

51 44 925 Lowering the headlining with SHD



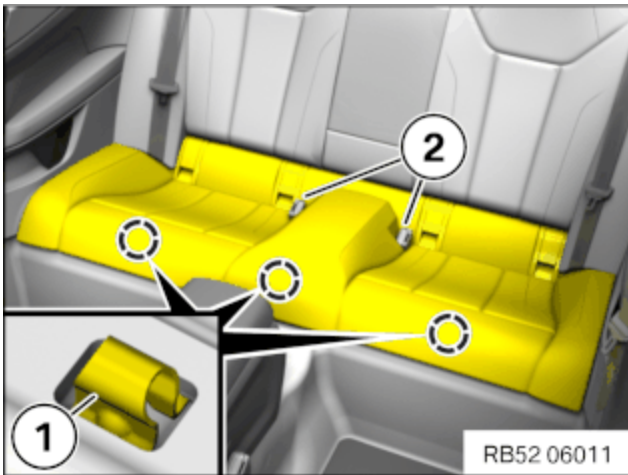
Fold the headlining.

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.

PRELIMINARY WORK

1 – Remove rear seat bench



- Unclip the rear seat bench upwards from clamps (1) and guide out seat belt buckles (2).
- Remove the rear seat bench.

2 – Remove backrest side section on left and right



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

▶ **Remove armrest side section**

▷ **Remove armrest side section**





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▷ Deactivating the 48 V electrical system

Prerequisite

Ignition is switched off.



Deactivation of the 12 V vehicle electrical system.

Risk of short circuits! Risk of fire!

- Make sure that **no battery charger** is connected to the jump start terminal point in the engine compartment.
- For vehicles with additional electrical systems (48 V electrical system, high-voltage vehicle electrical system), it is mandatory to deactivate them **before** disconnecting the vehicle battery.



Deactivation of the 48 V electrical system.

Risk of short circuits! Risk of fire!

- Make sure that **no charger** is connected to the jump start support point in the engine compartment.



Damage to 48-V battery

If a 48-V battery that is disconnected from the electrical system is activated, the battery electronics will be damaged.

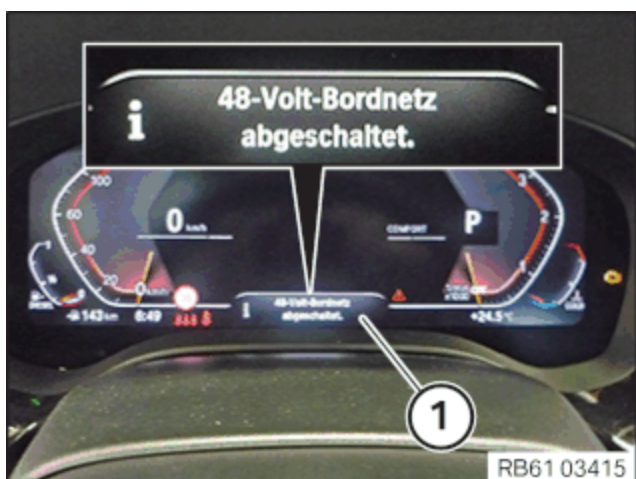
- Only carry out activation of the 48V electrical system with a completely connected 48-V battery.





bonnet.

The deactivation takes place automatically.



Check



Zero voltage (48V electrical system is switched off) is displayed only in PAD mode.

- Press the START-STOP button quickly 3 times without stepping on the brake pedal to establish the PAD mode.
- Check isolation from the supply in the instrument cluster in PAD mode.



system switched off:" (1). Work is not permitted to be started.

Measure

- Carry out the service function "48 V electrical system deactivation".
 - Vehicle management > Service functions > Voltage supply > Deactivate 48 V electrical system

Only when the Check Control message "48 V electrical system switched off." (1) is displayed in the instrument cluster is it permitted to disconnect the 12 V battery.

If the absence of voltage is not indicated clearly, contact Technical Support.

Result

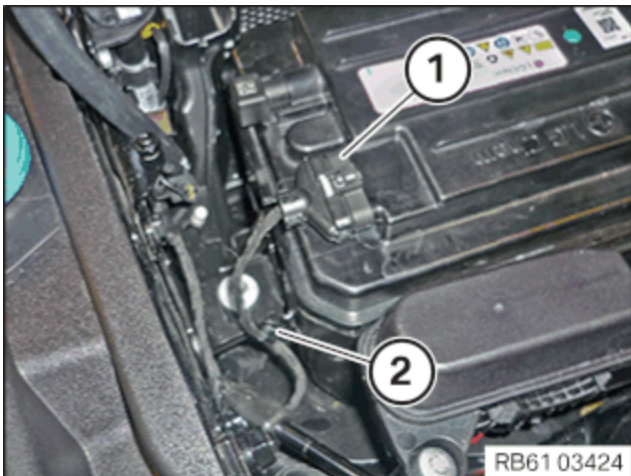
- » The Check Control message signals that the 48V electrical system has been switched off.

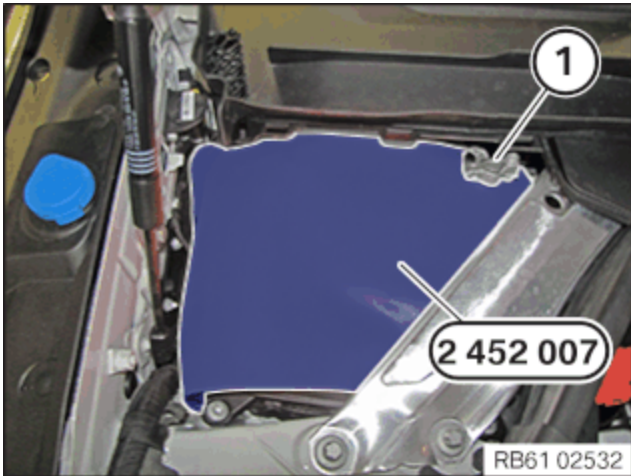
Measure

- Exit PAD mode by pressing the START-STOP button once without depressing the brake pedal.

The work "Disconnecting the negative battery cable of the 48-V battery" can be started.

- Unlock and disconnect plug connection (1) of the CAN bus.
- Release the clip (2).





Unprotected battery terminals.

Risk of short circuits! Risk of fire!

- Cover the vehicle battery.

- Cover the vehicle battery with the special tool as shown.
- Position the battery earth lead (1) as shown.



▷ **Disconnecting all battery earth leads**

- See additional information.



▷ **Removing backrest side section with side airbag**



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



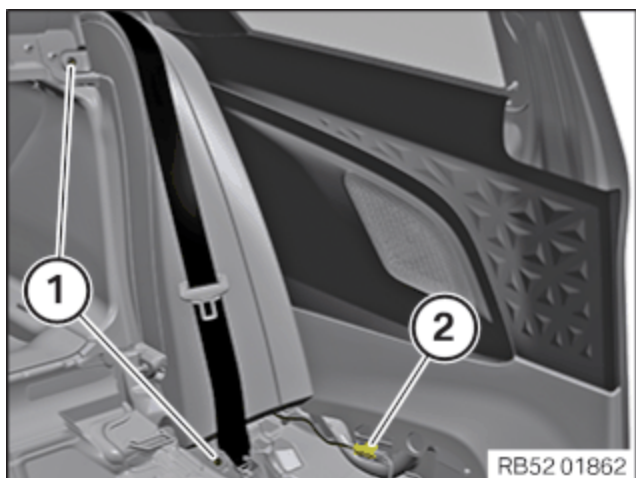
Pyrotechnic components.

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.

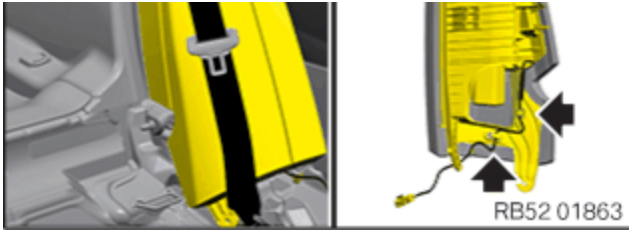


To provide a better overview: Schematic diagram with partially hidden components.



- Loosen screws (1).
- Unlock plug connection (2) and disconnect.





3 – Removing the inner door sill cover strip on the left and right



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

► Removing the inner door sill cover strip



Bending of plastic parts.

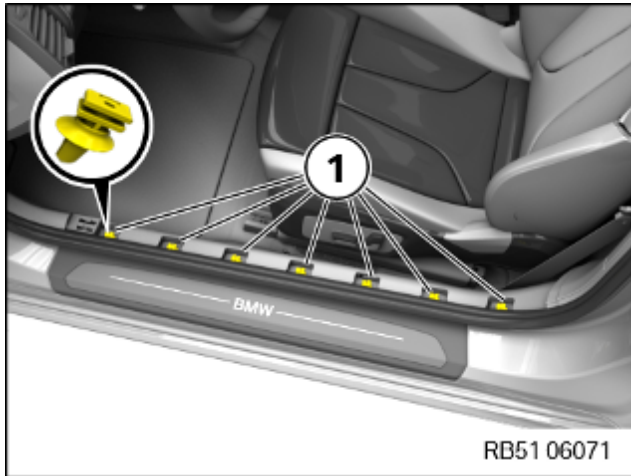
Application of too much force can lead to bending of plastic parts.

- Place special tool directly beside the mounting clip.
- Continue unclipping the part without using the tool if possible.



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





- If necessary, remove clips (1) and connect them to the door sill cover strip.

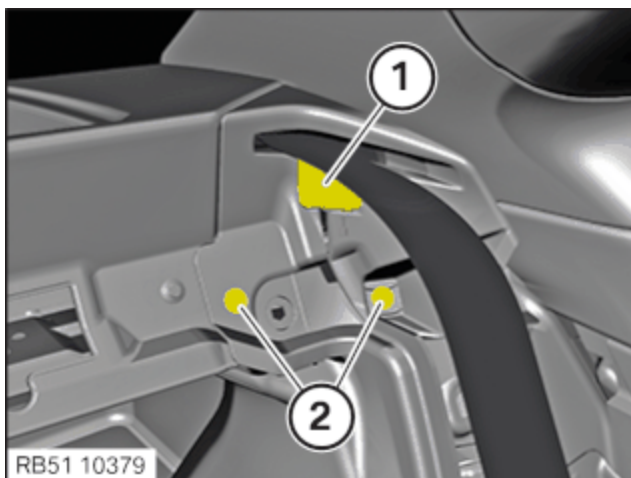
4 – Removing the left and right belt feed trim



Perform the operations on the left and right side.

► Remove the belt feed trim

- Unclip the trim (1) with a suitable tool.
- Release the expanding rivet (2).





5 – Remove side trim panel, rear left and right

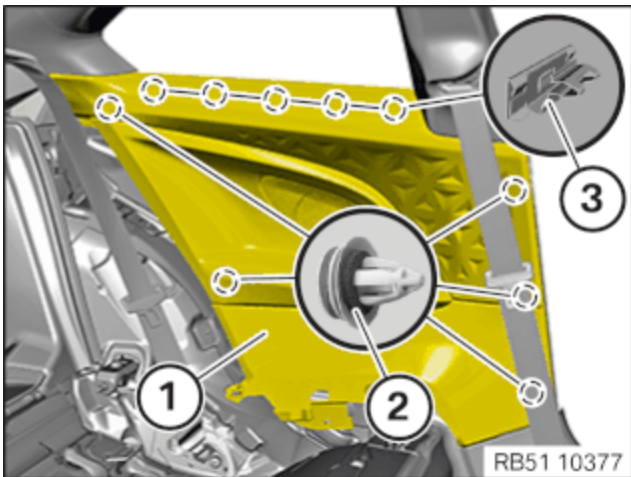


Perform the operations on the left and right side.

► Remove rear side trim panel

Prerequisite

Rear seat bench is folded.



- Unclip the rear side trim panel (1) at the clips (2) with a suitable tool.
- Unclip the rear side trim panel (1) from the clamps (3) with a suitable tool and feed out.
- Unlock and disconnect all the plug connections of the wiring harness on the rear side trim panel (1).





7 – Removing left and right B-pillar trim panel

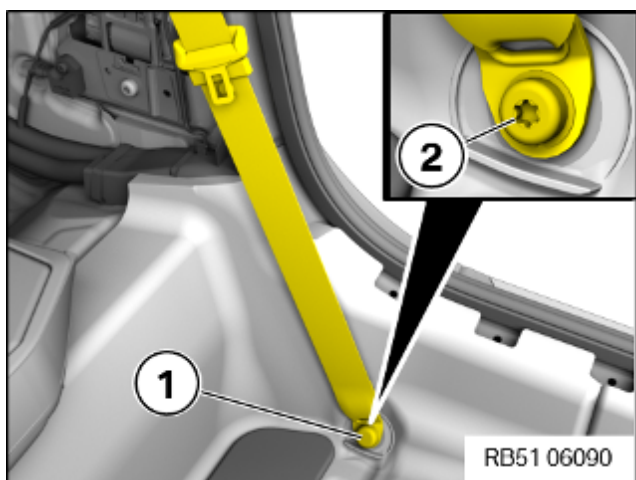


Perform the operations on the left and right side.

► Remove the B-pillar trim panel

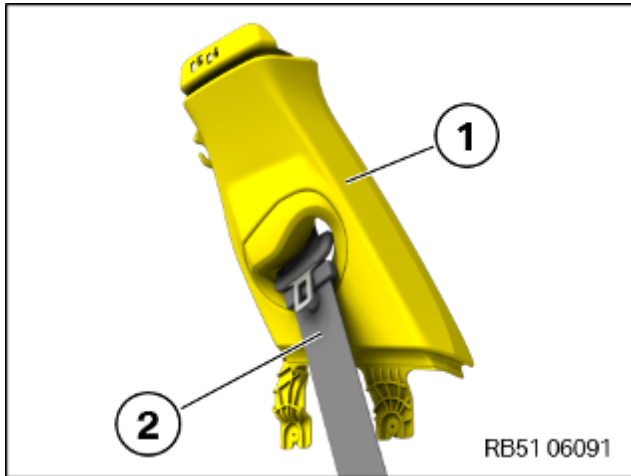
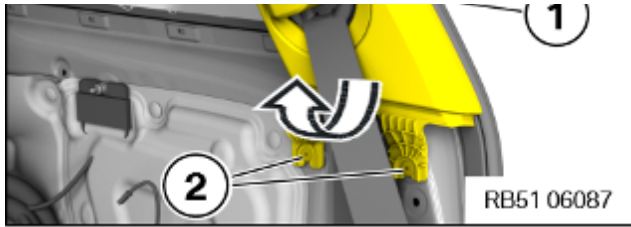


Schematic diagram is for example purposes. Some parts may differ in certain details.



- Remove cover cap (1) and release screw (2).





- Feed upper seat belt (2) out of B-pillar trim panel (1).

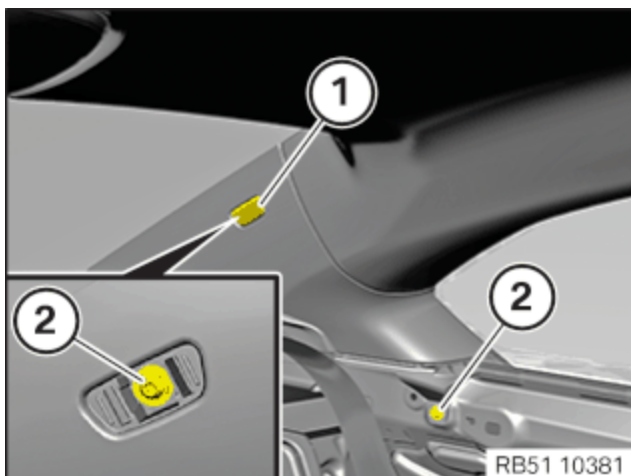
8 – Remove the C-pillar trim panel, left and right



Perform the operations on the left and right side.

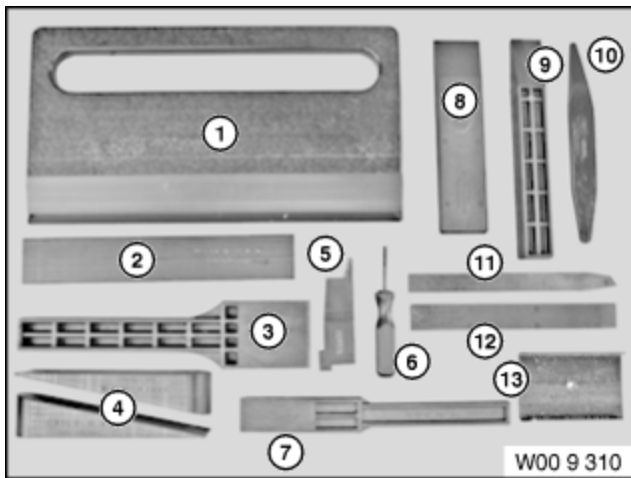
► Remove C-pillar trim panel

- Unclip the cover (1).
- Loosen screws (2).

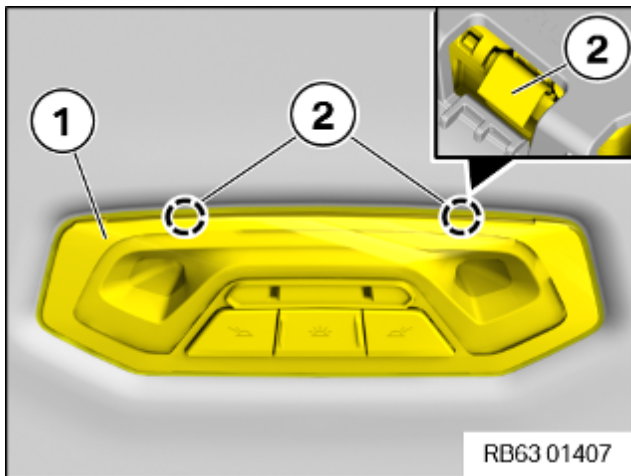




9 – Remove interior roof light



- Have the set of special tools **0 493 752 (00 9 329)** ready.



- Lever interior roof light (1) out of clamps (2) using a suitable tool.
- Unlock plug connection and disconnect.



► Remove the A-pillar trim panel



Pyrotechnic components.

Danger! Life-threatening injuries!

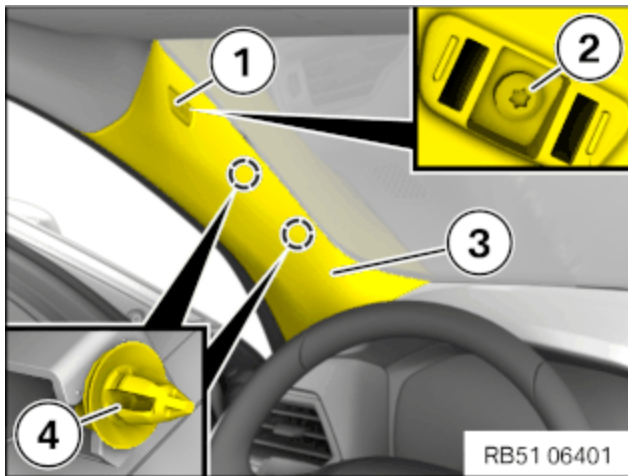
- All work on pyrotechnic parts may be carried out by technically experienced and appropriately trained personnel only.
- Replace any damaged part or ones that have been dropped.
- For additional information see: 72 00 Safety regulations on handling components with gas generators.



Damage to the head airbag.

Improper use of a tool when removing the trim panel may damage the head airbag.

- Do not use sharp-edged tools when removing the trim panel.



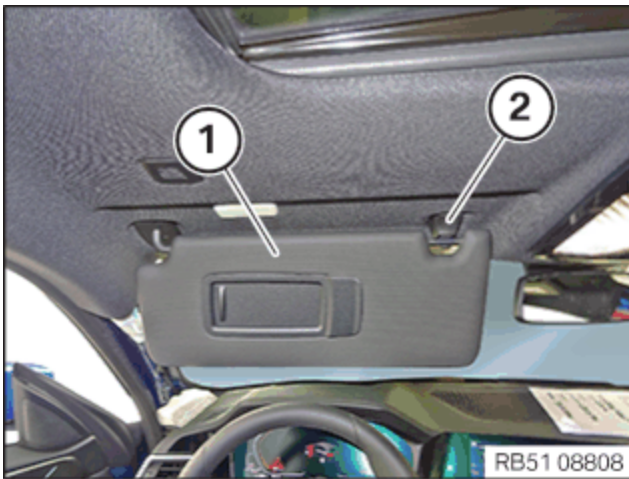
- Unclip cover (1) with a suitable special tool from the special tool kit **0 493 752 (00 9 329)**.
- Loosen screw (2).
- Unclip A-pillar trim panel (3) with clips (4) and feed it out to the top.



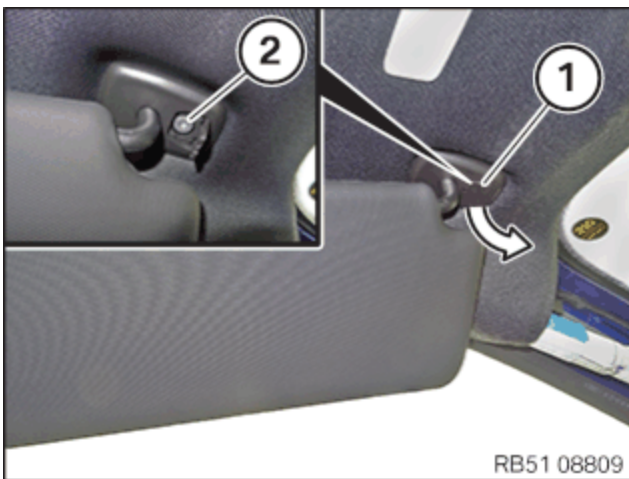
► Remove sun visor



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



- Detach sun visors (1) from end support (2) and swivel to the side.



- Fold the cover (1) up in direction of arrow.
- Loosen screw (2).
- Remove sun visor and unlock and disconnect the associated plug connection.

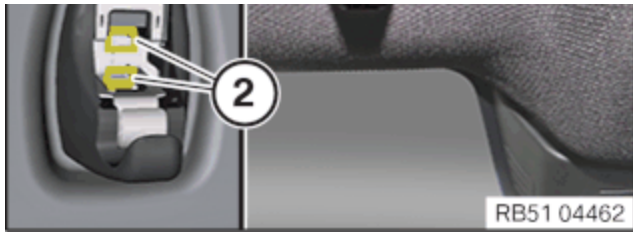
12 – Removing counter supports for sun visor on left and right



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

► Remove the counter support for the sun visor

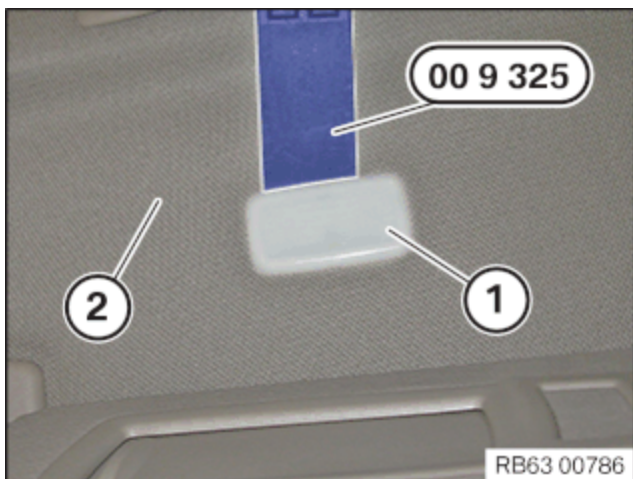




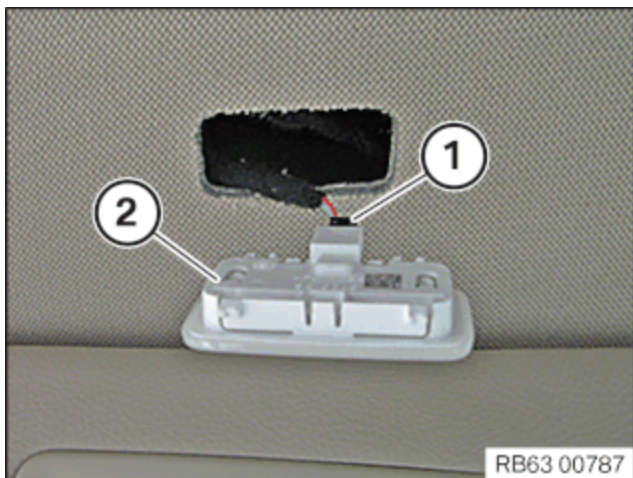
13 – Removing front vanity mirror light



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



- Lever out the front vanity mirror light (1) with the special tool **0 496 569 (00 9 325)** from the headlining (2).

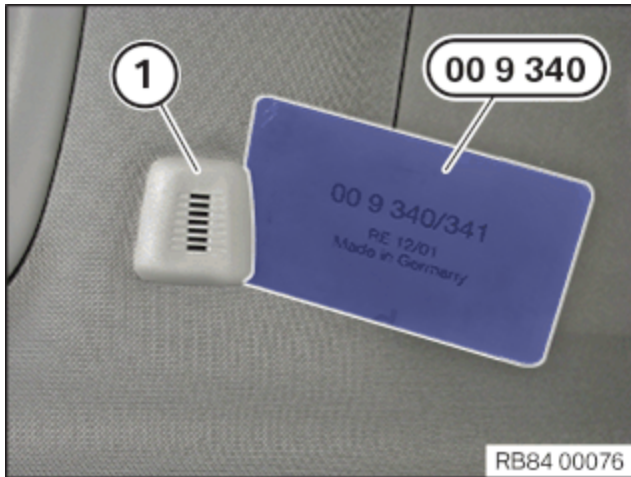


- Unlock plug connection (1) and disconnect.
- Remove the front vanity mirror light (2).

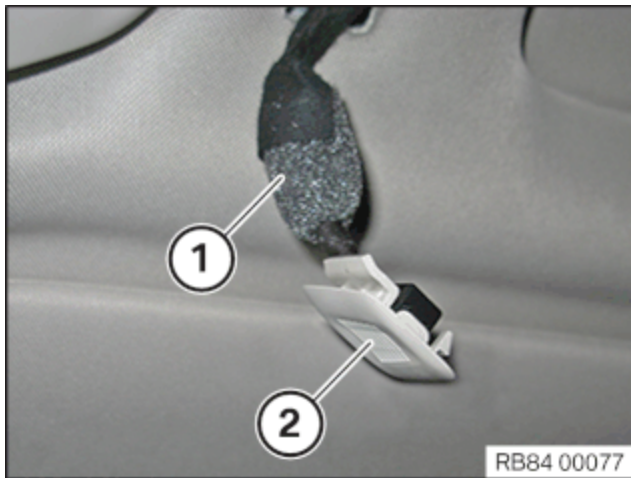


► Removing hands-free microphone

- Lever out the hands-free microphone (1) with the special tool **0 493 687 (00 9 340)**.



- Open insulation (1).
- Disconnect plug connection.
- Remove hands-free microphone (2).



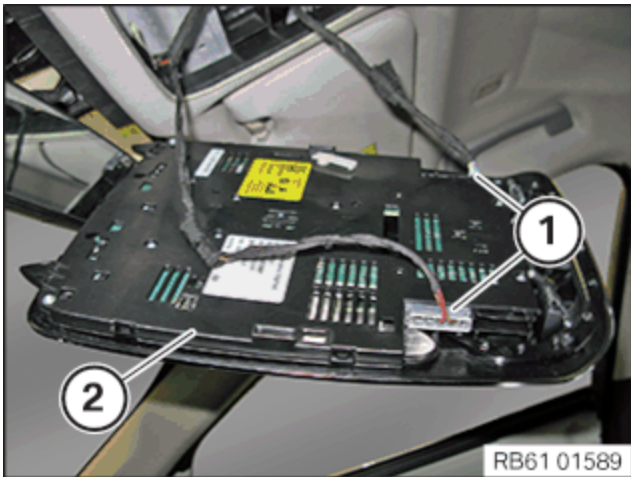
15 – Removing the roof function centre (FZD)

- Unclip the cover (1).





- Unclip the roof function centre (FZD) (1) from the clamps (2).
- Thread the roof function centre (FZD) (1) out of the guides (3).

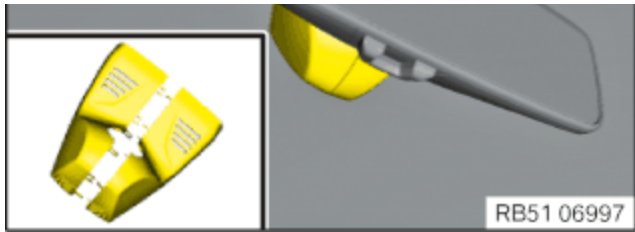


- Unlock and disconnect plug connections (1).
- Unclip the cable clip from roof function centre (FZD) (2) and remove the roof function centre (FZD) (2).

16 – Removing the covers for the interior mirror

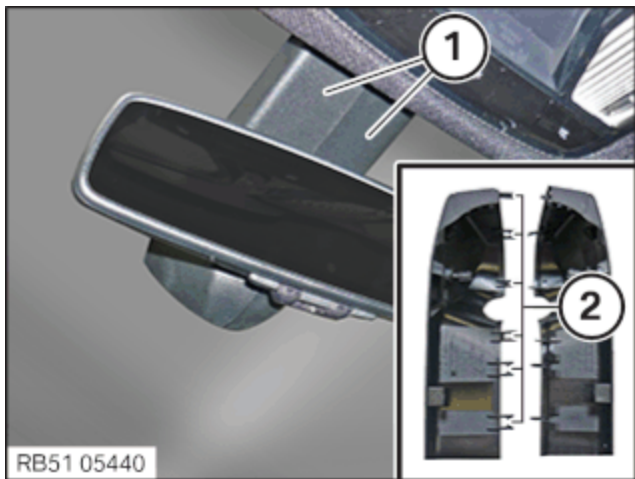
- **Version A:**





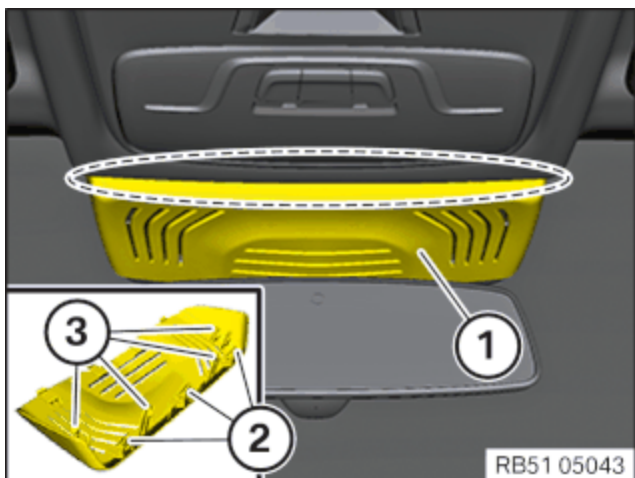
- **Version B:**

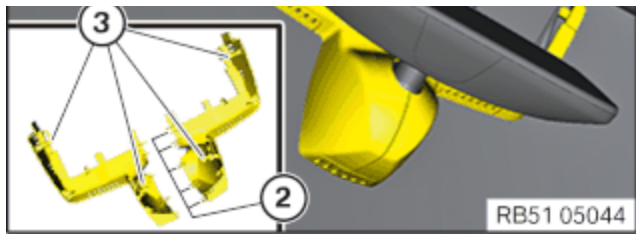
- Release the cover (1) from the latch mechanisms (2) with a suitable plastic wedge and remove sideways.



- **Version C:**

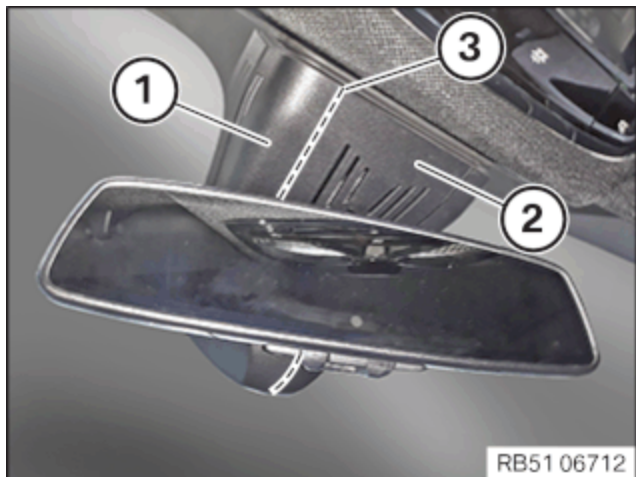
- Detach cover (1) from the clamps (2) in the marked area using a suitable plastic wedge and pull down a certain distance.
- Release cover (1) at the retaining lugs (3) and remove from the guides to the rear.





- **Version D:**

- Release covers (1) and (2) using a suitable plastic wedge at the separation point (3) and remove from the side.

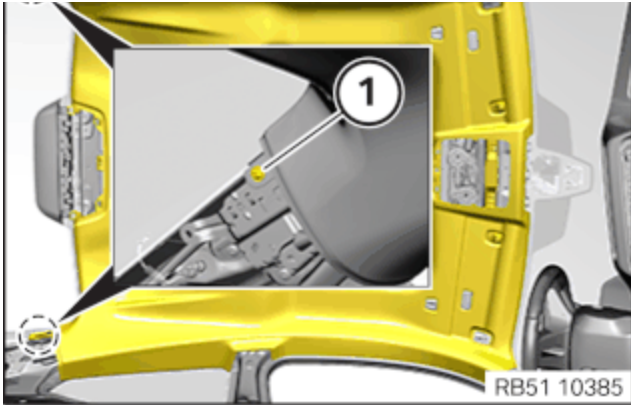


MAIN WORK

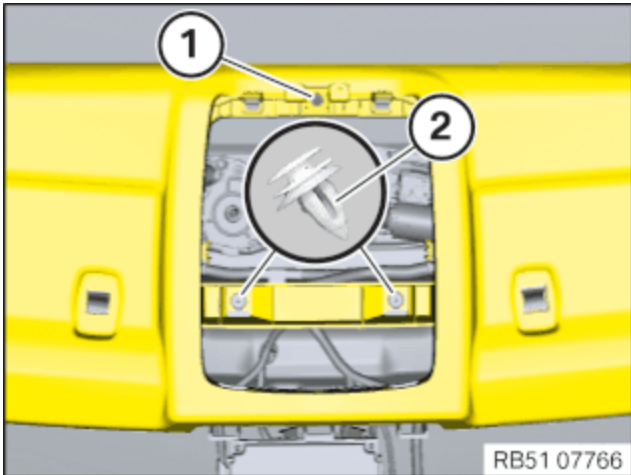
17 – Lowering the headlining (with slide/tilt sunroof, SHD)

Prerequisite

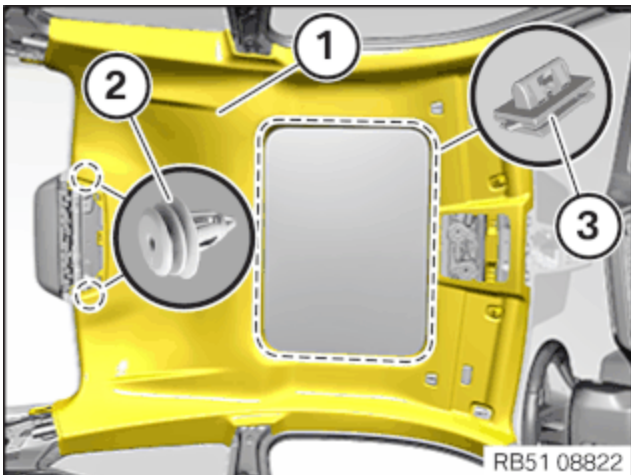


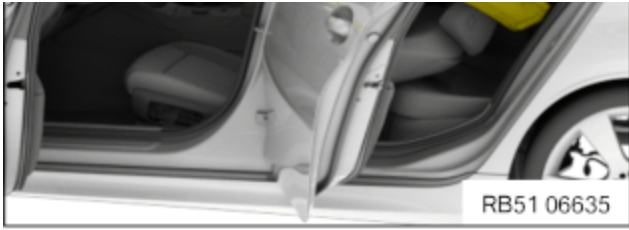


- Loosen screw (1).
- Unclip the headlining on the clips (2) downwards.



- Unclip headlining (1) downwards from clips (2).
- Carefully unclip headlining (1) from the slide/tilt sunroof unit and clamps and the clamps (3) in the area of the dotted line.





- Feed out headlining (1) from the respective lips of edge protection with the assistance of a second person.
- Place the headlining (1) in the vehicle with an auxiliary person.

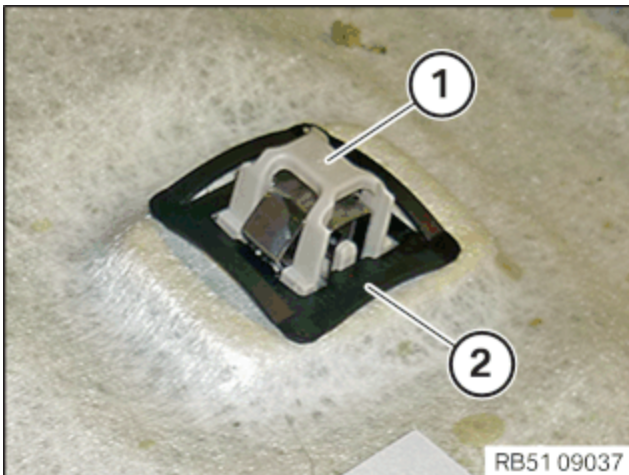
18 – Install the headlining (with slide/tilt sunroof) (lowered)

Prerequisite

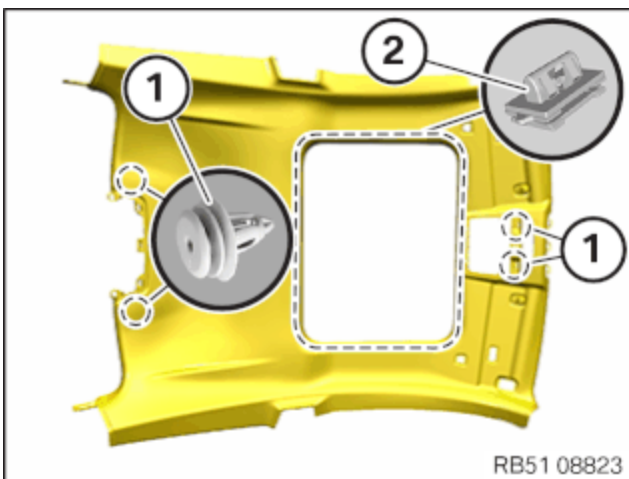
The front seats have been fully adjusted towards the bottom.

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

The rear seat backrest is folded down toward the front.

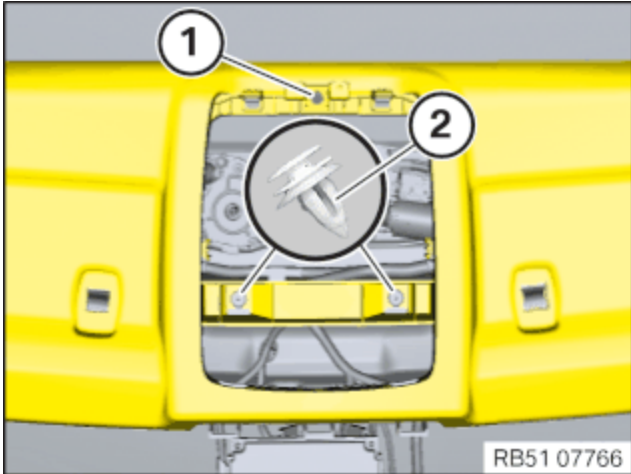
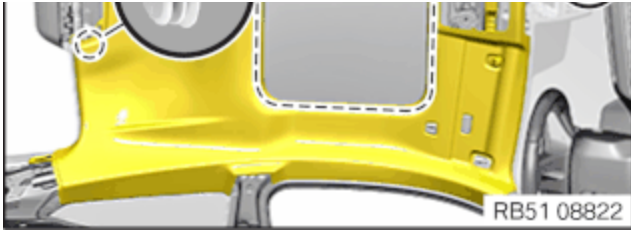


- Install the end support (1) of the sun visors in the headlining and mount with clamps (2).



- Check the clips (1) on the headlining for damage. Defective or missing clips (1) must be renewed.
- Check the clamps (2) along the dotted line for damage. Defective or missing clamps (2) need to be renewed.

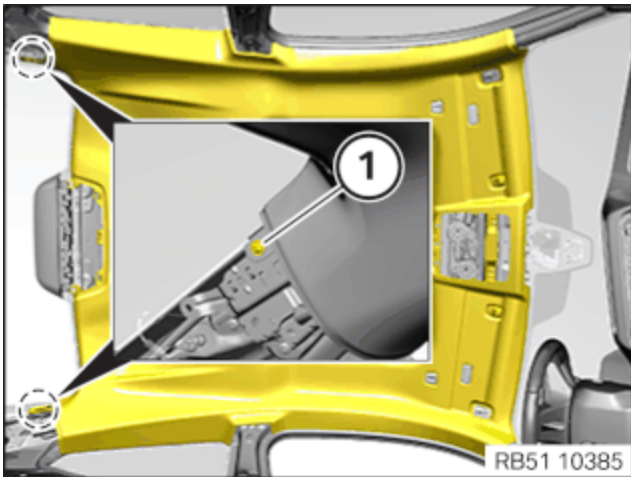




- Clip headlining to the clips (2).
- Tighten down screw (1).

Headlining to frame

Oval-head screw	Tightening torque	1,5 Nm
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- Tighten the screws (1).

Headlining to C-pillar

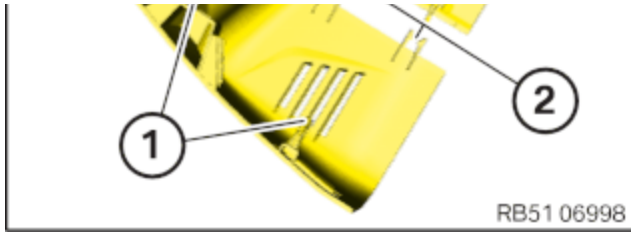
Oval-head screw	Tightening torque	1.6 Nm
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POSTPROCESSES

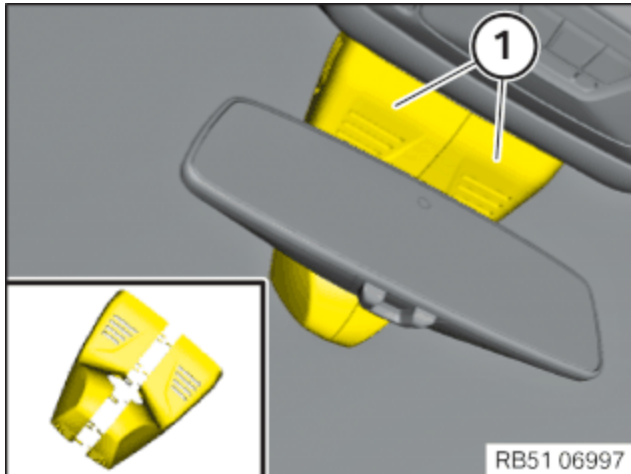
19 – Installing the covers for the interior mirror

- **Version A:**





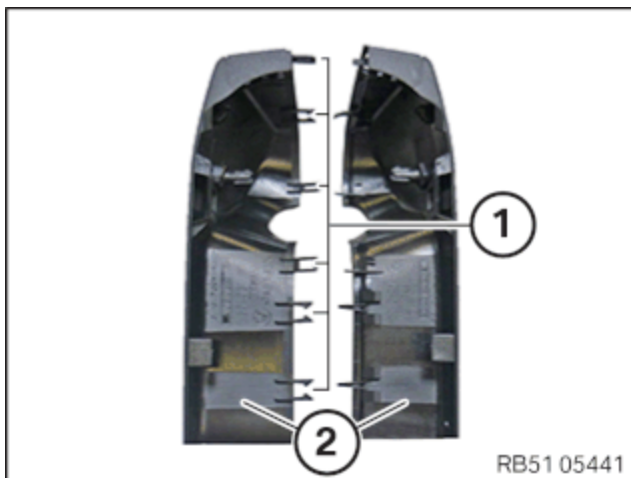
- Feed cover (1) in and lock.



- **Version B:**

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

The covers (2) must not be damaged or missing.

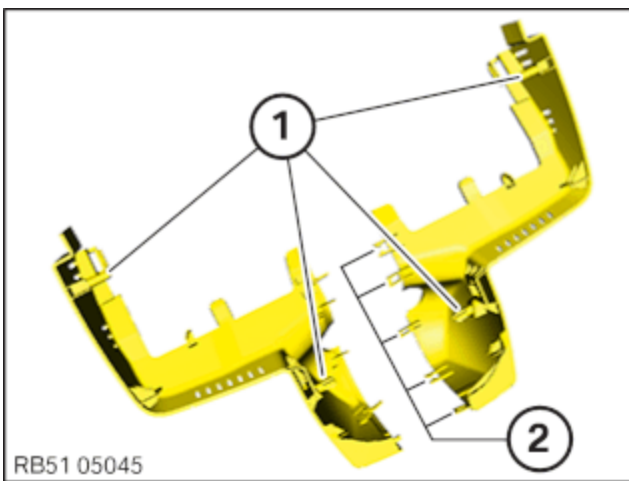




- **Version C:**

Check

- Check the latch mechanisms (1) and (2) of the covers for damage.

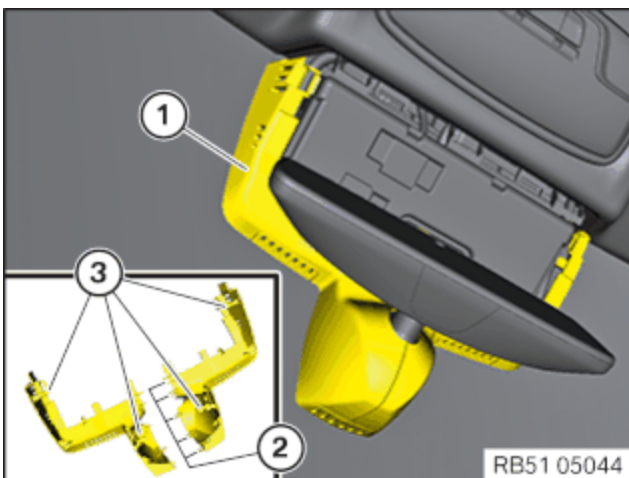


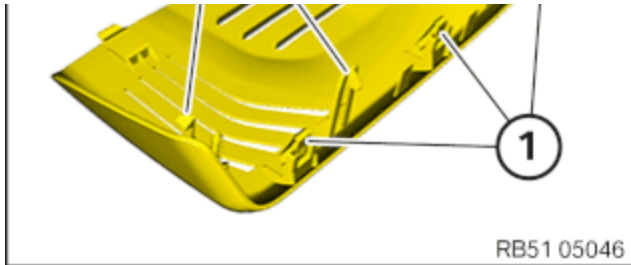
Result

- » The latch mechanism is damaged.

Measure

- Renew the cover.
- Guide in cover (1) on left and right and engage using latch mechanisms (2) and (3).



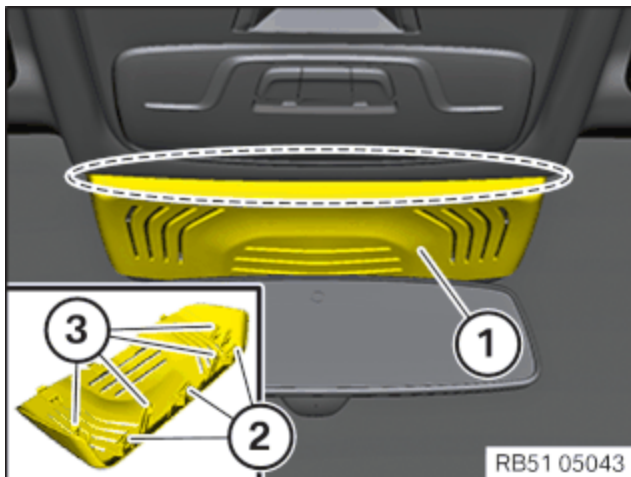


Result

» The latch mechanism is damaged.

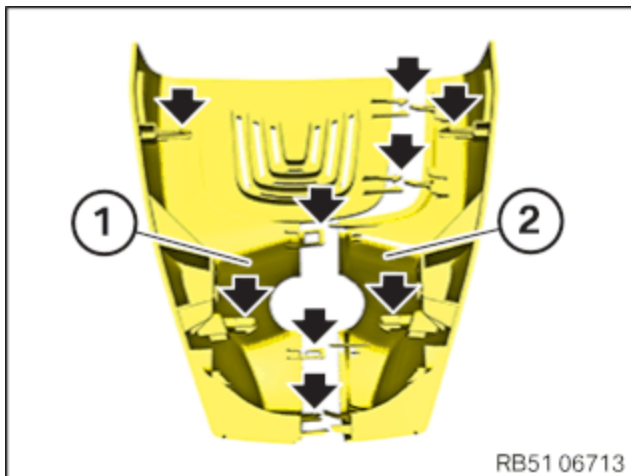
Measure

- Renew the cover.
- Guide cover (1) into front guides and engage using retaining lugs (3) and clamps (2).



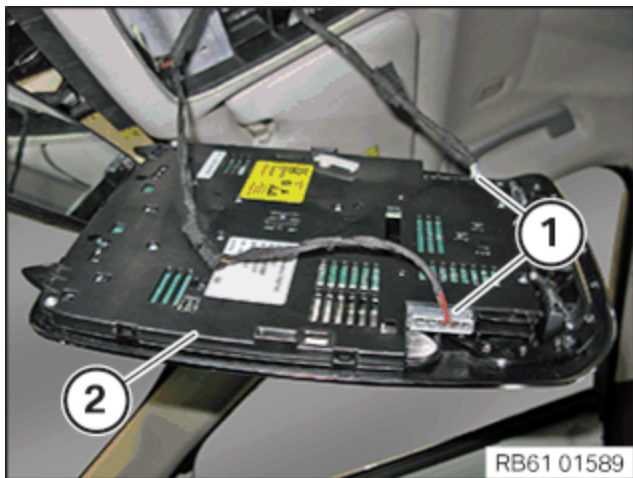
• Version D:

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

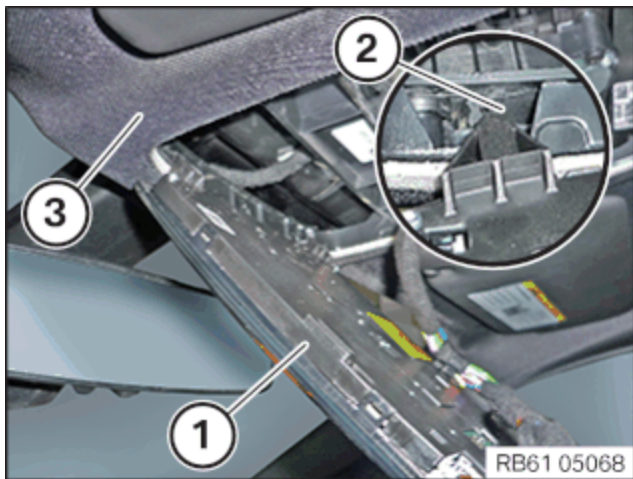




20 – Installing roof function centre (FZD)

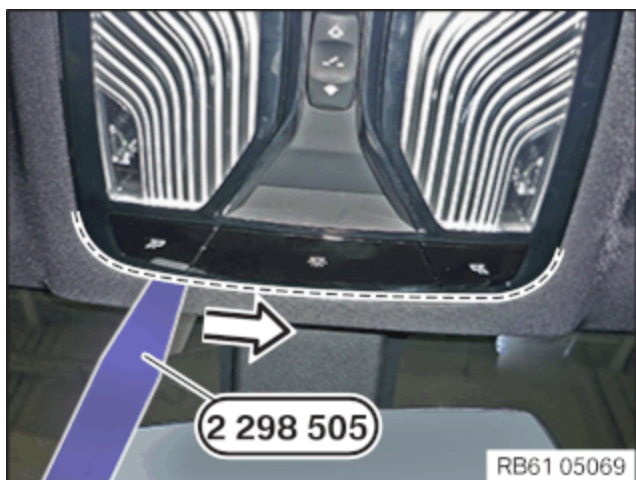


- Connect connectors (1) and lock.
- Clip in the cable for the roof function centre (FZD) (2) in the cable clip.



- Insert the roof function centre (FZD) (1) as shown at a steep angle in the two guides (2) on the headlining (3).
- Make sure the headlining is not deformed during this operation.





- Slide the special tool **2 298 505** in the direction of arrow between the FZD frame and the headlining along the dotted line to adjust the headlining correctly.



- Tighten the screws (1).

Roof function centre (FZD)

Tightening torque	1.2 Nm
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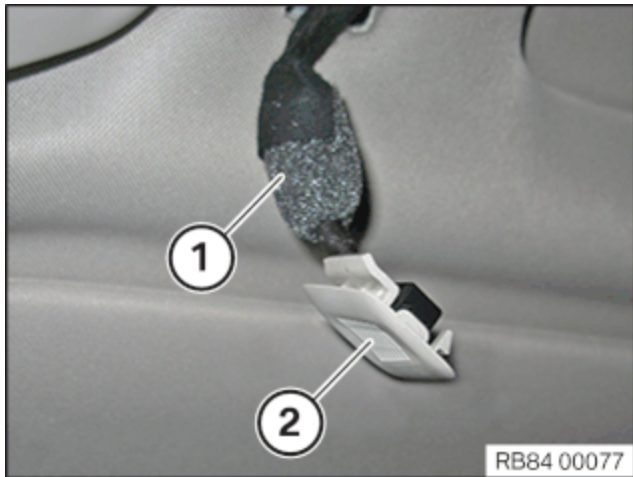


21 – Installing the hands-free microphone on the left and right

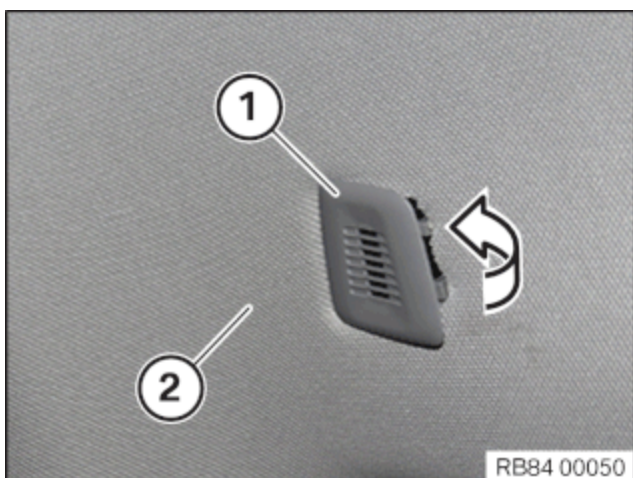


Description is for left component only. Procedure on the right side is identical.

► Installing the hands-free microphone

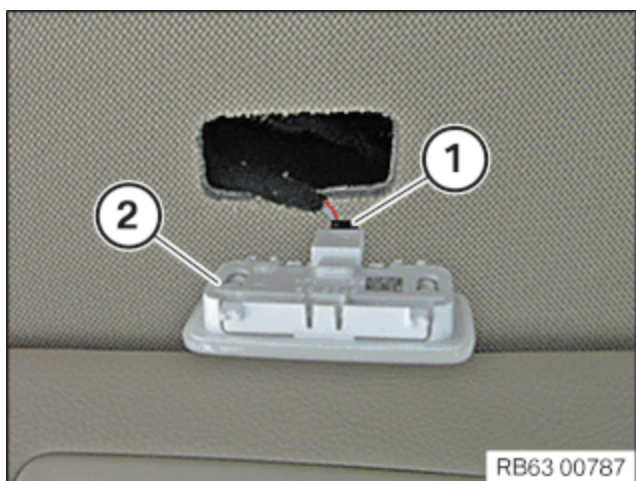


- Connect the connector to the hands-free microphone (2).
- Close the insulation (1).

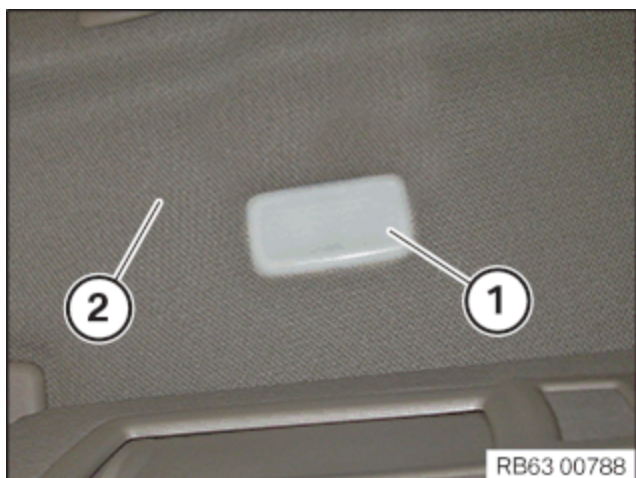


- Insert the hands-free microphone (1) in the direction of arrow in the headlining (2).





- Connect the connector (1) to the front vanity mirror light (2).



- Clip in the front vanity mirror light (1) in the headlining (2).

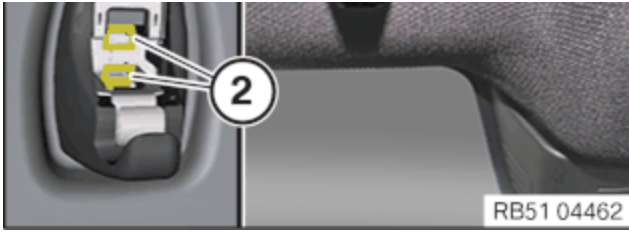
23 – Installing counter supports for the sun visor on left and right



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

- ▶ **Install the counter support for the sun visor**





24 – Install the sun visor on the left and right

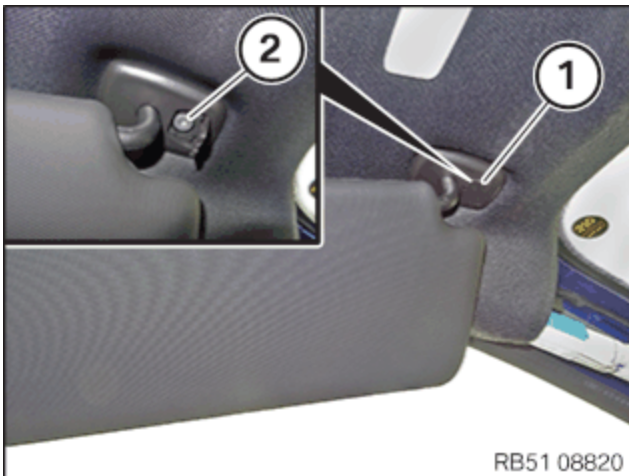


Perform the operations on the left and right side.

► Install the sun visor



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



- Connect and lock corresponding connectors.
- Install the sun visors.
- Tighten down screw (2).
- Close the cover (1).





25 – Install the A-pillar trim panel on the left and right



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

► Installing the A-pillar trim panel



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.

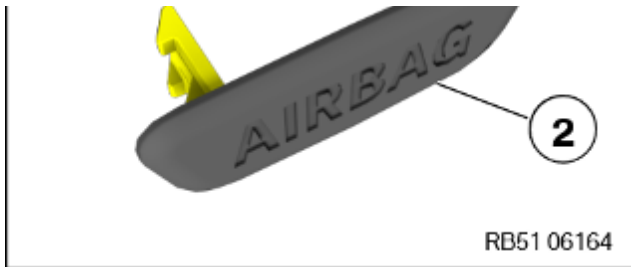


Damage to the head airbag.

Improper use of a tool when removing the trim panel may damage the head airbag.

- Do not use sharp-edged tools when removing the trim panel.





Result

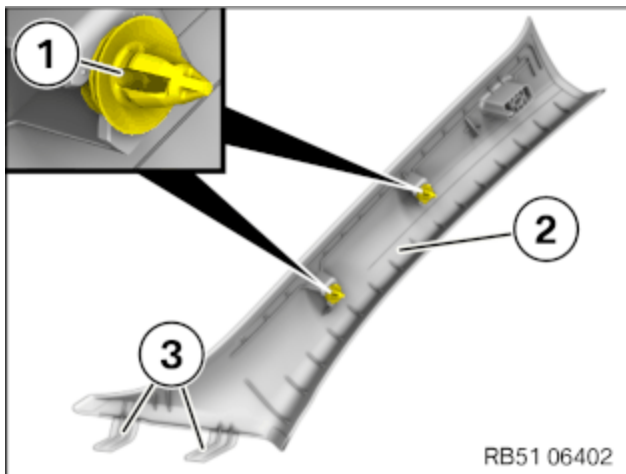
» Retaining lug is damaged.

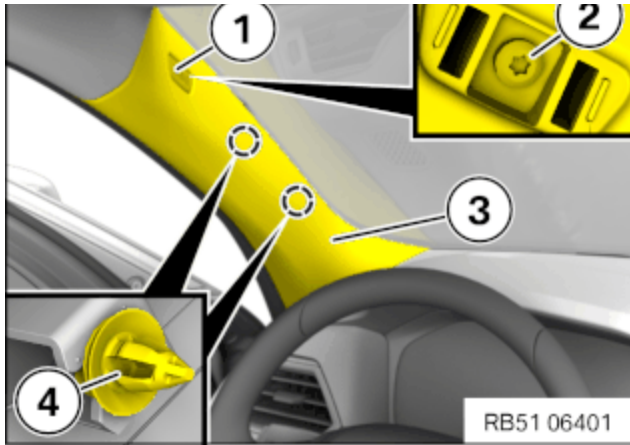
Measure

- Renew the cover.

Check

- Check the clips (1) for damage and renew if necessary.
- Check the guides (3) for damage.





with clips (4).

- Tighten down screw (2).

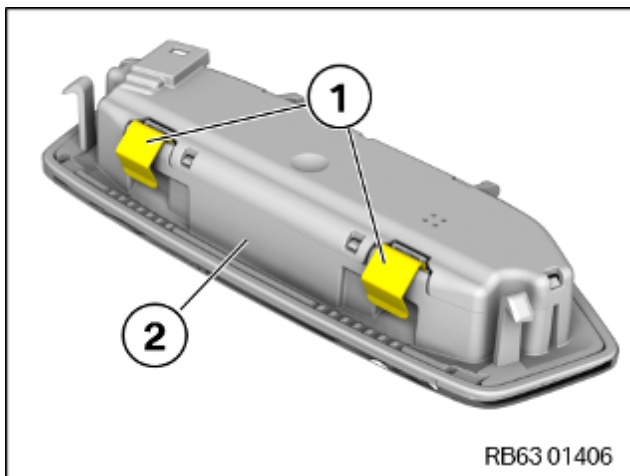
A-pillar trim panel to body

Sheet
metal
screw
4,8x38

Tightening torque 2,6 Nm

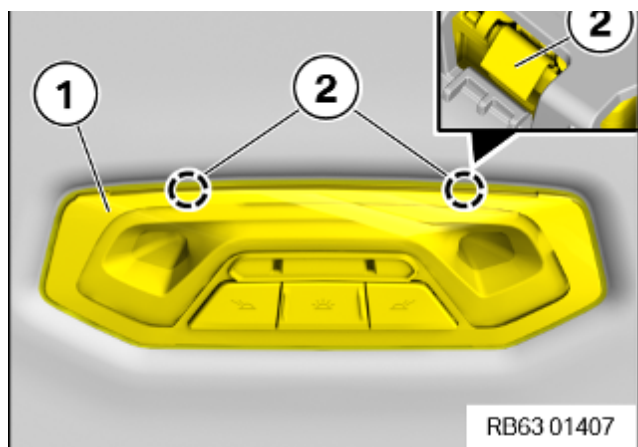
- Clip in the cover (1).

26 – Install interior roof light



Check

- Check the clamps (1) for damage.



- Clip in the interior roof light (1) with clamps (2).

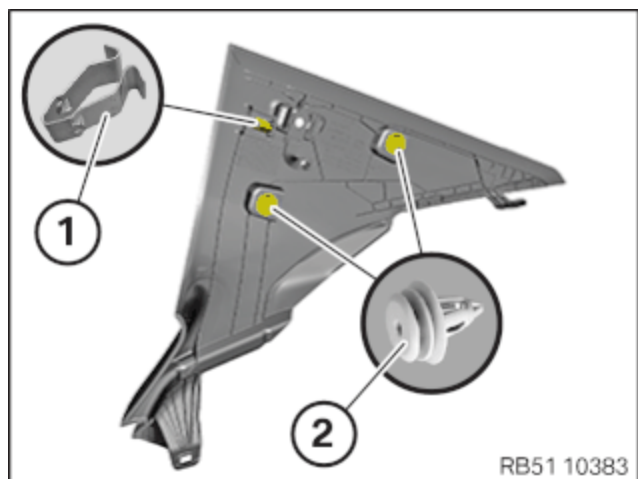
27 – Install C-pillar trim panel at left and right



Perform the operations on the left and right side.

► Installing C-pillar trim panel

- Check the clamp (1) and the clips (2) for damage and correct fit, renew if necessary.





- Tighten the screws (2).

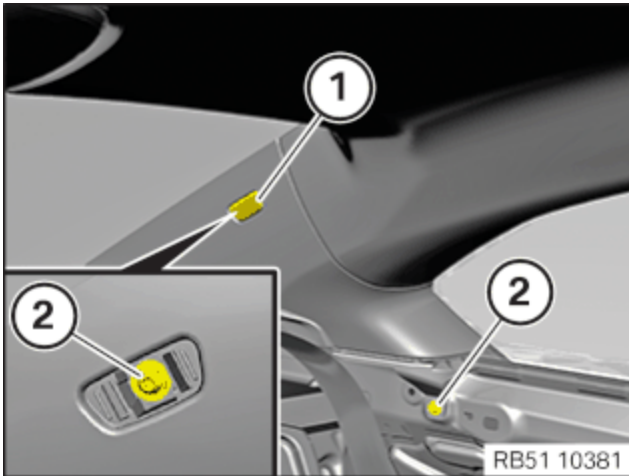
C-pillar trim panel to body

Sheet
metal
screw

Tightening
torque

2 Nm

- Clip in the cover (1).



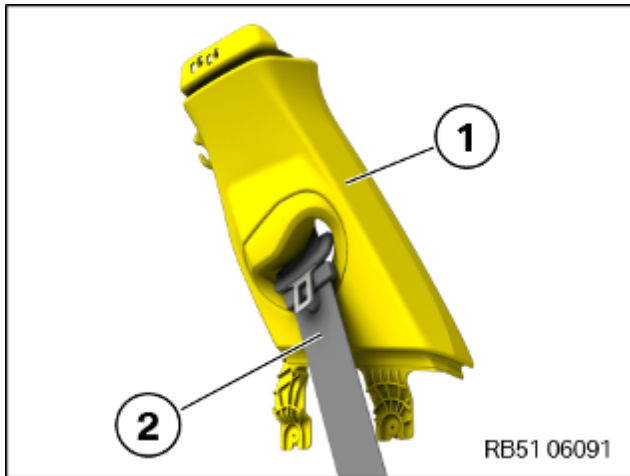
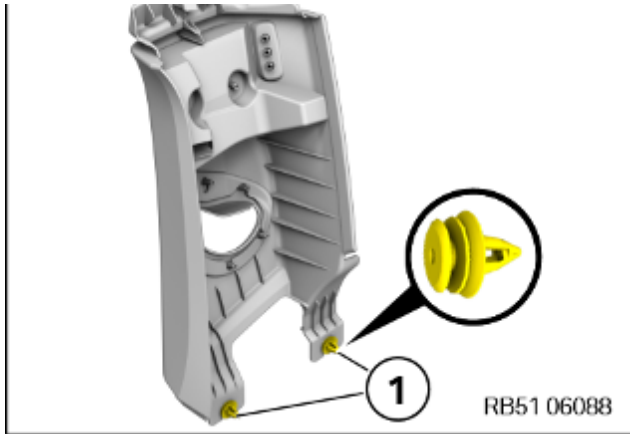
28 – Installing the left and right B-pillar trim panel



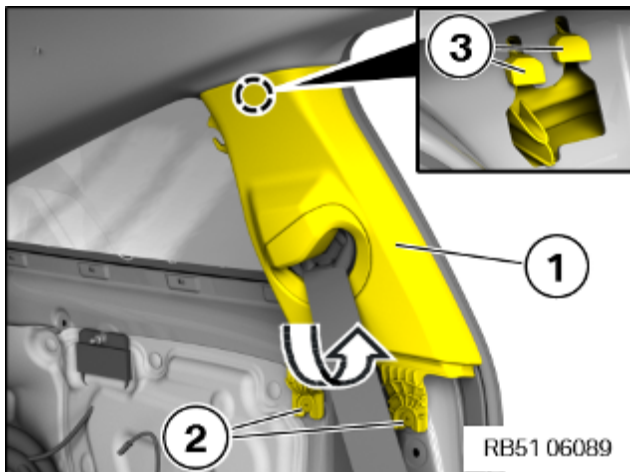
Perform the operations on the left and right side.

► Install the B-pillar trim panel





- Guide upper seat belt (2) in B-pillar trim panel (1).



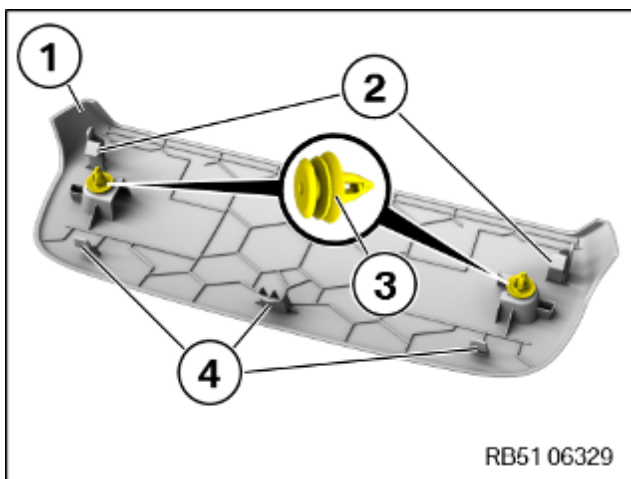
- Insert B-pillar trim panel (1) in direction of arrow into the guides (3) and under the lip of edge protection.
- Clip in the B-pillar trim panel (1) with the clips (2).





• Install the protective cap (1).

29 – Installing trim for additional brake light



Check

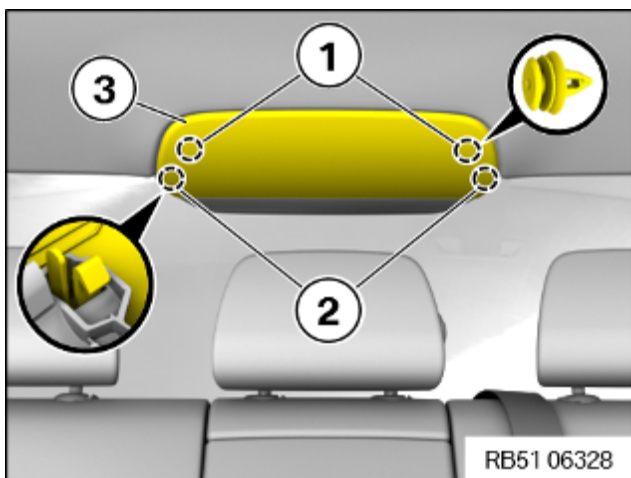
- Check the clips (3) for damage and renew if necessary.
- Check latch mechanisms (2) and guides (4) for damage.

Result

» The latch mechanism or the guide is damaged.

Measure

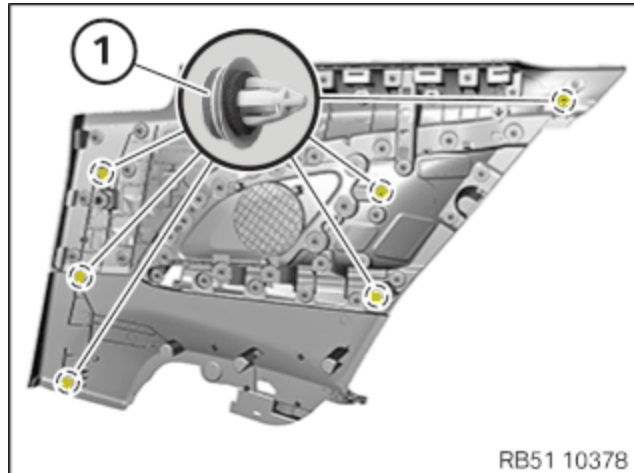
- Renew the trim for the additional brake light.
- Position trim for additional brake light (1) from the bottom and clip it in with latch mechanisms (2).
- Clip in clips (1).



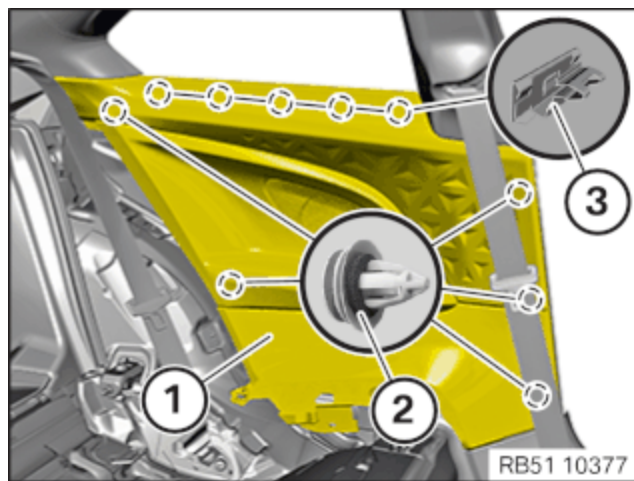
► Install rear side trim panel

Prerequisite

Rear seat bench is folded.



- Check clips (1) for damage and renew if necessary.



- Connect all the plug connections of the wiring harness on the rear side trim panel (1) and lock them.
- Position the rear side trim panel (1) and clip it into the clamps (3).
- Clip the rear side trim panel (1) into the clips (2).

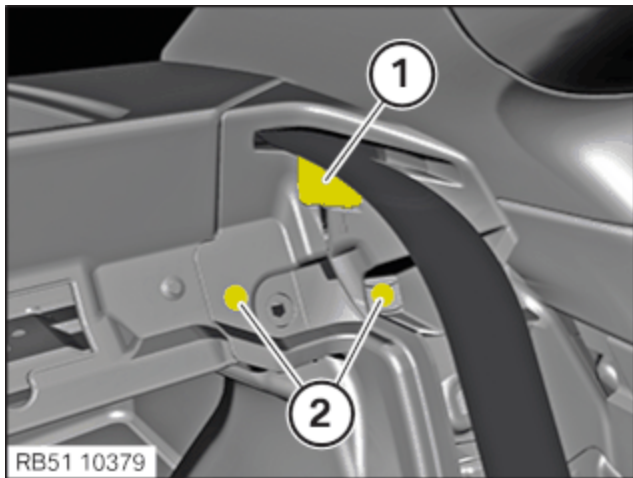
31 – Install the left and right belt feed trims



Perform the operations on the left and right side.

► Installing the belt feed trim





- Secure expanding rivet (2).
- Clip in the trim (1).

32 – Installing the inner door sill cover strip on the left and right



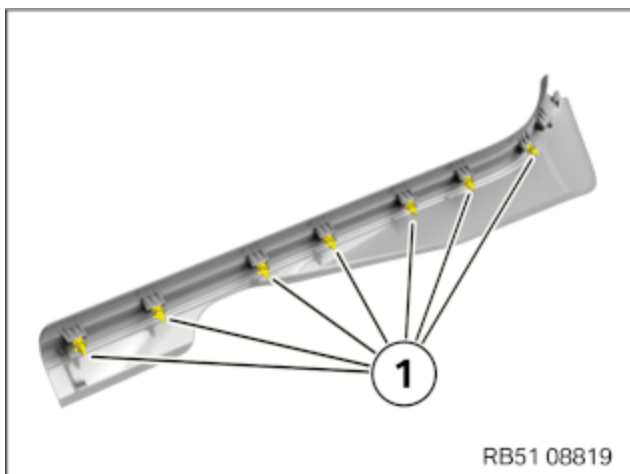
Description is for left component only. Procedure on the right side is identical.

► Installing the inner door sill cover strip



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

- Check the clips (1) for damage and renew if necessary.





33 – Install the backrest side section on the left and right

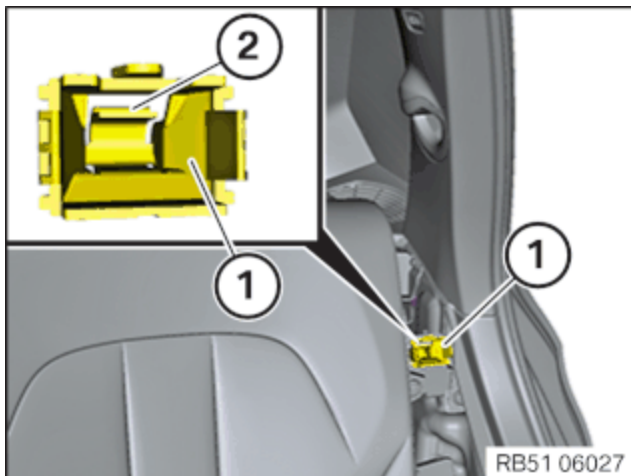


Description is for left component only. Procedure on the right side is identical.

► Installing backrest side section

▷ Installing backrest side section

- Release mounting element (1) from latch mechanism (2) and remove it from the body.
- Check the mounting element (1) for damage, renew if necessary.
The mounting element (1) must not be damaged or missing.
- Fit mounting element (1) on the backrest side section.





▷ Installing the backrest side section with side airbag



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



Pyrotechnic components.

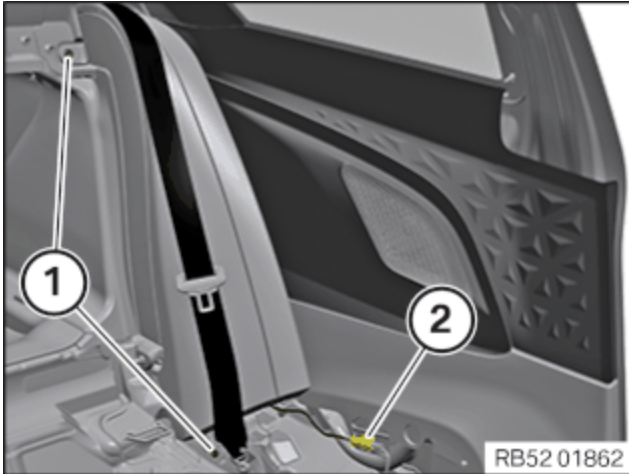
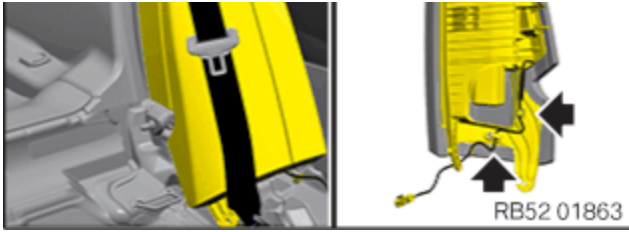
Danger! Life-threatening injuries!

- 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.



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





- Tighten the screws (1).

Backrest side section to body

M6x30

Tightening
torque

8 Nm

- Connect connectors (2) and lock.
The connector (2) must engage audibly.



▷ **Connecting all battery earth leads**

- See additional information.

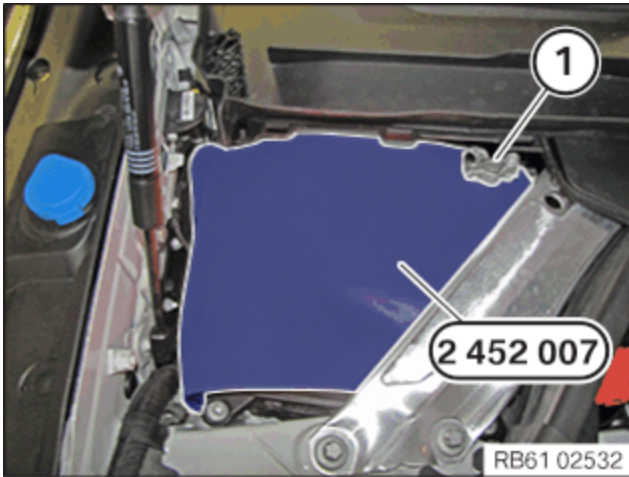


▷ **Activating the 48 V electrical system**

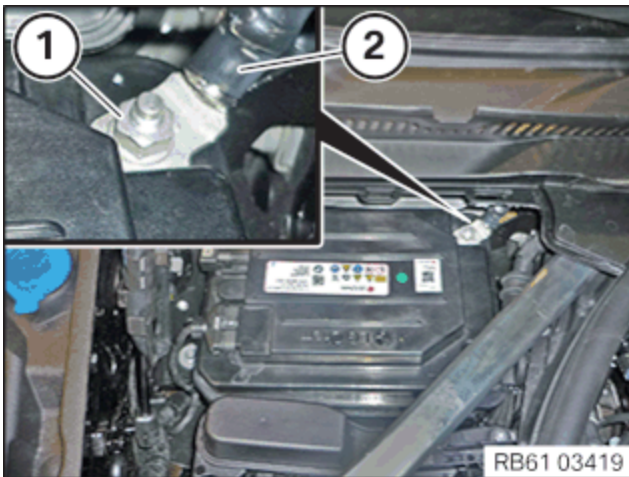
Prerequisite

electronics will be damaged.

- Only carry out activation of the 48V electrical system with a completely connected 48-V battery.



- Lift battery earth lead (1).
- Remove special tool .



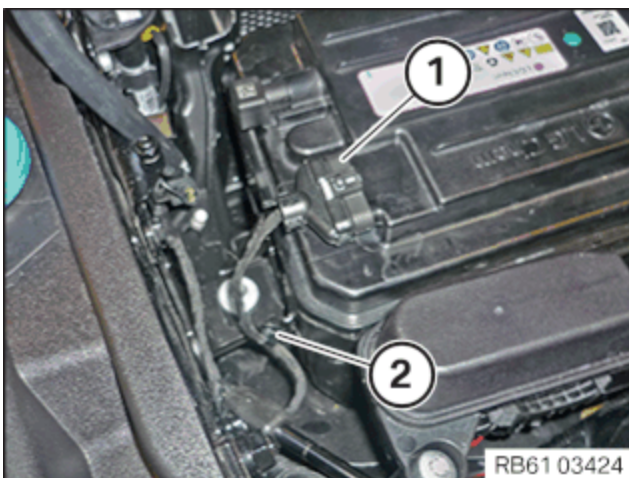
- Release the negative battery cable (2) of the 48-V battery from the mounting.
- Position the negative battery cable (2) of the 48-V battery on the negative battery terminal.
- Tighten nut (1).

Negative battery cable to 48-V battery

Nut M8

Tightening
torque

19 Nm

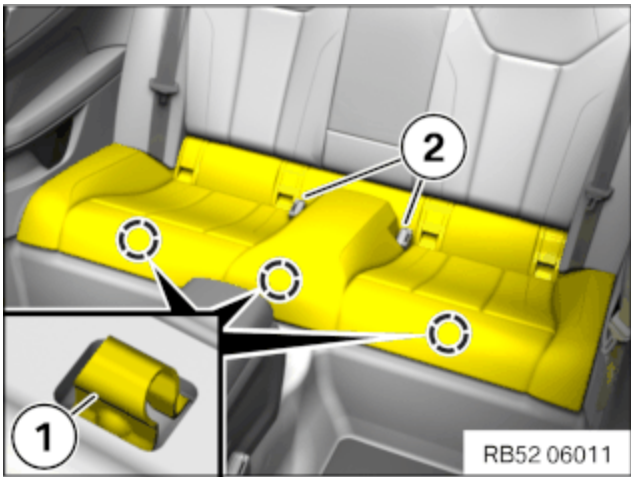


- Connect the connector (1) of the CAN bus and lock it.
- Clip in clip (2).





34 – Installing the rear seat bench



- Feed in the seat belt buckles (2).
- Position the rear seat bench and clip into the clamps (1).

Additional Information

Overview of Tightening Torques

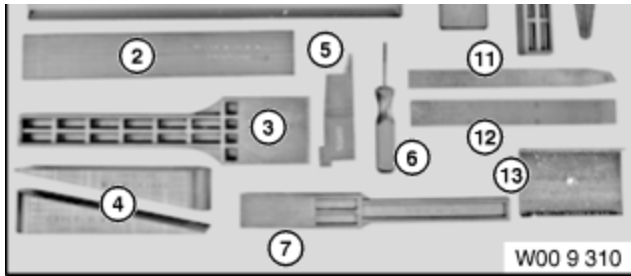
Headlining to frame		Used in step	18
Oval-head screw	Tightening torque		1,5 Nm
Headlining to C-pillar		Used in step	18
Oval-head screw	Tightening torque		1.6 Nm
Roof function centre (FZD)		Used in step	20
	Tightening torque		1.2 Nm



Sheet metal screw	Tightening torque	2 Nm
End fitting to body		Used in step 28
Screw	Tightening torque	42 Nm
Backrest side section to body		Used in step 33
M6x30	Tightening torque	8 Nm
Negative battery cable to 48-V battery		Used in step 33
Nut M8	Tightening torque	19 Nm

Overview of Special Tools





included in the tool or work 0 490 527

Storage location Individual

Replaced by

In connection with

SI-Number 01 07 09 (530)

0 496 569 (00 9 325) Wedge



Common Used in step [13](#)

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

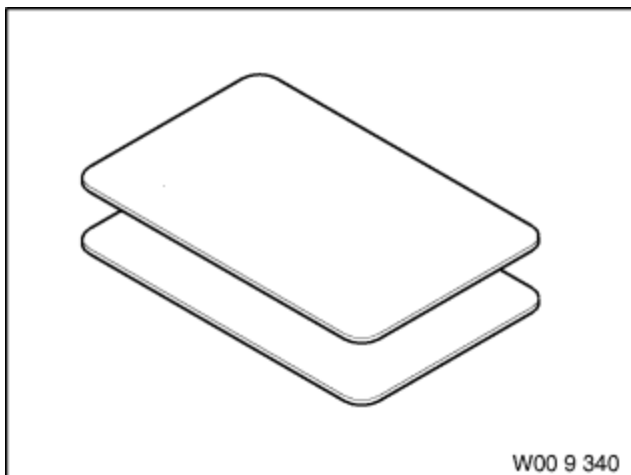
Storage location Individual

Replaced by

In connection with

SI-Number 41 01 09 (507)

0 493 687 (00 9 340) Removal aid



Common Used in step [14](#)

Usage (Dismantling aid (2 pieces))

Included in the tool or work

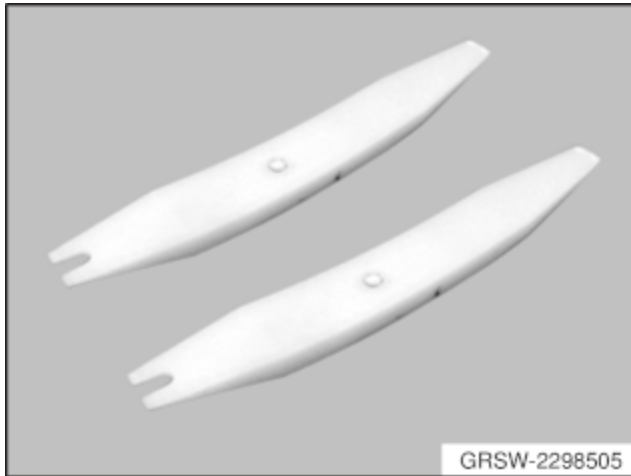
Storage location C2

Replaced by

In connection with

1	0 496 289 (00 9 341)	Removal aid Only available as a set (2 tools) under 00 9 340 (= 83 30 0 493 687).
---	--	---

2 298 505 Wedge



Common	Used in step 20
Usage	Set (delivery of 2 pieces)
Included in the tool or work	
Storage location	C34
Replaced by	
In connection with	
SI-Number	01 03 12 (792)

Links

Repair instructions (PRE) **Used in step**

[Notes on 48-V battery](#) 2 33

General repair instructions **Used in step**

[72 00 ... Safety regulations for handling components with gas generators](#) 2 10 33

[72 00 ... Safety regulations for handling components with gas generators](#) 10

Repair instructions **Used in step**

[61 20 900 Disconnecting and connecting the battery earth lead \(all battery earth leads\)](#) 2 33

[61 20 900 Disconnecting and connecting battery earth lead](#) 2 33

[61 20 900 Disconnecting and connecting battery earth lead](#) 2 33

[61 20 900 Disconnecting and connecting battery earth lead](#) 2 33

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