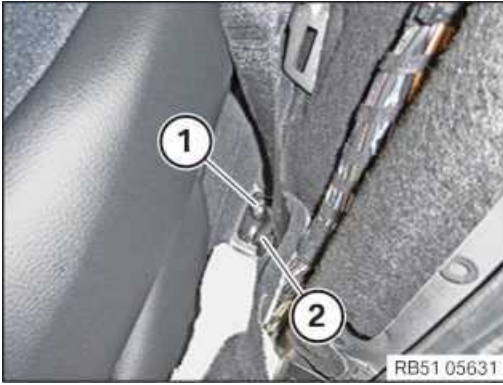
#### 3 – Removing the bottom left and right C-pillar trim panels



### NOTICE

Description is for left component only. Procedure on the right side is identical.

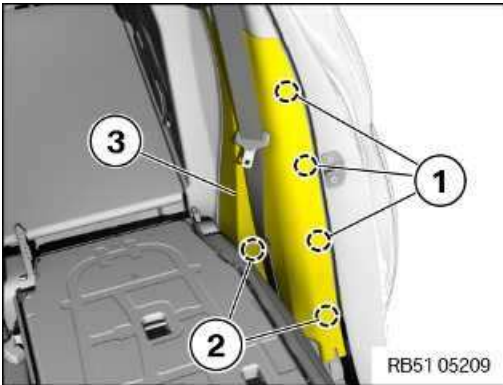
#### ► Remove the bottom C-pillar trim panel



- Fold up the carpet as shown.
- Loosen screw (1).
- Remove end fitting (2).

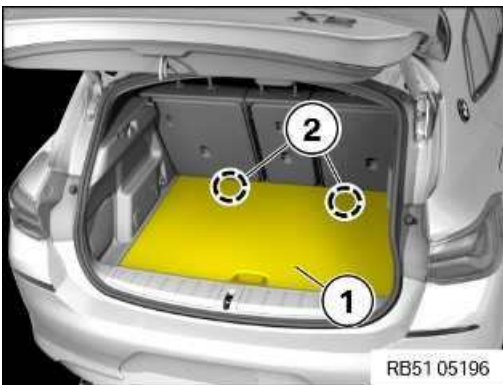


- Release the edge protection (1) in area of the bottom C-pillar trim panel.



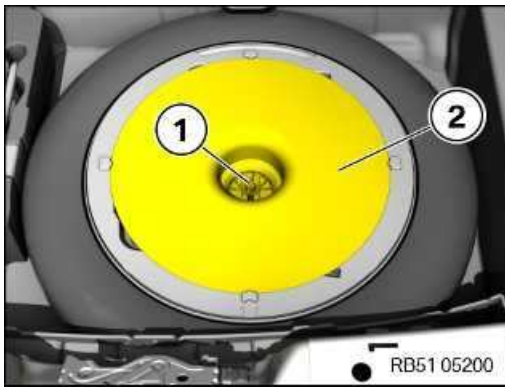
- Clip in the C-pillar trim panel (3) on the bottom with the clamps (1) and the clips (2).
- Detach end fitting and remove the bottom C-pillar trim panel (3).

#### 4 – Removing the luggage compartment removable panel

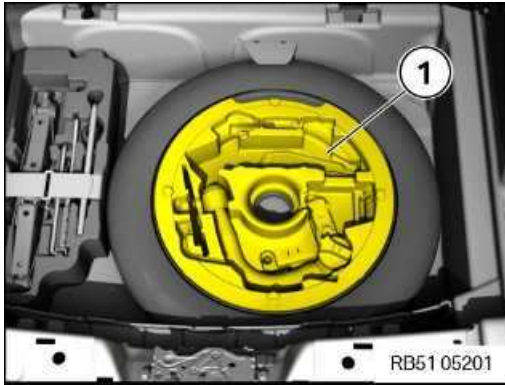


- Raise the luggage compartment removable panel (1) slightly at the handle, detach it from the latch mechanisms (2) and remove it toward the back.

#### 5 – Removing the compact spare wheel



- Loosen screw (1).
- Remove the cover (2).

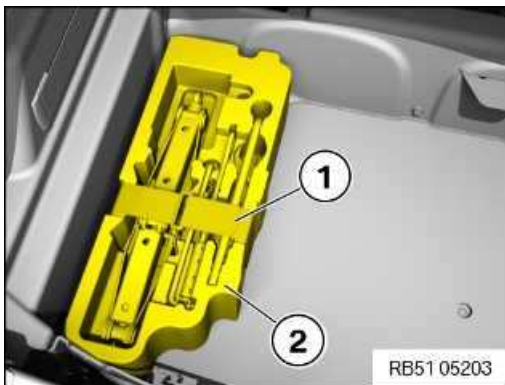


- Remove the oddments tray from the emergency wheel (1).



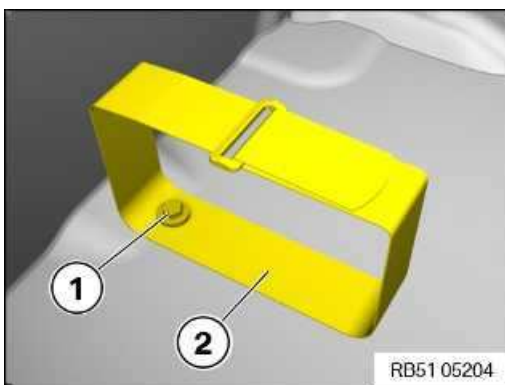
- Remove the emergency wheel (1).

## 6 – Remove the tool kit



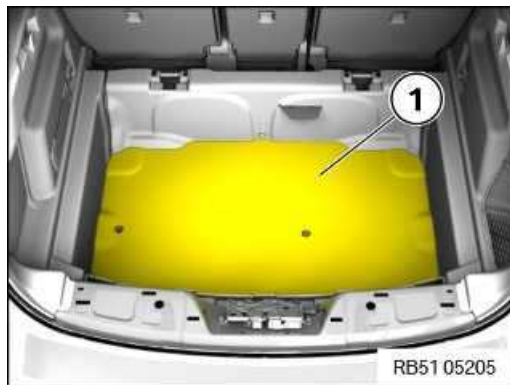
- Open the hook and loop tape (1).
- Remove the tool kit (2).

## 7 – Remove the hook and loop tape for the tool kit



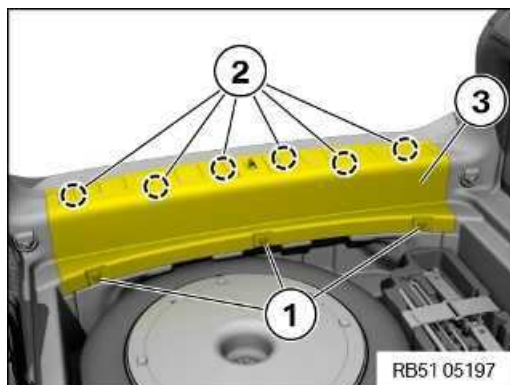
- Loosen screw (1).
- Remove the hook and loop tape (2).

## 8 – Removing the luggage compartment floor trim panel



- Remove the luggage compartment floor trim panel (1) upwards.

## 9 – Removing the loading edge trim

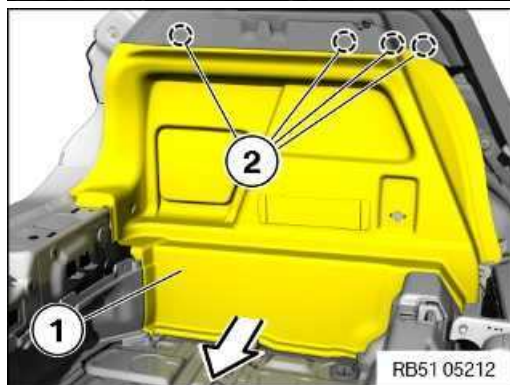


- Loosen the expanding rivet (1).
- Unclip the loading edge trim (3) from the clamps (2) toward the top and remove.

## 10 – Remove luggage compartment wheel arch trim panel on left.



- Unclip covers (1).
- Unscrew the bolts (2) and remove the lashing points (3).

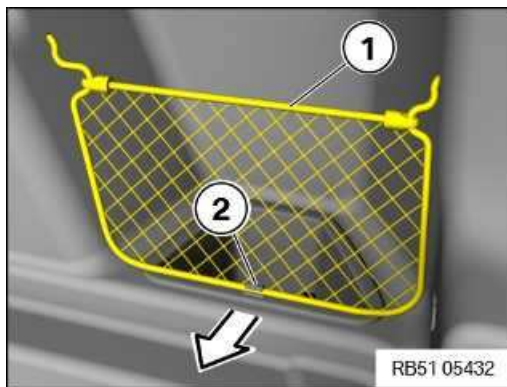


### NOTICE

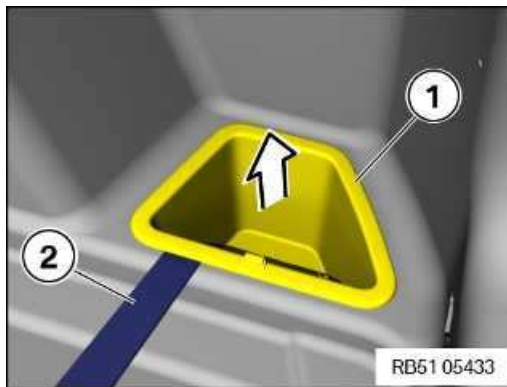
Schematic diagram is for example purposes. Some parts may differ in certain details.

- Pull the luggage compartment wheel arch trim panel (1) on the bottom in the direction of the arrow and guide it out of the guides (2) and the C-pillar trim panel and remove.

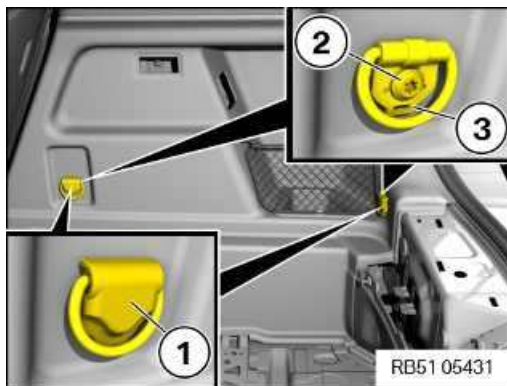
## 11 – Removing right luggage compartment wheel arch trim panel



- Release the storage net (1) from the latch mechanism (2) in the direction of arrow and fold up.



- Remove storage compartment (1) out of the luggage compartment wheel arch trim panel in the direction of arrow using a suitable tool (2).



- Unclip covers (1).
- Unscrew the bolts (2) and remove the lashing points (3).



**NOTICE**

Schematic diagram is for example purposes. Some parts may differ in certain details.

- Pull the luggage compartment wheel arch trim panel (1) on the bottom in the direction of the arrow and guide it out of the guides (2) and the C-pillar trim panel and remove.

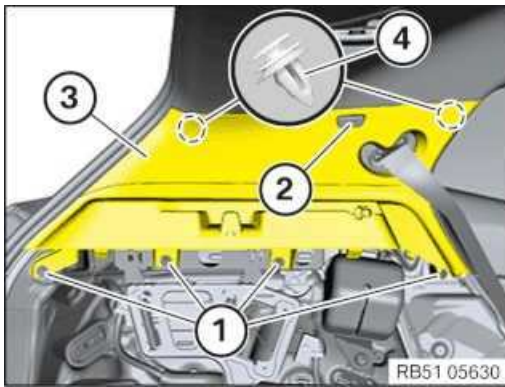
## 12 – Remove the trim panel of the luggage compartment capping on the left and right



### NOTICE

Description is for left component only. Procedure on the right side is identical.

- Remove the trim panel of the luggage compartment capping



- Loosen screws (1).
- Remove the cover (2) with a suitable plastic wedge and unscrew the screw below it.
- Detach the trim panel of the luggage compartment capping (3) from the clips (4).
- Feed out the end fitting and remove the trim panel of the luggage compartment capping (3).

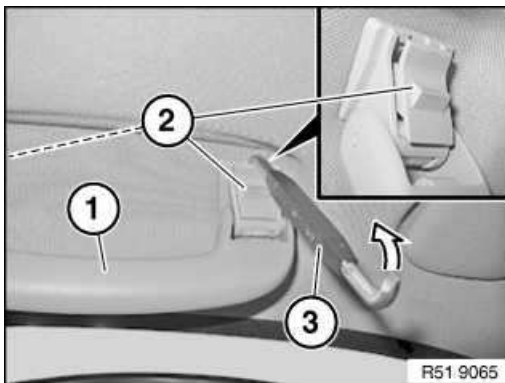
### 13 – Removing all grab handles



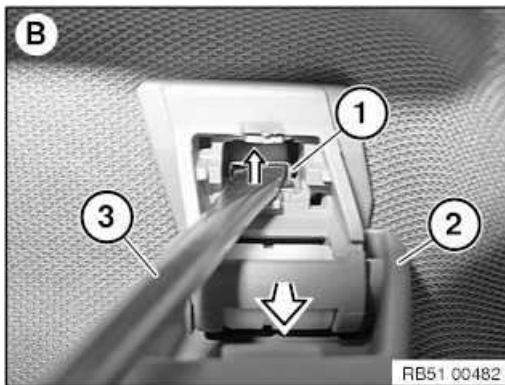
#### NOTICE

The description is for one component only. The procedure is identical for all further components.

#### ► Removing the grab handle

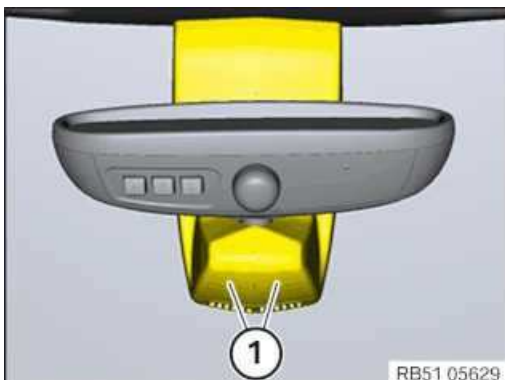


- Expand the grab handle (1) towards the bottom.
- Disengage and remove the locking insert (2) with an angle screwdriver (3) as shown.



- Pull the grab handle (2) slightly to the inside and hold it.
- Use a suitable screwdriver (3) to detach the upper and lower release tabs (1).
- Guide the grab handle (2) out.
- Repeat the operation on the other side of the grab handle (2).

### 14 – Remove the cover on the inside mirror



- Unclip the covers on the interior mirror (1) outward with a suitable plastic wedge in the center and remove.

### 15 – Remove both sun visors



## NOTICE

Description is for left component only. Procedure on the right side is identical.

### ► Remove sun visor



- Pull out the cover (1).
- Detach the sun visor (2) from the counter support .
- Disengage the sun visor (2) in front to the bottom and thread it out of the headlining at the rear.
- Unlock associated plug connection and disconnect.

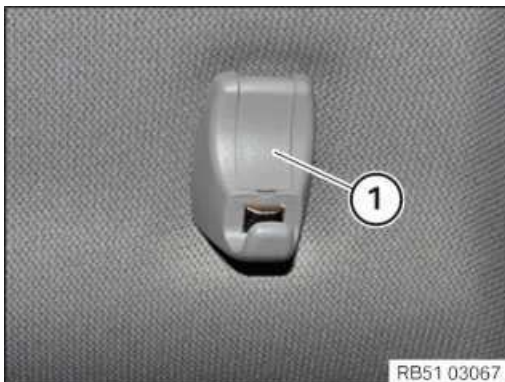
## 16 – Removing counter supports for sun visor on left and right



## NOTICE

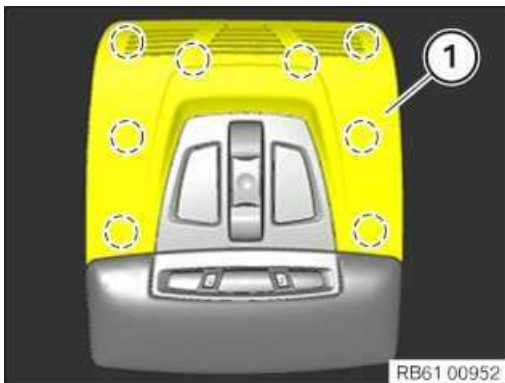
Description is for left component only. Procedure on the right side is identical.

### ► Remove the counter support for the sun visor

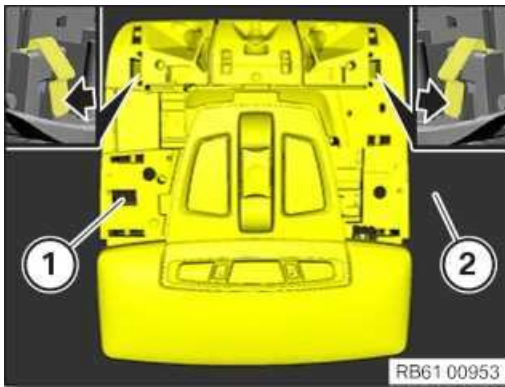


- Open the cover (1) and release the screw underneath.
- Remove the counter support downward.

## 17 – Remove the roof function centre



- Carefully unclip and remove the trim (1) with the special tool **0 496 569 (00 9 325)**.



- Unlock the left/right retaining lugs using a screwdriver in direction of the arrow.
- Remove the roof function centre (1) from the headlining (2).
- Unlock and disconnect associated connector.

## 18 – Removing the left and right A-pillar trim panels



### NOTICE

Description is for left component only. Procedure on the right side is identical.

### ► Remove the A-pillar trim panel



### WARNING

#### Airbag unit.

#### **Danger! Life-threatening injuries!**

- Before performing any work on the airbag, always disconnect the battery earth lead from the battery.
- Airbag unit may only be set down with the cushion (airbag itself) facing upwards.
- For additional information see: 72 00 ... Safety regulations on handling airbag system components/gas generators



### WARNING

#### Pyrotechnic components.

#### **Danger! Life-threatening injuries!**

- All work on pyrotechnic parts may be carried out by technically experienced and appropriately trained personnel only.
- Replace any damaged part or ones that have been dropped.
- For additional information see: 72 00 Safety regulations on handling components with gas generators.



- Unclip cover (1) and unscrew the screw below it.
- Release the A-pillar trim panel (2) from the clips (3) and guide out upwards.

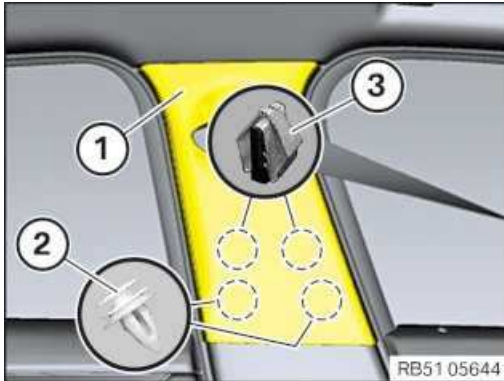
## 19 – Removing the B-pillar trim panels at top left and right



## NOTICE

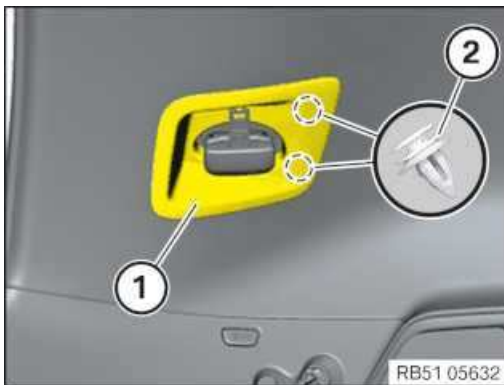
Description is for left component only. Procedure on the right side is identical.

### ► Partially removing upper B-pillar trim panel



- Carefully release the B-pillar trim panel (1) from the clips (2) and the clamps (3) with the special tool **0 496 569 (00 9 325)** and guide it out of the headlining in a downwards direction.

### 20 – Remove the belt feed trim



- Unclip the belt feed trim (1) at the clips (2) and slide it forward and out of the headliner.
- Slide out the seat belt and remove the belt feed trim (1).

### 21 – Lower roofliner

#### Prerequisite

The front seats have been fully adjusted towards the bottom.

The front seat backrests have been fully adjusted towards the rear.

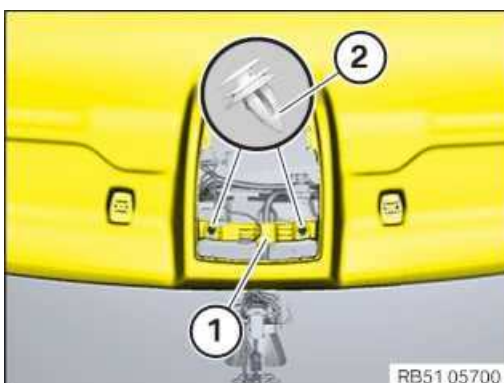


## RISK OF DAMAGE

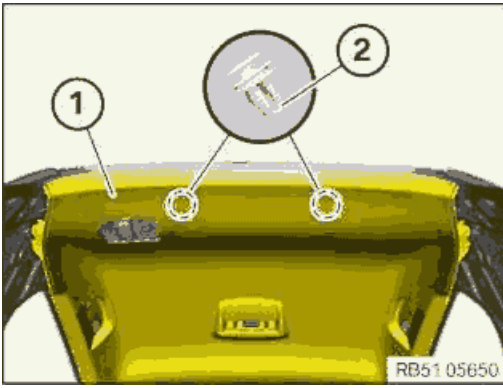
**Fold the headlining.**

**If the headlining is folded, it may have to be replaced.**

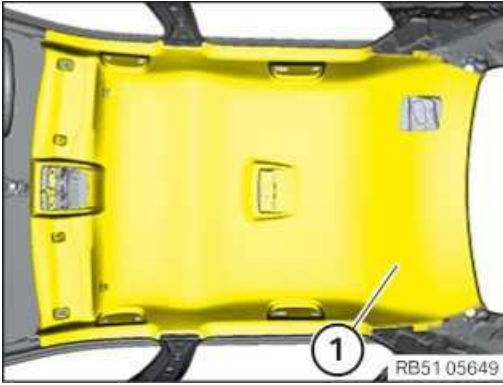
- Carry out tasks with a second person to assist.
- Support the headlining at the front and back.



- Loosen the frame (1) at the clips (2).
- If necessary, loosen the cable clip from the frame (1).



- Carefully release the headlining (1) at the clips (2).



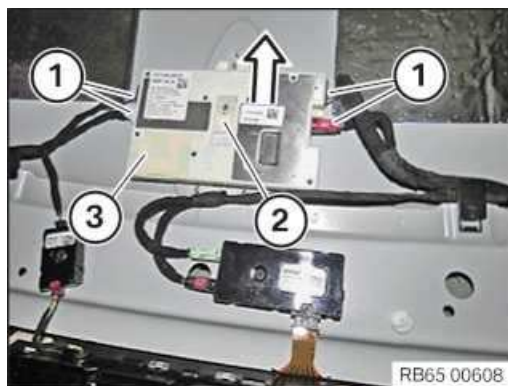
- Carefully guide out the headlining (1) at the respective edge protection and place it onto the seats in the vehicle.

### 22 – Removing the telematics control unit



#### NOTICE

Schematic diagram is for example purposes. Some parts may differ in certain details.



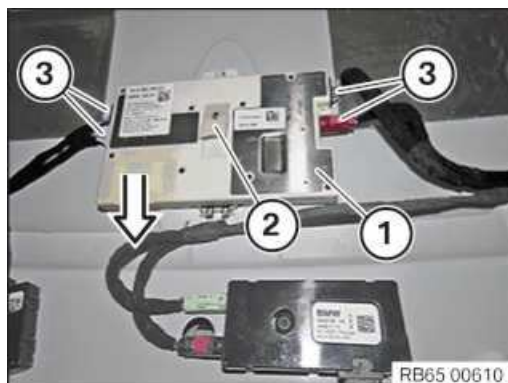
- Unlock and disconnect connector (1).
- Unlock the lock (2) downward.
- Slide the telematics control unit (3) in the direction of the arrow and remove.

### 23 – Installing the telematics control unit



#### NOTICE

Schematic diagram is for example purposes. Some parts may differ in certain details.



- Correctly position the telematics control unit (1) and push it in the direction of the arrow until the lock (2) engages.
- Position and connect the connectors (3).

## POSTPROCESSES

---

### 24 – Install the headlining (lowered)

#### Prerequisite

The front seats have been fully adjusted towards the bottom.

The front seat backrests have been fully adjusted towards the rear.

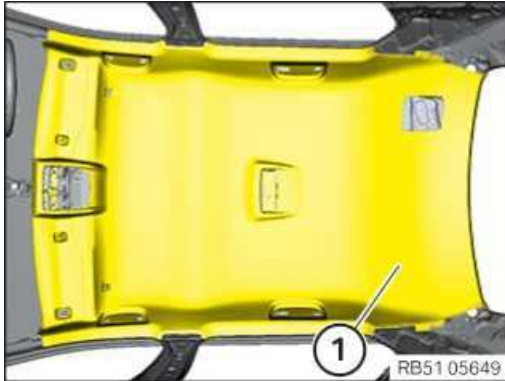


## RISK OF DAMAGE

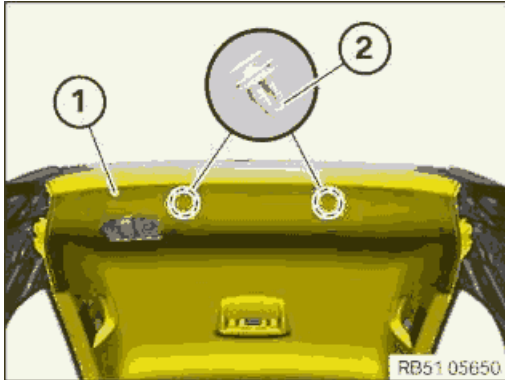
**Fold the headlining.**

**If the headlining is folded, it may have to be replaced.**

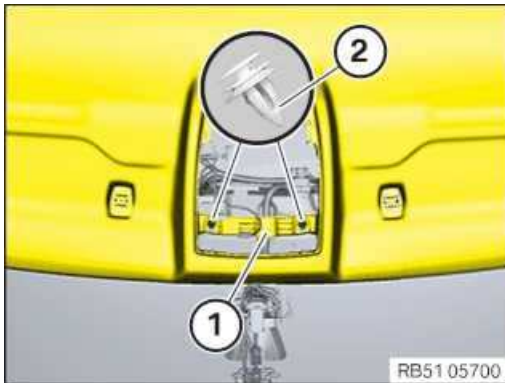
- Carry out tasks with a second person to assist.
- Support the headlining at the front and back.



- Install the headlining (1) and carefully insert it at the respective edge protection.



- Clip in the headlining (1) using the clips (2).



- Clip in the frame (1) with the clips (2).
- If necessary, attach the cable clip onto the frame (1).

### 25 – Install the belt feed trim



- Feed in the seat belt on the belt feed trim (1).
- Feed in the belt feed trim (1) toward the rear on the headliner and clip in at the clips (2).

### 26 – Installing the top left and right B-pillar trim panels



## NOTICE

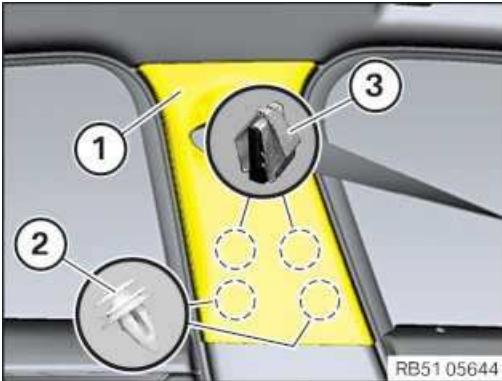
Description is for left component only. Procedure on the right side is identical.

### ► Partially installing upper B-pillar trim panel



## TECHNICAL INFORMATION

Latch mechanisms, guides and mounting elements must not be damaged or missing.



- Insert the B-pillar trim panel (1) into the headlining and lock it at the clips (2) and the clamps (3).
- Make sure that the B-pillar trim panel (1) is correctly positioned at the respective edge protection.

## 27 – Installing the left and right A-pillar trim panels



## NOTICE

Description is for left component only. Procedure on the right side is identical.

### ► Install the A-pillar trim panel



## WARNING

### Airbag unit.

#### **Danger! Life-threatening injuries!**

- Before performing any work on the airbag, always disconnect the battery earth lead from the battery.
- Airbag unit may only be set down with the cushion (airbag itself) facing upwards.
- For additional information see: 72 00 ... Safety regulations on handling airbag system components/gas generators



## WARNING

### Pyrotechnic components.

#### **Danger! Life-threatening injuries!**

- All work on pyrotechnic parts may be carried out by technically experienced and appropriately trained personnel only.
- Replace any damaged part or ones that have been dropped.
- For additional information see: 72 00 Safety regulations on handling components with gas generators.

Latch mechanisms, guides and mounting elements must not be damaged or missing.



- Thread in the A-pillar trim panel (2) and clip it in at the clips (3).
- Renew screw.

**Parts:** Screw

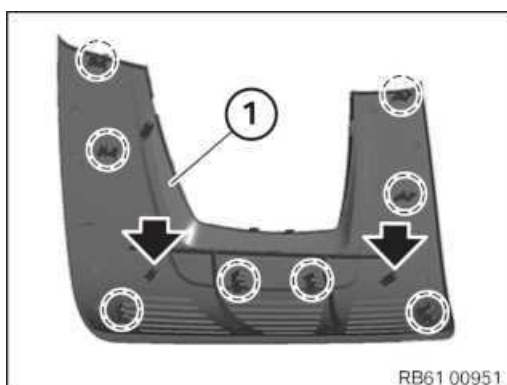
- Tighten down screw.

#### A-pillar trim panel to body

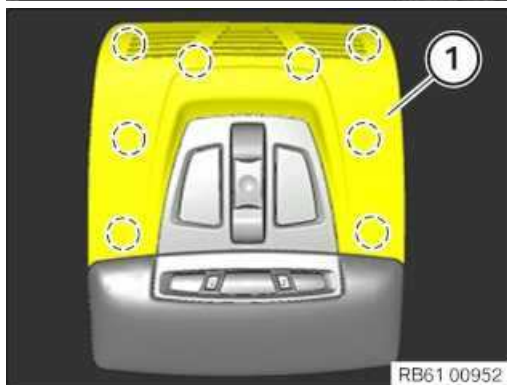
|             |             |                   |        |
|-------------|-------------|-------------------|--------|
| M5x42 screw | Renew screw | Tightening torque | 2,2 Nm |
|-------------|-------------|-------------------|--------|

- Clip in the cover (1).

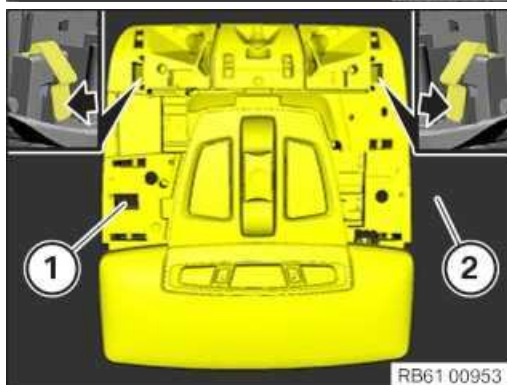
### 28 – Install the roof function centre



- The retaining lugs and guides on the trim (1) must not be damaged or missing.



- Carefully engage the trim (1) in the roof function centre.



#### NOTICE

To provide a better overview: Schematic diagram with partially hidden components.

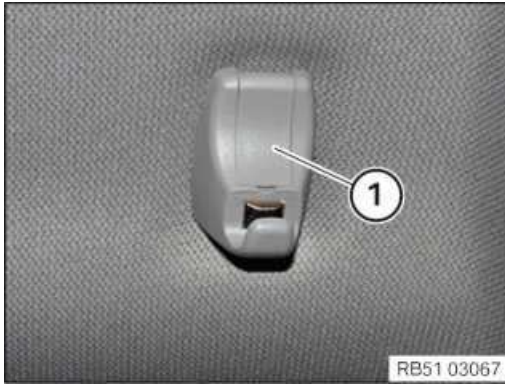
- Connect associated connector.
- Join the roof function centre (1) to the headlining (2).

### 29 – Install the counter supports for the sun visor on left and right



#### NOTICE

Description is for left component only. Procedure on the right side is identical.



#### ► Install the counter support for the sun visor

- Install the counter support.
- Tighten screw and close the cover (1).

#### Counter support on body

|       |  |                   |        |
|-------|--|-------------------|--------|
| Screw |  | Tightening torque | 2,5 Nm |
|-------|--|-------------------|--------|

### 30 – Install both sun visors



#### NOTICE

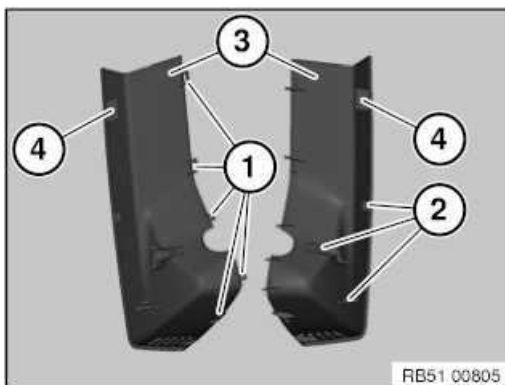
Description is for left component only. Procedure on the right side is identical.



#### ► Install the sun visor

- Connect the sun visor (2) with the corresponding connector.
- Guide the sun visor (2) into the headlining.
- Use cover (1).
- Attach the sun visor (2) on the counter support.

### 31 – Install the cover on the inside mirror

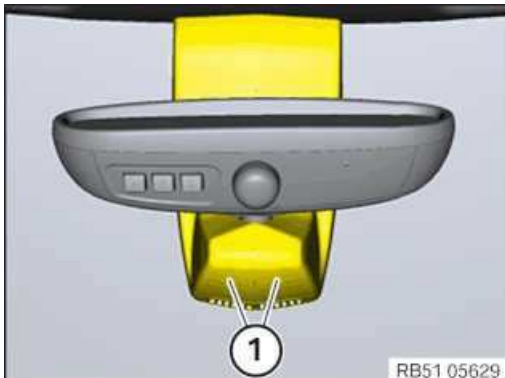


- Check the latch mechanisms (1) and guides (2) on the two covers (3) for damage, renew if necessary.

The latch mechanisms (1) and guides (2) must not be damaged.

- Check the spacers (4).

The spacers (4) must not be damaged or missing.

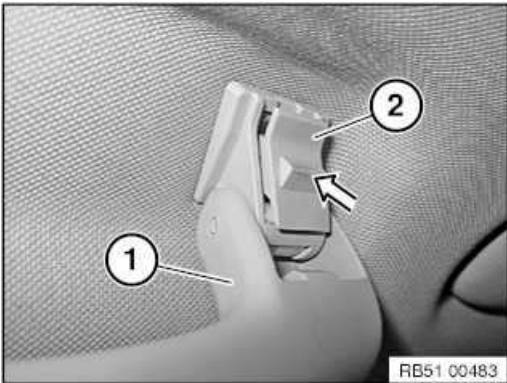


- Install covers on the interior mirror (1) clip together.

32 – Installing all grab handles

**NOTICE**

The description is for one component only. The procedure is identical for all further components.



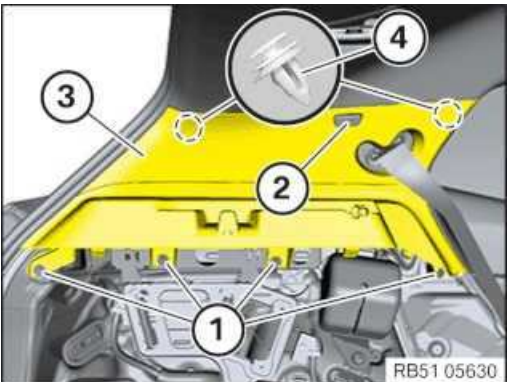
► Installing the grab handle

- Insert the grab handle (1) into body.
- Correctly clamp in the grab handle (1), as otherwise the locking inserts (2) on the grab handle (1) cannot correctly engage.
- Engage the locking inserts (2) on both sides of the grab handle (1).

33 – Install the trim panel for left and right the luggage compartment capping

**NOTICE**

Description is for left component only. Procedure on the right side is identical.



► Install the trim panel for the luggage compartment capping

- Install trim panel of the luggage compartment capping (3) and thread in the end fitting.
- Clip in the trim panel of the luggage compartment capping (3) at the clips (4).
- Tighten screw and mount cover (2).

Trim panel of luggage compartment capping

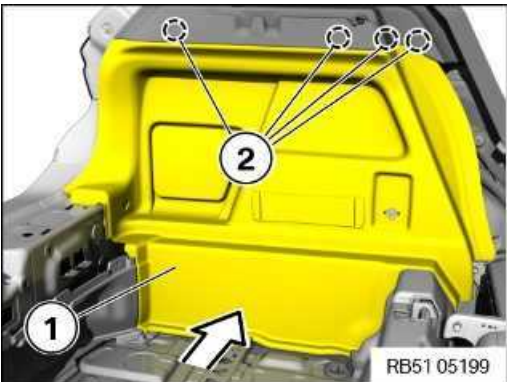
|                    |  |                   |      |
|--------------------|--|-------------------|------|
| Self-tapping screw |  | Tightening torque | 4 Nm |
|--------------------|--|-------------------|------|

- Tighten the screws (1).

Trim panel of luggage compartment capping to body

|               |  |                   |        |
|---------------|--|-------------------|--------|
| Hexagon screw |  | Tightening torque | 1,8 Nm |
|---------------|--|-------------------|--------|

34 – Install luggage compartment wheel arch trim panel at left



**NOTICE**

Schematic diagram is for example purposes. Some parts may differ in certain details.

- Push the luggage compartment wheel arch trim panel (1) down in the direction of the arrow and feed it into the guides (2) and under the C-pillar trim bottom.



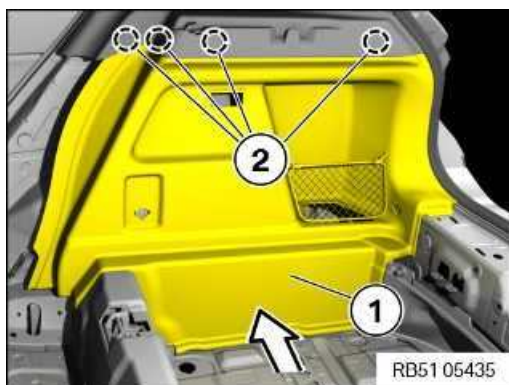
- Position the lashing eyes (3) and tighten the screws (2).

#### Lashing eye in luggage compartment

|              |  |                   |       |
|--------------|--|-------------------|-------|
| Bolt M8 x 22 |  | Tightening torque | 21 Nm |
|--------------|--|-------------------|-------|

- Clip in the covers (1).

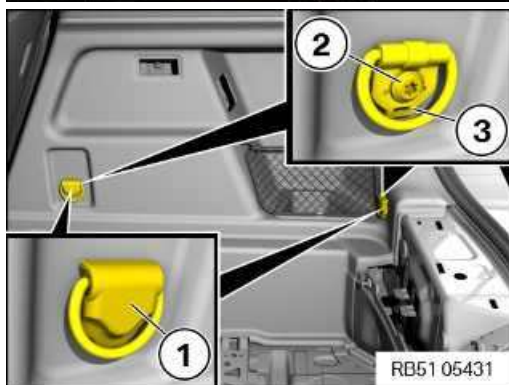
### 35 – Installing the luggage compartment wheel arch trim panel on the right



#### NOTICE

Schematic diagram is for example purposes. Some parts may differ in certain details.

- Press luggage compartment wheel arch trim panel (1) down in direction of arrow and feed into the guides (2) and under the bottom C-pillar trim panel.



- Position the lashing eyes (3) and tighten the screws (2).

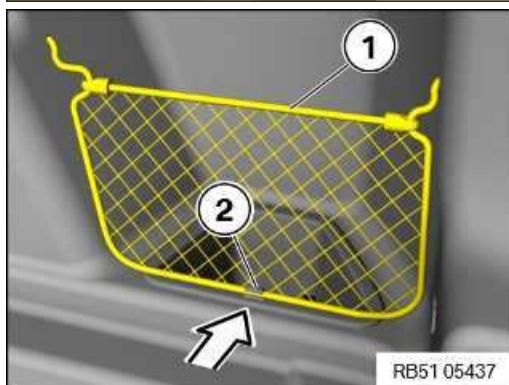
#### Lashing eye in luggage compartment

|              |  |                   |       |
|--------------|--|-------------------|-------|
| Bolt M8 x 22 |  | Tightening torque | 21 Nm |
|--------------|--|-------------------|-------|

- Clip in the covers (1).



- Install the storage compartment (1) in the luggage compartment wheel arch trim panel in direction of arrow.



- Clip storage net (1) into latch mechanisms (2) in direction of arrow.

### 36 – Install C-pillar trim panel at bottom left and right

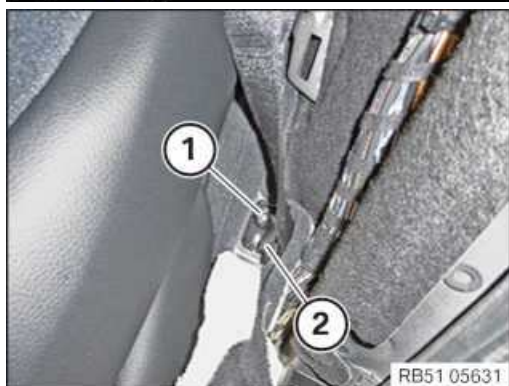
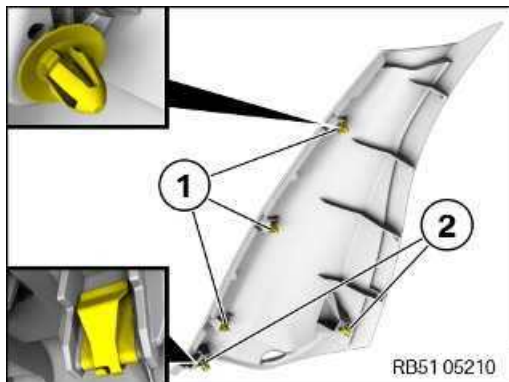


## NOTICE

Description is for left component only. Procedure on the right side is identical.

### ► Install the bottom C-pillar trim panel

- Check clips (1) for damage, and replace if necessary.
- Check the clamps (2) for damage, and replace if necessary.

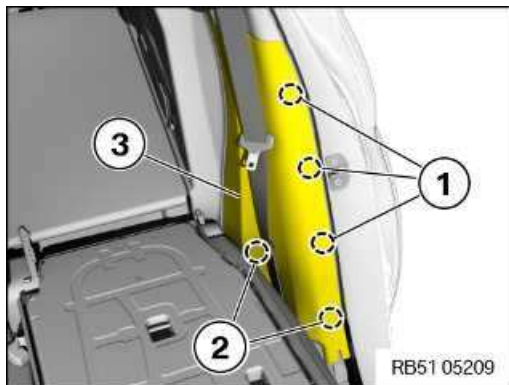


- Insert the end fitting (2) through the C-pillar trim panel.
- Mount the end fitting (2) and tighten the screw (1).

#### End fitting to body

| Screw | Renew screw. | Tightening torque | 42 Nm |
|-------|--------------|-------------------|-------|
|-------|--------------|-------------------|-------|

- Install the carpet correctly.



- Clip in the C-pillar trim panel on the bottom (3) with the clamps (2) and the clips (1).



- Position the edge protection (1) correctly in the area of the bottom C-pillar trim.

## 37 – Install the door sill cover strip on the rear left and right

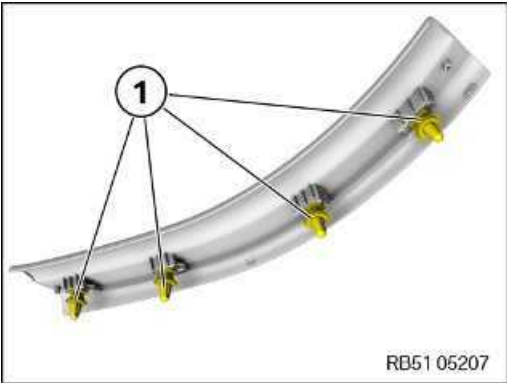


## NOTICE

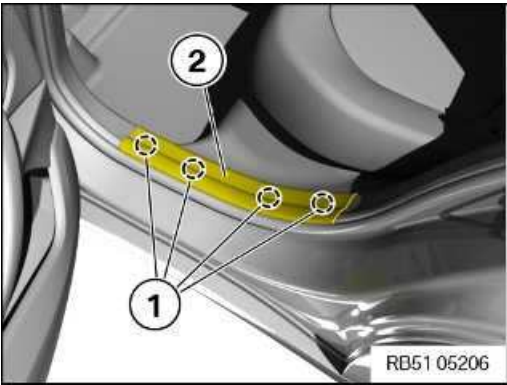
Description is for left component only. Procedure on the right side is identical.

### ► Installing the rear door sill cover strip

- Check the clips (1) for damage and renew where required.

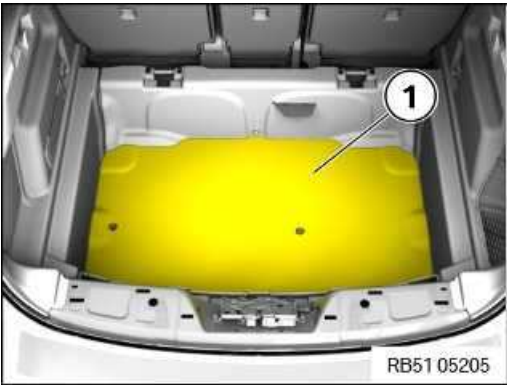


- Clip in the door sill cover strip (2) with the clips (1).



### 38 – Installing the luggage compartment floor trim panel

- Position the luggage compartment floor trim panel (1).

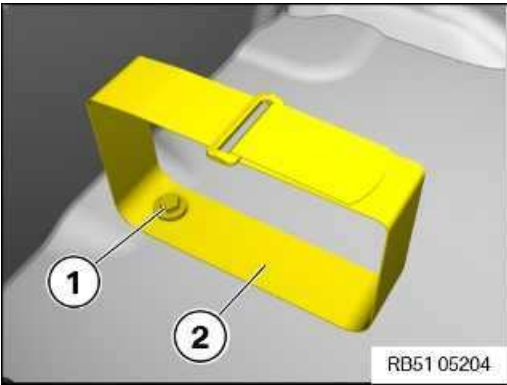


### 39 – Inserting the Velcro fastener for the toolkit

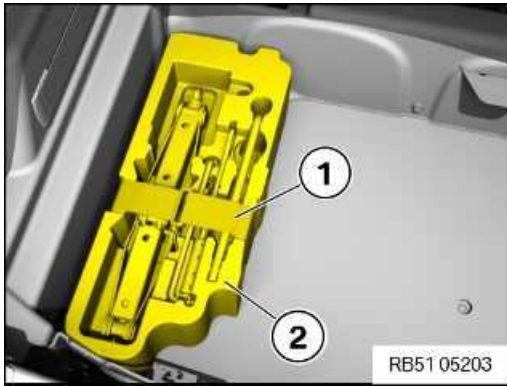
- Insert Velcro fastener (2).
- Tighten down screw (1).

#### Toolkit hook and loop tape to body

|              |  |                   |      |
|--------------|--|-------------------|------|
| Bolt M6 x 20 |  | Tightening torque | 4 Nm |
|--------------|--|-------------------|------|



### 40 – Install the tool kit

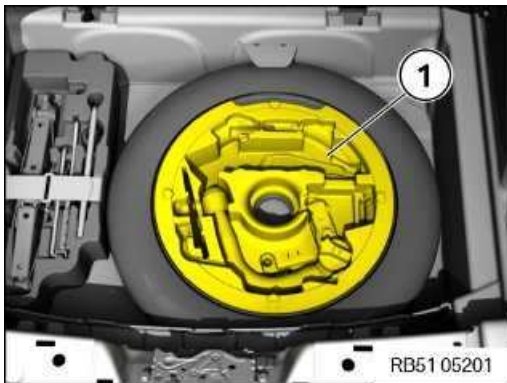


- Install the tool kit (2).
- Close the hook and loop tape (1).

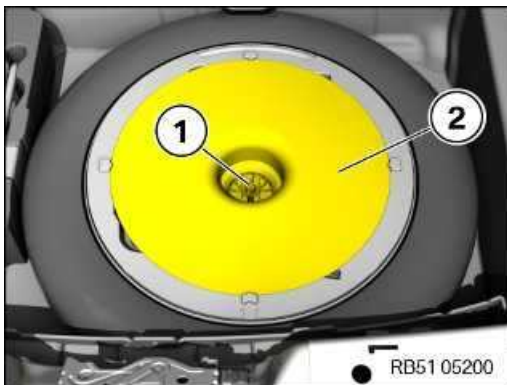
#### 41 – Install the emergency wheel



- Insert compact spare wheel(1).

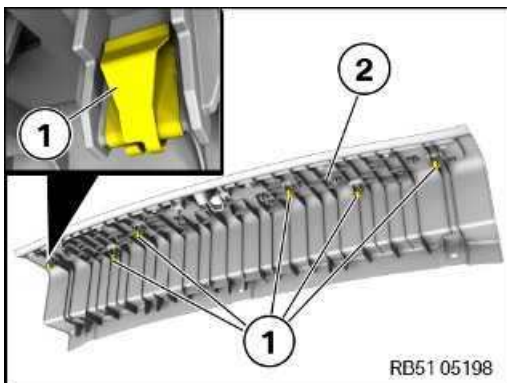


- Insert oddments tray into the compact spare wheel (1).

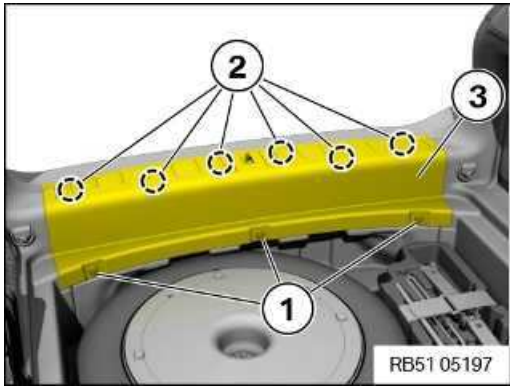


- Insert the lid (2).
- Hand-tighten the bolt (1).

#### 42 – Installing loading edge trim

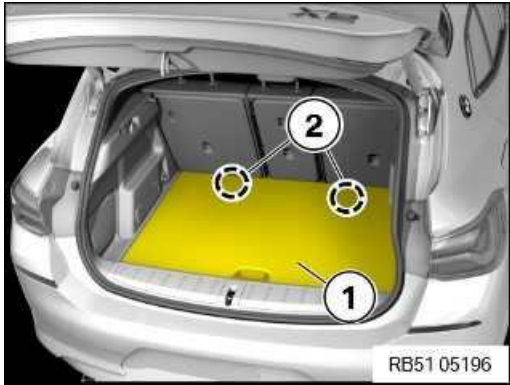


- Check the clamps (1) at the loading edge trim (2) for damage and renew if necessary.



- Insert the loading edge trim (3) in the area of the expanding rivets (1) into the underlying rear luggage compartment trim panel.
- Guide in the loading edge trim (3) under the sealing lip of the seal for the tailgate and clip it in with the clamps (2).
- Secure expanding rivet (1).

#### 43 – Installing the luggage compartment removable panel



- Clip luggage compartment removable panel (1) into latch mechanisms (2) and set down.

#### 44 – Disconnecting all battery earth leads



- See additional information.

### Additional Information

#### Overview of Tightening Torques

##### A-pillar trim panel to body

Used in step [27](#)

|             |             |                   |        |
|-------------|-------------|-------------------|--------|
| M5x42 screw | Renew screw | Tightening torque | 2,2 Nm |
|-------------|-------------|-------------------|--------|

##### Counter support on body

Used in step [29](#)

|       |  |                   |        |
|-------|--|-------------------|--------|
| Screw |  | Tightening torque | 2,5 Nm |
|-------|--|-------------------|--------|

##### Trim panel of luggage compartment capping

Used in step [33](#)

|                    |  |                   |      |
|--------------------|--|-------------------|------|
| Self-tapping screw |  | Tightening torque | 4 Nm |
|--------------------|--|-------------------|------|

##### Trim panel of luggage compartment capping to body

Used in step [33](#)

|               |  |                   |        |
|---------------|--|-------------------|--------|
| Hexagon screw |  | Tightening torque | 1,8 Nm |
|---------------|--|-------------------|--------|

##### Lashing eye in luggage compartment

Used in step [34](#) [35](#)

|              |  |                   |       |
|--------------|--|-------------------|-------|
| Bolt M8 x 22 |  | Tightening torque | 21 Nm |
|--------------|--|-------------------|-------|

**End fitting to body**

Used in step 36

|       |              |                   |       |
|-------|--------------|-------------------|-------|
| Screw | Renew screw. | Tightening torque | 42 Nm |
|-------|--------------|-------------------|-------|

**Toolkit hook and loop tape to body**

Used in step 39

|              |  |                   |      |
|--------------|--|-------------------|------|
| Bolt M6 x 20 |  | Tightening torque | 4 Nm |
|--------------|--|-------------------|------|

**Overview of Special Tools****0 496 569 (00 9 325) Wedge****Common**

Used in step 17 19

|                              |                                                                                                 |
|------------------------------|-------------------------------------------------------------------------------------------------|
| Usage                        | (Panel wedge) From 11/2008 this special tool replaces panel wedge 00 9 317 (different material) |
| Included in the tool or work | 0 490 527                                                                                       |
| Storage location             | Individual                                                                                      |
| Replaced by                  |                                                                                                 |
| In connection with           |                                                                                                 |
| SI-Number                    | 41 01 09 (507)                                                                                  |

**Links****General repair instructions**

Used in step

|                                                                                          |       |
|------------------------------------------------------------------------------------------|-------|
| <a href="#">72 00 ... Safety regulations for handling components with gas generators</a> | 18 27 |
|------------------------------------------------------------------------------------------|-------|

**Repair instructions**

Used in step

|                                                                                                         |      |
|---------------------------------------------------------------------------------------------------------|------|
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 44 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 44 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 44 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 44 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 44 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 44 |
| <a href="#">61 20 900 Disconnecting and connecting the battery earth lead (all battery earth leads)</a> | 1 44 |
| <a href="#">61 20 900 Disconnecting and connecting the battery earth lead (all battery earth leads)</a> | 1 44 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 44 |
| <a href="#">61 20 900 Disconnecting and connecting the battery earth lead (all battery earth leads)</a> | 1 44 |
| <a href="#">61 20 900 Disconnect and connect battery earth lead (Plug-in Hybrid Electric Vehicle)</a>   | 1 44 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 44 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 44 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 44 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 44 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 44 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 44 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 44 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 44 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 44 |
| <a href="#">61 20 900 Disconnecting and connecting the battery earth lead (all battery earth leads)</a> | 1 44 |

|                                                                           |      |
|---------------------------------------------------------------------------|------|
| 61 20 900 Disconnecting and connecting battery earth lead                 | 1 44 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a> | 1 44 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a> | 1 44 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a> | 1 44 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a> | 1 44 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a> | 1 44 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a> | 1 44 |

## 84 10 700 Removing and installing/replacing base plate



### RISK OF DAMAGE

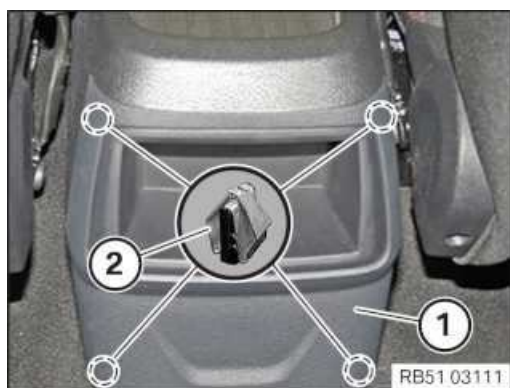
#### Scratches.

Tools and sharp-edged components can cause scratches.

- Protect working area.
- Handle tools and components carefully.

### PRELIMINARY WORK

#### 1 – Removing the rear centre console trim



- Lever out and remove centre console trim (1) with the special tool **0 496 569 (00 9 325)** from the clamps (2).

#### 2 – Removing the centre armrest



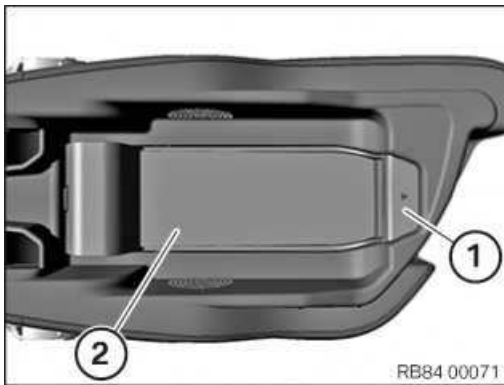
- Release nuts (1) and remove centre armrest upwards.

### MAIN WORK

#### 3 – Removing the base plate



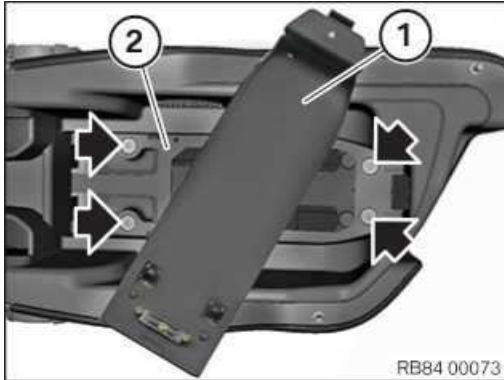
- Expose the access line (2) up to base plate (1).



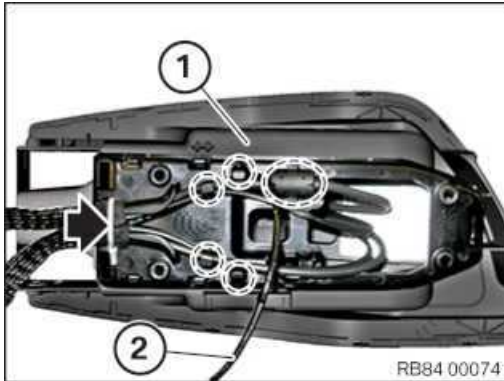
- If necessary, press the button (1) and remove the cover (2).



- Disengage the base plate (1) on both sides from the centre armrest with special tools **0 493 687 (00 9 340)**.

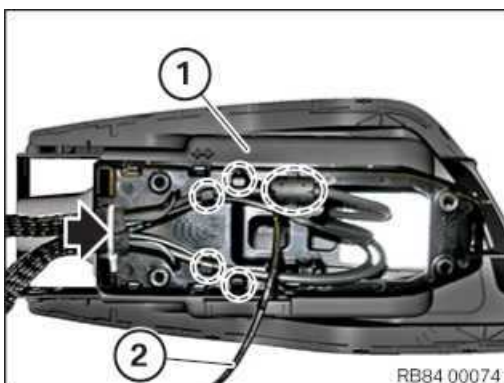


- Turn the base plate (1) away to the side.
- Unscrew the bolts from the upper housing section (2).



- Remove the upper housing section (1) and release cable straps if necessary.
- Unlock and disconnect the cable (2) to the fan.
- Unclip all cables on underside of the upper housing section (1).
- Thread out all cables and remove base plate.

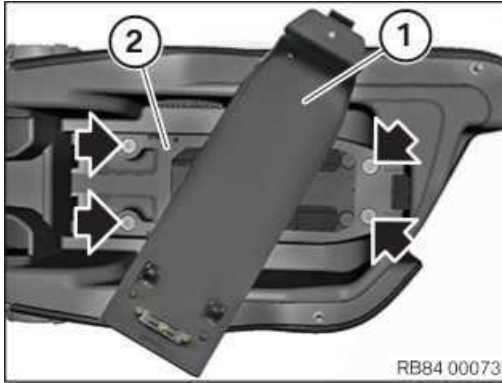
#### 4 – Installing the base plate



- Thread in all cables and base plate.
- Clip in all cables on underside of upper housing section (1).
- If necessary, fasten cables on the upper housing section (1) with cable straps.
- Connect cable (2) to fan.



- Thread the access line (2) through at the centre armrest (1).

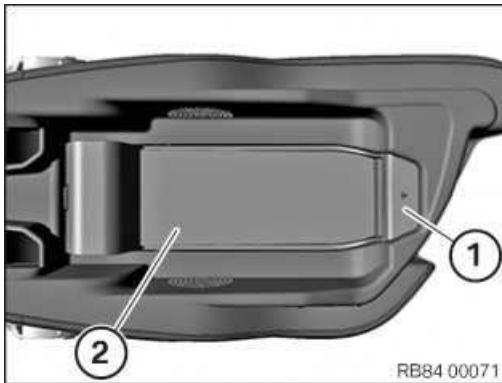


- Tighten screws of upper housing section (2).

#### Upper housing section

| Screw |  |  | 2,7 Nm |
|-------|--|--|--------|
|-------|--|--|--------|

- Fit the base plate (1) in the upper housing section (2).



- If necessary, fit the cover (2) in the base plate (1).

5 – Installing the centre armrest

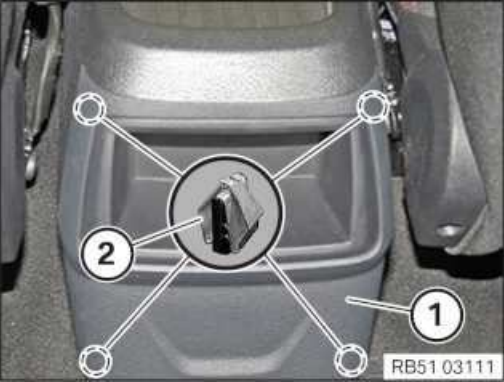


- Install the centre armrest and tighten nuts (1).

Centre armrest to support

|        |  |                   |         |
|--------|--|-------------------|---------|
| Nut M8 |  | Tightening torque | 21,4 Nm |
|--------|--|-------------------|---------|

6 – Installing the rear centre console trim



- Install centre console trim (1) and engage it into clamps (2).

Additional Information

Overview of Tightening Torques

Upper housing section

Used in step 4

|       |  |  |        |
|-------|--|--|--------|
| Screw |  |  | 2,7 Nm |
|-------|--|--|--------|

Centre armrest to support

Used in step 5

|        |  |                   |         |
|--------|--|-------------------|---------|
| Nut M8 |  | Tightening torque | 21,4 Nm |
|--------|--|-------------------|---------|

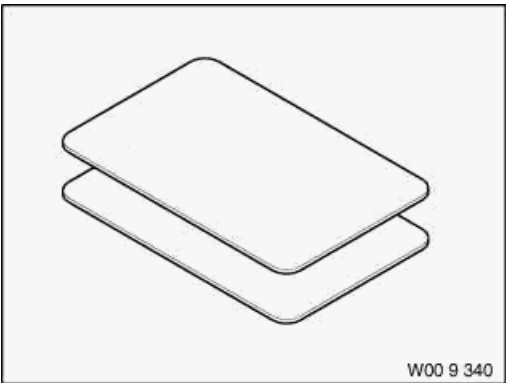
Overview of Special Tools

0 496 569 (00 9 325) Wedge



| Common                       |                                                                                                 | Used in step | 1 |
|------------------------------|-------------------------------------------------------------------------------------------------|--------------|---|
| Usage                        | (Panel wedge) From 11/2008 this special tool replaces panel wedge 00 9 317 (different material) |              |   |
| Included in the tool or work | 0 490 527                                                                                       |              |   |
| Storage location             | Individual                                                                                      |              |   |
| Replaced by                  |                                                                                                 |              |   |
| In connection with           |                                                                                                 |              |   |
| SI-Number                    | 41 01 09 (507)                                                                                  |              |   |

0 493 687 (00 9 340) Removal aid



| Common                       |                                                                     | Used in step | 3 |
|------------------------------|---------------------------------------------------------------------|--------------|---|
| Usage                        | (Removal aid (2 x)) For levering out switch block on driver's door. |              |   |
| Included in the tool or work |                                                                     |              |   |
| Storage location             | C2                                                                  |              |   |
| Replaced by                  |                                                                     |              |   |
| In connection with           |                                                                     |              |   |
| SI-Number                    | 01 15 99 (483)                                                      |              |   |

Consisting of

| Pos | BMW Order number                     | Replaced by | Designation                                                                                 | In Connection with |
|-----|--------------------------------------|-------------|---------------------------------------------------------------------------------------------|--------------------|
| 1   | <a href="#">0 496 289 (00 9 341)</a> |             | <b>Removal aid</b><br>Only available as a set (2 tools) under 00 9 340 (= 83 30 0 493 687). |                    |

## 84 10 520 Replacing emergency battery for the telematics control unit under the headlining (without panorama roof) (after vehicle diagnosis)



### RISK OF DAMAGE

#### Scratches.

Tools and sharp-edged components can cause scratches.

- Protect working area.
- Handle tools and components carefully.

### PRELIMINARY WORK

#### 1 – Disconnecting all battery earth leads



- See additional information.

#### 2 – Remove the door sill cover strip on the rear left and right

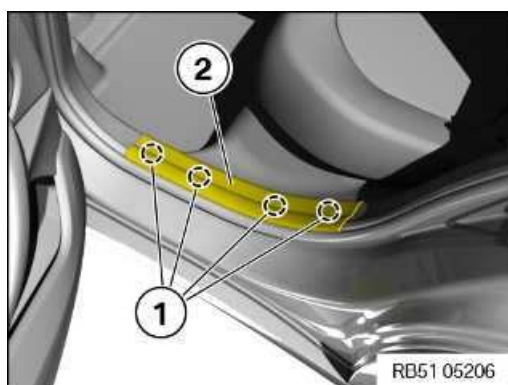


### NOTICE

Description is for left component only. Procedure on the right side is identical.

#### ► Remove rear entrance cover strip

- Unclip the clips (1) of the door sill cover strip (2).
- Remove the door sill cover strip (2).



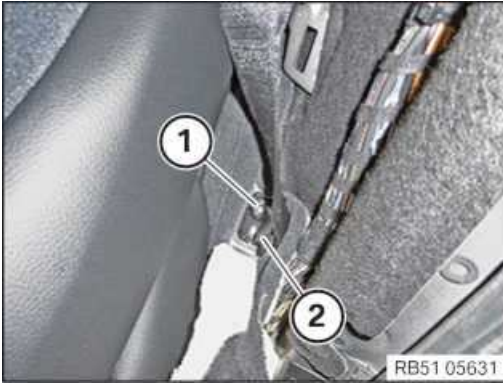
#### 3 – Removing the bottom left and right C-pillar trim panels



### NOTICE

Description is for left component only. Procedure on the right side is identical.

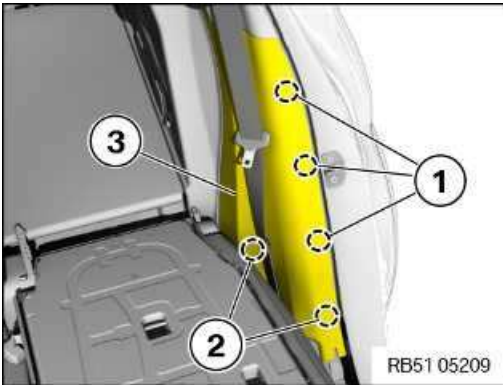
#### ► Remove the bottom C-pillar trim panel



- Fold up the carpet as shown.
- Loosen screw (1).
- Remove end fitting (2).

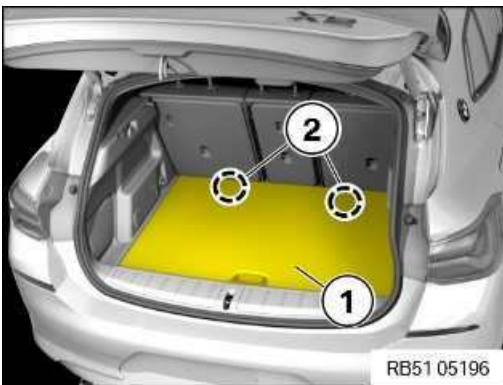


- Release the edge protection (1) in area of the bottom C-pillar trim panel.



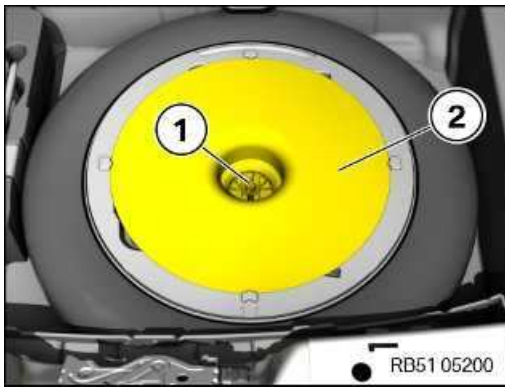
- Clip in the C-pillar trim panel (3) on the bottom with the clamps (1) and the clips (2).
- Detach end fitting and remove the bottom C-pillar trim panel (3).

#### 4 – Removing the luggage compartment removable panel

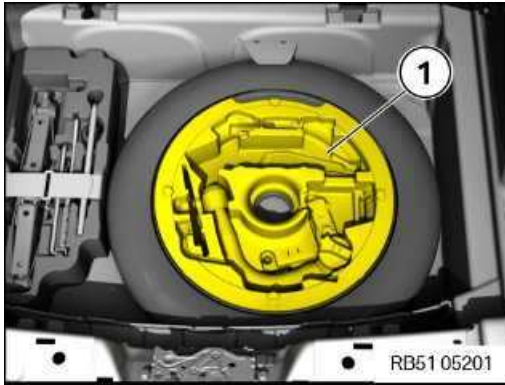


- Raise the luggage compartment removable panel (1) slightly at the handle, detach it from the latch mechanisms (2) and remove it toward the back.

#### 5 – Removing the compact spare wheel



- Loosen screw (1).
- Remove the cover (2).

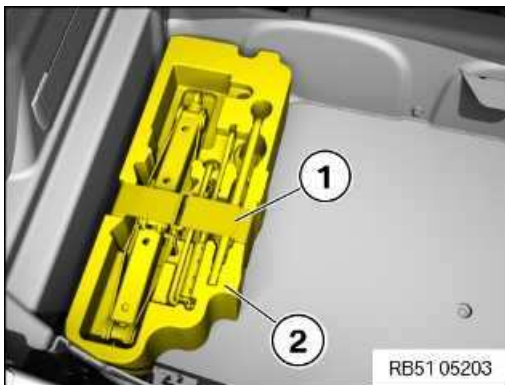


- Remove the oddments tray from the emergency wheel (1).



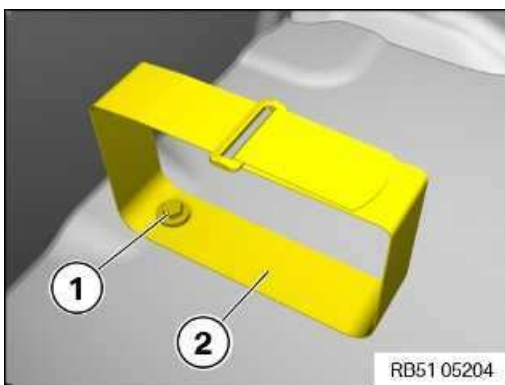
- Remove the emergency wheel (1).

## 6 – Remove the tool kit



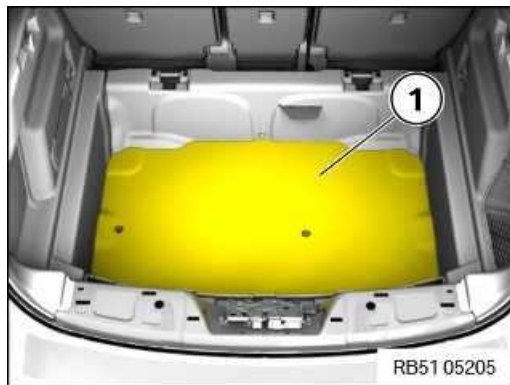
- Open the hook and loop tape (1).
- Remove the tool kit (2).

## 7 – Remove the hook and loop tape for the tool kit



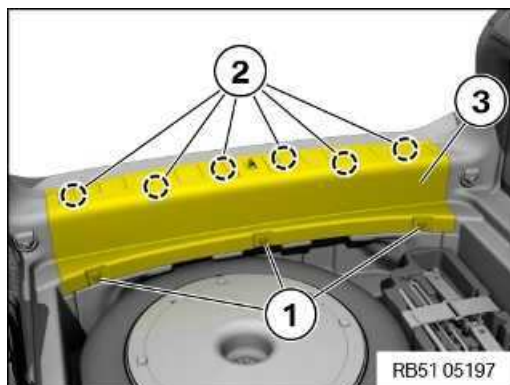
- Loosen screw (1).
- Remove the hook and loop tape (2).

## 8 – Removing the luggage compartment floor trim panel



- Remove the luggage compartment floor trim panel (1) upwards.

## 9 – Removing the loading edge trim

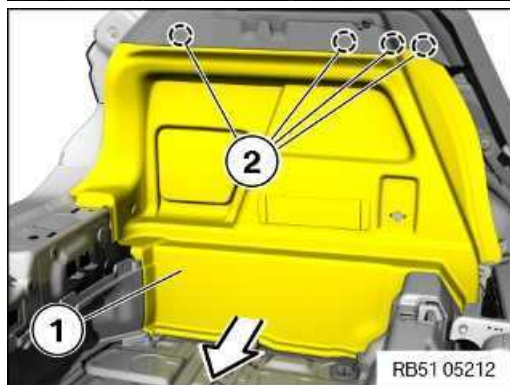


- Loosen the expanding rivet (1).
- Unclip the loading edge trim (3) from the clamps (2) toward the top and remove.

## 10 – Remove luggage compartment wheel arch trim panel on left.



- Unclip covers (1).
- Unscrew the bolts (2) and remove the lashing points (3).

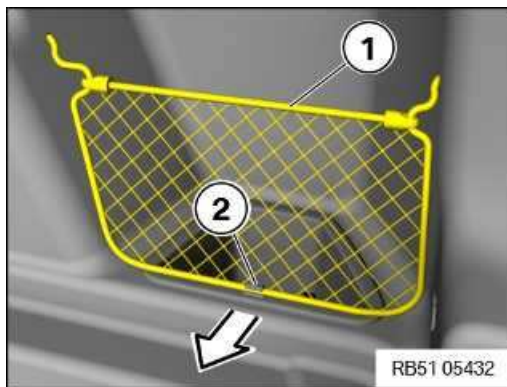


### NOTICE

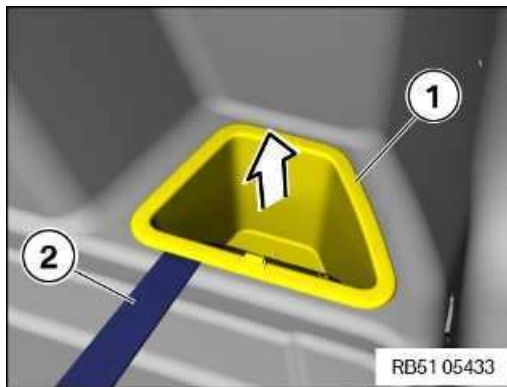
Schematic diagram is for example purposes. Some parts may differ in certain details.

- Pull the luggage compartment wheel arch trim panel (1) on the bottom in the direction of the arrow and guide it out of the guides (2) and the C-pillar trim panel and remove.

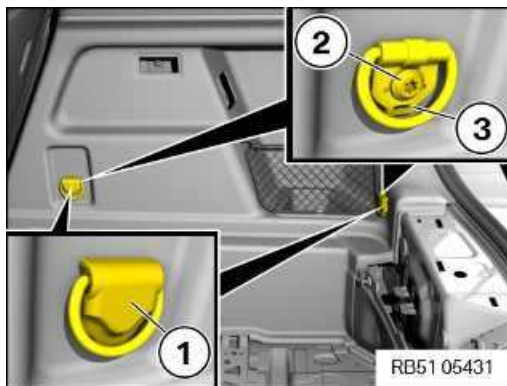
## 11 – Removing right luggage compartment wheel arch trim panel



- Release the storage net (1) from the latch mechanism (2) in the direction of arrow and fold up.



- Remove storage compartment (1) out of the luggage compartment wheel arch trim panel in the direction of arrow using a suitable tool (2).



- Unclip covers (1).
- Unscrew the bolts (2) and remove the lashing points (3).



**NOTICE**

Schematic diagram is for example purposes. Some parts may differ in certain details.

- Pull the luggage compartment wheel arch trim panel (1) on the bottom in the direction of the arrow and guide it out of the guides (2) and the C-pillar trim panel and remove.

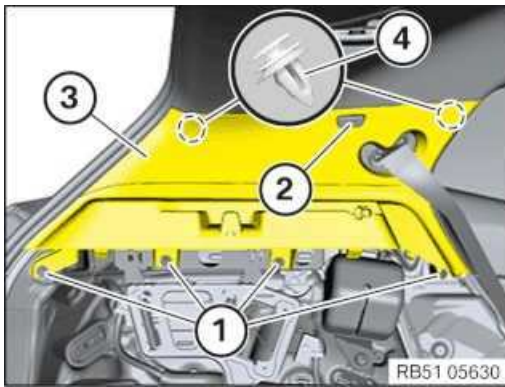
## 12 – Remove the trim panel of the luggage compartment capping on the left and right



### NOTICE

Description is for left component only. Procedure on the right side is identical.

- Remove the trim panel of the luggage compartment capping



- Loosen screws (1).
- Remove the cover (2) with a suitable plastic wedge and unscrew the screw below it.
- Detach the trim panel of the luggage compartment capping (3) from the clips (4).
- Feed out the end fitting and remove the trim panel of the luggage compartment capping (3).

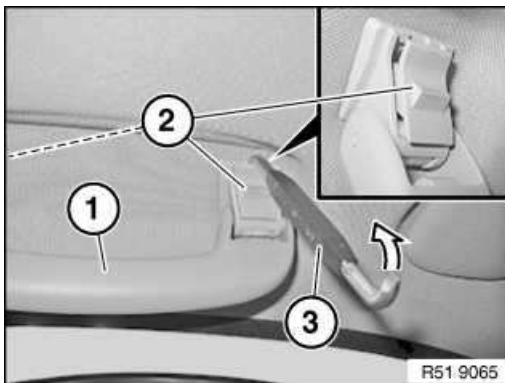
### 13 – Removing all grab handles



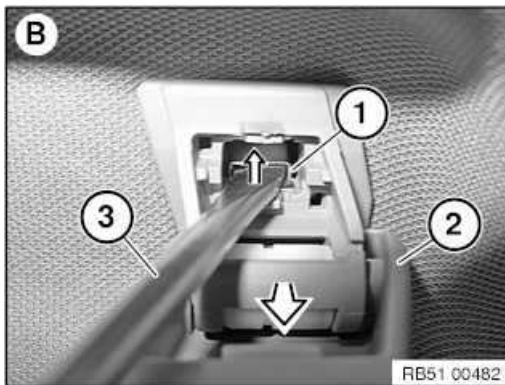
#### NOTICE

The description is for one component only. The procedure is identical for all further components.

#### ► Removing the grab handle

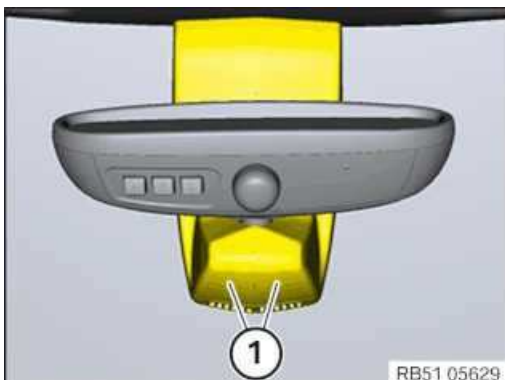


- Expand the grab handle (1) towards the bottom.
- Disengage and remove the locking insert (2) with an angle screwdriver (3) as shown.



- Pull the grab handle (2) slightly to the inside and hold it.
- Use a suitable screwdriver (3) to detach the upper and lower release tabs (1).
- Guide the grab handle (2) out.
- Repeat the operation on the other side of the grab handle (2).

### 14 – Remove the cover on the inside mirror



- Unclip the covers on the interior mirror (1) outward with a suitable plastic wedge in the center and remove.

### 15 – Remove both sun visors



## NOTICE

Description is for left component only. Procedure on the right side is identical.

### ► Remove sun visor



- Pull out the cover (1).
- Detach the sun visor (2) from the counter support .
- Disengage the sun visor (2) in front to the bottom and thread it out of the headlining at the rear.
- Unlock associated plug connection and disconnect.

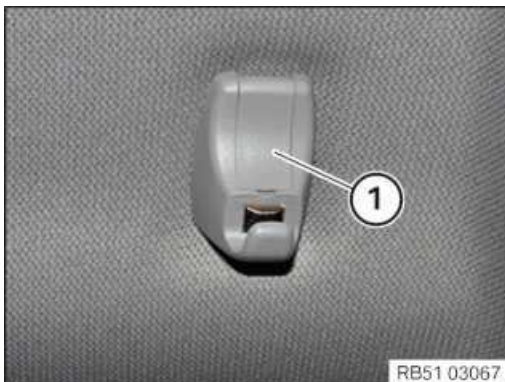
## 16 – Removing counter supports for sun visor on left and right



## NOTICE

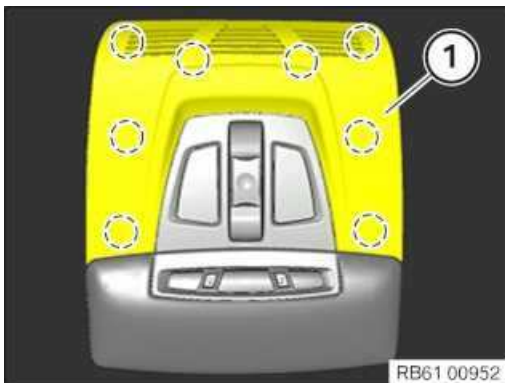
Description is for left component only. Procedure on the right side is identical.

### ► Remove the counter support for the sun visor

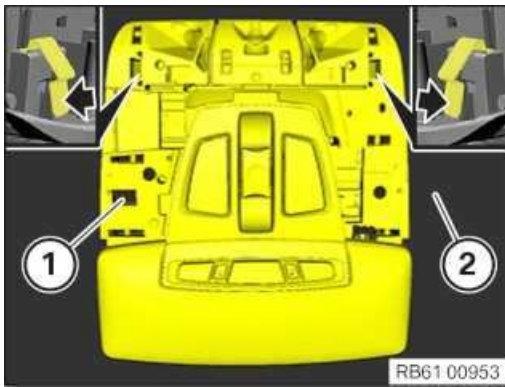


- Open the cover (1) and release the screw underneath.
- Remove the counter support downward.

## 17 – Remove the roof function centre



- Carefully unclip and remove the trim (1) with the special tool **0 496 569 (00 9 325)**.



- Unlock the left/right retaining lugs using a screwdriver in direction of the arrow.
- Remove the roof function centre (1) from the headlining (2).
- Unlock and disconnect associated connector.

## 18 – Removing the left and right A-pillar trim panels



### NOTICE

Description is for left component only. Procedure on the right side is identical.

### ► Remove the A-pillar trim panel



### WARNING

#### Airbag unit.

#### **Danger! Life-threatening injuries!**

- Before performing any work on the airbag, always disconnect the battery earth lead from the battery.
- Airbag unit may only be set down with the cushion (airbag itself) facing upwards.
- For additional information see: 72 00 ... Safety regulations on handling airbag system components/gas generators



### WARNING

#### Pyrotechnic components.

#### **Danger! Life-threatening injuries!**

- All work on pyrotechnic parts may be carried out by technically experienced and appropriately trained personnel only.
- Replace any damaged part or ones that have been dropped.
- For additional information see: 72 00 Safety regulations on handling components with gas generators.



- Unclip cover (1) and unscrew the screw below it.
- Release the A-pillar trim panel (2) from the clips (3) and guide out upwards.

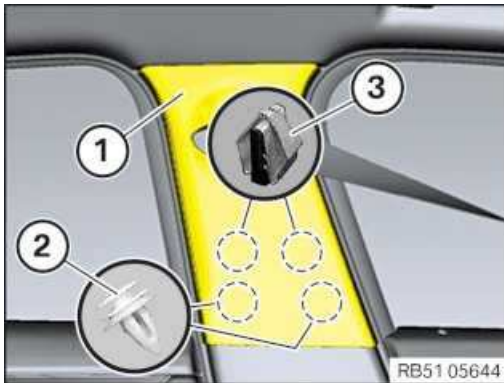
## 19 – Removing the B-pillar trim panels at top left and right



## NOTICE

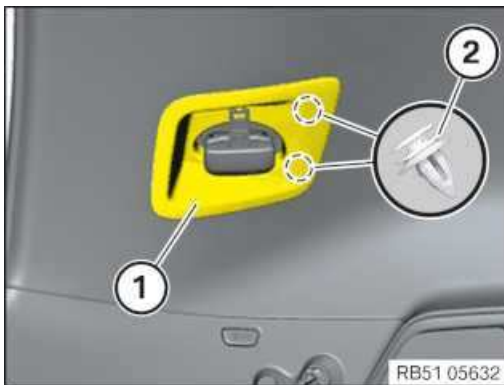
Description is for left component only. Procedure on the right side is identical.

### ► Partially removing upper B-pillar trim panel



- Carefully release the B-pillar trim panel (1) from the clips (2) and the clamps (3) with the special tool **0 496 569 (00 9 325)** and guide it out of the headlining in a downwards direction.

### 20 – Remove the belt feed trim



- Unclip the belt feed trim (1) at the clips (2) and slide it forward and out of the headliner.
- Slide out the seat belt and remove the belt feed trim (1).

### 21 – Lower roofliner

#### Prerequisite

The front seats have been fully adjusted towards the bottom.

The front seat backrests have been fully adjusted towards the rear.

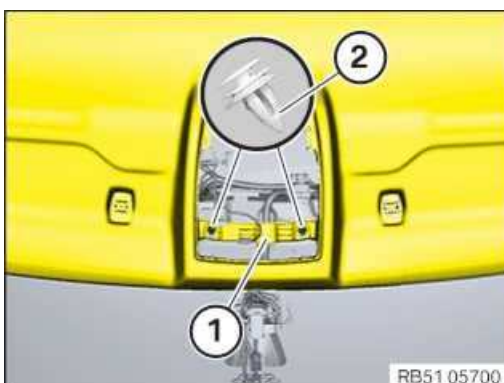


## RISK OF DAMAGE

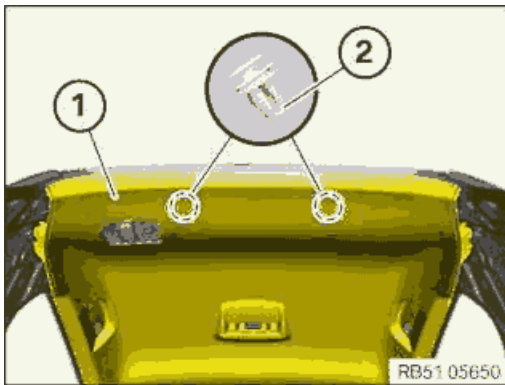
**Fold the headlining.**

**If the headlining is folded, it may have to be replaced.**

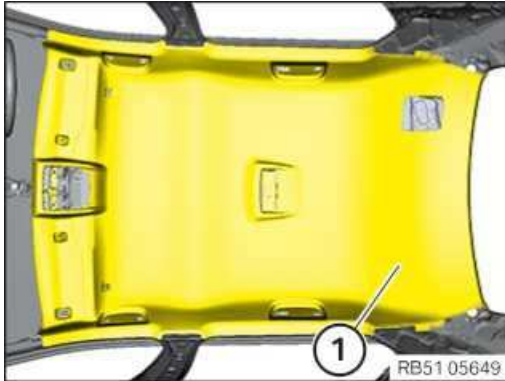
- Carry out tasks with a second person to assist.
- Support the headlining at the front and back.



- Loosen the frame (1) at the clips (2).
- If necessary, loosen the cable clip from the frame (1).



- Carefully release the headlining (1) at the clips (2).



- Carefully guide out the headlining (1) at the respective edge protection and place it onto the seats in the vehicle.

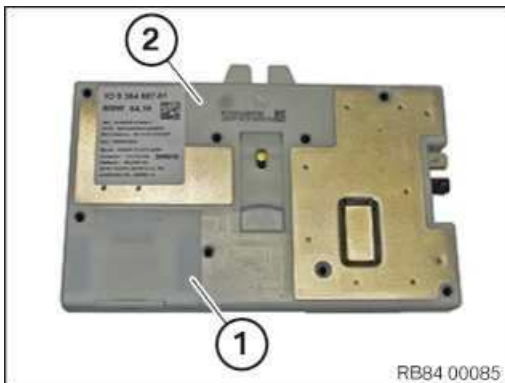
## MAIN WORK

### 22 – Replace the emergency battery of the telematics control unit

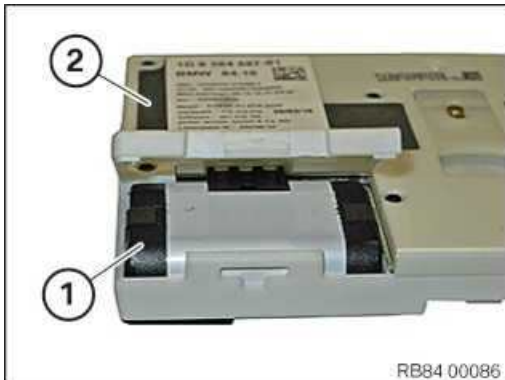


#### NOTICE

For a better overview the removed condition is shown here.



- Unlock and open battery compartment (1) on telematic control unit (2).



- Remove the emergency battery (1) from the battery compartment.
  - Replace emergency battery (1).
- Parts:** Emergency battery
- Close battery compartment on telematics control unit (2).

## POSTPROCESSES

### 23 – Install the headlining (lowered)

## Prerequisite

The front seats have been fully adjusted towards the bottom.

The front seat backrests have been fully adjusted towards the rear.

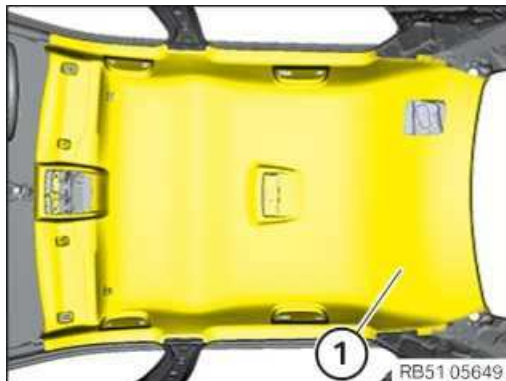


### RISK OF DAMAGE

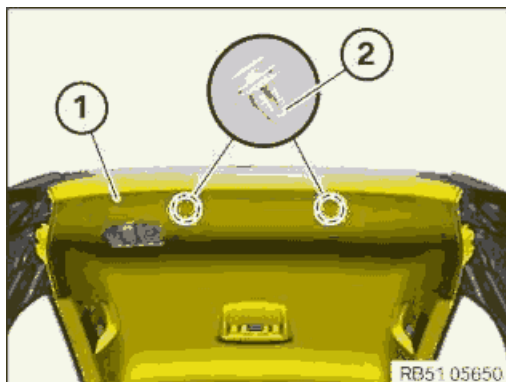
**Fold the headlining.**

**If the headlining is folded, it may have to be replaced.**

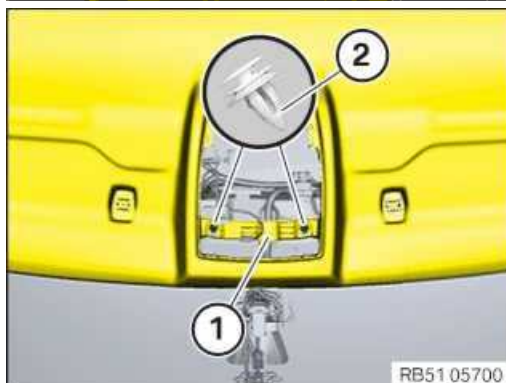
- Carry out tasks with a second person to assist.
- Support the headlining at the front and back.



- Install the headlining (1) and carefully insert it at the respective edge protection.

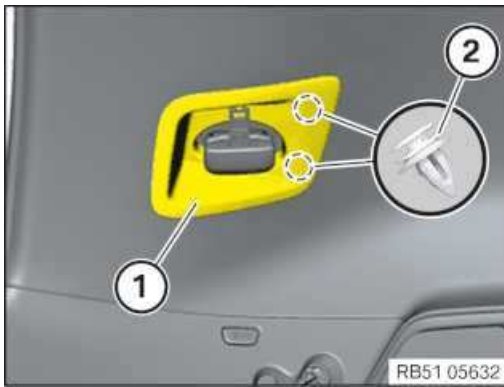


- Clip in the headlining (1) using the clips (2).



- Clip in the frame (1) with the clips (2).
- If necessary, attach the cable clip onto the frame (1).

## 24 – Install the belt feed trim



- Feed in the seat belt on the belt feed trim (1).
- Feed in the belt feed trim (1) toward the rear on the headliner and clip in at the clips (2).

## 25 – Installing the top left and right B-pillar trim panels



### NOTICE

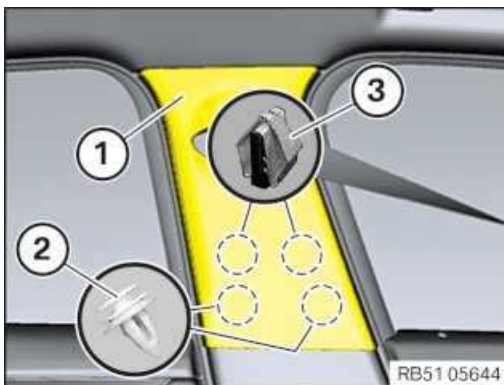
Description is for left component only. Procedure on the right side is identical.

### ► Partially installing upper B-pillar trim panel



### TECHNICAL INFORMATION

Latch mechanisms, guides and mounting elements must not be damaged or missing.



- Insert the B-pillar trim panel (1) into the headlining and lock it at the clips (2) and the clamps (3).
- Make sure that the B-pillar trim panel (1) is correctly positioned at the respective edge protection.

## 26 – Installing the left and right A-pillar trim panels



### NOTICE

Description is for left component only. Procedure on the right side is identical.

### ► Install the A-pillar trim panel



### WARNING

**Airbag unit.**

#### **Danger! Life-threatening injuries!**

- Before performing any work on the airbag, always disconnect the battery earth lead from the battery.
- Airbag unit may only be set down with the cushion (airbag itself) facing upwards.
- For additional information see: 72 00 ... Safety regulations on handling airbag system components/gas generators



## WARNING

### Pyrotechnic components.

#### Danger! Life-threatening injuries!

- All work on pyrotechnic parts may be carried out by technically experienced and appropriately trained personnel only.
- Replace any damaged part or ones that have been dropped.
- For additional information see: 72 00 Safety regulations on handling components with gas generators.



## TECHNICAL INFORMATION

Latch mechanisms, guides and mounting elements must not be damaged or missing.



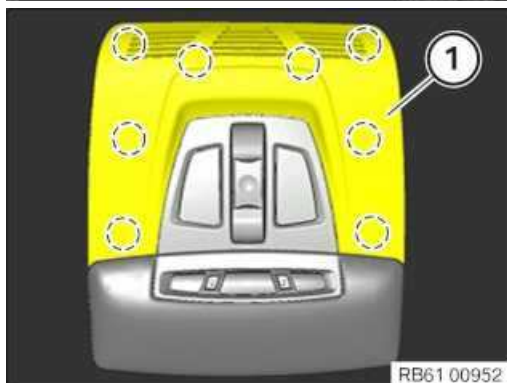
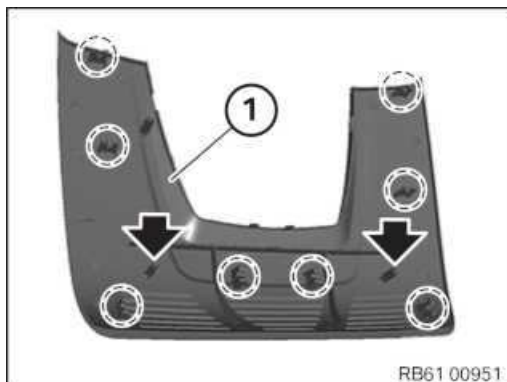
- Thread in the A-pillar trim panel (2) and clip it in at the clips (3).
  - Renew screw.
- Parts:** Screw
- Tighten down screw.

#### A-pillar trim panel to body

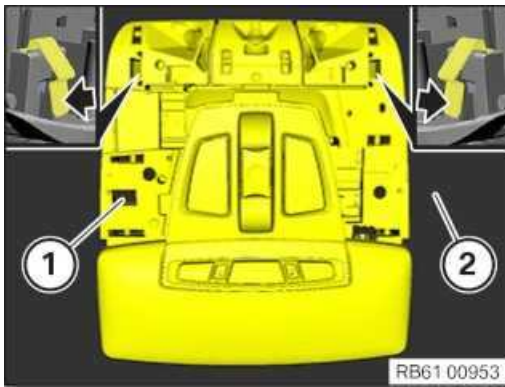
| M5x42 screw | Renew screw | Tightening torque | 2,2 Nm |
|-------------|-------------|-------------------|--------|
|-------------|-------------|-------------------|--------|

- Clip in the cover (1).

### 27 – Install the roof function centre



- The retaining lugs and guides on the trim (1) must not be damaged or missing.
- Carefully engage the trim (1) in the roof function centre.



#### NOTICE

To provide a better overview: Schematic diagram with partially hidden components.

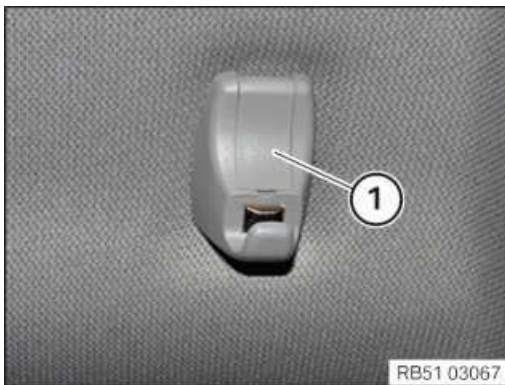
- Connect associated connector.
- Join the roof function centre (1) to the headlining (2).

### 28 – Install the counter supports for the sun visor on left and right



#### NOTICE

Description is for left component only. Procedure on the right side is identical.



#### ► Install the counter support for the sun visor

- Install the counter support.
- Tighten screw and close the cover (1).

#### Counter support on body

| Screw |  | Tightening torque | 2,5 Nm |
|-------|--|-------------------|--------|
|-------|--|-------------------|--------|

### 29 – Install both sun visors



#### NOTICE

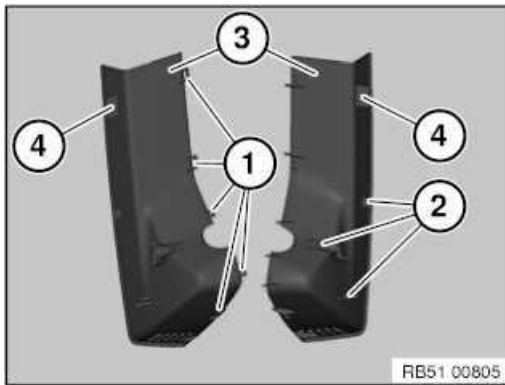
Description is for left component only. Procedure on the right side is identical.



#### ► Install the sun visor

- Connect the sun visor (2) with the corresponding connector.
- Guide the sun visor (2) into the headlining.
- Use cover (1).
- Attach the sun visor (2) on the counter support.

### 30 – Install the cover on the inside mirror

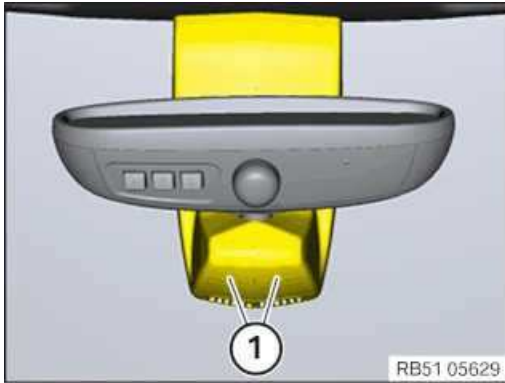


- Check the latch mechanisms (1) and guides (2) on the two covers (3) for damage, renew if necessary.

The latch mechanisms (1) and guides (2) must not be damaged.

- Check the spacers (4).

The spacers (4) must not be damaged or missing.



- Install covers on the interior mirror (1) clip together.

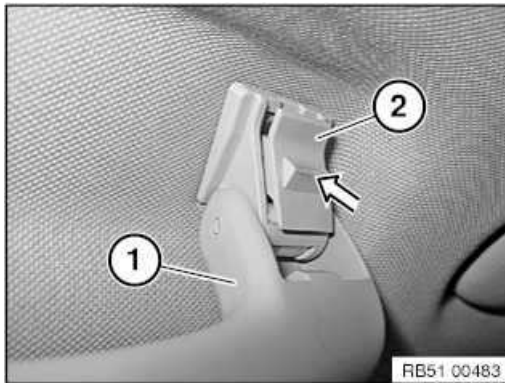
### 31 – Installing all grab handles



#### NOTICE

The description is for one component only. The procedure is identical for all further components.

#### ► Installing the grab handle



- Insert the grab handle (1) into body.
- Correctly clamp in the grab handle (1), as otherwise the locking inserts (2) on the grab handle (1) cannot correctly engage.
- Engage the locking inserts (2) on both sides of the grab handle (1).

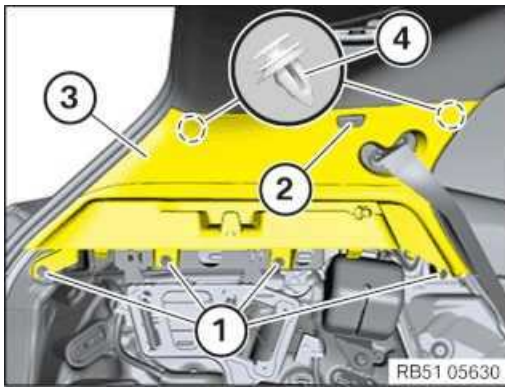
### 32 – Install the trim panel for left and right the luggage compartment capping



#### NOTICE

Description is for left component only. Procedure on the right side is identical.

#### ► Install the trim panel for the luggage compartment capping



- Install trim panel of the luggage compartment capping (3) and thread in the end fitting.
- Clip in the trim panel of the luggage compartment capping (3) at the clips (4).
- Tighten screw and mount cover (2).

#### Trim panel of luggage compartment capping

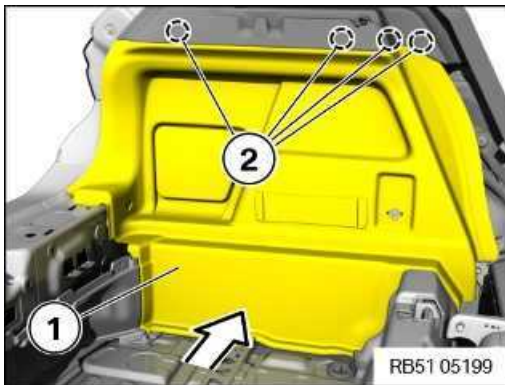
|                    |  |                   |      |
|--------------------|--|-------------------|------|
| Self-tapping screw |  | Tightening torque | 4 Nm |
|--------------------|--|-------------------|------|

- Tighten the screws (1).

#### Trim panel of luggage compartment capping to body

|               |  |                   |        |
|---------------|--|-------------------|--------|
| Hexagon screw |  | Tightening torque | 1,8 Nm |
|---------------|--|-------------------|--------|

### 33 – Install luggage compartment wheel arch trim panel at left



#### NOTICE

Schematic diagram is for example purposes. Some parts may differ in certain details.

- Push the luggage compartment wheel arch trim panel (1) down in the direction of the arrow and feed it into the guides (2) and under the C-pillar trim bottom.

- Position the lashing eyes (3) and tighten the screws (2).

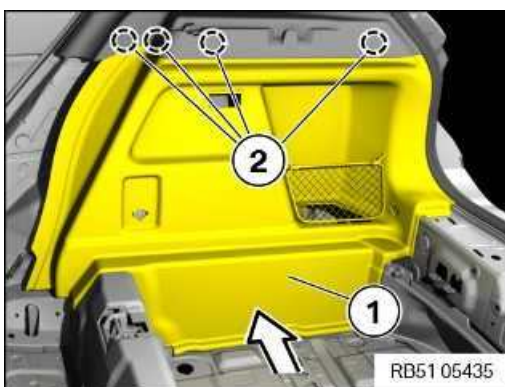
#### Lashing eye in luggage compartment

|              |  |                   |       |
|--------------|--|-------------------|-------|
| Bolt M8 x 22 |  | Tightening torque | 21 Nm |
|--------------|--|-------------------|-------|

- Clip in the covers (1).



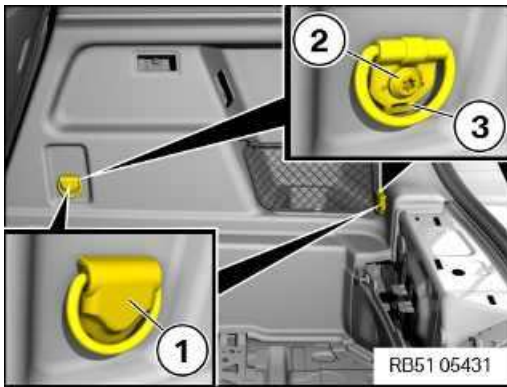
### 34 – Installing the luggage compartment wheel arch trim panel on the right



#### NOTICE

Schematic diagram is for example purposes. Some parts may differ in certain details.

- Press luggage compartment wheel arch trim panel (1) down in direction of arrow and feed into the guides (2) and under the bottom C-pillar trim panel.



- Position the lashing eyes (3) and tighten the screws (2).

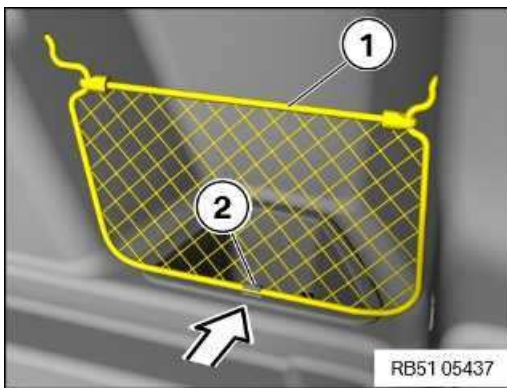
#### Lashing eye in luggage compartment

|              |  |                   |       |
|--------------|--|-------------------|-------|
| Bolt M8 x 22 |  | Tightening torque | 21 Nm |
|--------------|--|-------------------|-------|

- Clip in the covers (1).



- Install the storage compartment (1) in the luggage compartment wheel arch trim panel in direction of arrow.



- Clip storage net (1) into latch mechanisms (2) in direction of arrow.

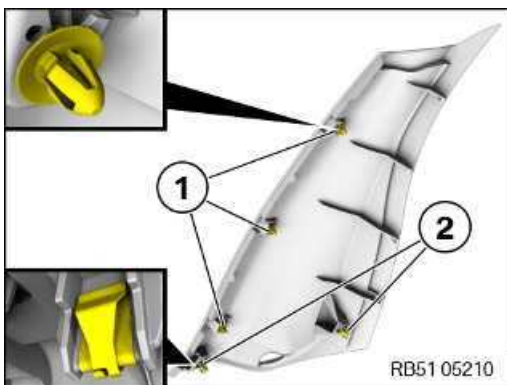
### 35 – Install C-pillar trim panel at bottom left and right



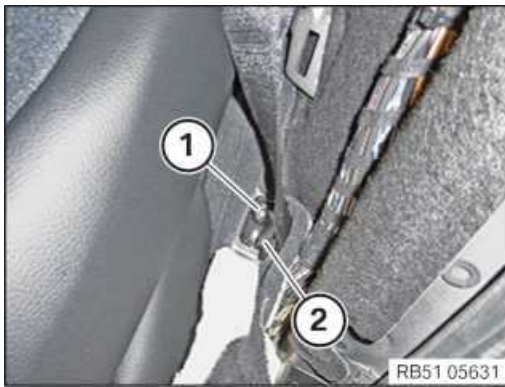
#### NOTICE

Description is for left component only. Procedure on the right side is identical.

#### ► Install the bottom C-pillar trim panel



- Check clips (1) for damage, and replace if necessary.
- Check the clamps (2) for damage, and replace if necessary.

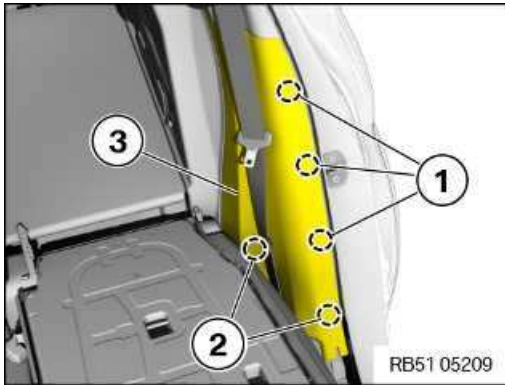


- Insert the end fitting (2) through the C-pillar trim panel.
- Mount the end fitting (2) and tighten the screw (1).

#### End fitting to body

| Screw | Renew screw. | Tightening torque | 42 Nm |
|-------|--------------|-------------------|-------|
|-------|--------------|-------------------|-------|

- Install the carpet correctly.



- Clip in the C-pillar trim panel on the bottom (3) with the clamps (2) and the clips (1).



- Position the edge protection (1) correctly in the area of the bottom C-pillar trim.

### 36 – Install the door sill cover strip on the rear left and right

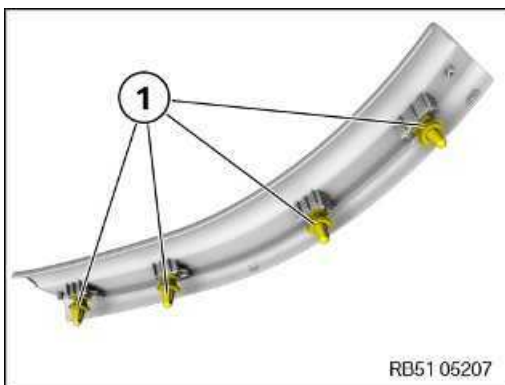


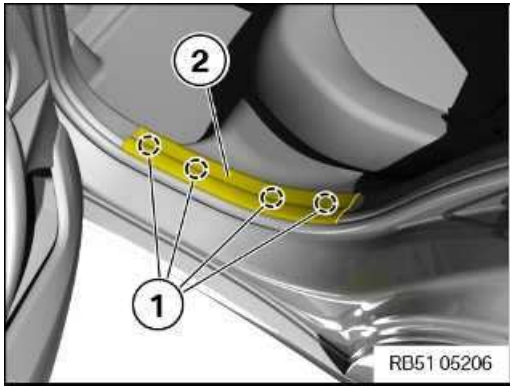
#### NOTICE

Description is for left component only. Procedure on the right side is identical.

#### ► Installing the rear door sill cover strip

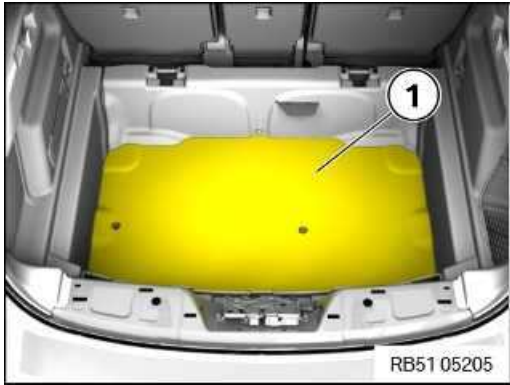
- Check the clips (1) for damage and renew where required.





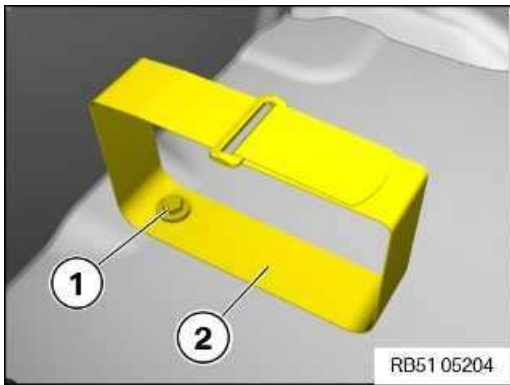
- Clip in the door sill cover strip (2) with the clips (1).

### 37 – Installing the luggage compartment floor trim panel



- Position the luggage compartment floor trim panel (1).

### 38 – Inserting the Velcro fastener for the toolkit

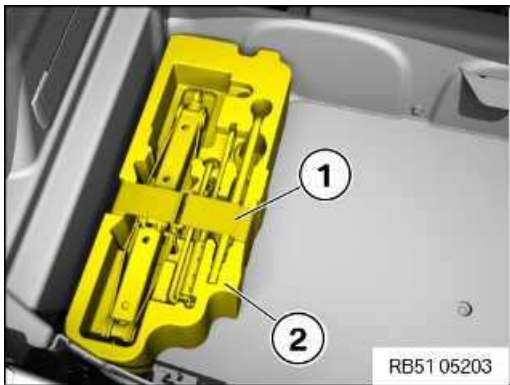


- Insert Velcro fastener (2).
- Tighten down screw (1).

#### Toolkit hook and loop tape to body

|              |  |                   |      |
|--------------|--|-------------------|------|
| Bolt M6 x 20 |  | Tightening torque | 4 Nm |
|--------------|--|-------------------|------|

### 39 – Install the tool kit

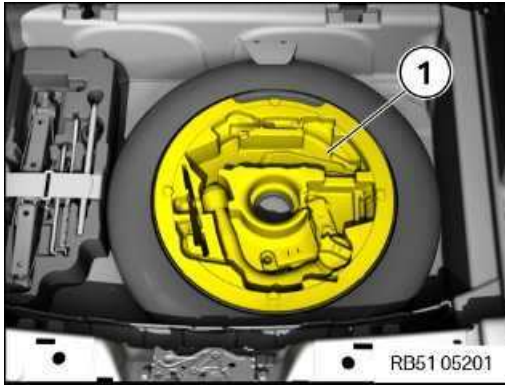


- Install the tool kit (2).
- Close the hook and loop tape (1).

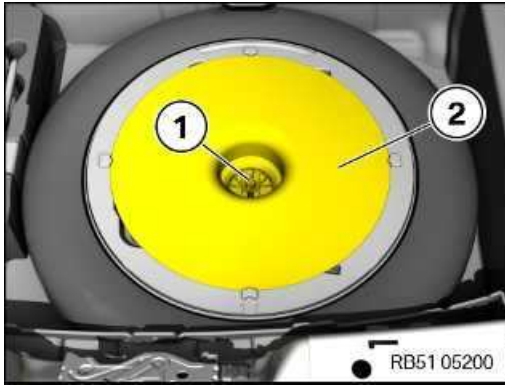
### 40 – Install the emergency wheel



- Insert compact spare wheel(1).

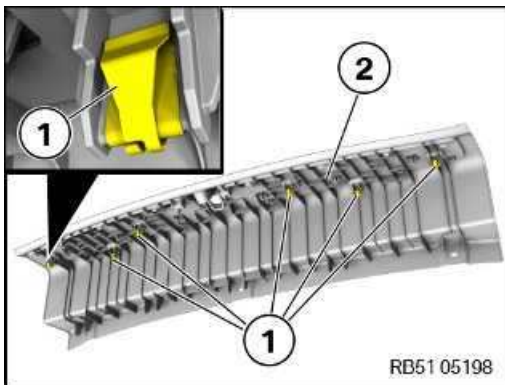


- Insert oddments tray into the compact spare wheel (1).

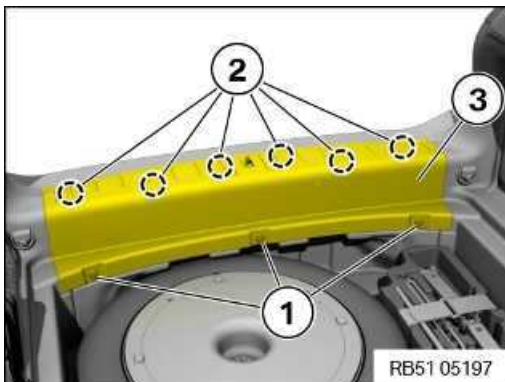


- Insert the lid (2).
- Hand-tighten the bolt (1).

#### 41 – Installing loading edge trim

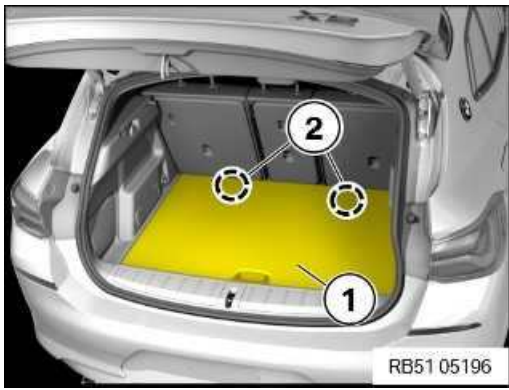


- Check the clamps (1) at the loading edge trim (2) for damage and renew if necessary.



- Insert the loading edge trim (3) in the area of the expanding rivets (1) into the underlying rear luggage compartment trim panel.
- Guide in the loading edge trim (3) under the sealing lip of the seal for the tailgate and clip it in with the clamps (2).
- Secure expanding rivet (1).

#### 42 – Installing the luggage compartment removable panel



- Clip luggage compartment removable panel (1) into latch mechanisms (2) and set down.

#### 43 – Disconnecting all battery earth leads



- See additional information.

### Additional Information

#### Overview of Tightening Torques

##### A-pillar trim panel to body Used in step [26](#)

|             |             |                   |        |
|-------------|-------------|-------------------|--------|
| M5x42 screw | Renew screw | Tightening torque | 2,2 Nm |
|-------------|-------------|-------------------|--------|

##### Counter support on body Used in step [28](#)

|       |  |                   |        |
|-------|--|-------------------|--------|
| Screw |  | Tightening torque | 2,5 Nm |
|-------|--|-------------------|--------|

##### Trim panel of luggage compartment capping Used in step [32](#)

|                    |  |                   |      |
|--------------------|--|-------------------|------|
| Self-tapping screw |  | Tightening torque | 4 Nm |
|--------------------|--|-------------------|------|

##### Trim panel of luggage compartment capping to body Used in step [32](#)

|               |  |                   |        |
|---------------|--|-------------------|--------|
| Hexagon screw |  | Tightening torque | 1,8 Nm |
|---------------|--|-------------------|--------|

##### Lashing eye in luggage compartment Used in step [33](#) [34](#)

|              |  |                   |       |
|--------------|--|-------------------|-------|
| Bolt M8 x 22 |  | Tightening torque | 21 Nm |
|--------------|--|-------------------|-------|

##### End fitting to body Used in step [35](#)

|       |              |                   |       |
|-------|--------------|-------------------|-------|
| Screw | Renew screw. | Tightening torque | 42 Nm |
|-------|--------------|-------------------|-------|

##### Toolkit hook and loop tape to body Used in step [38](#)

|              |  |                   |      |
|--------------|--|-------------------|------|
| Bolt M6 x 20 |  | Tightening torque | 4 Nm |
|--------------|--|-------------------|------|

### Overview of Special Tools



## Common

Used in step 17 19

|                              |                                                                                                 |
|------------------------------|-------------------------------------------------------------------------------------------------|
| Usage                        | (Panel wedge) From 11/2008 this special tool replaces panel wedge 00 9 317 (different material) |
| Included in the tool or work | 0 490 527                                                                                       |
| Storage location             | Individual                                                                                      |
| Replaced by                  |                                                                                                 |
| In connection with           |                                                                                                 |
| SI-Number                    | 41 01 09 (507)                                                                                  |

## Links

| General repair instructions                                                                             | Used in step |
|---------------------------------------------------------------------------------------------------------|--------------|
| <a href="#">72 00 ... Safety regulations for handling components with gas generators</a>                | 18 26        |
| Repair instructions                                                                                     | Used in step |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 43         |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 43         |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 43         |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 43         |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 43         |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 43         |
| <a href="#">61 20 900 Disconnecting and connecting the battery earth lead (all battery earth leads)</a> | 1 43         |
| <a href="#">61 20 900 Disconnecting and connecting the battery earth lead (all battery earth leads)</a> | 1 43         |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 43         |
| <a href="#">61 20 900 Disconnecting and connecting the battery earth lead (all battery earth leads)</a> | 1 43         |
| <a href="#">61 20 900 Disconnect and connect battery earth lead (Plug-in Hybrid Electric Vehicle)</a>   | 1 43         |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 43         |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 43         |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 43         |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 43         |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 43         |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 43         |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 43         |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 43         |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 43         |
| <a href="#">61 20 900 Disconnecting and connecting the battery earth lead (all battery earth leads)</a> | 1 43         |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 43         |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 43         |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 43         |

|                                                                           |      |
|---------------------------------------------------------------------------|------|
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a> | 1 43 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a> | 1 43 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a> | 1 43 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a> | 1 43 |

## 84 10 522 Replacing the telematics control unit emergency battery under the headlining (with panorama glass roof) (after vehicle diagnosis)



### RISK OF DAMAGE

#### Scratches.

Tools and sharp-edged components can cause scratches.

- Protect working area.
- Handle tools and components carefully.

### PRELIMINARY WORK

#### 1 – Disconnecting all battery earth leads



- See additional information.

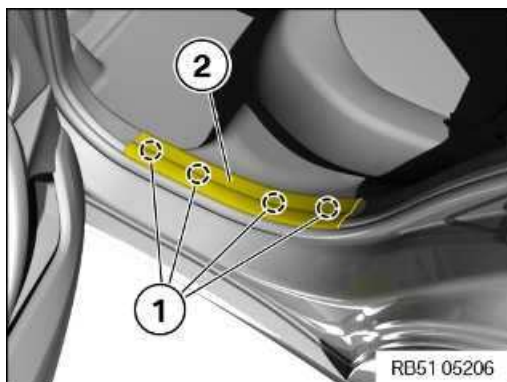
#### 2 – Remove the door sill cover strip on the rear left and right



### NOTICE

Description is for left component only. Procedure on the right side is identical.

#### ► Remove rear entrance cover strip



- Unclip the clips (1) of the door sill cover strip (2).
- Remove the door sill cover strip (2).

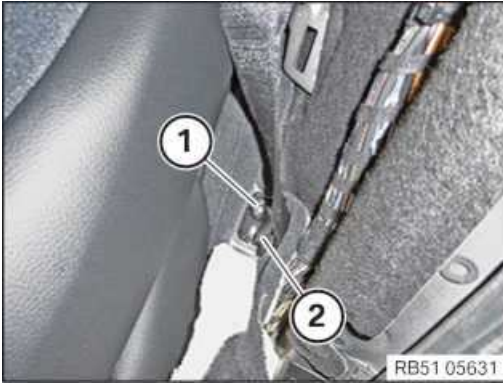
#### 3 – Removing the bottom left and right C-pillar trim panels



### NOTICE

Description is for left component only. Procedure on the right side is identical.

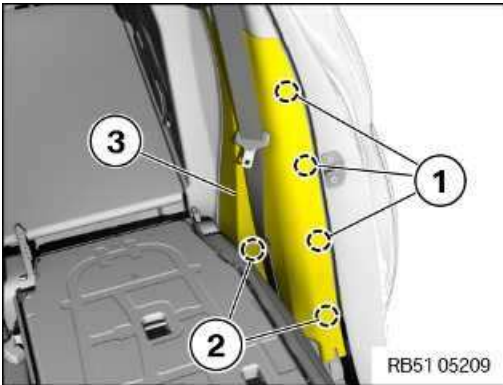
#### ► Remove the bottom C-pillar trim panel



- Fold up the carpet as shown.
- Loosen screw (1).
- Remove end fitting (2).

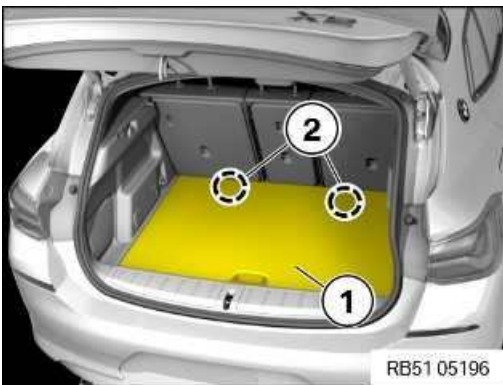


- Release the edge protection (1) in area of the bottom C-pillar trim panel.



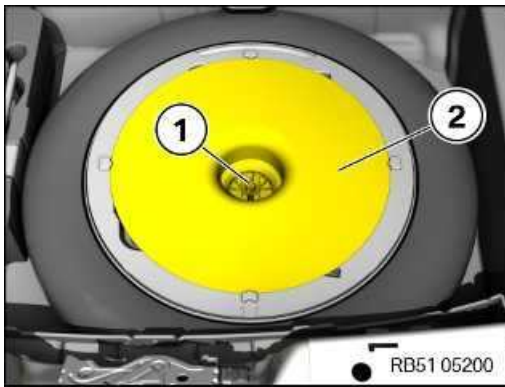
- Clip in the C-pillar trim panel (3) on the bottom with the clamps (1) and the clips (2).
- Detach end fitting and remove the bottom C-pillar trim panel (3).

#### 4 – Removing the luggage compartment removable panel

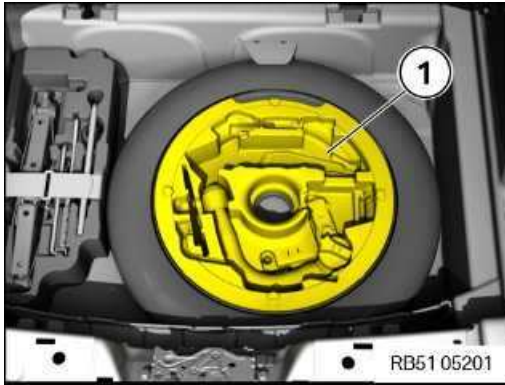


- Raise the luggage compartment removable panel (1) slightly at the handle, detach it from the latch mechanisms (2) and remove it toward the back.

#### 5 – Removing the compact spare wheel



- Loosen screw (1).
- Remove the cover (2).

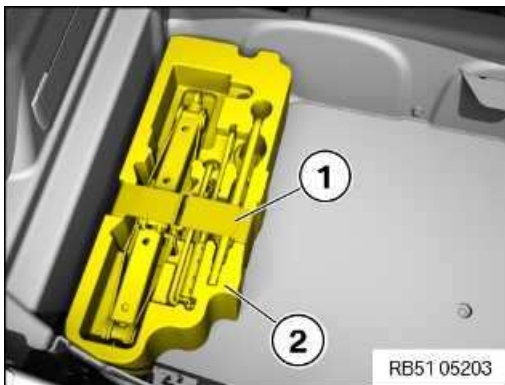


- Remove the oddments tray from the emergency wheel (1).



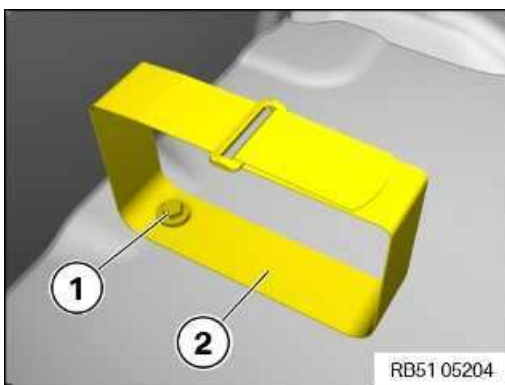
- Remove the emergency wheel (1).

## 6 – Remove the tool kit



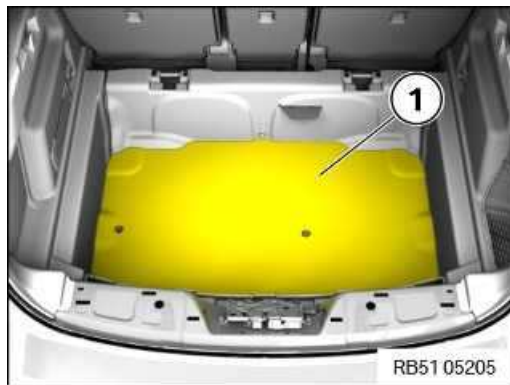
- Open the hook and loop tape (1).
- Remove the tool kit (2).

## 7 – Remove the hook and loop tape for the tool kit



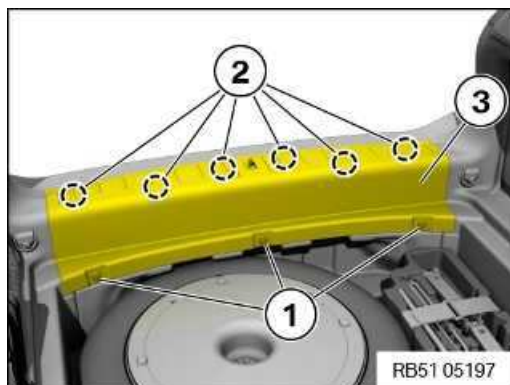
- Loosen screw (1).
- Remove the hook and loop tape (2).

## 8 – Removing the luggage compartment floor trim panel



- Remove the luggage compartment floor trim panel (1) upwards.

## 9 – Removing the loading edge trim

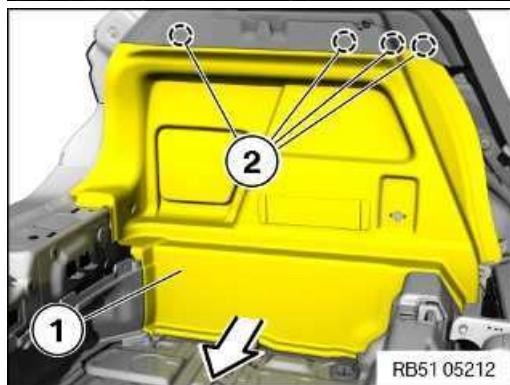


- Loosen the expanding rivet (1).
- Unclip the loading edge trim (3) from the clamps (2) toward the top and remove.

## 10 – Remove luggage compartment wheel arch trim panel on left.



- Unclip covers (1).
- Unscrew the bolts (2) and remove the lashing points (3).

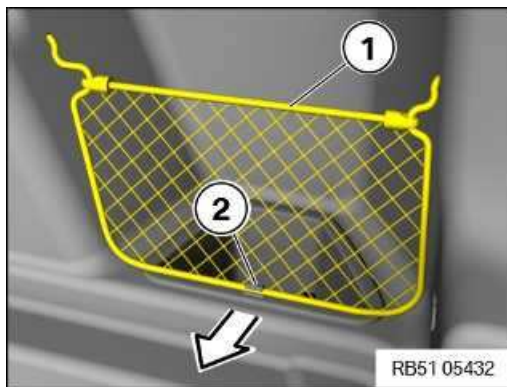


### NOTICE

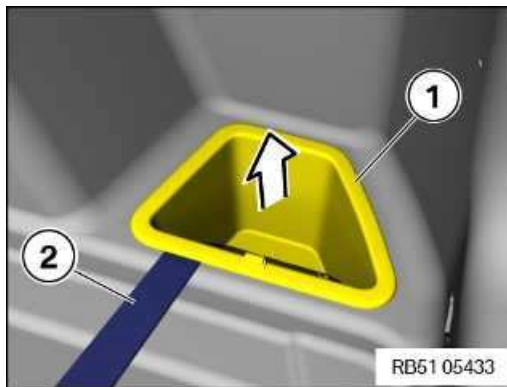
Schematic diagram is for example purposes. Some parts may differ in certain details.

- Pull the luggage compartment wheel arch trim panel (1) on the bottom in the direction of the arrow and guide it out of the guides (2) and the C-pillar trim panel and remove.

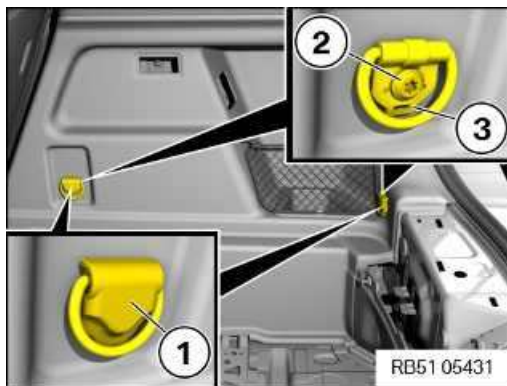
## 11 – Removing right luggage compartment wheel arch trim panel



- Release the storage net (1) from the latch mechanism (2) in the direction of arrow and fold up.



- Remove storage compartment (1) out of the luggage compartment wheel arch trim panel in the direction of arrow using a suitable tool (2).



- Unclip covers (1).
- Unscrew the bolts (2) and remove the lashing points (3).



**NOTICE**

Schematic diagram is for example purposes. Some parts may differ in certain details.

- Pull the luggage compartment wheel arch trim panel (1) on the bottom in the direction of the arrow and guide it out of the guides (2) and the C-pillar trim panel and remove.

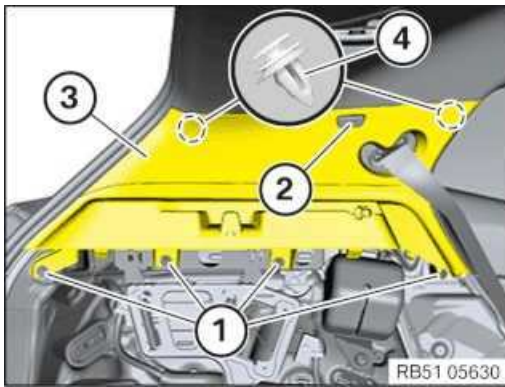
## 12 – Remove the trim panel of the luggage compartment capping on the left and right



### NOTICE

Description is for left component only. Procedure on the right side is identical.

- Remove the trim panel of the luggage compartment capping



- Loosen screws (1).
- Remove the cover (2) with a suitable plastic wedge and unscrew the screw below it.
- Detach the trim panel of the luggage compartment capping (3) from the clips (4).
- Feed out the end fitting and remove the trim panel of the luggage compartment capping (3).

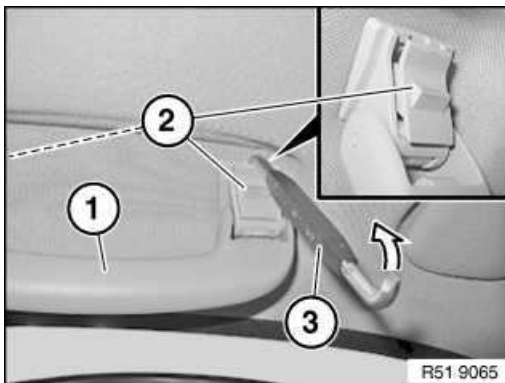
### 13 – Removing all grab handles



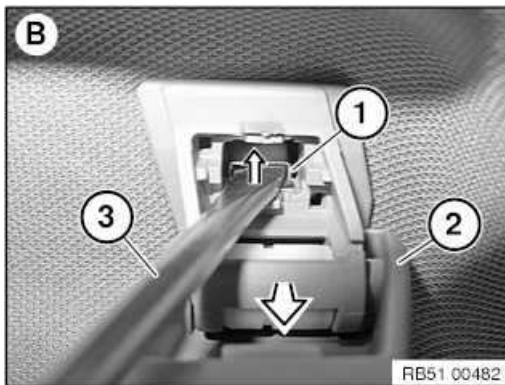
#### NOTICE

The description is for one component only. The procedure is identical for all further components.

#### ► Removing the grab handle

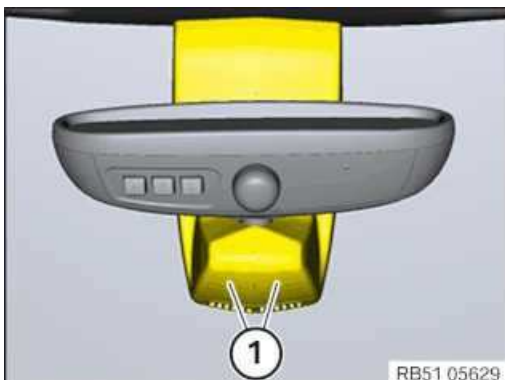


- Expand the grab handle (1) towards the bottom.
- Disengage and remove the locking insert (2) with an angle screwdriver (3) as shown.



- Pull the grab handle (2) slightly to the inside and hold it.
- Use a suitable screwdriver (3) to detach the upper and lower release tabs (1).
- Guide the grab handle (2) out.
- Repeat the operation on the other side of the grab handle (2).

### 14 – Remove the cover on the inside mirror



- Unclip the covers on the interior mirror (1) outward with a suitable plastic wedge in the center and remove.

### 15 – Remove both sun visors



## NOTICE

Description is for left component only. Procedure on the right side is identical.

### ► Remove sun visor



- Pull out the cover (1).
- Detach the sun visor (2) from the counter support .
- Disengage the sun visor (2) in front to the bottom and thread it out of the headlining at the rear.
- Unlock associated plug connection and disconnect.

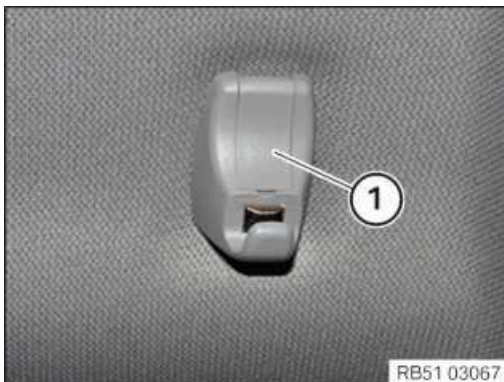
## 16 – Removing counter supports for sun visor on left and right



## NOTICE

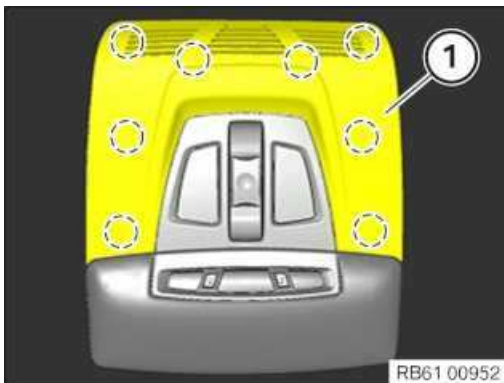
Description is for left component only. Procedure on the right side is identical.

### ► Remove the counter support for the sun visor

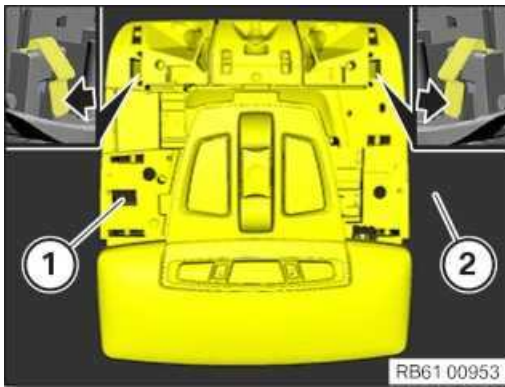


- Open the cover (1) and release the screw underneath.
- Remove the counter support downward.

## 17 – Remove the roof function centre



- Carefully unclip and remove the trim (1) with the special tool **0 496 569 (00 9 325)**.



- Unlock the left/right retaining lugs using a screwdriver in direction of the arrow.
- Remove the roof function centre (1) from the headlining (2).
- Unlock and disconnect associated connector.

## 18 – Removing the left and right A-pillar trim panels



### NOTICE

Description is for left component only. Procedure on the right side is identical.

### ► Remove the A-pillar trim panel



### WARNING

#### Airbag unit.

#### **Danger! Life-threatening injuries!**

- Before performing any work on the airbag, always disconnect the battery earth lead from the battery.
- Airbag unit may only be set down with the cushion (airbag itself) facing upwards.
- For additional information see: 72 00 ... Safety regulations on handling airbag system components/gas generators



### WARNING

#### Pyrotechnic components.

#### **Danger! Life-threatening injuries!**

- All work on pyrotechnic parts may be carried out by technically experienced and appropriately trained personnel only.
- Replace any damaged part or ones that have been dropped.
- For additional information see: 72 00 Safety regulations on handling components with gas generators.



- Unclip cover (1) and unscrew the screw below it.
- Release the A-pillar trim panel (2) from the clips (3) and guide out upwards.

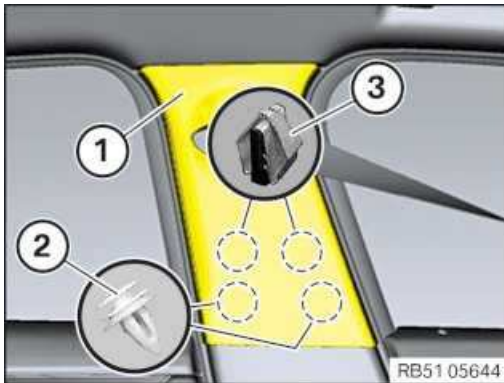
## 19 – Removing the B-pillar trim panels at top left and right



## NOTICE

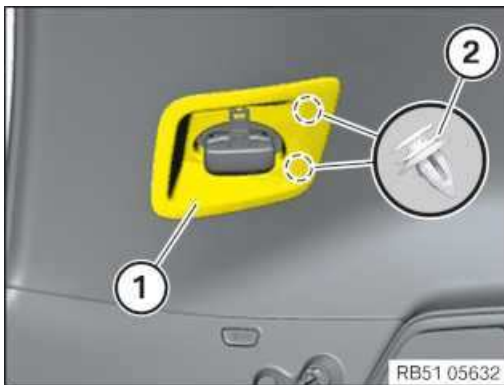
Description is for left component only. Procedure on the right side is identical.

### ► Partially removing upper B-pillar trim panel



- Carefully release the B-pillar trim panel (1) from the clips (2) and the clamps (3) with the special tool **0 496 569 (00 9 325)** and guide it out of the headlining in a downwards direction.

### 20 – Remove the belt feed trim



- Unclip the belt feed trim (1) at the clips (2) and slide it forward and out of the headliner.
- Slide out the seat belt and remove the belt feed trim (1).

### 21 – Lowering the headlining (with panorama glass roof)

#### Prerequisite

The front seats have been fully adjusted towards the bottom.

The front seat backrests have been fully adjusted towards the rear.

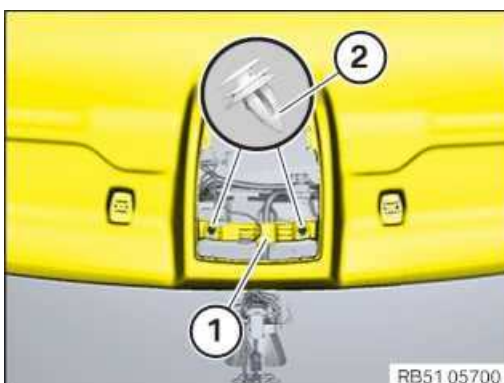


## RISK OF DAMAGE

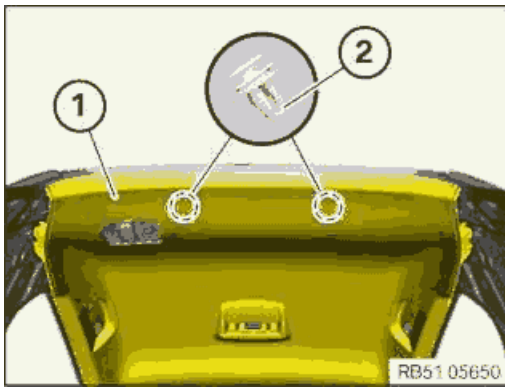
**Fold the headlining.**

**If the headlining is folded, it may have to be replaced.**

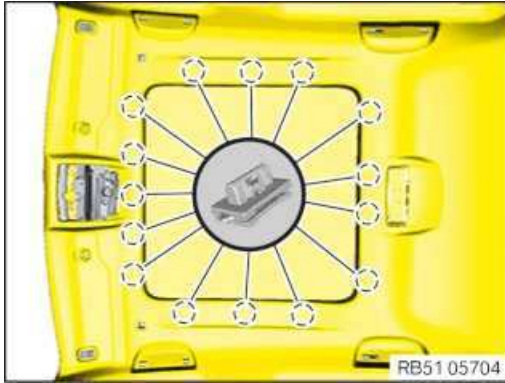
- Carry out tasks with a second person to assist.
- Support the headlining at the front and back.



- Loosen the frame (1) at the clips (2).
- If necessary, loosen the cable clip from the frame (1).



- Carefully release the headlining (1) at the clips (2).



- Carefully release the headlining with a suitable plastic wedge from the clamps (1) in a downwards direction.



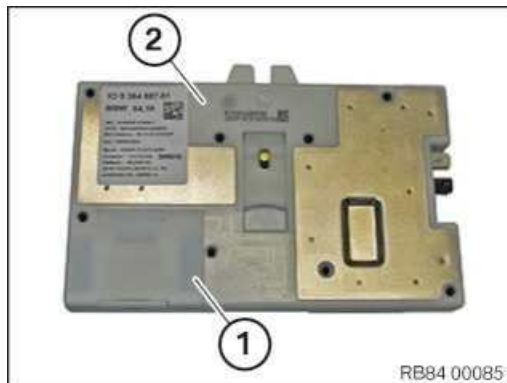
- Carefully guide out the headlining (1) at the respective edge protection and place it onto the seats in the vehicle.

### 22 – Replace the emergency battery of the telematics control unit



#### NOTICE

For a better overview the removed condition is shown here.



- Unlock and open battery compartment (1) on telematic control unit (2).



- Remove the emergency battery (1) from the battery compartment.
  - Replace emergency battery (1).
- Parts:** Emergency battery
- Close battery compartment on telematics control unit (2).

## POSTPROCESSES

### 23 – Install the headlining (lowered with panorama roof)

#### Prerequisite

The front seats have been fully adjusted towards the bottom.

The front seat backrests have been fully adjusted towards the rear.

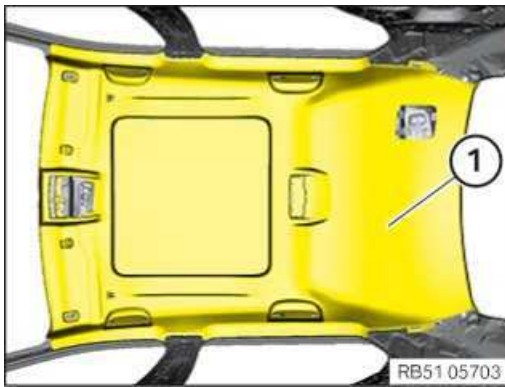


#### RISK OF DAMAGE

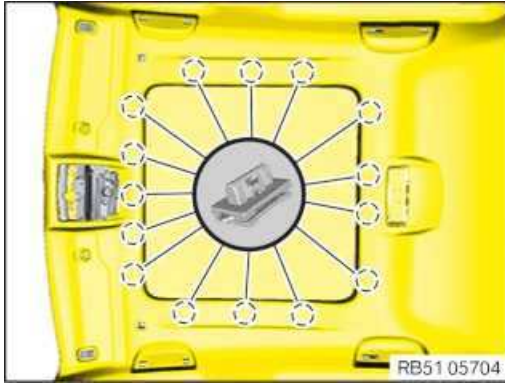
**Fold the headlining.**

**If the headlining is folded, it may have to be replaced.**

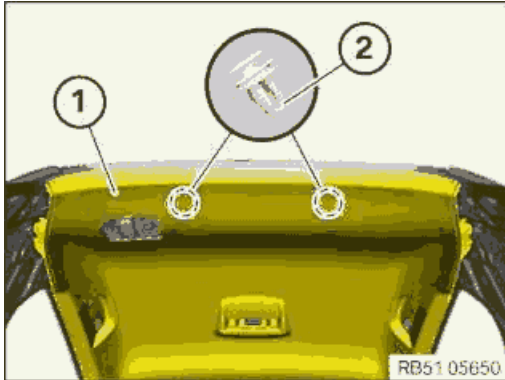
- Carry out tasks with a second person to assist.
- Support the headlining at the front and back.



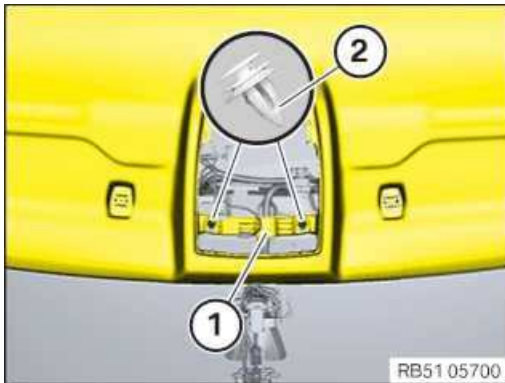
- Install the headlining (1) and carefully insert it at the respective edge protection.



- Carefully engage the headlining on the clamps (1).

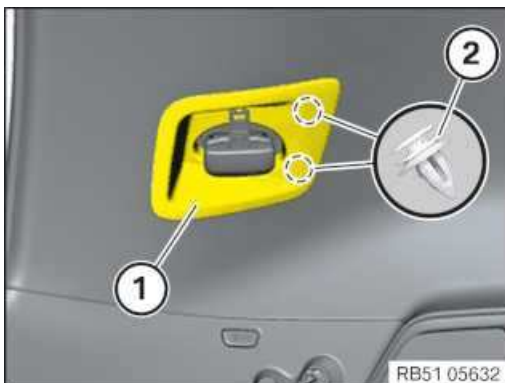


- Clip in the headlining (1) using the clips (2).



- Clip in the frame (1) with the clips (2).
- If necessary, attach the cable clip onto the frame (1).

#### 24 – Install the belt feed trim



- Feed in the seat belt on the belt feed trim (1).
- Feed in the belt feed trim (1) toward the rear on the headliner and clip in at the clips (2).

#### 25 – Installing the top left and right B-pillar trim panels



## NOTICE

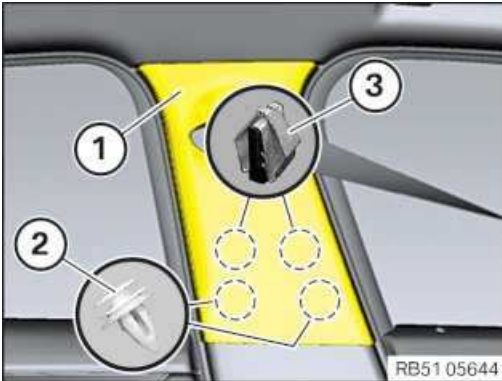
Description is for left component only. Procedure on the right side is identical.

### ► Partially installing upper B-pillar trim panel



## TECHNICAL INFORMATION

Latch mechanisms, guides and mounting elements must not be damaged or missing.



- Insert the B-pillar trim panel (1) into the headlining and lock it at the clips (2) and the clamps (3).
- Make sure that the B-pillar trim panel (1) is correctly positioned at the respective edge protection.

## 26 – Installing the left and right A-pillar trim panels



## NOTICE

Description is for left component only. Procedure on the right side is identical.

### ► Install the A-pillar trim panel



## WARNING

### Airbag unit.

#### **Danger! Life-threatening injuries!**

- Before performing any work on the airbag, always disconnect the battery earth lead from the battery.
- Airbag unit may only be set down with the cushion (airbag itself) facing upwards.
- For additional information see: 72 00 ... Safety regulations on handling airbag system components/gas generators



## WARNING

### Pyrotechnic components.

#### **Danger! Life-threatening injuries!**

- All work on pyrotechnic parts may be carried out by technically experienced and appropriately trained personnel only.
- Replace any damaged part or ones that have been dropped.
- For additional information see: 72 00 Safety regulations on handling components with gas generators.

Latch mechanisms, guides and mounting elements must not be damaged or missing.



- Thread in the A-pillar trim panel (2) and clip it in at the clips (3).
- Renew screw.

**Parts:** Screw

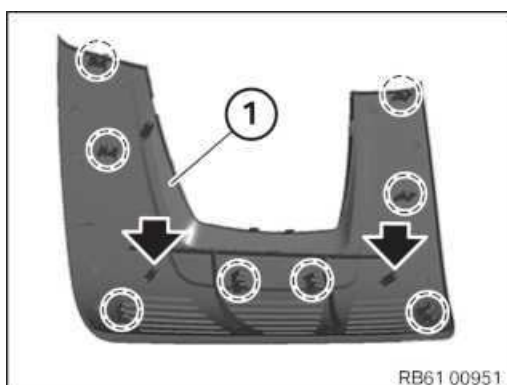
- Tighten down screw.

#### A-pillar trim panel to body

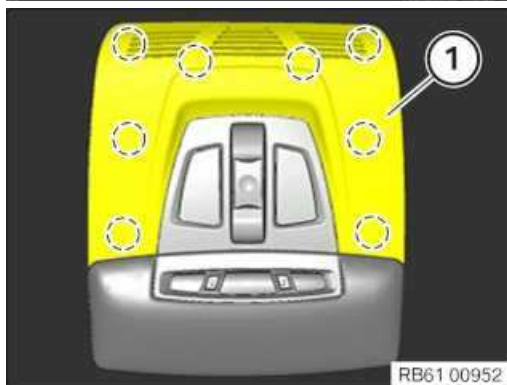
|             |             |                   |        |
|-------------|-------------|-------------------|--------|
| M5x42 screw | Renew screw | Tightening torque | 2,2 Nm |
|-------------|-------------|-------------------|--------|

- Clip in the cover (1).

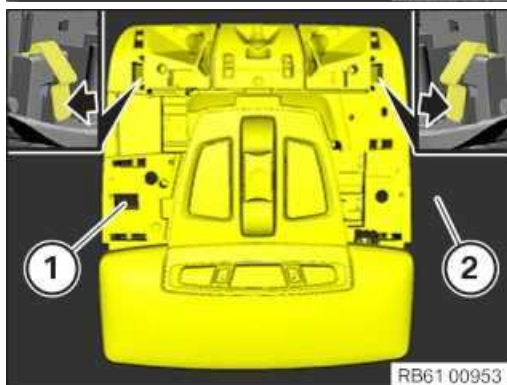
### 27 – Install the roof function centre



- The retaining lugs and guides on the trim (1) must not be damaged or missing.



- Carefully engage the trim (1) in the roof function centre.



#### NOTICE

To provide a better overview: Schematic diagram with partially hidden components.

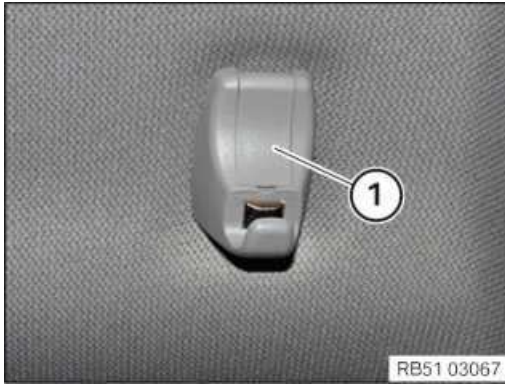
- Connect associated connector.
- Join the roof function centre (1) to the headlining (2).

### 28 – Install the counter supports for the sun visor on left and right



#### NOTICE

Description is for left component only. Procedure on the right side is identical.



#### ► Install the counter support for the sun visor

- Install the counter support.
- Tighten screw and close the cover (1).

#### Counter support on body

|       |  |                   |        |
|-------|--|-------------------|--------|
| Screw |  | Tightening torque | 2,5 Nm |
|-------|--|-------------------|--------|

### 29 – Install both sun visors



#### NOTICE

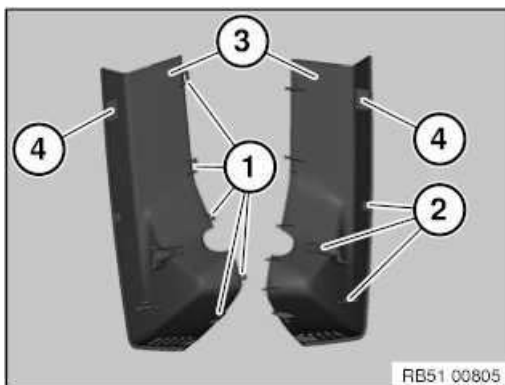
Description is for left component only. Procedure on the right side is identical.



#### ► Install the sun visor

- Connect the sun visor (2) with the corresponding connector.
- Guide the sun visor (2) into the headlining.
- Use cover (1).
- Attach the sun visor (2) on the counter support.

### 30 – Install the cover on the inside mirror

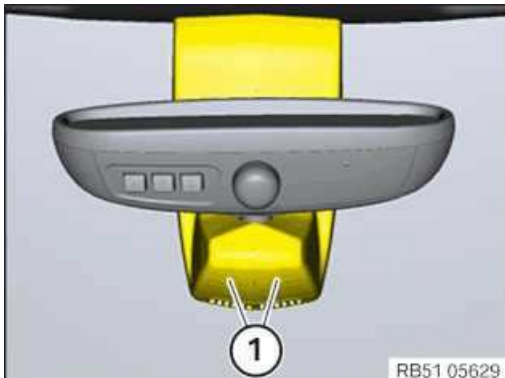


- Check the latch mechanisms (1) and guides (2) on the two covers (3) for damage, renew if necessary.

The latch mechanisms (1) and guides (2) must not be damaged.

- Check the spacers (4).

The spacers (4) must not be damaged or missing.



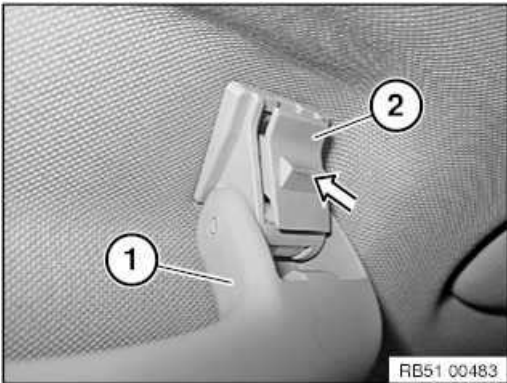
- Install covers on the interior mirror (1) clip together.

31 – Installing all grab handles



NOTICE

The description is for one component only. The procedure is identical for all further components.



► Installing the grab handle

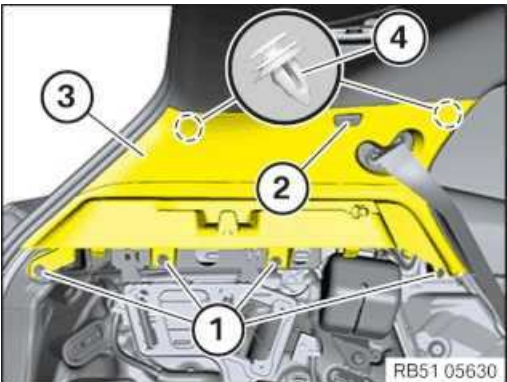
- Insert the grab handle (1) into body.
- Correctly clamp in the grab handle (1), as otherwise the locking inserts (2) on the grab handle (1) cannot correctly engage.
- Engage the locking inserts (2) on both sides of the grab handle (1).

32 – Install the trim panel for left and right the luggage compartment capping



NOTICE

Description is for left component only. Procedure on the right side is identical.



► Install the trim panel for the luggage compartment capping

- Install trim panel of the luggage compartment capping (3) and thread in the end fitting.
- Clip in the trim panel of the luggage compartment capping (3) at the clips (4).
- Tighten screw and mount cover (2).

Trim panel of luggage compartment capping

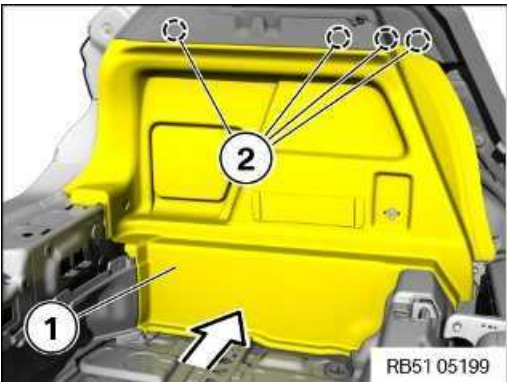
|                    |  |                   |      |
|--------------------|--|-------------------|------|
| Self-tapping screw |  | Tightening torque | 4 Nm |
|--------------------|--|-------------------|------|

- Tighten the screws (1).

Trim panel of luggage compartment capping to body

|               |  |                   |        |
|---------------|--|-------------------|--------|
| Hexagon screw |  | Tightening torque | 1,8 Nm |
|---------------|--|-------------------|--------|

33 – Install luggage compartment wheel arch trim panel at left



NOTICE

Schematic diagram is for example purposes. Some parts may differ in certain details.

- Push the luggage compartment wheel arch trim panel (1) down in the direction of the arrow and feed it into the guides (2) and under the C-pillar trim bottom.



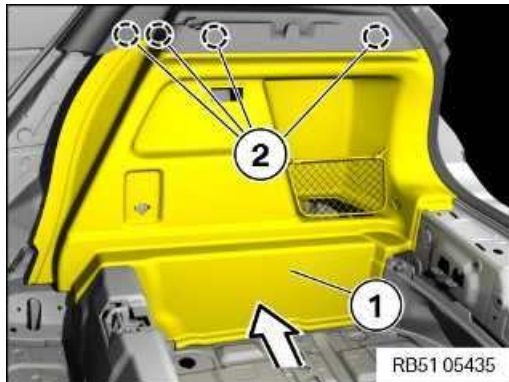
- Position the lashing eyes (3) and tighten the screws (2).

#### Lashing eye in luggage compartment

|              |  |                   |       |
|--------------|--|-------------------|-------|
| Bolt M8 x 22 |  | Tightening torque | 21 Nm |
|--------------|--|-------------------|-------|

- Clip in the covers (1).

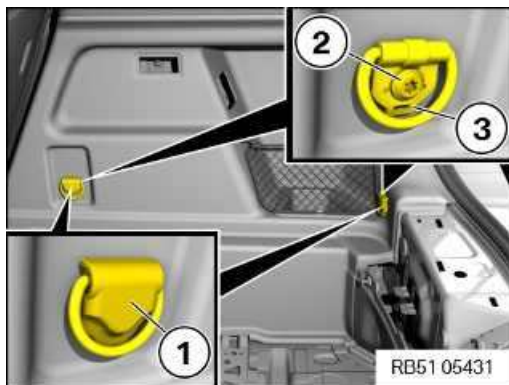
### 34 – Installing the luggage compartment wheel arch trim panel on the right



#### NOTICE

Schematic diagram is for example purposes. Some parts may differ in certain details.

- Press luggage compartment wheel arch trim panel (1) down in direction of arrow and feed into the guides (2) and under the bottom C-pillar trim panel.

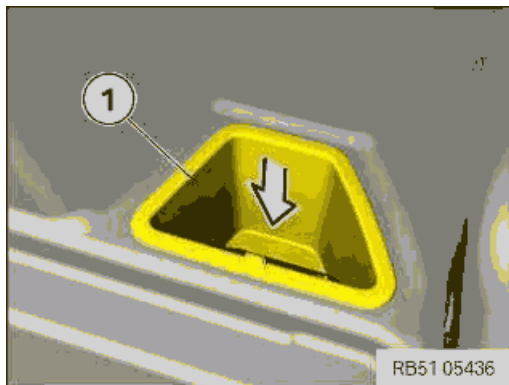


- Position the lashing eyes (3) and tighten the screws (2).

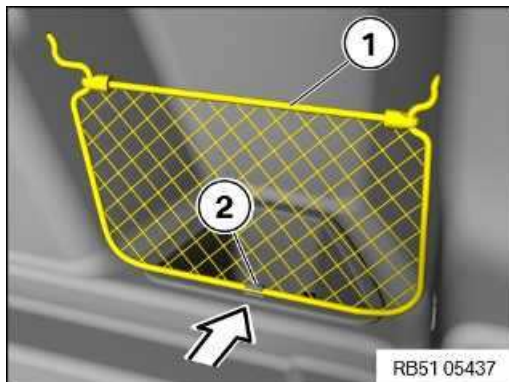
#### Lashing eye in luggage compartment

|              |  |                   |       |
|--------------|--|-------------------|-------|
| Bolt M8 x 22 |  | Tightening torque | 21 Nm |
|--------------|--|-------------------|-------|

- Clip in the covers (1).



- Install the storage compartment (1) in the luggage compartment wheel arch trim panel in direction of arrow.



- Clip storage net (1) into latch mechanisms (2) in direction of arrow.

### 35 – Install C-pillar trim panel at bottom left and right

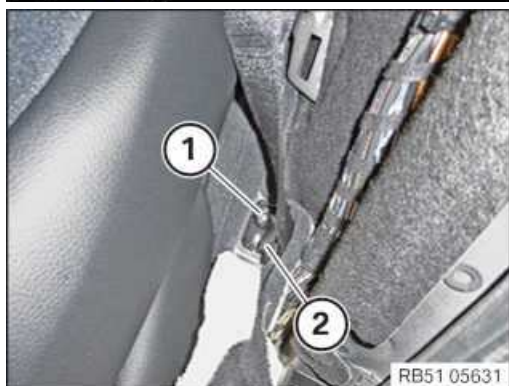
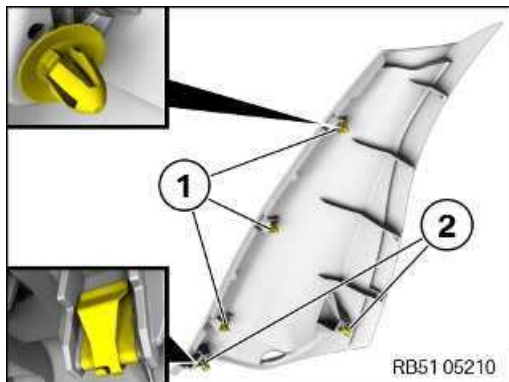


## NOTICE

Description is for left component only. Procedure on the right side is identical.

### ► Install the bottom C-pillar trim panel

- Check clips (1) for damage, and replace if necessary.
- Check the clamps (2) for damage, and replace if necessary.

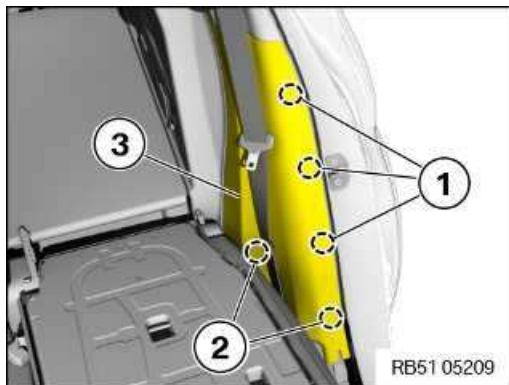


- Insert the end fitting (2) through the C-pillar trim panel.
- Mount the end fitting (2) and tighten the screw (1).

#### End fitting to body

| Screw | Renew screw. | Tightening torque | 42 Nm |
|-------|--------------|-------------------|-------|
|-------|--------------|-------------------|-------|

- Install the carpet correctly.



- Clip in the C-pillar trim panel on the bottom (3) with the clamps (2) and the clips (1).



- Position the edge protection (1) correctly in the area of the bottom C-pillar trim.

## 36 – Install the door sill cover strip on the rear left and right

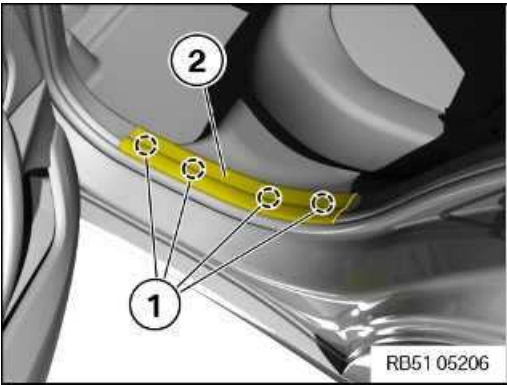
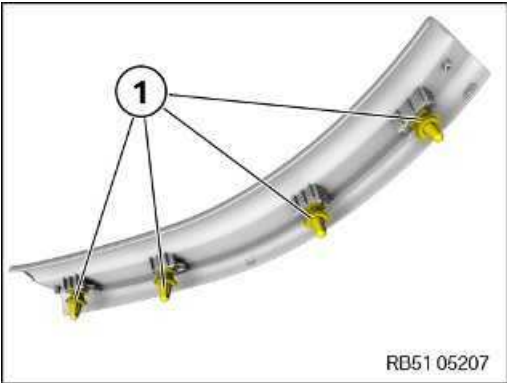


## NOTICE

Description is for left component only. Procedure on the right side is identical.

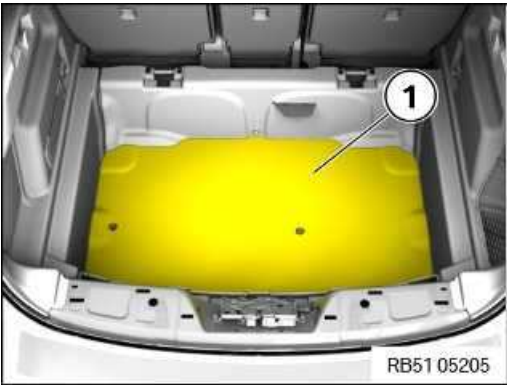
### ► Installing the rear door sill cover strip

- Check the clips (1) for damage and renew where required.



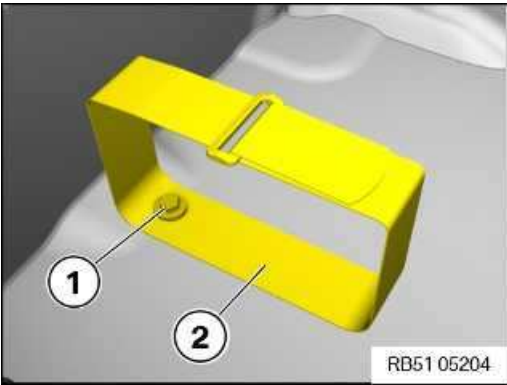
- Clip in the door sill cover strip (2) with the clips (1).

### 37 – Installing the luggage compartment floor trim panel



- Position the luggage compartment floor trim panel (1).

### 38 – Inserting the Velcro fastener for the toolkit

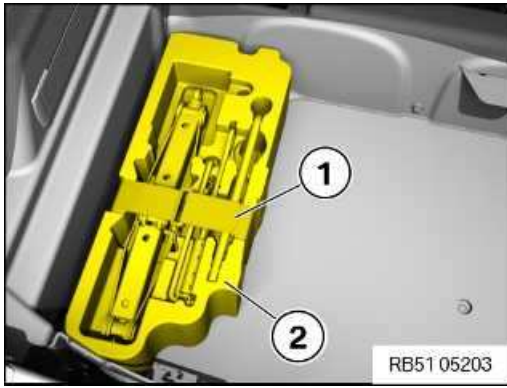


- Insert Velcro fastener (2).
- Tighten down screw (1).

#### Toolkit hook and loop tape to body

|              |  |                   |      |
|--------------|--|-------------------|------|
| Bolt M6 x 20 |  | Tightening torque | 4 Nm |
|--------------|--|-------------------|------|

### 39 – Install the tool kit

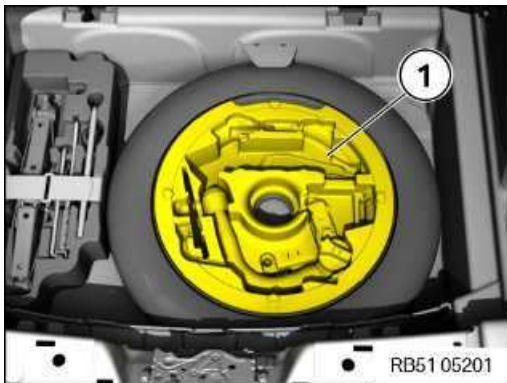


- Install the tool kit (2).
- Close the hook and loop tape (1).

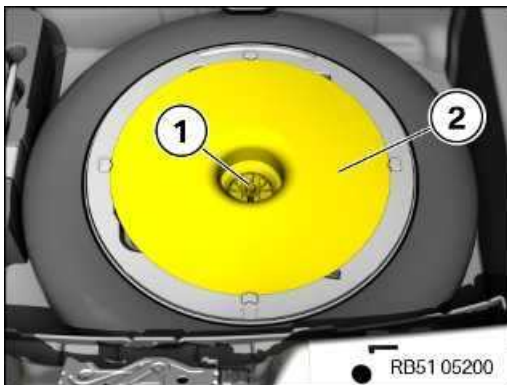
#### 40 – Install the emergency wheel



- Insert compact spare wheel(1).

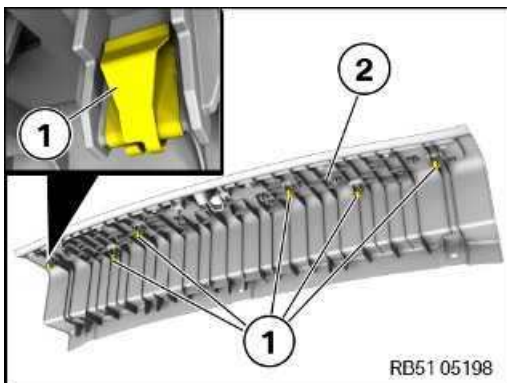


- Insert oddments tray into the compact spare wheel (1).

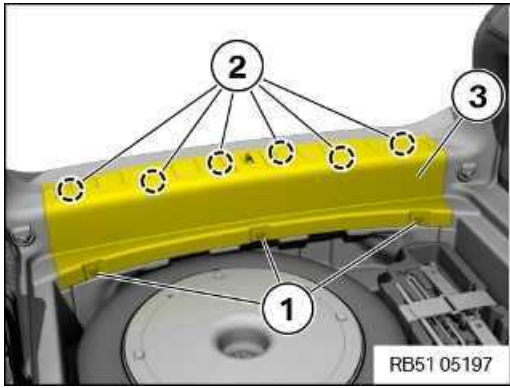


- Insert the lid (2).
- Hand-tighten the bolt (1).

#### 41 – Installing loading edge trim

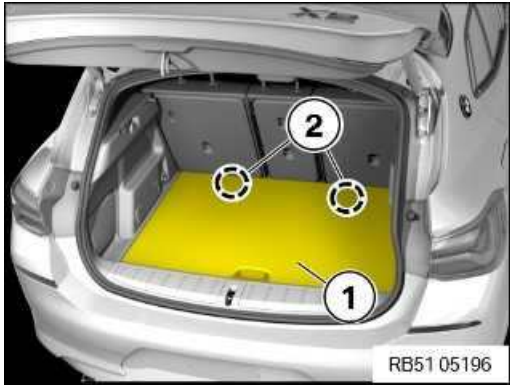


- Check the clamps (1) at the loading edge trim (2) for damage and renew if necessary.



- Insert the loading edge trim (3) in the area of the expanding rivets (1) into the underlying rear luggage compartment trim panel.
- Guide in the loading edge trim (3) under the sealing lip of the seal for the tailgate and clip it in with the clamps (2).
- Secure expanding rivet (1).

#### 42 – Installing the luggage compartment removable panel



- Clip luggage compartment removable panel (1) into latch mechanisms (2) and set down.

#### 43 – Disconnecting all battery earth leads



- See additional information.

### Additional Information

#### Overview of Tightening Torques

##### A-pillar trim panel to body

Used in step [26](#)

|             |             |                   |        |
|-------------|-------------|-------------------|--------|
| M5x42 screw | Renew screw | Tightening torque | 2,2 Nm |
|-------------|-------------|-------------------|--------|

##### Counter support on body

Used in step [28](#)

|       |  |                   |        |
|-------|--|-------------------|--------|
| Screw |  | Tightening torque | 2,5 Nm |
|-------|--|-------------------|--------|

##### Trim panel of luggage compartment capping

Used in step [32](#)

|                    |  |                   |      |
|--------------------|--|-------------------|------|
| Self-tapping screw |  | Tightening torque | 4 Nm |
|--------------------|--|-------------------|------|

##### Trim panel of luggage compartment capping to body

Used in step [32](#)

|               |  |                   |        |
|---------------|--|-------------------|--------|
| Hexagon screw |  | Tightening torque | 1,8 Nm |
|---------------|--|-------------------|--------|

##### Lashing eye in luggage compartment

Used in step [33](#) [34](#)

|              |  |                   |       |
|--------------|--|-------------------|-------|
| Bolt M8 x 22 |  | Tightening torque | 21 Nm |
|--------------|--|-------------------|-------|

## End fitting to body

Used in step 35

|       |              |                   |       |
|-------|--------------|-------------------|-------|
| Screw | Renew screw. | Tightening torque | 42 Nm |
|-------|--------------|-------------------|-------|

## Toolkit hook and loop tape to body

Used in step 38

|              |  |                   |      |
|--------------|--|-------------------|------|
| Bolt M6 x 20 |  | Tightening torque | 4 Nm |
|--------------|--|-------------------|------|

## Overview of Special Tools

### 0 496 569 (00 9 325) Wedge



#### Common

Used in step 17 19

|                              |                                                                                                 |
|------------------------------|-------------------------------------------------------------------------------------------------|
| Usage                        | (Panel wedge) From 11/2008 this special tool replaces panel wedge 00 9 317 (different material) |
| Included in the tool or work | 0 490 527                                                                                       |
| Storage location             | Individual                                                                                      |
| Replaced by                  |                                                                                                 |
| In connection with           |                                                                                                 |
| SI-Number                    | 41 01 09 (507)                                                                                  |

## Links

### General repair instructions

Used in step

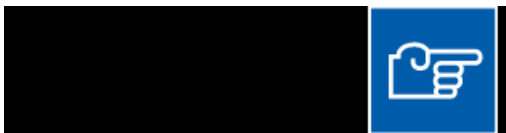
|                                                                                          |       |
|------------------------------------------------------------------------------------------|-------|
| <a href="#">72 00 ... Safety regulations for handling components with gas generators</a> | 18 26 |
|------------------------------------------------------------------------------------------|-------|

### Repair instructions

Used in step

|                                                                                                         |      |
|---------------------------------------------------------------------------------------------------------|------|
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 43 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 43 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 43 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 43 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 43 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 43 |
| <a href="#">61 20 900 Disconnecting and connecting the battery earth lead (all battery earth leads)</a> | 1 43 |
| <a href="#">61 20 900 Disconnecting and connecting the battery earth lead (all battery earth leads)</a> | 1 43 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 43 |
| <a href="#">61 20 900 Disconnecting and connecting the battery earth lead (all battery earth leads)</a> | 1 43 |
| <a href="#">61 20 900 Disconnect and connect battery earth lead (Plug-in Hybrid Electric Vehicle)</a>   | 1 43 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 43 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 43 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 43 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 43 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 43 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 43 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 43 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 43 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a>                               | 1 43 |
| <a href="#">61 20 900 Disconnecting and connecting the battery earth lead (all battery earth leads)</a> | 1 43 |

|                                                                           |      |
|---------------------------------------------------------------------------|------|
| 61 20 900 Disconnecting and connecting battery earth lead                 | 1 43 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a> | 1 43 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a> | 1 43 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a> | 1 43 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a> | 1 43 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a> | 1 43 |
| <a href="#">61 20 900 Disconnecting and connecting battery earth lead</a> | 1 43 |

**The following applies in general:**

To avoid damage, observe the following instructions:

- Avoid compressive and tensile loads
- To ensure professional repairs, perform repair work only with BMW-approved or recommended special tools and spare parts
- Make sure cables are laid without kinks or abrasions
- Ensure non-contacting routing at sharp-edged body parts; use edge protection if necessary
- Secure additionally laid cables/leads with cable ties

**The following additionally applies:**Shielded lines

Interference radiation and interference resistance can lead to neutral zones at contact points in the shielding. Consequently, distinctions have to be drawn between the following types:

Coaxial lines

- Shielded coaxial cables RTK031 may only be repaired with a special [crimping tool](#).
- For aerial lines only the bushing contact may be repaired.
- RG174 Lines and the bushing contact may not be repaired.

CVBS lines

- CVBS cables may not be repaired.
- CVBS cables must be replaced in their entirety.

HSD lines

- HSD cables may not be repaired.
- HSD cables must be replaced in their entirety.

Optical fibre cable:*Note:*

Fibre-optic cables are coloured differently as follows:

- Green = **MOST** (**M**edia **O**riented **S**ystems **T**ransport) optical fibres
- Yellow = **ISIS** (**I**ntelligent **S**afety and **I**ntegration **S**ystem) optical fibres
- Orange=repair fibre-optic cables

**Attention!**

- Optical fibres are permitted to show only one junction point (bridge). Replace optical fibres if necessary
- Smallest permissible bending radius is 25 mm
- Avoid effects of heat  $\geq 85^{\circ}$

[Treating cables and fibre-optic cables](#)FlexRay (twisted cables):

It is possible to repair the FlexRay. In the event of damage, the cables can be joined with conventional [butt connectors and heat-shrink tubing](#).

*Note:*

- FlexRay lines may only reveal one separation point (bride); renew complete line if necessary.
- If possible, maintain twisted cable after repair.
- After repairs, twist cables as close as possible to the connector/separation point.
- Twisting must be as symmetrical as possible.

Airbag lines:

[Repairing airbag cables](#)

Ribbon cables:

[Repairing ribbon cables](#)

### Replacing wiring harnesses

Repair wiring harnesses mainly cover the full equipment of the vehicle. If certain optional equipment is not installed in the vehicle, note the following:

- If necessary, secure the remaining connectors.
- If necessary, seal the remaining connectors outside the vehicle interior, for example, with butyl tape in such a way that moisture ingress can be eliminated permanently.
- [If necessary, re-pin the connector of the repair wiring harness.](#)

*Note:*

**Repair wiring harnesses** can be equipped with an **additional socket housing** (30-pin, for example), **which was not provided on the previous vehicle-side wiring harness**. This socket housing also cannot be found in the wiring diagram.

### Procedure

The separation point between the vehicle-side wiring harness and the repair wiring harness is located **in the vehicle interior** (in the footwell, for example):

- Cut the additional socket housing and connect the lines to the vehicle-side wiring harness using a butt connector.
- Alternatively, a suitable pin housing can be fitted on the vehicle-side wiring harness and connected to the additional socket housing.

However, this is permitted only if the following conditions are met:

- Carpets must not protrude visibly or become deformed due to the installation of the additional plug connection.
- It must be possible to install the adjacent components (for example, trims, trim panels, etc.) correctly after installing the additional plug connection.
- All the attachment points of the adjacent components (for example, trims, trim panels, etc.) must engage correctly.
- There must be no rattling noise due to the installation of the additional plug connection.
- The additional plug connection must not damage the adjacent components/wiring harnesses, etc..

The separation point between the vehicle-side wiring harness and the repair wiring harness is located **outside the vehicle interior** (in the wheel arch, for example):

- Cut the additional socket housing and connect the lines to the vehicle-side wiring harness using a butt connector.
- **Using the additional socket housing is not permitted with a separation point outside the vehicle interior.**

## 64 00 ... Information on using cleaning agent/paints (personal protection equipment)



### Warning!

Use of cleaning agents/paints not compliant with instructions can cause serious injuries or burns!

Handling cleaning agents/paints can trigger allergic skin and respiratory reactions!



### Important!

Observe following instructions:

- Store cleaning agents/paints only in a secure cabinet.
- Keep cleaning agents/paints away from naked flames and other sources of ignition.
- Protect cleaning agents/paints from high temperatures and direct sunlight.
- Always keep an eye douche on hand, change the water regularly (once a month).



### Important!

Observe following instructions before use:

- Manufacturer's instructions (on container/packaging)
- Hazard warnings (on container/packaging)
- Manufacturer's instructions on package insert
- Material safety data sheet of manufacturer
- Product information in EPC
- National market regulations



### Important!

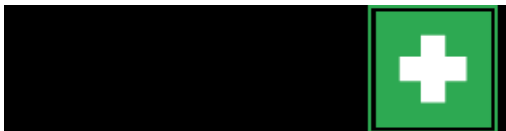
Observe following instructions during use:

- Do not eat, drink or smoke while working with these products.
- Avoid direct contact with skin and eyes.
- Wear personal protective clothing/equipment.
- Ensure that all enclosed areas are well ventilated or extract fumes directly.
- Immediately change working clothes soiled with cleaning agent/paint.
- After finishing work, wash your hands and apply protective skin cream.



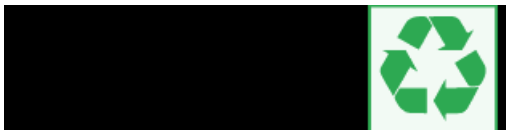
### Important!

Follow hazard warnings and wear personal protection equipment!



#### First Aid:

- If product comes in contact with eyes, immediately flush with running water for about 10 - 15 minutes. Seek the advice of eye specialist.
- In the event of skin contact and where applicable an allergic skin reaction, clean the affected areas immediately with soap and water and then apply silicone-free skin cream. Seek advice of physician.
- If an adhesive product is swallowed, rinse mouth/parts of mouth thoroughly with running water. Drink 1-2 glasses of water. Do not induce vomiting. Consult a doctor.
- After inhaling vapours ensure ample supply of fresh air. Keep calm, keep respiratory tracks clear and call doctor.



#### **Recycling:**

Dispose of cleaning agents/paints in a professional manner!  
Observe national/country-specific disposal regulations.