BMW G42 M240i xDrive Coupe / Repair Manuals and Technical Data / 51 Body equipment / 51 44 Headlining /

51 44 921 Releasing and securing the headlining with the SHD on the right



Fold the headlining.

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

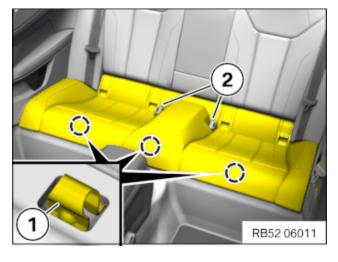
- Carry out tasks with a second person to assist.
- Support the headlining at the front and back.



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

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 armrest side section

▶ Remove armrest side section

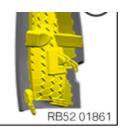


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Deactivating the 48 V electrical system

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

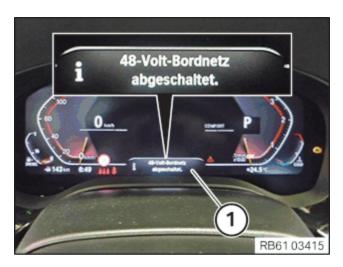
If a 48-V battery that is disconnected from the electrical system is activated, the battery electronics will be damaged.

 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

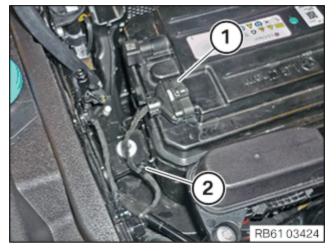
The Check Control message signals that the 48V electrical system has been switched off.

Measure

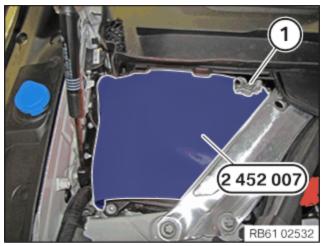
 Exit PAD mode by pressing the START-STOP button once without depressing the brake pedal.

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



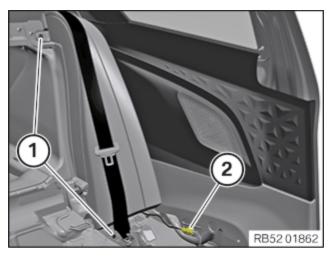
Pyrotechnic components.

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



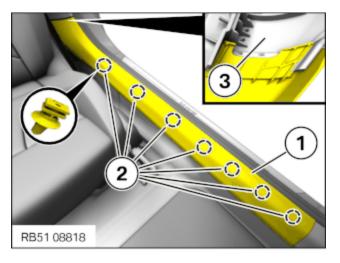
Bending of plastic parts.

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

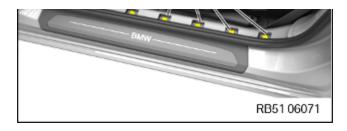
- Place special tool directly beside the mounting clip.
- Continue unclipping the part without using the tool if possible.



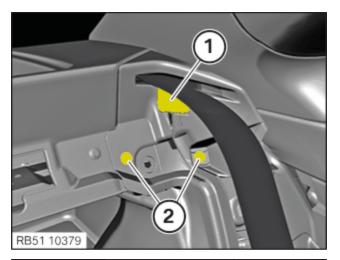
Schematic diagram is for example purposes. Some parts may differ in certain details.



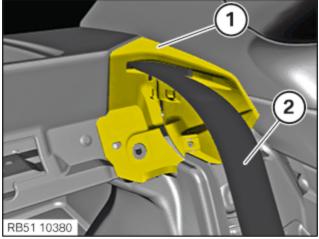
- Release door sill cover strip (1) with clips (2) starting from the front using a suitable special tool from the set of special tools <u>0 493 752 (00 9 329)</u>.
- Guide out and remove door sill cover strip (1) under the rear side trim panel (3).



4 - Remove the belt feed trim

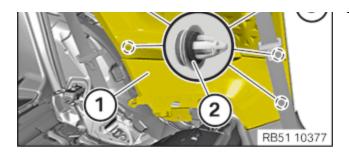


- Unclip the trim (1) with a suitable tool.
- Release the expanding rivet (2).



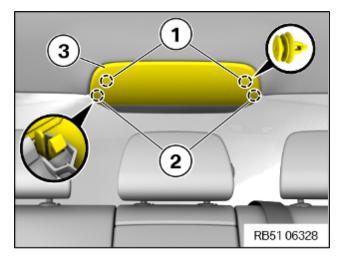
• Unclip the seat belt feed trim (1) and feed it out from the seat belt (2).

5 – Remove rear side trim panelPrerequisite



wiring harness on the rear side trim panel (1).

6 - Removing the trim of the additional brake light

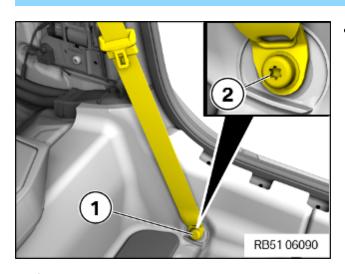


- Loosen the clips (1).
- Release the latch mechanisms (2) and remove the trim of the additional brake light (3).

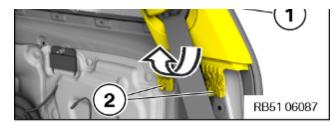
7 - Remove the B-pillar trim panel

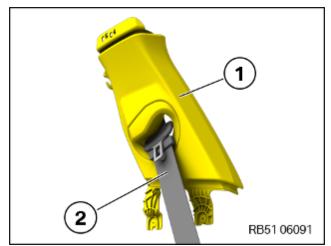


Schematic diagram is for example purposes. Some parts may differ in certain details.



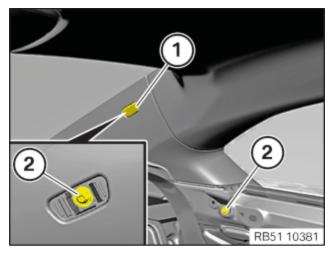
Remove cover cap (1) and release screw (2).



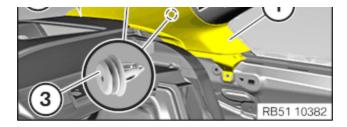


• Feed upper seat belt (2) out of B-pillar trim panel (1).

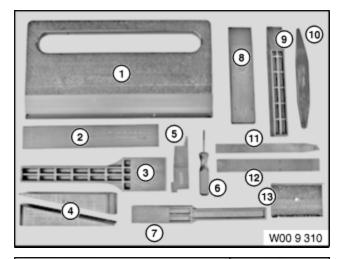
8 - Remove C-pillar trim panel



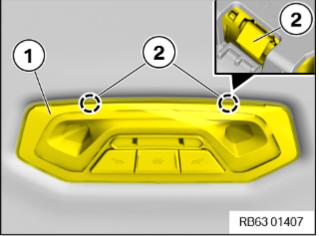
- Unclip the cover (1).
- Loosen screws (2).



9 - Remove interior roof light



Have the set of special tools <u>0 493 752 (00 9 329)</u> ready.



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

Panger. Ene uneatering injuries.

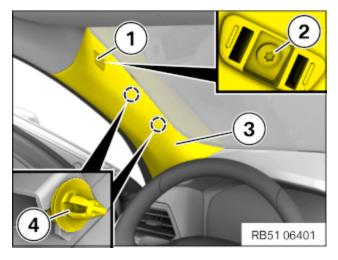
- All work on pyrotechnic parts may be carried out by technically experienced and appropriately trained personnel only.
- Replace any damaged part or ones that have been dropped.
- For additional information see: 72 00 Safety regulations on handling components with gas generators.



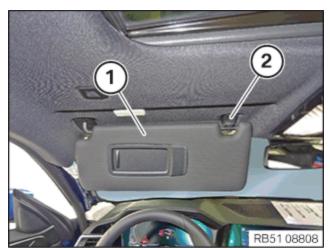
Damage to the head airbag.

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

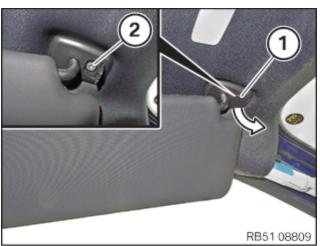
Do not use sharp-edged tools when removing the trim panel.



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

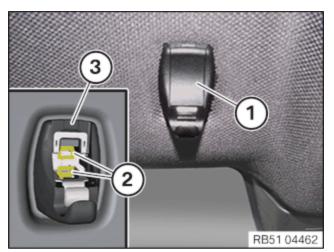


 Detach sun visors (1) from end support (2) and swivel to the side.

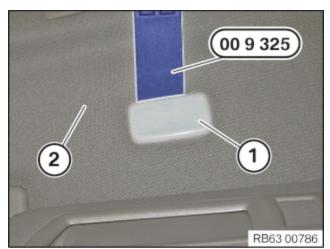


- Fold the cover (1) up in direction of arrow.
- Loosen screw (2).
- Remove sun visor and unlock and disconnect the associated plug connection.

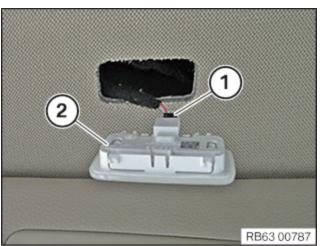
12 - Remove the counter support for the sun visor



- Pull out the cover (1).
- Push the clamps (2) together and pull the counter support (3) out of the headlining.



 Lever out the front vanity mirror light (1) with the special tool <u>0 496 569 (00 9 325)</u> from the headlining (2).



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

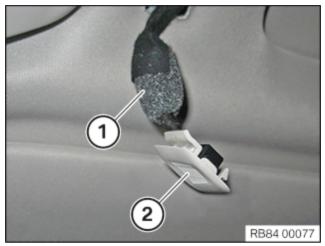
14 - Remove left and right hands-free microphone



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

► Removing hands-free microphone





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

15 - Removing the roof function centre (FZD)

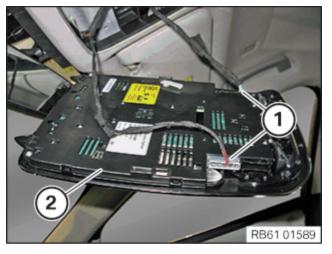


• Unclip the cover (1).





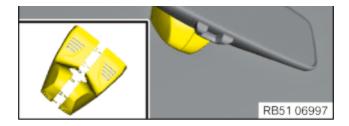
- Unclip the roof function centre (FZD) (1) from the clamps (2).
- Thread the roof function centre (FZD) (1) out of the guides (3).

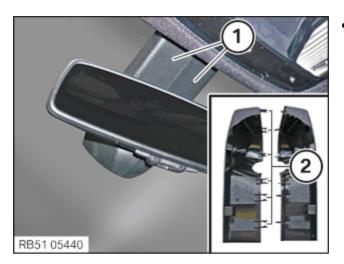


- Unlock and disconnect plug connections (1).
- Unclip the cable clip from roof function centre (FZD)
 (2) and remove the roof function centre (FZD) (2).

16 - Removing the covers for the interior mirror

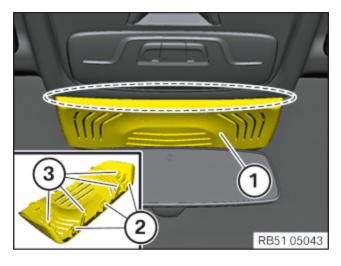
Version A:





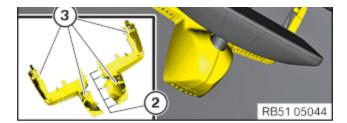
Version B:

 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.



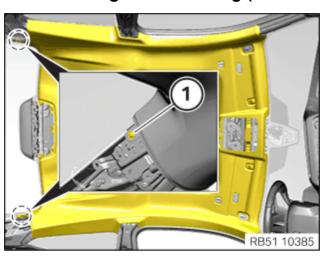


Version D:

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

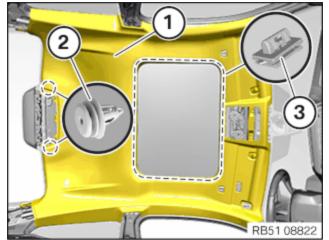
MAIN WORK

17 - Lowering the headlining (with slide / tilt sunroof), left or right



• Loosen screws (1).





- 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.

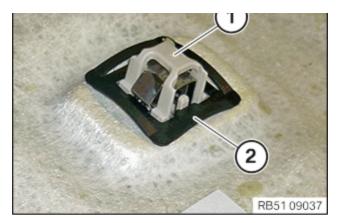


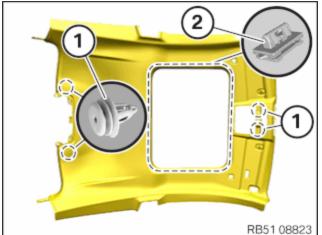


Schematic diagram is for example purposes. Some parts may differ in certain details.

- Guide out the headlining at the respective edge protection.
- Lower the headlining and place it onto the head restraints as shown.

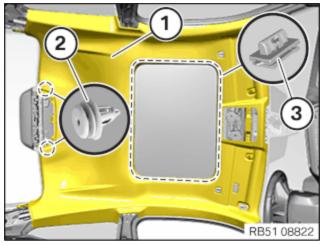
18 – Install the headlining (with slide/tilt sunroof) (lowered) Prerequisite





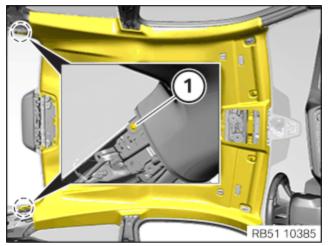
- Check the clips (1) on the headlining for damage.
 Defective or missing clips (1) must be renewed.
- Check the clamps (2) along the dotted line for damage.

Defective or missing clamps (2) need to be renewed.



- Insert the headlining (1) with the help of an auxiliary person onto the respective edge protection.
- Clip in headlining (1) on the clips (2).
- Clip the headlining (1) in the area of the dotted line at the slide/tilt sunroof unit and the clamps (3).





• Tighten the screws (1).

Headlining to C-pillar

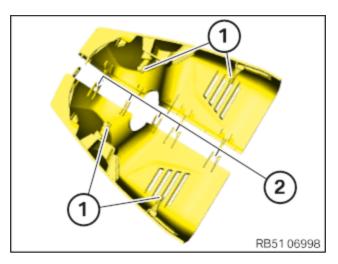
Oval-head screw

Tightening torque

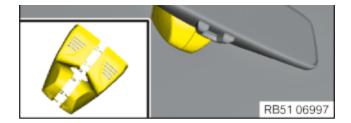
1.6 Nm

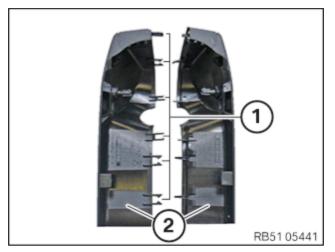
POSTPROCESSES

19 - Installing the covers for the interior mirror



- Version A:
- Check latch mechanisms (1) and (2).
- If the latch mechanisms (1) or (2) are faulty, renew the covers.

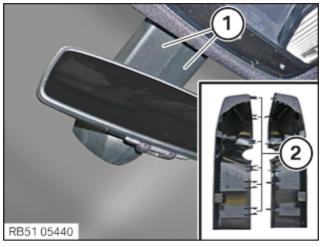




Version B:

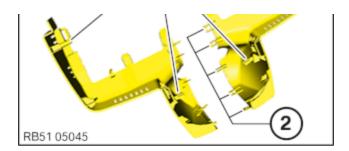
• Check the latch mechanisms (1) on the two covers (2) for damage, renew the covers (2) if necessary.

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



• Position the covers (1) correctly on the mirror and engage with the latch mechanisms (2).

Version C:

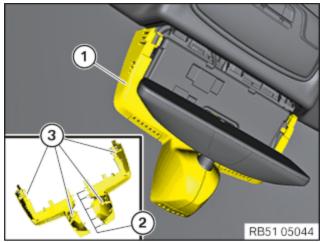


Result

>> The latch mechanism is damaged.

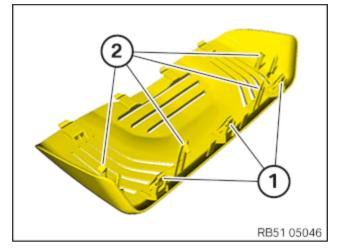
Measure

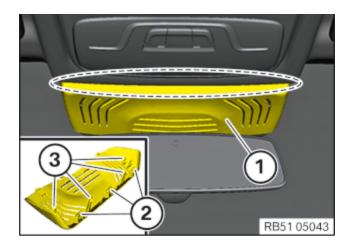
- Renew the cover.
- Guide in cover (1) on left and right and engage using latch mechanisms (2) and (3).



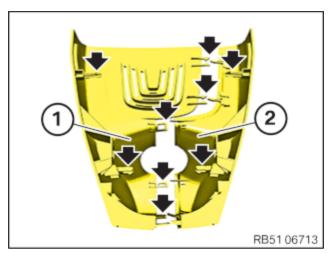
Check

- Check clamps (1) for damage; renew if necessary.
- Check latch mechanisms (2) for damage.



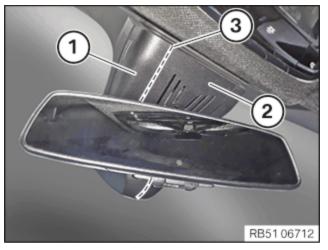


retaining lugs (3) and clamps (2).



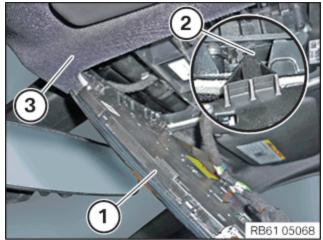
Version D:

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



• Position covers (1) and (2) correctly on the mirror and engage at the separation point (3).





- 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.



• Clip the roof function centre (FZD) (1) upwards into the clamps (2).





• Tighten the screws (1).

Roof function centre (FZD)

Tightening 1.2 Nm torque



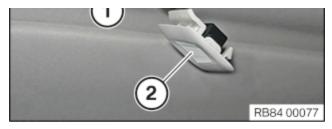
• Clip in the cover (1).

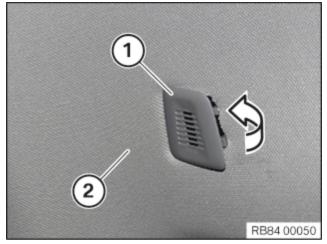
21 - Installing the hands-free microphone on the left and right



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

► Installing the hands-free microphone



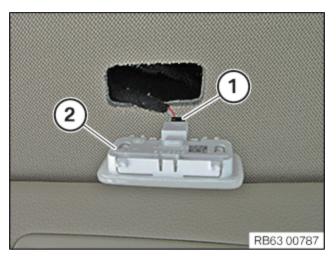


• Insert the hands-free microphone (1) in the direction of arrow in the headlining (2).

22 - Installing front vanity mirror light



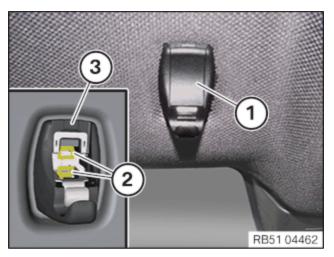
Description is for left component only. Procedure on the right side is identical.



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



23 - Install the counter support for the sun visor

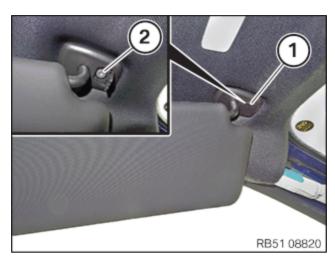


- Insert the counter support (3) into the headlining.
- Make sure the clamps (2) are engaged correctly.
- Use cover (1).

24 - 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 - Installing the A-pillar trim panel



Pyrotechnic components.

Danger! Life-threatening injuries!

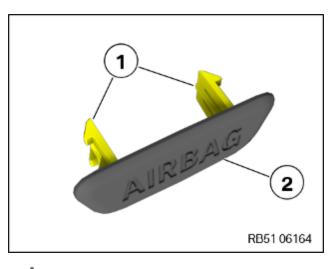
- All work on pyrotechnic parts may be carried out by technically experienced and appropriately trained personnel only.
- Replace any damaged part or ones that have been dropped.
- For additional information see: 72 00 Safety regulations on handling components with gas generators.



Damage to the head airbag.

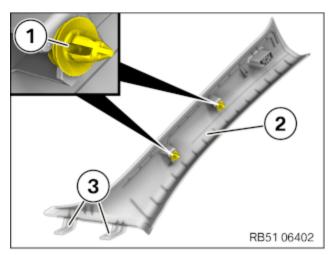
Improper use of a tool when removing the trim panel may damage the head airbag.

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



Check

Check retaining lugs (1) of cover (2) for damage.



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

Result

» Guide is damaged.

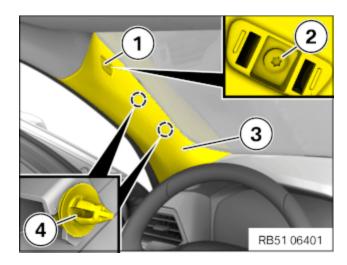
Measure

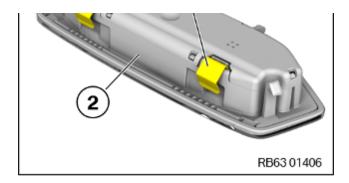
- Renew the A-pillar trim panel.
- Guide in A-pillar trim panel (3) downwards and clip it in with clips (4).
- Tighten down screw (2).

A-pillar trim panel to body

Sheet metal screw 4,8x38 Tightening 2,6 Nm torque

• Clip in the cover (1).



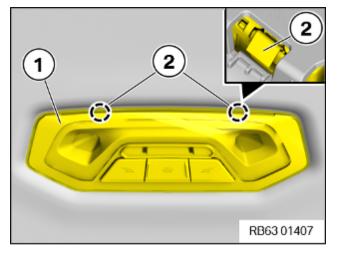


Result

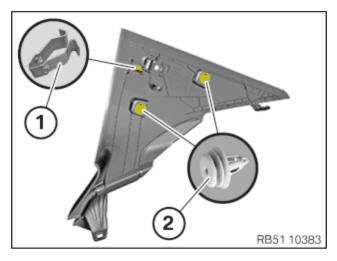
» Clamps (1) are damaged.

Measure

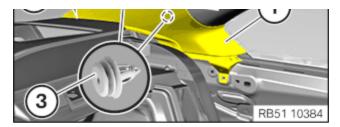
- Renew the interior roof light (2).
- · Connect connectors and lock.
- Clip in the interior roof light (1) with clamps (2).

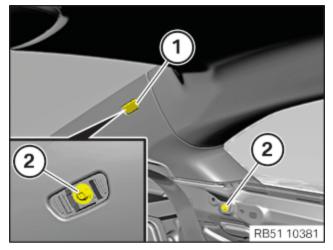


27 - Installing C-pillar trim panel



• 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

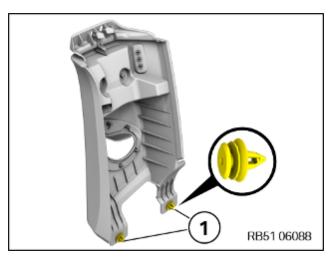
Sheet Tightening 2 Nm metal torque screw

• Clip in the cover (1).

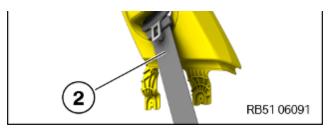
28 - Install the B-pillar trim panel

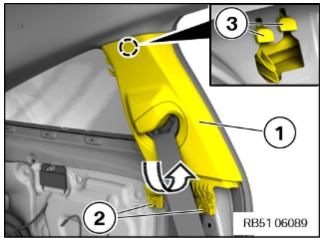


Schematic diagram is for example purposes. Some parts may differ in certain details.

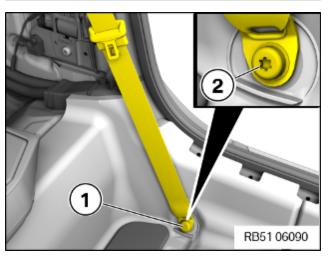


• Check clips (1) for damage and renew if necessary.





- 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).



• Tighten down screw (2).

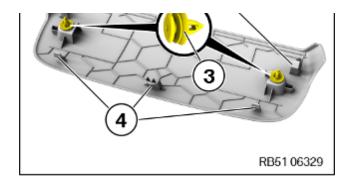
End fitting to body

Screw

Tightening torque

42 Nm

• Install the protective cap (1).



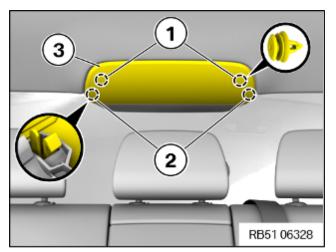
aumage

Result

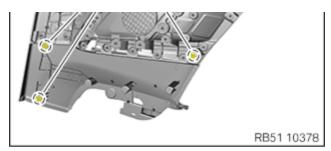
>> The latch mechanism or the guide is damaged.

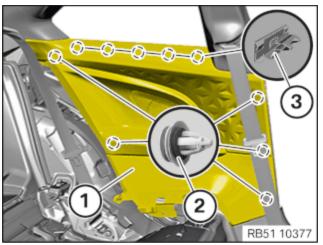
Measure

- 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).



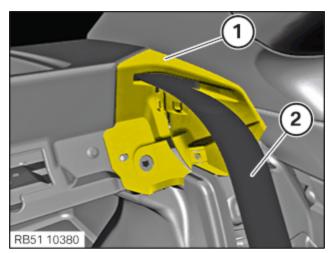
30 – Install rear side trim panel Prerequisite



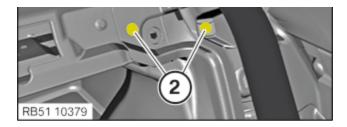


- Connect all the plug connections of the wiring harness on the rear side trim panel (1) and lock them.
- Position the rear side trim panel (1) and clip it into the clamps (3).
- Clip the rear side trim panel (1) into the clips (2).

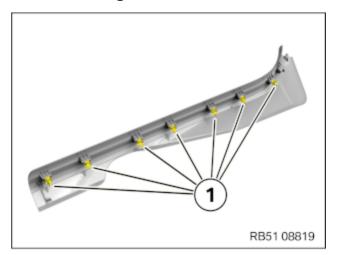
31 - Installing the belt feed trim



- Feed in the seat belt feed trim (1) at the seat belt (2).
- Position the seat belt feed trim (1) and clip it in.



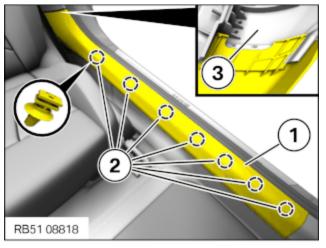
32 - Installing the inner door sill cover strip





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

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



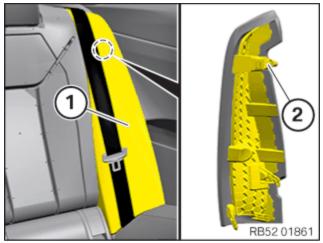
- Insert the door sill cover strip (1) below the rear side trim panel (3).
- Clip the door sill cover strip (1) in with the clips (2).

33 - Installing backrest side section

► Installing backrest side section



• Fit mounting element (1) on the backrest side section.



- Insert lower backrest side section (1) into the guide and position it correctly.
- Clip in backrest side section (1) to mounting element (2).

► Installing the 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



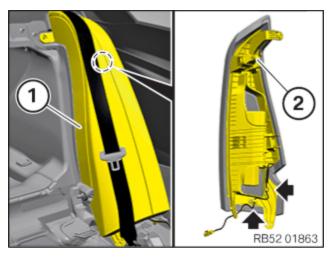
Pyrotechnic components.

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.



- · Check the cable (arrows) for correct fit.
- Feed the backrest side section (1) into the bottom guide and position it correctly.
- Clip in backrest side section (1) to mounting element (2).



- Connect Connections (2) and look.

The connector (2) must engage audibly.



► Connecting all battery earth leads

See additional information.

► Activating the 48 V electrical system

Prerequisite

Ignition is switched off.



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.

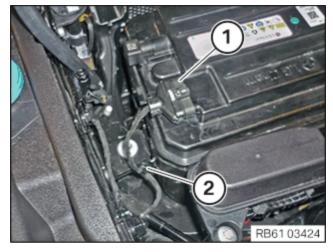




- Release the negative battery cable (2) of the 48-V battery from the mounting.
- Position the negative battery cable (2) of the 48-V battery on the negative battery terminal.
- Tighten nut (1).

Negative battery cable to 48-V battery

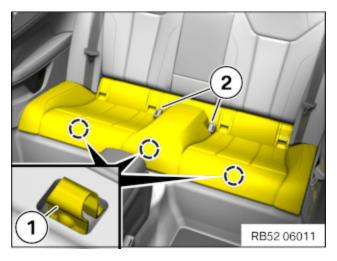
Nut M8 Tightening 19 Nm torque



- 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

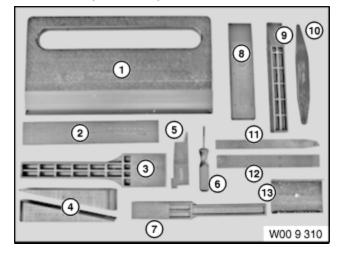
Overview of Tightening Torques

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	
A-pillar trim panel to body		Used in step 25	
Sheet metal screw 4,8x38	Tightening torque	2,6 Nm	
^			

Backrest side section to bodyUsed in step 33M6x30Tightening torque8 NmNegative battery cable to 48-V batteryUsed in step 33Nut M8Tightening torque19 Nm

Overview of Special Tools

0 493 752 (00 9 329) Case

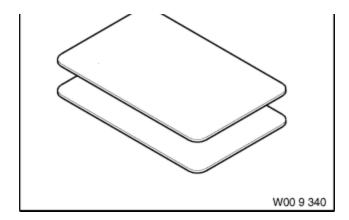


Common	Used in step	3	9	10
Usage	(Case) with insert without mounting wedges, delivery while stocks last - as of 02/2019.			
Included in the tool or work	0 490 527			
Storage location	Individual			
Replaced by				
In connection with				
SI-Number	01 07 09 (530)			

0 496 569 (00 9 325) Wedge



Common		Used in step	13
Usage	(Panel wedge) From 11/2 special tool replaces par 317 (different material)		9
Included in the tool or work	0 490 527		
Storage location	Individual		
Replaced by			
In connection			



Usaye (Distriativity aid (2 pieces))

Included in the tool or work

Storage C2 location

Replaced by

In connection

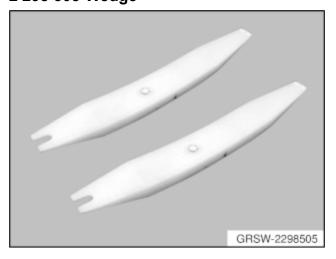
with

SI-Number 01 15 99 (483)

Consisting of

Pos	BMW Order number	Replaced by	Designation	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 piece	es)	
Included in the tool or work			
Storage location	C34		
Replaced by			
In connection with			
SI-Number	01 03 12 (792)		

Links



72 00 ... Safety regulations for handling components with gas generators

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 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 61 20 900 Disconnecting and connecting the battery earth lead (all battery earth leads) 2 33 61 20 900 Disconnecting and connecting the battery earth lead (all battery earth leads) 2 33 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 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 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 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 the battery earth lead (all battery earth leads) 2 33 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 the battery earth lead (all battery earth leads) 2 33 61 20 900 Disconnecting and connecting battery earth lead (Plug-in Hybrid Electric Vehicle) 2 33 61 20 900 Disconnecting and connecting battery earth lead 2 33

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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
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