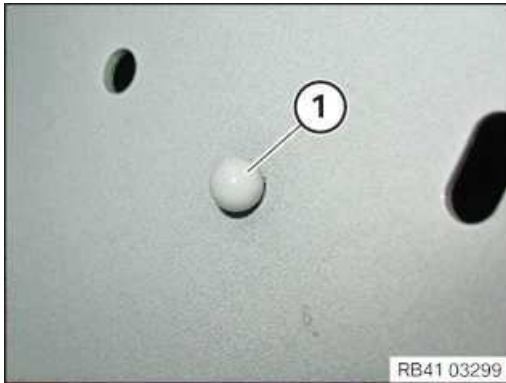


72 11 ... Checklist for front seat

Event		Check	Action
Has at least one belt tensioner and/or one side airbag been activated?	Yes	Check 1 (when installed): Check all seat adjustment options of both front seats. There must be no stiff movement, sticking or other functional problems or noises across the entire adjustment range of all the seat adjustment options. Check head restraints for damage. Check crash-active headrest for activation. Only 2-door model: Check backrest lock. Backrest must unlock and lock easily without any great physical effort. Check 2 (when dismantled): Check for deformation/damage on the following components: 1. All seat cross members on the body 2. Threaded support sleeves in the seat cross members 3. End fittings on the seat mechanism. Check for visible damage or deformation.	If components are OK with regard to checks 1 and 2, only replace activated belt tensioner or side airbag. Otherwise, replace faulty parts on the seat/body. Replace belt tensioner, seat belt and, if necessary, side airbag.
	No	Check all adjustment options of the head restraints. Check crash-active headrest for activation.	Replace faulty parts.
Only seat with integrated seat belt:			
Does the backrest indicator light turn on when the backrest is locked and also when the backrest is shaken?	Yes	Check microswitch of backrest lock and renew if necessary. Check electrical lines and repair if necessary.	If there is still a fault, replace the entire seat
	No	No further action necessary.	

41 00 513 Fix bolts on the new part

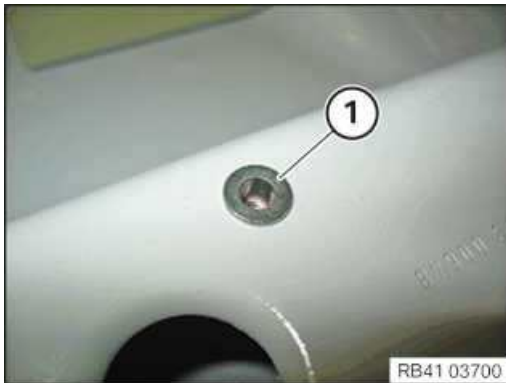
Note: On BMW and MINI bodies, various welded and pushed in bolts are being used.



Single ball/double ball (version 1):

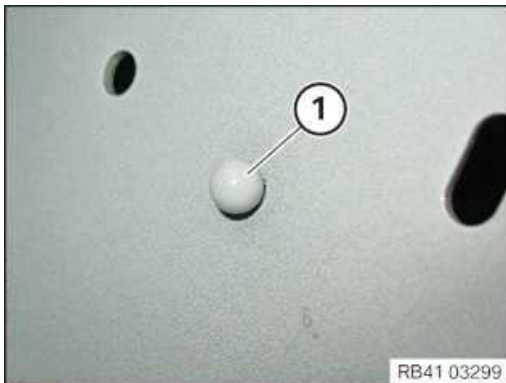
Grind off any residues of the single ball (1), if applicable.

Drill hole with diameter 7 mm.



Set blind rivet nut (1).

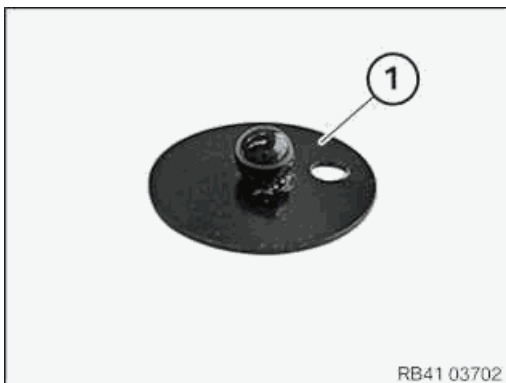
Screw in single ball with thread until a height of 5 mm (double ball 10 mm) is reached.



Single ball/double ball (version 2):

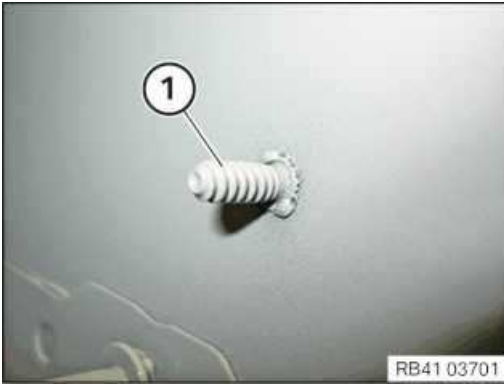
Grind off any residues of the single ball (1), if applicable.

Clean area with solvent cleaner R1.



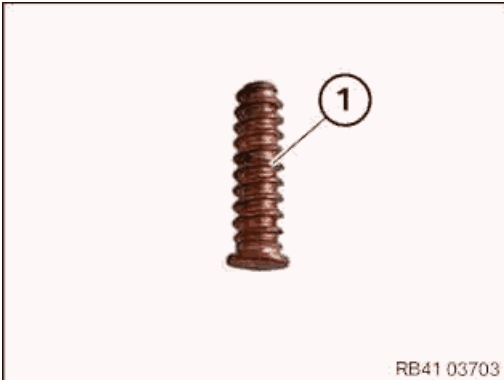
Clean bonding surface of repair element single ball (1) with solvent cleaner R1.

Bond repair element optionally with adhesive K1, K5 or window pane adhesive at the same position.

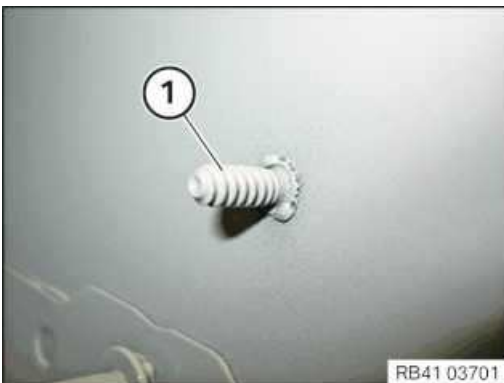


Coarse threaded bolt (version 1):

Grind off any residues of the coarse threaded bolt (1), if applicable.



Spot weld coarse threaded bolt to same position.



Coarse threaded bolt (version 2):

Grind off any residues of the coarse threaded bolt (1), if applicable.

Drill hole with diameter 7 mm.

Set blind rivet coarse threaded bolt using riveting pliers.

41 00 ... Replacing blind rivets



Special tools required:

- [2 348 128](#)
- [72 1 210](#)

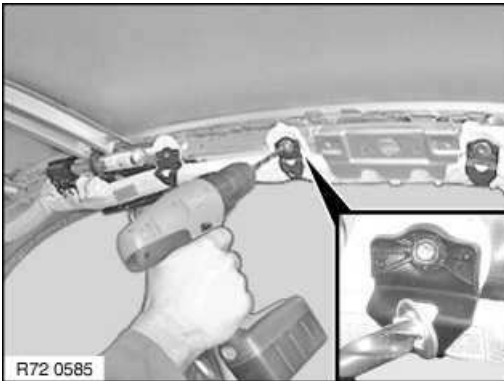


Important!

Lay out protective mats to protect the interior equipment against swarf from the drilled-out rivets and damage.

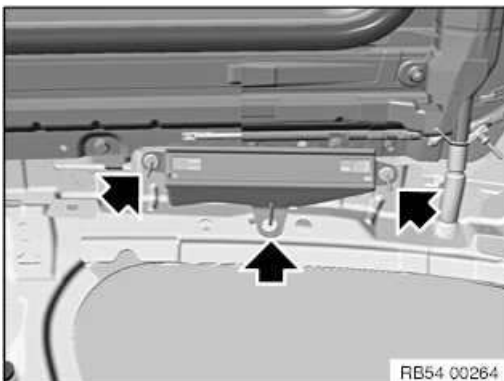
Lay out protective mats in the relevant working area:

- Instrument panel
- Entrance area
- Passenger compartment



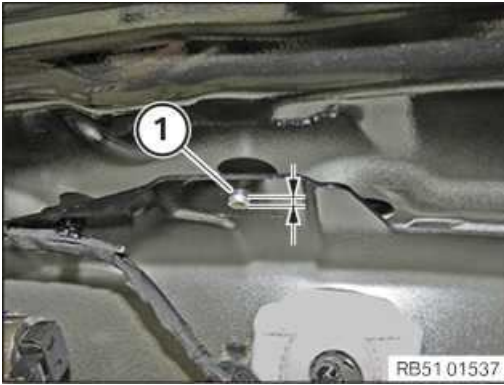
Schematic diagram of folding pack holder for head airbag:

Drill off rivet plate down to rivet shank with a 10 mm twist drill bit.

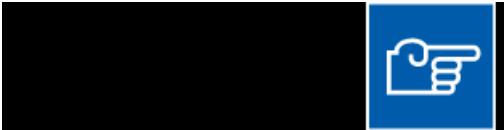


Described for grab handle holder:

Drill off rivet plate down to rivet shank with a 10 mm twist drill bit.



Drill out all blind rivet protrusions (1) up to the body.



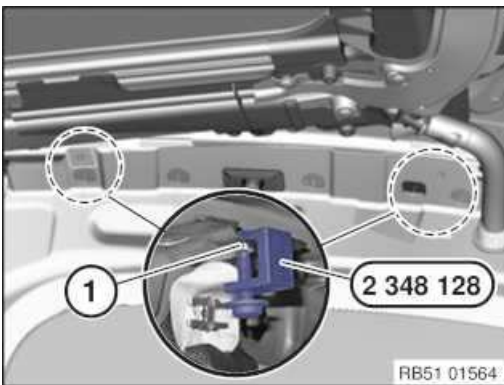
Installation note:

Apply primer to paintwork damages on side frame.

Note:

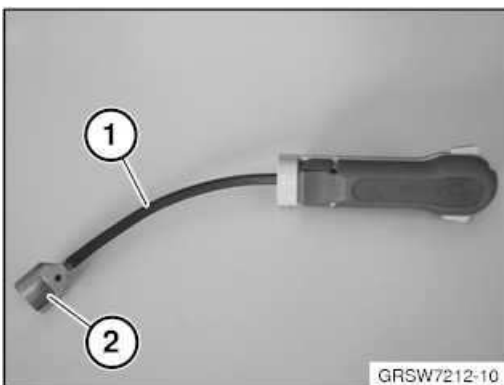
Depending on accessibility, the rivet heads will have to be removed using special tool [2 348 128](#) or [72 1 210](#).

In areas that cannot be reached using special tools, [cavity foam HS3](#) must first be applied around the rivet head before the rivet head is then punched out immediately..



Removal of rivet head with special tool 2 348 128:

Press off rivet heads (1) using special tool [2 348 128](#) and remove.



Removal of rivet head with special tool 72 1 210:

Shank (1) of special tool [72 1 210](#) is flexible and can be adapted to the relevant body contours.

Note:

Insert butyl in the collecting tray (2) to secure rivet heads and prevent them from falling out.



Insert special tool [72 1 210](#) through bore hole in body next to attachment points.

Position special tool from rear on rivet head in cavity.

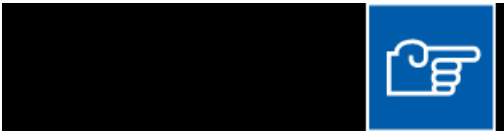
Note:

A second person will be needed to help hold the special tool on the rivet head during the driving-out operation.

Make sure collecting tray is correctly fitted on rivet head.

Drive out stem with hammer and 6 mm punch.

Carefully feed special tool out of body so that rivet head does not fall out of collecting tray.



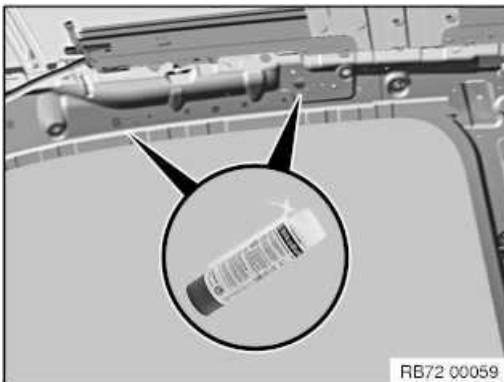
Note:

If the rivet falls out of the collecting tray into the side frame when the special tool is fed out, this area must be generously filled with foam.

For details of procedure for filling cavities with foam, see further operations.

Use cavity preservation (refer to BMW Group Parts) for foam filling.

Cavity foam (refer to BMW Group Parts) may also be used if required.



Fit tube to foam can.

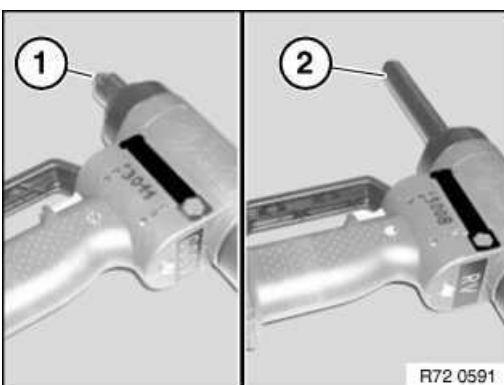
Push the hose in through the pillar holes.

Fill cavity with a filling material.

Warning!

Empty foam can completely onto cardboard and after hardening dispose of foam and can in residual waste.

Can may burst if not completely emptied.



Overview of rivet gun:

Riveting of gas generator housing and holders for folding pack with rivet gun (refer to BMW Workshop Catalogue).

The interchangeable head is changed for the different work operations.

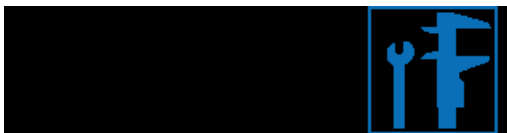
Riveting of gas generator housing with:

- 1.) 17/36 nosepiece and short shank

Riveting of holders for folding pack:

- 2.) 17/40 nosepiece and long shank

72 00 ... Replacing the seat belt clip



Special tools required:

- [00 5 040](#)



Note:

If the position of the seat belt clip (1) cannot be identified, the position of the seat belt clip on the opposite side of the vehicle is used.

Insert the seat belt clip (1) in the previous position on the seat belt (2).



Mount the counterpiece (1).

Press the seat belt clip with special tool [00 5 040](#).

Check that the seat belt clip and counterpiece (1) are firmly seated.

Note:

If the seat belt clip is pressed too firmly, the counterpiece may loosen (1).

72 Safety information and general information

Notes on safety

- > [Safety regulations](#) for handling airbag modules and pyrotechnic belt tensioners
- > [Notes on scrapping](#) vehicles with gas generators

Handling electrical system and electronics

- > [Unlocking/locking airbag plug connections](#)
- > [Repairing airbag lines](#)
- > [Handling optical fibres](#)

Check

- > [Check seat belt](#)
- > [Checklist for seat belt](#)

Airbag system

- > See diagnosis system for FUB and check
- > [Deactivating airbags](#)
- > [Procedure after airbag deployment](#) .

Active pedestrian protection

- > [Procedure after actuator triggering](#)

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

It is essential to comply with the regulations as specified in the law relating to the use of explosives when working on airbag units and seat belt tensioners.

Airbags, seat belt tensioners etc. are pyrotechnical objects. Pyrotechnical objects are assigned to different danger classes on the basis of the quantity of propellant that they contain. The assignment can be ascertained from the identification marking on the product:

Attention!

Failure to comply with the warning notices and repair instructions for gas generator components can cause accidental deployment and result in injury and vehicle damage!

This applies in particular to the following components:

- Airbag modules (driver's/front passenger airbags, side airbags)
- Seat belt tensioner
- Head airbag
- Active knee protection
- Active head restraint
- Safety battery terminal

1. Regulations

The regulations quoted in the following refer to the Federal Republic of Germany.

In all other countries, the relevant legislation and regulations must be observed in each case. Country-specific legal regulations that go beyond this information or court decisions based thereon must be followed in each case or given precedence over these regulations.

- Pyrotechnical restraint systems are subject to danger class PT1
- Gas generators are pyrotechnical objects belonging to danger class T1

Handling, transporting and storing non-fired gas generators are subject to the "Explosive Materials Act" (law relating to the use of explosives dated 13/09/1976).

The relevant trade supervisory authority must be notified at least 2 weeks before pyrotechnical objects are handled for the first time. In this process, notify the person responsible at the relevant authority (e.g. dealership owner, holder of general power of attorney, technical supervisor) in writing. A certificate of qualification, i.e. specific training, is not required for the person responsible.

2. Dismantling and installation

- Checking and installation work must be carried out by professionally trained personnel only.
- Work on airbag system components must only ever be carried out with a disconnected vehicle battery, covered negative terminal and disconnected plug connection of the cable leading to the gas generator. Observe the specified waiting period if merely the vehicle battery is disconnected:
 - 30 min. for vehicles up to 9/93
 - 1 min. for vehicles from 9/93 onward
- In the event of breaks in work, a component with a gas generator that has been removed must be secured against access by other persons.
- Individual components must never be repaired. Instead, always replace them.
- Do not treat airbag system components with cleaning agents or grease.
- Components of the airbag system must not be exposed to temperatures in excess of 75 °C.
- Airbag system components, including electronic diagnostic components, which have been dropped from heights in excess of 0.5 m must not be reinstalled in the vehicles.
- Do not remove components of the airbag system from the original packaging until immediately before they are to be installed in the vehicle.

- Before installing, subject components such as housing, connector pins ,etc. of the airbag system (including diagnosis electronics) to a visual inspection for damage and replace if necessary.
- Airbag system components may only be electrically tested while they are installed and only with the diagnosis system.
- **Danger of injury:** The airbag module may only be set down with the airbag itself facing *upwards*. Otherwise the gas generator may be propelled upwards upon potential ignition of the gas generator.
- Do not point the ignition squib of a gas generator at other persons.
- Components with gas generators must not be fired while they are removed. They must be disposed of by special disposal companies or returned in the packaging of the new parts.
- When carrying out straightening and welding work with an electric welder:
 - Disconnect the vehicle battery
 - Cover negative terminal (post)
- Avoid all contact with the skin when removing a fired airbag module - wear gloves. Wash with water after contact with the skin.

3. Transport

- Components with gas generators must be sent off in the packaging of the new components.

4. Storage

- Observe the regulations of the relevant trade supervisory authority and the applicable national regulations.

72 11 ... Check list for automatic seat belt

Was the automatic seat belt with lower strap replaced after an accident, e.g. frontal and/or oblique collision in which the impact absorbers/deformation elements were permanently deformed? (only while seat belt was fastened)	No	Replace complete automatic seat belt The following must also be checked and replaced, if necessary: seatbelt mounts on the vehicle body seatbelt mounts on the seat seat rails.
Yes		
Does seat belt lock when pulled out suddenly?	No	Replace automatic seat belt (upper seat belt).
Does the automatic reel eliminate the belt slack?	No	Replace automatic seat belt (upper seat belt).
Yes		
Yes		
Can the seat belt strap be pulled out without jamming?	No	Automatic reel is loose - tighten reel. If fault persists: Return spring broken - replace automatic seat belt (upper seat belt).
Yes		
Does the strap on the front seat belts retract automatically? Does the strap on the rear seat belts retract automatically, a small remaining loop is acceptable if this remaining loop is fully retracted when the seat belt strap is readjusted.	No	Automatic reel is loose - tighten reel. Excessive friction in belt guides - replace automatic seat belt (upper strap). Return spring broken - replace automatic seat belt (upper seat belt).
Yes		
Does automatic reel make a squeaking noise when belt is fastened or unfastened?	Yes	Excessive friction in belt guides - replace automatic seat belt (upper strap). Automatic reel is loose - tighten reel. Return spring broken - replace automatic seat belt (upper seat belt).
No		

Is the plastic casing on the belt tongue free from damage in the area of the belt opening?	No	Replace complete automatic seat belt
Yes		

Is the fully extended seat belt strap free from pinches, burn marks, tears and cuts, creasing and unravelling?	No	Replace complete automatic seat belt
Yes		
When the seat belt is fastened, is the belt tongue ejected by spring pressure from the buckle when the "red button" is pressed?	No	Replace complete automatic seat belt
Yes		
Does fastened seat belt lock during emergency braking on a dry roadway at double walking speed?	No	Replace complete automatic seat belt
Yes		
Is fully pulled-out seat belt strap free of serious dirt and other marks?	No	If dirt and marks cannot be removed with commercially available mild detergent, the automatic seat belt (upper seat belt) must be replaced.
Yes		
In the case of seat-integrated seat belts, is front tongue of reclining mechanism or seat rail free of deformation?	No	Replace both damaged parts and complete automatic-reel seat belt. The following must also be checked and replaced, if necessary: seatbelt mounts on the vehicle body seatbelt mounts on the seat seat rails.
Yes		
The automatic seat belt is OK!		

72 11 ... Check the 3-point automatic-reel belt

General considerations when checking seat belts:

1. After replacing the EMA/REMA* automatic reel

* EMA = electromotive automatic (seat belt) reel

*REMA = reversible electromotive reel

Check the additional functions for function when replacing the EMA/REMA automatic reel after programming / encoding the vehicle.

For the EMA/REMA automatic reel functional check, it is sufficient to check that the belt slack* has been eliminated.

* Belt slack is seat belt play when the seat belt is fastened. When the seat belt is fastened, it does not immediately lie taut against the body.

Check if belt slack was eliminated for **EMA to 07/12:**

- Get in, close the doors and latch the left seat belt buckle contact
- EMA eliminates belt slack

If belt slack was not eliminated, the procedure described below must be followed:

- Allow vehicle to assume complete sleep mode and repeat the functional check.
- All doors must be closed!
- EMA, left, must be installed and connected correctly.
- Work through all fault code entries before the repeating the functional check

Check if belt slack was eliminated for **REMA from 07/12 onwards:**

- Lock left seat belt buckle contact and perform function check with diagnosis system.
- Alternatively, take a test drive at a speed of > 10 km/h

The automatic reel is completely maintenance-free and must not be opened.

2. After an accident

The seat belts must be checked after an accident.

At the beginning of the check, attempt to obtain information about the occupation of the seats in the vehicle that was involved in an accident. If this is not possible, check all of the seat belts in the vehicle and replace them if necessary.

In the event of deformations on the vehicle, you must subject the components of the restraint system affected in this area such as e.g.

- Seat belt
- Anchor fitting tensioner
- Seat belt height adjustment
- Seat belt tensioner
- Impact sensor
- etc.

to a function check and a visual inspection.

If you are in any doubt as to the unimpaired operability of restraint system components, these components must be replaced in the interests of safety!

If a seat belt has to be replaced following an accident (e.g. in the event of a frontal and/or oblique collision with permanently deformed impact absorbers/deformation elements or cross-members), the complete seat belt must be replaced! The complete seat belt comprises:

- Upper seat belt
- Lower strap
- Anchor fitting tensioner

- Seat belt buckle (belt tensioner)
- Seat belt height adjustment
- Mounting bolts of all components

The following must also be checked and replaced, if applicable:

- Belt coding on the body
- Belt coding on the seat
- seat rails.
- Seat structure (frame, etc.)

Alignment tests on the seat and the seat rails are not permitted!

The following explanations and the [check list](#) for the 3-point automatic-reel seat belt may be helpful.

An unusable seat belt or a seat belt worn in a serious accident should be destroyed immediately after removal to guarantee that it can not be used again.

Check the automatic reel and seat belt strap:

The automatic reel has two independent activation systems for seat-belt locking.

The first activation system locks the automatic reel when driving quickly around curves, driving in tight curves, on extreme inclinations (vehicle rolls over) and during sharp braking or crash.

To check, the backrest must be placed in the upright position and both hands held in a supporting position close to the steering wheel. The brakes are then operated with full intensity while driving on a dry roadway and at double walking speed.

The seat belt must lock.

The second activation system provides additional safety and is controlled by inertia mass.

If the reel locks when the seat belt strap is pulled out suddenly, this system is also OK.

In addition, the automatic reel (EMA/REMA) must eliminate belt slack.

Check whether an attempt was made to eliminate belt slack:

- Get in, close the doors and latch the left seat belt buckle contact
- EMA/REMA eliminates belt slack

If belt slack was not eliminated, the procedure described below must be followed:

- Allow vehicle to assume complete sleep mode and repeat the functional check.
- All doors must be closed!
- EM/REMA must be installed and connected correctly
- Work through all fault entries before the functional check is carried out again.

Replace the faulty or activated automatic reel.

The automatic reel is completely maintenance-free and must not be opened.

Precondition for complete, problem-free retraction of seat belt straps:

- The seat belt straps must not be twisted!
- The seat belt straps must not be damaged!

When placed to one side, the seat belt straps of the front seats must retract fully.

With the seat belt straps in the seat bench, a small remaining loop in the seat belt strap is acceptable due to increased friction between the seat belt strap and the seat bench cover if:

- this remaining loop is fully retracted when the seat belt strap is re-guided.

The seat belt strap should only be cleaned with a lukewarm soap solution or a commercial mild detergent.

Seat belt strap must never be cleaned chemically or dyed.

The automatic reel and seat belt strap must be replaced in the event of:

1. creasing
2. unravelling
3. pinches
4. cracks and tears
5. traces of melting
6. Traces of wear on the coating of the buckle tongue or on the seat belt guide loop.

Check the lower strap (belt tensioner):

To fasten a seat belt, the buckle tongue should insert easily and engage in the seat belt buckle with an audible click.

When the "Red button" is pressed, the buckle tongue must be ejected from the seat belt buckle under spring pressure.

If the seat belt buckle cover is missing or damaged, the lower strap must be replaced.

Replace the activated belt tensioner including the complete seat belt with seat belt height adjustment and mounting bolts and check the

- Belt coding on the body
- Belt coding on the seat
- seat rails.
- Seat structure

Criteria for an activated mechanical belt tensioner:

- very low position of seat belt buckle (comparisons with new part).

Criteria for an activated pyrotechnic belt tensioner:

- very low position of seat belt buckle (comparisons with new part).
- Airbag indicator light permanently lit: read out airbag system fault memory.

The belt tensioners can be activated under certain circumstances even when the seat is not occupied. If it is definite that the seat belt system was not used (seat was not occupied), there is no need to replace the following components after a check.

- Upper seat belt
- Add-on parts (seat belt height adjustment, screws)
- Belt coding on the body
- Belt coding on the seat
- seat rails.

Checking end fitting pretensioner:

Replace the triggered end fitting pretensioner including the complete seat belt with seat belt height adjustment, lower strap and mounting bolts and check the

- Belt coding on the body
- Belt coding on the seat
- seat rails.
- Seat structure

Criteria for a triggered end fitting pretensioner:

- A triggered end fitting pretensioner can be recognised from the wrapped seat belt strap around the shaft.
- Airbag indicator light permanently lit: read out airbag system fault memory.

72 11 ... Checking automatic seat belt

General considerations when checking seat belts:

The seat belts must be checked after an accident.

For the check, you should start by trying to get information on which seats in the vehicle involved in the accident were occupied. If this is not possible, check *all* the seat belts in the vehicle and replace them if necessary.

In the event of deformations on the vehicle, you must subject the components of the restraint system affected in this area such as e.g.

- Seat belt
- Anchor fitting tensioner
- Seat belt height adjustment
- Belt buckle tensioner
- Triggering sensors
- etc.

to a function check and a visual inspection.

If you are in any doubt as to the unimpaired operability of restraint system components, these components must be replaced in the interests of safety!

If a seat belt has to be replaced following an accident (e.g. in the event of a frontal and/or oblique collision with permanently deformed impact absorbers/deformation elements or cross-members), the complete seat belt must be replaced! The complete seat belt comprises:

- Upper seat belt
- Lower strap
- Anchor fitting tensioner
- Seat belt buckle (buckle tensioner)
- Seat belt height adjustment
- Mounting bolts of all components

The following must also be checked and if necessary replaced:

- seatbelt mounts on the vehicle body
- Seatbelt mounts on the seat
- seat rails.
- Seat structure (frame, etc.)

Alignment tests on the seat and the seat rails are not permitted!

The following explanations and the [checklist](#) for the automatic seat belt can provide help.

An unusable seat belt or a seat belt worn in a serious accident should be destroyed immediately after removal to guarantee that it can not be used again.

Checking automatic reel and seat belt strap:

The automatic reel has two independent activation systems for seat-belt locking.

The first activation system locks the automatic reel when driving quickly around curves, driving in tight curves, on extreme inclinations (vehicle rolls over) and during sharp braking or crash.

To check, the seat backrest must be placed in the upright position and both hands held in a supporting position close to the steering wheel. The brakes are then operated with full intensity while driving on a dry roadway and at double walking speed.

The seat belt must lock.

The second activation system provides additional safety and is controlled by inertia mass.

If the reel locks when the seat belt strap is pulled out suddenly, this system is also OK.

In addition, the automatic electric reel (EMA) must eliminate belt slack.

Check whether an attempt was made to eliminate belt slack:

- Enter, close doors and latch seat belt buckle contact, left
- EMA eliminates belt slack

If belt slack was not eliminated, the procedure described below must be followed:

- Allow vehicle to assume complete sleep mode and repeat the functional check.
- All doors must be closed!
- EMA, left, must be installed and connected correctly.
- Work through all fault entries before the functional check is carried out again.

Replace defective or actuated automatic electric reels.

Automatic reel does not require servicing and must not be opened.

Precondition for complete, problem-free retraction of seat belt straps:

- The seat belt straps must not be twisted!
- The seat belt straps must not be damaged!

When placed to one side, the seat belt straps of the front seats must retract fully.

With the seat belt straps in the rear seat bench, a small remaining loop is acceptable due to increased friction between the strap and the rear seat bench cover if:

- this remaining loop is fully retracted when the seat belt strap is reguided.

Seat belt strap should only be cleaned with a lukewarm soap solution or a commercial mild detergent.

Seat belt strap must never be cleaned chemically or dyed.

The automatic reel and seat belt strap must be replaced in the event of:

1. creasing
2. unravelling
3. pinches
4. cracks and tears
5. traces of melting
6. traces of wear on coating of buckle tongue or on seat belt guide loop.

Checking lower strap (belt buckle tensioner):

To fasten a seat belt, the buckle tongue should insert easily and with a loud click in the lock.

When the "Red button" is pressed, the buckle tongue must be ejected from the lock under spring pressure.

If the seat belt buckle cover is missing or damaged, the lower strap must be replaced.

Replace the triggered belt buckle tensioner including the complete seat belt with seat belt height adjustment and mounting bolts and check the

- seatbelt mounts on the vehicle body
- Seatbelt mounts on the seat
- seat rails.
- Seat structure

Criteria for a triggered mechanical belt buckle tensioner:

- very low position of seat belt buckle (comparisons with new part).

Criteria for a triggered pyrotechnical belt buckle tensioner:

- very low position of seat belt buckle (comparisons with new part).
- Airbag indicator light permanently lit: read out airbag system fault memory.

The belt buckle tensioners can be triggered under certain circumstances even when the seat is not occupied.

If it is definite that the seat belt system was not used (seat was not occupied), there is no need to replace the

- Upper seat belt
- Add-on parts (seat belt height adjustment, screws)
- seatbelt mounts on the vehicle body
- Seatbelt mounts on the seat
- seat rails.

after a check.

Checking end fitting pretensioner:

Replace the triggered end fitting pretensioner including the complete seat belt with seat belt height adjustment, lower strap and mounting bolts and check the

- seatbelt mounts on the vehicle body
- Seatbelt mounts on the seat
- seat rails.
- Seat structure

Criteria for a triggered end fitting pretensioner:

- A triggered end fitting pretensioner can be recognised from the wrapped seat belt strap around the shaft.
- Airbag indicator light permanently lit: read out airbag system fault memory.

72 11 ... Checklist for front seat

Event		Check	Action
Has at least one belt tensioner and/or one side airbag been activated?	Yes	Check 1 (when installed): Check all seat adjustment options of both front seats. There must be no stiff movement, sticking or other functional problems or noises across the entire adjustment range of all the seat adjustment options. Check head restraints for damage. Check crash-active headrest for activation. Only 2-door model: Check backrest lock. Backrest must unlock and lock easily without any great physical effort. Check 2 (when dismantled): Check for deformation/damage on the following components: 1. All seat cross members on the body 2. Threaded support sleeves in the seat cross members 3. End fittings on the seat mechanism. Check for visible damage or deformation.	If components are OK with regard to checks 1 and 2, only replace activated belt tensioner or side airbag. Otherwise, replace faulty parts on the seat/body. Replace belt tensioner, seat belt and, if necessary, side airbag.
	No	Check all adjustment options of the head restraints. Check crash-active headrest for activation.	Replace faulty parts.
Only seat with integrated seat belt:			
Does the backrest indicator light turn on when the backrest is locked and also when the backrest is shaken?	Yes	Check microswitch of backrest lock and renew if necessary. Check electrical lines and repair if necessary.	If there is still a fault, replace the entire seat
	No	No further action necessary.	

72 11 030 Removing and installing/replacing front left or right seat belt (complete)



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.



NOTICE

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

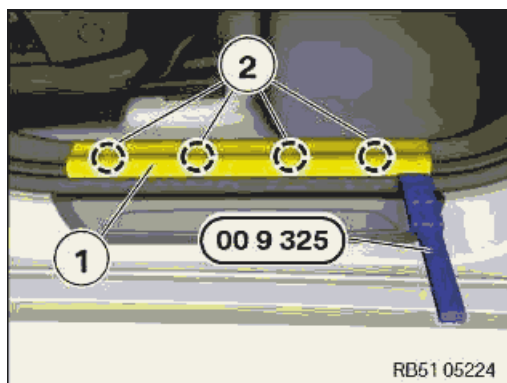
PRELIMINARY WORK

1 – Disconnecting all battery earth leads

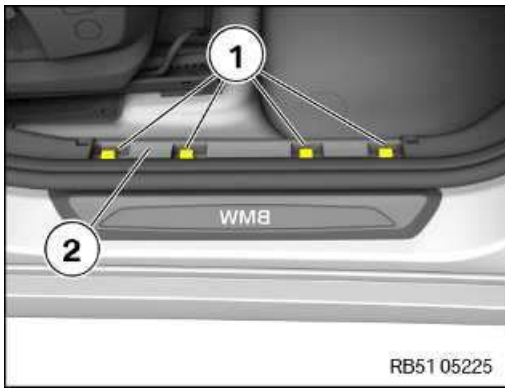


- See additional information.

2 – Remove front entrance cover strip

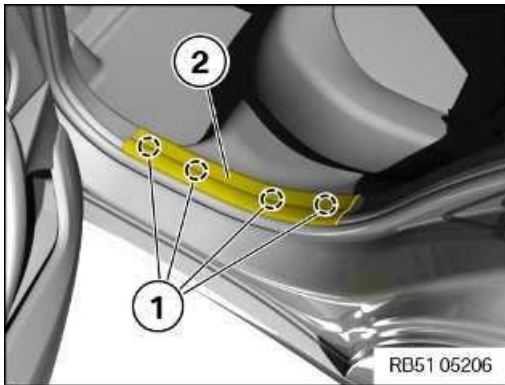


- Unclip the door sill cover strip (1) at the clips **0 496 569 (00 9 325)** using special tool (2) starting from the rear.



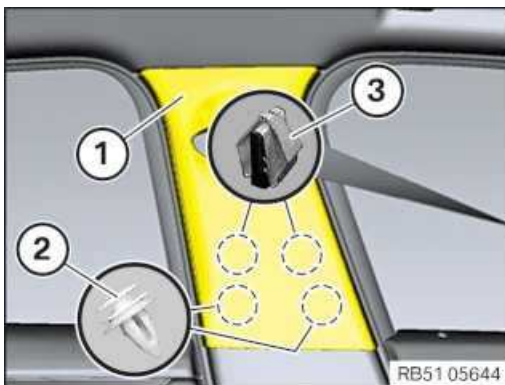
- If applicable, loosen clips (1) from floor panel (2) and mount on the door sill cover strip.

3 – Remove rear entrance cover strip



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

4 – Partially removing upper B-pillar trim panel



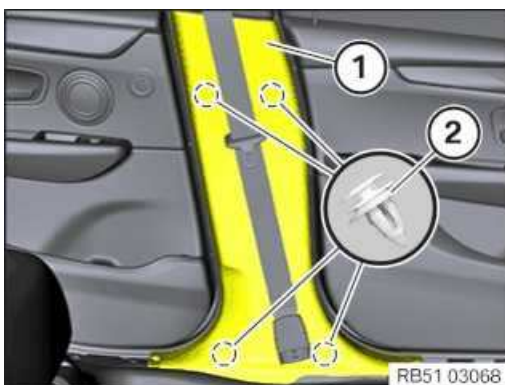
- Carefully release the B-pillar trim panel (1) from the clips (2) and the clamps (3) with the special tool **0 496 569 (00 9 325)** and guide it out of the headlining in a downwards direction.

5 – Remove the lower B-pillar trim panel



NOTICE

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



- Release the B-pillar trim panel (1) at bottom starting from the clips (2).
- Feed out and remove the B-pillar trim panel (1) inwards.

MAIN WORK

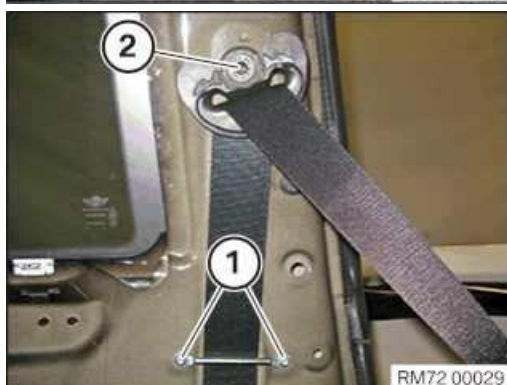
6 – Remove front seat belt



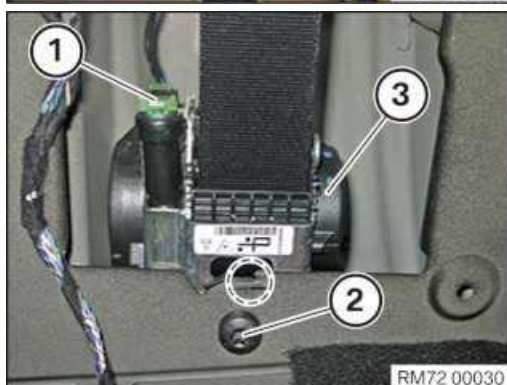
- Slide the cover (1) on the seat belt (2) in an upward direction.



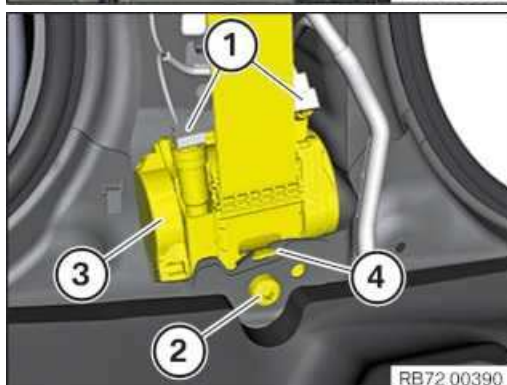
- Turn the end fitting (2) to the rear.
- Carefully pull the lock plate (1) outward.
- At the same time, feed out the end fitting (2) towards front.
- Remove the end fitting (2) outward.



- Release the screws (1) and remove the slide bar.
- Loosen screw (2).
- Put the seat belt guide loop including the seat belt strap to one side.

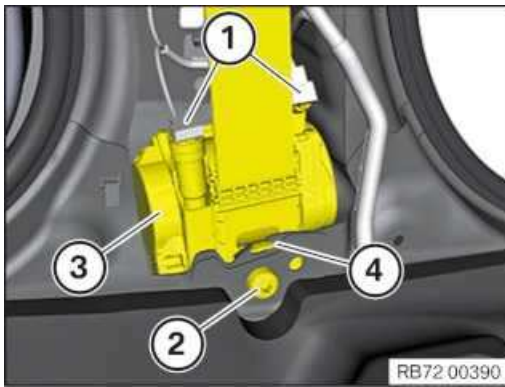


- Unlock and disconnect connector (1).
- Loosen screw (2).
- Feed out the inertia reel (3) from the guide.
- Remove seat belt.



- **US version only:**
Unlock and disconnect connector (1).
Loosen screw (2).
Feed out the inertia reel (3) from the guide (4).
Remove seat belt.

7 – Install the front seat belt



• US version only:

Mount the inertia reel (3).

Make sure the guide (4) is positioned correctly.

Tighten down screw (2).

Front inertia reel to body

M8	Renew screw	19 Nm
M10	Renew screw	42 Nm

• Connect connector (1).

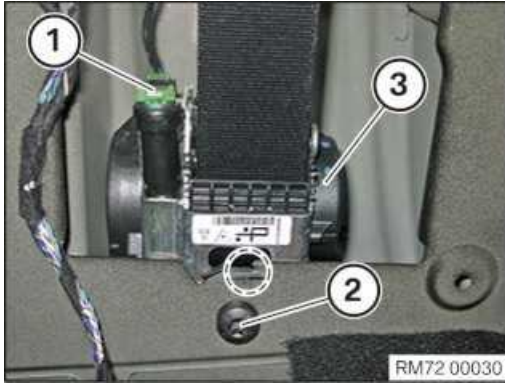
• Mount the inertia reel (3).

• Tighten down screw (2).

Front inertia reel to body

M8	Renew screw	19 Nm
M10	Renew screw	42 Nm

• Connect connector (1).



• Install the seat belt guide loop including the seat belt strap.

• Renew the screw (2).

Parts: Screw

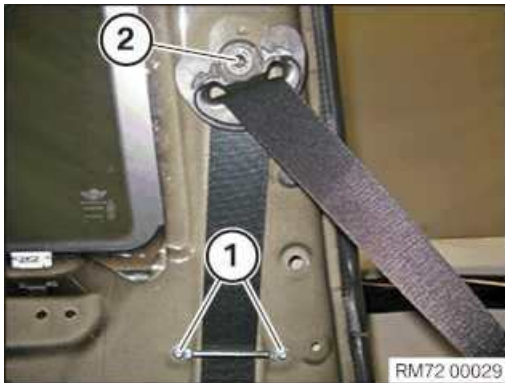
• Tighten down screw (2).

Seat belt guide loop to B-pillar

	Renew screw	42 Nm
--	-------------	-------

• Install the slide bar.

• Tighten the screws (1).

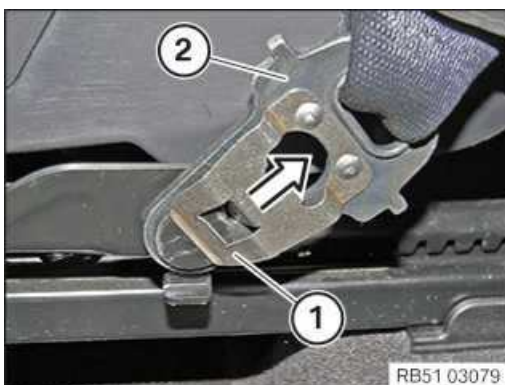


► Install front end fitting

• Feed in end fitting (2) and engage.

• Pull the end fitting (2) in direction of arrow until the lock plate (1) engages audibly.

The end fitting can be turned on the bolt if the lock plate is engaged correctly.



Check

• Check if the end fitting can be turned on the bolt.

Result

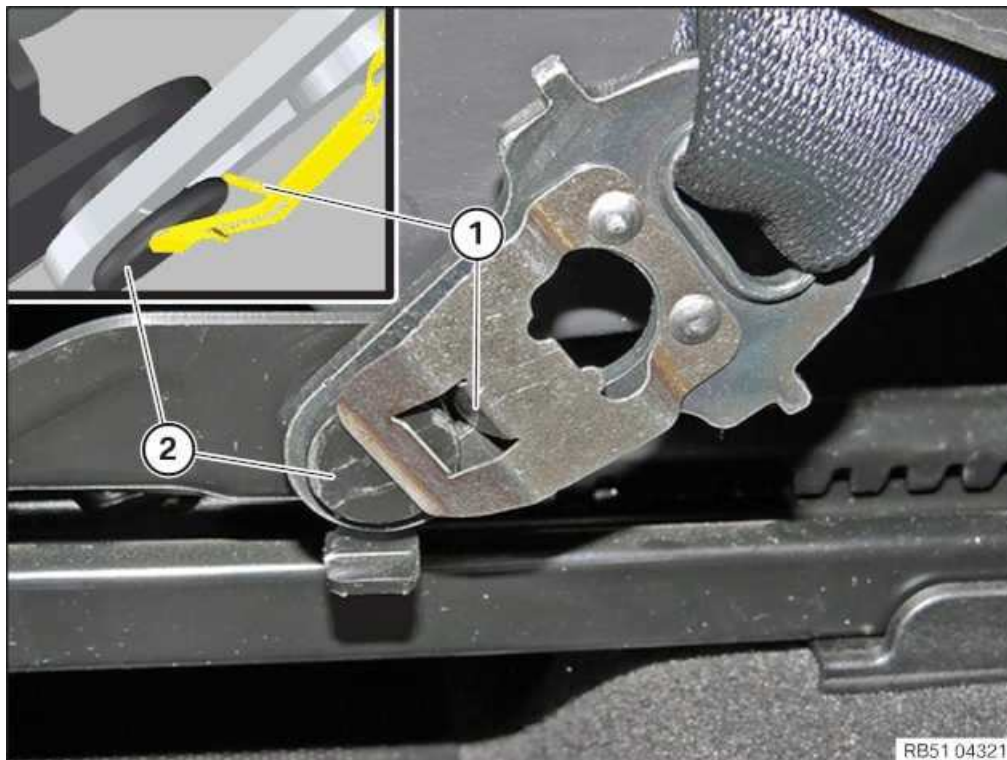
» The end fitting cannot be turned.

Measure

• Engage lock plate into place again.

► Correctly mount the front end fitting

End fitting



- Make sure that the retaining tab (1) correctly engages behind the bolt (2).



WARNING

Malfunction with incorrectly secured components.

Danger of injury!

- Ask a second person to check the torque or latch mechanism (four-eyes principle).
- Both persons must document that the work has been carried out correctly in the vehicle records.

- Observe the following animation:

Your browser doesn't support HTML5 video.

◀



- Slide the cover (1) on the seat belt (2) in a downward direction.
- Perform the concluding check: Pull end fitting forward, upward and backward.

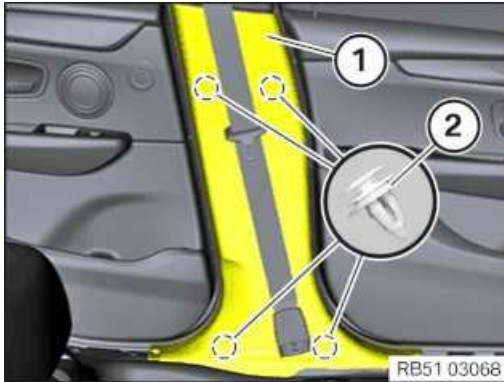
POSTPROCESSES

8 – Install the lower B-pillar trim panel



NOTICE

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



- Renew damaged clips (2).

Parts: Clips

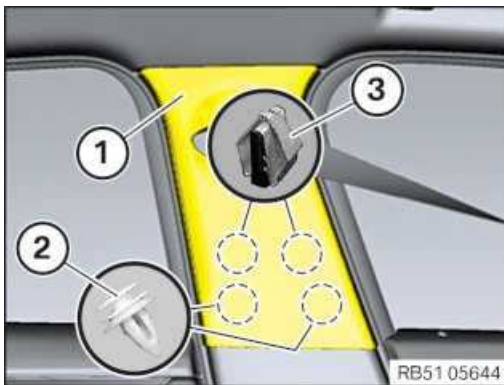
- Feed in the B-pillar trim panel (1) at the top and position correctly.
- Clip in the B-pillar trim panel (1) at the clips (2).
- Make sure the B-pillar trim panel (1) is correctly positioned on the edge protection.

9 – Partially installing upper B-pillar trim panel



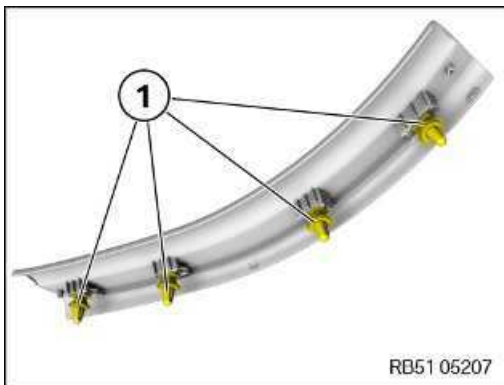
TECHNICAL INFORMATION

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

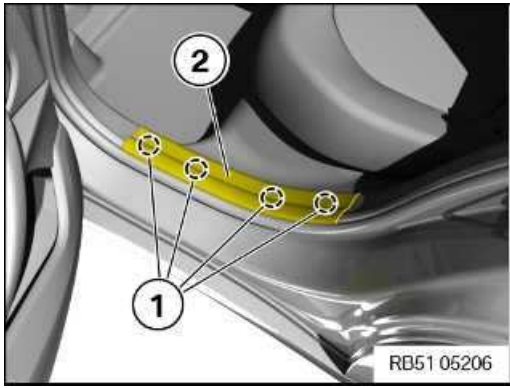


- Insert the B-pillar trim panel (1) into the headlining and lock it at the clips (2) and the clamps (3).
- Make sure that the B-pillar trim panel (1) is correctly positioned at the respective edge protection.

10 – Installing the rear door sill cover strip

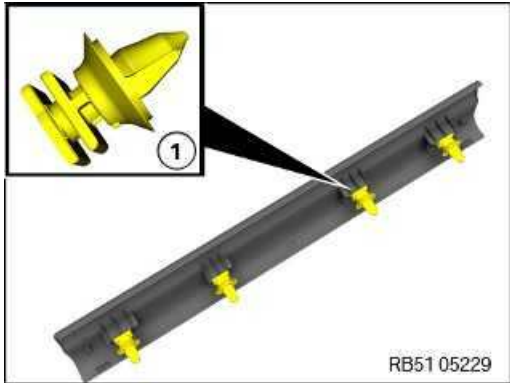


- Check the clips (1) for damage and renew where required.

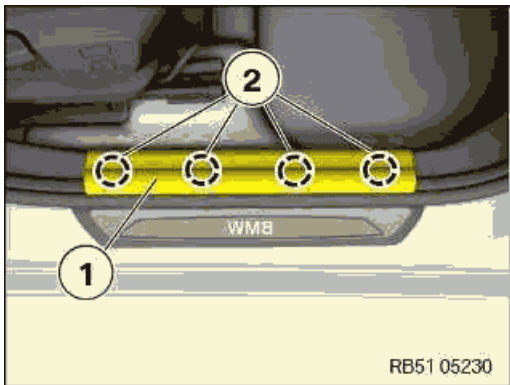


- Clip in the door sill cover strip (2) with the clips (1).

11 – Install the front door sill cover strip



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



- Clip the door sill cover strip (1) into the floor panel with the clips (2).

12 – Disconnecting all battery earth leads



- See additional information.

Additional Information

Overview of Tightening Torques

Front inertia reel to body

Used in step [7](#)

M8	Renew screw	19 Nm
M10	Renew screw	42 Nm

Renew screw

42 Nm

Overview of Special Tools

0 496 569 (00 9 325) Wedge



Common

Used in step 2 4

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

[72 Safety information and general information](#)

Repair instructions

Used in step

61 20 900 Disconnecting and connecting battery earth lead	1 12
61 20 900 Disconnecting and connecting battery earth lead	1 12
61 20 900 Disconnecting and connecting battery earth lead	1 12
61 20 900 Disconnecting and connecting battery earth lead	1 12
61 20 900 Disconnecting and connecting battery earth lead	1 12
61 20 900 Disconnecting and connecting battery earth lead	1 12
61 20 900 Disconnecting and connecting the battery earth lead (all battery earth leads)	1 12
61 20 900 Disconnecting and connecting the battery earth lead (all battery earth leads)	1 12
61 20 900 Disconnecting and connecting battery earth lead	1 12
61 20 900 Disconnecting and connecting the battery earth lead (all battery earth leads)	1 12
61 20 900 Disconnect and connect battery earth lead (Plug-in Hybrid Electric Vehicle)	1 12
61 20 900 Disconnecting and connecting battery earth lead	1 12
61 20 900 Disconnecting and connecting battery earth lead	1 12
61 20 900 Disconnecting and connecting battery earth lead	1 12
61 20 900 Disconnecting and connecting battery earth lead	1 12
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61 20 900 Disconnecting and connecting battery earth lead	1 12
61 20 900 Disconnecting and connecting battery earth lead	1 12
61 20 900 Disconnecting and connecting battery earth lead	1 12
61 20 900 Disconnecting and connecting the battery earth lead (all battery earth leads)	1 12
61 20 900 Disconnecting and connecting battery earth lead	1 12
61 20 900 Disconnecting and connecting battery earth lead	1 12

61 20 900 Disconnecting and connecting battery earth lead	1 12
61 20 900 Disconnecting and connecting battery earth lead	1 12
61 20 900 Disconnecting and connecting battery earth lead	1 12
61 20 900 Disconnecting and connecting battery earth lead	1 12
61 20 900 Disconnecting and connecting battery earth lead	1 12

72 11 071 Removing and installing/replacing front lower strap fitting for front passenger seat



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.



NOTICE

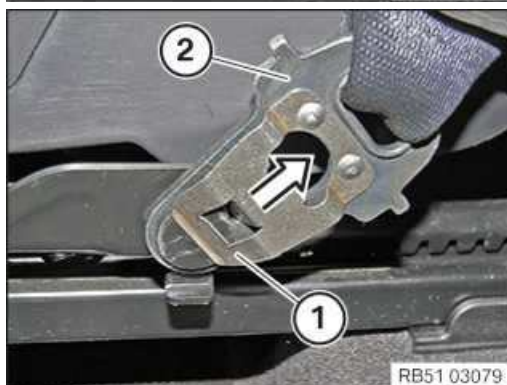
Description is for left component only. Procedure on the right side is identical.

PRELIMINARY WORK

1 – Remove the front end fitting



- Slide the cover (1) on the seat belt (2) in an upward direction.



- Turn the end fitting (2) to the rear.
- Carefully pull the lock plate (1) outward and simultaneously feed out the end fitting (2) to the front.
- Remove the end fitting (2) outward.

2 – Remove front seat



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.

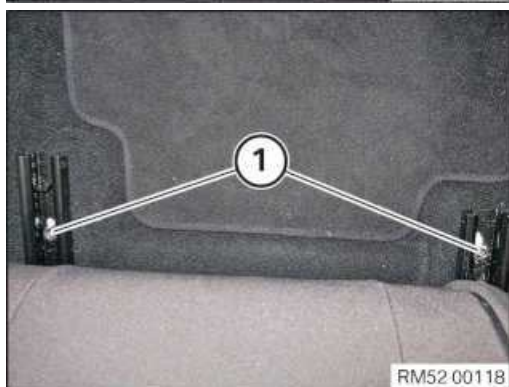


TECHNICAL INFORMATION

Different variants may be installed depending on the vehicle equipment.



- Adjust front seat completely to the rear.
- Loosen screws (1).

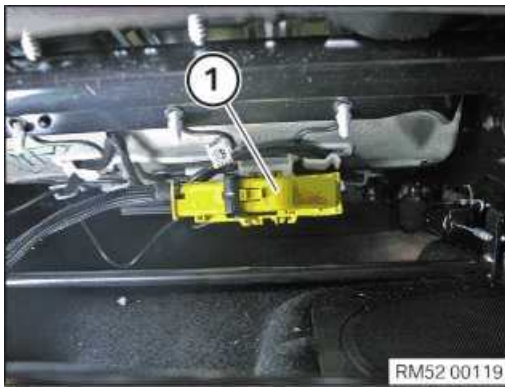


- Adjust front seat completely to the front.
- Loosen screws (1).

► Disconnecting all battery earth leads

- See additional information.





RISK OF DAMAGE

Scratches.

Tools and sharp-edged components can cause scratches.

- Protect working area.
- Handle tools and components carefully.
- Cover the door sill using protective covers.
- Fold the front seat back and disconnect the plug connection (1).



RISK OF DAMAGE

Heavy component.

Heavy components can lead to injury or damage.

- Remove and install heavy components with the aid of another person/other persons.
- Remove the front seat with the assistance of an auxiliary person.

► Mounting the front seat on the universal seat mount

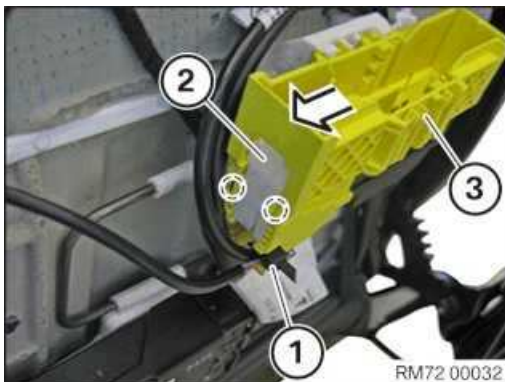
- Mounting the front seat on the special tool (universal seat mount) **2 154 711**.

To guarantee a professional repair, use of special tool (universal seat mount) **2 154 711** is recommended.



MAIN WORK

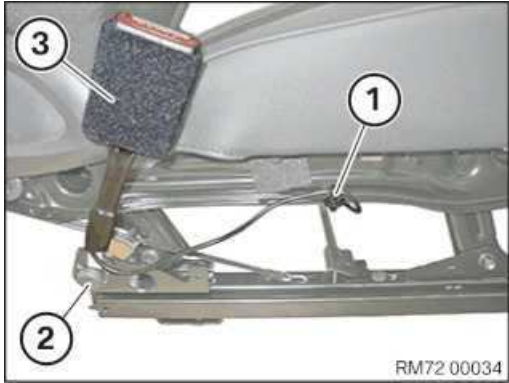
3 – Removing front lower strap



- If necessary detach the cable strap (1). Unlock the latch mechanisms and slide the connectors (2) in direction of arrow out of the connector housing (3).

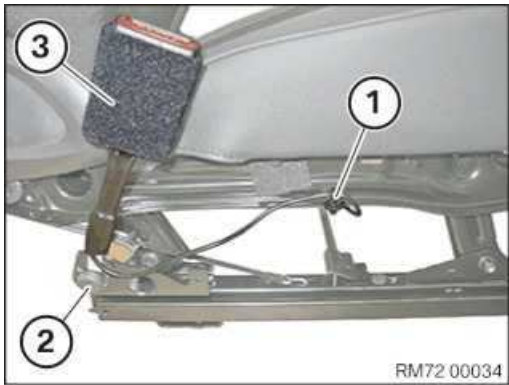


- Detach cable (1) from seat mechanism.



- Release clip (1) at seat mechanism. Loosen screw (2). Remove lower strap (3).

4 – Installing the front lower strap



i

TECHNICAL INFORMATION

Component is encoded against incorrect assembly.

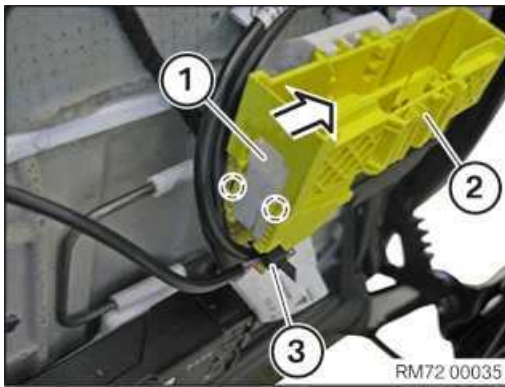
- Mount lower strap (3) to seat mechanism.
- Tighten down screw (2).

Lower strap to seat structure

Oval-head screw		M10	42 Nm
-----------------	--	-----	-------

- Mount cable with clip (1) to seat mechanism.
- Insert cable (1) of the seat mechanism.





- Insert connector (1) into the connector housing (2).
Make sure that the connector housing engages correctly.
- Fasten cable to connector housing (2) with cable strap (3).

POSTPROCESSES

5 – Install front seat



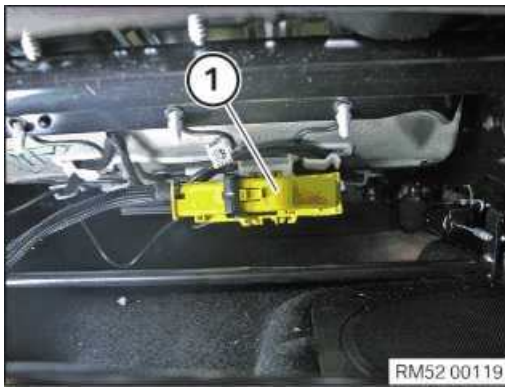
TECHNICAL INFORMATION

Different variants may be installed depending on the vehicle equipment.



► Removing the front seat from the universal seat mount .

- Removing the seat from the special tool (universal seat mount) **2 154 711**.



RISK OF DAMAGE

Scratches.

Tools and sharp-edged components can cause scratches.

- Protect working area.
- Handle tools and components carefully.
- Cover the door sill using protective covers.



RISK OF DAMAGE

Heavy component.

Heavy components can lead to injury or damage.

- Remove and install heavy components with the aid of another person/other persons.

- Lift the front seat into the vehicle with an auxiliary person and position it.
- Lay the front seat back and connect connector (1) .

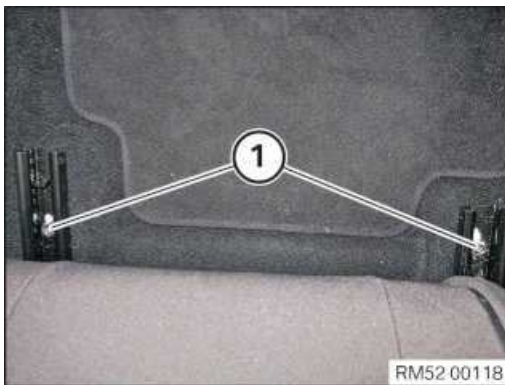
- Adjust the front seat to the rear.
- Renew screws (1).

Parts: Bolts

- Tighten the screws (1).

Seat to body

M10	Renew screw.	Tightening torque	42 Nm
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- Adjust the front seat to the front.
- Renew screws (1).

Parts: Bolts

- Tighten the screws (1).

Seat to body

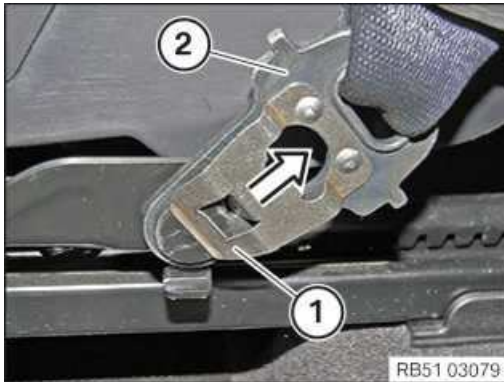
M10	Renew screw.	Tightening torque	42 Nm
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► **Disconnecting all battery earth leads**



- See additional information.

6 – Install front end fitting



- Feed in end fitting (2) and engage.
- Pull the end fitting (2) in direction of arrow until the lock plate (1) engages audibly.

The end fitting can be turned on the bolt if the lock plate is engaged correctly.

Check

- Check if the end fitting can be turned on the bolt.

Result

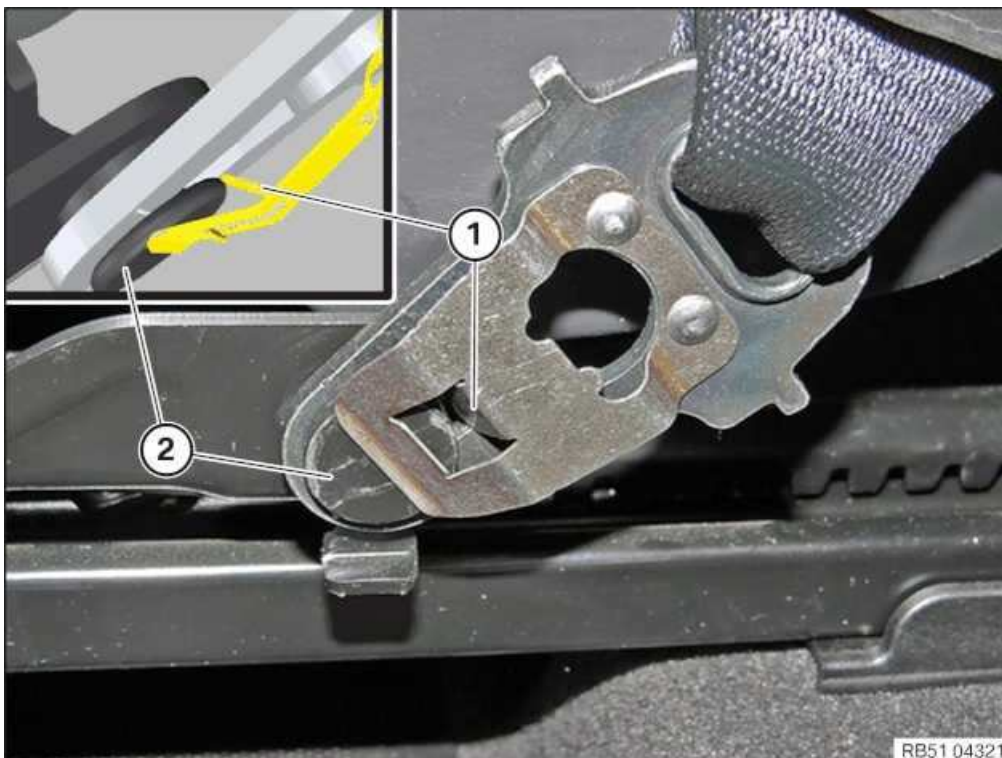
» The end fitting cannot be turned.

Measure

- Engage lock plate into place again.

► Correctly mount the front end fitting

End fitting



- Make sure that the retaining tab (1) correctly engages behind the bolt (2).



WARNING

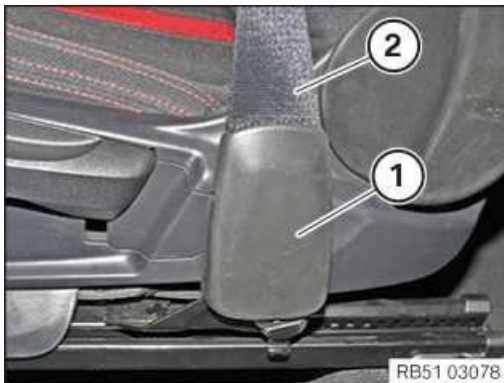
Malfunction with incorrectly secured components.

Danger of injury!

- Ask a second person to check the torque or latch mechanism (four-eyes principle).
- Both persons must document that the work has been carried out correctly in the vehicle records.

- Observe the following animation:

Your browser doesn't support HTML5 video.



- Slide the cover (1) on the seat belt (2) in a downward direction.
- Perform the concluding check: Pull end fitting forward, upward and backward.

Additional Information

Overview of Tightening Torques

Lower strap to seat structure

Used in step [4](#)

Oval-head screw	M10	42 Nm
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Seat to body

Used in step [5](#)

M10	Renew screw.	Tightening torque	42 Nm
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Overview of Special Tools

2 154 711 Fitting aid



Common

Used in step [2](#) [5](#)

Usage	This universal seat fixture is intended for professional repairs of vehicle seats. Universal seat fixture to be used only in conjunction with engine assembly stand with SWZ number 00 2 300.		
Included in the tool or work			
Storage location			
Replaced by			
In connection with	Engine assembly stand with SWZ number 0495187		
SI-Number	08 18 08 (495)		

Links

[illegible]

72 11 070 Removing and installing/replacing front lower strap for driver's seat



WARNING

Pyrotechnic components.

Danger! Life-threatening injuries!

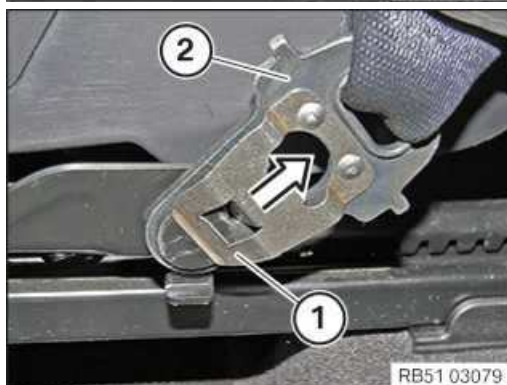
- All work on pyrotechnic parts may be carried out by technically experienced and appropriately trained personnel only.
- Replace any damaged part or ones that have been dropped.
- For additional information see: 72 00 Safety regulations on handling components with gas generators.

PRELIMINARY WORK

1 – Remove the front end fitting



- Slide the cover (1) on the seat belt (2) in an upward direction.



- Turn the end fitting (2) to the rear.
- Carefully pull the lock plate (1) outward and simultaneously feed out the end fitting (2) to the front.
- Remove the end fitting (2) outward.

2 – Remove front seat



WARNING

Pyrotechnic components.

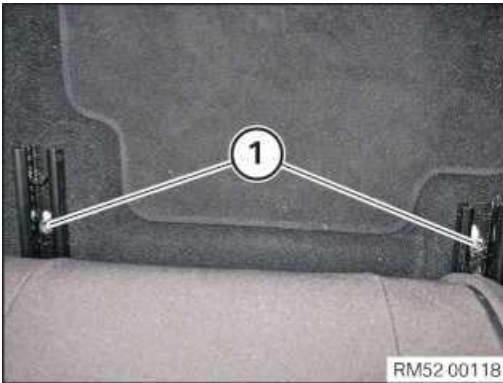
Danger! Life-threatening injuries!

- 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.

Different variants may be installed depending on the vehicle equipment.



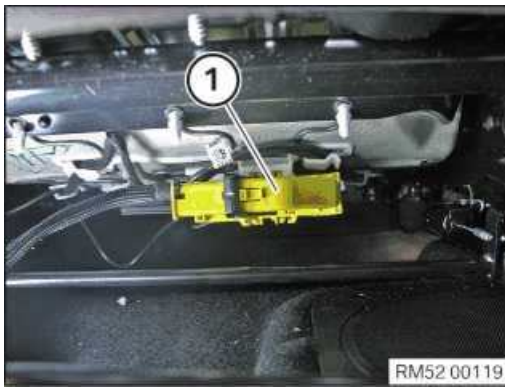
- Adjust front seat completely to the rear.
- Loosen screws (1).



- Adjust front seat completely to the front.
- Loosen screws (1).



- **Disconnecting all battery earth leads**
- See additional information.



RISK OF DAMAGE

Scratches.

Tools and sharp-edged components can cause scratches.

- Protect working area.
- Handle tools and components carefully.
- Cover the door sill using protective covers.
- Fold the front seat back and disconnect the plug connection (1).



RISK OF DAMAGE

Heavy component.

Heavy components can lead to injury or damage.

- Remove and install heavy components with the aid of another person/other persons.
- Remove the front seat with the assistance of an auxiliary person.

► Mounting the front seat on the universal seat mount

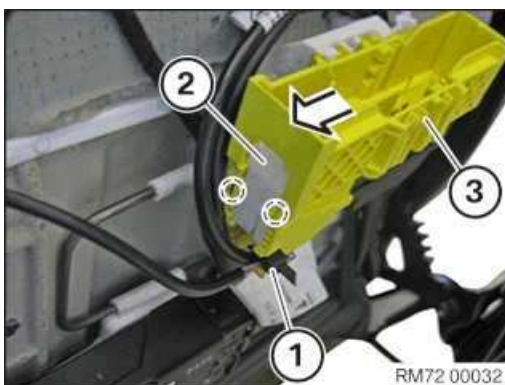
- Mounting the front seat on the special tool (universal seat mount) **2 154 711**.

To guarantee a professional repair, use of special tool (universal seat mount) **2 154 711** is recommended.



MAIN WORK

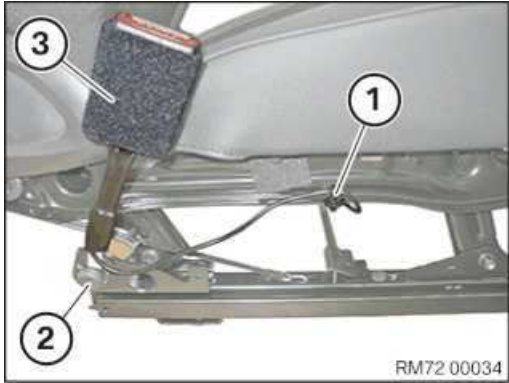
3 – Removing front lower strap



- If necessary detach the cable strap (1). Unlock the latch mechanisms and slide the connectors (2) in direction of arrow out of the connector housing (3).

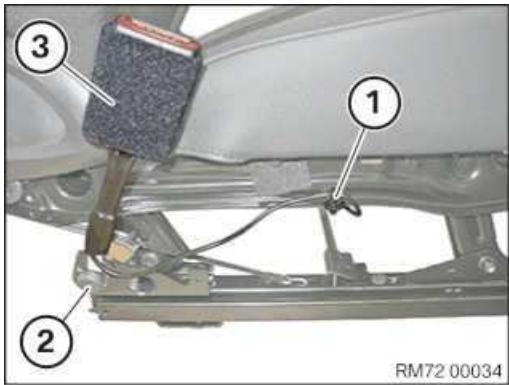


- Detach cable (1) from seat mechanism.



- Release clip (1) at seat mechanism. Loosen screw (2). Remove lower strap (3).

4 – Installing the front lower strap



i

TECHNICAL INFORMATION

Component is encoded against incorrect assembly.

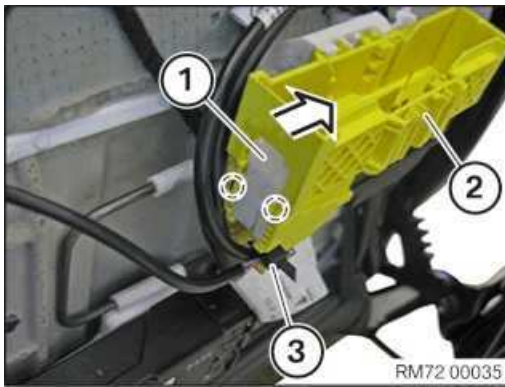
- Mount lower strap (3) to seat mechanism.
- Tighten down screw (2).

Lower strap to seat structure

Oval-head screw		M10	42 Nm
-----------------	--	-----	-------

- Mount cable with clip (1) to seat mechanism.
- Insert cable (1) of the seat mechanism.





- Insert connector (1) into the connector housing (2).
Make sure that the connector housing engages correctly.
- Fasten cable to connector housing (2) with cable strap (3).

POSTPROCESSES

5 – Install front seat



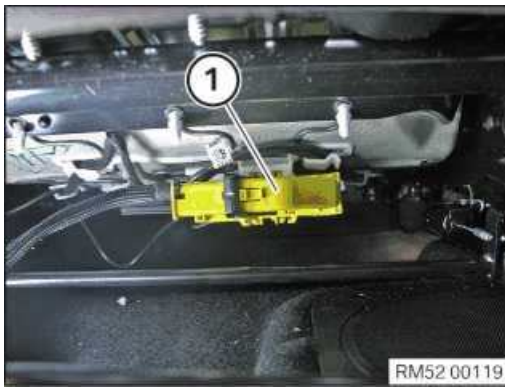
TECHNICAL INFORMATION

Different variants may be installed depending on the vehicle equipment.



► Removing the front seat from the universal seat mount .

- Removing the seat from the special tool (universal seat mount) **2 154 711**.



RISK OF DAMAGE

Scratches.

Tools and sharp-edged components can cause scratches.

- Protect working area.
- Handle tools and components carefully.
- Cover the door sill using protective covers.



RISK OF DAMAGE

Heavy component.

Heavy components can lead to injury or damage.

- Remove and install heavy components with the aid of another person/other persons.

- Lift the front seat into the vehicle with an auxiliary person and position it.
- Lay the front seat back and connect connector (1) .

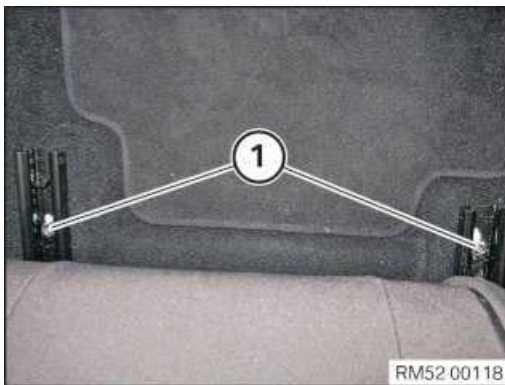
- Adjust the front seat to the rear.
- Renew screws (1).

Parts: Bolts

- Tighten the screws (1).

Seat to body

M10	Renew screw.	Tightening torque	42 Nm
-----	--------------	-------------------	-------



- Adjust the front seat to the front.
- Renew screws (1).

Parts: Bolts

- Tighten the screws (1).

Seat to body

M10	Renew screw.	Tightening torque	42 Nm
-----	--------------	-------------------	-------

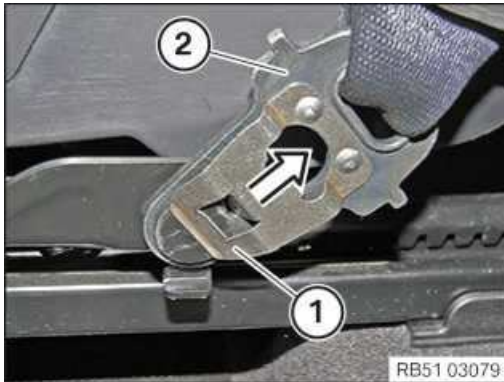


► Disconnecting all battery earth leads



- See additional information.

6 – Install front end fitting



- Feed in end fitting (2) and engage.
- Pull the end fitting (2) in direction of arrow until the lock plate (1) engages audibly.

The end fitting can be turned on the bolt if the lock plate is engaged correctly.

Check

- Check if the end fitting can be turned on the bolt.

Result

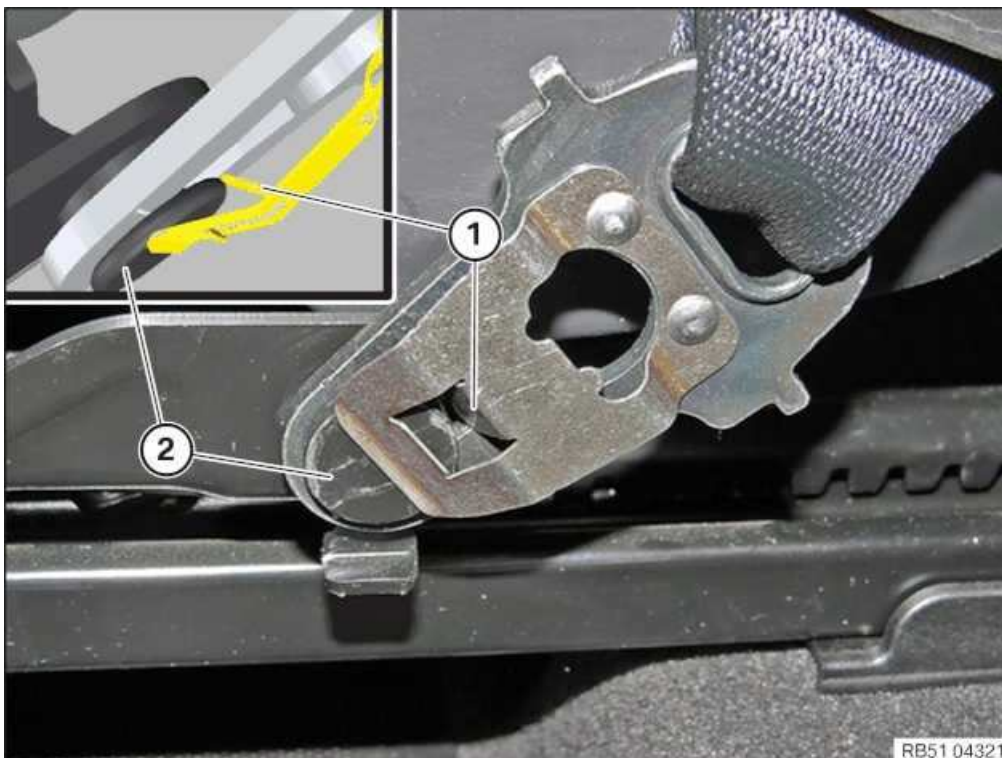
» The end fitting cannot be turned.

Measure

- Engage lock plate into place again.

► Correctly mount the front end fitting

End fitting



- Make sure that the retaining tab (1) correctly engages behind the bolt (2).



WARNING

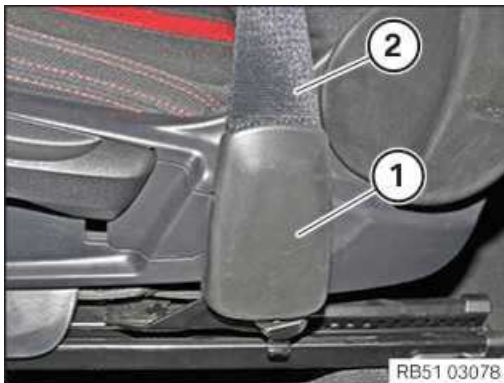
Malfunction with incorrectly secured components.

Danger of injury!

- Ask a second person to check the torque or latch mechanism (four-eyes principle).
- Both persons must document that the work has been carried out correctly in the vehicle records.

- Observe the following animation:

Your browser doesn't support HTML5 video.



- Slide the cover (1) on the seat belt (2) in a downward direction.
- Perform the concluding check: Pull end fitting forward, upward and backward.

Additional Information

Overview of Tightening Torques

Lower strap to seat structure

Used in step [4](#)

Oval-head screw	M10	42 Nm
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Seat to body

Used in step [5](#)

M10	Renew screw.	Tightening torque	42 Nm
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Overview of Special Tools

2 154 711 Fitting aid



Common

Used in step [2](#) [5](#)

Usage	This universal seat fixture is intended for professional repairs of vehicle seats. Universal seat fixture to be used only in conjunction with engine assembly stand with SWZ number 00 2 300.		
Included in the tool or work			
Storage location			
Replaced by			
In connection with	Engine assembly stand with SWZ number 0495187		
SI-Number	08 18 08 (495)		

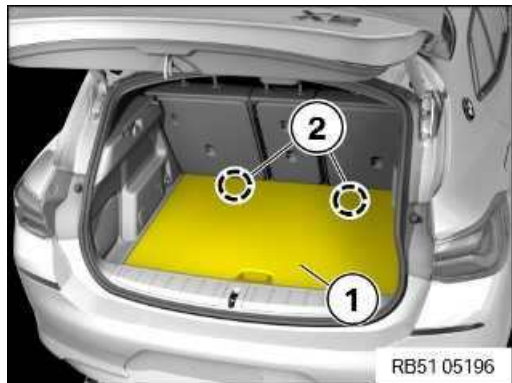
Links

[illegible]

72 11 097 Removing and installing/replacing rear centre lower strap fitting

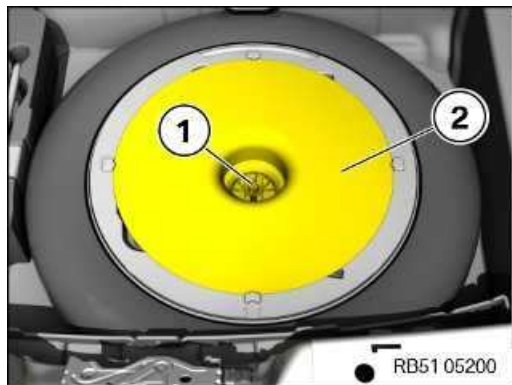
PRELIMINARY WORK

1 – Removing the luggage compartment removable panel

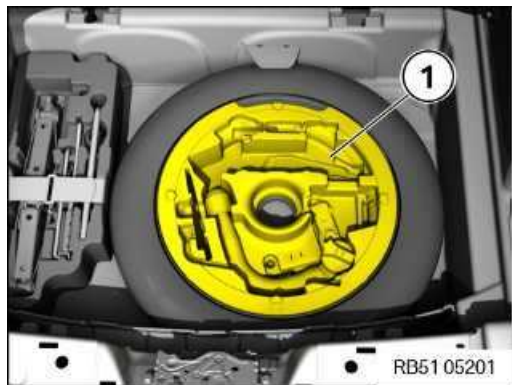


- Raise the luggage compartment removable panel (1) slightly at the handle, detach it from the latch mechanisms (2) and remove it toward the back.

2 – Removing the compact spare wheel



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

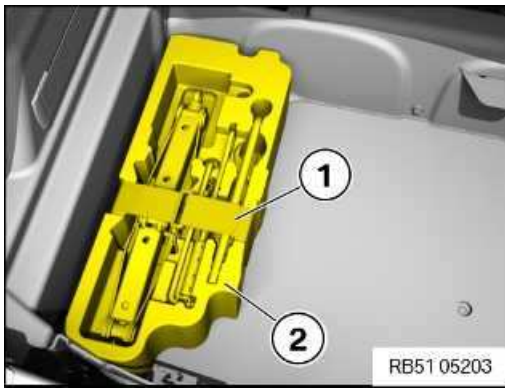


- Remove the oddments tray from the emergency wheel (1).



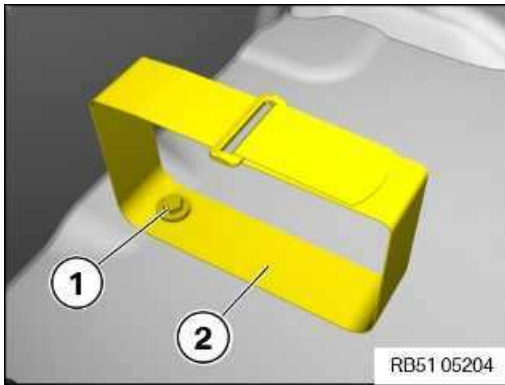
- Remove the emergency wheel (1).

3 – Remove the tool kit



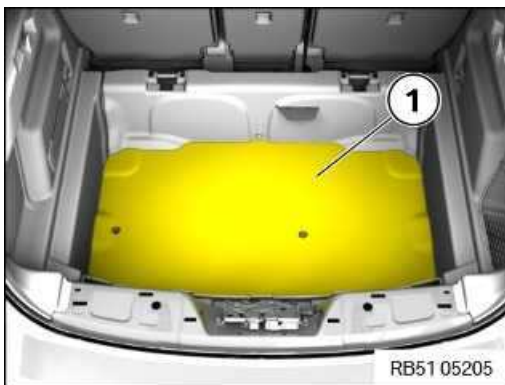
- Open the hook and loop tape (1).
- Remove the tool kit (2).

4 – Remove the hook and loop tape for the tool kit



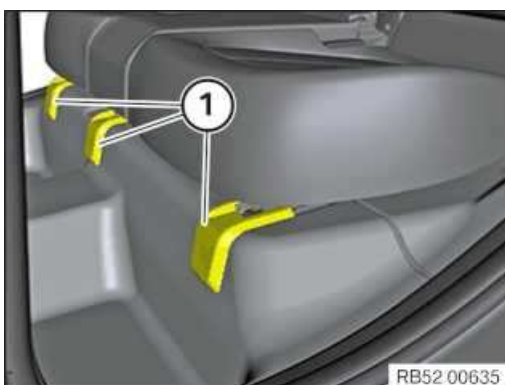
- Loosen screw (1).
- Remove the hook and loop tape (2).

5 – Removing the luggage compartment floor trim panel

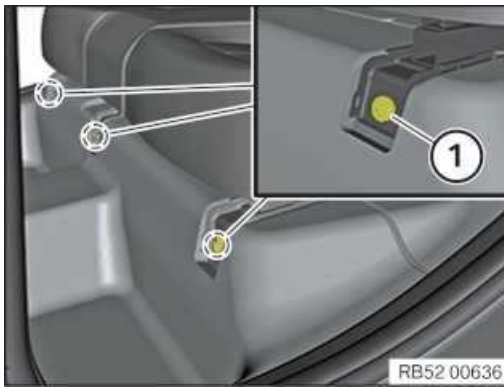


- Remove the luggage compartment floor trim panel (1) upwards.

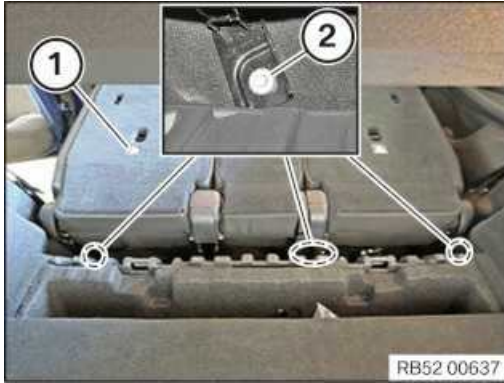
6 – Remove seat bench



- Unclip the cover (1) forwards.



- Loosen screws (1).



RISK OF DAMAGE

Scratches.

Tools and sharp-edged components can cause scratches.

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

- Cover the door sill using protective covers.
- Fold down rear seat backrest (1) on left and right.
- Loosen screws (2).
- Disconnect existing plug connections where required.



RISK OF DAMAGE

Heavy component.

Heavy components can lead to injury or damage.

- Remove and install heavy components with the aid of another person/other persons.

- Lift out rear seat bench with the assistance of a second person.

MAIN WORK

7 – Remove rear middle lower strap



- Press the upholstery (1) to the side. Loosen screw (2).



- Remove the lower strap (1).

8 – Installing the central rear lower strap



- Feed in lower strap (1).

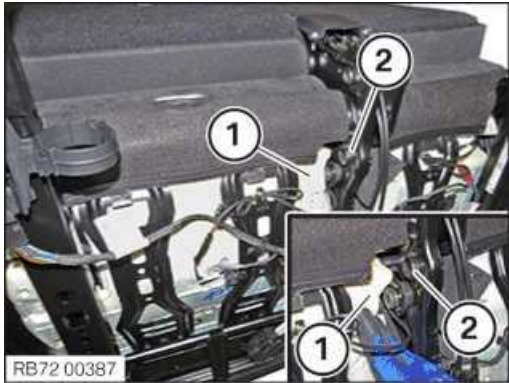


- Make sure the retaining lug (1) is positioned correctly.



TECHNICAL INFORMATION

Component is encoded against incorrect assembly.



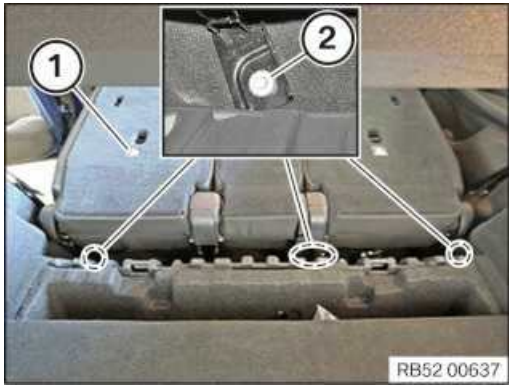
- Press the upholstery (1) to the side.
- Tighten down screw (2).

Lower strap to seat structure

Oval-head screw		M10	42 Nm
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POSTPROCESSES

9 – Install rear seat bench



RISK OF DAMAGE

Scratches.

Tools and sharp-edged components can cause scratches.

- Protect working area.
- Handle tools and components carefully.
- Cover the door sill using protective covers.

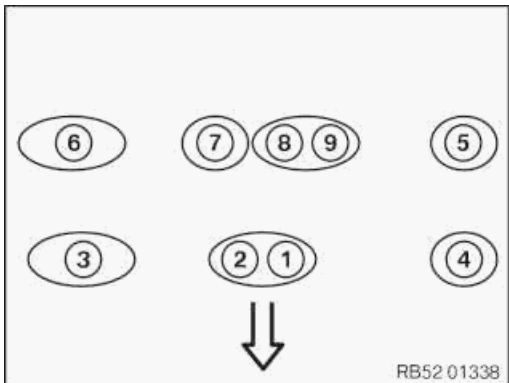
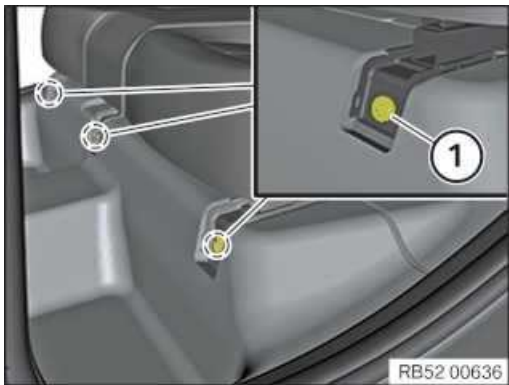


RISK OF DAMAGE

Heavy component.

Heavy components can lead to injury or damage.

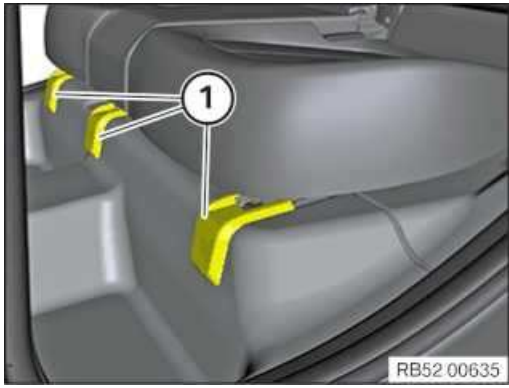
- Remove and install heavy components with the aid of another person/other persons.
- Insert the rear seat bench into the vehicle and position it with the assistance of a second person.
- If necessary, connect any available plug connections.
- Screw the bolts (2) in a few turns.
- Screw the bolts (1) in a few turns.



- Tighten the screws in a sequence from 1-9.

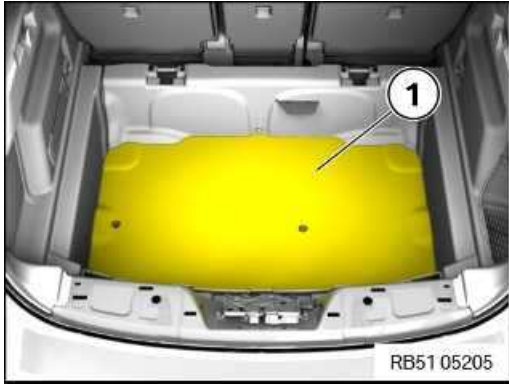
Seat bench to body

Oval-head screw		42 Nm
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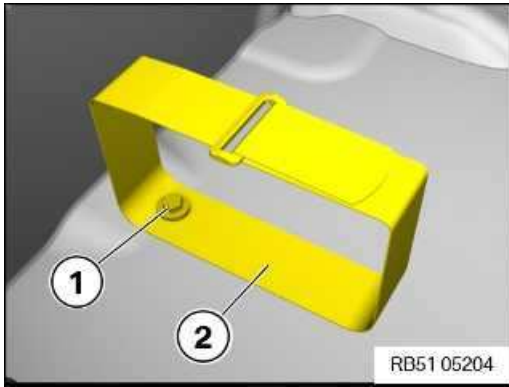
- Clip in the covers (1).

10 – Installing the luggage compartment floor trim panel



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

11 – Inserting the Velcro fastener for the toolkit

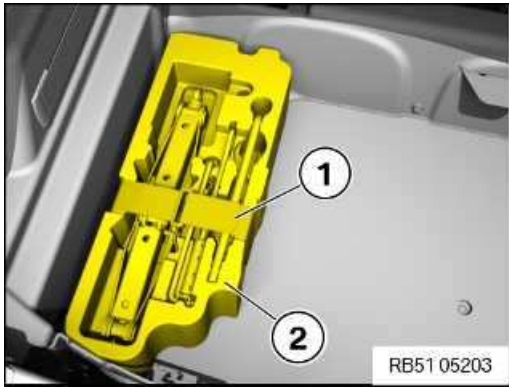


- Insert Velcro fastener (2).
- Tighten down screw (1).

Toolkit hook and loop tape to body

Bolt M6 x 20		Tightening torque	4 Nm
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12 – Install the tool kit

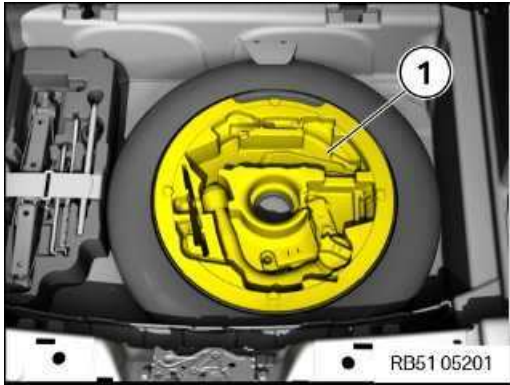


- Install the tool kit (2).
- Close the hook and loop tape (1).

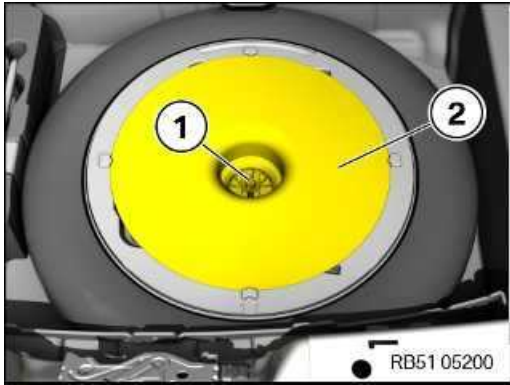
13 – Install the emergency wheel



- Insert compact spare wheel(1).

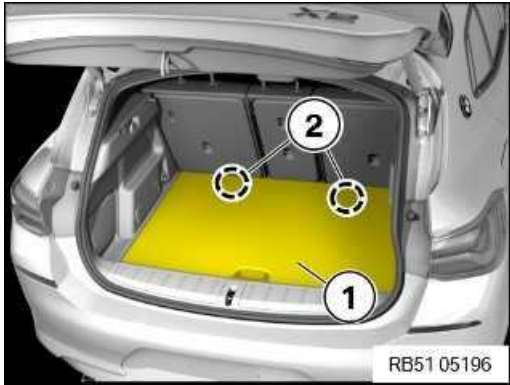


- Insert oddments tray into the compact spare wheel (1).



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

14 – Installing the luggage compartment removable panel



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

Additional Information

Overview of Tightening Torques

Lower strap to seat structure

Used in step 8

Oval-head screw	M10	42 Nm
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Seat bench to body

Used in step 9

Oval-head screw		42 Nm
-----------------	--	-------

Bolt M6 x 20		Tightening torque	4 Nm
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72 11 103 Removing and installing/replacing rear centre seat belt



RISK OF DAMAGE

Scratches.

Tools and sharp-edged components can cause scratches.

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

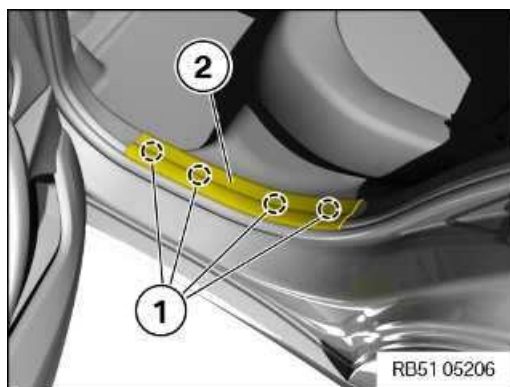
PRELIMINARY WORK

1 – 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

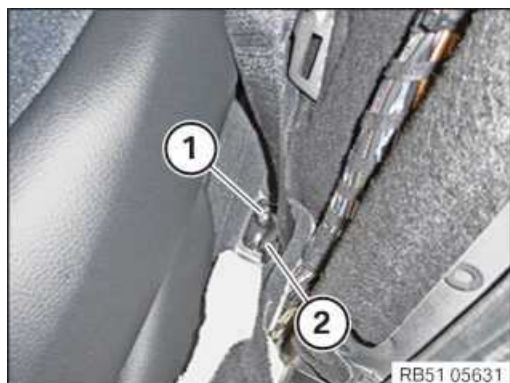
- Unclip the clips (1) of the door sill cover strip (2).
- Remove the door sill cover strip (2).

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



NOTICE

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

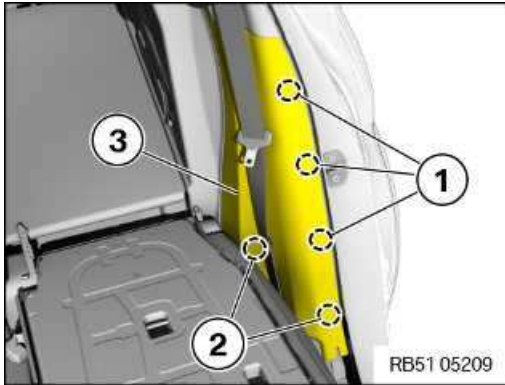


► Remove the bottom C-pillar trim panel

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

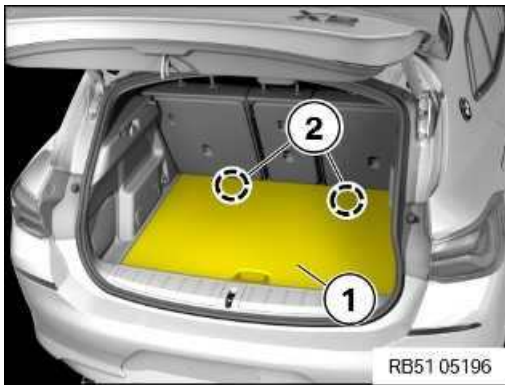


- Release the edge protection (1) in area of the bottom C-pillar trim panel.



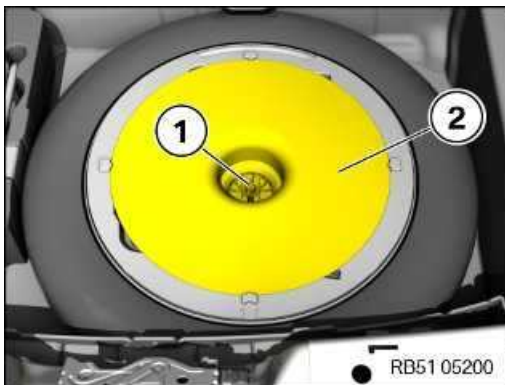
- Clip in the C-pillar trim panel (3) on the bottom with the clamps (1) and the clips (2).
- Detach end fitting and remove the bottom C-pillar trim panel (3).

3 – Removing the luggage compartment removable panel

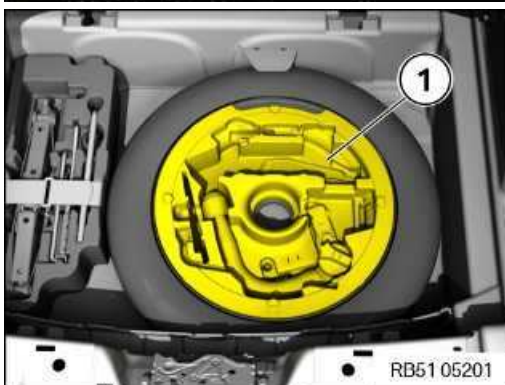


- Raise the luggage compartment removable panel (1) slightly at the handle, detach it from the latch mechanisms (2) and remove it toward the back.

4 – Removing the compact spare wheel



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

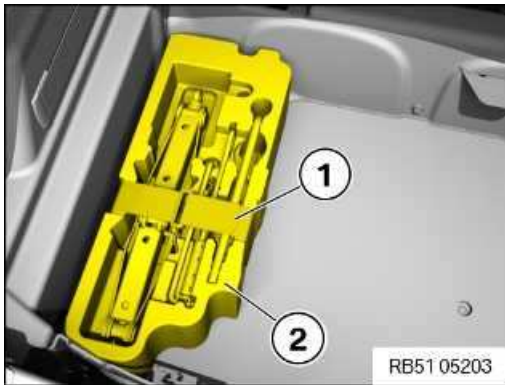


- Remove the oddments tray from the emergency wheel (1).



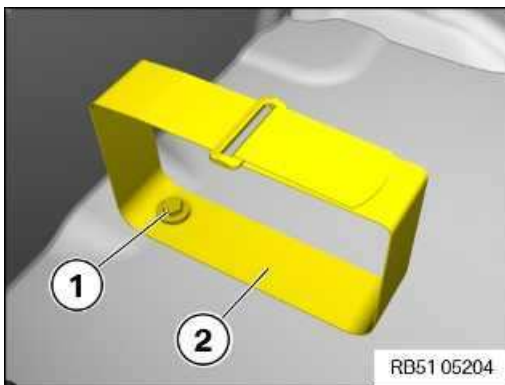
- Remove the emergency wheel (1).

5 – Remove the tool kit



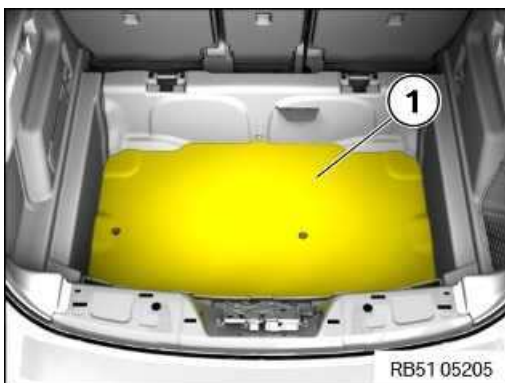
- Open the hook and loop tape (1).
- Remove the tool kit (2).

6 – Remove the hook and loop tape for the tool kit



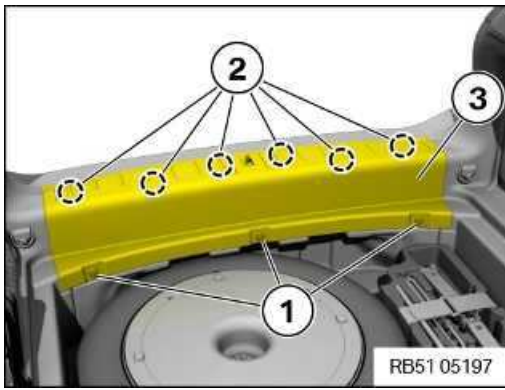
- Loosen screw (1).
- Remove the hook and loop tape (2).

7 – Removing the luggage compartment floor trim panel



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

8 – Removing the loading edge trim

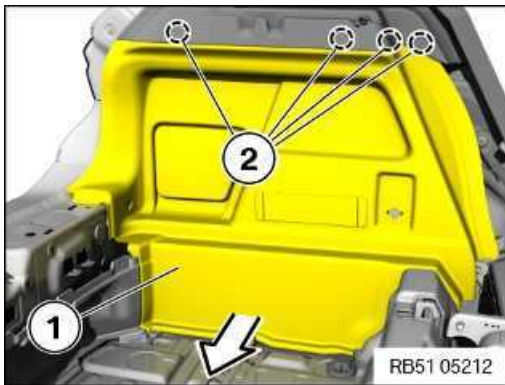


- Loosen the expanding rivet (1).
- Unclip the loading edge trim (3) from the clamps (2) toward the top and remove.

9 – Remove luggage compartment wheel arch trim panel on left.



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

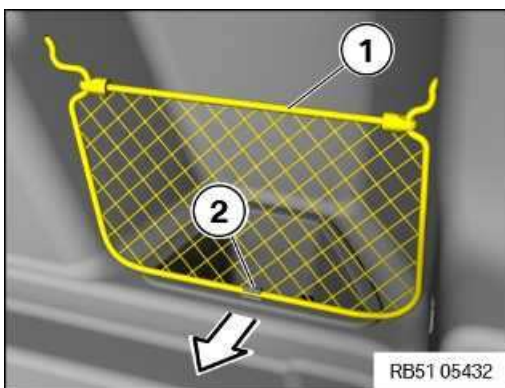


NOTICE

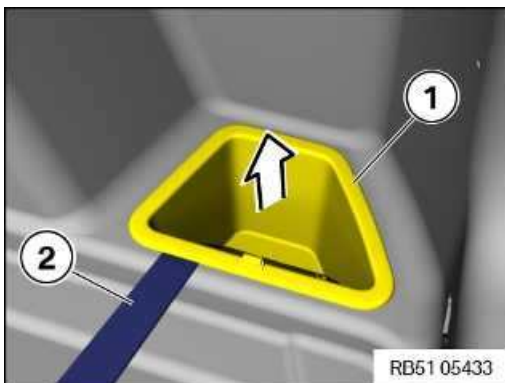
Schematic diagram is for example purposes. Some parts may differ in certain details.

- 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.

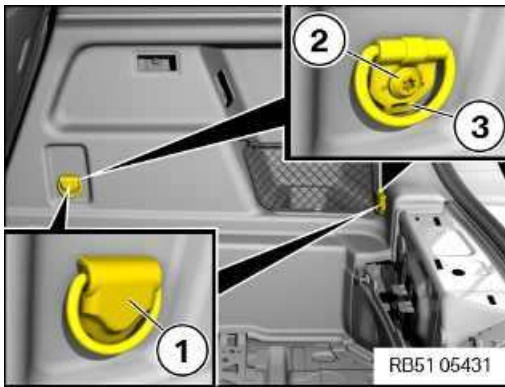
10 – Removing right luggage compartment wheel arch trim panel



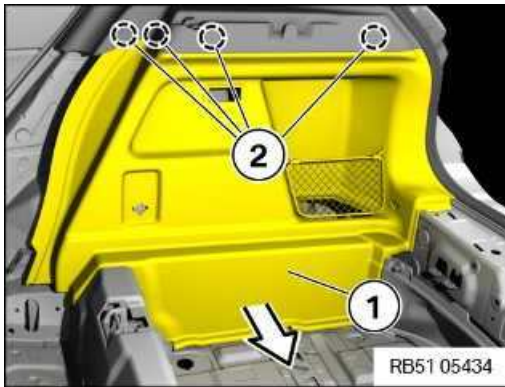
- Release the storage net (1) from the latch mechanism (2) in the direction of arrow and fold up.



- 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.

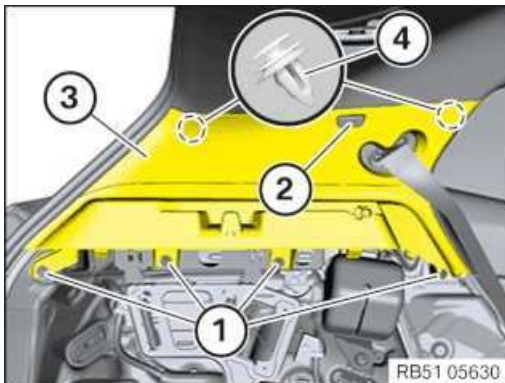
- Pull the luggage compartment wheel arch trim panel (1) on the bottom in the direction of the arrow and guide it out of the guides (2) and the C-pillar trim panel and remove.

11 – 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).

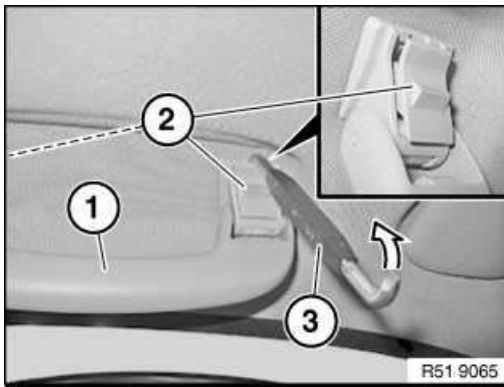
12 – Removing all grab handles



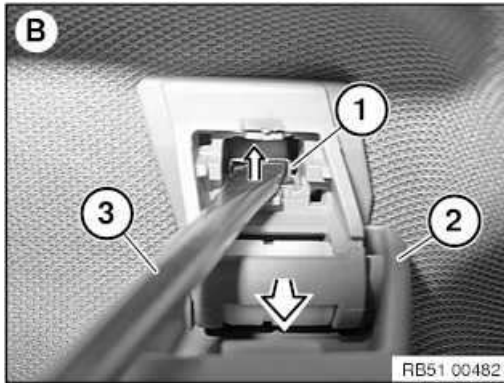
NOTICE

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

► Removing the grab handle

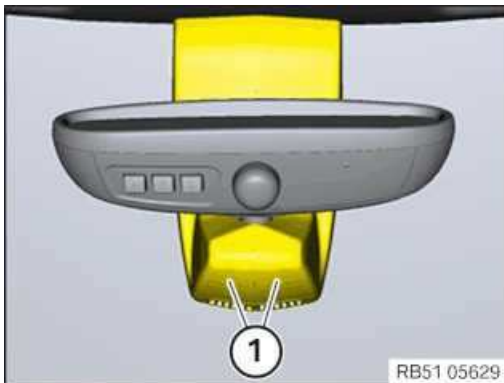


- Expand the grab handle (1) towards the bottom.
- Disengage and remove the locking insert (2) with an angle screwdriver (3) as shown.



- 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).

13 – 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.

14 – 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.

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

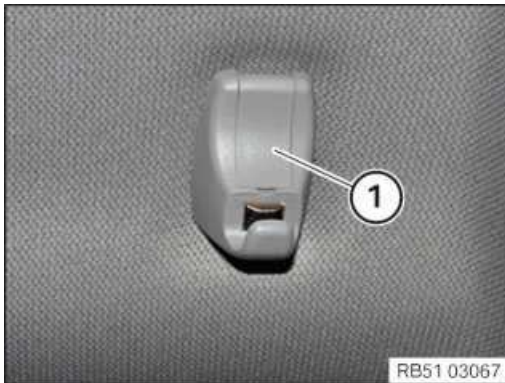


NOTICE

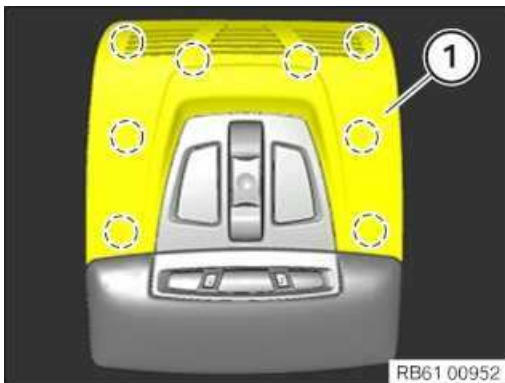
Description is for left component only. Procedure on the right side is identical.

► Remove the counter support for the sun visor

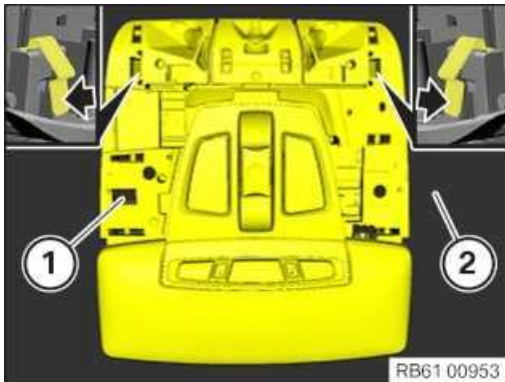
- Open the cover (1) and release the screw underneath.
- Remove the counter support downward.



16 – 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.

17 – 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.



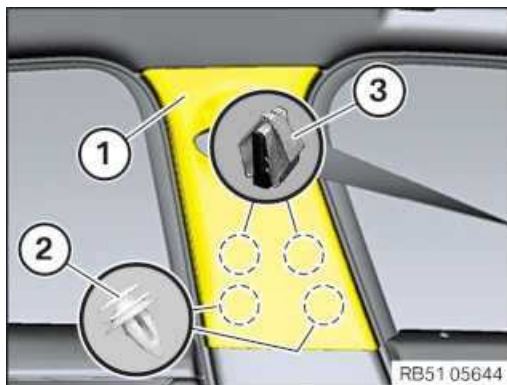
- Unclip cover (1) and unscrew the screw below it.
- Release the A-pillar trim panel (2) from the clips (3) and guide out upwards.

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



NOTICE

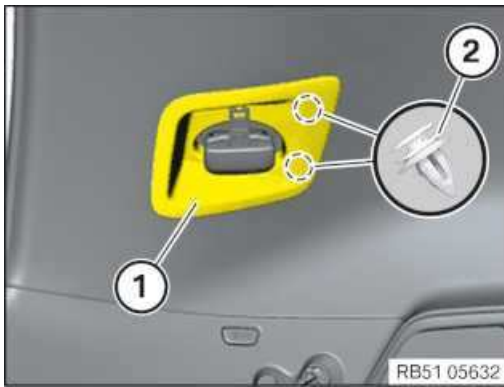
Description is for left component only. Procedure on the right side is identical.



► 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.

19 – 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).

20 – Lower roofliner

Prerequisite

The front seats have been fully adjusted towards the bottom.

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

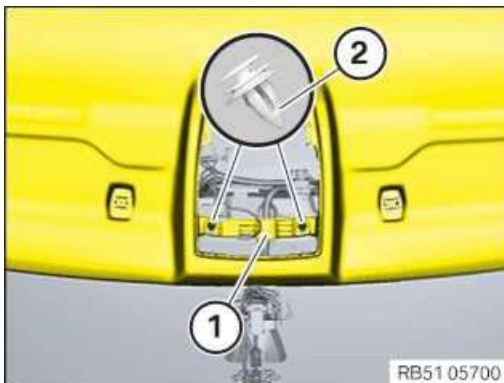


RISK OF DAMAGE

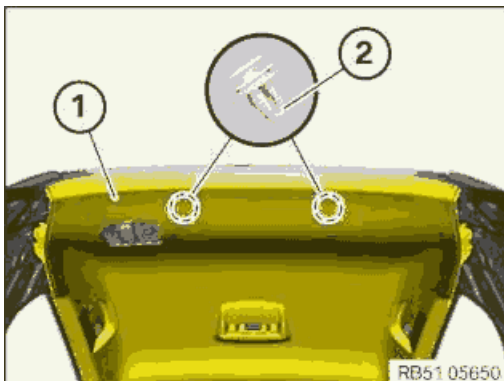
Fold the headlining.

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

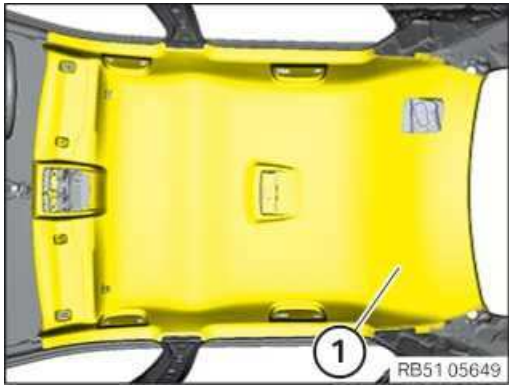
- Carry out tasks with a second person to assist.
- Support the headlining at the front and back.



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



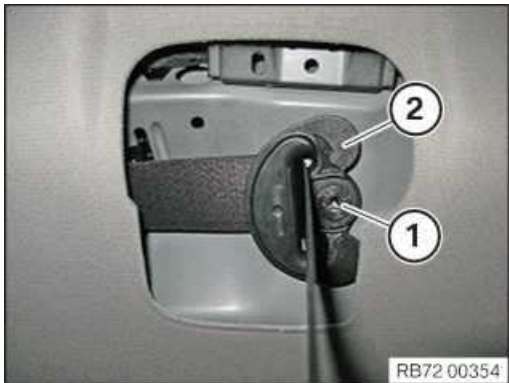
- Carefully release the headlining (1) at the clips (2).



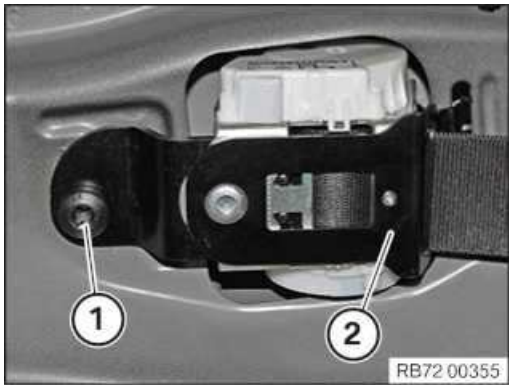
- Carefully guide out the headlining (1) at the respective edge protection and place it onto the seats in the vehicle.

MAIN WORK

21 – Remove rear centre seat belt

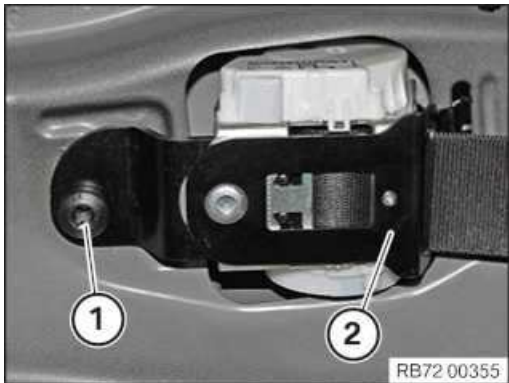


- Loosen screw (1).
- Remove the seat belt guide loop (2).



- Loosen screw (1).
- Thread out the inertia reel (2).

22 – Install rear seat belt in the centre



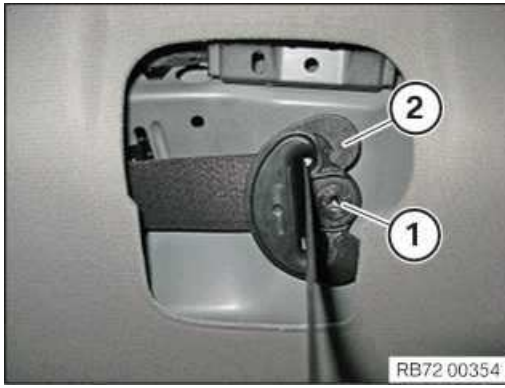
TECHNICAL INFORMATION

Component is encoded against incorrect assembly.

- Mount the inertia reel (2).
- Tighten down screw (1).

Rear inertia reel to body

Oval-head screw		M10	42 Nm
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- Mount seat belt guide loop (2).
- Tighten down screw (1).

Rear seat belt guide loop to body

Oval-head screw		M10	42 Nm
-----------------	--	-----	-------

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.

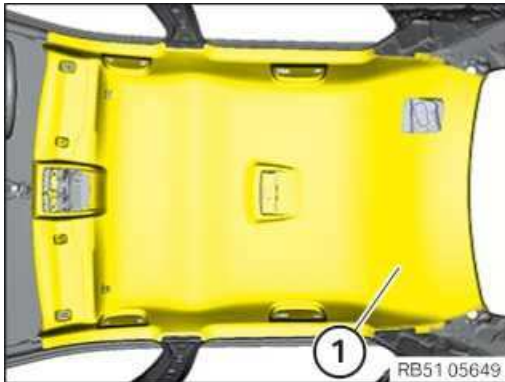


RISK OF DAMAGE

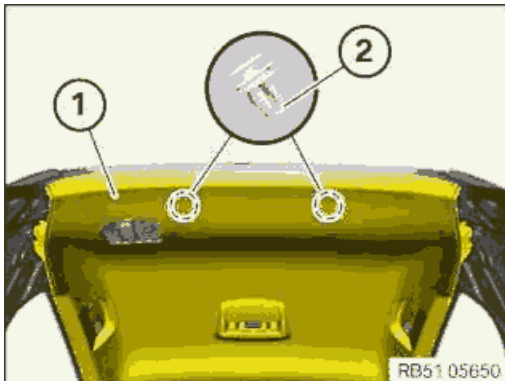
Fold the headlining.

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

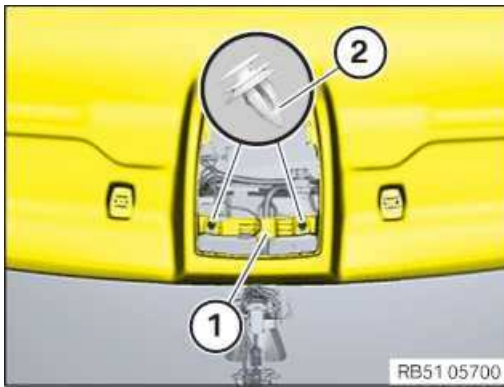
- Carry out tasks with a second person to assist.
- Support the headlining at the front and back.



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

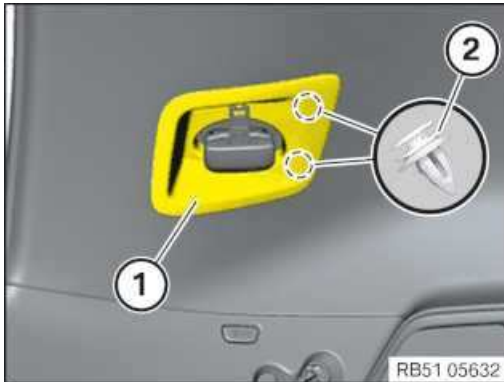


- Clip in the headlining (1) using the clips (2).



- 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

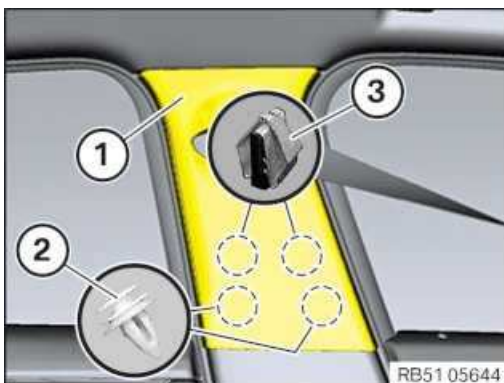
Description is for left component only. Procedure on the right side is identical.

► 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

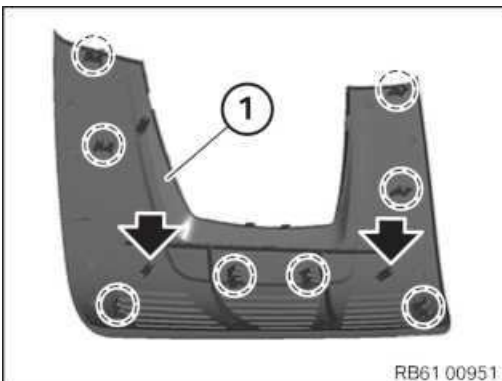
- Tighten down screw.

A-pillar trim panel to body

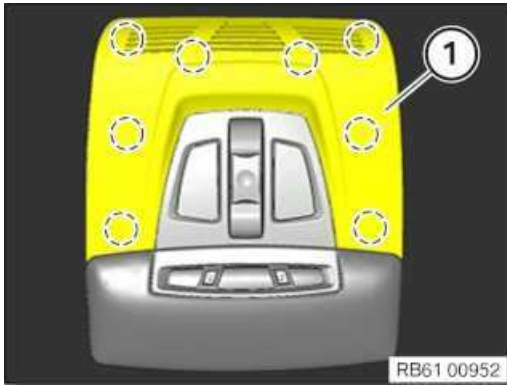
M5x42 screw	Renew screw	Tightening torque	2,2 Nm
-------------	-------------	-------------------	--------

- Clip in the cover (1).

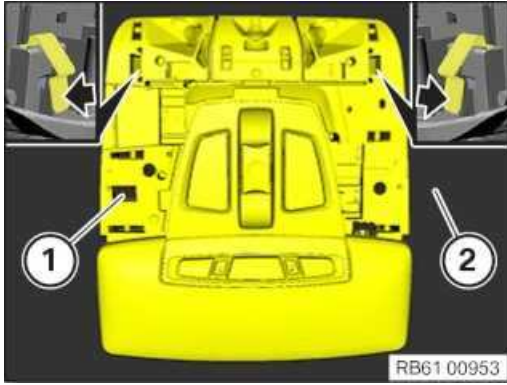
27 – Install the roof function centre



- 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.

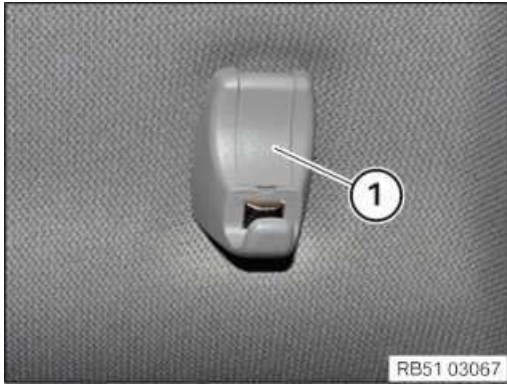
- Connect associated connector.
- Join the roof function centre (1) to the headlining (2).

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
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29 – Install both sun visors



NOTICE

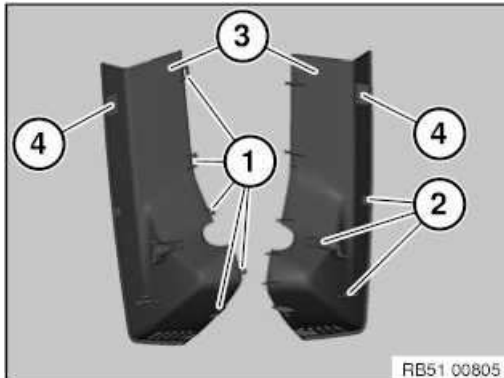
Description is for left component only. Procedure on the right side is identical.

► 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

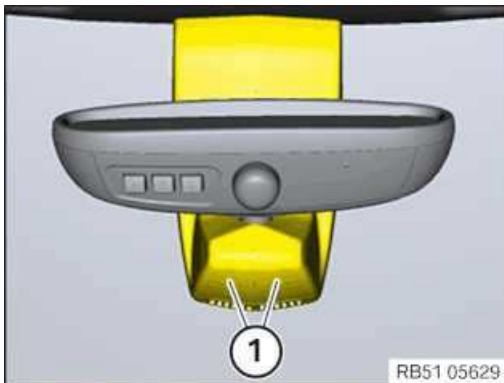


- Check the latch mechanisms (1) and guides (2) on the two covers (3) for damage, renew if necessary.

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.

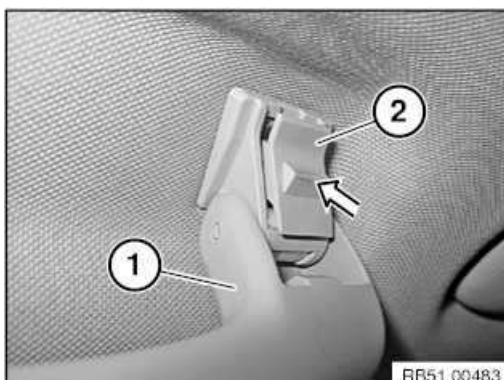
31 – Installing all grab handles



NOTICE

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

► Installing the grab handle



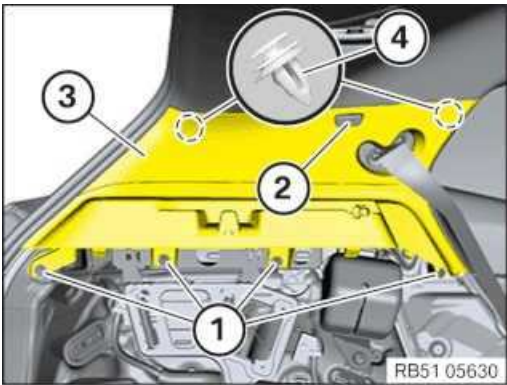
- Insert the grab handle (1) into body.
- Correctly clamp in the grab handle (1), as otherwise the locking inserts (2) on the grab handle (1) cannot correctly engage.
- Engage the locking inserts (2) on both sides of the grab handle (1).

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

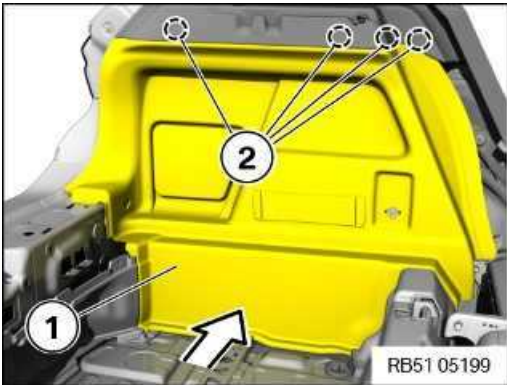
Self-tapping screw		Tightening torque	4 Nm
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- Tighten the screws (1).

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).

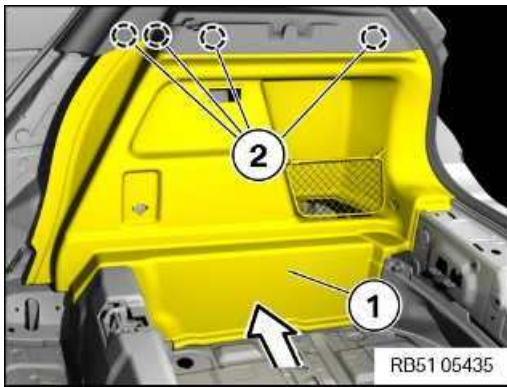
Lashing eye in luggage compartment

Bolt M8 x 22		Tightening torque	21 Nm
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- Clip in the covers (1).



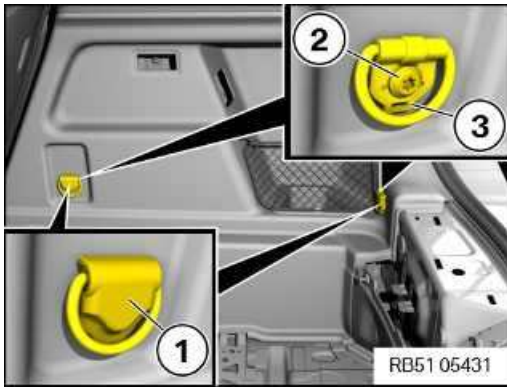
34 – Installing the luggage compartment wheel arch trim panel on the right



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).

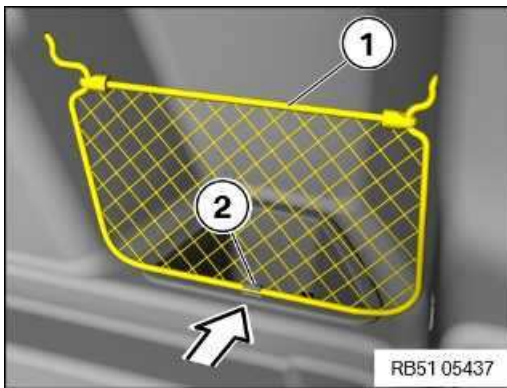
Lashing eye in luggage compartment

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.

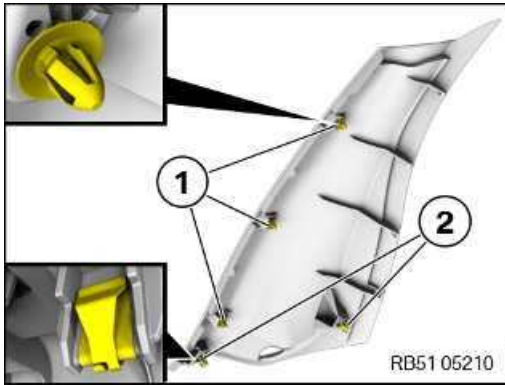
35 – Install C-pillar trim panel at bottom left and right



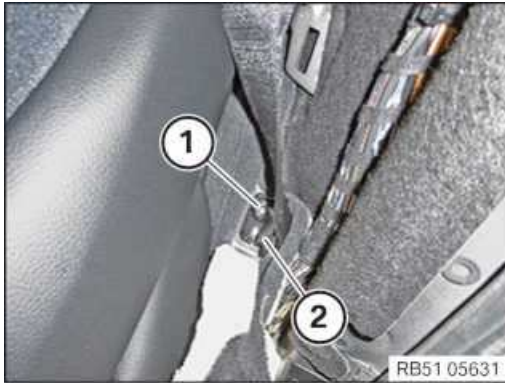
NOTICE

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.

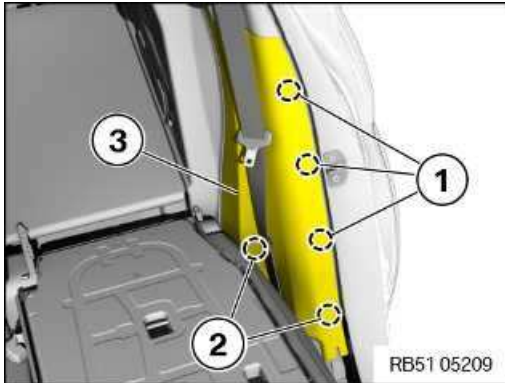


- Insert the end fitting (2) through the C-pillar trim panel.
- Mount the end fitting (2) and tighten the screw (1).

End fitting to body

Screw	Renew screw.	Tightening torque	42 Nm
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- 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.

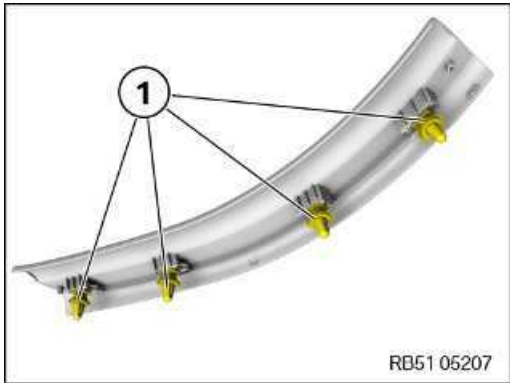
36 – Install the door sill cover strip on the rear left and right



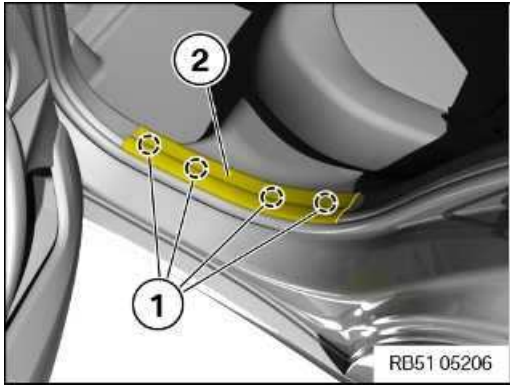
NOTICE

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

► Installing the rear door sill cover strip

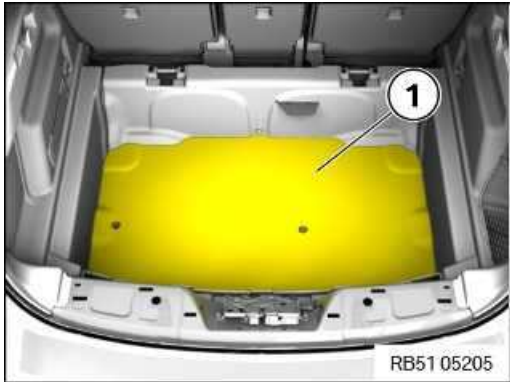


- Check the clips (1) for damage and renew where required.



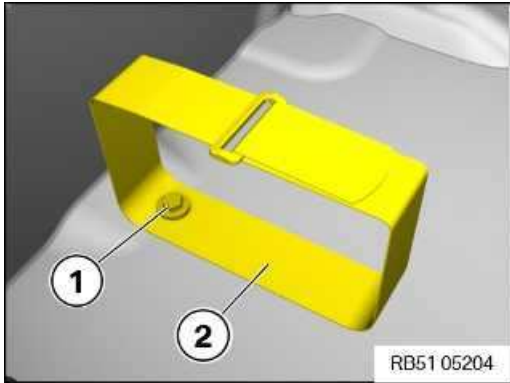
- Clip in the door sill cover strip (2) with the clips (1).

37 – Installing the luggage compartment floor trim panel



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

38 – Inserting the Velcro fastener for the toolkit

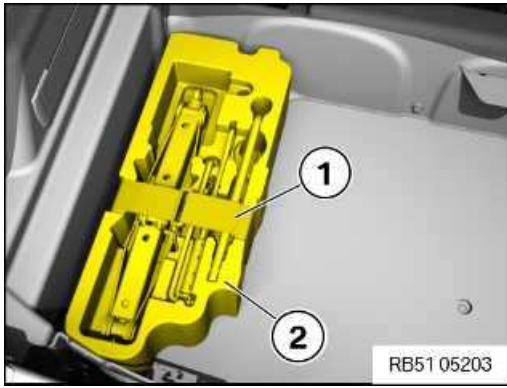


- Insert Velcro fastener (2).
- Tighten down screw (1).

Toolkit hook and loop tape to body

Bolt M6 x 20		Tightening torque	4 Nm
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39 – Install the tool kit

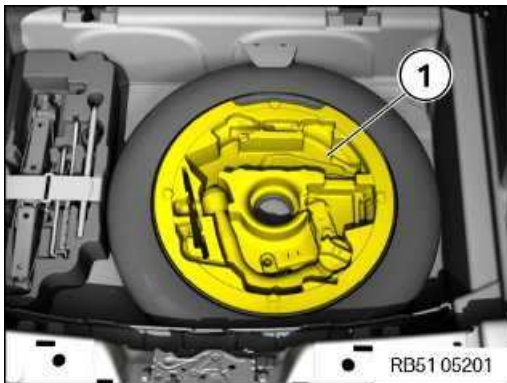


- Install the tool kit (2).
- Close the hook and loop tape (1).

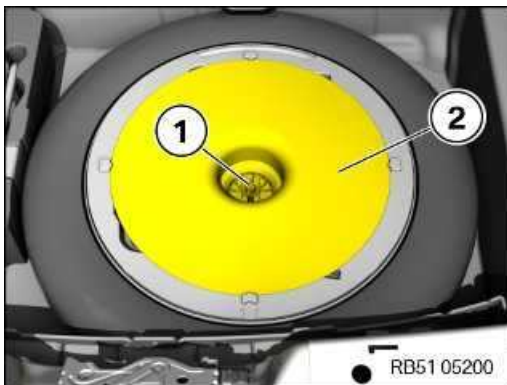
40 – Install the emergency wheel



- Insert compact spare wheel(1).

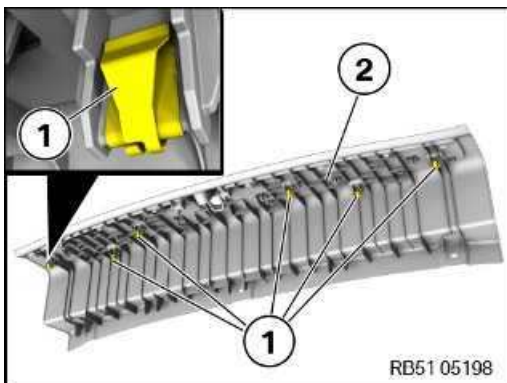


- Insert oddments tray into the compact spare wheel (1).

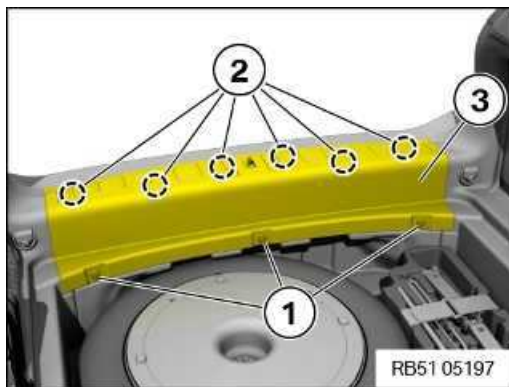


- Insert the lid (2).
- Hand-tighten the bolt (1).

41 – Installing loading edge trim

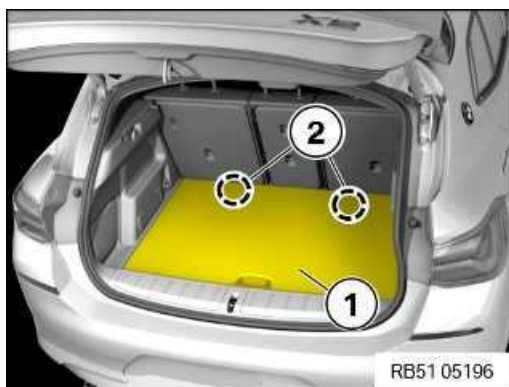


- Check the clamps (1) at the loading edge trim (2) for damage and renew if necessary.



- 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.

Additional Information

Overview of Tightening Torques

Rear inertia reel to body

Used in step [22](#)

Oval-head screw	M10	42 Nm
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Rear seat belt guide loop to body

Used in step [22](#)

Oval-head screw	M10	42 Nm
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A-pillar trim panel to body

Used in step [26](#)

M5x42 screw	Renew screw	Tightening torque	2,2 Nm
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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
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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
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End fitting to body

Used in step [35](#)

Screw	Renew screw.	Tightening torque	42 Nm
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Bolt M6 x 20		Tightening torque	4 Nm
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Overview of Special Tools

0 496 569 (00 9 325) Wedge



Common		Used in step	16	18
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)			

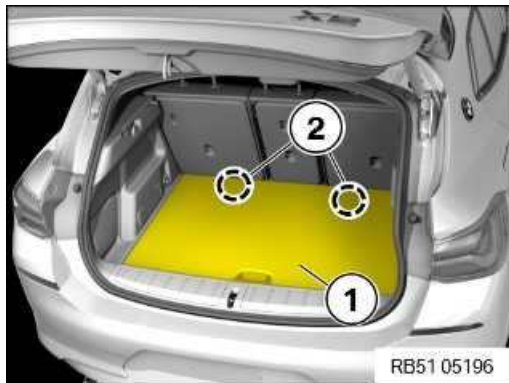
Links

General repair instructions	Used in step
72 00 ... Safety regulations for handling components with gas generators	17 26

72 11 096 Removing and installing/replacing rear left or right lower strap

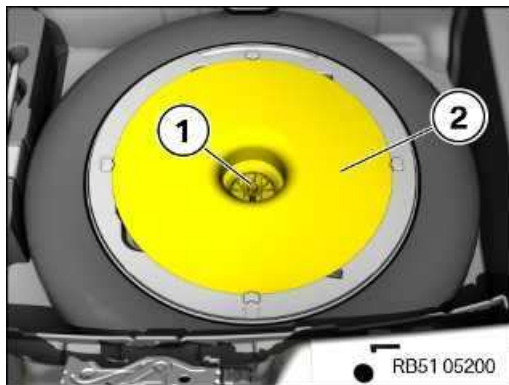
PRELIMINARY WORK

1 – Removing the luggage compartment removable panel

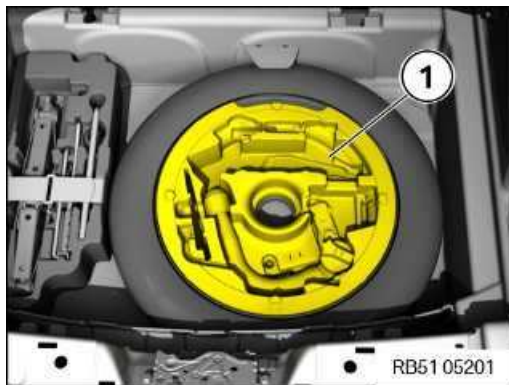


- Raise the luggage compartment removable panel (1) slightly at the handle, detach it from the latch mechanisms (2) and remove it toward the back.

2 – Removing the compact spare wheel



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

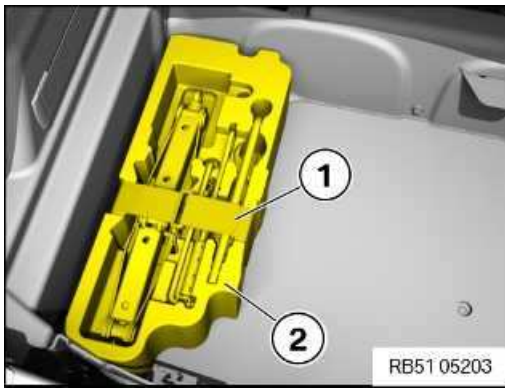


- Remove the oddments tray from the emergency wheel (1).



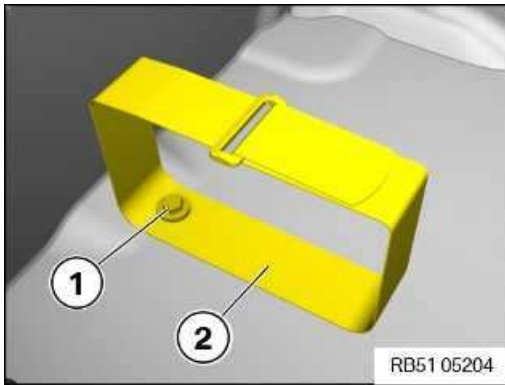
- Remove the emergency wheel (1).

3 – Remove the tool kit



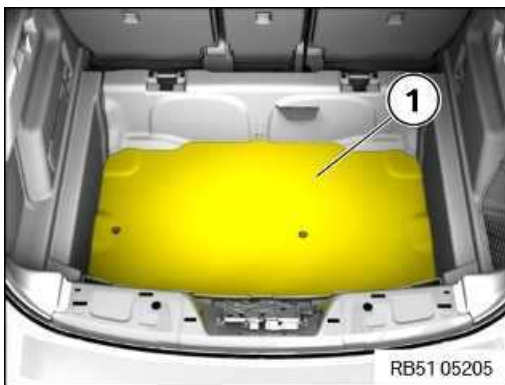
- Open the hook and loop tape (1).
- Remove the tool kit (2).

4 – Remove the hook and loop tape for the tool kit



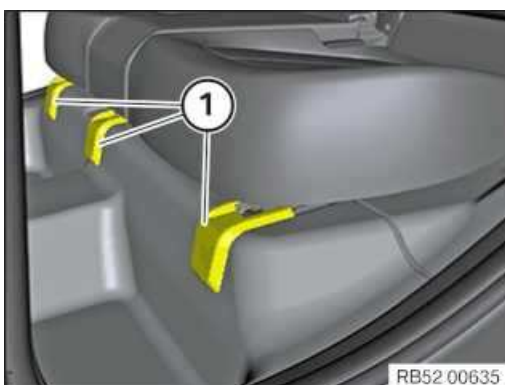
- Loosen screw (1).
- Remove the hook and loop tape (2).

5 – Removing the luggage compartment floor trim panel

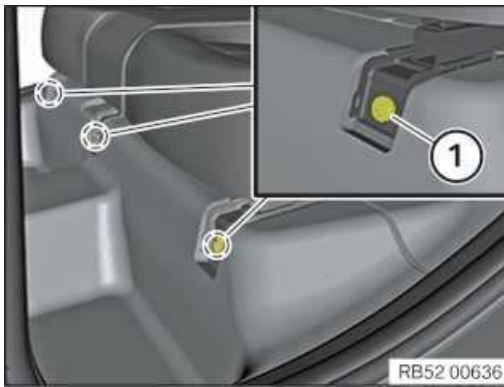


- Remove the luggage compartment floor trim panel (1) upwards.

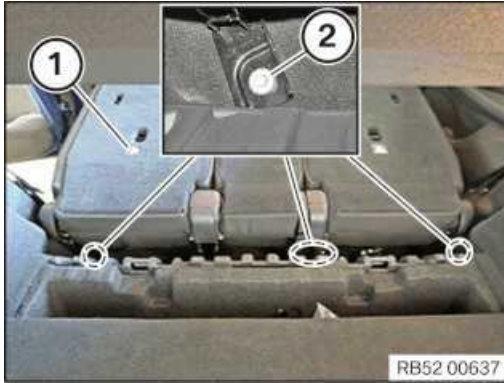
6 – Remove seat bench



- Unclip the cover (1) forwards.



- Loosen screws (1).



RISK OF DAMAGE

Scratches.

Tools and sharp-edged components can cause scratches.

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

- Cover the door sill using protective covers.
- Fold down rear seat backrest (1) on left and right.
- Loosen screws (2).
- Disconnect existing plug connections where required.



RISK OF DAMAGE

Heavy component.

Heavy components can lead to injury or damage.

- Remove and install heavy components with the aid of another person/other persons.

- Lift out rear seat bench with the assistance of a second person.

7 – Remove rear middle lower strap



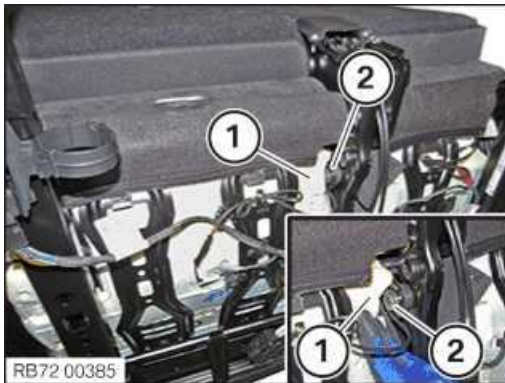
- Press the upholstery (1) to the side. Loosen screw (2).



- Remove the lower strap (1).

MAIN WORK

8 – Remove the outer rear lower strap



- Press the upholstery (1) to the side.
- Loosen screw (2).

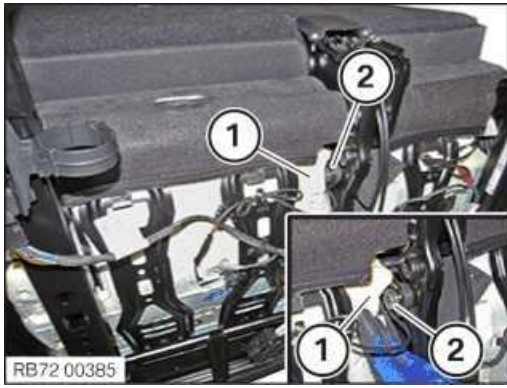


- Remove the lower strap (1).

9 – Install the outer rear lower strap



- Feed in lower strap (1).



- Press the upholstery (1) to the side.
- Tighten down screw (2).

Lower strap to outer seat structure

Torx head screw		M10	40 Nm
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POSTPROCESSES

10 – Installing the central rear lower strap



- Feed in lower strap (1).

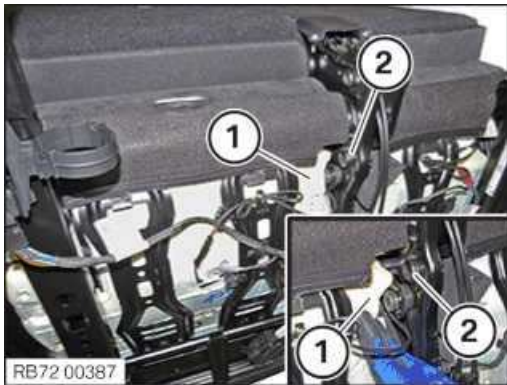


i

TECHNICAL INFORMATION

Component is encoded against incorrect assembly.

- Make sure the retaining lug (1) is positioned correctly.

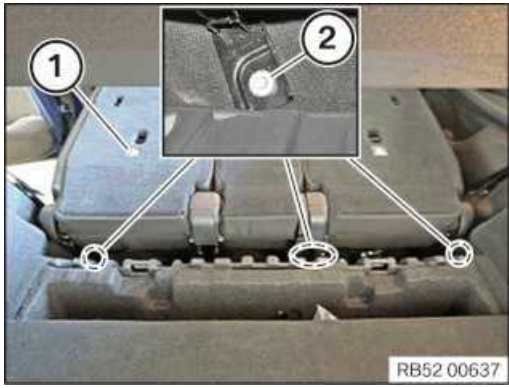


- Press the upholstery (1) to the side.
- Tighten down screw (2).

Lower strap to seat structure

Oval-head screw		M10	42 Nm
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11 – Install rear seat bench



RISK OF DAMAGE

Scratches.

Tools and sharp-edged components can cause scratches.

- Protect working area.
- Handle tools and components carefully.
- Cover the door sill using protective covers.

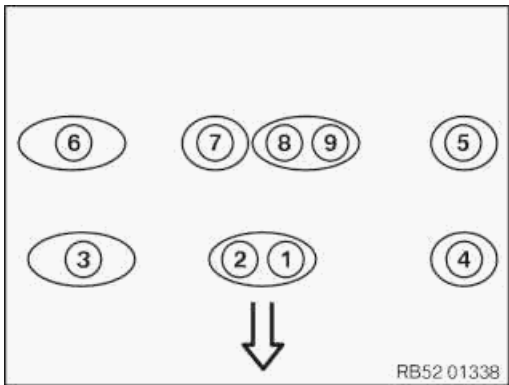
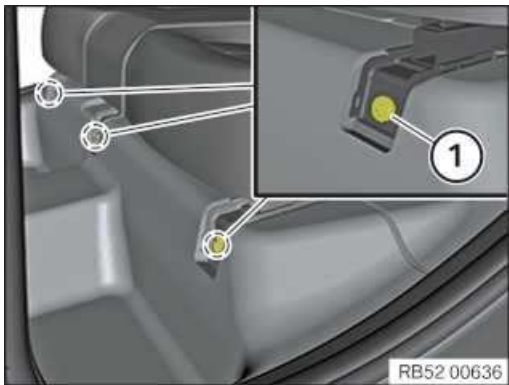


RISK OF DAMAGE

Heavy component.

Heavy components can lead to injury or damage.

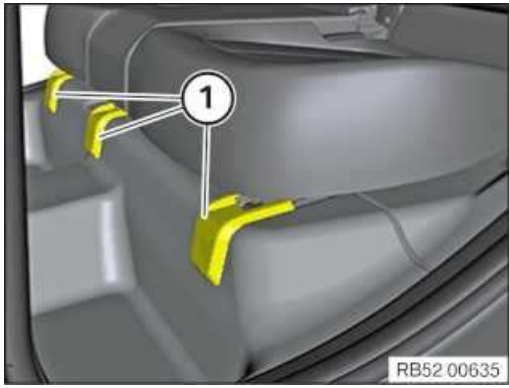
- Remove and install heavy components with the aid of another person/other persons.
- Insert the rear seat bench into the vehicle and position it with the assistance of a second person.
- If necessary, connect any available plug connections.
- Screw the bolts (2) in a few turns.
- Screw the bolts (1) in a few turns.



- Tighten the screws in a sequence from 1-9.

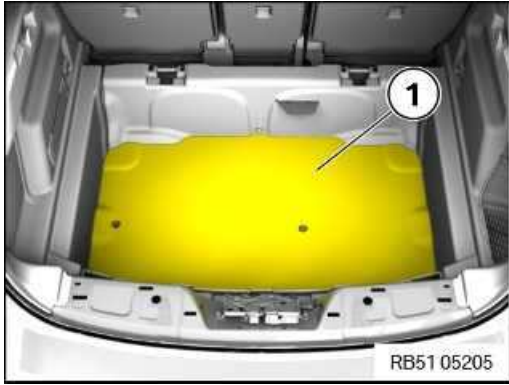
Seat bench to body

Oval-head screw		42 Nm
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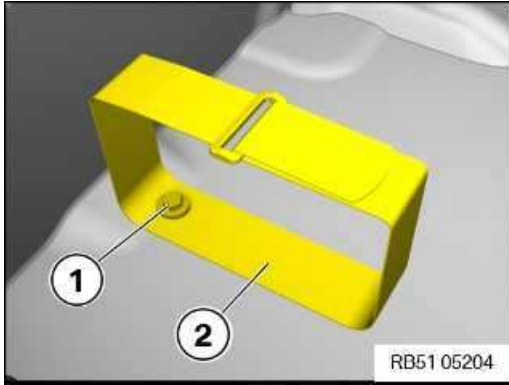
- Clip in the covers (1).

12 – Installing the luggage compartment floor trim panel



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

13 – Inserting the Velcro fastener for the toolkit

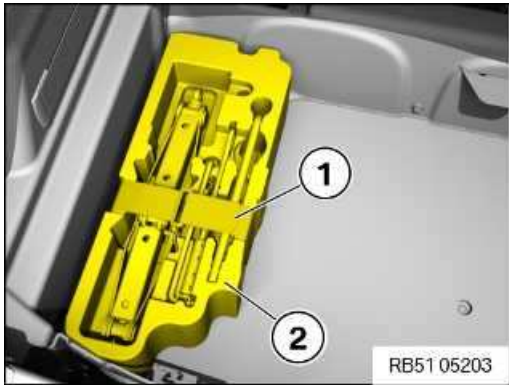


- Insert Velcro fastener (2).
- Tighten down screw (1).

Toolkit hook and loop tape to body

Bolt M6 x 20		Tightening torque	4 Nm
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14 – Install the tool kit

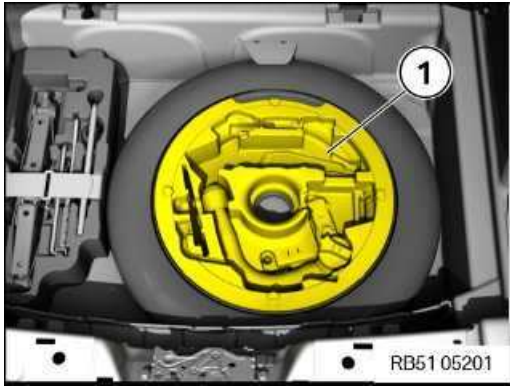


- Install the tool kit (2).
- Close the hook and loop tape (1).

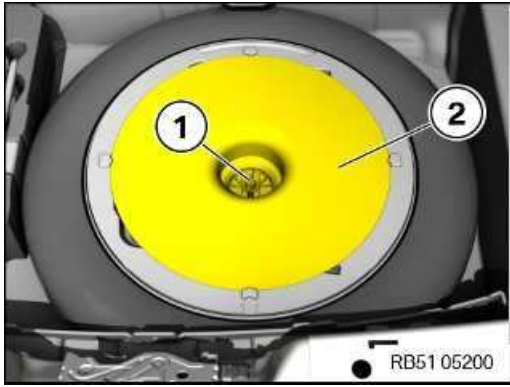
15 – Install the emergency wheel



- Insert compact spare wheel(1).

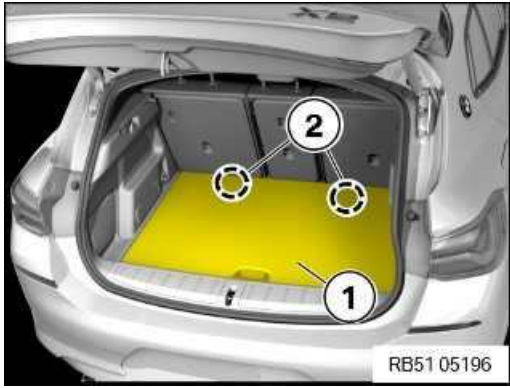


- Insert oddments tray into the compact spare wheel (1).



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

16 – Installing the luggage compartment removable panel



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

Additional Information

Overview of Tightening Torques

Lower strap to outer seat structure			Used in step 9
Torx head screw	M10	40 Nm	
Lower strap to seat structure			Used in step 10
Oval-head screw	M10	42 Nm	

Seat bench to body			Used in step 11
Oval-head screw			42 Nm

Toolkit hook and loop tape to body			Used in step 13
Bolt M6 x 20		Tightening torque	4 Nm

72 11 100 Removing and installing/replacing rear left or right seat belt



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.

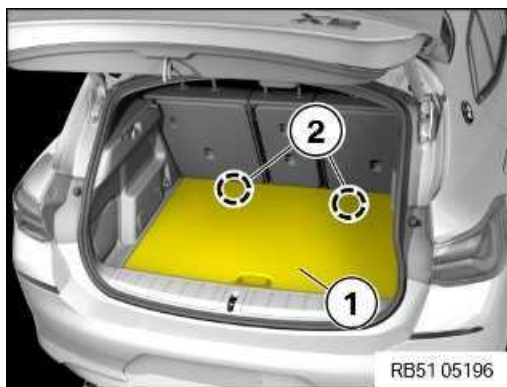
PRELIMINARY WORK

1 – Disconnecting all battery earth leads



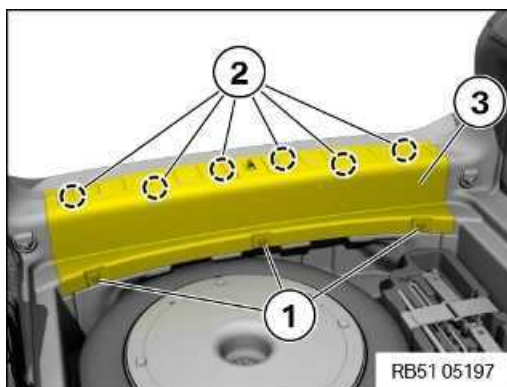
- See additional information.

2 – Removing the luggage compartment removable panel



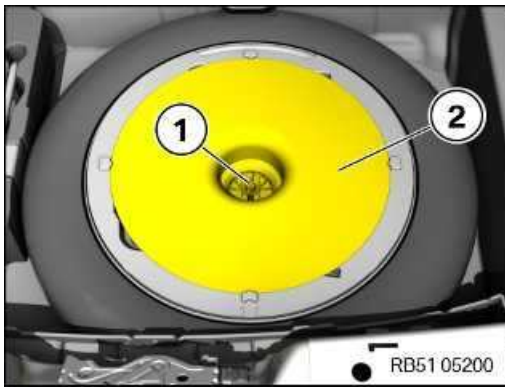
- Raise the luggage compartment removable panel (1) slightly at the handle, detach it from the latch mechanisms (2) and remove it toward the back.

3 – Removing the loading edge trim

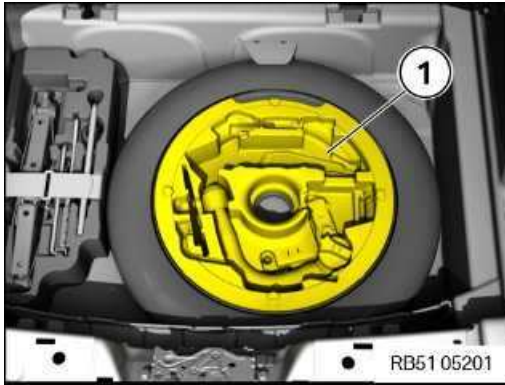


- Loosen the expanding rivet (1).
- Unclip the loading edge trim (3) from the clamps (2) toward the top and remove.

4 – Removing the compact spare wheel



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

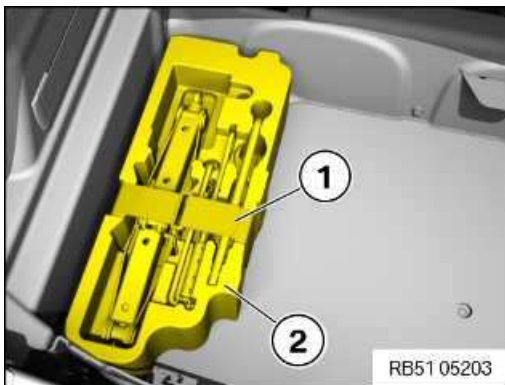


- Remove the oddments tray from the emergency wheel (1).



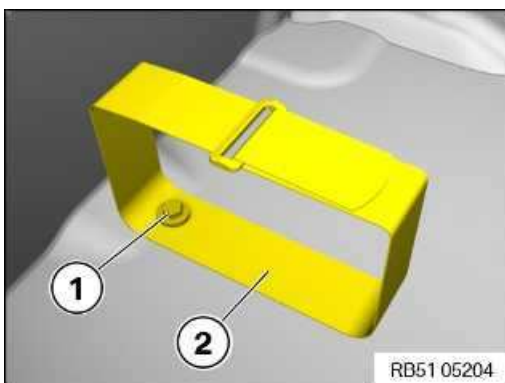
- Remove the emergency wheel (1).

5 – Remove the tool kit



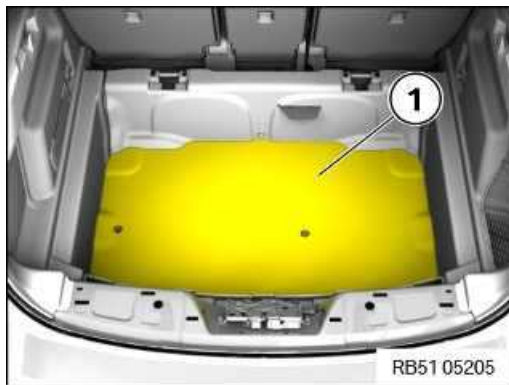
- Open the hook and loop tape (1).
- Remove the tool kit (2).

6 – Remove the hook and loop tape for the tool kit



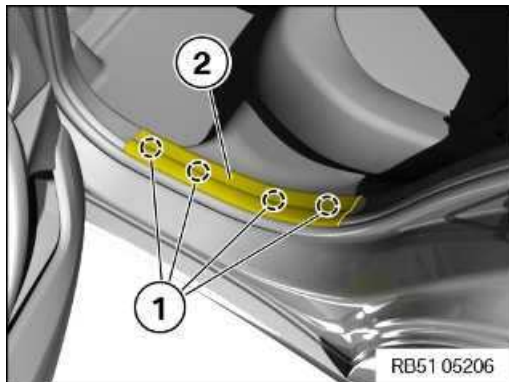
- Loosen screw (1).
- Remove the hook and loop tape (2).

7 – Removing the luggage compartment floor trim panel



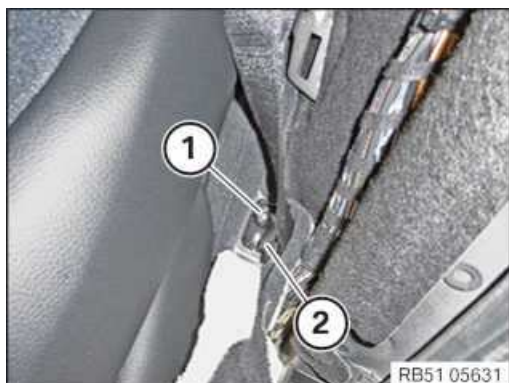
- Remove the luggage compartment floor trim panel (1) upwards.

8 – Remove rear entrance cover strip



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

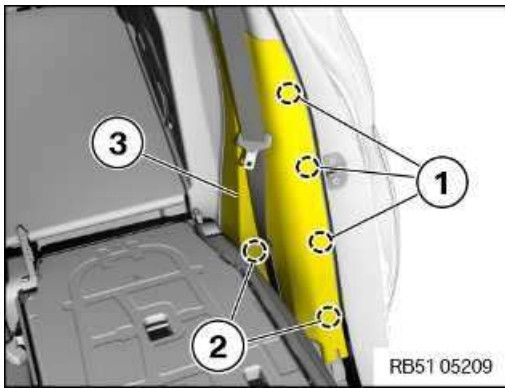
9 – Remove the bottom C-pillar trim panel



- 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.

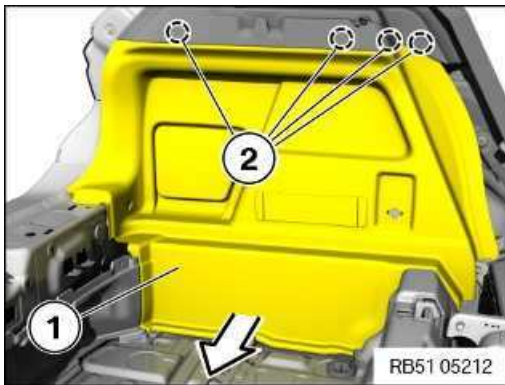


- Clip in the C-pillar trim panel (3) on the bottom with the clamps (1) and the clips (2).
- Detach end fitting and remove the bottom C-pillar trim panel (3).

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



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

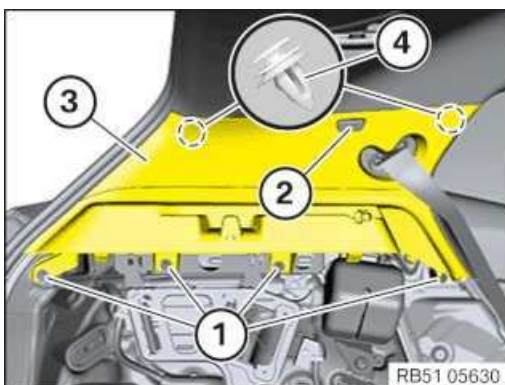


NOTICE

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

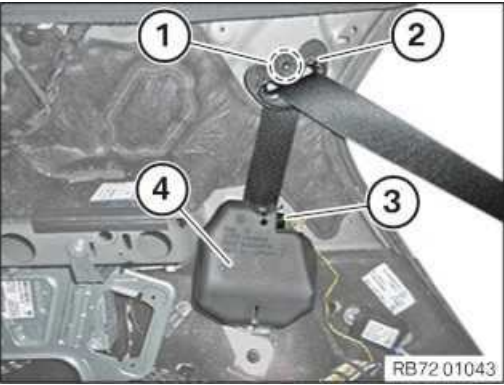
- Pull the luggage compartment wheel arch trim panel (1) on the bottom in the direction of the arrow and guide it out of the guides (2) and the C-pillar trim panel and remove.

11 – Remove the trim panel of the luggage compartment capping

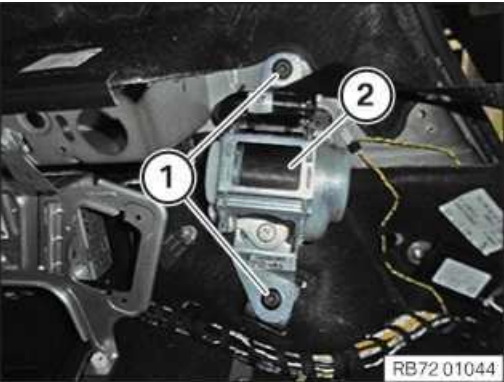


- Loosen screws (1).
- Remove the cover (2) with a suitable plastic wedge and unscrew the screw below it.
- Detach the trim panel of the luggage compartment capping (3) from the clips (4).
- Feed out the end fitting and remove the trim panel of the luggage compartment capping (3).

12 – Removing rear side seat belt

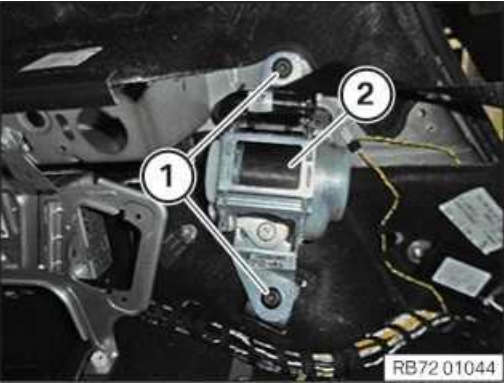


- Loosen screw (1).
- Remove the seat belt guide loop (2).
- Unlock plug connection (3) and disconnect.
- Remove cover (4).



- Loosen screws (1).
- Thread out the inertia reel (2).

13 – Install the rear side seat belt



- Insert and position the inertia reel (2).
- Tighten the screws (1).

Rear inertia reel to body

Oval-head screw		M10	42 Nm
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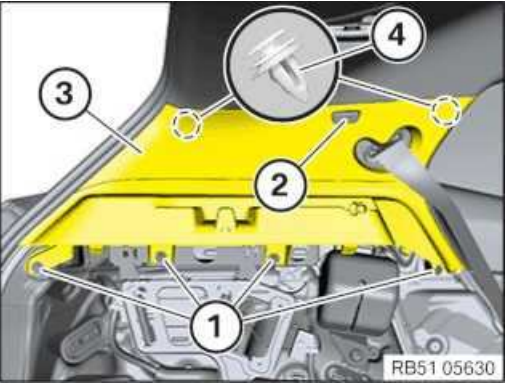


- Insert the cover (4).
- Connect plug connection (3) and lock.
- Mount seat belt guide loop (2).
- Tighten down screw (1).

Seat belt guide loop on C-pillar

Oval-head screw		M10	42 Nm
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14 – 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

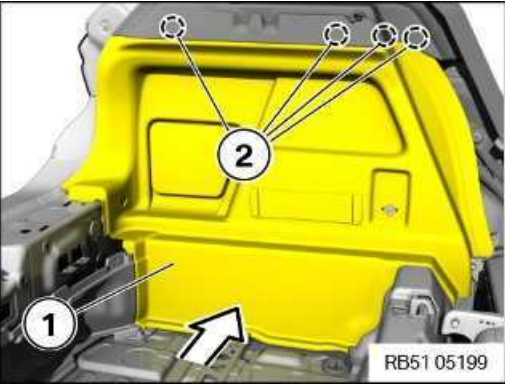
Self-tapping screw		Tightening torque	4 Nm
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- Tighten the screws (1).

Trim panel of luggage compartment capping to body

Hexagon screw		Tightening torque	1,8 Nm
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15 – Install luggage compartment wheel arch trim panel at left



NOTICE

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

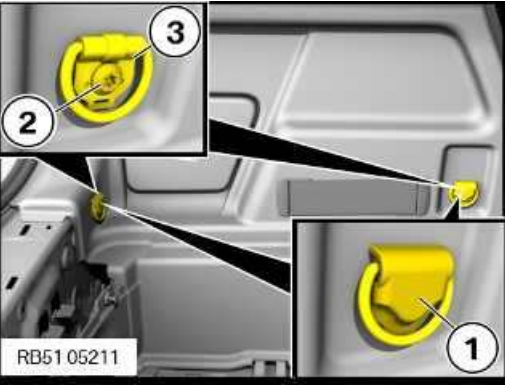
- Push the luggage compartment wheel arch trim panel (1) down in the direction of the arrow and feed it into the guides (2) and under the C-pillar trim bottom.

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

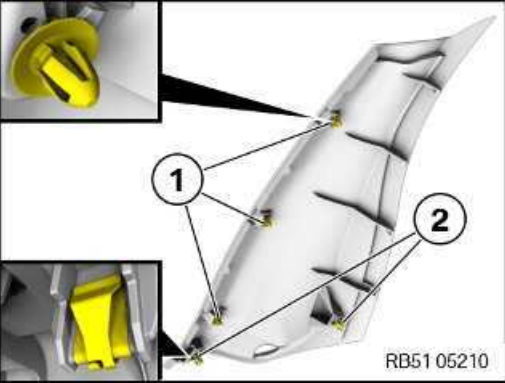
Lashing eye in luggage compartment

Bolt M8 x 22		Tightening torque	21 Nm
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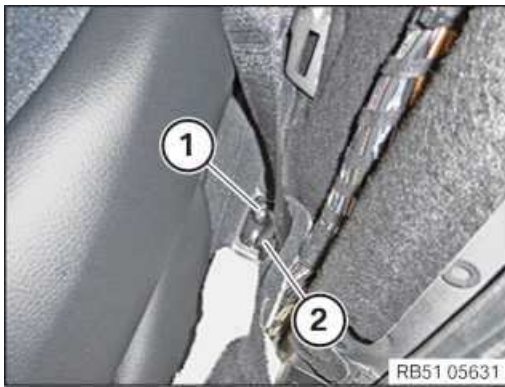
- Clip in the covers (1).



16 – 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.

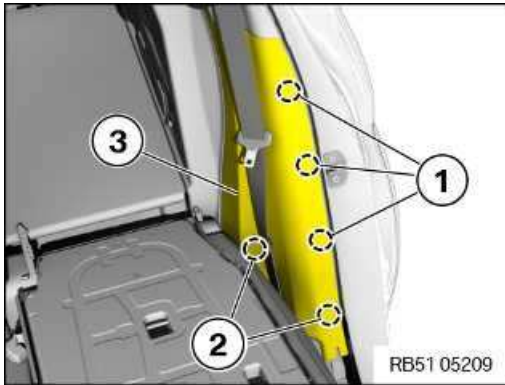


- Insert the end fitting (2) through the C-pillar trim panel.
- Mount the end fitting (2) and tighten the screw (1).

End fitting to body

Screw	Renew screw.	Tightening torque	42 Nm
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- Install the carpet correctly.

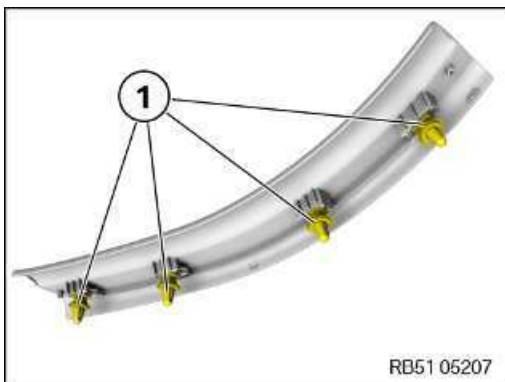


- Clip in the C-pillar trim panel on the bottom (3) with the clamps (2) and the clips (1).

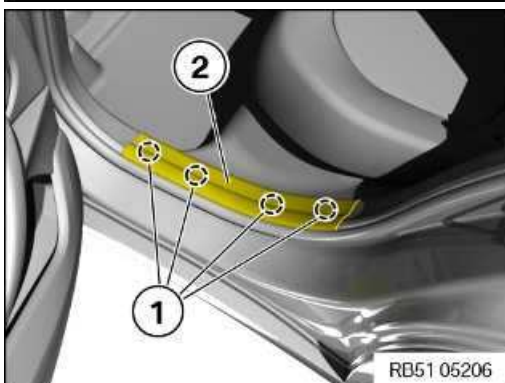


- Position the edge protection (1) correctly in the area of the bottom C-pillar trim.

17 – Installing the rear door sill cover strip

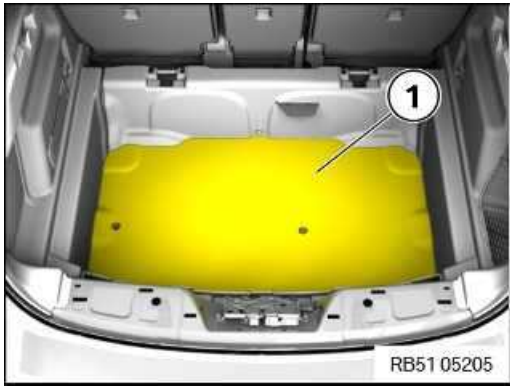


- Check the clips (1) for damage and renew where required.



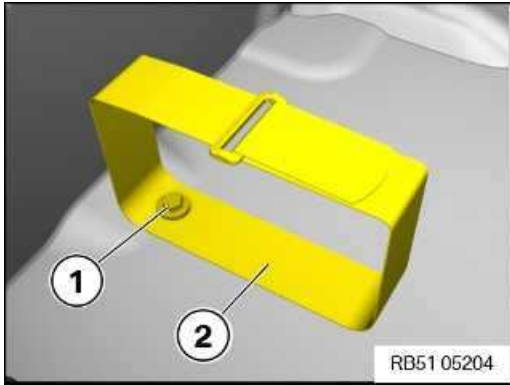
- Clip in the door sill cover strip (2) with the clips (1).

18 – Installing the luggage compartment floor trim panel



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

19 – Inserting the Velcro fastener for the toolkit

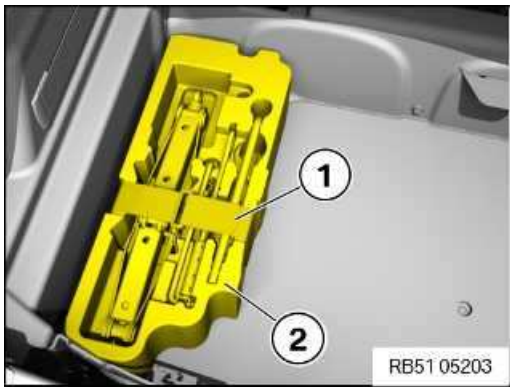


- Insert Velcro fastener (2).
- Tighten down screw (1).

Toolkit hook and loop tape to body

Bolt M6 x 20		Tightening torque	4 Nm
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20 – Install the tool kit

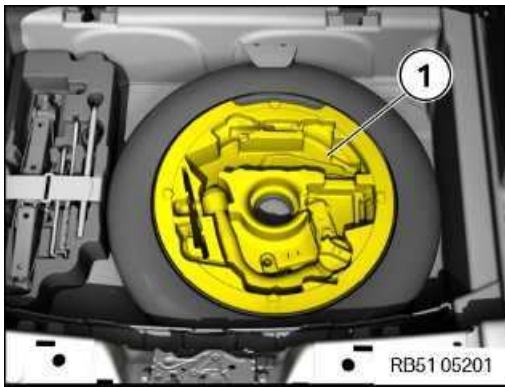


- Install the tool kit (2).
- Close the hook and loop tape (1).

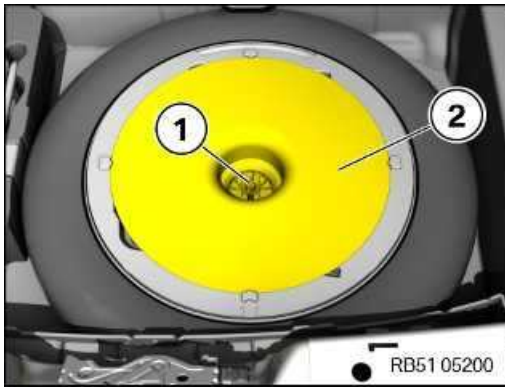
21 – Install the emergency wheel



- Insert compact spare wheel(1).

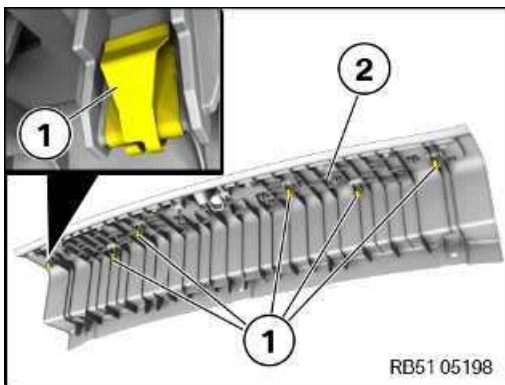


- Insert oddments tray into the compact spare wheel (1).

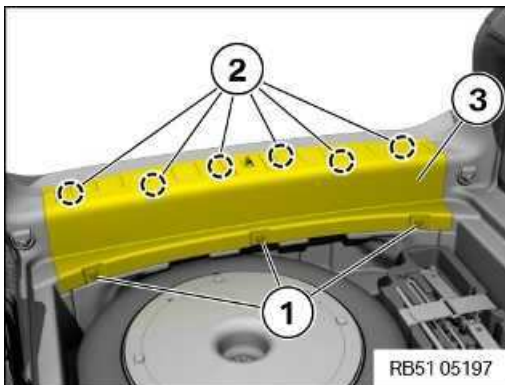


- Insert the lid (2).
- Hand-tighten the bolt (1).

22 – Installing loading edge trim

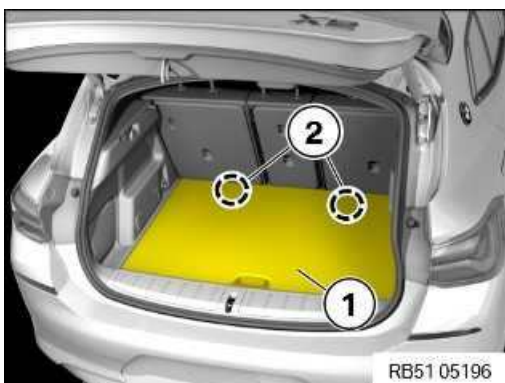


- Check the clamps (1) at the loading edge trim (2) for damage and renew if necessary.



- 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).

23 – Installing the luggage compartment removable panel



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

24 – Disconnecting all battery earth leads



- See additional information.

Additional Information

Overview of Tightening Torques

Rear inertia reel to body

Used in step [13](#)

Oval-head screw	M10	42 Nm
-----------------	-----	-------

Seat belt guide loop on C-pillar

Used in step [13](#)

Oval-head screw	M10	42 Nm
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Trim panel of luggage compartment capping

Used in step [14](#)

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

Trim panel of luggage compartment capping to body

Used in step [14](#)

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

Lashing eye in luggage compartment

Used in step [15](#)

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

End fitting to body

Used in step [16](#)

Screw	Renew screw.	Tightening torque	42 Nm
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Toolkit hook and loop tape to body

Used in step [19](#)

Bolt M6 x 20	Tightening torque	4 Nm
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Links

General repair instructions

Used in step

[72 Safety information and general information](#)

Repair instructions

Used in step

61 20 900 Disconnecting and connecting battery earth lead	1	24
61 20 900 Disconnecting and connecting battery earth lead	1	24
61 20 900 Disconnecting and connecting battery earth lead	1	24
61 20 900 Disconnecting and connecting battery earth lead	1	24
61 20 900 Disconnecting and connecting battery earth lead	1	24
61 20 900 Disconnecting and connecting battery earth lead	1	24
61 20 900 Disconnecting and connecting the battery earth lead (all battery earth leads)	1	24

61 20 900 Disconnecting and connecting the battery earth lead (all battery earth leads)	1 24
61 20 900 Disconnecting and connecting battery earth lead	1 24
61 20 900 Disconnecting and connecting the battery earth lead (all battery earth leads)	1 24
61 20 900 Disconnect and connect battery earth lead (Plug-in Hybrid Electric Vehicle)	1 24
61 20 900 Disconnecting and connecting battery earth lead	1 24
61 20 900 Disconnecting and connecting battery earth lead	1 24
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61 20 900 Disconnecting and connecting the battery earth lead (all battery earth leads)	1 24
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61 20 900 Disconnecting and connecting battery earth lead	1 24

72 Safety information and general information

Notes on safety

- > [Safety regulations](#) for handling airbag modules and pyrotechnic belt tensioners
- > [Notes on scrapping](#) vehicles with gas generators

Handling electrical system and electronics

- > [Unlocking/locking airbag plug connections](#)
- > [Repairing airbag lines](#)
- > [Handling optical fibres](#)

Check

- > [Check seat belt](#)
- > [Checklist for seat belt](#)

Airbag system

- > See diagnosis system for FUB and check
- > [Deactivating airbags](#)
- > [Procedure after airbag deployment](#) .

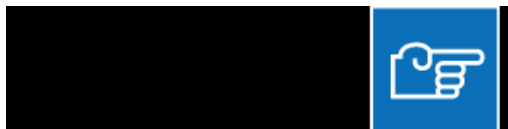
Active pedestrian protection

- > [Procedure after actuator triggering](#)

**Warning!**

The responsibility for deactivation/activation rests with the customer.

When a child restraint system is used on the front passenger seat, the front passenger airbags must be deactivated, otherwise there is an increased risk of injury for the child in the event of airbag deployment even with a child restraint system.



The front passenger airbag can only be deactivated in accordance with the following instructions if the vehicle is equipped with a suitable key switch!



The following airbags are deactivated simultaneously with the key switch (1):

- Front passenger airbag
- Side airbag (passenger's side)
- If necessary, knee airbag in US version (passenger's side)

The airbags can only be deactivated/reactivated while the vehicle is stationary and with the door open.

Attention!

The head airbag remains active.

**Deactivation**

- A Turn key switch with integrated key (1) from the remote key to the "OFF" position.

Deactivatable airbags on passenger's side out of operation.

Head airbag on passenger's side remains active.

All airbags on driver's side remain active.

Activate

- B Turn key switch with integrated key (1) from the remote key to the "ON" position.

All the airbags in the vehicle are activated and are triggered in appropriate situations.

**Indicator light**

When the ignition key is turned in the ignition lock, the function of the airbag system is checked and the indicator light lights up for several seconds.

- A The indicator light is continuously ON when the front passenger airbags are deactivated
- B The indicator light goes out after a few seconds when the front passenger airbags are activated

72 12 ... Notes on scrapping vehicles with gas generators (airbag system)

The gas generator is a pyrotechnic component and is for the most part permanently mounted on the following components:

- Airbag module
 - Driver's/ front passenger airbag
 - Side airbag
 - Head airbag
 - Knee airbag
- Electromotive automatic reel
- Belt end fitting tensioner
- Seat belt tensioner
- Safety battery terminal
- Active head restraint

In accordance with accident prevention regulations and specific national regulations, gas generators must be rendered unusable before they are scrapped. This is necessary because pyrotechnical objects can cause injury if improperly activated (e.g. scrapping with flame cutters).

In vehicles intended for scrapping it is paramount prior to draining and further stripping work to ensure that all gas generators **in the vehicle** have been activated. The fired gas generators can then be scrapped together with the vehicle.

Gas generators that have not fired constitute a hazard (also to the environment)!

Ignition failure:

If correct ignition is not possible, the relevant components must be removed and disposed of by special waste disposal companies!

Comply with [safety regulations](#) for handling airbag system components.

If an ignition has failed:

- Disconnect the igniter from the vehicle battery and
- Wait a few minutes before approaching the vehicle

The components of an airbag system must always be disposed of. Such components must not be sold on as used parts.

ignition:

Ignition of the gas generators may only be carried out by expert personnel and under the supervision of a responsible person. Other standard accident prevention regulations (safety goggles, ear defenders etc.) must also be observed.

The gas generators must be fired from the outside in this vehicle which has been earmarked for scrapping. In this process

- the doors must be closed
- the tailgate must be open
- the side windows must be open and
- Slide/tilt sunroof open

Use igniters with the appropriate cables to activate the gas generators.

Warning!

Once gas generators have been fired, observe a ventilation period of 10 minutes with the doors opened. Only then is it permitted to continue work inside the vehicle.

Wear protective goggles and protective gloves when handling a fired gas generator!

The burning of solid propellant will heat up the airbag unit - danger of burns!

Wash skin with water after contact with fired gas generators!

72 12 ... Procedure after airbag deployment as result of an accident

Replace all components that were affected by the accident and check all others!

Check and/or replace following components after airbag deployment:

- Components
 - Safety battery terminal
 - Sensor B-pillar (left/right)
 - Sensor front door (left/right)
 - Sensor seat, Driver-/passenger's side
 - Airbag control unit, vehicle interior
 - Pedestrian protection sensor
 - Front sensor (engine compartment)
- Procedure
 - Inspect visually for mechanical damage (housing, plug connections). Replace damaged components
 - Connect diagnosis system
 - Read fault memory
 - Disconnect the vehicle battery and adhere to the waiting period (at least 30 seconds)
 - Inspect visually for mechanical damage
 - Rectify faults
 - Reconnect the vehicle battery and adhere to the waiting period (at least 10 seconds)
 - Delete fault memory
 - Switch off ignition and wait at least 2 minutes (no consumers may be switched on during this period such as interior light, radio, etc.)
 - Switch the ignition on (wait for at least 10 seconds)
 - Delete fault memory
 - If you cannot delete the fault memory: Replace the component that is causing the fault

Replace the airbag control unit in the following cases only:

- In the case of visible external damage
- In the case of a corresponding fault memory entry (airbag indicator light is illuminated)

Cables and connectors

- Components and procedure
 - Check cables and connectors for damage, replace if necessary.
(e. g. corrosion, correct engagement, bent pin)

Seat belt system

- Components
 - Automatic reel
 - Seat belt tensioner
 - Seat belt height adjustment
 - End fitting pretensioner
 - Seat belt buckle
- Procedure
 - Check components, replace if necessary
 - Additional door lock: Check for foreign body, remove it if necessary

Seats

- Components
 - Seat
 - Airbag module
 - Active head restraint
- Procedure
 - Check seats (functional check of seat mechanism), replace if necessary

- Check seat connection
- Replace gas generator of active head restraint

If the severity of the crash has not caused any other damage to the seat, only the triggered gas generator needs to be replaced

External feature: The triggered head restraint is folded forwards and engaged

The repair work can be carried out in the vehicle with the rear panel removed. The entire system can be pushed back into its original position and the new gas generator installed

The gas generator can be replaced up to 5 times

- Replace airbag module and seat cover with upholstery
- **I01 only:** If one of the following criteria is met, the backrest frame must be replaced
(Part number of backrest frame: 52 10 7 388 646)
 - Activated belt tensioner
 - Activated end fitting pretensioner
 - Outer cover unclipped by a side collision
 - Outer cover ripped off by a side collision
 - Faulty clip connection on outer cover caused by a side collision

Driver's airbag

- Components
 - Airbag module
 - Steering wheel
 - Steering column (if damaged)
- Procedure
 - Check components, replace if necessary
 - Replace steering wheel

Front passenger airbag

- Components
 - Airbag module
 - Dashboard trim panel (must be replaced!)
 - Supporting tube (if damaged)
- Procedure
 - Check components, replace if necessary

Side airbag, front/rear

- Components
 - Airbag module
 - Door trim panel
 - Door in white
 - Seat
- Procedure
 - Check components; replace if necessary

Head airbag

- Components
 - Airbag module
 - A-pillar trim panel
 - Roofliner
 - B-pillar trim panel (if damaged)
 - C-pillar trim panel (if damaged)
 - Connection/mount (on side frame)
- Procedure
 - Check components, replace if necessary

Knee airbag

- Components
 - Trim panel (driver's side)
 - Lower section of glove box
 - Knee protection(Driver- and passenger's side)
- Procedure
 - Check components, replace if necessary

Knee protection

- Components
 - Trim panel (driver's side)
 - Glove box incl. knee protection (passenger's side)
- Procedure
 - Check components for damage, replace if necessary
 - Check retaining elements

41 00 ... Procedure for vehicles with active pedestrian protection after an accident

The active pedestrian protection system consists of the following components:

- *Satellites (control unit + sensor)*
 - Sensors, inside, bumper panel, left/centre/right
 - ACSM control unit (Crash Safety Module)
- *Cables and connectors*
- *Engine compartment lid hinges*
 - Actuator
 - Engine compartment lid hinge

In case of a frontal crash or side collision in the area of the bonnet and/or the A-pillars, check the following components:

Satellites (control unit + sensor)

- Procedure
 - Read fault memory.
 - Disconnect the vehicle battery and observe the waiting period.
 - Rectify fault.
 - Reconnect the vehicle battery and observe the waiting period.
 - Delete the fault memory.
 - Switch off ignition and wait at least 2 minutes (no consumers, such as e.g. interior light, radio, etc., may be switched on during this period).
 - Switch the ignition on.
 - Read fault memory and rectify faults if necessary.

Cables and connectors

- Procedure
 - Check cables and connectors for damage, replace if necessary.

Procedure with activation of active pedestrian protection:

Engine compartment lid hinges

- Replace [actuators](#).
- [Check both bonnet hinges](#). Replace damaged hinges.
If necessary, repair hinges with [repair kit](#).
If no repair kit is available, the hinge must be replaced.

Model	Repair kit available
F15, F16	No
F20, F21, F22, F23, F32, F33, F34, F36, F80, F82, F83, F87	Yes
F55, F56, F57, F60	No
F45, F46, F48, F49, F39	No

Procedure without activation of active pedestrian protection:

Engine compartment lid hinges

- Check [both bonnet hinges](#) and replace if necessary.
- If the hinge is damaged, the [actuator](#) must also be replaced.

72 12 050 Remove and install/replace the side airbag for the front left or right seat (basic and sports seat)

Prerequisite

- Move front seat maximum distance forward and up.



NOTICE

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

PRELIMINARY WORK

1 – Disconnecting all battery earth leads



- See additional information.

2 – Remove rear panel on front seat backrest



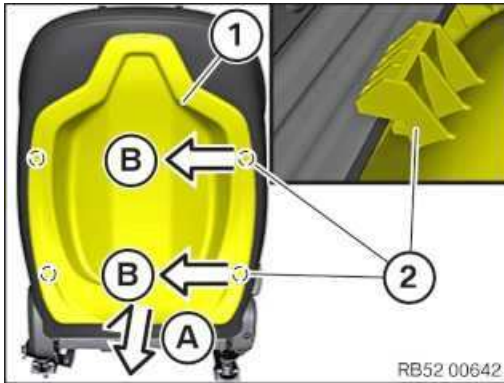
- For equipment specification with folding table only:
- Press the lock together and completely move the folding table (1) upwards.
- Detach the folding table (1) from the rail.



- Release the rear panel (1) toward the rear from the clips (2).



- Reach behind the rear panel (1) and push the latch mechanisms (2) upwards.
- Hold the rear panel (1) toward the rear under tension.



- Pull the rear panel (1) in the lower area slightly to the rear/down, direction of arrow (A).
- Press the rear panel (1) in direction of arrow (B) and release the latch mechanisms (2).

MAIN WORK

3 – Remove side airbag in front seat



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.

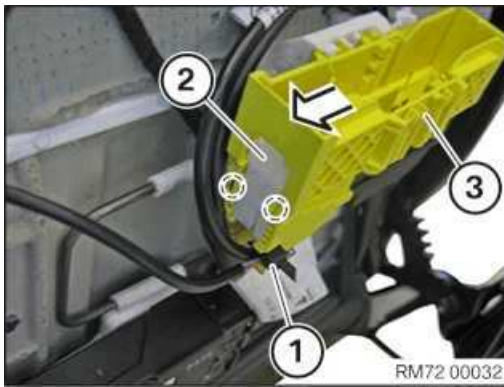


WARNING

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



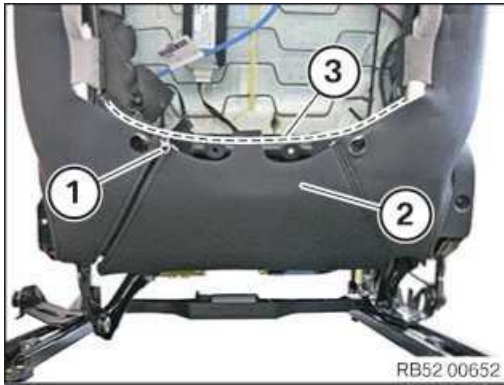
- If necessary detach the cable strap (1).



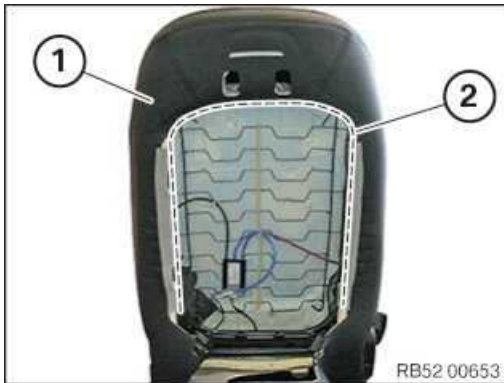
TECHNICAL INFORMATION

Different variants may be installed depending on the vehicle equipment.

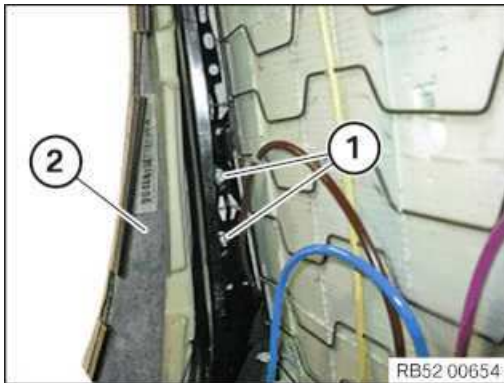
- Unlock the latch mechanisms and slide the connectors (2) in direction of arrow out of the connector housing (3).



- Open the zip fastener (1).
- Detach the seat cover (2) from the backrest frame in area (3).



- Detach the seat cover (1) from the backrest frame in area (2).



- Fold the backrest cover (2) to the side.
- Loosen nuts (1).



- Slide the side airbag (1) down and out of the cover pocket (2).

4 – Installing side airbag in the front seat



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.



WARNING

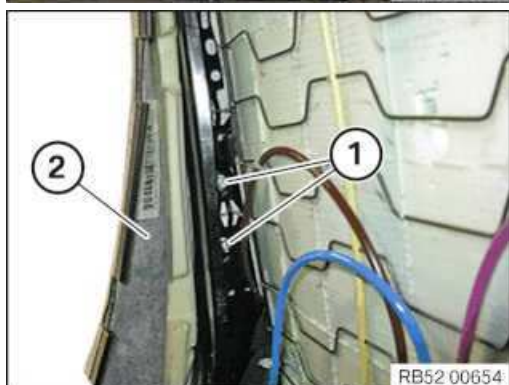
Airbag unit.

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



- Feed the side airbag (1) upwards into the lining pocket (2).



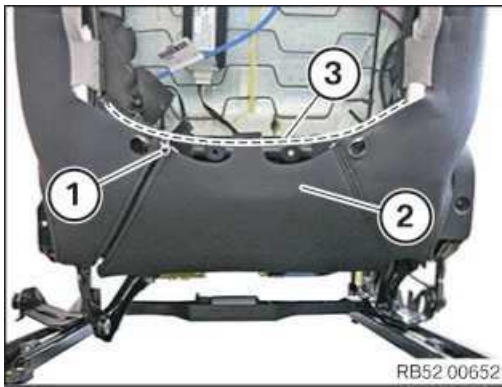
- Fold the backrest cover (2) to the side.
 - Replace nuts.
- Parts:** Nuts
- Tighten nuts (1).

Side airbag to seat frame

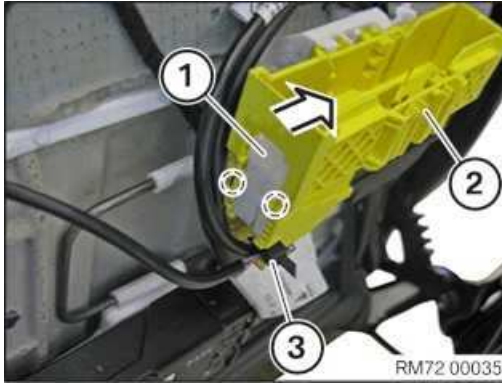
Hexagon nut	Renew nut.	6,5 Nm
-------------	------------	--------



- Attach the seat cover (1) in this area (2) to the backrest frame.



- Attach the seat cover (2) in this area (3) to the backrest frame.
- Close the zip fastener (1).



i

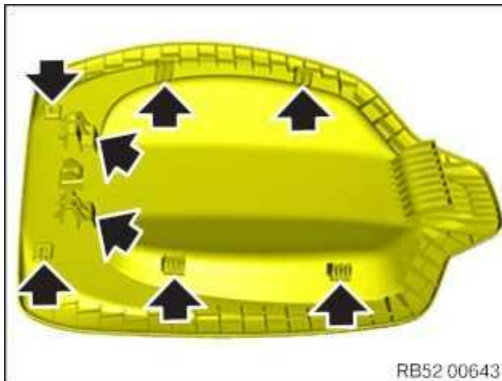
TECHNICAL INFORMATION

Different variants may be installed depending on the vehicle equipment.

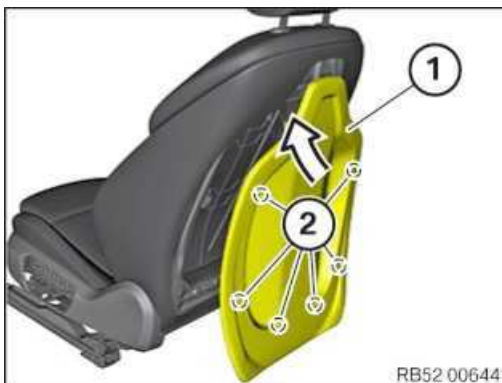
- Insert connector (1) into the connector housing (2).
- Make sure the connector (1) correctly engages in the connector housing (2).
- Fasten the cable with the cable strap (3) on the connector housing (2).

POSTPROCESSES

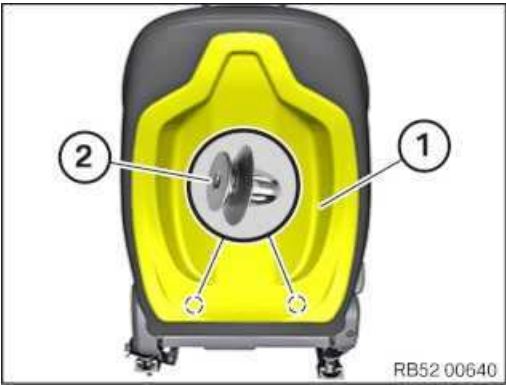
5 – Install the rear panel on the front seat backrest



- Check the latch mechanisms and clips for damage, if necessary renew the rear panel.



- Slide the rear panel into the seat and clip it in at the latch mechanisms (2).



- Clip in the rear panel (1) at the clips (2).



- **For equipment specification with folding table only:**
- Press together the lock and insert the folding table (1) into the rail at the very top.

6 – Disconnecting all battery earth leads



- See additional information.

Additional Information

Overview of Tightening Torques

Side airbag to seat frame			Used in step
Hexagon nut		Renew nut.	4
			6,5 Nm

Links

General repair instructions		Used in step
72 00 ... Safety regulations for handling components with gas generators		3 4
Repair instructions		Used in step
61 20 900 Disconnecting and connecting battery earth lead		1 6
61 20 900 Disconnecting and connecting battery earth lead		1 6
61 20 900 Disconnecting and connecting battery earth lead		1 6
61 20 900 Disconnecting and connecting battery earth lead		1 6
61 20 900 Disconnecting and connecting battery earth lead		1 6

61 20 900 Disconnecting and connecting battery earth lead	1 6
61 20 900 Disconnecting and connecting the battery earth lead (all battery earth leads)	1 6
61 20 900 Disconnecting and connecting the battery earth lead (all battery earth leads)	1 6
61 20 900 Disconnecting and connecting battery earth lead	1 6
61 20 900 Disconnecting and connecting the battery earth lead (all battery earth leads)	1 6
61 20 900 Disconnect and connect battery earth lead (Plug-in Hybrid Electric Vehicle)	1 6
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61 20 900 Disconnecting and connecting battery earth lead	1 6

72 12 000 Removing and installing or replacing airbag module on passenger's side



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



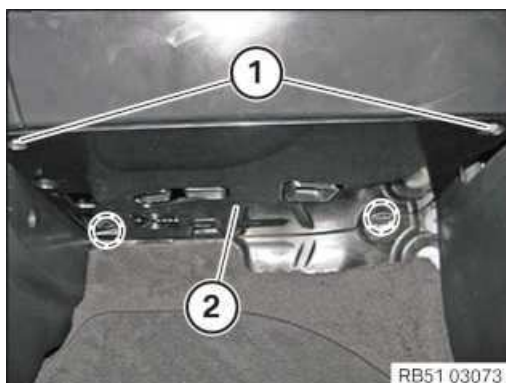
- See additional information.

2 – Adjust the steering column position



- Adjust the length of the steering column to the maximum length in the direction of arrow (1).
- Move the steering column to the lowest steering column position in the direction of arrow (2).

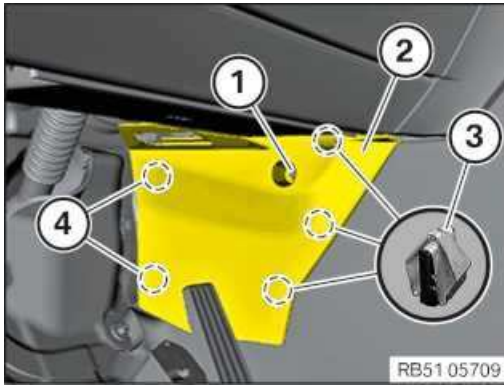
3 – Removing the instrument panel trim at bottom right



- Loosen nuts (1).
- Lower the instrument panel trim slightly at the bottom right (2) and disconnect the plug connection behind it.
- Guide the instrument panel trim at the bottom right (2) from the front guides and remove it.

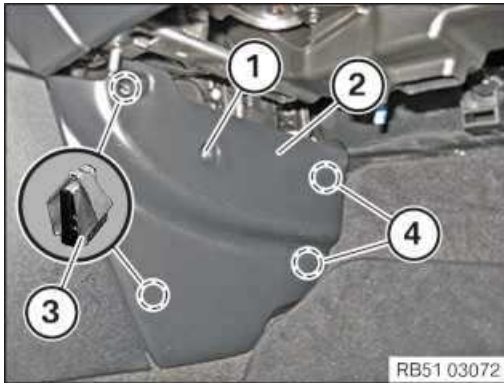
4 – Removing the side trim panel for the left and right centre console

- Removing side trim panel for the left centre console



- Loosen screw (1).
- Release side trim panel (2) for the centre console from retaining clips (3).
- Remove side trim panel (2) for the centre console from guides (4) and remove it.

► Removing side trim panel for the centre console on the right side



- Loosen screw (1).
- Release the side trim panel for centre console (2) from retaining clips (3).
- Remove the side trim panel for centre console (2) from guides (4) and remove it.

5 – Remove gearshift lever cover



- Use wedges (1) to unclip the gaiter and pull it off upward.



- Remove the gearshift lever knob and the gaiter by means of a powerful jolt vertically upwards.
In doing so, the tie rod must not be bent or damaged.
- Ensure that the gearshift lever knob is not twisted when removing, otherwise the anti-twist lock in the gearshift lever knob will be sheared off.

6 – Remove the decorative trim from the centre console



RISK OF DAMAGE

Scratches.

Tools and sharp-edged components can cause scratches.

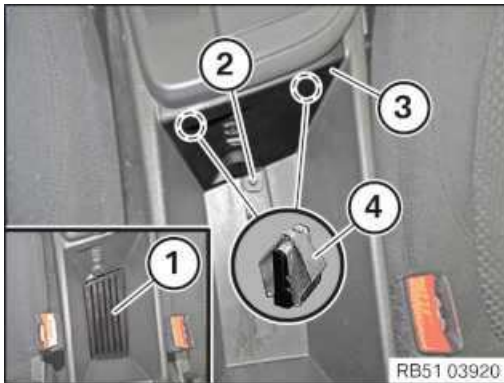
- Protect working area.
- Handle tools and components carefully.



- Lever out and remove cover (1) with the special tool **0 496 571 (00 9 327)**.
- Loosen screws (2).



- Lever out and remove cover (1) with the special tool **0 496 571 (00 9 327)**.
- Loosen screws (2).

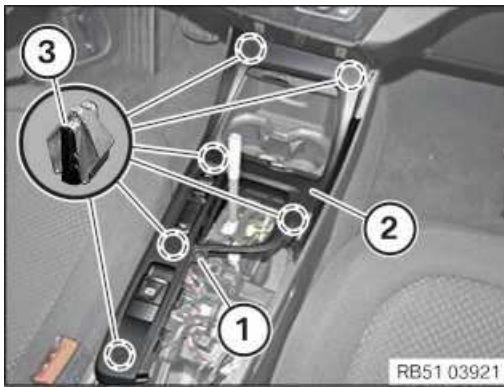


- Remove insert (1) with the special tool **0 496 571 (00 9 327)**.
- Loosen screw (2).
- Lever out trim (3) from clamps (4) towards the rear with the special tool **0 496 571 (00 9 327)**.
- Unfasten plug connection.
- Remove the trim (3).

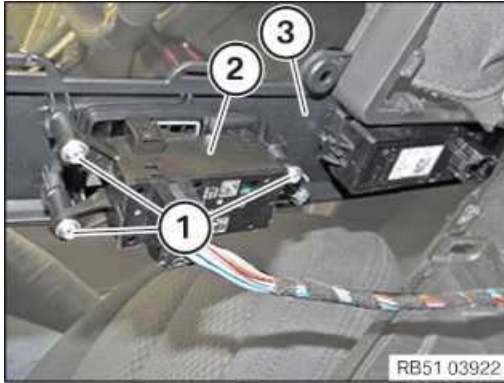


- Loosen screw (1).
- Remove decorative trim (2) and disconnect all the plug connections.
- Remove decorative trim (2).

7 – Remove the centre console trim



- Loosen screw (1).
- Release centre console trim (2) from clamps (3) with the special tool **0 496 569 (00 9 325)**.
- Lift centre console trim (2).



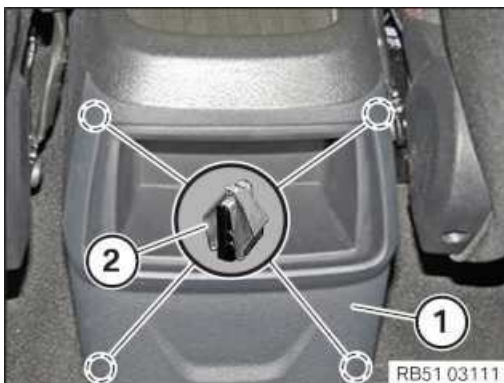
- Loosen screws (1).
- Remove parking brake button (2) from centre console trim (3) and place it down.
The plug connection must not be disconnected.
- Disconnect the remaining plug connections and remove centre console trim (3).

8 – Removing the front storage compartment



- Lever storage compartment (1) at top from the clamps (2).
- Fold storage compartment (1) so far back that it can be lifted from the guides (3).
- Disconnect plug connections and remove the storage compartment (1).

9 – Removing the rear centre console trim



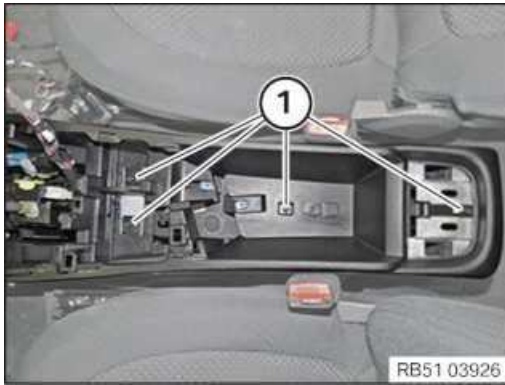
- Lever out and remove centre console trim (1) with the special tool **0 496 569 (00 9 325)** from the clamps (2).

10 – Removing centre console fully with centre armrest

- Removing the centre armrest



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



- Loosen screws (1).



- Loosen screws (1).
- Lift the rear centre console (2) and in this process, disconnect all plug connections.
- Guide out the wiring harness and remove centre console (2) from the vehicle.

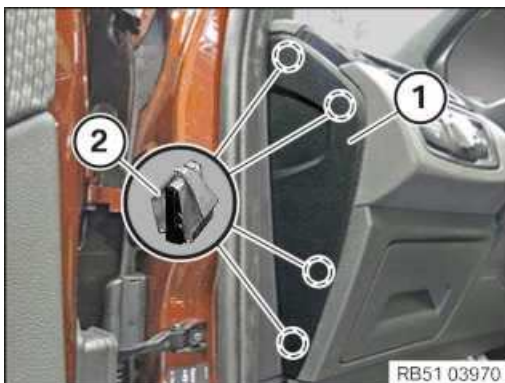
11 – Remove the side panel on the left and right of the instrument panel



NOTICE

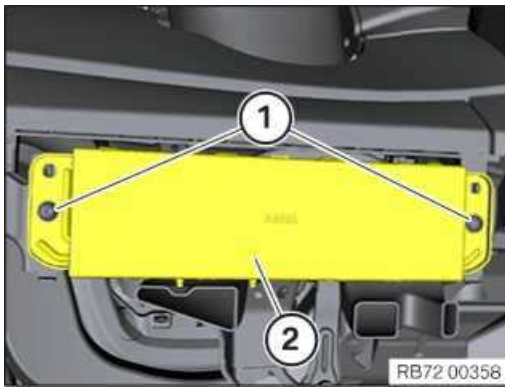
Description is for left component only. Procedure on the right side is identical.

► Remove side panel on the instrument panel



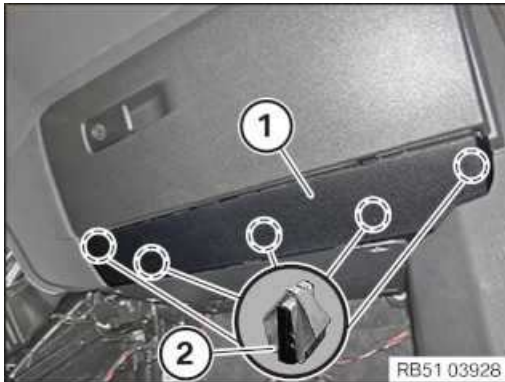
- Lift out the side panel (1) with the special tool **0 496 569 (00 9 325)** from the clamps (2) and slide it out to the rear at an angle.

12 – Removing knee airbag

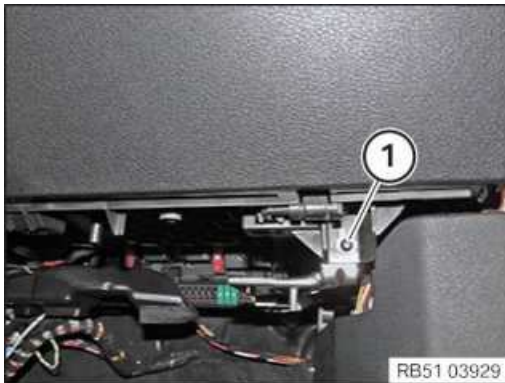


- Unlock plug connection on knee airbag (2) and disconnect.
- Loosen screws (1).
- Remove knee airbag (2).

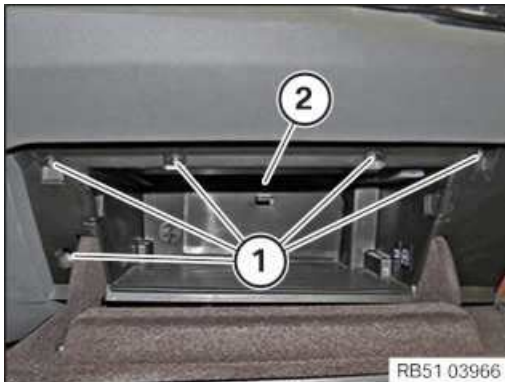
13 – Remove right glove box



- Release the trim (1) with the special tool **0 496 569 (00 9 325)** toward the bottom from the clamps (2) and remove.



- Loosen screw (1).

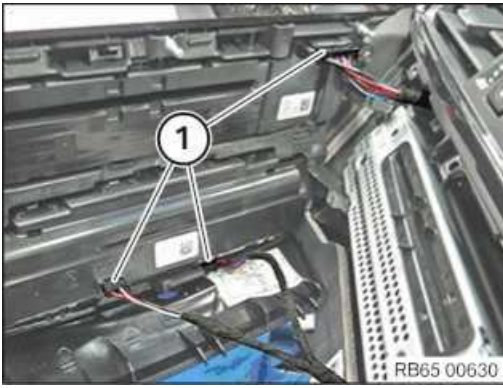


- Loosen screws (1).
- Remove glove box (2) to the inside and disconnect associated plug connections.

14 – Removing the audio operating unit and the air conditioning control panel



- Unclip the trim (1) using special tool **2 298 505**.



- Unlock plug connection (1) and disconnect.
- Remove the audio operating unit and the air conditioning control panel.

15 – Remove Head Unit High (HU-H)



RISK OF DAMAGE



Electrostatic discharge.

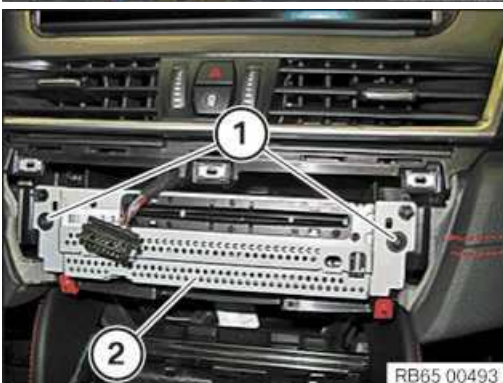
Damage to or destruction of electrical components.

- Leave electrical components in original packaging until just before they are installed. Use the original packaging only for any return shipments. Always package removed components straight away.
- Read and comply with user information on using the associated special tool 12 7 060.
- Only touch the housings of electrical components. Do not touch pins or multi-pin connectors directly.
- Wear electrically conductive clothing and antistatic shoes (with ESD symbol).
- For additional information see: 61 35 Information on electrostatic discharge (ESD) protection.



- Remove the wiring harness (1).

In the factory, the wiring harness (1) is routed such that not enough excess length exists to remove the head unit.

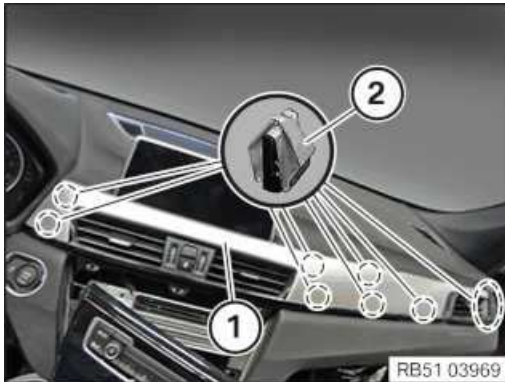


- Loosen screws (1).
- Pull out the head unit (2) a bit.



- Unlock and disconnect all connectors in the marked area.
- Remove head unit (1).

16 – Remove the finisher on the right instrument panel



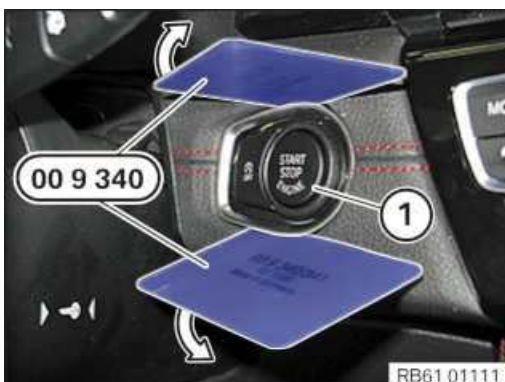
- Carefully release the decorative strip (1) with the special tool **0 496 569 (00 9 325)** from the clamps (2) starting from the side.
- Lift up the decorative strip (1) and disconnect the plug connections behind it.
- Remove the decorative strip (1).

17 – Remove decorative strip from instrument panel

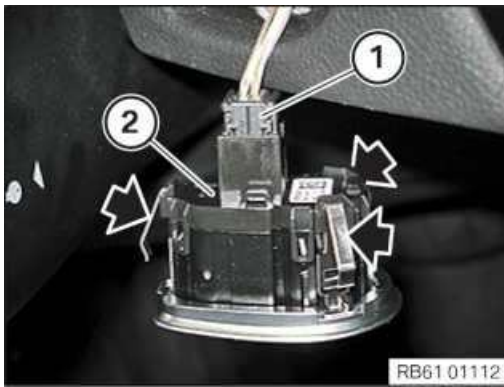


- Release the decorative strip (1) using the special tool **0 496 569 (00 9 325)** from the clamps (2) and remove.

18 – Removing the START-STOP button



- Remove START-STOP button (1) using the special tool **0 493 687 (00 9 340)**



- Disconnect the connector (1) and remove the START-STOP button (2).

19 – Removing the light operating unit



- Unclip the light operating unit (1) in the marked area.
- Unlock and disconnect associated connector.

20 – 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

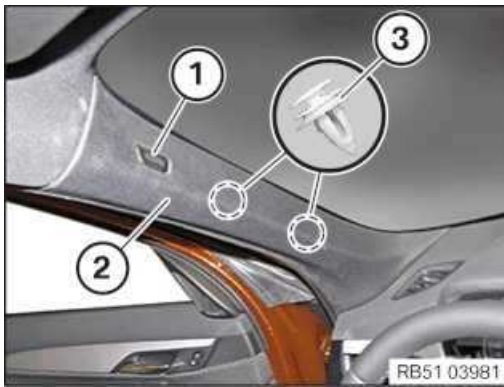


WARNING

Pyrotechnic components.

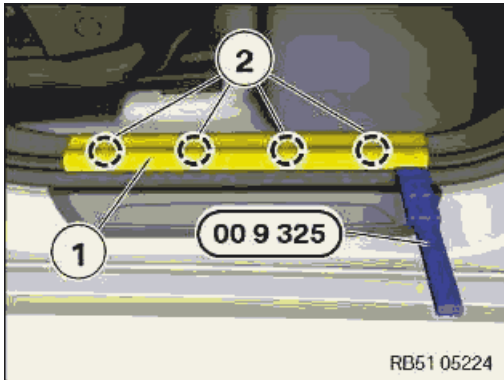
Danger! Life-threatening injuries!

- 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.

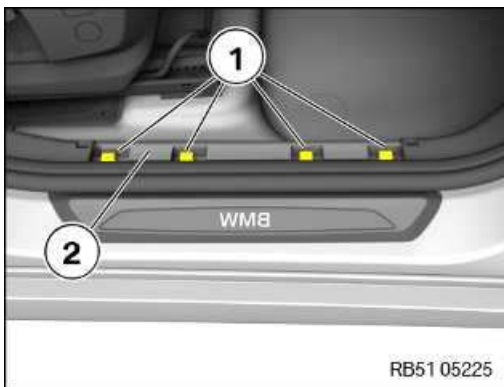


- Unclip cover (1) and unscrew the screw below it.
- Release the A-pillar trim panel (2) from the clips (3) and guide out upwards.

21 – Remove front entrance cover strip

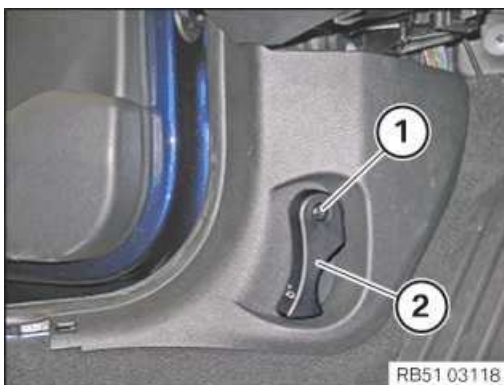


- Unclip the door sill cover strip (1) at the clips **0 496 569 (00 9 325)** using special tool (2) starting from the rear.

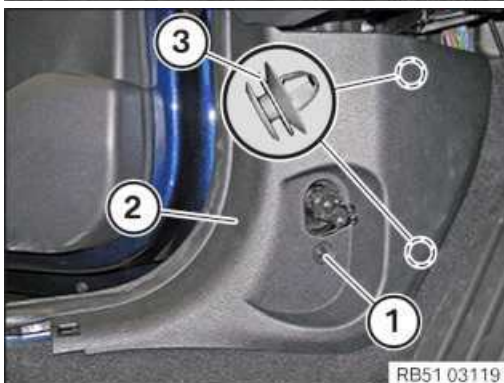


- If applicable, loosen clips (1) from floor panel (2) and mount on the door sill cover strip.

22 – Removing the side trim panel in the footwell at the A-pillar



- Loosen screw (1).
- Remove bonnet release lever (2).



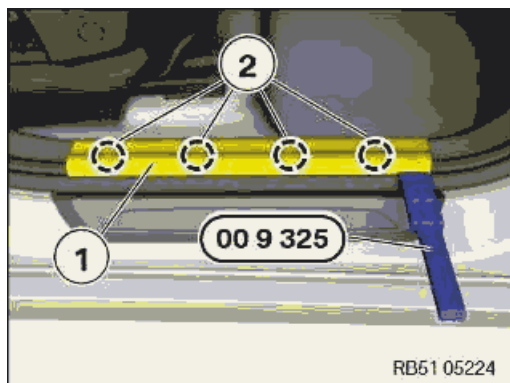
- Loosen screw (1).
- Unclip side trim panel (2) from the clips (3) and remove.

23 – Remove front right door sill cover strip

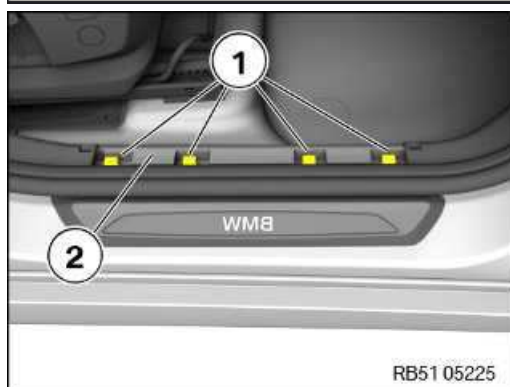


NOTICE

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

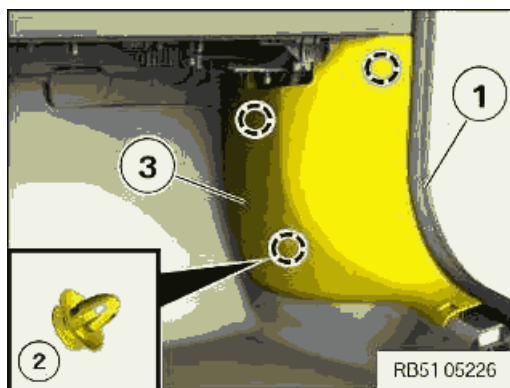


- Unclip the door sill cover strip (1) at the clips **0 496 569 (00 9 325)** using special tool (2) starting from the rear.



- If applicable, release clips (1) from floor panel (2) and mount on the door sill cover strip.

24 – Removing the side trim panel in the footwell at the right-hand A-pillar



- Guide side trim panel (3) under the sealing lip out of the edge protection (1).
- Unclip and remove the side trim panel (3) at the clips (2).

25 – Removing airbag unit of the steering wheel/sports steering wheel



WARNING

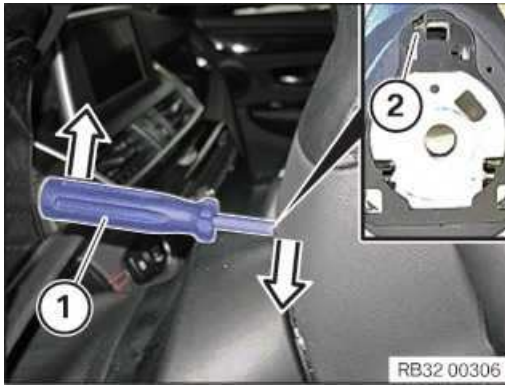
Airbag unit.

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



- Turn the steering wheel (1) through 180° from the "straight-ahead driving position".

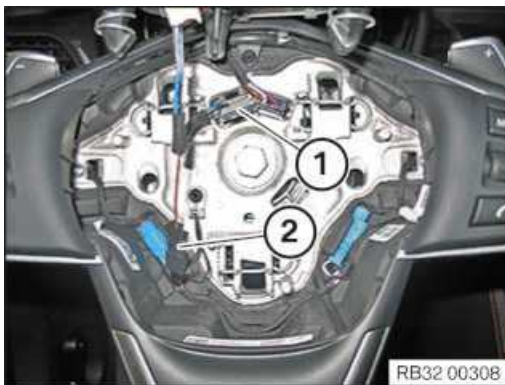


- Insert the slotted screwdriver (1) into the elongated hole on the rear side on the steering wheel.
- Push the slotted screwdriver (1) up and thereby push the retaining spring down (2).

The airbag unit is unlocked.



- (1) Push unlocked airbag unit up.
- (2) At the same time, pull off the top airbag unit in the opposite direction of travel.



- Unlock and disconnect the plug connections (1) and (2).
- Remove airbag unit.

26 – Removing steering wheel/sports steering wheel



- Move the steering wheel/sports steering wheels to the straight-ahead position.
- **Unlock plug connection and disconnect.**
- Release the screw (1) and remove the steering wheel/sports steering wheel.

27 – Removing steering column shroud upper section



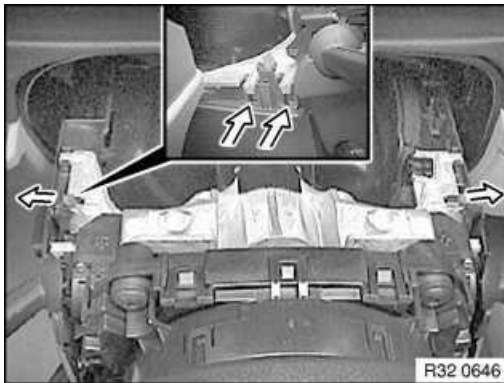
NOTICE

Perform the operations on the left and right side.

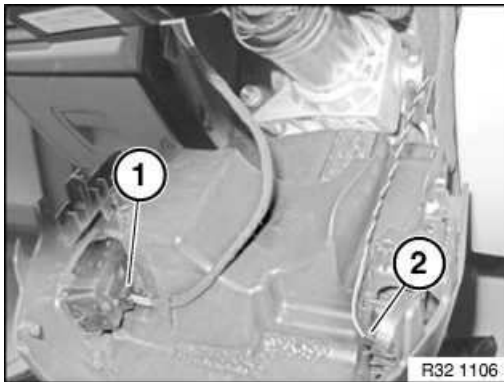
- Unclip the steering column shroud upper section (1) with the special tool **2 298 504** in area (2).
- Fold the steering column shroud upper section (1) up.
- Release the gap cover of the steering column (1) from the brackets (arrows) of the steering column shroud upper section.
- Remove steering column shroud upper section.



28 – Removing steering column shroud lower section

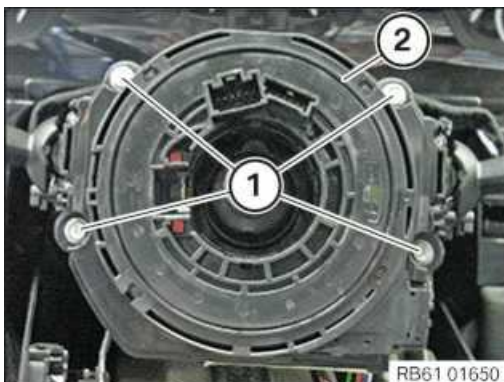


- Press the retaining lugs (arrows) a little outwards and unclip the steering column shroud lower section in a downward direction.

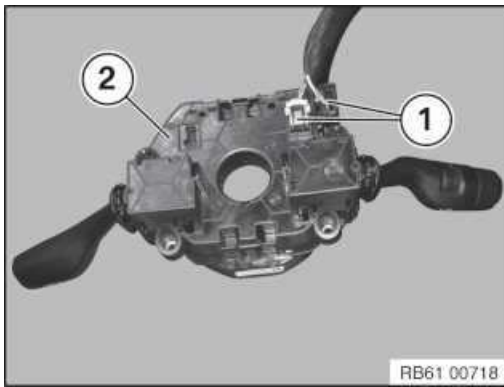


- Tilt steering column shroud lower section in downward direction.
- Unlock and disconnect the plug connections (1) and (2).
- Remove steering column shroud lower section.

29 – Removing the steering column switch cluster (SZL)



- Loosen screws (1).
- Remove the steering column switch cluster (SZL) (2).



- Unlock and disconnect the connector (1) on the steering column switch cluster (SZL) (2).

30 – Removing the instrument cluster (KOMBI)



RISK OF DAMAGE

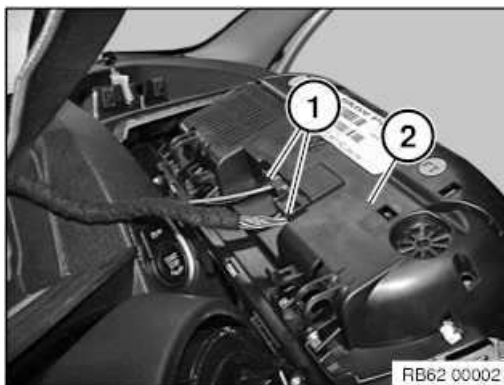
Scratches.

Tools and sharp-edged components can cause scratches.

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

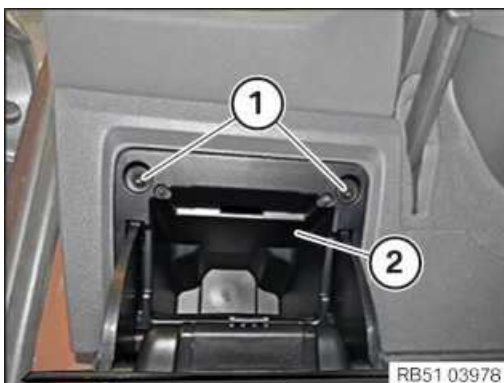


- Loosen both screws (1).
- Thread out instrument cluster (KOMBI) in direction of arrow.



- Disconnect all plug connections (1).
- Removing the instrument cluster (KOMBI) (2).

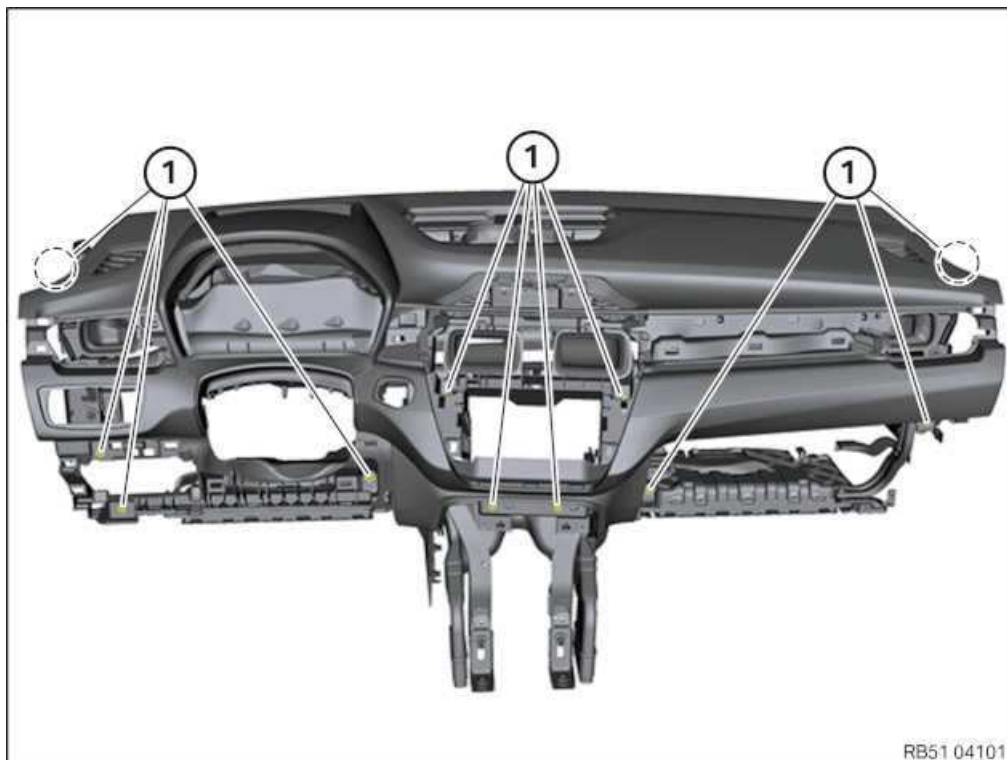
31 – Removing the left fold-down compartment



- Loosen screws (1).
- Guide out and remove the fold-down compartment (2) downward from the instrument panel.

32 – Remove instrument panel trim

Instrument panel



TECHNICAL INFORMATION

Notes on unlocking/locking airbag plug connections form the basis for these repair instructions and must be observed without fail.

For additional information see: 72 00 ... Notes on unlocking/locking airbag plug connections

- Loosen screws (1).
- Unlock and disconnect the plug connection of the front passenger airbag.
- Guide out the instrument panel trim with the help of an auxiliary person and unlock and disconnect all the plug connections.
- Release the wiring harness from the instrument panel trim.
- Guide out the instrument panel trim through the door aperture from the vehicle.

MAIN WORK

33 – Remove front passenger airbag



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.



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



TECHNICAL INFORMATION

Notes on unlocking/locking airbag plug connections form the basis for these repair instructions and must be observed without fail.

For additional information see: 72 00 ... Notes on unlocking/locking airbag plug connections



- Release all screws (arrows) on the front passenger airbag (1).
- Guide the front passenger airbag (1) out and remove.

34 – Installing front passenger airbag



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.

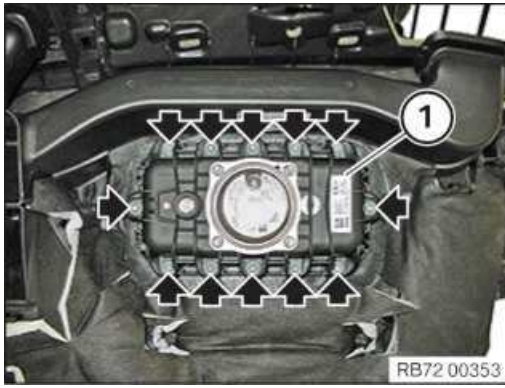


WARNING

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



- Position front passenger airbag (1).



TECHNICAL INFORMATION

Do not exceed the specified tightening torque.

- Tighten all screws (arrows) on the front passenger airbag (1).
- Make sure that the front passenger airbag is secured with the correct number of screws.

At the factory the front passenger airbag is secured using **6 or 11** screws.

If the component has been secured at the factory with **6** screws, the front passenger airbag must be secured with **12** screws upon installation.

If the component has been secured at the factory with **11** screws, the front passenger airbag must be secured with **11** screws upon installation.

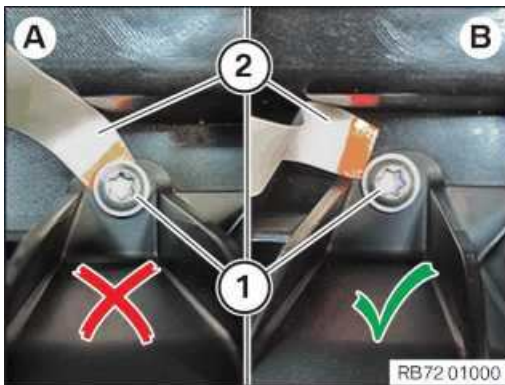
If the component has been secured with **12** screws (e.g. following repair), the front passenger airbag must also be secured with **12** screws during installation.

Check

- Use a paper strip (2) to check whether the screw heads (1) of all screws are fully in contact with the installation surface.

Even though the screws had been tightened to the correct tightening torque using a torque wrench it may potentially be the case that the screw head (1) is not fully in contact with the contact surface.

Retorquing using the torque wrench is not permitted!



desired state

- Screw connection correct (B): Paper strip (2) does not fit underneath the screw head (1).

The screw is correctly in contact with the contact surface.

Result

- » Screw connection is not correct (A): Paper strip (2) fits underneath the screw head (1).
- » The screw (1) is not fully in contact with the contact surface.

Measure

- Loosen screw (1).



TECHNICAL INFORMATION

Do not exceed the specified tightening torque.

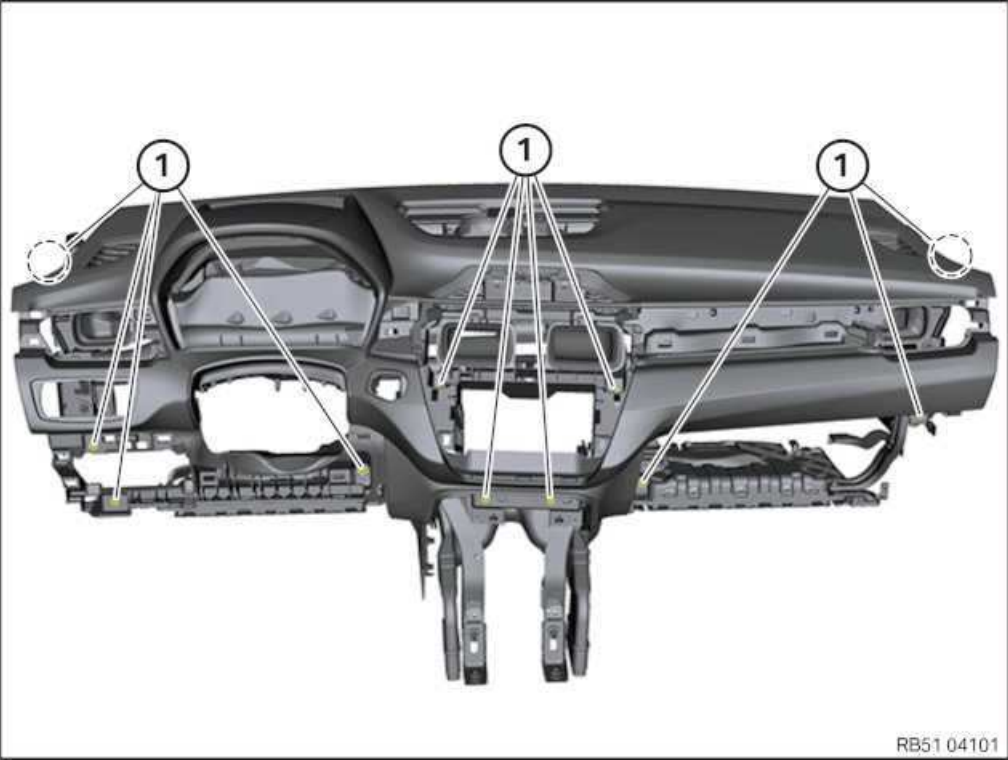
- Once again tighten the screw (1).

Front passenger airbag to instrument panel

Oval-head screw		M6	2,3 Nm
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POSTPROCESSES

35 – Install instrument panel trim



i

TECHNICAL INFORMATION

Notes on unlocking/locking airbag plug connections form the basis for these repair instructions and must be observed without fail.
For additional information see: 72 00 ... Notes on unlocking/locking airbag plug connections

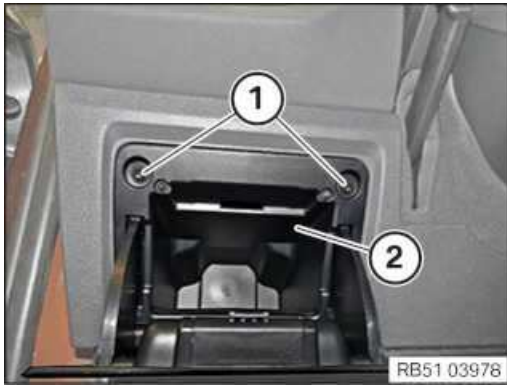
- Guide the instrument panel trim through the door aperture with the help of an auxiliary person.
- Install the instrument panel trim, and while doing so secure the wiring harness and connect and lock all the connectors.
- Connect and lock the plug connection of the front passenger airbag.
- Make sure guides on instrument panel are correctly seated in respective mountings of bulkhead.
- Make sure seals for the air ducts are correctly seated.
- Make sure wiring harness is correctly laid.
- Tighten the screws (1).

Instrument panel trim to carrier support

Screw		Tightening torque	2,4 Nm
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36 – Installing the left fold-down compartment

- Guide in the fold-down compartment (2) on the instrument panel.



- Tighten the screws (1).

Fold-down compartment to instrument panel

Screw		Tightening torque	1,8 Nm
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37 – Installing the instrument cluster (KOMBI)

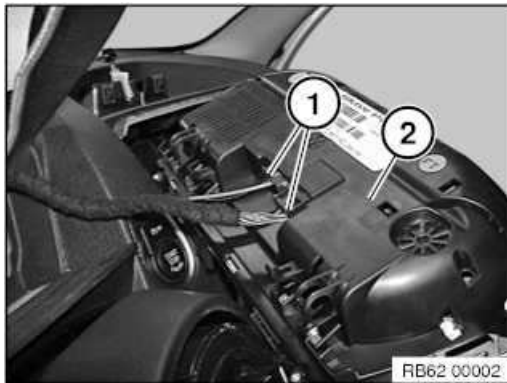


RISK OF DAMAGE

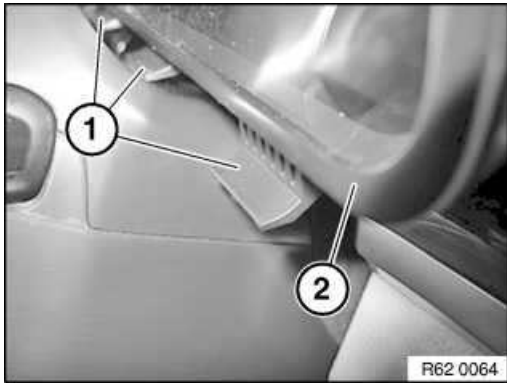
Scratches.

Tools and sharp-edged components can cause scratches.

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



- Connect and lock all connectors (1) to the instrument cluster (KOMBI).



- Make sure that the retaining tabs (1) of the instrument cluster (KOMBI) (2) are seated exactly in mountings of the instrument panel.



- Position the instrument cluster (KOMBI) position in the opposite direction of the arrow.
- Tighten the screws (1).

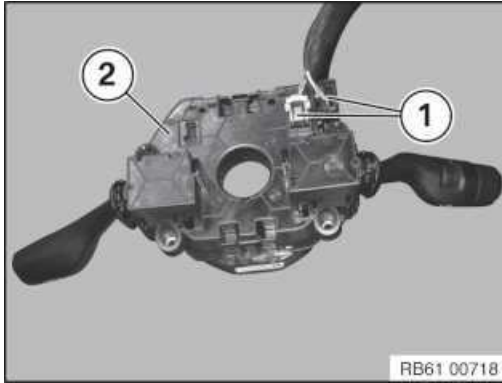
Instrument cluster to instrument panel

Screw			1,7 Nm
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38 – Installing the steering column switch cluster (SZL)



- **Replacement:** Break off the transportation retainer (1) on the steering column switch cluster (SZL) (2) in direction of arrow.
The broken-off piece of (3) the transportation retainer (1) remains in the steering column switch cluster (SZL) (2).



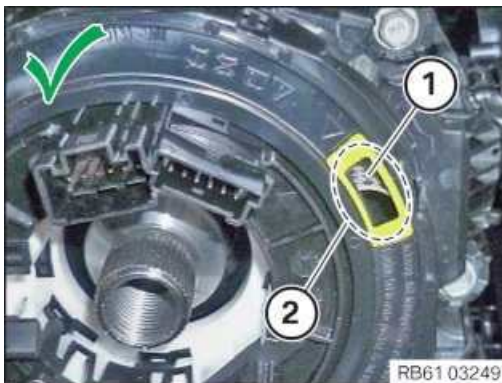
- Connect the connector (1) with the steering column switch cluster (SZL) (2).

► Check the neutral position of the clock spring



TECHNICAL INFORMATION

Different variants may be installed depending on the vehicle equipment.



Check

- **Version A:**

Check the mark (1) on the coil spring in the inspection glass (2).

Result

» The mark (1) on the coil spring is not visible.

Measure

- Turn the coil spring cassette until the mark (1) on the coil spring becomes visible in the inspection glass (2).

Check



• **Version B:**

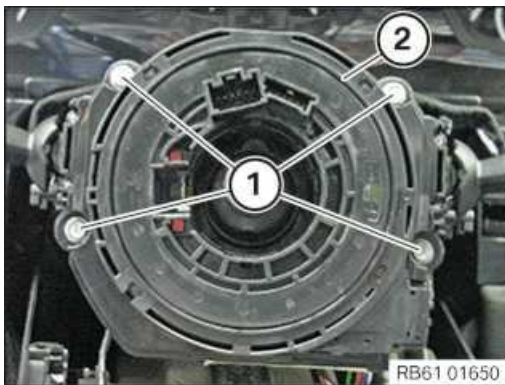
Check the mark (1) on the coil spring in the inspection glass (2).

Result

» The mark (1) on the coil spring is not visible.

Measure

- Turn the coil spring cassette until the mark (1) on the coil spring becomes visible in the inspection glass (2).

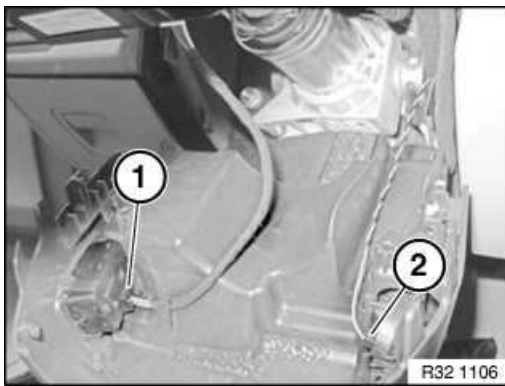


- Position the steering column switch cluster (SZL) (2).
- Tighten the screws (1).

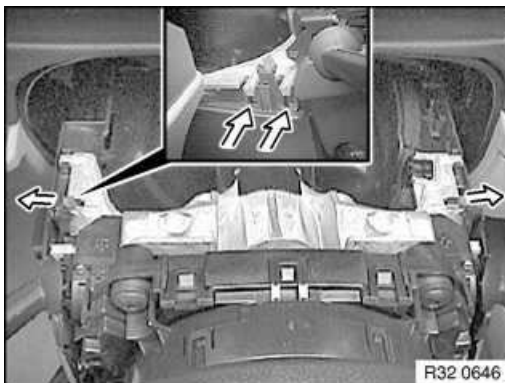
Steering column switch cluster (SZL) on the steering column

Screw TS5x20		Tightening torque	3 Nm
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39 – Install steering column shroud lower section



- Position the steering column shroud lower section .
- Connect available connectors (1) and (2) and lock.

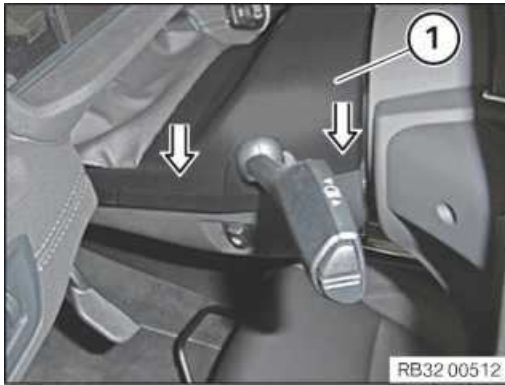


- Position the steering column shroud lower section with the retaining lugs (arrows).
- Press steering column shroud lower section completely towards the top until the retaining lugs (arrows) engage.

40 – Fit steering column shroud upper section



- Position the steering column shroud upper section.
- Attach gap cover of the steering column (1) on the brackets (arrows).



- Position the steering column shroud upper section (1).



NOTICE

Perform the operations on the left and right side.

- Press the upper section of the steering column shroud (1) downwards in direction of arrow.
The upper section of the steering column shroud must engage audibly and perceptibly.

41 – Installing the steering wheel/sports steering wheel

► Check the neutral position of the clock spring

- Ensure that the coil spring is not twisted.
There are clock springs installed without a mechanical anti-twist lock.
Coil springs without a mechanical anti-twist lock are identifiable on the inspection glass for the neutral position mark.
- Check the neutral position of the clock spring on the steering column switch cluster (SZL).
The neutral position is correct if the yellow or green mark (1) is clearly visible.

Check

- Check the mark (1) in the inspection glass.



Result

» The mark (1) is not visible.

Measure

- Turn the coil spring until mark (1) is visible in the inspection glass.

Check



- A micro-encapsulated screw (1) may be fitted.
- Checked threaded connection

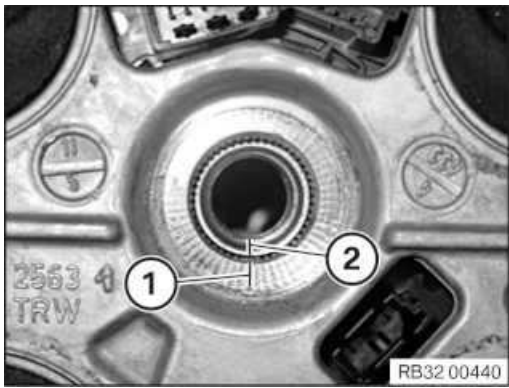
Result

» Screw (1) is micro-encapsulated.

Measure

- Clean thread in the steering column.
Renew the screw (1).

Parts: Screw



- Align and connect the steering wheel/sports steering wheel according to the mark (1) with the steering column mark (2).



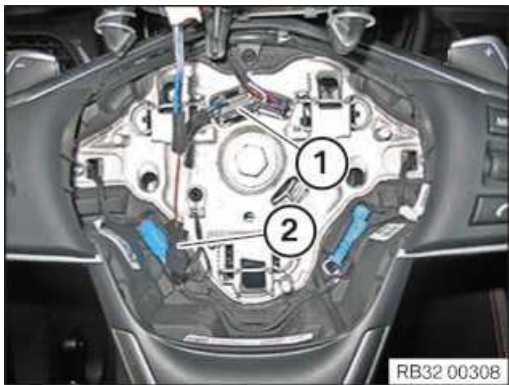
- Tighten down screw (1).

Steering wheel to steering column

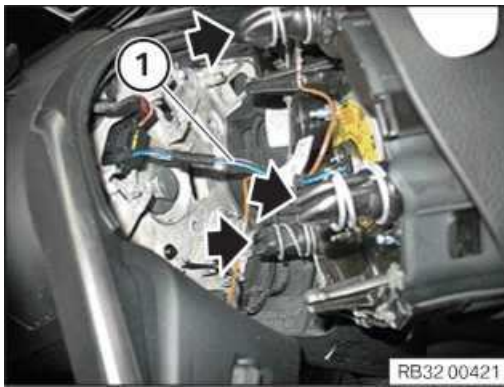
M14	Only for a micro-encapsulated screw: Renew screw.	Tightening torque	62,5 Nm
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- **Connect connectors and lock.**
Make sure connecting lines are correctly routed.

42 – Installing airbag unit of steering wheel/sports steering wheel



- Connect and lock connectors (1) and (2) of the airbag unit.



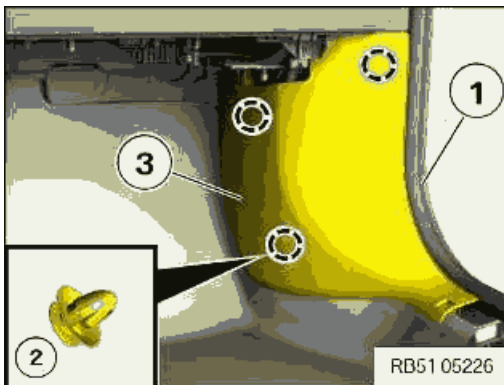
- Before installing the airbag unit, align the wiring harness (1) to the centre so that the latch mechanisms (arrows) are exposed!



- Position airbag unit (1).
- Press the airbag unit (1) with even pressure in each case in the direction of the arrow into the steering wheel.

The airbag unit (1) must engage audibly and perceptibly.

43 – Installing side trim panel in footwell on right A-pillar



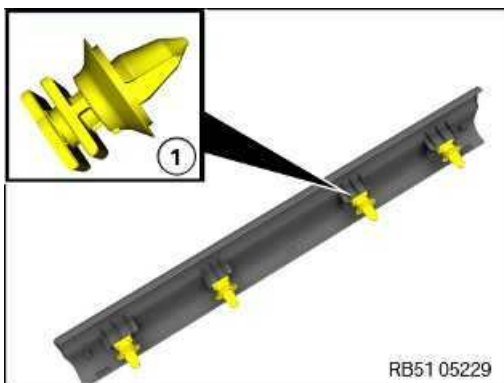
- Check clips (2) for damage, and replace if necessary.
- Feed the side trim panel (3) under the sealing lip of the edge protection (1).
- Clip in the side trim panel (3) with the clips (2).

44 – Install the front right door sill cover strip

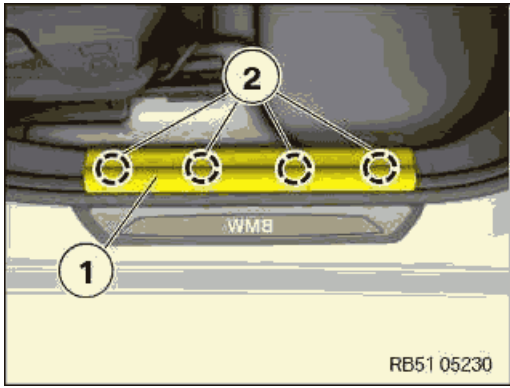


NOTICE

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

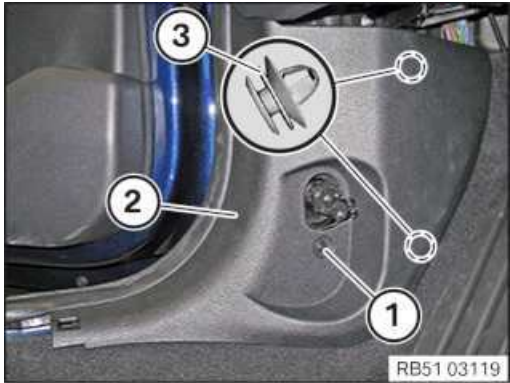


- Check the clips (1) for damage and renew where required.



- Clip the door sill cover strip (1) into the floor panel with the clips (2).

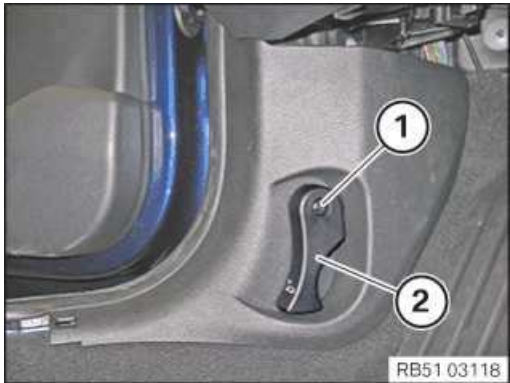
45 – Installing side trim panel in the footwell at A-pillar



- Position the side trim panel (2) and clip it to the clips (3).
- Make sure the edge protection on the side trim panel (2) fits correctly.
- Tighten down screw (1).

Side trim panel bottom left to holder

Screw		Tightening torque	3 Nm
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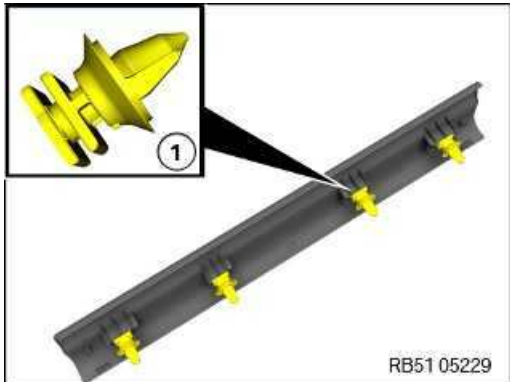


- Install lever for the bonnet release (2).
- Tighten down screw (1).

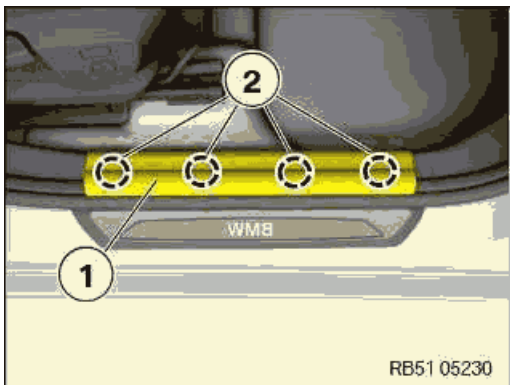
Lever for bonnet release to the holder

Screw		Tightening torque	3 Nm
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46 – Install the front door sill cover strip



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



- Clip the door sill cover strip (1) into the floor panel with the clips (2).

47 – 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

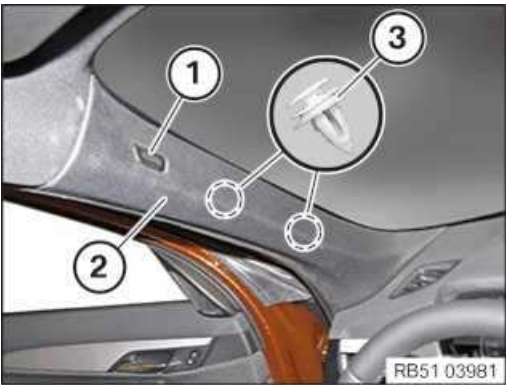
Pyrotechnic components.

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
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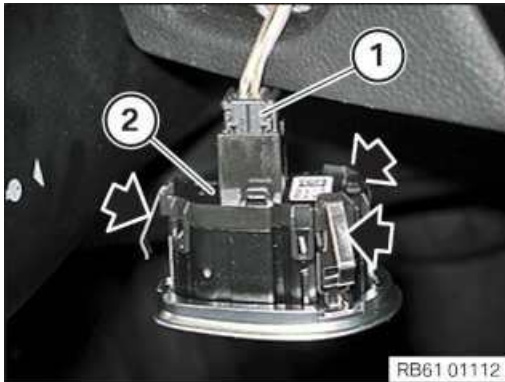
- Clip in the cover (1).

48 – Installing the light operating unit



- Connect associated connector.
- Position light operating unit (1) correctly and clip in where marked.

49 – Installing the START-STOP button



- Connect connector (1) with START-STOP button (2).
The retaining clips (arrows) must not be damaged or missing.



- Install START-STOP button (1) in the instrument panel trim.

50 – Install decorative strip from instrument panel



TECHNICAL INFORMATION

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



- Install decorative strip (1) a snap into the clamps (2).

51 – Install the Head Unit High (HU-H)



RISK OF DAMAGE



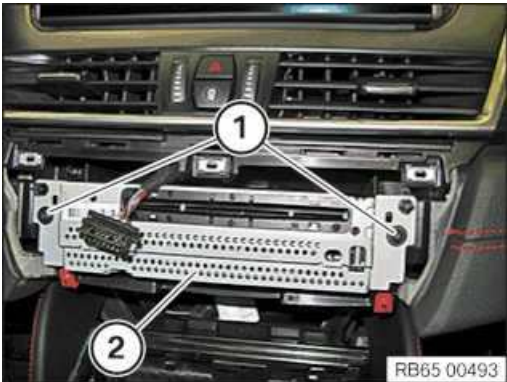
Electrostatic discharge.

Damage to or destruction of electrical components.

- Leave electrical components in original packaging until just before they are installed. Use the original packaging only for any return shipments. Always package removed components straight away.
- Read and comply with user information on using the associated special tool 12 7 060.
- Only touch the housings of electrical components. Do not touch pins or multi-pin connectors directly.
- Wear electrically conductive clothing and antistatic shoes (with ESD symbol).
- For additional information see: 61 35 Information on electrostatic discharge (ESD) protection.



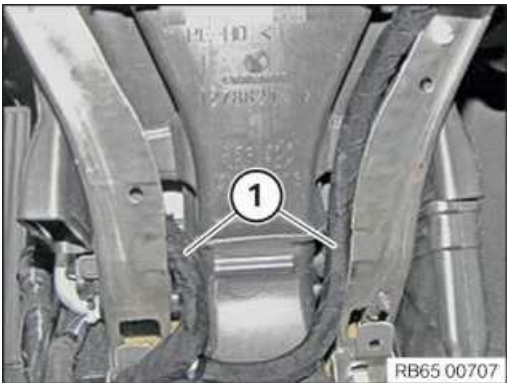
- Position head unit (1).
- Connect and lock all connectors in the marked area.



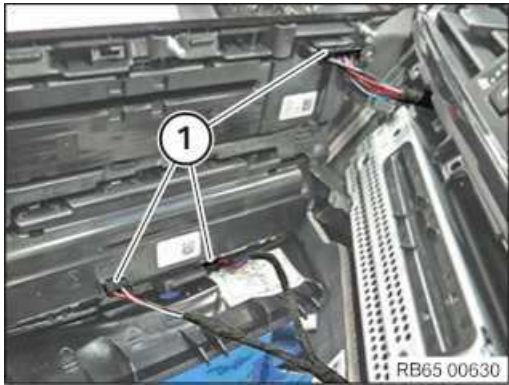
- Slide in the head unit (2) correctly.
- Tighten the screws (1).

Head unit to instrument panel

Screw		Tightening torque	1,8 Nm
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- Route the wiring harness (1) correctly.



- Position audio operating unit and air conditioning control panel.
- Connect plug connection (1) and lock.



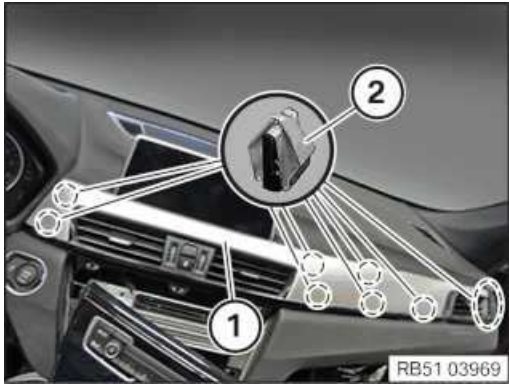
- Correctly position trim (1) and clip it into the instrument panel (2).

53 – Install the finisher on the right instrument panel

i

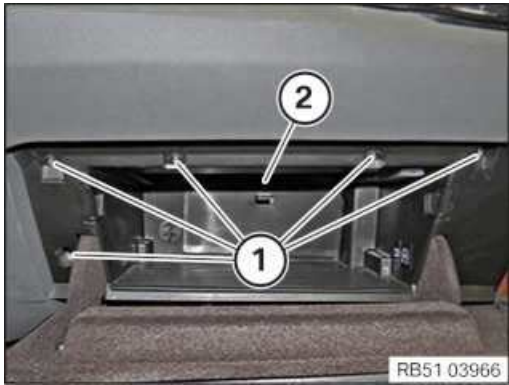
TECHNICAL INFORMATION

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



- Install the decorative strip (1).
- Connect connector.
- Engage the decorative strip (1) on the clamps (2).

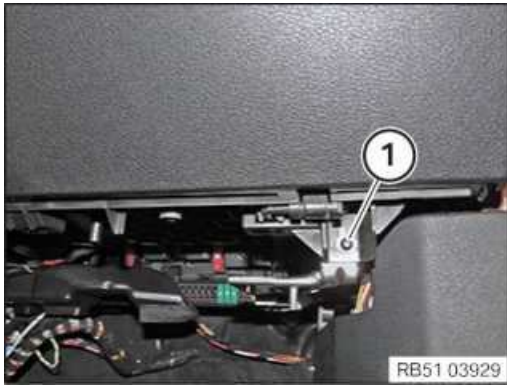
54 – Install right glove box



- Install the glove box (2) and connect and lock associated plug connections.
- Tighten the screws (1).

Glove box to instrument panel

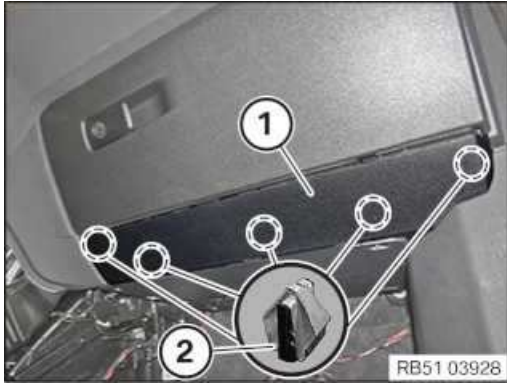
Screw		Tightening torque	1,8 Nm



- Tighten down screw (1).

Glove box to instrument panel

Screw		Tightening torque	1,8 Nm
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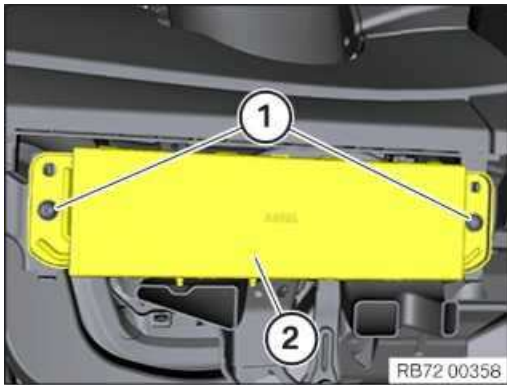
i

TECHNICAL INFORMATION

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

- Install the trim (1) and lock it at the clamps (2).

55 – Installing knee airbag



- Connect the plug connection to the knee airbag (2) and lock.
- Install knee airbag (2).
- Renew screws (1).

Parts: Screw

- Tighten the screws (1).

Knee airbag to body

M8	Renew screws.	Tightening torque	8 Nm
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56 – Install the side panel on instrument panel on the left and right



NOTICE

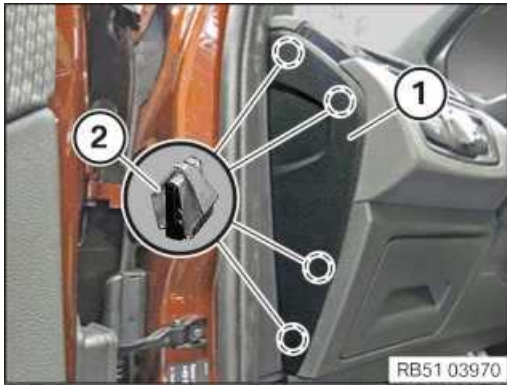
Description is for left component only. Procedure on the right side is identical.

- Install side panel on the instrument panel

i

TECHNICAL INFORMATION

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



- Feed in the side panel (1) at an angle toward the front and lock at the clamps (2).

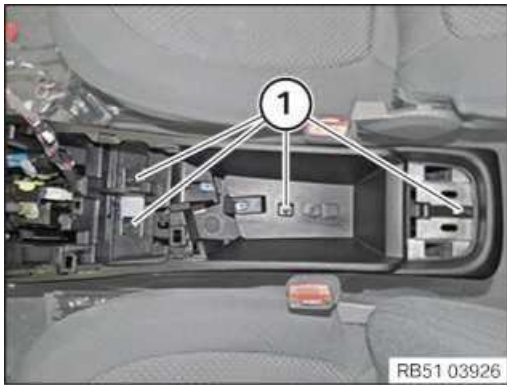
57 – Installing centre console fully with centre armrest



- Lift rear centre console (2), guide it forwards and connect all the connectors.
- Insert the wiring harness into the centre console (2).
- Tighten the screws (1).

Screw connection for centre console

Oval-head screw		Tightening torque	1,8 Nm
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- Tighten the screws (1).

Screw connection for centre console

Oval-head screw		Tightening torque	1,8 Nm
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► Installing the centre armrest

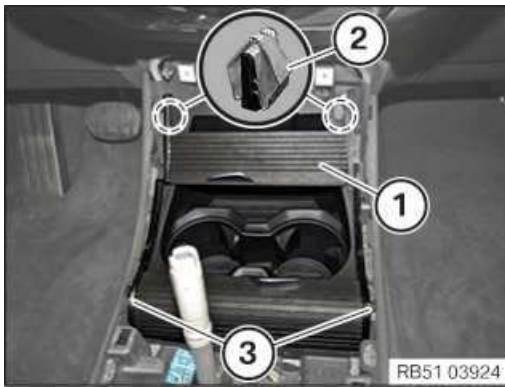
- Install the centre armrest and tighten nuts (1).

Centre armrest to support

Nut M8		Tightening torque	21,4 Nm
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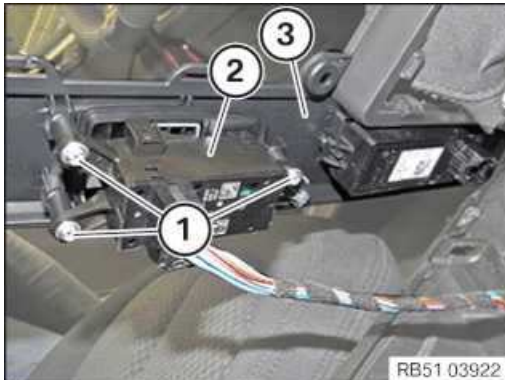


58 – Installing the front storage compartment



- Install storage compartment (1) and connect the connectors.
- Insert the storage compartment (1) into the guides (3) and fold forward.
- Engage storage compartment (1) in the clamps (2) at top.

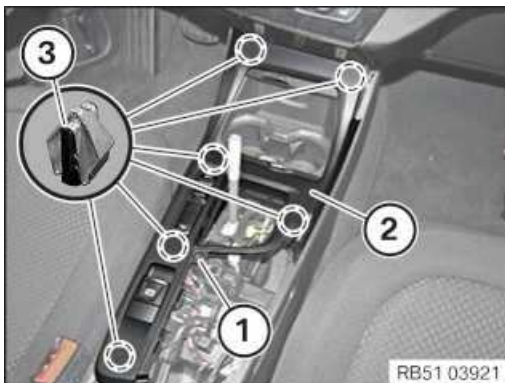
59 – Install the centre console trim



- Install centre console trim (3) and connect and lock the corresponding connectors.
- Install parking brake button (2) on centre console trim (3).
- Tighten the screws (1).

Parking brake button

Oval-head screw		Tightening torque	1,5 Nm
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- Install centre console trim (2) and engage it into clamps (3).
- Tighten down screw (1).

Screw connection for centre console

Oval-head screw		Tightening torque	1,8 Nm
-----------------	--	-------------------	--------

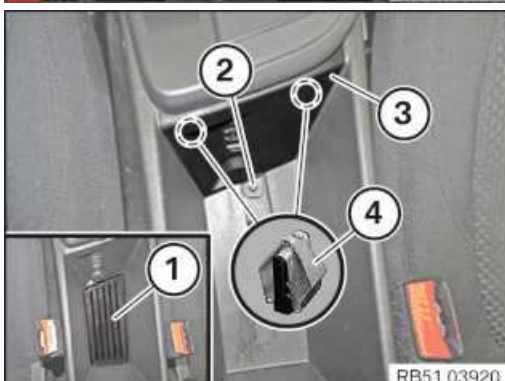
60 – Installing the decorative trim to the centre console



- Connect all connectors.
- Install decorative trim (2).
- Tighten down screw (1).

Screw connection for centre console

Oval-head screw		Tightening torque	1,8 Nm
-----------------	--	-------------------	--------

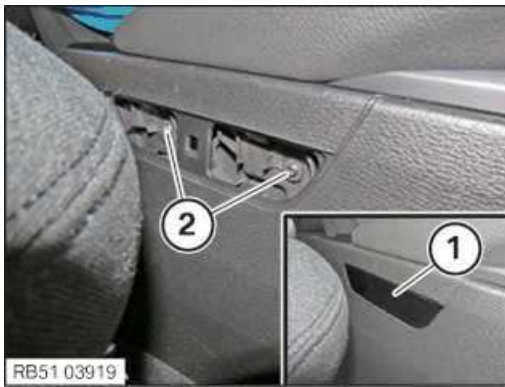


- Position trim (3) and connect all the connectors.
- Install trim (3) and engage it into clamps (4).
- Tighten down screw (2).

Trim to centre console

Oval-head screw		Tightening torque	1,8 Nm
-----------------	--	-------------------	--------

- Insert the insert (1).



- Tighten down screws (2).

Screw connection for centre console

Oval-head screw		Tightening torque	1,8 Nm
-----------------	--	-------------------	--------

- Install cover (1) and engage.



- Tighten down screws (2).

Screw connection for centre console

Oval-head screw		Tightening torque	1,8 Nm
-----------------	--	-------------------	--------

- Install cover (1) and engage.

61 – Installing the gearshift lever cover



- Place the gearshift lever knob on gearshift lever and align by lightly pressing in the direction of travel.

The anti-twist lock must bite.

- Press the gearshift lever knob with the palm of the hand until it can be felt to engage.

When installing, the tie rod of the gearshift lever must not be bent.



- Clip in gaiter (arrows).

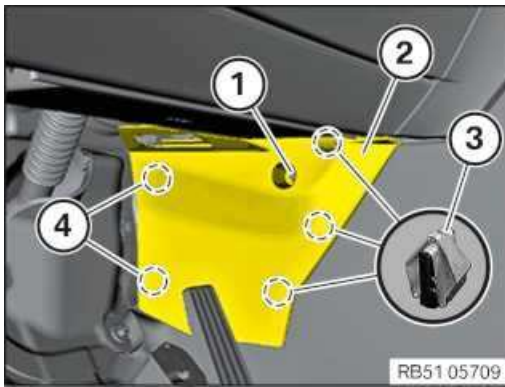
62 – Installing side trim panel for the left and right centre console

► Installing side trim panel for the left centre console



TECHNICAL INFORMATION

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



- Install the side trim panel (2) for the centre console and feed it into the guides (4).
- Engage the side trim panel (2) for the centre console into retaining clips (3).
- Tighten down screw (1).

Trim to centre console

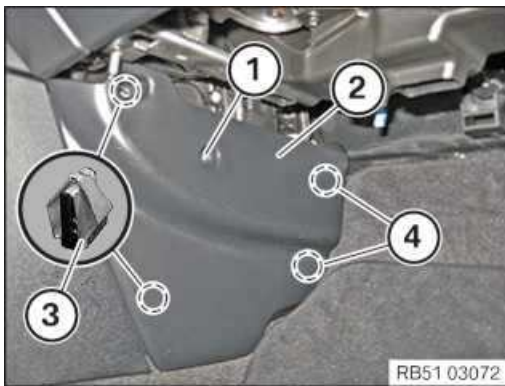
Oval-head screw		Tightening torque	1,8 Nm
-----------------	--	-------------------	--------

► Installing side trim panel for the right centre console

i

TECHNICAL INFORMATION

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



- Install the side trim panel for the centre console (2) and feed it into the guides (4).
- Engage the side trim panel for the centre console (2) into retaining clips (3).
- Tighten down screw (1).

Trim to centre console

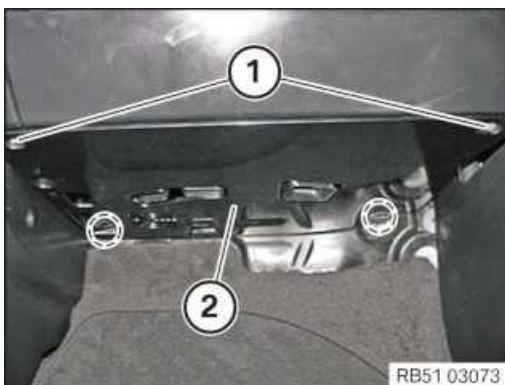
Oval-head screw		Tightening torque	1,8 Nm
-----------------	--	-------------------	--------

63 – Installing the botto right instrument panel trim

i

TECHNICAL INFORMATION

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

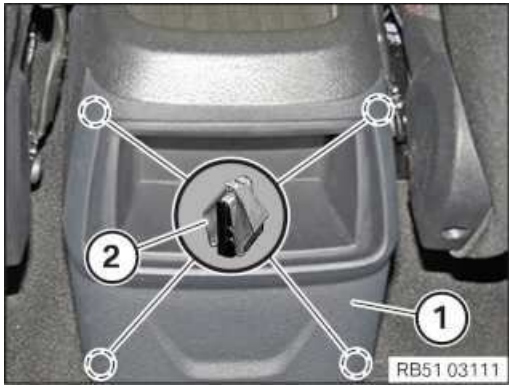


- Install the lower right instrument panel trim (2) and connect and lock the plug connection.
- Insert the lower right instrument panel trim (2) into the front guides.
- Tighten nuts (1).

Bottom left footwell trim to instrument panel

M5 hexagon nut		Tightening torque	2 Nm
----------------	--	-------------------	------

64 – Installing the rear centre console trim



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

65 – Disconnecting all battery earth leads



- See additional information.

Additional Information

Overview of Tightening Torques

Front passenger airbag to instrument panel

Used in step [34](#)

Oval-head screw	M6	2,3 Nm
-----------------	----	--------

Instrument panel trim to carrier support

Used in step [35](#)

Screw	Tightening torque	2,4 Nm
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Fold-down compartment to instrument panel

Used in step [36](#)

Screw	Tightening torque	1,8 Nm
-------	-------------------	--------

Instrument cluster to instrument panel

Used in step [37](#)

Screw	1,7 Nm
-------	--------

Steering column switch cluster (SZL) on the steering column

Used in step [38](#)

Screw TS5x20	Tightening torque	3 Nm
--------------	-------------------	------

Steering wheel to steering column

Used in step [41](#)

M14	Only for a micro-encapsulated screw: Renew screw.	Tightening torque	62,5 Nm
-----	---	-------------------	---------

Side trim panel bottom left to holder

Used in step [45](#)

Screw	Tightening torque	3 Nm
-------	-------------------	------

Lever for bonnet release to the holder

Used in step [45](#)

Screw	Tightening torque	3 Nm
-------	-------------------	------

A-pillar trim panel to bodyUsed in step [47](#)

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

Head unit to instrument panelUsed in step [51](#)

Screw		Tightening torque	1,8 Nm
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Glove box to instrument panelUsed in step [54](#)

Screw		Tightening torque	1,8 Nm
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Knee airbag to bodyUsed in step [55](#)

M8	Renew screws.	Tightening torque	8 Nm
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Screw connection for centre consoleUsed in step [57](#) [59](#) [60](#)

Oval-head screw		Tightening torque	1,8 Nm
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Centre armrest to supportUsed in step [57](#)

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

Parking brake buttonUsed in step [59](#)

Oval-head screw		Tightening torque	1,5 Nm
-----------------	--	-------------------	--------

Trim to centre consoleUsed in step [60](#) [62](#)

Oval-head screw		Tightening torque	1,8 Nm
-----------------	--	-------------------	--------

Bottom left footwell trim to instrument panelUsed in step [63](#)

M5 hexagon nut		Tightening torque	2 Nm
----------------	--	-------------------	------

Overview of Special Tools**0 496 571 (00 9 327) Wedge****Common**Used in step [6](#)

Usage	(Cleaning wedge) From 11/2008 this special tool replaces panel wedge 00 9 323 (different material)
Included in the tool or work	0 490 527
Storage location	Individual
Replaced by	
In connection with	
SI-Number	01 07 09 (530)

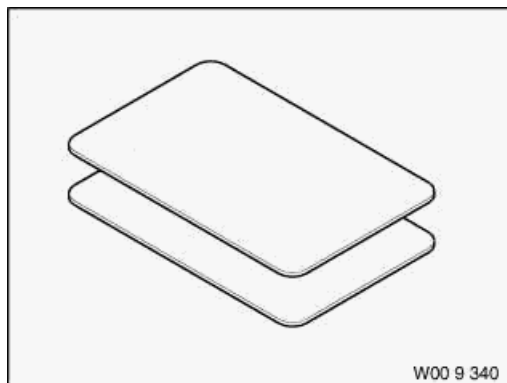
GR SW0093-25

Common		Used in step	7	9	11	13	16	17	21	23
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)									

GRSW-2298505

Common		Used in step	14
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)		

0 493 687 (00 9 340) Removal aid



Common

Used in step 18

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

2 298 504 Wedge



Common

Used in step 27

Usage Wedge with angled lug

Included in the tool or work

Storage location C34

Replaced by

In connection with

SI-Number 01 03 12 (792)

Links

General repair instructions

Used in step

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

20 33 34 47

Repair instructions

Used in step

[61 20 900 Disconnecting and connecting battery earth lead](#) 1 65

[61 20 900 Disconnecting and connecting battery earth lead](#) 1 65

[61 20 900 Disconnecting and connecting battery earth lead](#) 1 65

[61 20 900 Disconnecting and connecting battery earth lead](#) 1 65

[61 20 900 Disconnecting and connecting battery earth lead](#) 1 65

[61 20 900 Disconnecting and connecting battery earth lead](#) 1 65

[61 20 900 Disconnecting and connecting the battery earth lead \(all battery earth leads\)](#) 1 65

[61 20 900 Disconnecting and connecting the battery earth lead \(all battery earth leads\)](#) 1 65

[61 20 900 Disconnecting and connecting battery earth lead](#) 1 65

[61 20 900 Disconnecting and connecting the battery earth lead \(all battery earth leads\)](#) 1 65

[61 20 900 Disconnect and connect battery earth lead \(Plug-in Hybrid Electric Vehicle\)](#) 1 65

[61 20 900 Disconnecting and connecting battery earth lead](#) 1 65

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61 20 900 Disconnecting and connecting battery earth lead	1	65
61 20 900 Disconnecting and connecting the battery earth lead (all battery earth leads)	1	65
61 20 900 Disconnecting and connecting battery earth lead	1	65
61 20 900 Disconnecting and connecting battery earth lead	1	65
61 20 900 Disconnecting and connecting battery earth lead	1	65
61 20 900 Disconnecting and connecting battery earth lead	1	65
61 20 900 Disconnecting and connecting battery earth lead	1	65
61 20 900 Disconnecting and connecting battery earth lead	1	65
61 20 900 Disconnecting and connecting battery earth lead	1	65
61 35 ... Notes on ESD protection (Electro Static Discharge)		
72 12 ... Unlocking/locking airbag plug connections	32	33 35

72 12 061 Removing and installing/replacing left or right head airbag (for version with panorama glass roof)



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.



RISK OF DAMAGE

Scratches.

Tools and sharp-edged components can cause scratches.

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

PRELIMINARY WORK

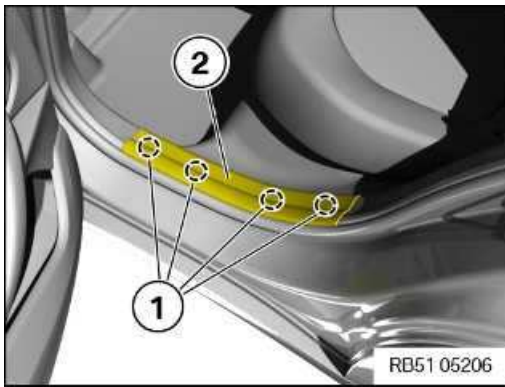
1 – Remove the door sill cover strip on the rear left and right



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).

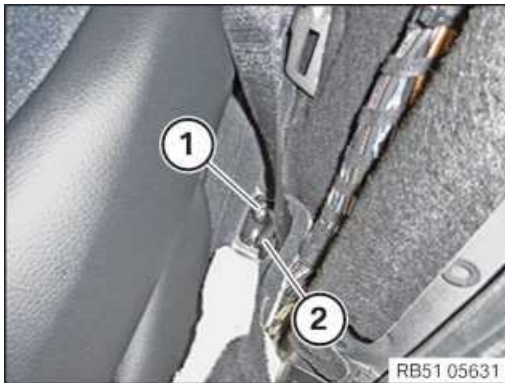
2 – Removing the bottom left and right C-pillar trim panels



NOTICE

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

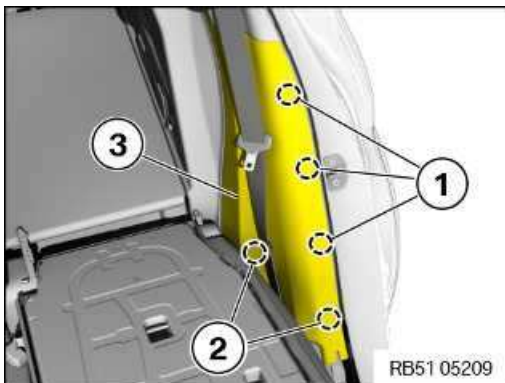
► Remove the bottom C-pillar trim panel



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

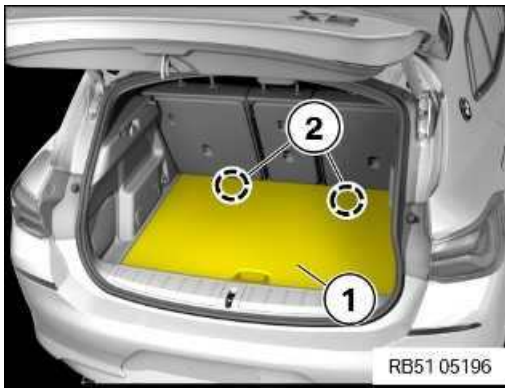


- Release the edge protection (1) in area of the bottom C-pillar trim panel.



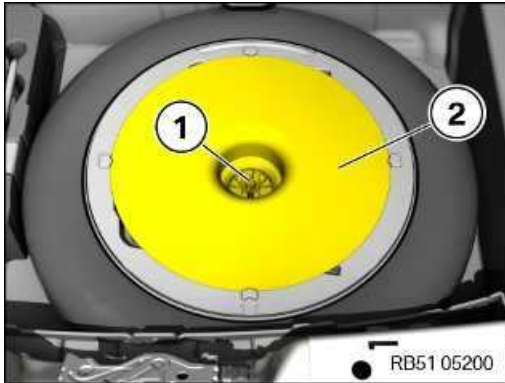
- Clip in the C-pillar trim panel (3) on the bottom with the clamps (1) and the clips (2).
- Detach end fitting and remove the bottom C-pillar trim panel (3).

3 – Removing the luggage compartment removable panel

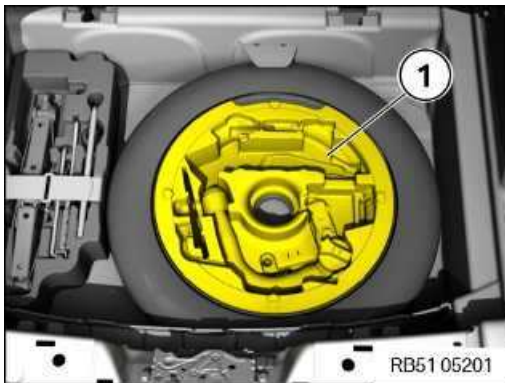


- Raise the luggage compartment removable panel (1) slightly at the handle, detach it from the latch mechanisms (2) and remove it toward the back.

4 – Removing the compact spare wheel



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

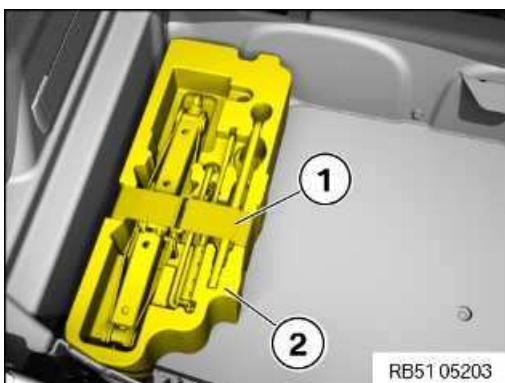


- Remove the oddments tray from the emergency wheel (1).



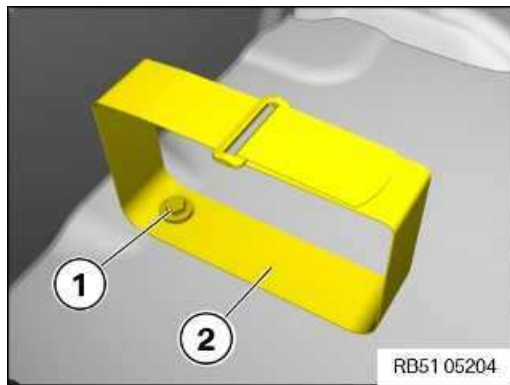
- Remove the emergency wheel (1).

5 – Remove the tool kit



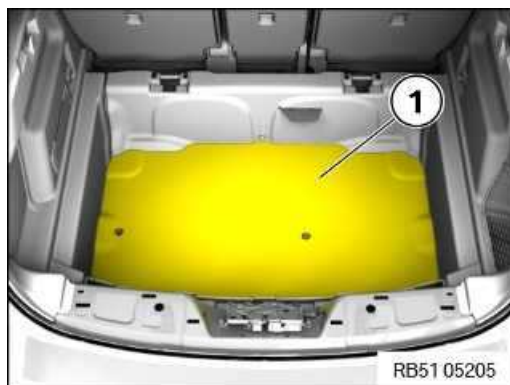
- Open the hook and loop tape (1).
- Remove the tool kit (2).

6 – Remove the hook and loop tape for the tool kit



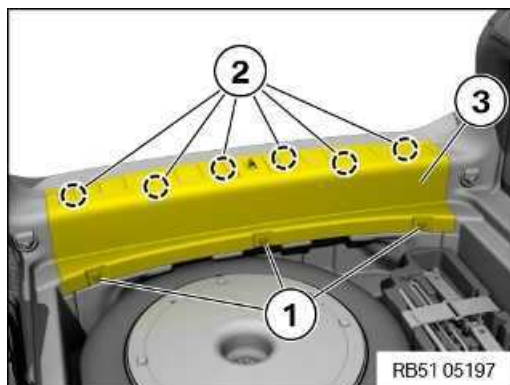
- Loosen screw (1).
- Remove the hook and loop tape (2).

7 – Removing the luggage compartment floor trim panel



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

8 – Removing the loading edge trim

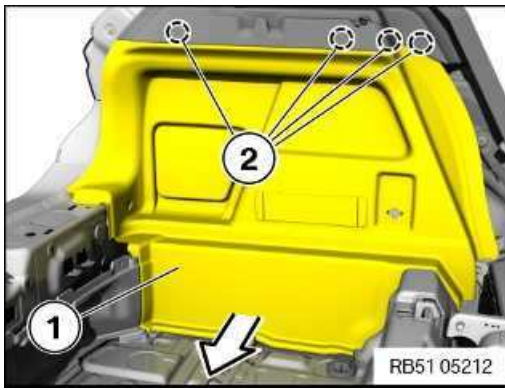


- Loosen the expanding rivet (1).
- Unclip the loading edge trim (3) from the clamps (2) toward the top and remove.

9 – Remove luggage compartment wheel arch trim panel on left.



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

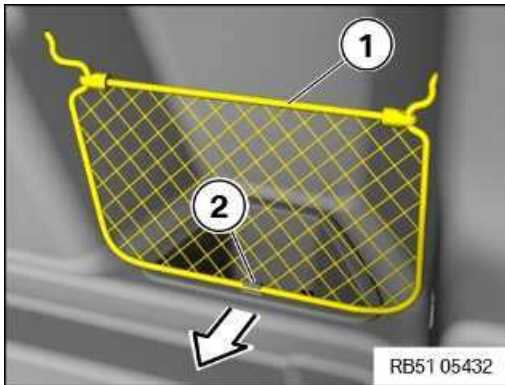


NOTICE

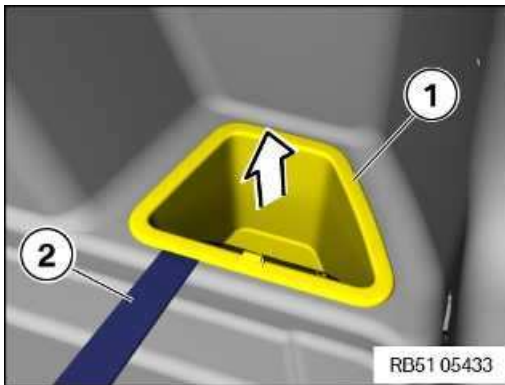
Schematic diagram is for example purposes. Some parts may differ in certain details.

- 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.

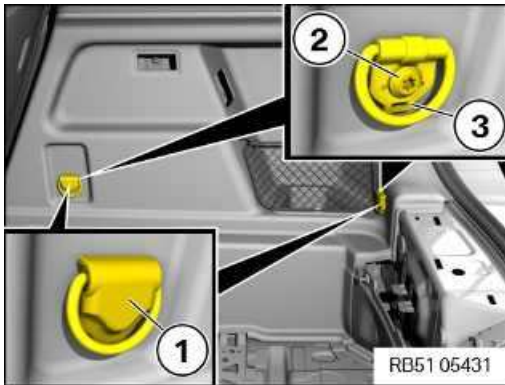
10 – Removing right luggage compartment wheel arch trim panel



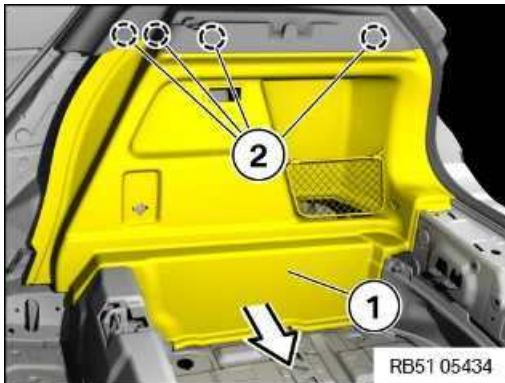
- Release the storage net (1) from the latch mechanism (2) in the direction of arrow and fold up.



- 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.

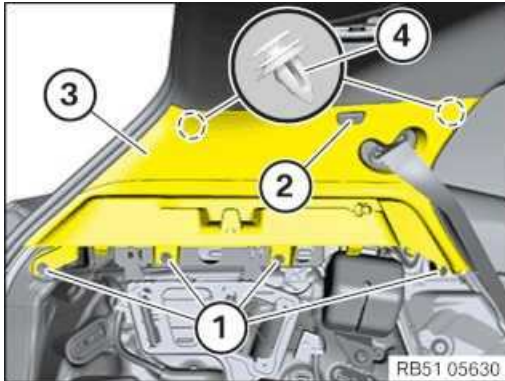
- Pull the luggage compartment wheel arch trim panel (1) on the bottom in the direction of the arrow and guide it out of the guides (2) and the C-pillar trim panel and remove.

11 – 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

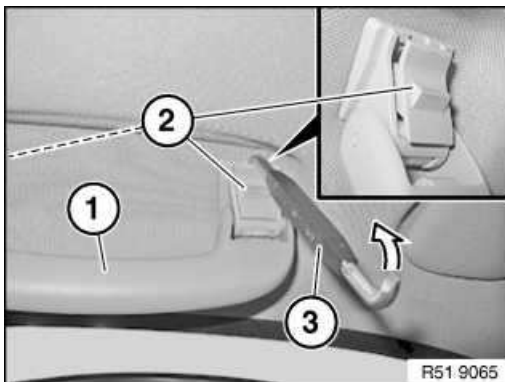
- Loosen screws (1).
- Remove the cover (2) with a suitable plastic wedge and unscrew the screw below it.
- Detach the trim panel of the luggage compartment capping (3) from the clips (4).
- Feed out the end fitting and remove the trim panel of the luggage compartment capping (3).

12 – Removing all grab handles



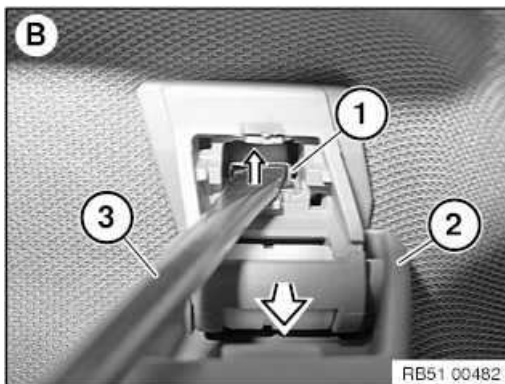
NOTICE

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



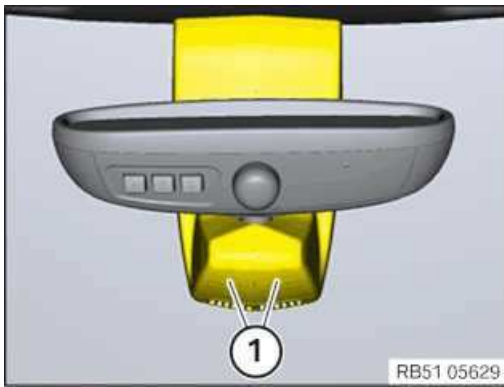
► Removing the grab handle

- 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).

13 – 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.

14 – 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.

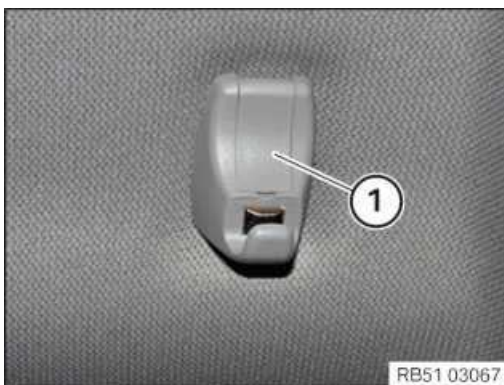
15 – Removing counter supports for sun visor on left and right



NOTICE

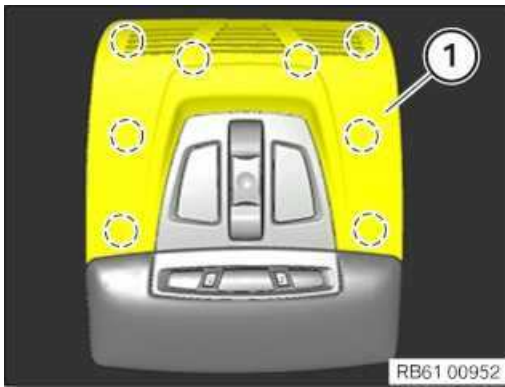
Description is for left component only. Procedure on the right side is identical.

► Remove the counter support for the sun visor

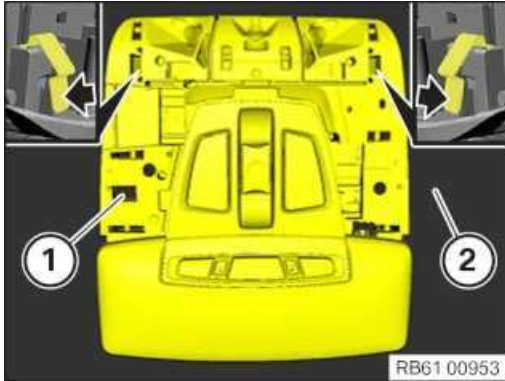


- Open the cover (1) and release the screw underneath.
- Remove the counter support downward.

16 – 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.

17 – 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

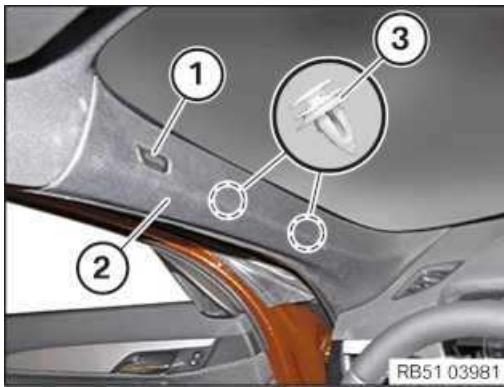


WARNING

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.



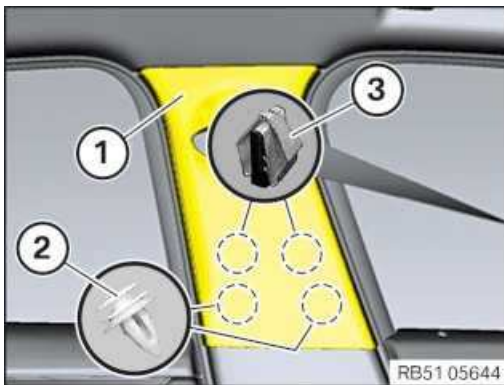
- Unclip cover (1) and unscrew the screw below it.
- Release the A-pillar trim panel (2) from the clips (3) and guide out upwards.

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



NOTICE

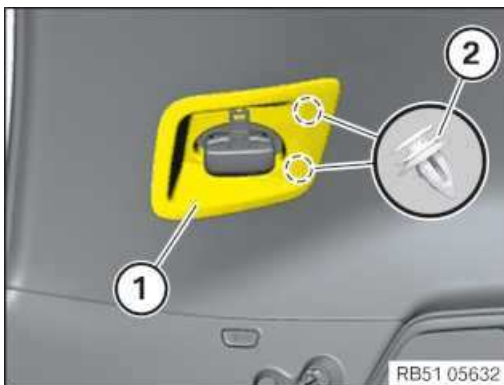
Description is for left component only. Procedure on the right side is identical.



► 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.

19 – 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).

20 – 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.

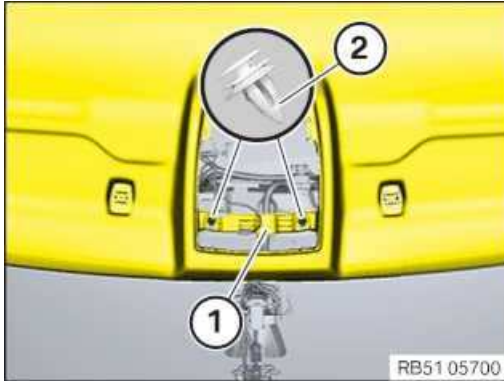


RISK OF DAMAGE

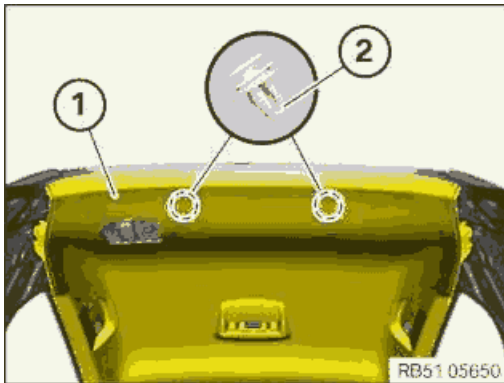
Fold the headlining.

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

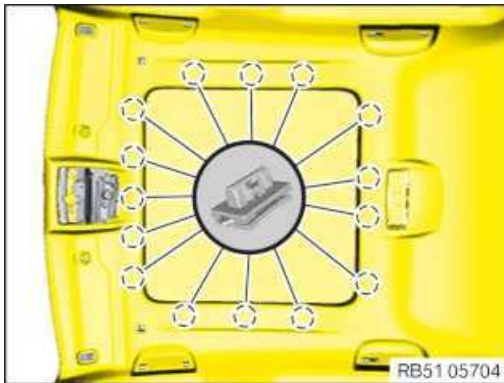
- Carry out tasks with a second person to assist.
- Support the headlining at the front and back.



- 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.



- See additional information.

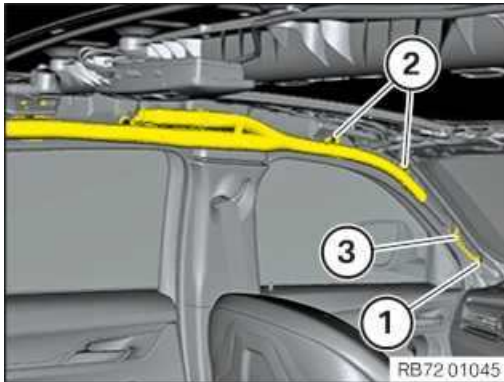
MAIN WORK

22 – Remove head airbag

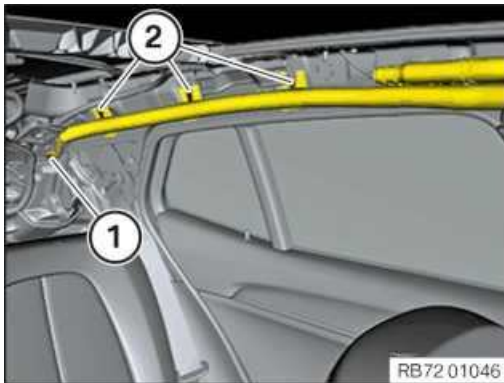


NOTICE

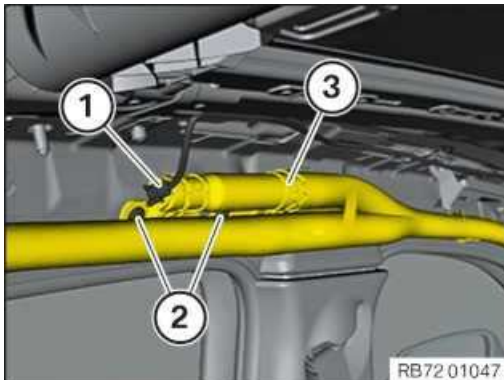
Description is for left component only. Procedure on the right side is identical.



- Loosen screws (1).
- Unlock and detach the clamps (2) with special tool .
- Unclip the clip (3) with a suitable tool.



- Loosen screw (1).
- Unlock and detach the clamps (2) with special tool .



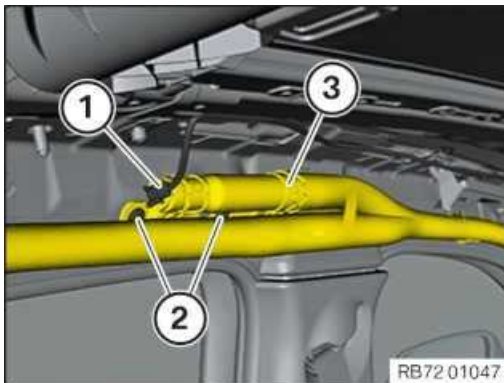
- Unlock plug connection (1) and disconnect.
- Loosen screws (2).
- Guide out the gas generator (3) with the folding pack and remove it.

23 – Mount head airbag



NOTICE

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

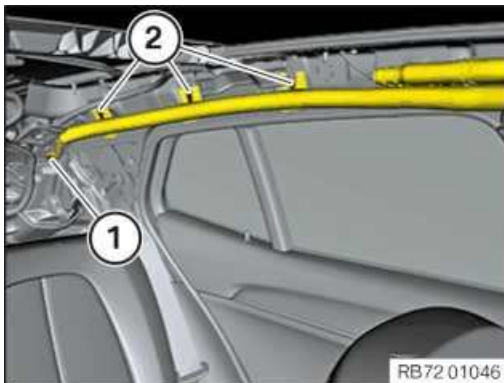


- Thread in gas generator (3) with folding pack and position it.
- Tighten down screws (2).

Head airbag

8 Nm

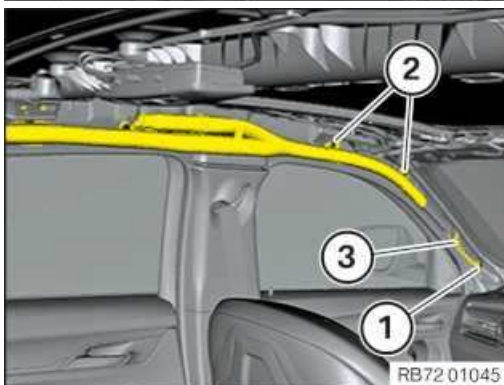
- Connect plug connection (1) and lock.



- Clip in the clamps (2).
- Tighten down screw (1).

Head airbag

8 Nm



- Clip in the clip (3).
- Clip in the clamps (2).
- Tighten the screws (1).

Head airbag

8 Nm

POSTPROCESSES

24 – Disconnecting all battery earth leads



- See additional information.

25 – 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

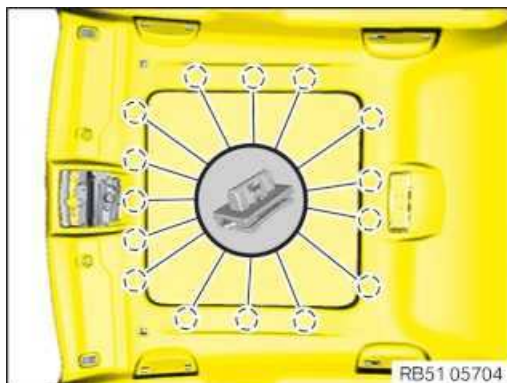
Fold the headlining.

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

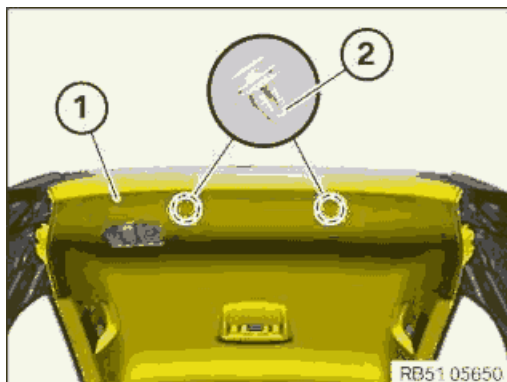
- Carry out tasks with a second person to assist.
- Support the headlining at the front and back.



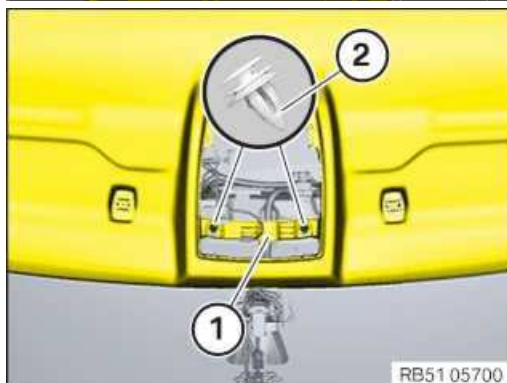
- Install the headlining (1) and carefully insert it at the respective edge protection.



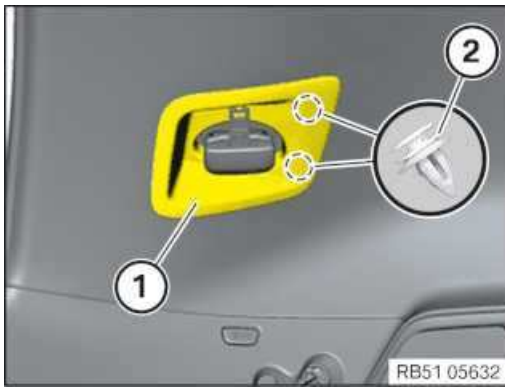
- Carefully engage the headlining on the clamps (1).



- 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).

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



NOTICE

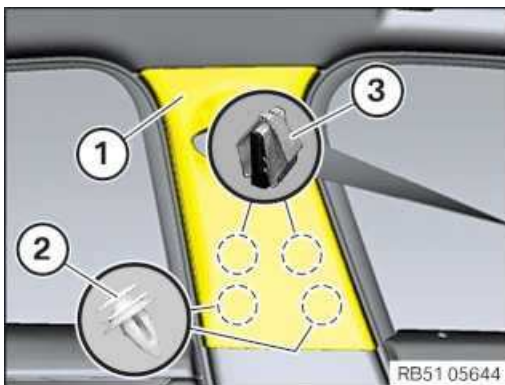
Description is for left component only. Procedure on the right side is identical.

► 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.

28 – 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.



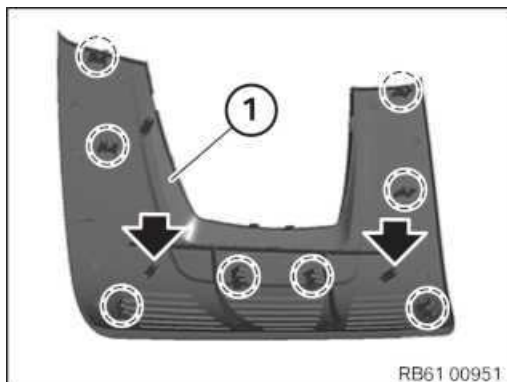
- Thread in the A-pillar trim panel (2) and clip it in at the clips (3).
 - Renew screw.
- Parts:** Screw
- Tighten down screw.

A-pillar trim panel to body

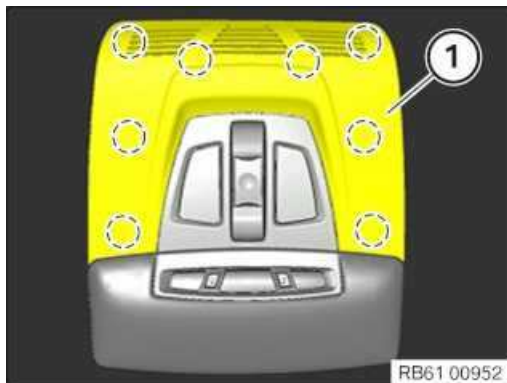
M5x42 screw	Renew screw	Tightening torque	2,2 Nm
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- Clip in the cover (1).

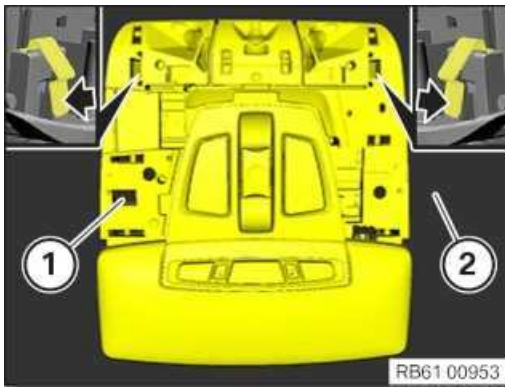
29 – Install the roof function centre



- 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.

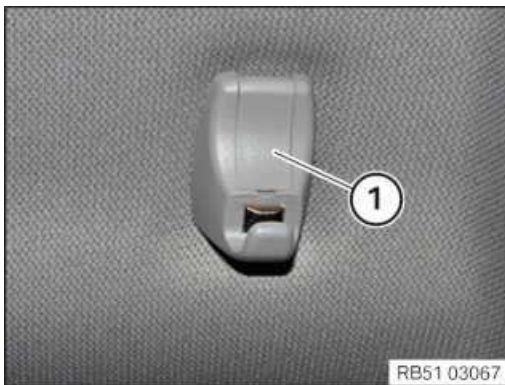
- Connect associated connector.
- Join the roof function centre (1) to the headlining (2).

30 – 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
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31 – Install both sun visors



NOTICE

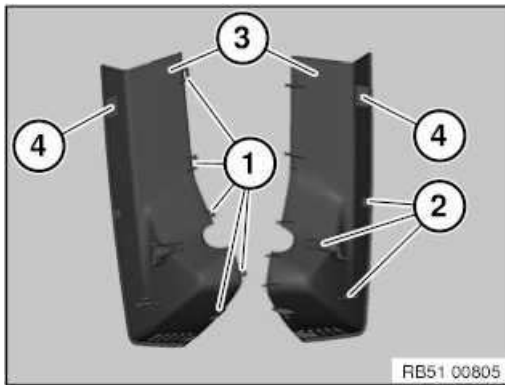
Description is for left component only. Procedure on the right side is identical.



► 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.

32 – Install the cover on the inside mirror

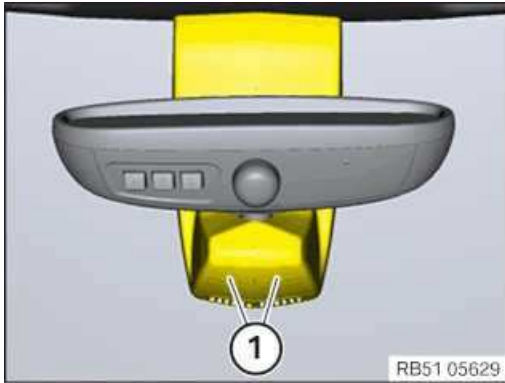


- Check the latch mechanisms (1) and guides (2) on the two covers (3) for damage, renew if necessary.

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.

33 – Installing all grab handles

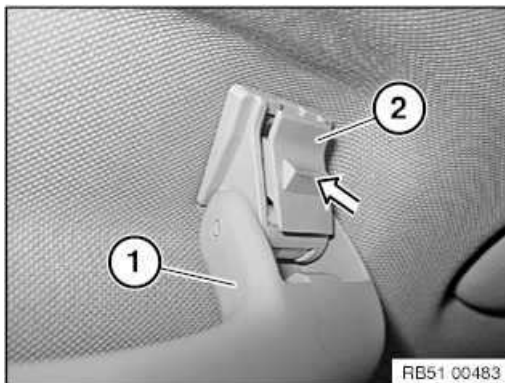


NOTICE

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).



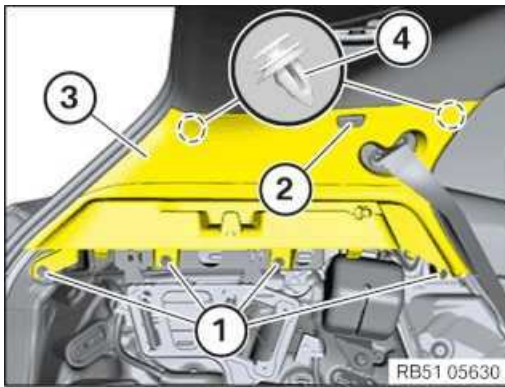
34 – Install the trim panel for left and right the luggage compartment capping



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

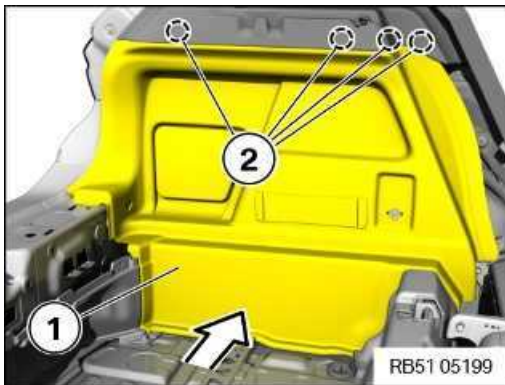
Self-tapping screw		Tightening torque	4 Nm
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- Tighten the screws (1).

Trim panel of luggage compartment capping to body

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

35 – 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).

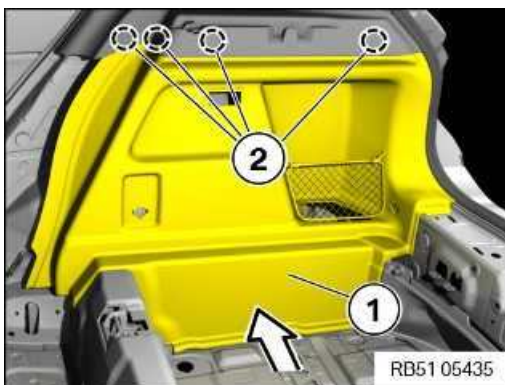
Lashing eye in luggage compartment

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

- Clip in the covers (1).



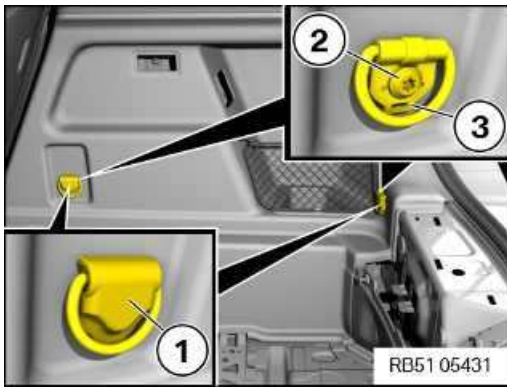
36 – Installing the luggage compartment wheel arch trim panel on the right



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.

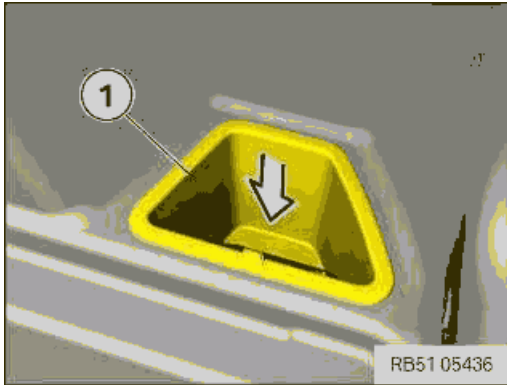


- Position the lashing eyes (3) and tighten the screws (2).

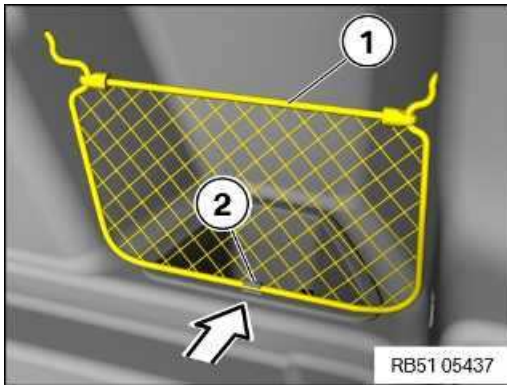
Lashing eye in luggage compartment

Bolt M8 x 22		Tightening torque	21 Nm
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- 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.

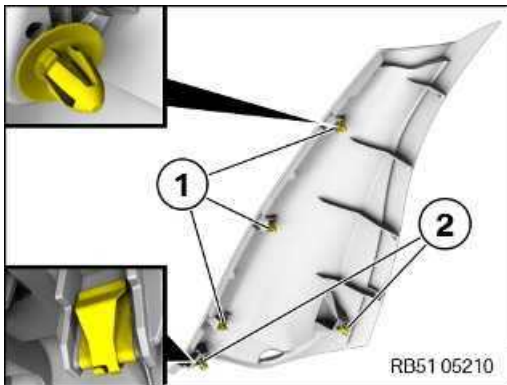
37 – Install C-pillar trim panel at bottom left and right



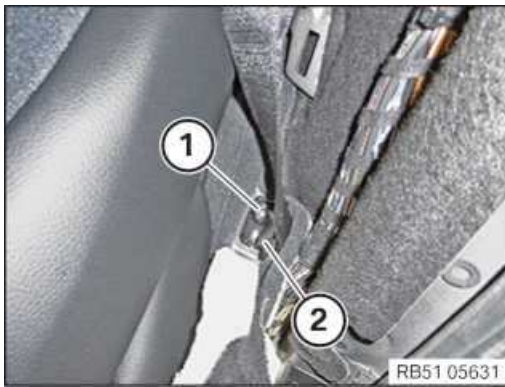
NOTICE

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.

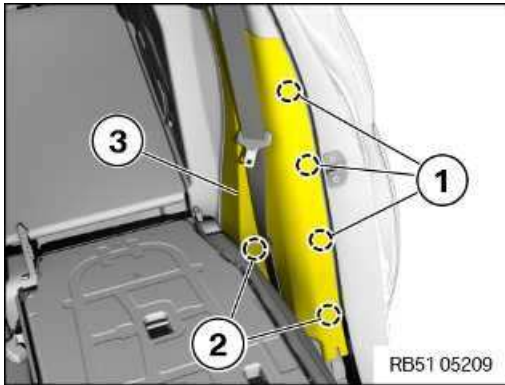


- Insert the end fitting (2) through the C-pillar trim panel.
- Mount the end fitting (2) and tighten the screw (1).

End fitting to body

Screw	Renew screw.	Tightening torque	42 Nm
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- 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.

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

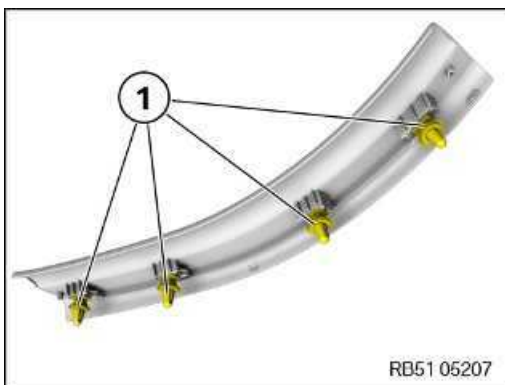


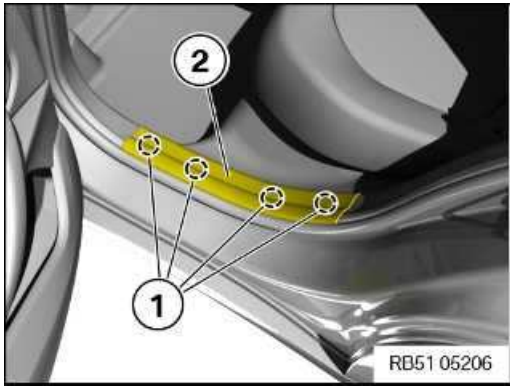
NOTICE

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

► Installing the rear door sill cover strip

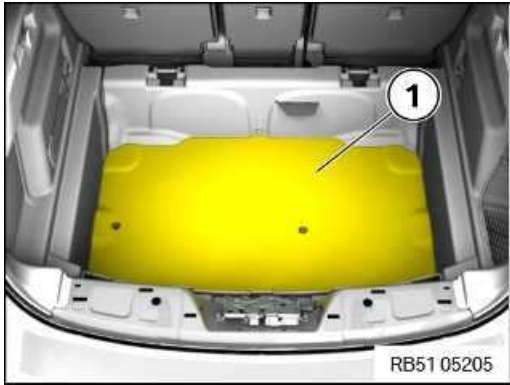
- Check the clips (1) for damage and renew where required.





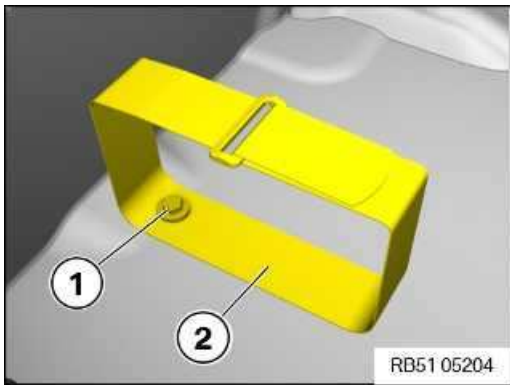
- Clip in the door sill cover strip (2) with the clips (1).

39 – Installing the luggage compartment floor trim panel



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

40 – Inserting the Velcro fastener for the toolkit

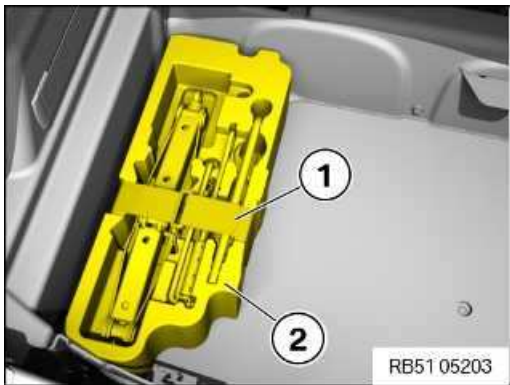


- Insert Velcro fastener (2).
- Tighten down screw (1).

Toolkit hook and loop tape to body

Bolt M6 x 20		Tightening torque	4 Nm
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41 – Install the tool kit

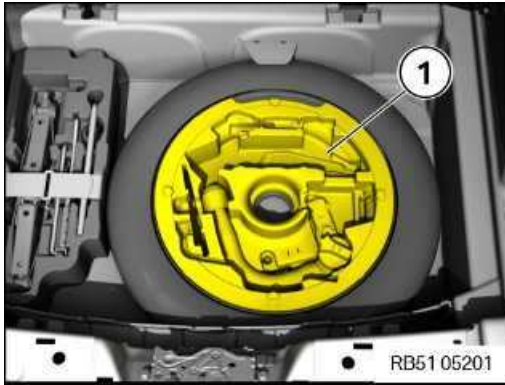


- Install the tool kit (2).
- Close the hook and loop tape (1).

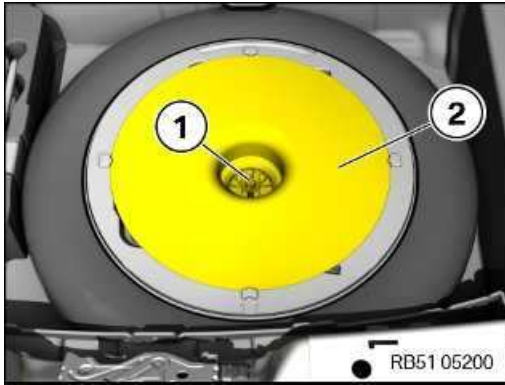
42 – Install the emergency wheel



- Insert compact spare wheel(1).

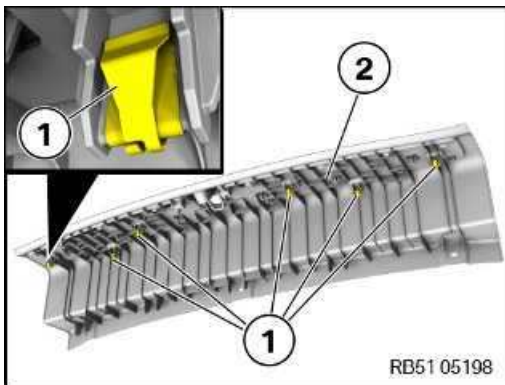


- Insert oddments tray into the compact spare wheel (1).

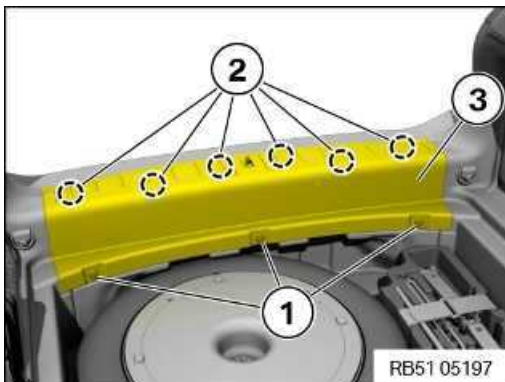


- Insert the lid (2).
- Hand-tighten the bolt (1).

43 – Installing loading edge trim

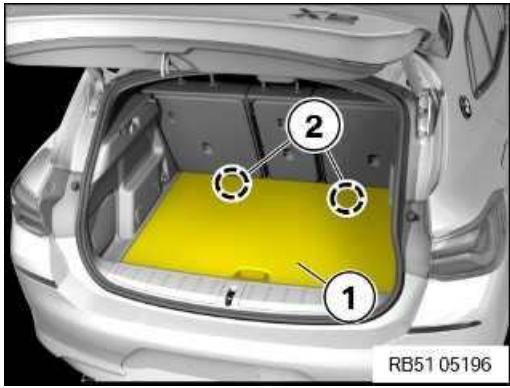


- Check the clamps (1) at the loading edge trim (2) for damage and renew if necessary.



- 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).

44 – Installing the luggage compartment removable panel



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

Additional Information

Overview of Tightening Torques

Head airbag			Used in step 23
			8 Nm
A-pillar trim panel to body			Used in step 28
M5x42 screw	Renew screw	Tightening torque	2,2 Nm
Counter support on body			Used in step 30
Screw		Tightening torque	2,5 Nm
Trim panel of luggage compartment capping			Used in step 34
Self-tapping screw		Tightening torque	4 Nm
Trim panel of luggage compartment capping to body			Used in step 34
Hexagon screw		Tightening torque	1,8 Nm
Lashing eye in luggage compartment			Used in step 35 36
Bolt M8 x 22		Tightening torque	21 Nm
End fitting to body			Used in step 37
Screw	Renew screw.	Tightening torque	42 Nm
Toolkit hook and loop tape to body			Used in step 40
Bolt M6 x 20		Tightening torque	4 Nm

Overview of Special Tools

0 496 569 (00 9 325) Wedge



Common		Used in step 16 18
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

Repair instructions (PRE)	Used in step
Overview of clips and release tools for head airbag fastening	22

General repair instructions	Used in step
72 00 ... Safety regulations for handling components with gas generators	17 28

[illegible]

72 12 060 Removing and installing/replacing the left or right head airbag (for equipment specification without panorama glass roof)



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.



RISK OF DAMAGE

Scratches.

Tools and sharp-edged components can cause scratches.

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

PRELIMINARY WORK

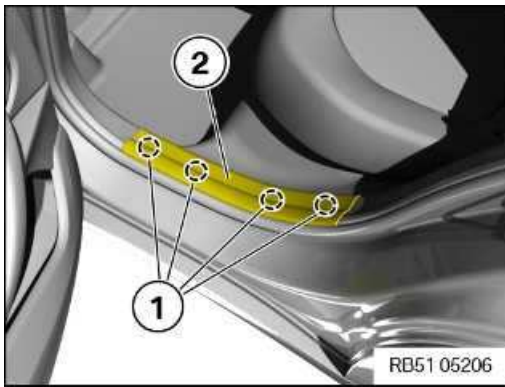
1 – Remove the door sill cover strip on the rear left and right



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).

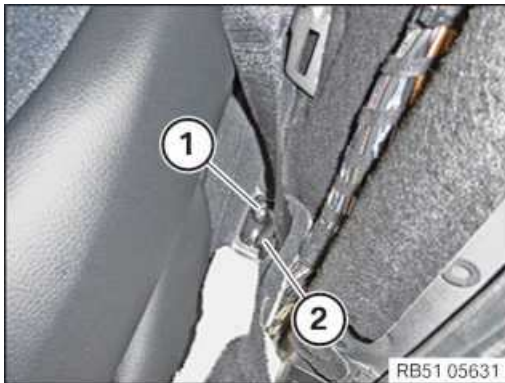
2 – Removing the bottom left and right C-pillar trim panels



NOTICE

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

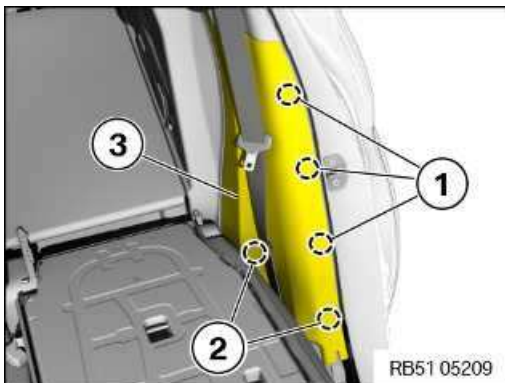
► Remove the bottom C-pillar trim panel



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

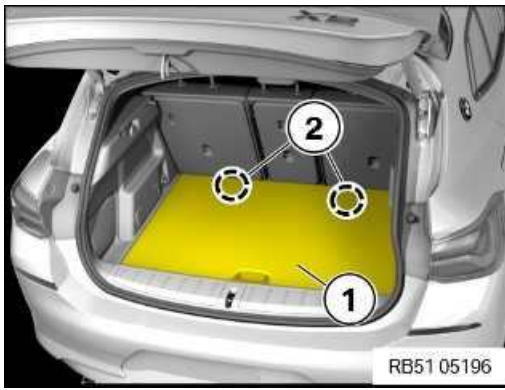


- Release the edge protection (1) in area of the bottom C-pillar trim panel.



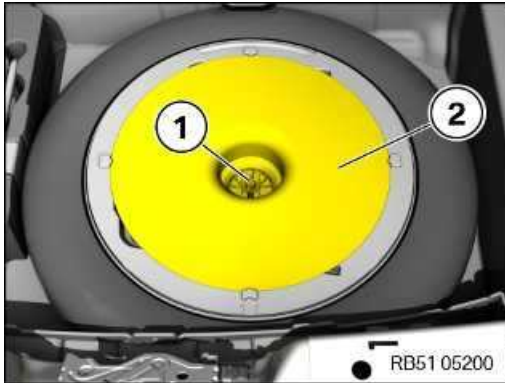
- Clip in the C-pillar trim panel (3) on the bottom with the clamps (1) and the clips (2).
- Detach end fitting and remove the bottom C-pillar trim panel (3).

3 – Removing the luggage compartment removable panel

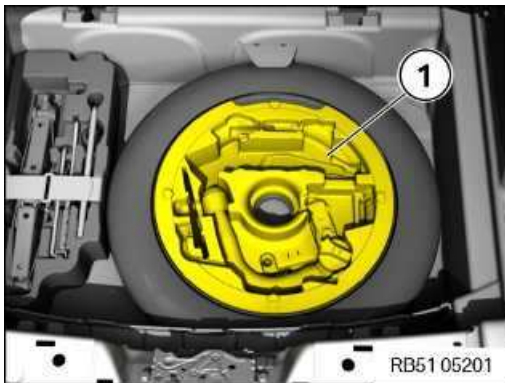


- Raise the luggage compartment removable panel (1) slightly at the handle, detach it from the latch mechanisms (2) and remove it toward the back.

4 – Removing the compact spare wheel



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

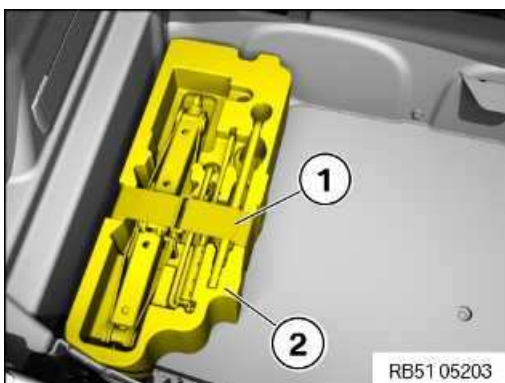


- Remove the oddments tray from the emergency wheel (1).



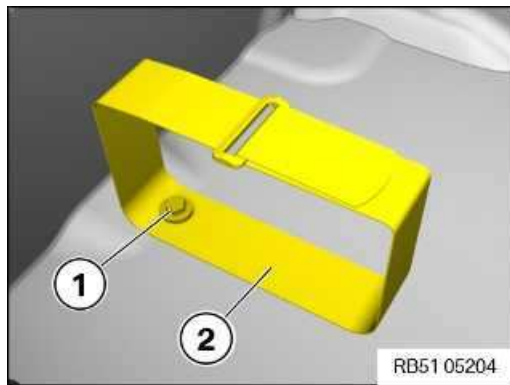
- Remove the emergency wheel (1).

5 – Remove the tool kit



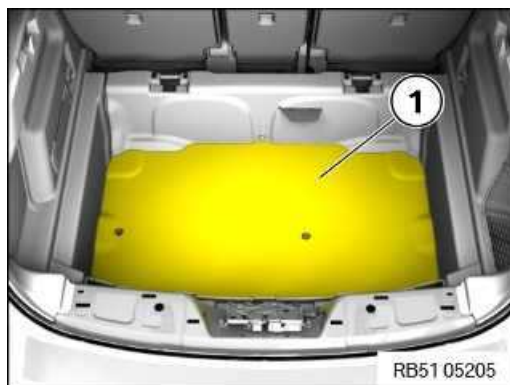
- Open the hook and loop tape (1).
- Remove the tool kit (2).

6 – Remove the hook and loop tape for the tool kit



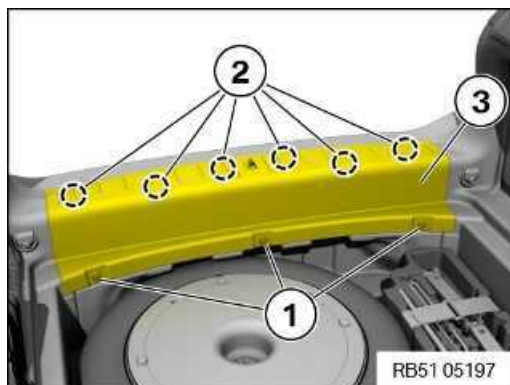
- Loosen screw (1).
- Remove the hook and loop tape (2).

7 – Removing the luggage compartment floor trim panel



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

8 – Removing the loading edge trim

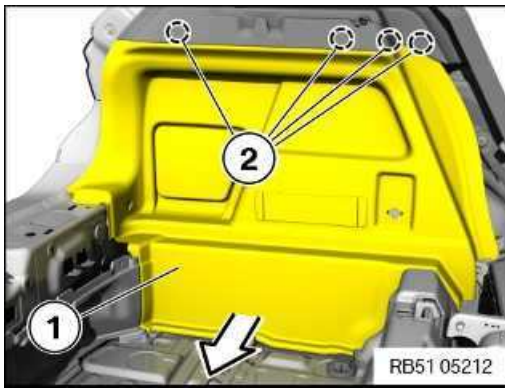


- Loosen the expanding rivet (1).
- Unclip the loading edge trim (3) from the clamps (2) toward the top and remove.

9 – Remove luggage compartment wheel arch trim panel on left.



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

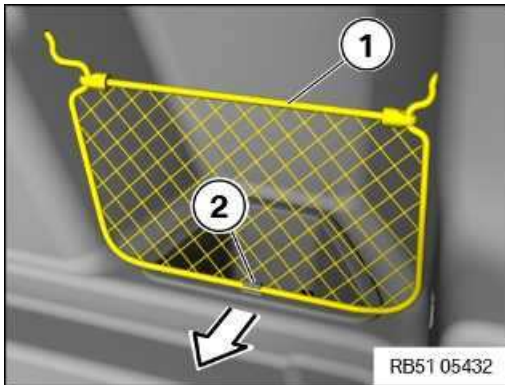


NOTICE

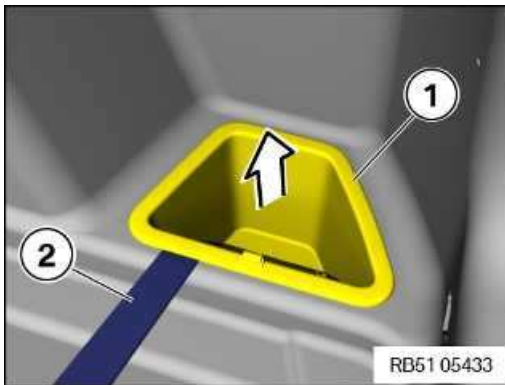
Schematic diagram is for example purposes. Some parts may differ in certain details.

- 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.

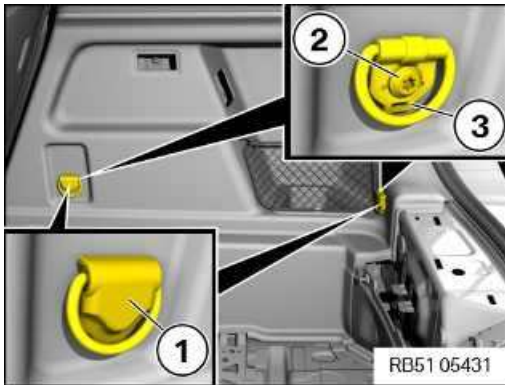
10 – Removing right luggage compartment wheel arch trim panel



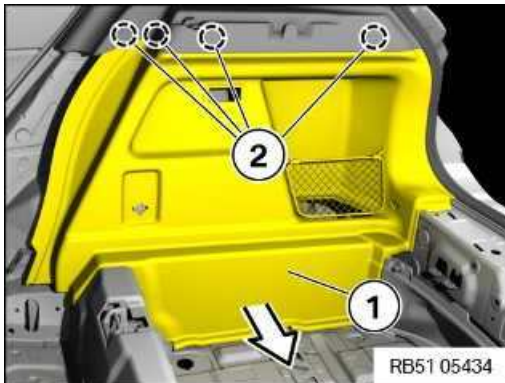
- Release the storage net (1) from the latch mechanism (2) in the direction of arrow and fold up.



- 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.

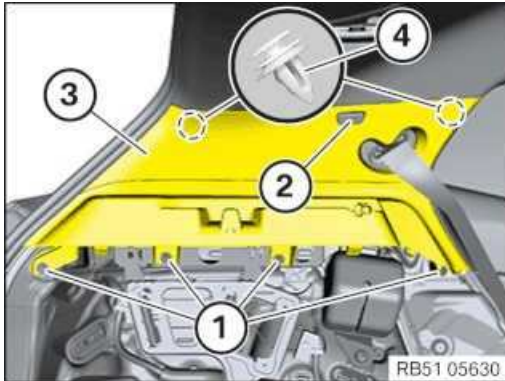
- Pull the luggage compartment wheel arch trim panel (1) on the bottom in the direction of the arrow and guide it out of the guides (2) and the C-pillar trim panel and remove.

11 – 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

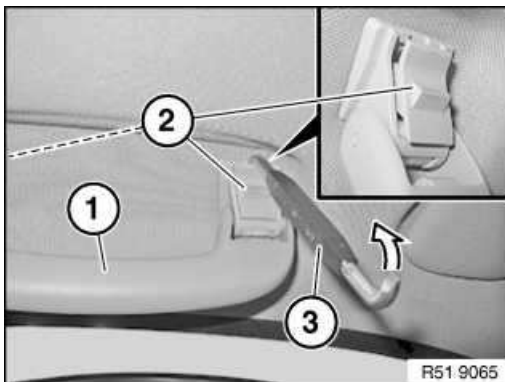
- Loosen screws (1).
- Remove the cover (2) with a suitable plastic wedge and unscrew the screw below it.
- Detach the trim panel of the luggage compartment capping (3) from the clips (4).
- Feed out the end fitting and remove the trim panel of the luggage compartment capping (3).

12 – Removing all grab handles



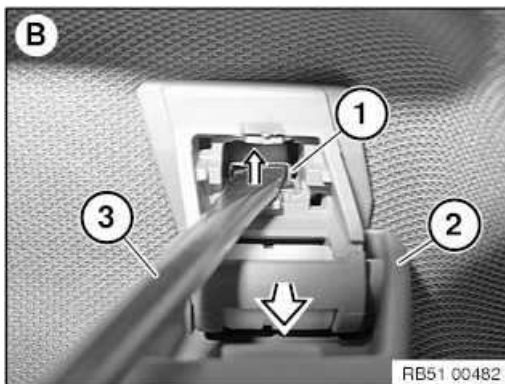
NOTICE

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



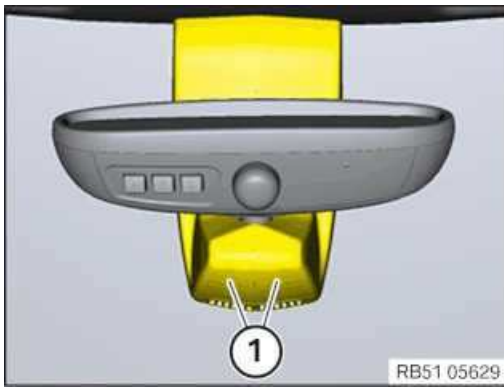
► Removing the grab handle

- 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).

13 – 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.

14 – 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.

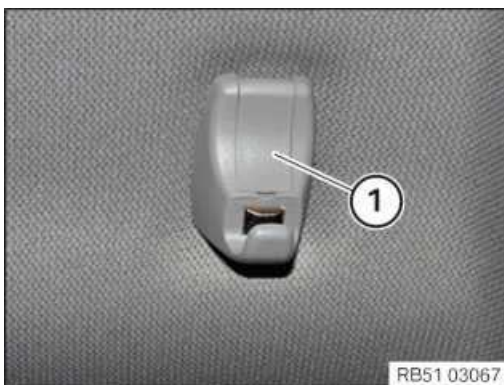
15 – Removing counter supports for sun visor on left and right



NOTICE

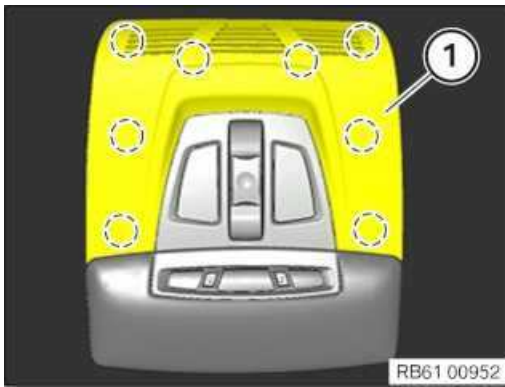
Description is for left component only. Procedure on the right side is identical.

► Remove the counter support for the sun visor

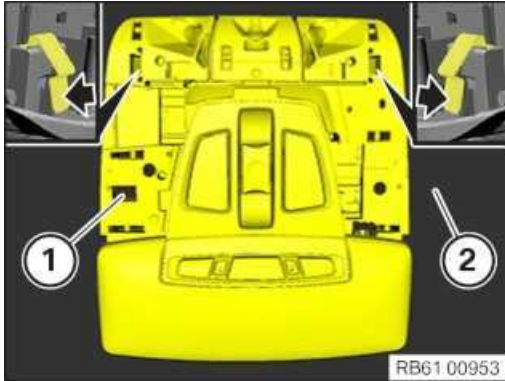


- Open the cover (1) and release the screw underneath.
- Remove the counter support downward.

16 – 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.

17 – 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

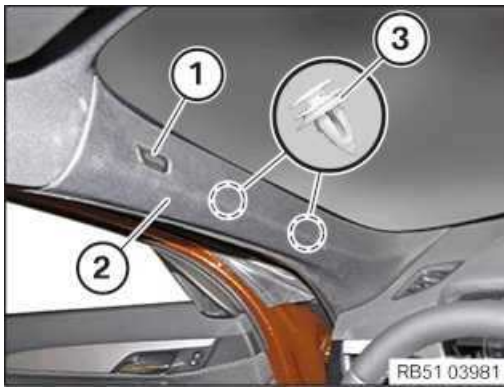


WARNING

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.



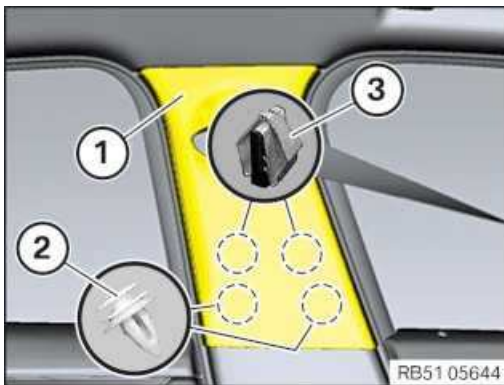
- Unclip cover (1) and unscrew the screw below it.
- Release the A-pillar trim panel (2) from the clips (3) and guide out upwards.

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



NOTICE

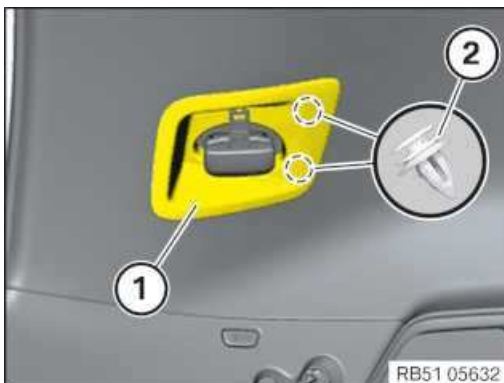
Description is for left component only. Procedure on the right side is identical.



► 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.

19 – 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).

20 – Lower roofliner

Prerequisite

The front seats have been fully adjusted towards the bottom.

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

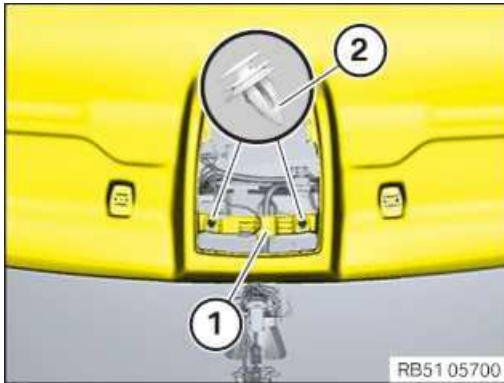


RISK OF DAMAGE

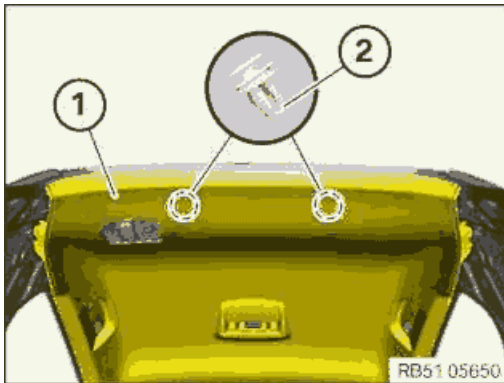
Fold the headlining.

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

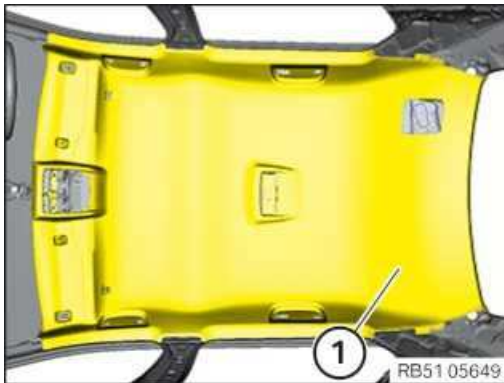
- Carry out tasks with a second person to assist.
- Support the headlining at the front and back.



- 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.

21 – Disconnecting all battery earth leads



- See additional information.

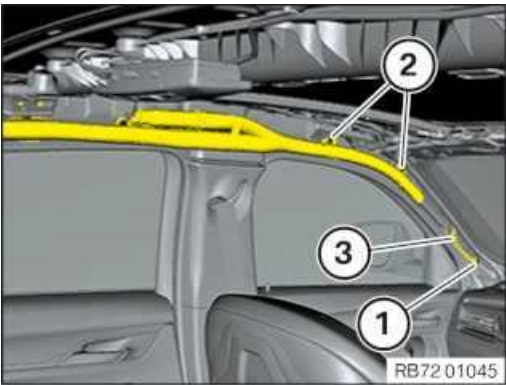
MAIN WORK

22 – Remove head airbag

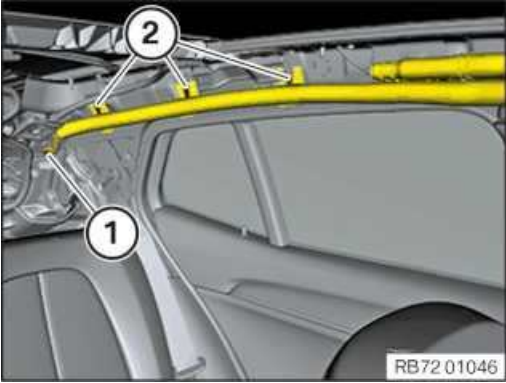


NOTICE

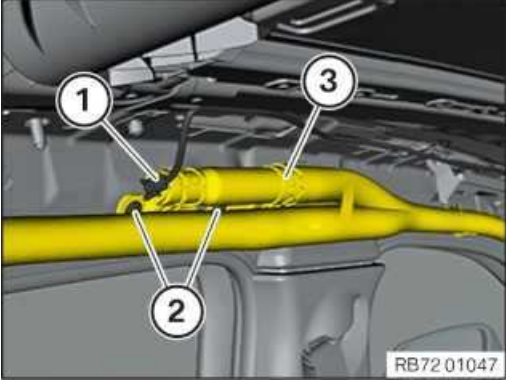
Description is for left component only . Procedure on the right side is identical.



- Loosen screws (1).
- Unlock and detach the clamps (2) with special tool .
- Unclip the clip (3) with a suitable tool.



- Loosen screw (1).
- Unlock and detach the clamps (2) with special tool .



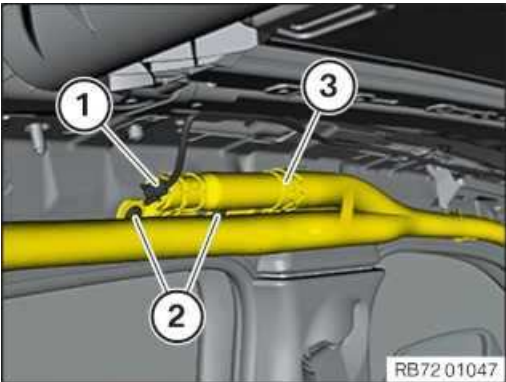
- Unlock plug connection (1) and disconnect.
- Loosen screws (2).
- Guide out the gas generator (3) with the folding pack and remove it.

23 – Mount head airbag



NOTICE

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

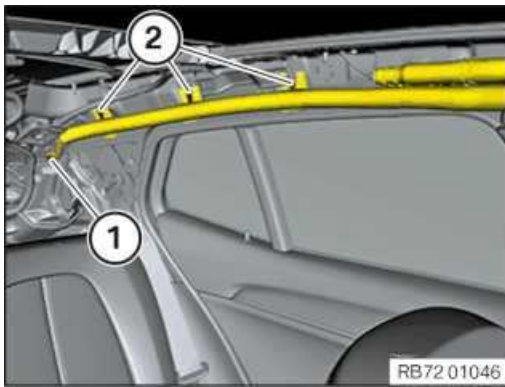


- Thread in gas generator (3) with folding pack and position it.
- Tighten down screws (2).

Head airbag

	8 Nm
--	------

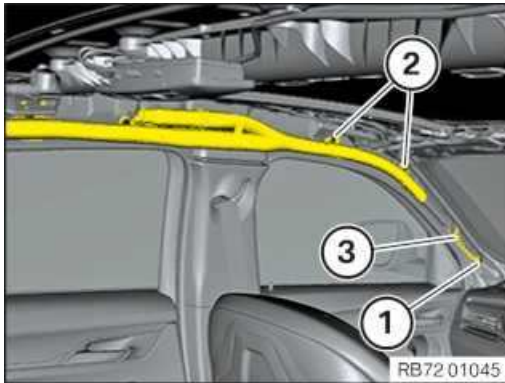
- Connect plug connection (1) and lock.



- Clip in the clamps (2).
- Tighten down screw (1).

Head airbag

8 Nm



- Clip in the clip (3).
- Clip in the clamps (2).
- Tighten the screws (1).

Head airbag

8 Nm

POSTPROCESSES

24 – Disconnecting all battery earth leads



- See additional information.

25 – 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.

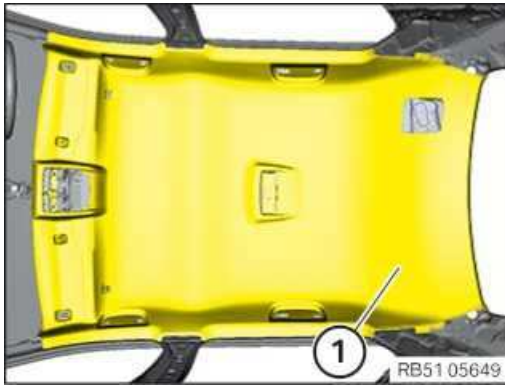


RISK OF DAMAGE

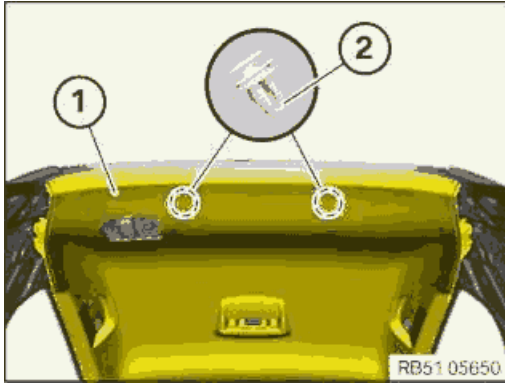
Fold the headlining.

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

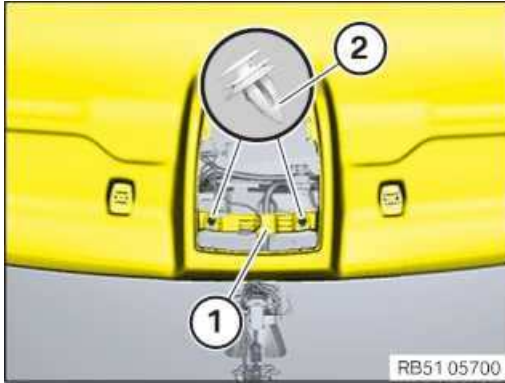
- Carry out tasks with a second person to assist.
- Support the headlining at the front and back.



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

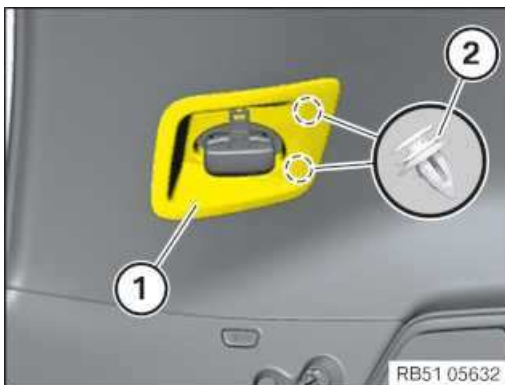


- Clip in the headlining (1) using the clips (2).



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

26 – 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).

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



NOTICE

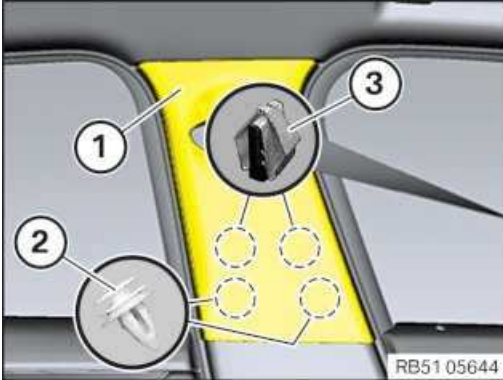
Description is for left component only. Procedure on the right side is identical.

► 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.

28 – 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.

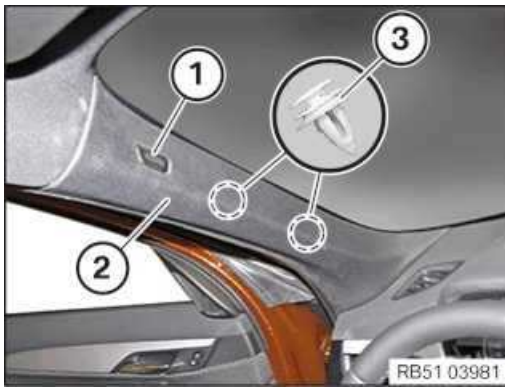
Danger! Life-threatening injuries!

- 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.



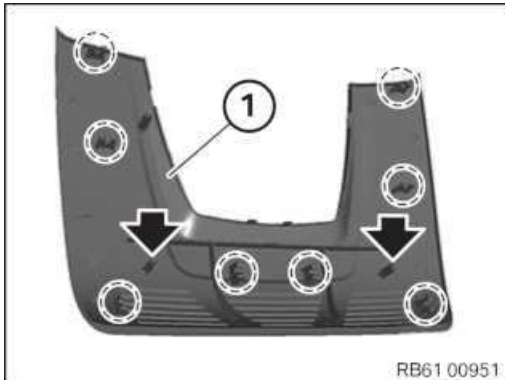
- Thread in the A-pillar trim panel (2) and clip it in at the clips (3).
 - Renew screw.
- Parts:** Screw
- Tighten down screw.

A-pillar trim panel to body

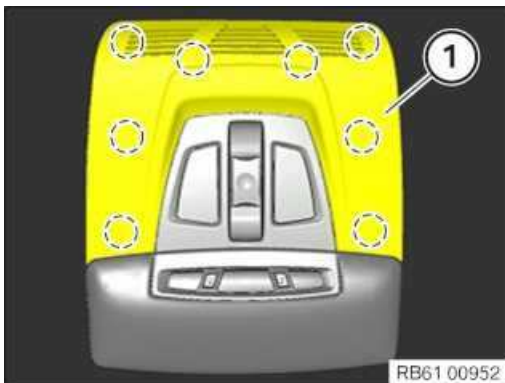
M5x42 screw	Renew screw	Tightening torque	2,2 Nm
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- Clip in the cover (1).

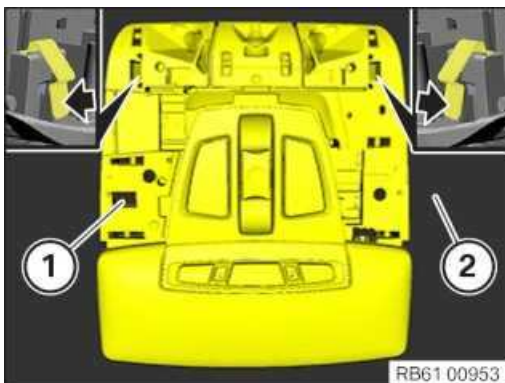
29 – Install the roof function centre



- 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.

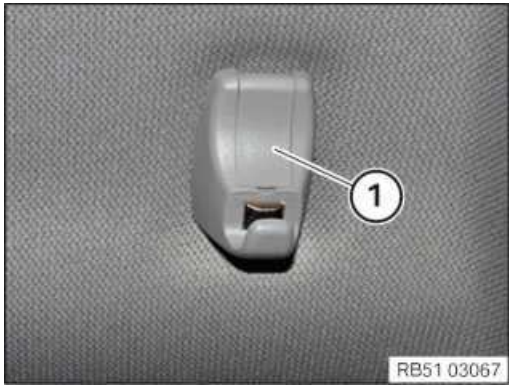
- Connect associated connector.
- Join the roof function centre (1) to the headlining (2).

30 – 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
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31 – Install both sun visors



NOTICE

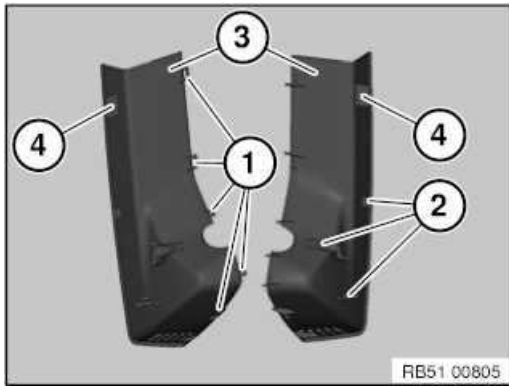
Description is for left component only. Procedure on the right side is identical.



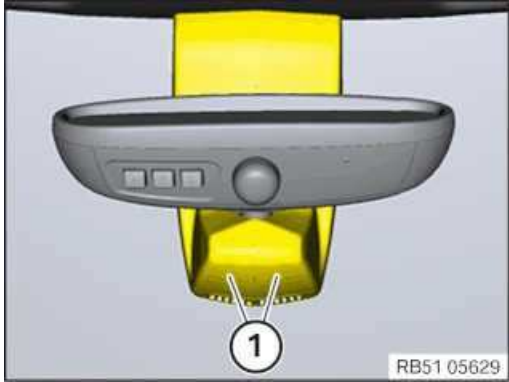
► Install the sun visor

- 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.

32 – 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.



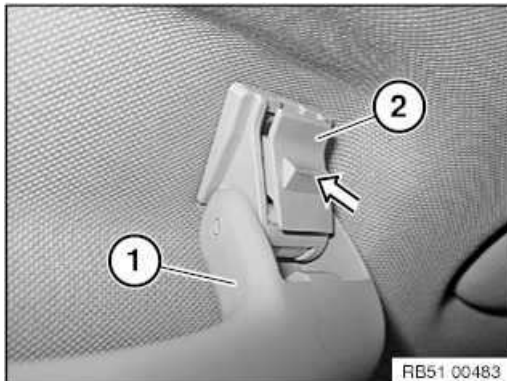
- Install covers on the interior mirror (1) clip together.

33 – Installing all grab handles



NOTICE

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



► Installing the grab handle

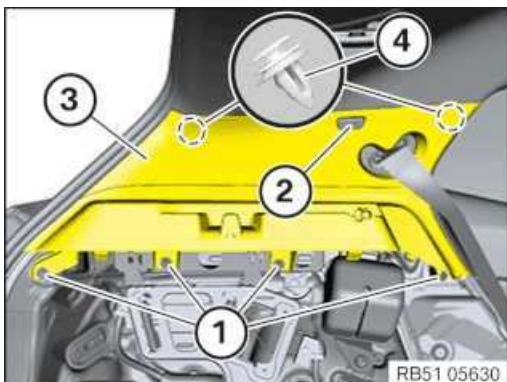
- Insert the grab handle (1) into body.
- Correctly clamp in the grab handle (1), as otherwise the locking inserts (2) on the grab handle (1) cannot correctly engage.
- Engage the locking inserts (2) on both sides of the grab handle (1).

34 – 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

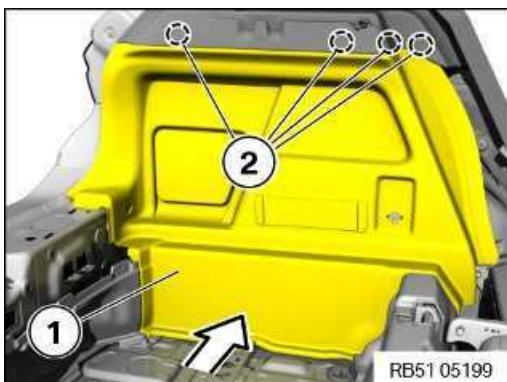
Self-tapping screw		Tightening torque	4 Nm
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- Tighten the screws (1).

Trim panel of luggage compartment capping to body

Hexagon screw		Tightening torque	1,8 Nm
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35 – 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.



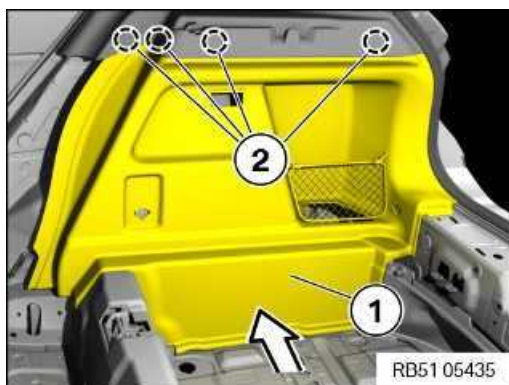
- Position the lashing eyes (3) and tighten the screws (2).

Lashing eye in luggage compartment

Bolt M8 x 22		Tightening torque	21 Nm
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- Clip in the covers (1).

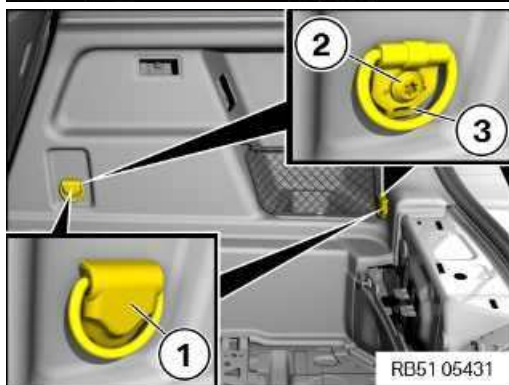
36 – Installing the luggage compartment wheel arch trim panel on the right



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).

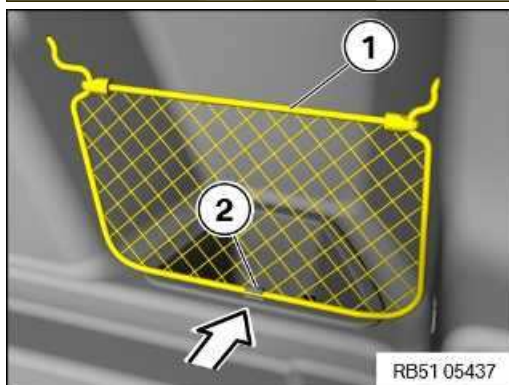
Lashing eye in luggage compartment

Bolt M8 x 22		Tightening torque	21 Nm
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- 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.

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

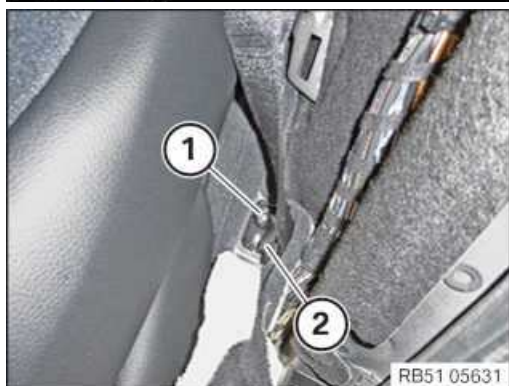
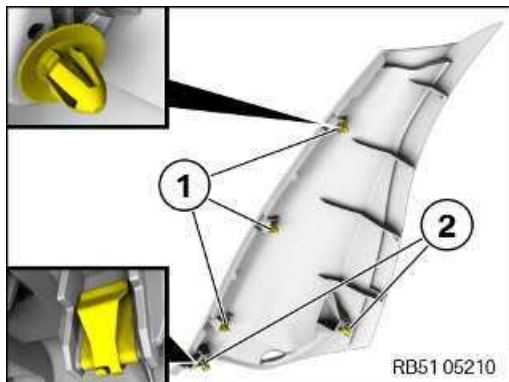


NOTICE

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.

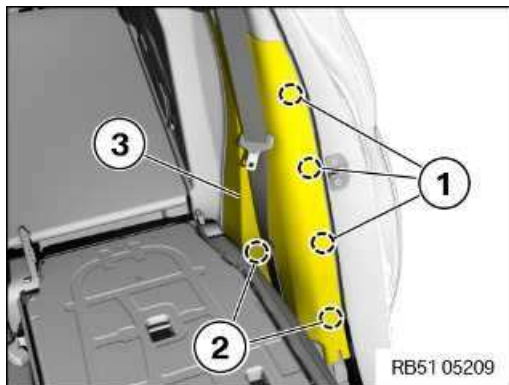


- Insert the end fitting (2) through the C-pillar trim panel.
- Mount the end fitting (2) and tighten the screw (1).

End fitting to body

Screw	Renew screw.	Tightening torque	42 Nm
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- 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.

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

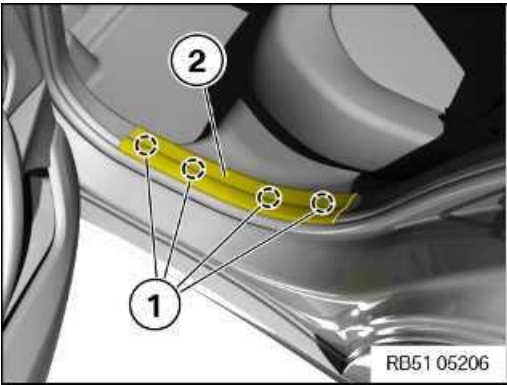
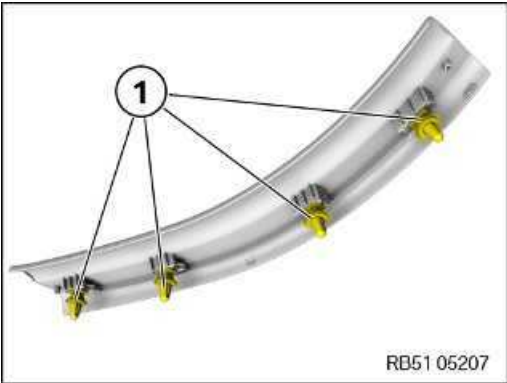


NOTICE

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

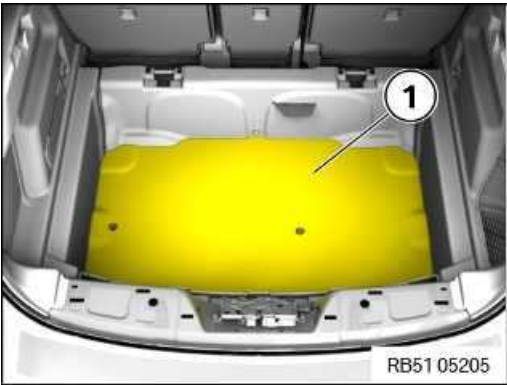
► Installing the rear door sill cover strip

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



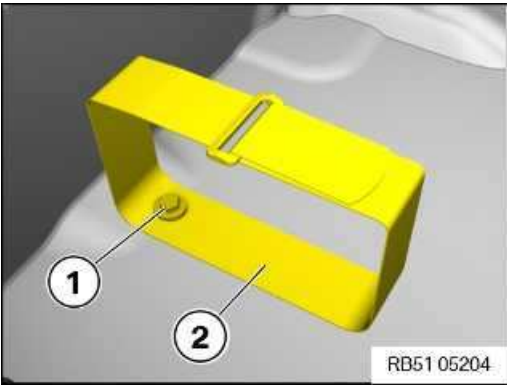
- Clip in the door sill cover strip (2) with the clips (1).

39 – Installing the luggage compartment floor trim panel



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

40 – Inserting the Velcro fastener for the toolkit

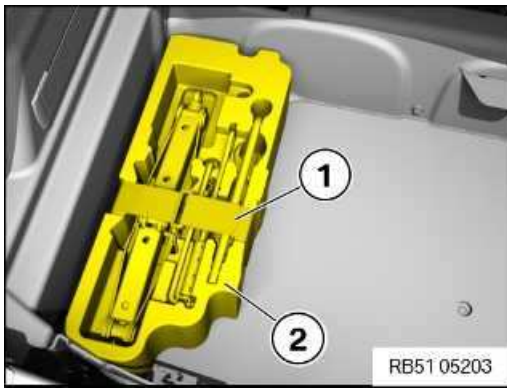


- Insert Velcro fastener (2).
- Tighten down screw (1).

Toolkit hook and loop tape to body

Bolt M6 x 20		Tightening torque	4 Nm
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41 – Install the tool kit

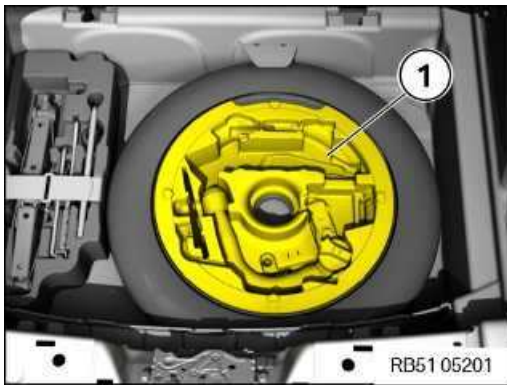


- Install the tool kit (2).
- Close the hook and loop tape (1).

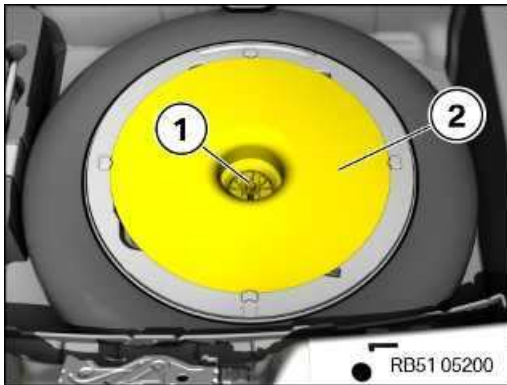
42 – Install the emergency wheel



- Insert compact spare wheel(1).

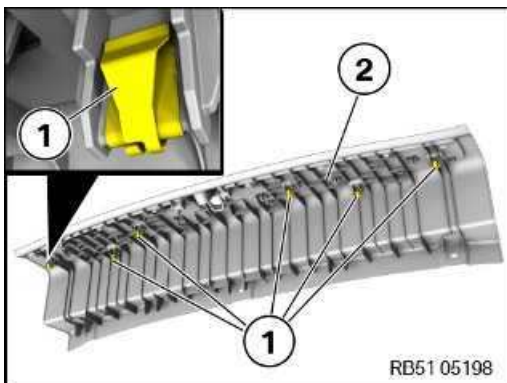


- Insert oddments tray into the compact spare wheel (1).

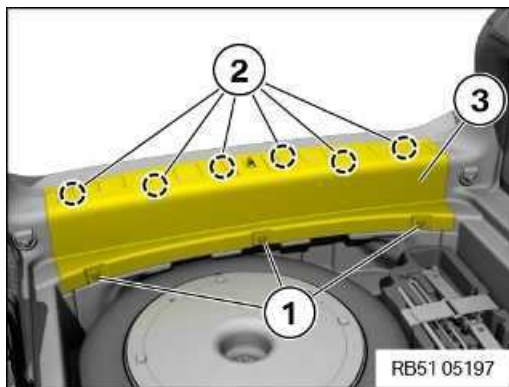


- Insert the lid (2).
- Hand-tighten the bolt (1).

43 – Installing loading edge trim

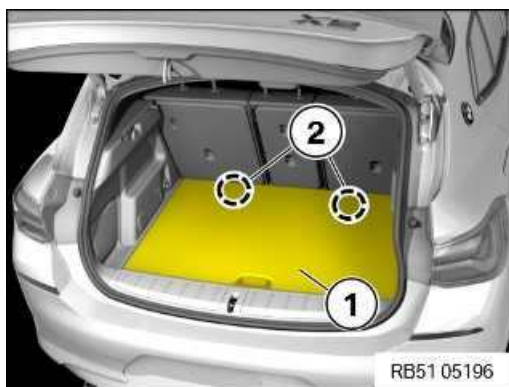


- Check the clamps (1) at the loading edge trim (2) for damage and renew if necessary.



- 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).

44 – Installing the luggage compartment removable panel



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

Additional Information

Overview of Tightening Torques

Head airbag

Used in step [23](#)

			8 Nm
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A-pillar trim panel to body

Used in step [28](#)

M5x42 screw	Renew screw	Tightening torque	2,2 Nm
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Counter support on body

Used in step [30](#)

Screw		Tightening torque	2,5 Nm
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Trim panel of luggage compartment capping

Used in step [34](#)

Self-tapping screw		Tightening torque	4 Nm
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Trim panel of luggage compartment capping to body

Used in step [34](#)

Hexagon screw		Tightening torque	1,8 Nm
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Lashing eye in luggage compartment

Used in step [35](#) [36](#)

Bolt M8 x 22		Tightening torque	21 Nm
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End fitting to body

Used in step [37](#)

Screw	Renew screw.	Tightening torque	42 Nm
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Toolkit hook and loop tape to body

Used in step [40](#)

Bolt M6 x 20		Tightening torque	4 Nm
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Overview of Special Tools

**Common**

Used in step 16 18

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**Repair instructions (PRE)**

Used in step

Overview of clips and release tools for head airbag fastening	22
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General repair instructions

Used in step

72 00 ... Safety regulations for handling components with gas generators	17 28
72 00 ... Safety regulations for handling components with gas generators	

Repair instructions

Used in step

61 20 900 Disconnecting and connecting battery earth lead	21 24
61 20 900 Disconnecting and connecting battery earth lead	21 24
61 20 900 Disconnecting and connecting battery earth lead	21 24
61 20 900 Disconnecting and connecting battery earth lead	21 24
61 20 900 Disconnecting and connecting battery earth lead	21 24
61 20 900 Disconnecting and connecting battery earth lead	21 24
61 20 900 Disconnecting and connecting the battery earth lead (all battery earth leads)	21 24
61 20 900 Disconnecting and connecting the battery earth lead (all battery earth leads)	21 24
61 20 900 Disconnecting and connecting battery earth lead	21 24
61 20 900 Disconnecting and connecting the battery earth lead (all battery earth leads)	21 24
61 20 900 Disconnect and connect battery earth lead (Plug-in Hybrid Electric Vehicle)	21 24
61 20 900 Disconnecting and connecting battery earth lead	21 24
61 20 900 Disconnecting and connecting battery earth lead	21 24
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61 20 900 Disconnecting and connecting the battery earth lead (all battery earth leads)	21 24
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61 20 900 Disconnecting and connecting battery earth lead	21 24

61 00 ... **Repairing airbag cables**

Important!

Only repair those cables which show visible signs of damage. In the event of visible damage, make sure there is only one cable repair in effect after the repair work. If no visible damage can be identified, the entire cable must be replaced. When carrying out repairs to the airbag wiring harness, you must use the spare parts offered in the Electronic Parts Catalogue (EPC).

Safety regulations for [handling components of airbag system](#).

[Instructions for disconnecting and connecting battery](#).

In event of non-visible damage to wiring harness:

Disconnect plug connection on airbag module or on adapter plug. It is absolutely vital to disconnect the contacts in succession as there is a risk of mixing up (similar parts)! Cut through one cable after the other at an appropriate position, do not under any circumstances cut through both cables at the same time. Insulate cables remaining in wiring harness with insulating tape. Now disconnect plug connection on airbag control unit. Unpin contacts. Cut through one cable after the other at an appropriate position and insulate with insulating tape, do not under any circumstances cut through both cables at the same time. Pin contacts of repair cable for airbag control unit in control unit plug, assignment of repair cables is relevant. Lay repair cable in vehicle parallel to existing airbag lead. Now pin in contacts for airbag control unit or contacts of adapter plug, assignment of repair cables is relevant. Cut off excess length of repair cable in proximity (visible area) of airbag module or of adapter plug. Twist open cables. With the butt connectors and heat-shrink tubings in the Electronic Parts Catalogue (EPC), reconnect the cables with the same cable colours. Twist cables again, open length (twist) must not exceed 40 mm. Secure interface (heat-shrink tubing) with insulating tape to prevent cables from twisting open.

Instructions for cutting off, insulating, crimping cables, installing and removing contacts:

[Cutting off and insulating cables](#).

[Repairing a plug connection using butt connectors](#).

[Installing and removing contacts](#).

In event of visible damage:

Expose cable at damaged areas. Cut through one cable after the other at an appropriate position and insulate cables no longer required in wiring harness with insulating tape, do not under any circumstances cut through both cables at the same time. Now, depending on the scope of work, unpin contacts either on airbag control unit/airbag module or on adapter plug. Cut off unpinned cables. Insulate cables remaining in wiring harness with insulating tape. Now pin in contacts of repair cable, assignment of repair cables is relevant. Lay repair cable in vehicle parallel to existing airbag lead up to separation point. Cut off excess length of repair cable. Twist open cables. Connect cables with butt connectors and heat-shrink tubings in Electronic Parts Catalogue (EPC), assignment of repair cables is relevant. Twist cables again, open length (twist) must not exceed 40 mm. Secure interface (heat-shrink tubing) with insulating tape to prevent cables from twisting open.

Instructions for cutting off, insulating, crimping cables, installing and removing contacts:

[Cutting off and insulating cables](#).

[Repairing a plug connection using connectors](#).

[Installing and removing contacts](#).

72 Safety information and general information

Notes on safety

- > [Safety regulations](#) for handling airbag modules and pyrotechnic belt tensioners
- > [Notes on scrapping](#) vehicles with gas generators

Handling electrical system and electronics

- > [Unlocking/locking airbag plug connections](#)
- > [Repairing airbag lines](#)
- > [Handling optical fibres](#)

Check

- > [Check seat belt](#)
- > [Checklist for seat belt](#)

Airbag system

- > See diagnosis system for FUB and check
- > [Deactivating airbags](#)
- > [Procedure after airbag deployment](#) .

Active pedestrian protection

- > [Procedure after actuator triggering](#)

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

It is essential to comply with the regulations as specified in the law relating to the use of explosives when working on airbag units and seat belt tensioners.

Airbags, seat belt tensioners etc. are pyrotechnical objects. Pyrotechnical objects are assigned to different danger classes on the basis of the quantity of propellant that they contain. The assignment can be ascertained from the identification marking on the product:

Attention!

Failure to comply with the warning notices and repair instructions for gas generator components can cause accidental deployment and result in injury and vehicle damage!

This applies in particular to the following components:

- Airbag modules (driver's/front passenger airbags, side airbags)
- Seat belt tensioner
- Head airbag
- Active knee protection
- Active head restraint
- Safety battery terminal

1. Regulations

The regulations quoted in the following refer to the Federal Republic of Germany.

In all other countries, the relevant legislation and regulations must be observed in each case. Country-specific legal regulations that go beyond this information or court decisions based thereon must be followed in each case or given precedence over these regulations.

- Pyrotechnical restraint systems are subject to danger class PT1
- Gas generators are pyrotechnical objects belonging to danger class T1

Handling, transporting and storing non-fired gas generators are subject to the "Explosive Materials Act" (law relating to the use of explosives dated 13/09/1976).

The relevant trade supervisory authority must be notified at least 2 weeks before pyrotechnical objects are handled for the first time. In this process, notify the person responsible at the relevant authority (e.g. dealership owner, holder of general power of attorney, technical supervisor) in writing. A certificate of qualification, i.e. specific training, is not required for the person responsible.

2. Dismantling and installation

- Checking and installation work must be carried out by professionally trained personnel only.
- Work on airbag system components must only ever be carried out with a disconnected vehicle battery, covered negative terminal and disconnected plug connection of the cable leading to the gas generator. Observe the specified waiting period if merely the vehicle battery is disconnected:
 - 30 min. for vehicles up to 9/93
 - 1 min. for vehicles from 9/93 onward
- In the event of breaks in work, a component with a gas generator that has been removed must be secured against access by other persons.
- Individual components must never be repaired. Instead, always replace them.
- Do not treat airbag system components with cleaning agents or grease.
- Components of the airbag system must not be exposed to temperatures in excess of 75 °C.
- Airbag system components, including electronic diagnostic components, which have been dropped from heights in excess of 0.5 m must not be reinstalled in the vehicles.
- Do not remove components of the airbag system from the original packaging until immediately before they are to be installed in the vehicle.

- Before installing, subject components such as housing, connector pins ,etc. of the airbag system (including diagnosis electronics) to a visual inspection for damage and replace if necessary.
- Airbag system components may only be electrically tested while they are installed and only with the diagnosis system.
- **Danger of injury:** The airbag module may only be set down with the airbag itself facing *upwards*. Otherwise the gas generator may be propelled upwards upon potential ignition of the gas generator.
- Do not point the ignition squib of a gas generator at other persons.
- Components with gas generators must not be fired while they are removed. They must be disposed of by special disposal companies or returned in the packaging of the new parts.
- When carrying out straightening and welding work with an electric welder:
 - Disconnect the vehicle battery
 - Cover negative terminal (post)
- Avoid all contact with the skin when removing a fired airbag module - wear gloves. Wash with water after contact with the skin.

3. Transport

- Components with gas generators must be sent off in the packaging of the new components.

4. Storage

- Observe the regulations of the relevant trade supervisory authority and the applicable national regulations.

72 12 ... Unlocking/locking airbag plug connections



Warning!

[Read and comply with](#) safety regulations for handling airbag modules and pyrotechnical belt tensioners.



Attention!

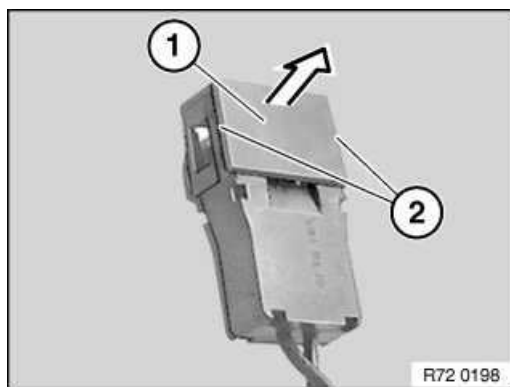
An airbag plug connection must be replaced if it is damaged.

Sourcing reference for airbag repair instructions (with plug connection), see Electronic Parts Catalogue.



Following versions of plug connections on airbag module/gas generator are possible:

- Airbag plug connection on gas generator/airbag module is offset by 90°
- Airbag plug connection on gas generator/airbag module is straight (3 versions)

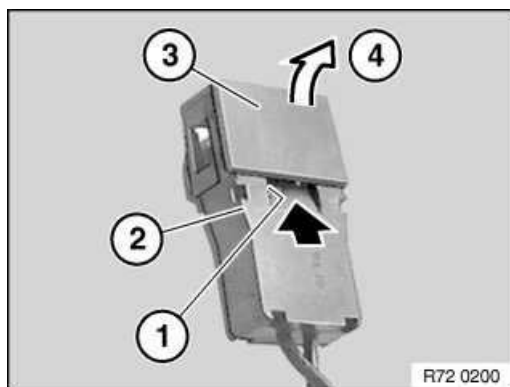


Airbag plug connection on gas generator/airbag module offset by 90°:

There are two ways of unlocking this airbag plug connection on the gas generator/airbag module:

Method 1:

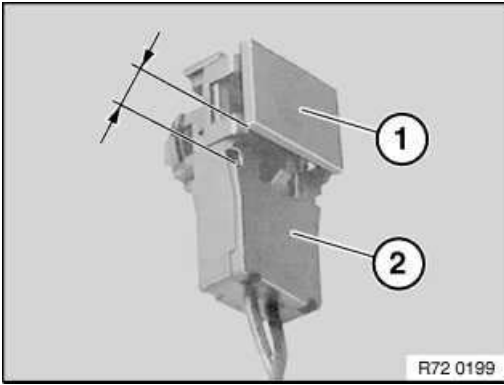
Simultaneously pull cover (1) upwards at lugs on left and right (2).



Method 2:

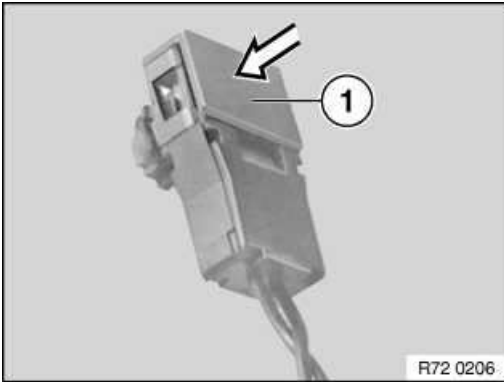
Insert a narrow screwdriver into recess (1) in housing (2).

Carefully prise cover (3) off (4).



Cover (1) is not positioned higher than housing (2).

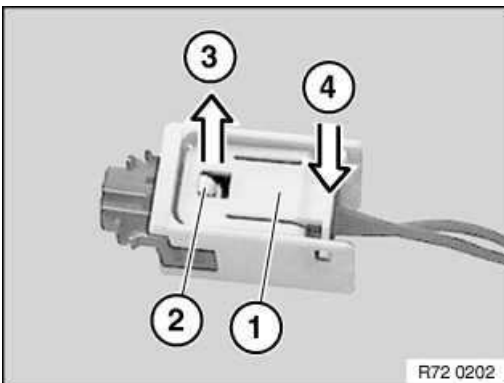
The airbag plug connection is unlocked and can now be detached from the gas generator/airbag module.



Installation note:

After attaching airbag plug connection to gas generator/airbag module, press cover (1) downwards until it rests flat on housing.

Check that it catches properly.



Airbag plug connection on gas generator/airbag module is straight (2 versions)

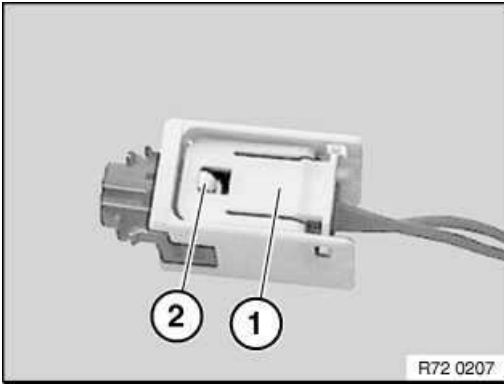
Version 1:

Press locking/unlocking plate (1) at edge (4).

Locking/unlocking plate (1) snaps upwards at opposite edge (3) and releases detent lug (2).



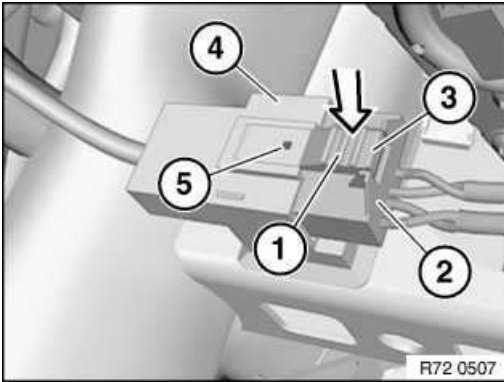
The airbag plug connection is unlocked and can now be detached from the gas generator/airbag module.



Installation note:

After attaching airbag plug connection to gas generator/airbag module, check whether detent lug (2) is visible in opening of locking/unlocking plate (1).

Only if the detent lug (2) is visible will the airbag plug connection gas generator/airbag module be correctly engaged.

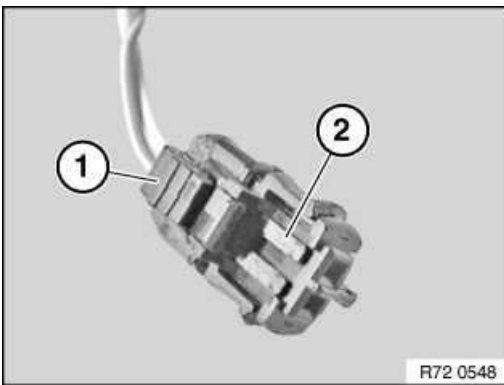


Version 2:

Press locking/unlocking plate (1) on edge (3) and pull plug (2) out of plug housing (4).

Installation note:

Only if the detent lug is visible in opening (5) will the gas generator/airbag module plug connection be correctly engaged.



Version 3:

Press the lock (1) and pull out the connector (2) up to initial engagement position.

Detach connector (2) from firing pellet.

Installation note:

Insert plug connection in initial engagement position in gas generator/airbag module and engage in final engagement position.

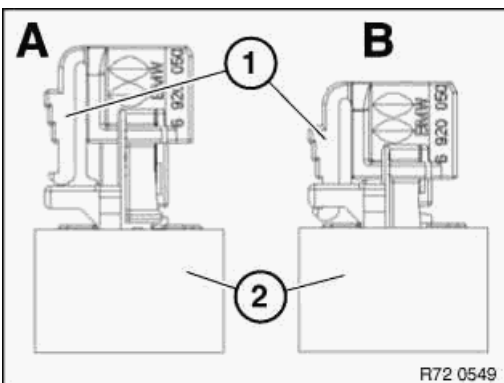
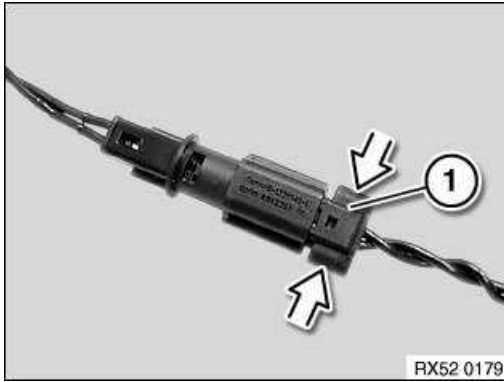


Illustration of version 3 with gas generator:

- A. Initial engagement position
- B. Final engagement position
- 1. Lock
- 2. Gas generator

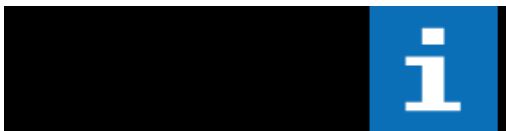


Version 4 - crash-active headrest:

Press locking clip at edge and disconnect plug (1).

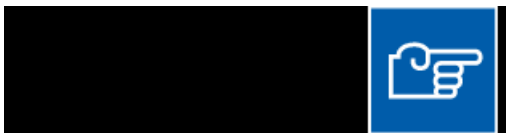
Installation note:

Check for correct engagement.



Screw securing adhesive is a means of preventing a screwed connection from being loosened by external influences.

Once the screw has been coated with adhesive, the adhesive remains inactive until such time that it is activated by the encapsulation breaking when the screw is inserted and then cures (hardens) at room temperature.



Installation note:

- Screw connection must be completed within 20 mins. (start of curing)
- Microencapsulated screws must not be retightened
- Thread of nut must be cleaned beforehand in event of repeated use

72 Safety information and general information

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