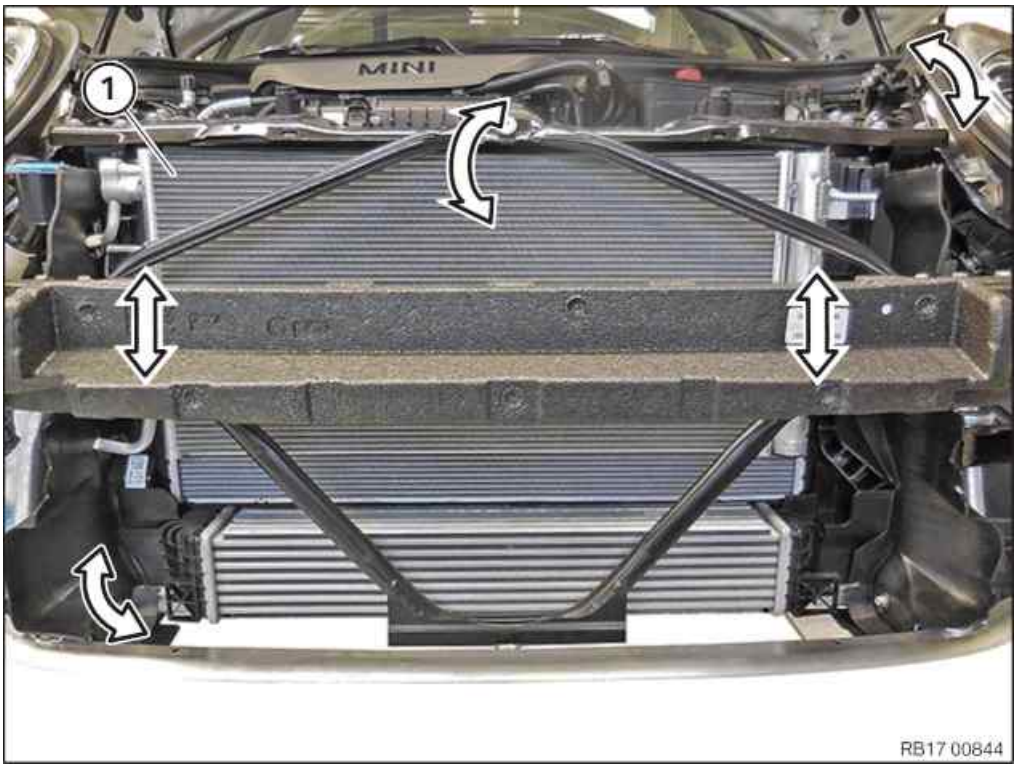
17 11 ... Release the cooling module if there is vibration at the steering wheel or seat rail

Note:
A deformed cooling module could be the cause for vibrations and interference noises in the motor vehicle when the engine is idling or during slow journeys (up to 2 km/h).

An incorrectly installed cooling module could also be cause for vibrations and interference noises. This means that the cooling module lies at the neighbouring components.

Ensure that the individual components of the cooling module are installed correctly and ensure sufficient distance between the cooling module and the other components.

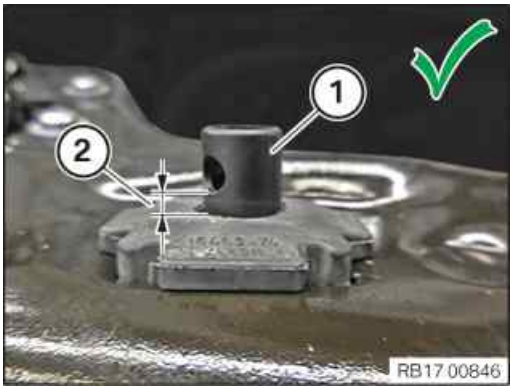


If the cooling module (1) is deformed:

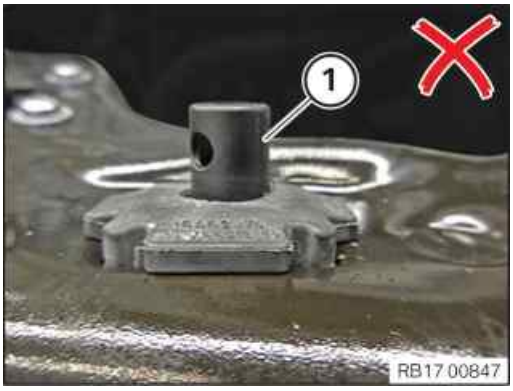
- the installation position of the cooling module may be too high or low
- the installation position of the cooling module may be bent
- the cooling module may be tilted backward or forward

If the cooling module is incorrectly installed, the cooling module may lie on other components and generate vibrations or interference noises.

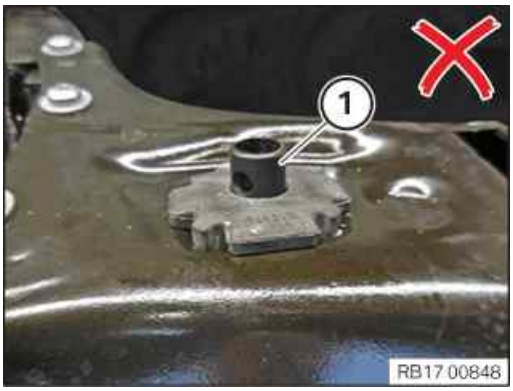
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If the cooling module is correctly installed, the centring pin (1) on the left and right juts out by around 2 mm (2) from the rubber mount.



If the centring pin (1) juts out too far from the rubber mount, the cooling module is installed too high or aslant.



If the centring pin (1) fits too deep into the rubber mount, the cooling module is installed too low or aslant.

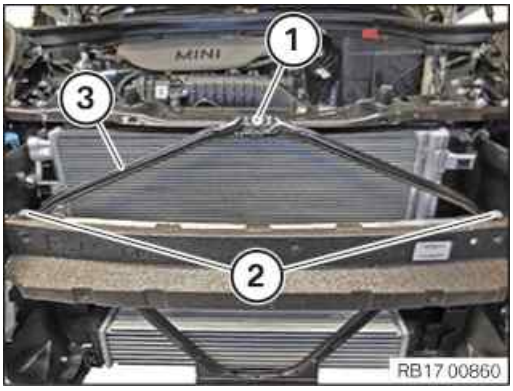


If the centring pin (1) fits aslant in the rubber mount, the cooling module is installed tilted backward.

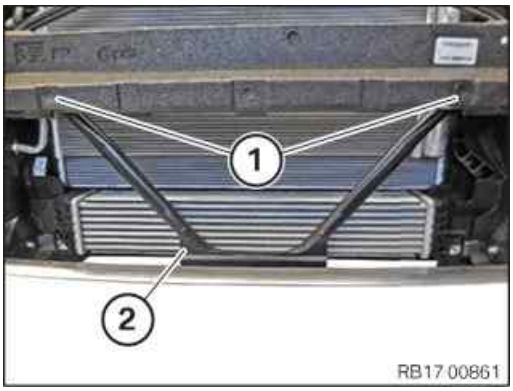
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Required preliminary work to release the cooling module:

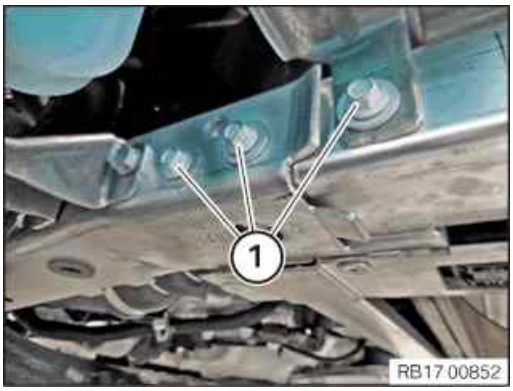
- Remove intake filter housing
- Remove intake neck
- Remove front underbody protection
- Remove front bumper panel
- **F48 only:**
  Remove air duct radiator



Release screw (1).
Unfasten screws (2).
Remove strut (3).

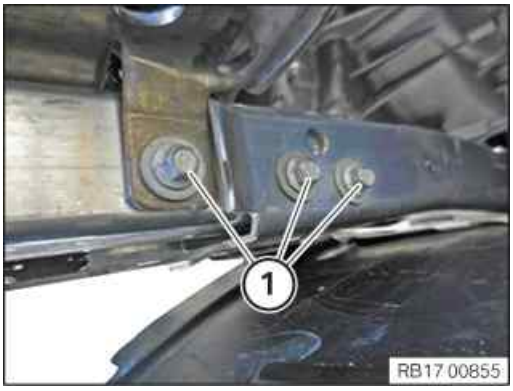


If fitted:
Release screws (1).
Remove strut (2).

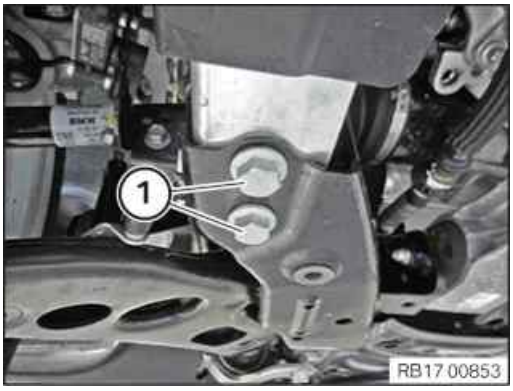


Release screws (1), right on the bottom cross connection.

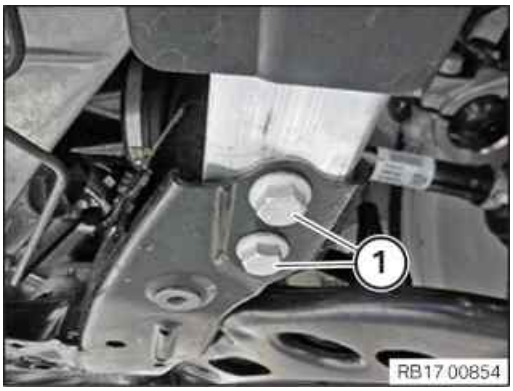
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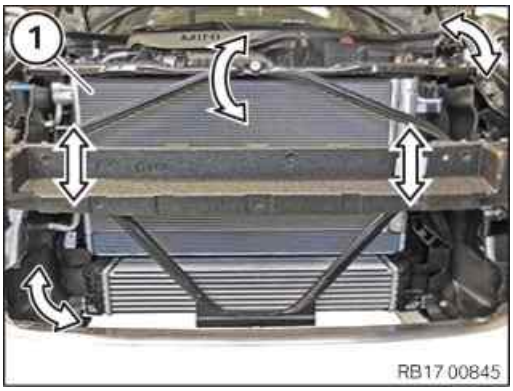
Release screws (1), left on the bottom cross connection.



Release screws (1) from front axle support and adapter deformation element, right.

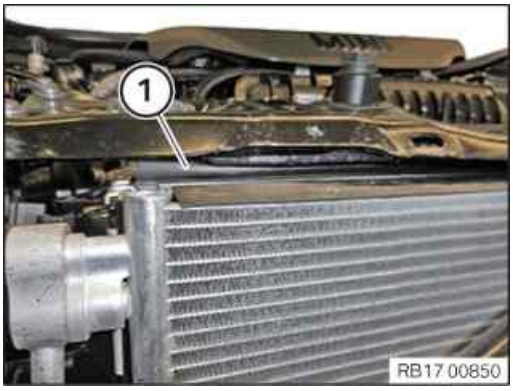


Release screws (1) from front axle support and adapter deformation element, left.

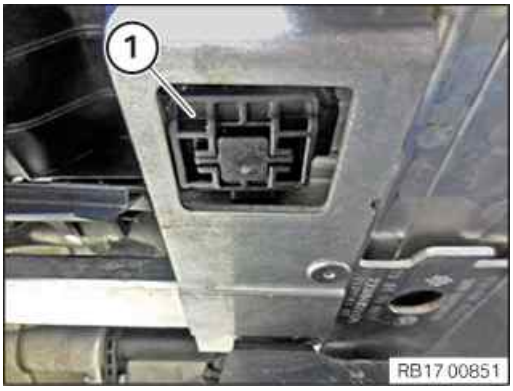


Align cooling module with a second person and release.

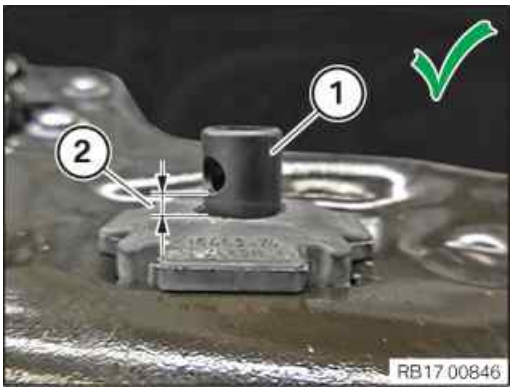
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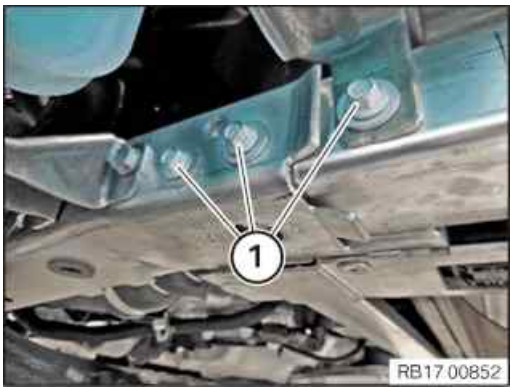
Ensure that the gasket (1) between the cooling module and bridge is not crushed.



Ensure that the holder for the cooling module does not lie on the deformation element.



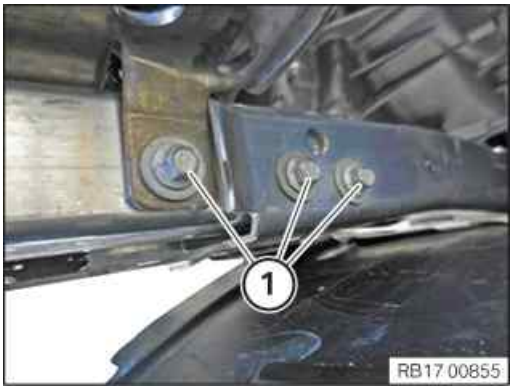
Align cooling module with a second person in such a way that the centring pin (1) juts out in the centre by about 2 mm on the left and right from the rubber mount. **The cooling module must be held tight by the second person in the aligned position till all screws are tightened**.



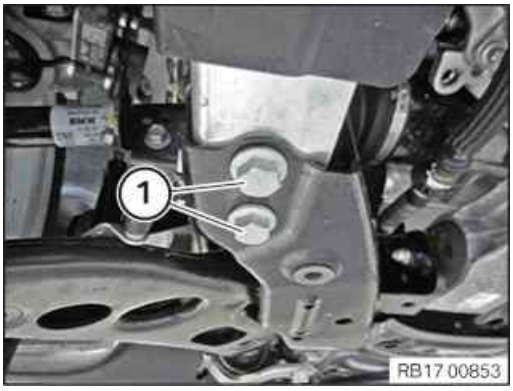
Replace right screws (1) on the cross connection and tighten.

Tightening torque 17 10 9AZ.

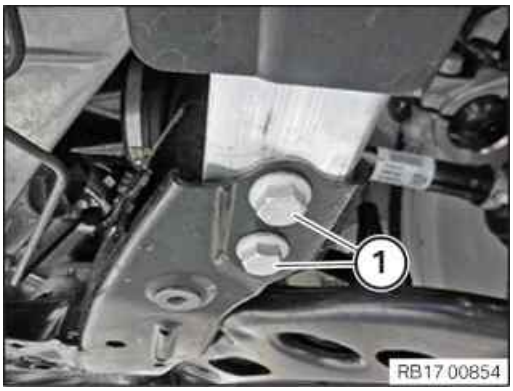
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Replace left screws (1) on the cross connection and tighten.
Tightening torque 17 10 9AZ.



Tighten screws (1) on front axle support and adapter deformation element.
Tightening torque 31 11 3AZ.



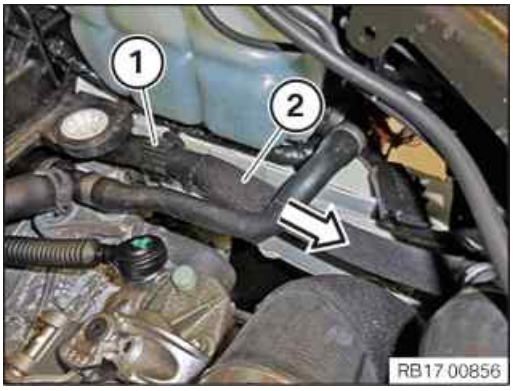
Tighten screws (1) on front axle support and adapter deformation element.
Tightening torque 31 11 3AZ.

If the cooling module is still not in the correct installation position, slacken the bridge.



Remove rubber mount (1) on the left and right.

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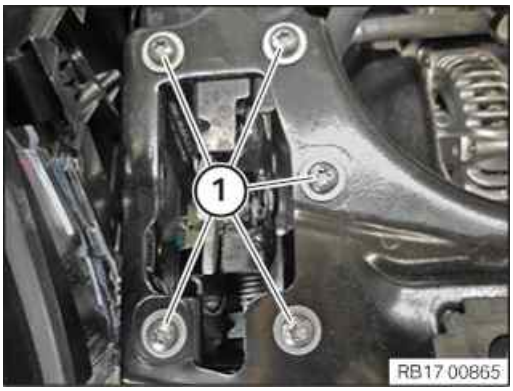


Release clamp (1) and pull coolant hose (2) slightly forward.

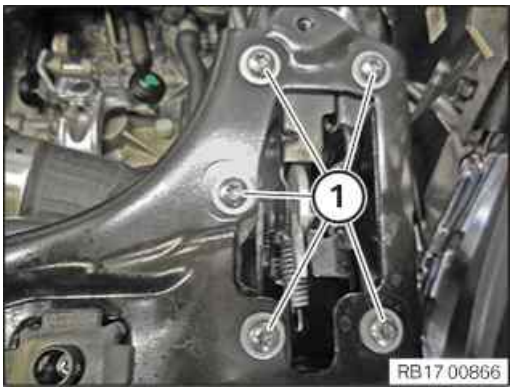
Lock clamp (1).



Carefully straighten refrigerant tank ventilation line (1) slightly on the curves (arrows). Or extend the refrigerant tank ventilation line (1) slightly.



Loosen screws (1).



Loosen screws (1).

Slacken bridge.

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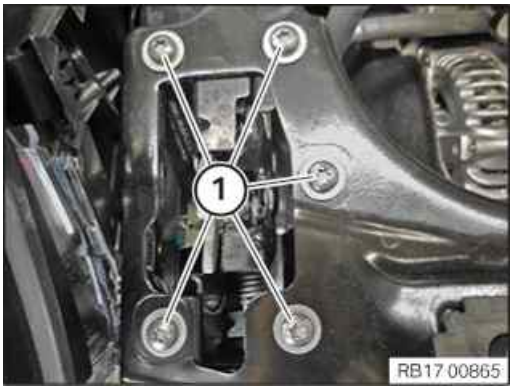
Ensure that the centring pin (1) lies in the centre of the bridge.



Coat rubber mount (1) with lubricant (for fitting aid see electronic parts catalogue).



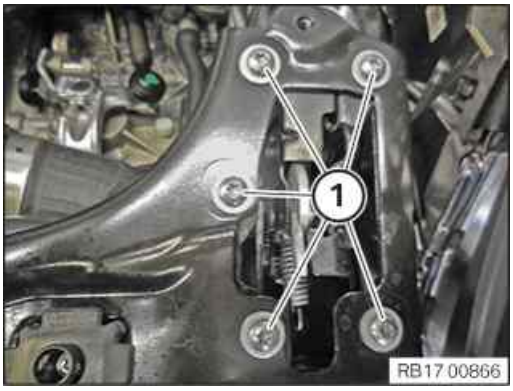
Install rubber mount (1) on the left and right.



Tighten screws (1), right on the bridge.

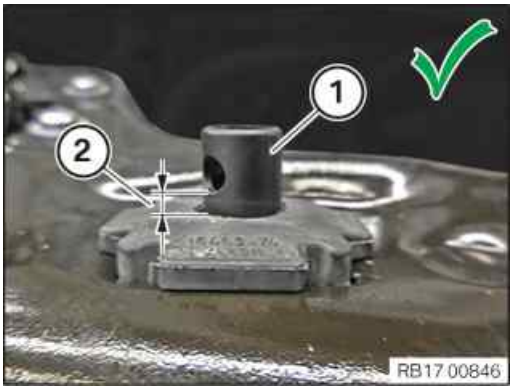
Tightening torque 41 33 2AZ.

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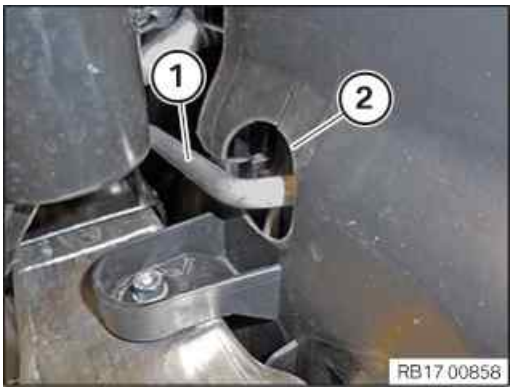


Tighten screws (1), left on the bridge.

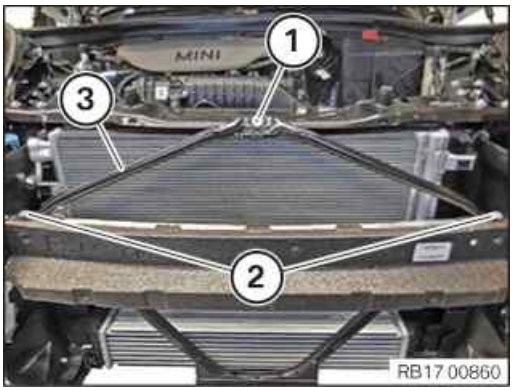
Tightening torque [41 33 2AZ.]



If the cooling module is correctly installed, the centring pin (1) on the left and right juts out by around 2 mm (2) from the rubber mount.



Ensure that the refrigerant line (1) does not lie on the air duct (2), if required cut the air duct opening with appropriate tool (see graphic).

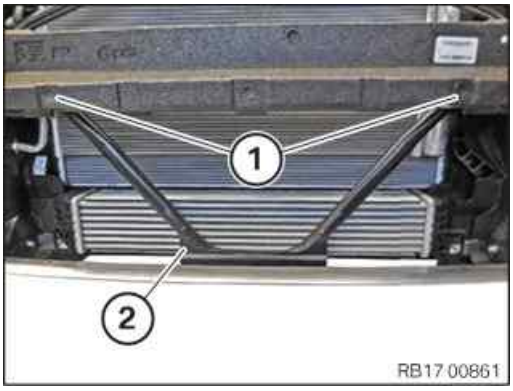


Mount strut (3).

Tighten screw (1).

Tighten screws (2).

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If fitted:

Mount strut (2).

Tighten screws (1).



Ensure that there is enough distance between the strut and the cooling module.

Required follow-up work:

- Install intake silencer housing
- Install intake neck
- Install front underbody protection
- Install bumper panel, front
- **F48 only:**

  Install air duct radiator

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52 13 526 Remove and install/replace (manually) seat mechanism on left or right front seat

Important!

The side airbag is integrated in the front seat.

Improper handling may trigger the side airbag and as a result cause injuries.

Observe safety regulations for handling components of airbag system.



Use of the universal seat mount is recommended for carrying out professional repairs.

Necessary preliminary work:

- Remove seat cover with upholstery
- Remove lower strap on front left or right

Depending on version:

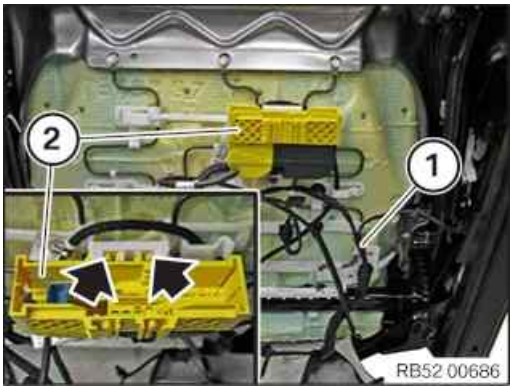
- Remove control unit for seat heating
- Remove footwell lighting

Only front passenger seat, not US:

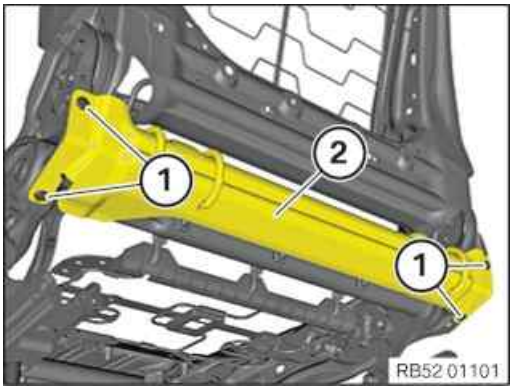
- Remove seat occupancy mat for SBE

Removal:

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Remove wiring harness (1) from all cable clips.
Unlock connector housing (2) and detach from seat mechanism to rear.
Feed out wiring harness (1) to rear away from seat mechanism.



Equipment specification with Isofix:
Drill out rivet (1).
Take off holder (2).
Remove remnants of rivets.



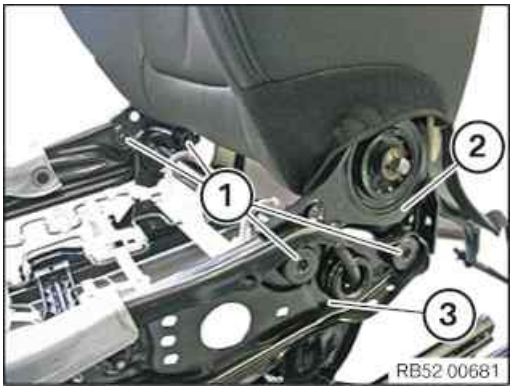
Release screws (1).
Remove backrest frame (2) from seat frame (3).

Depending on version:

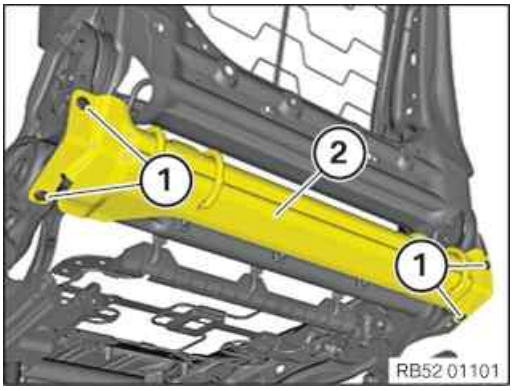
- Remount lever for seat height adjustment
- Remount lever for seat angle adjustment
- Remount all trim parts from front seat

Installation:

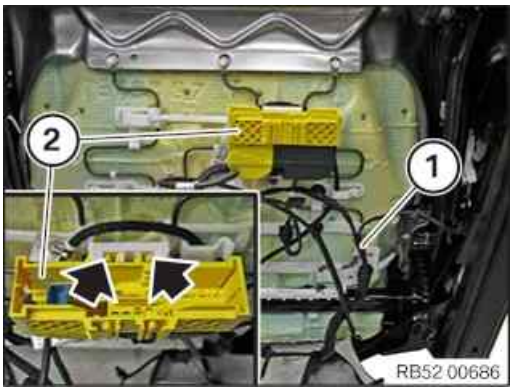
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Fasten backrest frame (2) to seat frame (3) using screws (1).
Tightening torque 52 10 2AZ.



Equipment specification with Isofix:
Attach holder (2) using the rivets (1).



Feed in wiring harness (1).
Latch connector housing (2) into seat mechanism.
Fasten wiring harness (1) to all cable clips.

Required follow-up work:

Only front passenger seat, not US:

- Mount seat occupancy mat for SBE

Depending on version:

- Mount footwell lighting
- Mount control unit for seat heating

All variants:

- Mount seat cover with upholstery
- Mount lower strap at front left or right

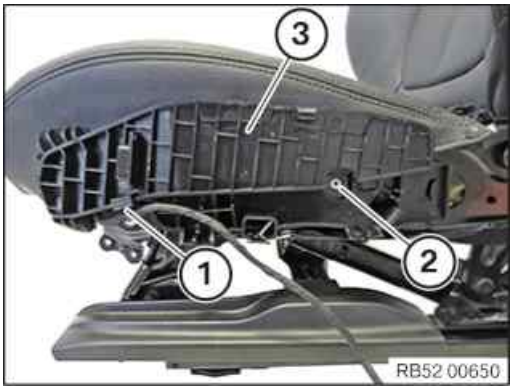
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52 13 ... Remove and install/replace support for operation on left or right front seat

Necessary preliminary tasks:

- Remove switch combination for seat adjustment

Removal:



Release cable clip (1).

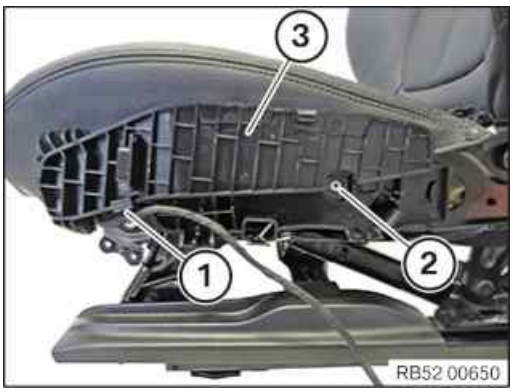
Lay out protective mats to protect interior equipment from swarf from drilled out rivet.

Drill out blind rivet (2).

Remove support (3) towards front.

Remove all rivet remnants.

Installation:



Insert support (3) from front and fix in place using blind rivet (2).

Secure cable clip (1).

Required follow-up work:

- Install operating unit for seat adjustment

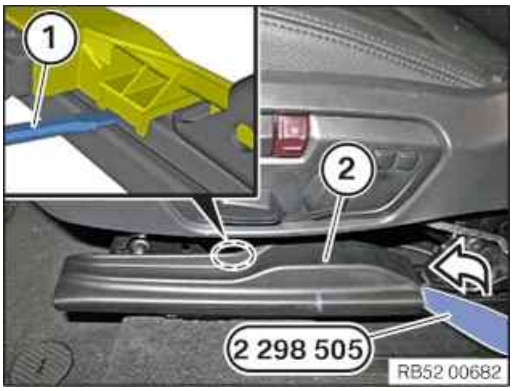
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52 13 ... Remove and install/replace trim on left or right front seat

Special tools required:

- 2 298 505

Removal:

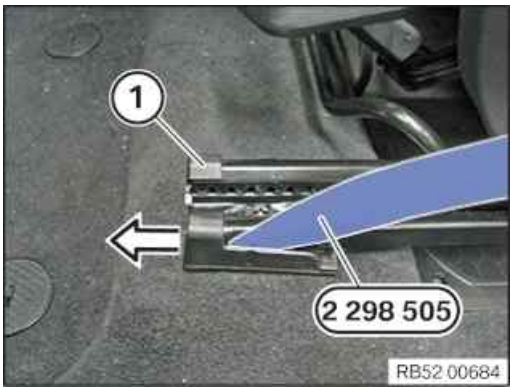


Side trim (for electric seat):

Slide screwdriver (1) from rear into marked area under the trim (2).

Raise trim (2) slightly using screwdriver (1).

Position special tool 2 298 505 at rear onto trim (1) and unclip forwards.

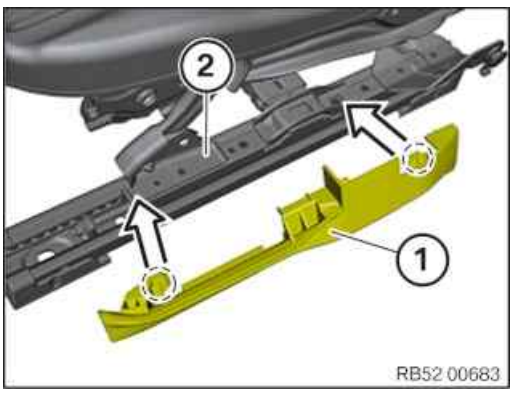


Seat rail trim:

Insert special tool 2 298 505 at side into trim (1).

Unclip cover (1) towards front.

Installation:

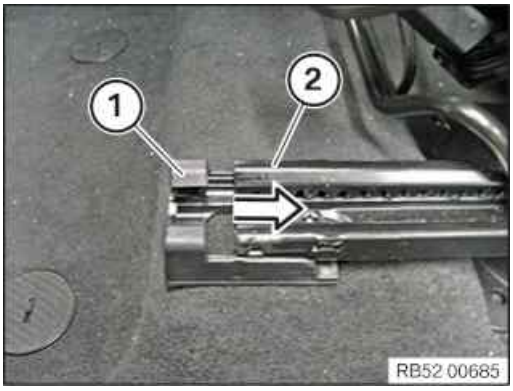


Side trim (for electric seat):

Position trim (1) from front with guides onto seat mechanism (2).

Clip trim (1) to rear into seat mechanism (2).

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Seat rail trim:

Slide trim (1) from front onto seat rail (2).

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52 13 001 Removing and installing front seat, driver's side

Attention!

The side airbag is integrated in the front seat.

Improper handling may trigger the side airbag and as a result cause injuries.

Observe safety regulations for handling components of airbag system.

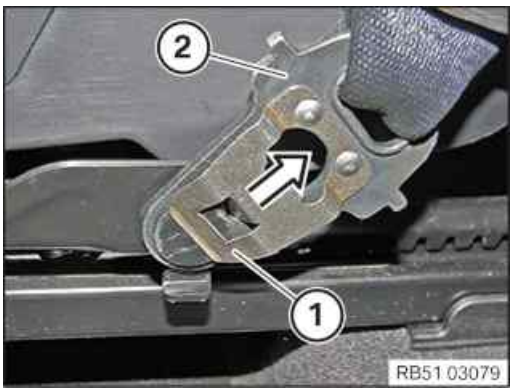
Necessary preliminary tasks:

- Disconnect battery earth lead

Removal:



Slide cover (1) on seat belt (2) upwards.



Turn end fitting (2) towards rear.

Pull lock washer (1) outwards carefully.

At the same time, feed out end fitting (2) towards front.

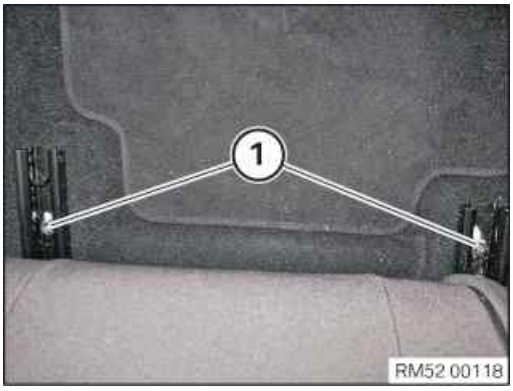
Remove end fitting (2) outwards.

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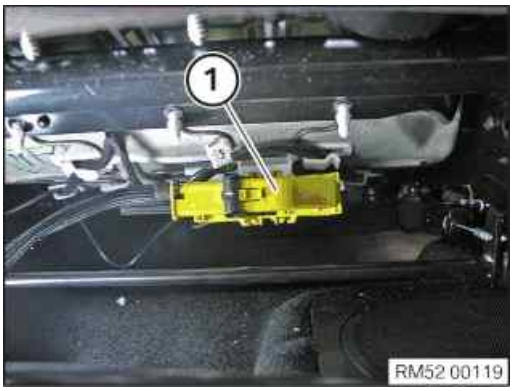
Adjust front seat completely to the rear.

Release front screws (1).



Adjust front seat completely to the front.

Release rear screws (1).



Unlock and disconnect the connector (1).

Attention!

Cover entrances with protective covers (risk of damage!)

Carefully lift out front seat.



Warning!

When carrying out further work on the front seat, it is absolutely imperative to observe the safety regulations on handling airbag modules and pyrotechnical seat belt tensioners

Improper handling can lead to triggering of the pyrotechnical seat belt tensioner or side airbag, resulting in injuries.

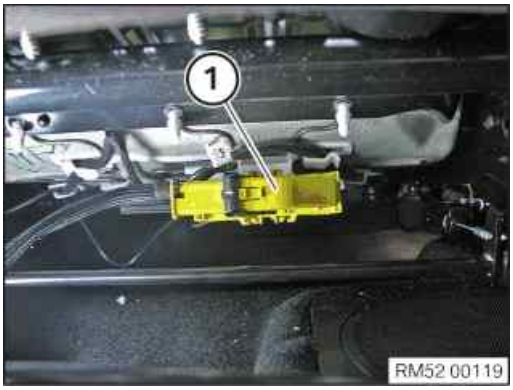
Installation:

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Installation note:

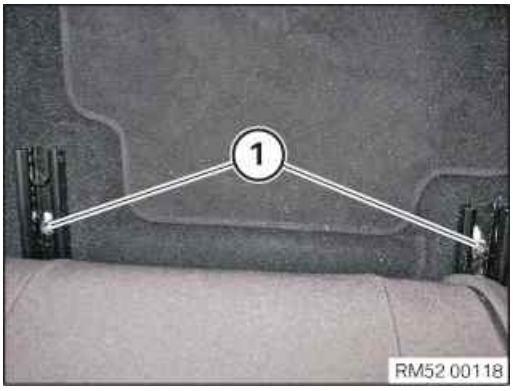
- Carpet must not get between seat rails and floor panel in area of attachment points (groaning noises)
- Insert all screws loose to avoid twisting
- Renew all screws and tighten to the specified torque

  Tightening torque 52 10 1AZ.



Carefully lift and position front seat in vehicle.

Connect the connector (1).



Tighten rear screws (1).*Note:*
Renew screws.

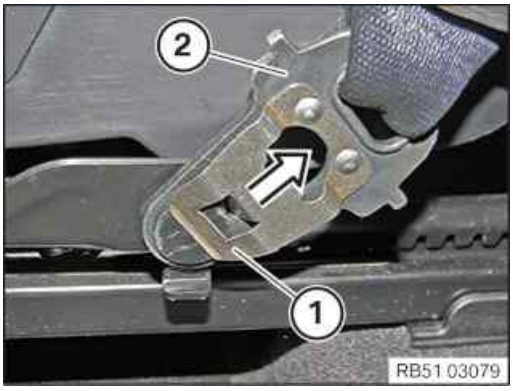
Tightening torque 52 10 1AZ.



Tighten front screws (1).*Note:*
Renew screws.

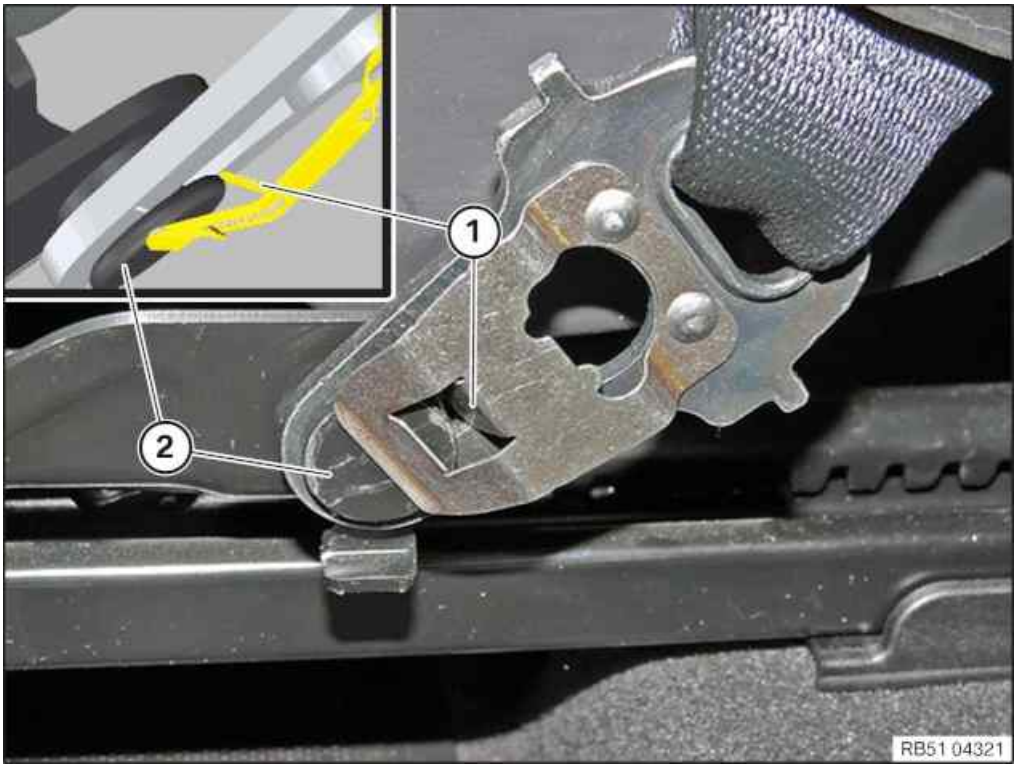
Tightening torque 52 10 1AZ.

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Feed in end fitting (2) and engage.**Attention!**

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



Retaining tab (1) must engage correctly behind the bolt (2).

Attention!

Malfunction if latch mechanism is not correct.

Ask a second person to check the latch mechanism (four-eyes principle).

Both persons must document that the work has been carried out correctly in the vehicle records.

Remember the following video animation.

Video animation "Fasten seat belt at the seat"

Your browser doesn't support HTML5 video.



Slide cover (1) on seat belt (2) downwards.**Attention!**

Perform the concluding check:

Pull end fitting forward, upward and backward.

If the end fitting is not correctly engaged, it cannot be turned on the bolt!

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Required follow-up work:

- Connect battery earth lead

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52 13 002 Removing and installing front seat, passenger's side

Attention!

The side airbag is integrated in the front seat.

Improper handling may trigger the side airbag and as a result cause injuries.

Observe safety regulations for handling components of airbag system.

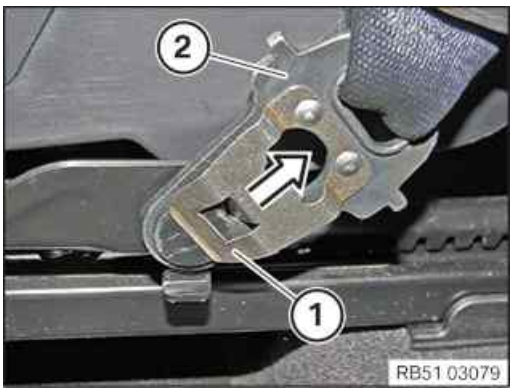
Removal:

Necessary preliminary tasks:

- Disconnect battery earth lead



Slide cover (1) on seat belt (2) upwards.



Turn end fitting (2) towards rear.

Pull lock washer (1) outwards carefully.

At the same time, feed out end fitting (2) towards front.

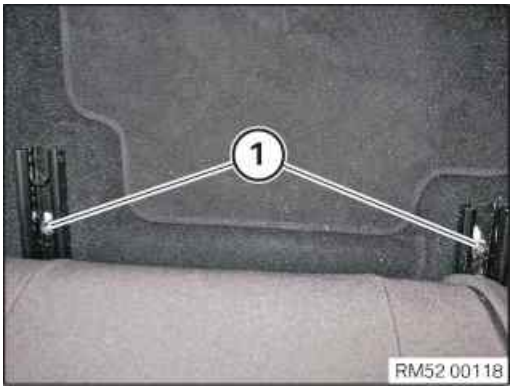
Remove end fitting (2) outwards.

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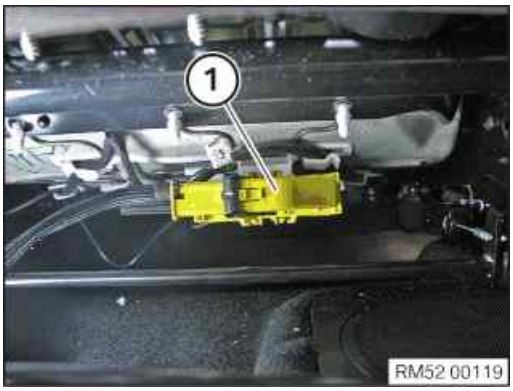
Adjust front seat completely to the rear.

Release front screws (1).



Adjust front seat completely to the front.

Release rear screws (1).



Unlock and disconnect the connector (1).

Attention!

Cover entrances with protective covers (risk of damage!)

Carefully lift out front seat.



Warning!

When carrying out further work on the front seat, it is absolutely imperative to observe the safety regulations on handling airbag modules and pyrotechnical seat belt tensioners

Improper handling can lead to triggering of the pyrotechnical seat belt tensioner or side airbag, resulting in injuries.

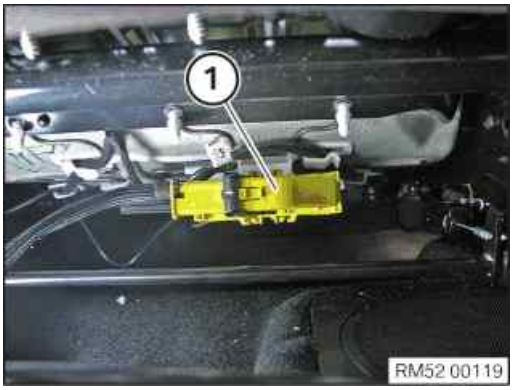
Installation:

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Installation note:

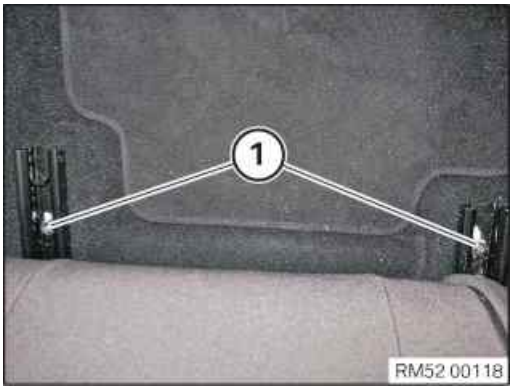
- Carpet must not get between seat rails and floor panel in area of attachment points (groaning noises)
- Insert all screws loose to avoid twisting
- Renew all screws and tighten to the specified torque

  Tightening torque 52 10 1AZ.



Carefully lift and position front seat in vehicle.

Connect the connector (1).



Tighten rear screws (1).*Note:*
Renew screws.

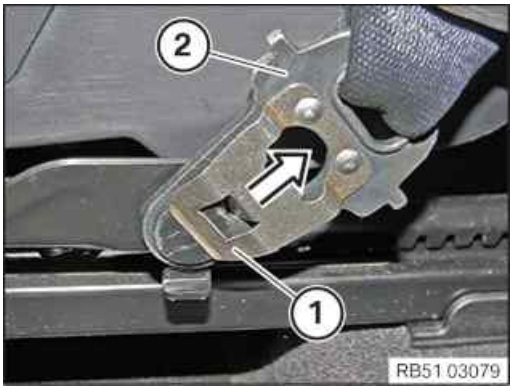
Tightening torque 52 10 1AZ.



Tighten front screws (1).*Note:*
Renew screws.

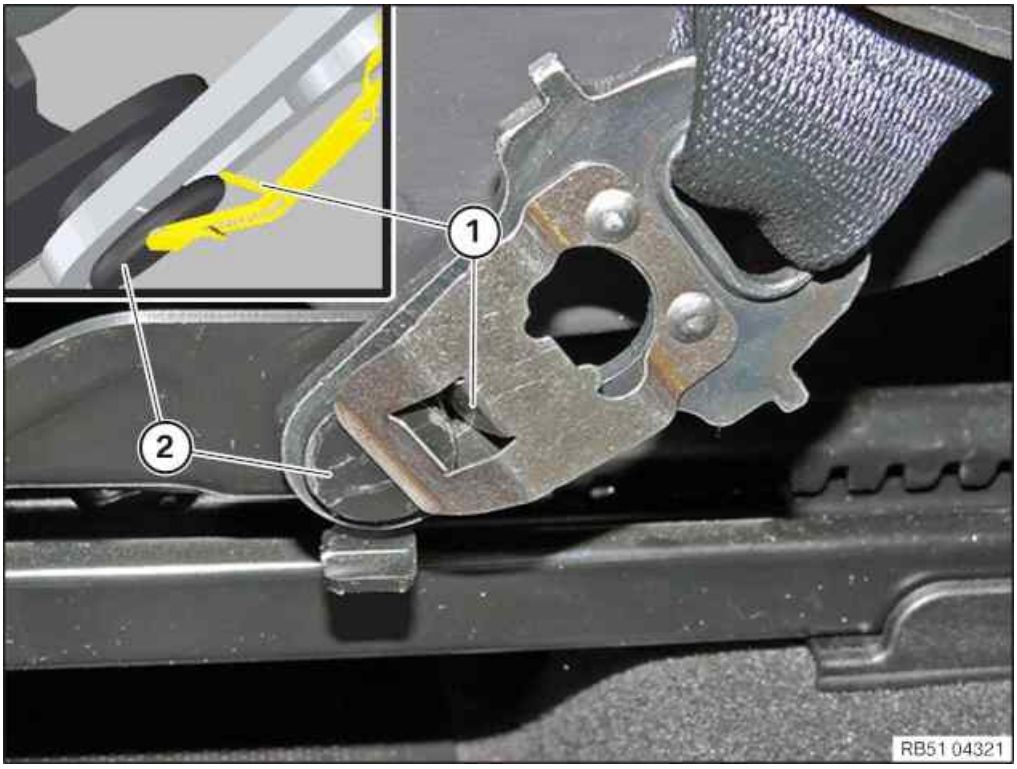
Tightening torque 52 10 1AZ.

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Feed in end fitting (2) and engage.**Attention!**

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



Retaining tab (1) must engage correctly behind the bolt (2).

Attention!

Malfunction if latch mechanism is not correct.

Ask a second person to check the latch mechanism (four-eyes principle).

Both persons must document that the work has been carried out correctly in the vehicle records.

Remember the following video animation.

Video animation "Fasten seat belt at the seat"

Your browser doesn't support HTML5 video.



Slide cover (1) on seat belt (2) downwards.**Attention!**

Perform the concluding check:

Pull end fitting forward, upward and backward.

If the end fitting is not correctly engaged, it cannot be turned on the bolt!

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Required follow-up work:

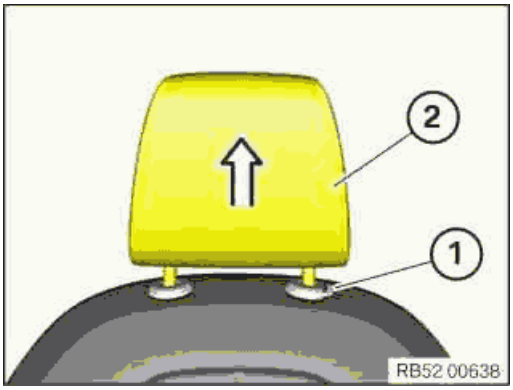
- Connect battery earth lead

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52 13 390 Removing and installing or replacing front left or right head restraint

[redacted]

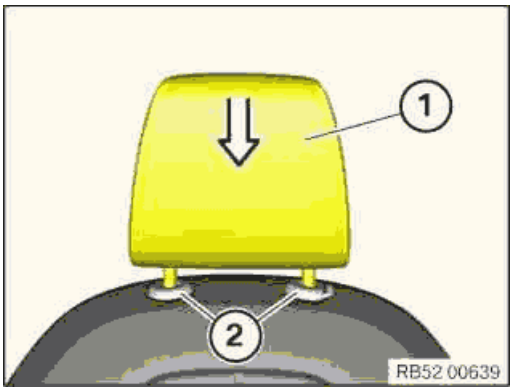
Removal:



Press height adjustment (1) and pull out head restraint (2) upwards.

[redacted]

Installation:



Insert head restraint (1) from above into guide sleeves (2) and latch into place.

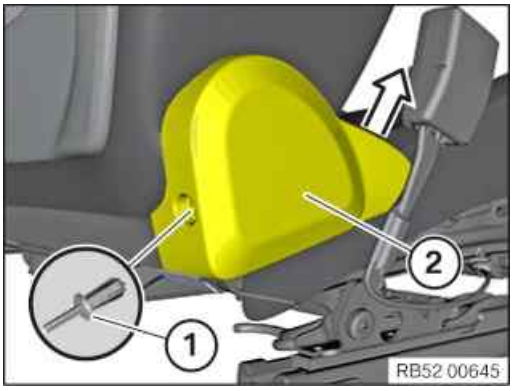
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52 13 041 Removing and installing or replacing inner cover on left or right front seat

Necessary preliminary work:

- Remove front seat

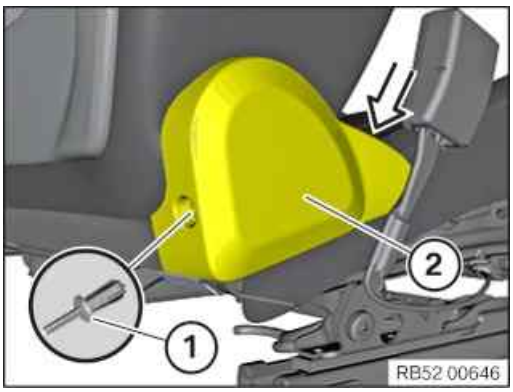
Removal:



Release expansion rivet (1).

Remove cover (2) in direction of arrow.

Installation:



Install cover (2) in the direction of the arrow.

Attach expanding rivet (1).

Required follow-up work:

- Install front seat

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52 13 198 Removing and installing or replacing rear panel on left or right front seat backrest

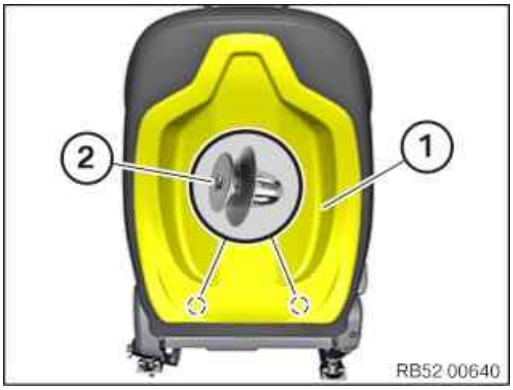
Removal:



Version with foldaway table:

Press together the lock and completely move the oddments table (1) upwards.

Detach the oddments table (1) from the rail.



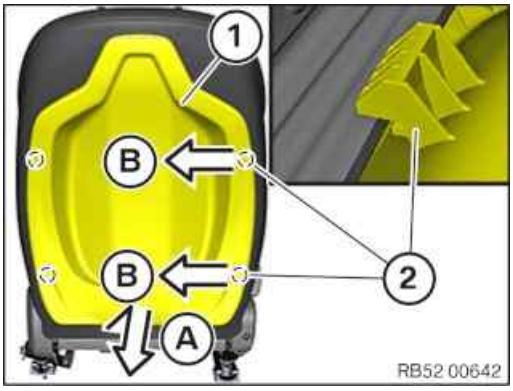
Loosen the rear panel (1) from the clips (2) towards the rear.



Reach behind rear panel (1) and push latch mechanisms (2) upwards.

Hold rear panel (1) to rear under tension.

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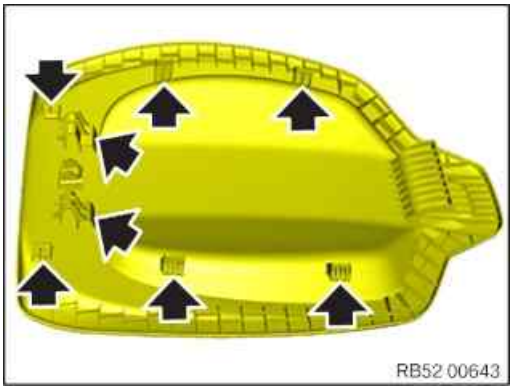


Pull rear panel (1) in lower area slightly to rear/down, direction of arrow (A).

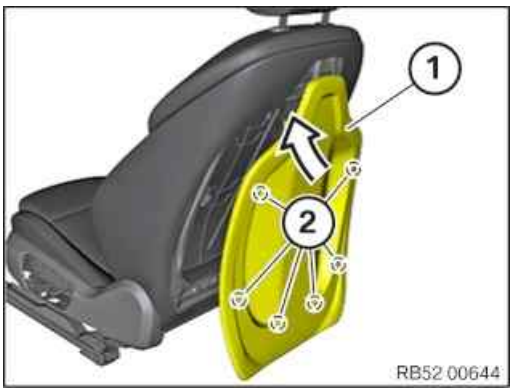
Push rear panel (1) in direction of arrow (B) and release latch mechanisms (2).

Thread rear panel (1) out of seat.

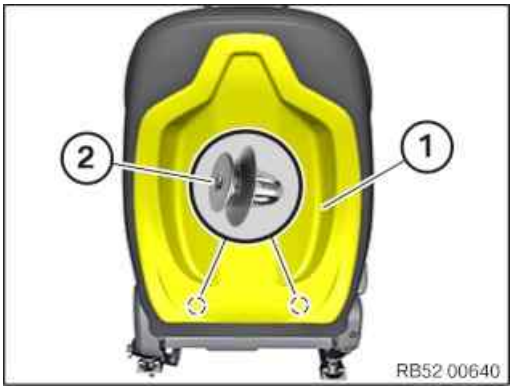
Installation:



Note:
Latch mechanisms and clips must not be missing or damaged.



Insert the rear panel into the seat and clip into the latch mechanisms (2) on the seat.



Secure the rear panel (1) on the seat using the clips (2).

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Version with foldaway table:

Press together the lock and insert the oddments table (1) into the rail at the very top.

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52 13 ... Removing and installing/exchanging guide for left or right front seat head restraint

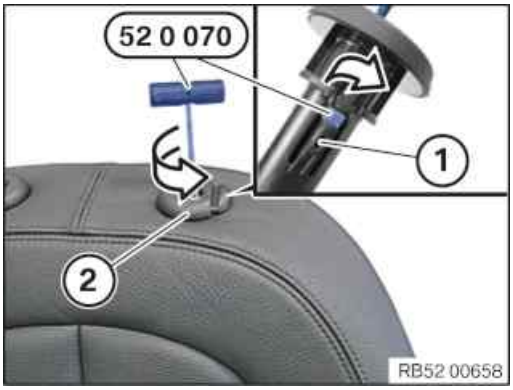
Special tools required:

- 52 0 070

Necessary preliminary tasks:

- Remove head restraint

Removal:

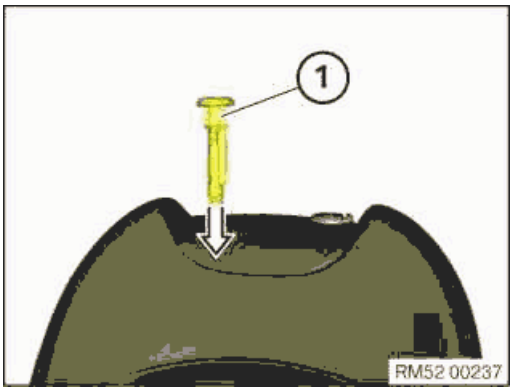


Insert special tool 52 0 070 into guide hole of sleeve (2) up to upper area of retaining lug.

Feed in unlocking tab of special tool behind the latch mechanism (1).

Turn tool to release sleeve (2) and pull out by lifting upwards.

Installation:



Insert guide (1) from above and engage.

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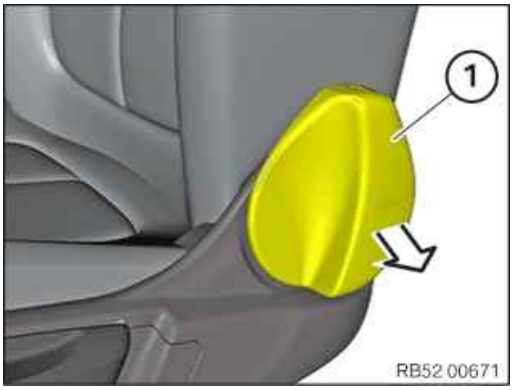
Required reworking:

- Install head restraint

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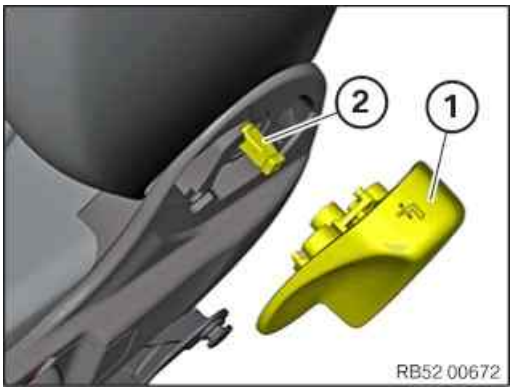
52 13 031 Removing and installing/replacing backrest adjustment lever on left or right front seat

Removal:



Unclip lever (1) outwards.

Installation:



Connect lever (1) to shaft (2) and latch into place.

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52 15 530 Removing and installing/replacing backrest frame for left or right front seat

Attention!

The side airbag is integrated in the front seat.

Improper handling may trigger the side airbag and as a result cause injuries.

Observe safety regulations for handling components of airbag system.

Necessary preliminary tasks:

- Remove rear panel
- Remove seat
- Remove guides for head restraint
- Remove inner and outer cover



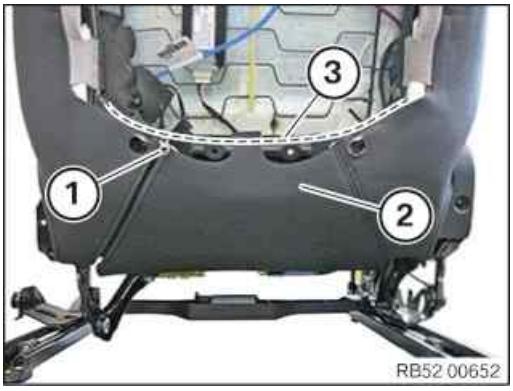
Use of the universal seat mount is recommended for carrying out expert repairs.

Removal:



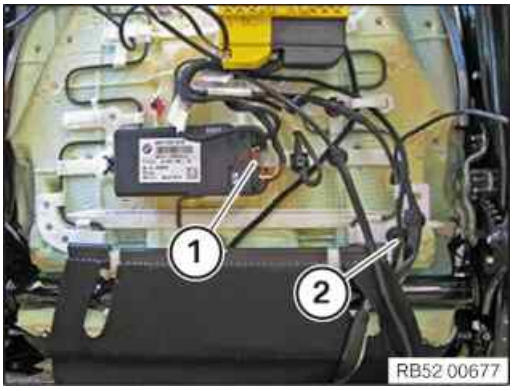
Detach tensioning straps (1) at left and right from seat mechanism.

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Open zip fastener (1).

Detach seat cover (2) in area (3) from backrest frame.

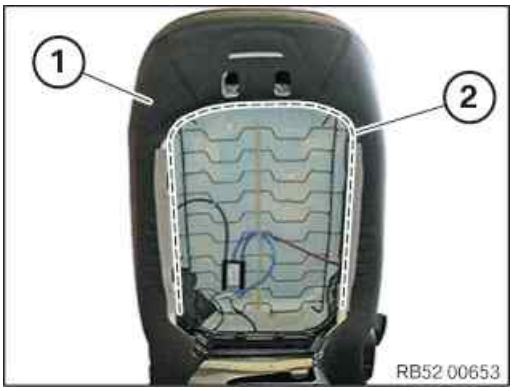


Version with seat heating:

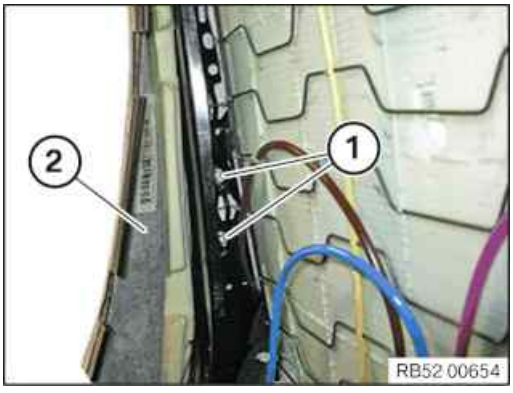
Unfasten plug connection (1) and disconnect.

Unfasten cable strap (2).

Feed back cable.



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



Unscrew nuts (1).

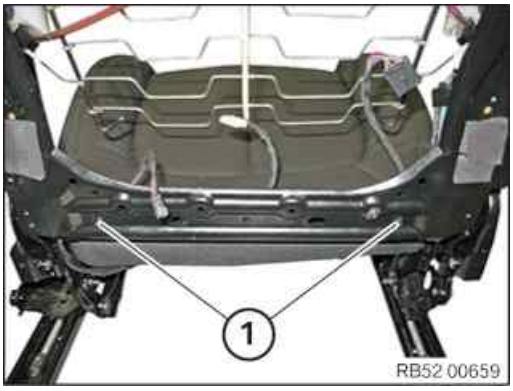
Feed side airbag downwards and out of backrest cover (2).

Remove backrest cover (2) with upholstery upwards from backrest frame.

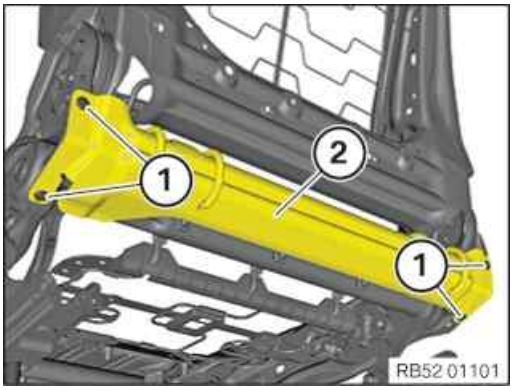
Depending on version:

- Remove backrest width adjustment
- Remove backrest width adjustment with lumbar support
- Remove lumbar support

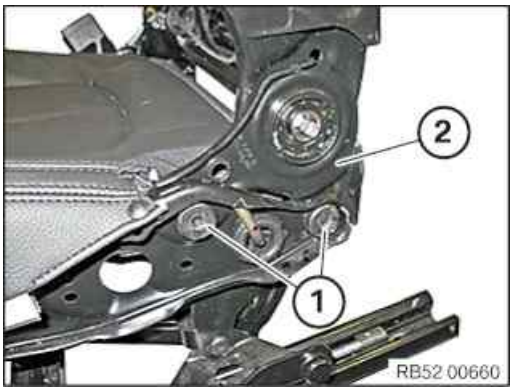
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Release wiring harness at clips (1) from backrest frames.
Carefully feed wiring harness out of backrest frame.

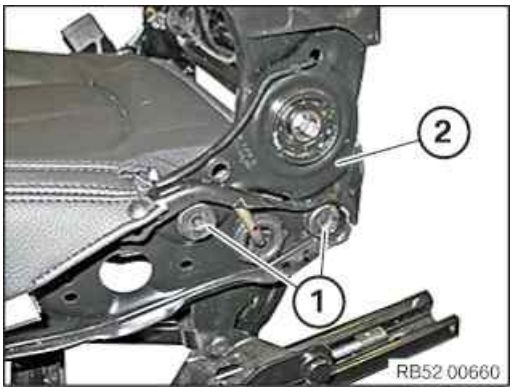


Equipment specification with Isofix:
Drill out rivet (1).
Take off holder (2).
Remove remnants of rivets.



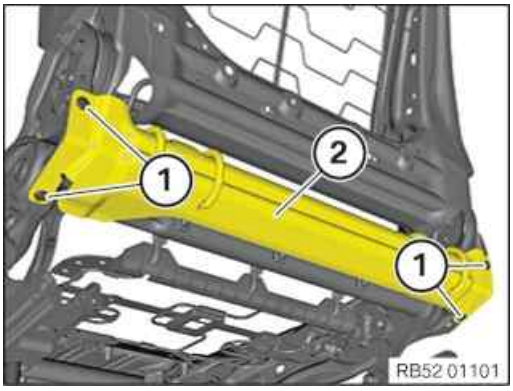
Release screws (1) on left and right.
Remove backrest frame (2).

Installation:



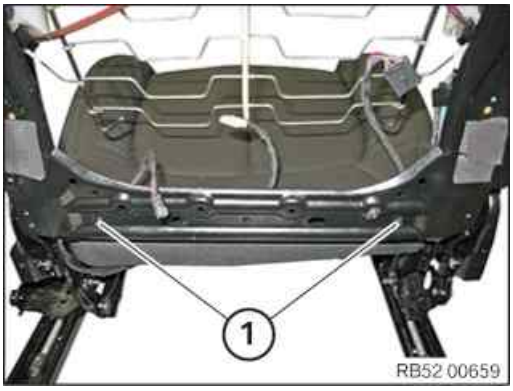
Fasten backrest frame (2) in place using screws (1).
Tightening torque 52 10 2AZ.

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Equipment specification with Isofix:

Attach holder (2) using the rivets (1).

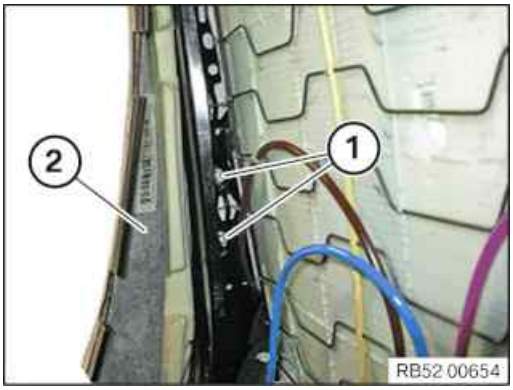


Feed wiring harness into backrest frame.

Attach wiring harness with clips (1) on backrest frame.

Depending on version:

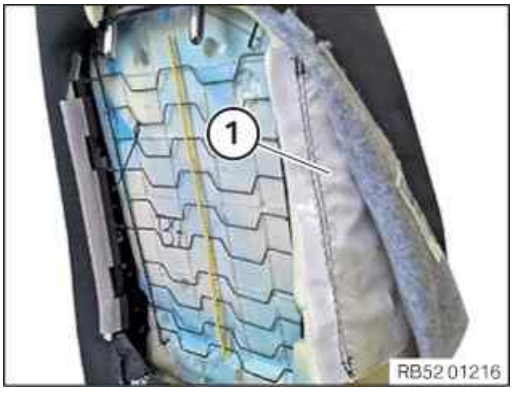
- Install backrest width adjustment
- Install backrest width adjustment with lumbar support
- Install lumbar support



Position backrest cover (2) with upholstery from above onto backrest frame.

Feed in side airbag from below into backrest cover (2).

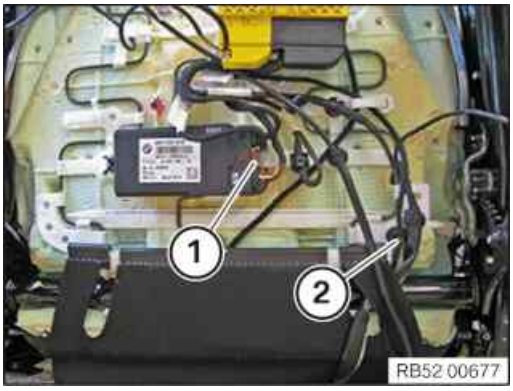
Tighten down nuts (1).



Note:
As per the version, the backrest cover can have one airbag pouch (1) on both sides.

Ensure that the unused airbag pouch (1) is kept tightly and crease-free between the cushion and the backrest cover.

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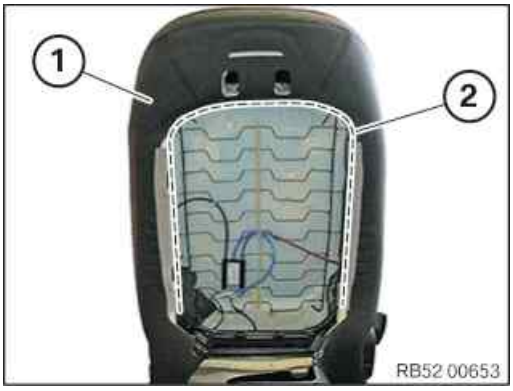


Version with seat heating:

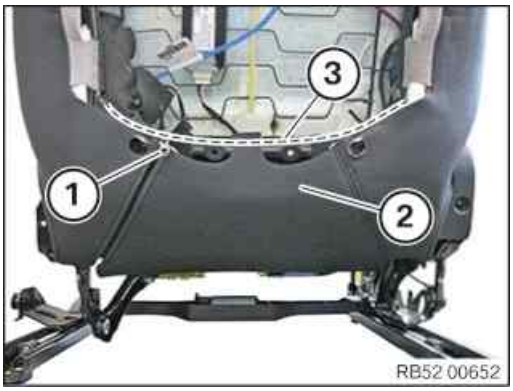
Feed in cable.

Secure cable clip (2).

Connect the connector (1).



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



Attach seat cover (2) in area (3) to backrest frame.

Close zip fastener (1).



Attach tensioning straps (1) at left and right to seat mechanism.

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Required follow-up work:

- Mount inner and outer cover
- Mount guides for head restraint
- Install the seat
- Mount rear panel

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52 13 040 Removing and installing/replacing outer cover on left or right front seat (manual)

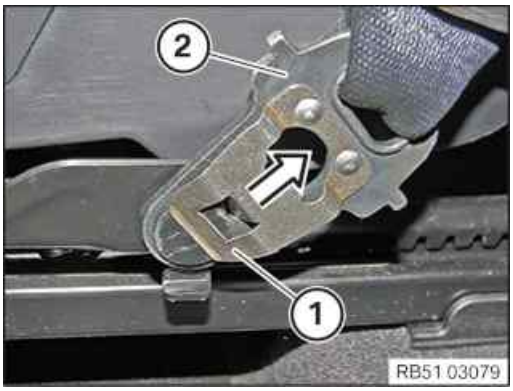
Necessary preliminary tasks:

- Remove lever for backrest adjustment
- Remove lever for seat height adjustment

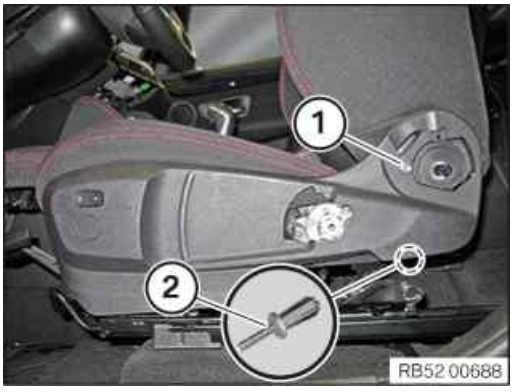
Removal:



Slide cover (1) on seat belt (2) upwards.

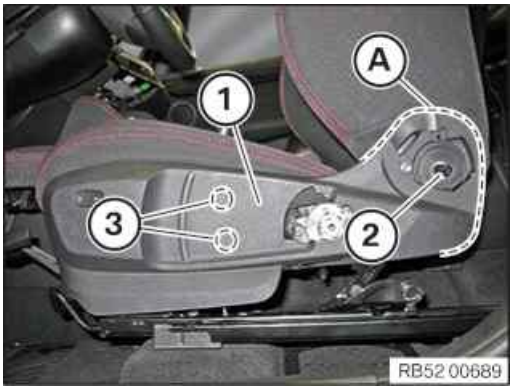


Turn end fitting (2) towards rear.
Carefully pull the retaining clip (1) towards the outside.
At the same time, feed out end fitting (2) towards front.
Remove end fitting (2) outwards.



Release screw (1).
Release expanding rivet (2).

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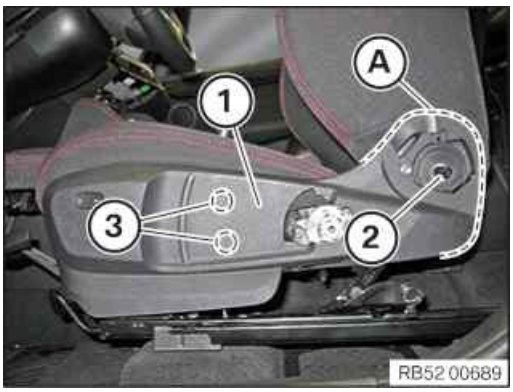


Lift cover (1) in area (A) over shaft (2).
Detach cover (1) forward and out of guides (3).
If necessary, unlock associated plug connections and disconnect.

Installation:

Replacement (depending on version):

- Remount switch for backrest width adjustment
- Remount switch for lumbar support

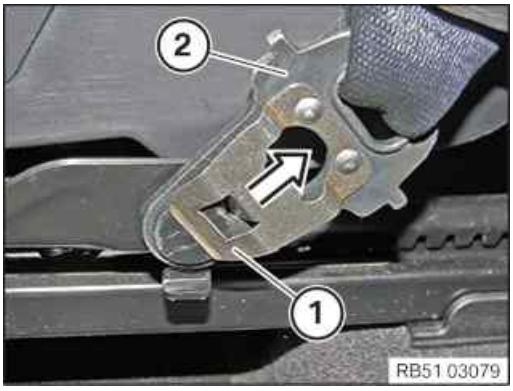


If required, connect relevant connector.
Attach cover (1) from front into guides (3).
Lift cover (1) in area (A) over shaft (2).



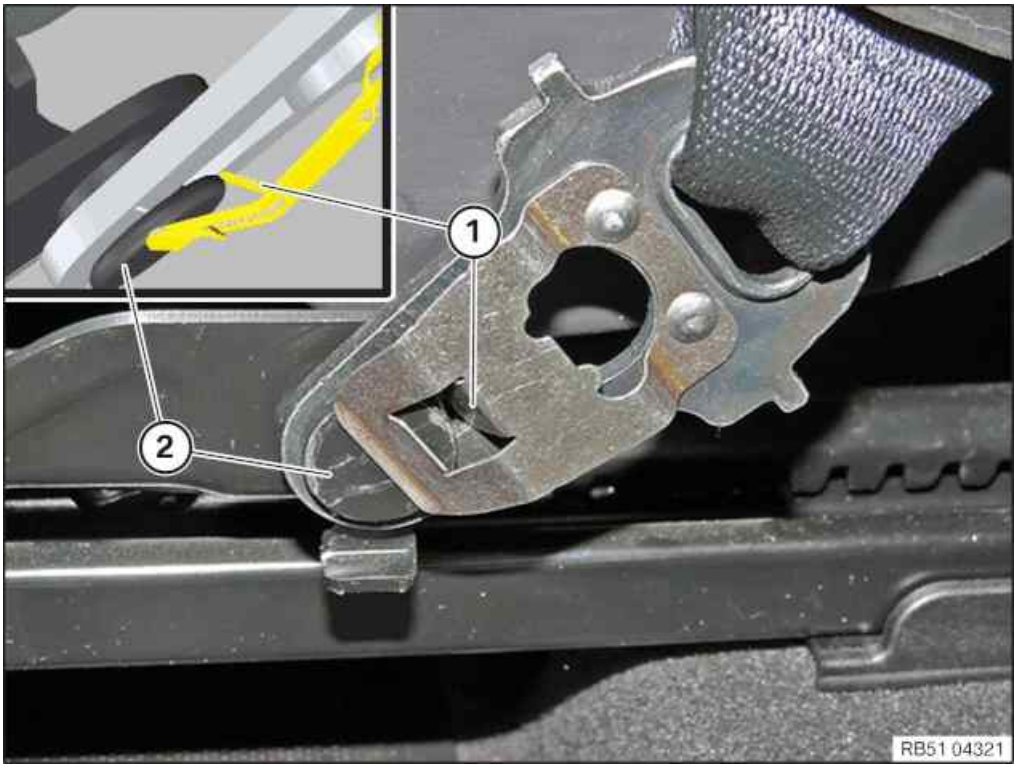
Tighten screw (1).
Attach expanding rivet (2).

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Insert end fitting (2).**Attention!**

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



Retaining tab (1) must engage correctly behind the bolt (2).

Attention!

Malfunction if latch mechanism is not correct.

Ask a second person to check the latch mechanism (four-eyes principle).

Both persons must document that the work has been carried out correctly in the vehicle records.

Remember the following video animation.

Video animation "Fasten seat belt at the seat"

Your browser doesn't support HTML5 video.



Slide cover (1) on seat belt (2) downwards.**Attention!**

Perform the concluding check:

Pull end fitting forward, upward and backward.

If the end fitting is not correctly engaged, it cannot be turned on the bolt!

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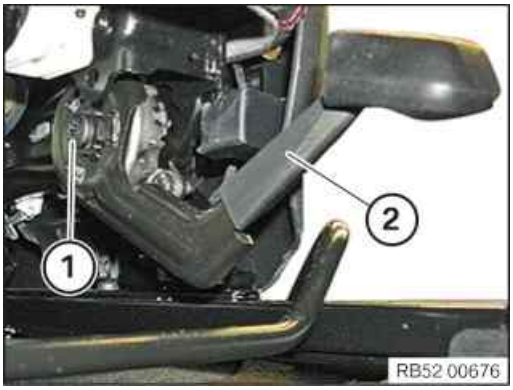
Required follow-up work:

- Install lever for backrest adjustment
- Install lever for seat height adjustment

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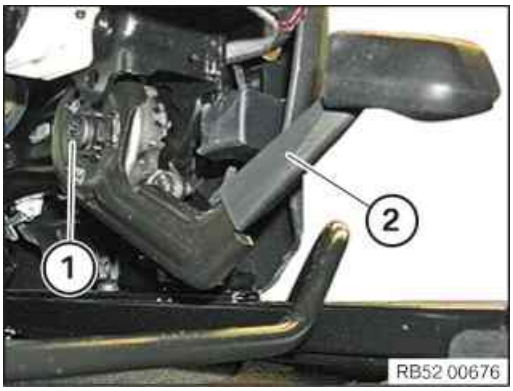
52 13 ... Removing and installing/replacing seat angle adjustment lever on left or right front seat

Removal:



Loosen screw (1) and remove lever (2).

Installation:



Position lever (2) and tighten screw (1).

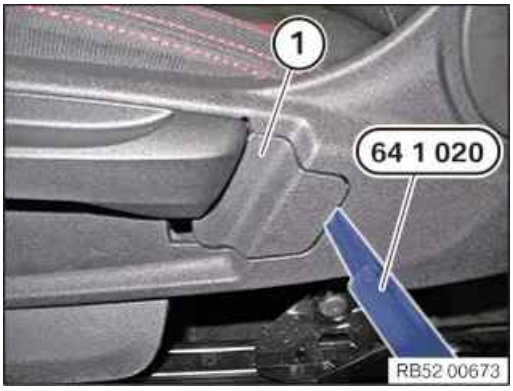
cardiagn.com

52 13 ... Removing and installing/replacing seat height adjustment lever on left or right front seat

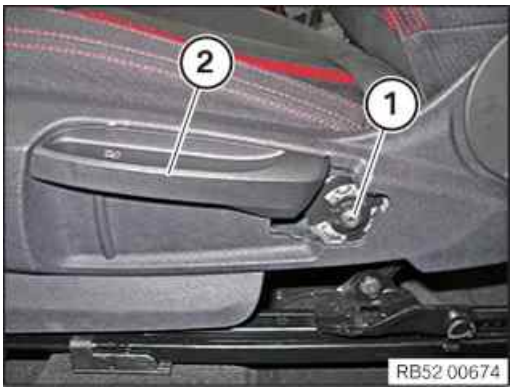
Special tools required:

- 64 1 020

Removal:



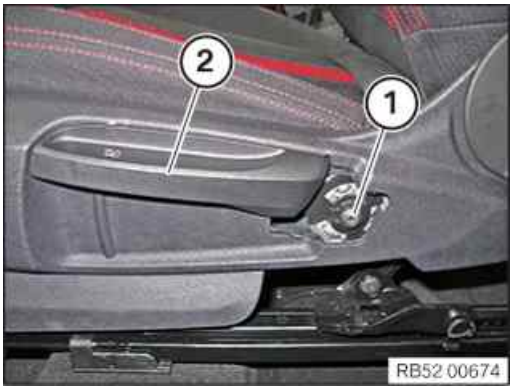
Unclip cover (1) with special tool 64 1 020 .



Loosen screw (1) and remove lever (2).

INSTALLATION:

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Position lever (2) and tighten screw (1).



Clip in cover (1).

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52 13 400 Replace seat cover for left or right front seat (normal).

Special tools required:

- 52 0 050

Warning!

Danger of injury!

The seat frame has very sharp edges that can cause injuries from cuts.

Exercise extreme caution and wear work gloves as required when carrying out any repair work in the area of the seat frame.

Important!

Risk of damage on sharp-edged seat mechanism.

Guide all cables carefully through seat and backrest mechanism.

Make sure cable is routed without kinks and tension.

Make sure plug connections are correctly locked.

Make sure connectors are correctly seated in latch mechanisms.

Important!

- Microencapsulated screws must be coated with Loctite if they are to be reused
- Screw connection must be completed within 20 min. (start of hardening)
- Microencapsulated screws must not be retightened
- Thread of nut must be cleaned beforehand in event of repeated use

Necessary preliminary tasks:

- Remove front seat
- Remove inner cover
- Remove outer cover

Removal:

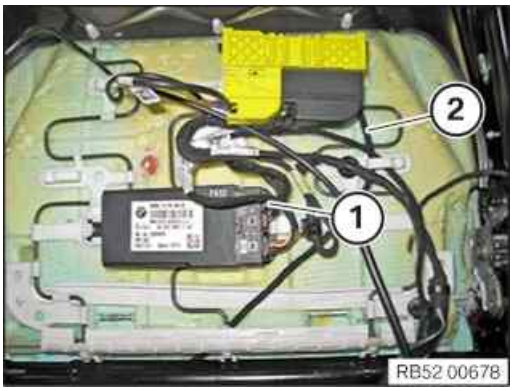
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Use of the universal seat mount is recommended for carrying out professional repairs.



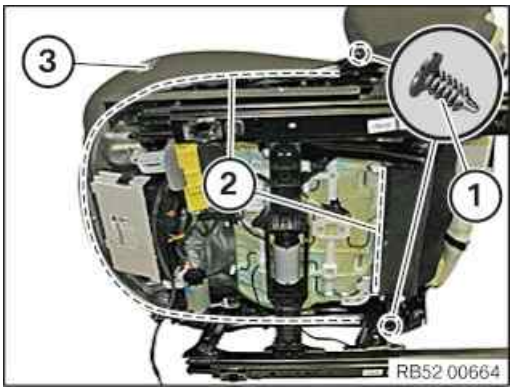
Detach tensioning straps (1) at left and right from seat mechanism.



<u>On versions with seat heating:</u>

Unfasten plug connection (1) and disconnect.

Feed back attendant cable (2).



Release clamps (1).

Unhook welt (2).

Remove seat cover (3) with support.

If necessary, feed out cable.

Important!

Feed the wiring harness carefully through the seat and backrest mechanism as the edges of the frame can be sharp.

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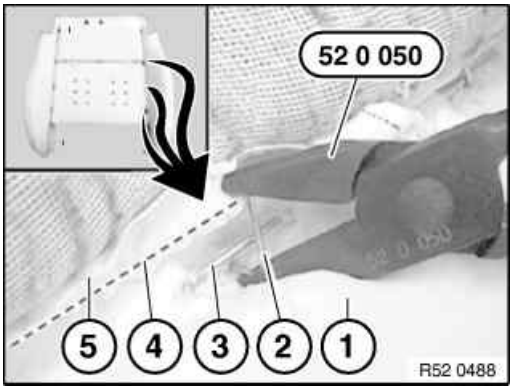
Release all clamps in marked area.

Remove seat cover from upholstery.

Important!

Remove all remnants of clamps from seat cover and upholstery.

Installation:

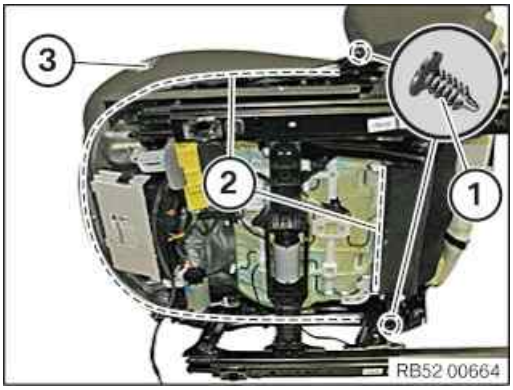


Position seat cover.

Parts: Replace upholstery clamps.

Bend new clamps (2) with special tool 52 0 050 .

1. Upholstery
2. Clamp
3. Trim wire in upholstery
4. Trim wire in seat cover
5. Seat cover



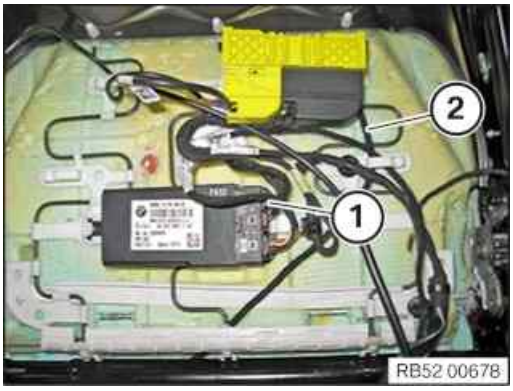
Mount seat cover (3) with upholstery onto seat mechanism.

Important!

Feed the wiring harness carefully through the seat and backrest mechanism as the edges of the frame can be sharp.

Attach welt (2).

Fasten clips (1).



On versions with seat heating:

Feed in cable (2).

Connect the plug (1).

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Attach tensioning straps (1) at left and right to seat mechanism.

Required follow-up work:

- Install outer cover
- Install inner cover
- Install front seat

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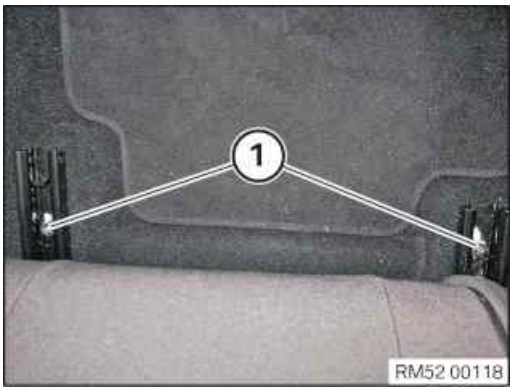
52 13 ... Replacing adjustment travel limit for front passenger seat

Necessary preliminary work:

- Remove trim on front seat rail.



Adjust front seat of the passenger's side completely to the rear.
Release front screws (1).



Adjust front seat of the passenger's side completely to the front.
Release rear screws (1).



Slide seat (1) one piece forwards and tilt to the rear.

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Cover carpet (1) and speaker (2) generously, so that no swarf enters the vehicle.



Drill out blind rivet (1).

Widen clamp (2) front and unthread from the seat rail (3).

Important!

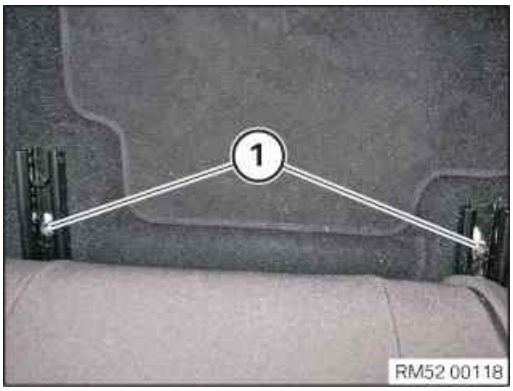
Do not scratch seat rail (3).

Remove rivet head from seat rail (3).

Insert new clamp (2) into seat rail (3) and secure with blind rivet (1).

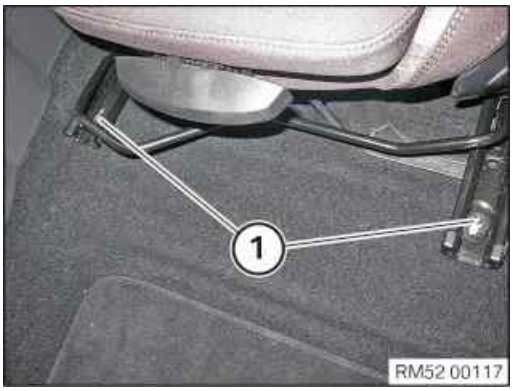
Clean the vehicle interior if necessary.

Position front seat of the passenger's side.



Tighten rear screws (1).

Tightening torque 52 10 1AZ.



Tighten front screws (1).

Tightening torque 52 10 1AZ.

Required follow-up work:

- Attach trim on front seat rail

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52 13 407 Replacing backrest cover for driver's seat

Special tools required:

- 52 0 050

Attention!

The side airbag is integrated in the front seat.

Improper handling may trigger the side airbag and as a result cause injuries.

Observe safety regulations for handling components of airbag system.

Necessary preliminary tasks:

- Remove rear panel
- Remove seat
- Remove guides for head restraint
- Remove inner and outer cover



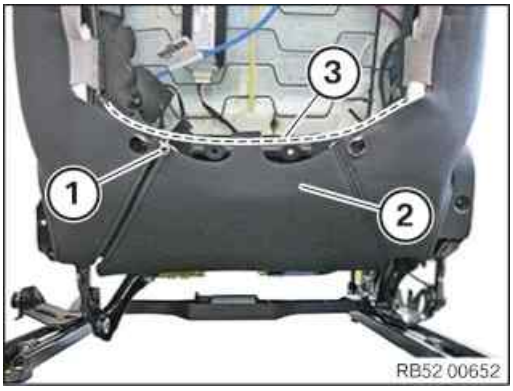
Use of the universal seat mount is recommended for carrying out expert repairs.

Removal:

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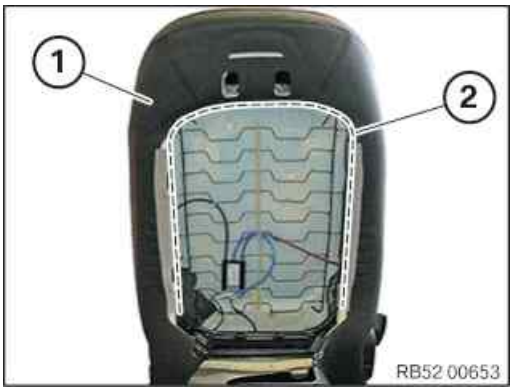


Detach tensioning straps (1) at left and right from seat mechanism.

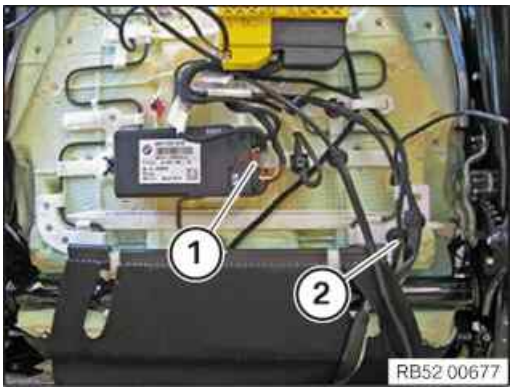


Open zip fastener (1).

Detach seat cover (2) in area (3) from backrest frame.



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



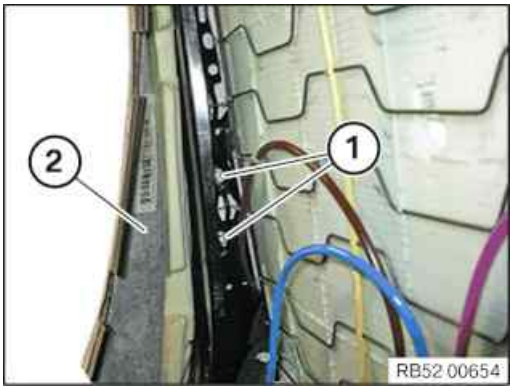
<u>On versions with seat heating:</u>

Unfasten plug connection (1) and disconnect.

Unfasten cable strap (2).

Feed back cable.

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Unscrew nuts (1).

Feed side airbag downwards and out of backrest cover (2).

Remove backrest cover (2) with upholstery upwards from backrest frame.



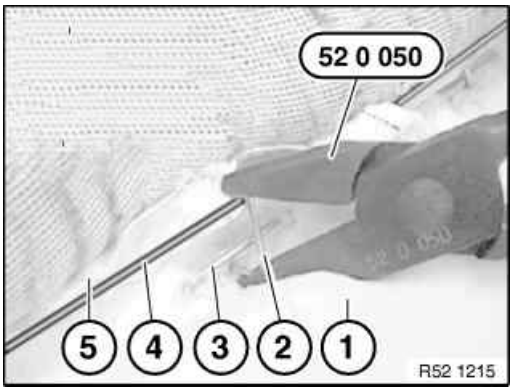
Release all clamps in marked area.

Remove seat cover from upholstery.

Attention!

Remove all remnants of clamps from seat cover and upholstery.

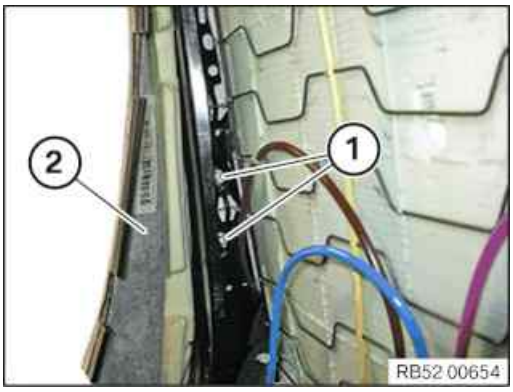
Installation:



Parts: Replace clamps (2).

Insert new clamp (2) with special tool 52 0 050 and bend closed.

1. Upholstery
2. Clamp
3. Trim wire in upholstery
4. Trim wire in seat cover
5. Backrest cover

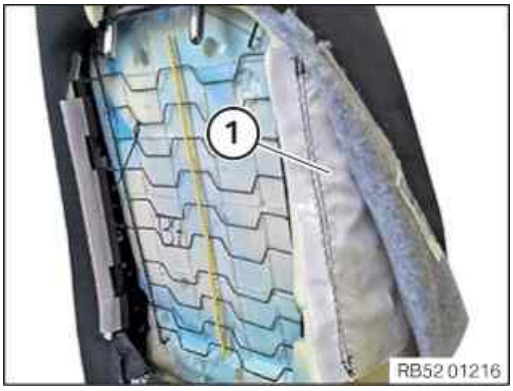


Position backrest cover (2) with upholstery from above onto backrest frame.

Feed in side airbag from below into backrest cover (2).

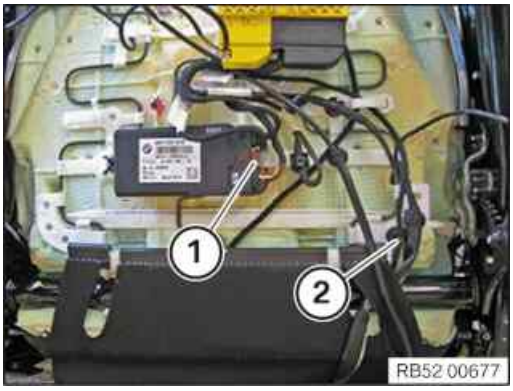
Tighten down nuts (1).

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Note:
As per the version, the backrest cover can have one airbag pouch (1) on both sides.

Ensure that the unused airbag pouch (1) is kept tightly and crease-free between the cushion and the backrest cover.

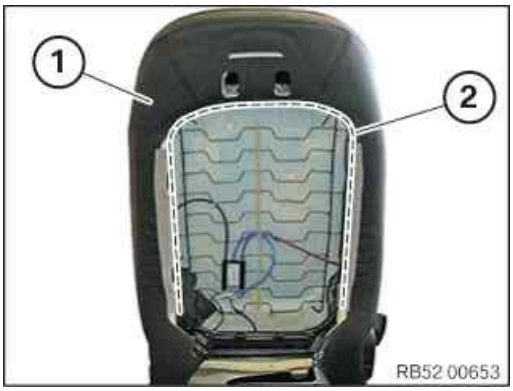


<u>On versions with seat heating:</u>

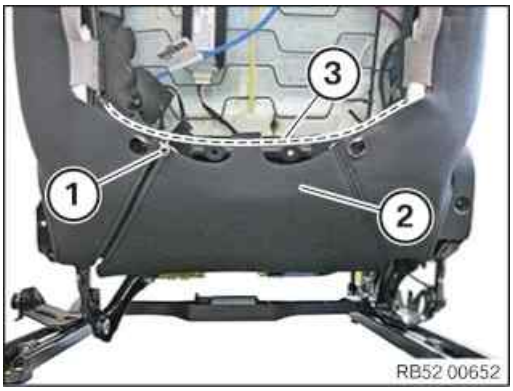
Feed in cable.

Secure cable clip (2).

Connect the connector (1).



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



Attach seat cover (2) in area (3) to backrest frame.

Close zip fastener (1).

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Attach tensioning straps (1) at left and right to seat mechanism.

Required follow-up work:

- Mount inner and outer cover
- Mount guides for head restraint
- Install the seat
- Mount rear panel

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52 13 408 Replacing backrest cover for front passenger seat

Special tools required:

- 52 0 050

Attention!

The side airbag is integrated in the front seat.

Improper handling may trigger the side airbag and as a result cause injuries.

Observe safety regulations for handling components of airbag system.

Necessary preliminary tasks:

- Remove rear panel
- Remove seat
- Remove guides for head restraint
- Remove inner and outer cover



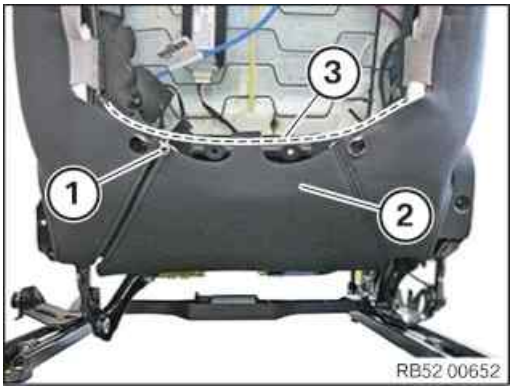
Use of the universal seat mount is recommended for carrying out expert repairs.

Removal:

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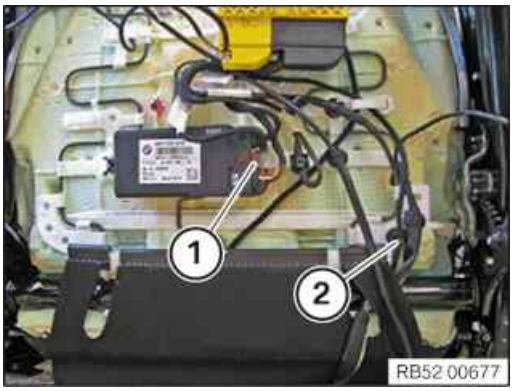


Detach tensioning straps (1) at left and right from seat mechanism.



Open zip fastener (1).

Detach seat cover (2) in area (3) from backrest frame.

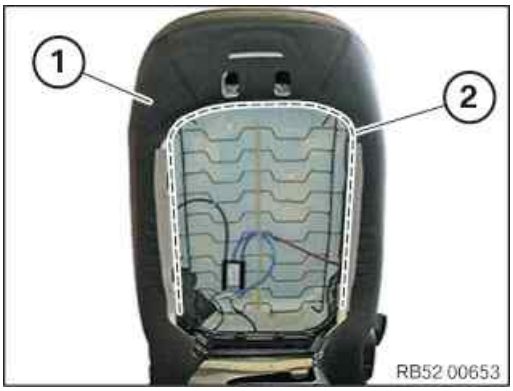


<u>On versions with seat heating:</u>

Unfasten plug connection (1) and disconnect.

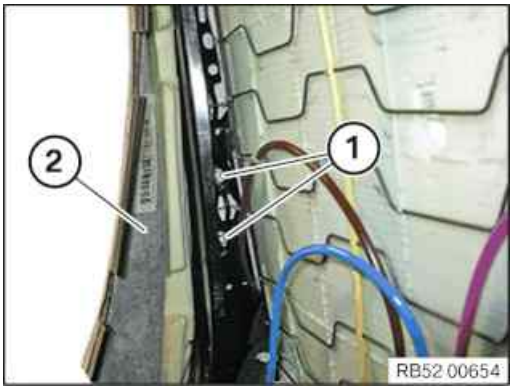
Unfasten cable strap (2).

Feed back cable.



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

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Unscrew nuts (1).

Feed side airbag downwards and out of backrest cover (2).

Remove backrest cover (2) with upholstery upwards from backrest frame.



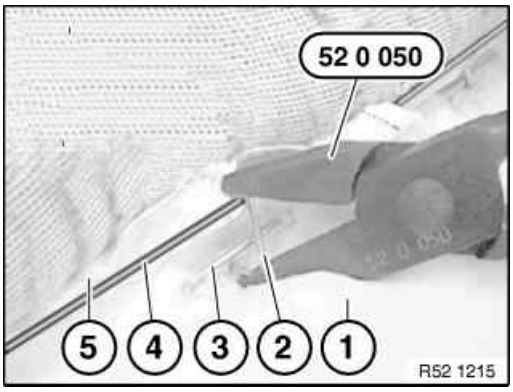
Release all clamps in marked area.

Remove seat cover from upholstery.

Attention!

Remove all remnants of clamps from seat cover and upholstery.

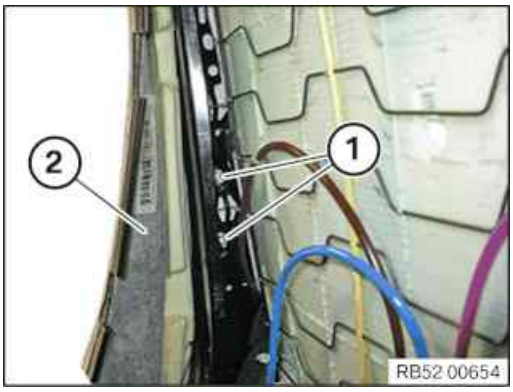
Installation:



Parts: Replace clamps (2).

Insert new clamp (2) with special tool 52 0 050 and bend closed.

1. Upholstery
2. Clamp
3. Trim wire in upholstery
4. Trim wire in seat cover
5. Backrest cover

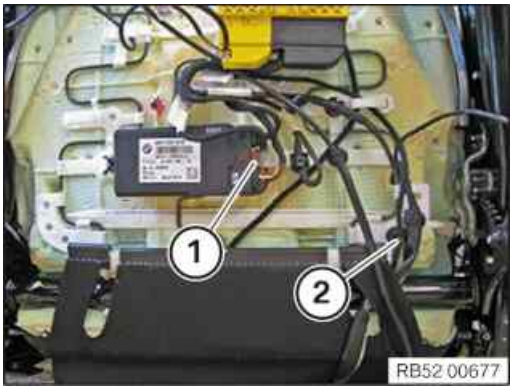


Position backrest cover (2) with upholstery from above onto backrest frame.

Feed in side airbag from below into backrest cover (2).

Tighten down nuts (1).

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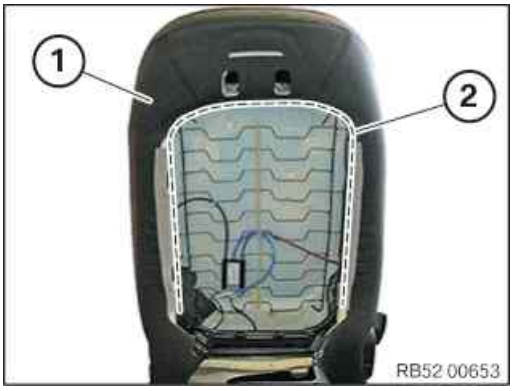


<u>On versions with seat heating:</u>

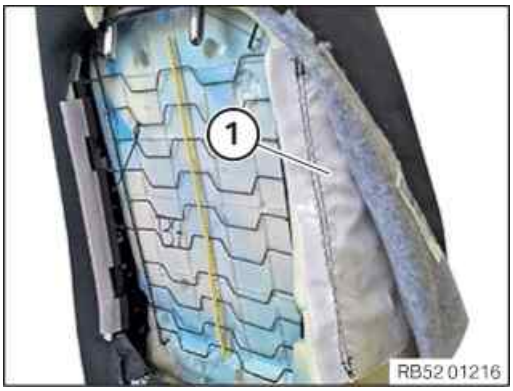
Feed in cable.

Secure cable clip (2).

Connect the connector (1).

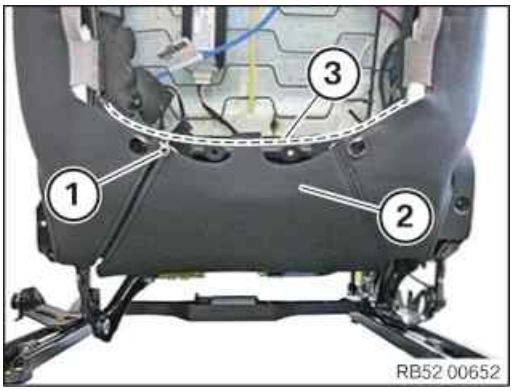


Attach seat cover (1) in area (2) to backrest frame.



Note:
As per the version, the backrest cover can have one airbag pouch (1) on both sides.

Ensure that the unused airbag pouch (1) is kept tightly and crease-free between the cushion and the backrest cover.



Attach seat cover (2) in area (3) to backrest frame.

Close zip fastener (1).

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Attach tensioning straps (1) at left and right to seat mechanism.

Required follow-up work:

- Mount inner and outer cover
- Mount guides for head restraint
- Install the seat
- Mount rear panel

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52 13 417 Replacing upholstery for driver's seat



Operation is described in:

- Replacing seat cover an driver's seat on left or right

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52 13 422 Replacing upholstery for driver's seat backrest



Operation is described in:

Replace backrest cover for driver's seat.

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52 13 418 Replacing upholstery for front passenger seat



Important!

US/CDN front passenger seat (with CIS mat) only:

A faulty facing may only be replaced completely with the CIS mat.

New facing is supplied with CIS mat and, if necessary, seat heating.

After installation, the CIS mat must be enabled with the diagnosis system.

Individual parts not available.



Operation is described in:

- Replacing seat cover an front passenger seat on left or right



Enabling seat occupancy detector (CIS mat):

- Connect BMW diagnosis system
- Carry out service function or test module

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52 13 423 Replacing upholstery for front passenger seat backrest



Operation is described in:

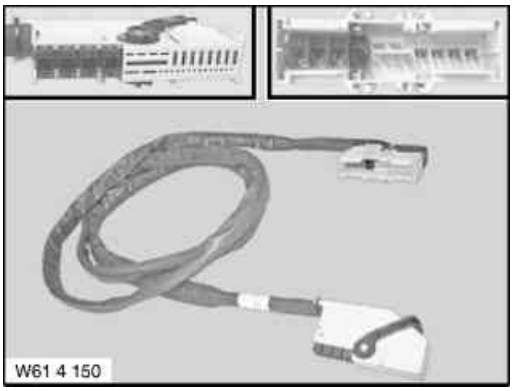
Replace backrest cover for front passenger seat.

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52 14 ... Performing function check with adapter cable (for seat repairs)

Special tools required:

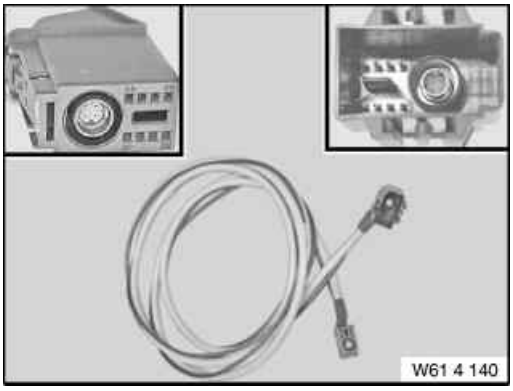
- 61 4 140
- 61 4 150



Seat function check: *Note:*
The function check on a repaired driver's or front passenger seat can be performed outside the vehicle by using adapter cable 61 4 150 .

Application:

Adapter cable is connected to vehicle wiring harness and removed seat 61 4 150 .



RSE (rear passenger compartment monitor) function check *Note:*
The function check of the RSE (rear passenger compartment monitor) on a repaired driver's or front passenger seat can be performed outside the vehicle by using adapter cable 61 4 140 .

Application:

Adapter cable is connected to vehicle wiring harness and removed seat 61 4 140 .

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52 14 526 Remove and install/replace seat mechanism on front seat (electrical) at left or right

Important!

The side airbag is integrated in the front seat.

Improper handling may trigger the side airbag and as a result cause injuries.

Observe safety regulations for handling components of airbag system.



Use of the universal seat mount is recommended for carrying out professional repairs.

Necessary preliminary work:

- Remove seat cover with upholstery
- Remove lower strap on front left or right
- Remove control unit for seat adjustment
- Remove support for operation

Version with light package:

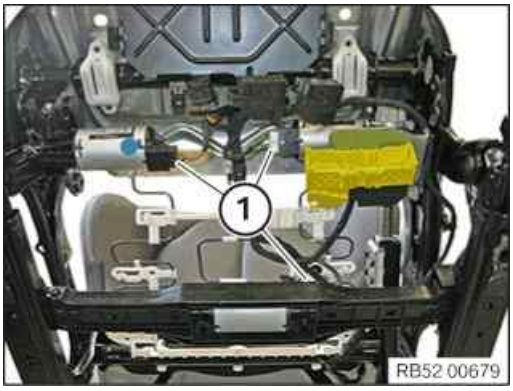
- Remove footwell lighting

Only front passenger seat, not US:

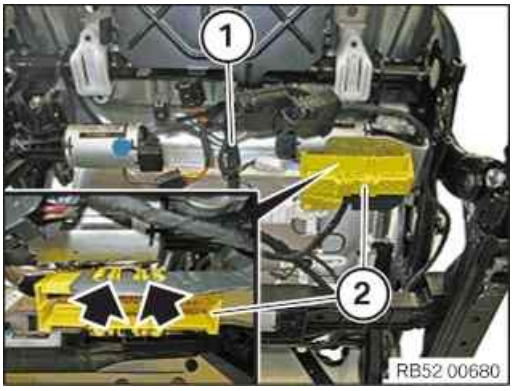
- Remove seat occupancy mat for SBE

Removal:

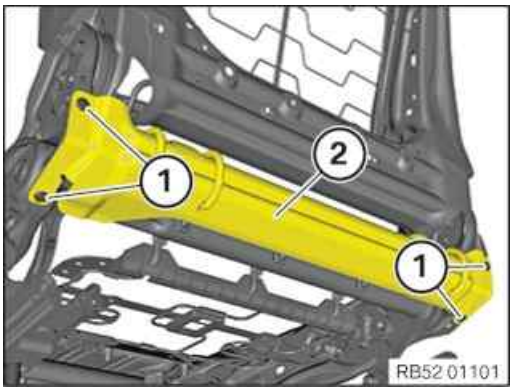
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Unlock plug connections (1) and disconnect.



Remove wiring harness (1) from all cable clips.
Unlock connector housing (2) and detach from seat mechanism to rear.
Feed out wiring harness (1) to rear away from seat mechanism.



Equipment specification with Isofix:
Drill out rivet (1).
Take off holder (2).
Remove remnants of rivets.



Release screws (1).
Remove backrest frame (2) from seat frame (3).

Depending on version:

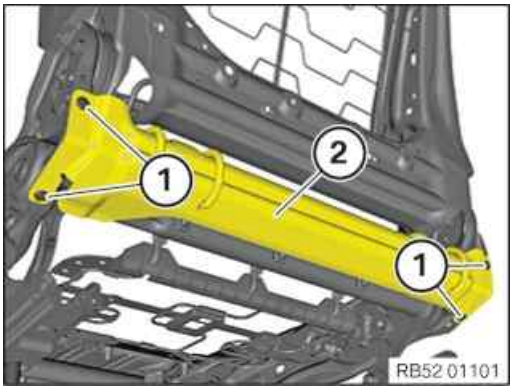
- Remount all trim parts from front seat

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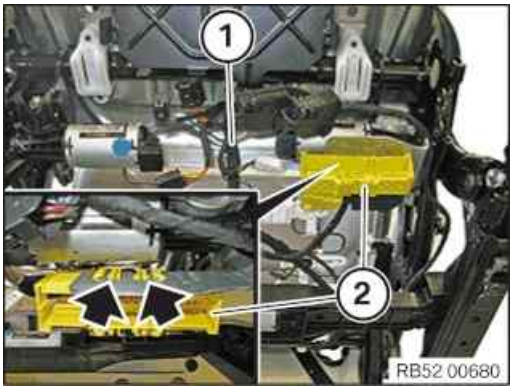
Installation:



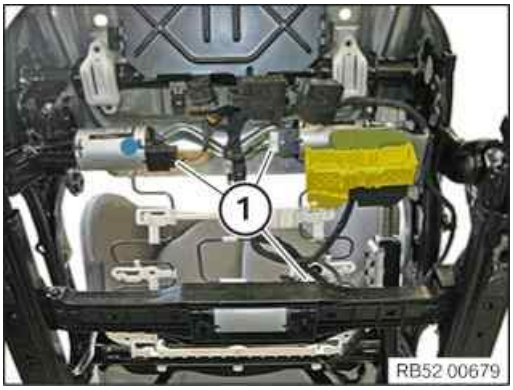
Fasten backrest frame (2) to seat frame (3) using screws (1).
Tightening torque 52 10 2AZ.



Equipment specification with Isofix:
Attach holder (2) using the rivets (1).



Feed in wiring harness (1).
Latch connector housing (2) into seat mechanism.
Fasten wiring harness (1) to all cable clips.



Connect the connector (1).

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Required follow-up work:

Only front passenger seat, not US:

- Mount seat occupancy mat for SBE

Version with light package:

- Mount footwell lighting

All variants:

- Mount seat cover with upholstery
- Mount lower strap at front left or right
- Mount control unit for seat adjustment
- Mount support for operation

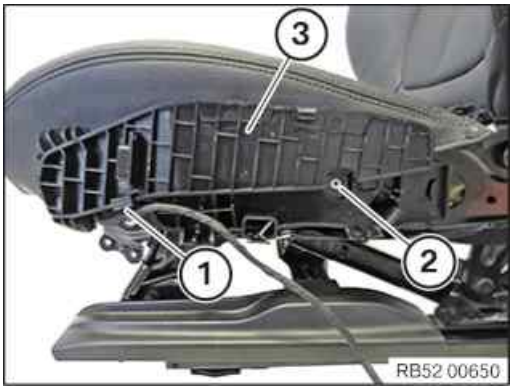
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52 13 ... Remove and install/replace support for operation on left or right front seat

Necessary preliminary tasks:

- Remove switch combination for seat adjustment

Removal:



Release cable clip (1).

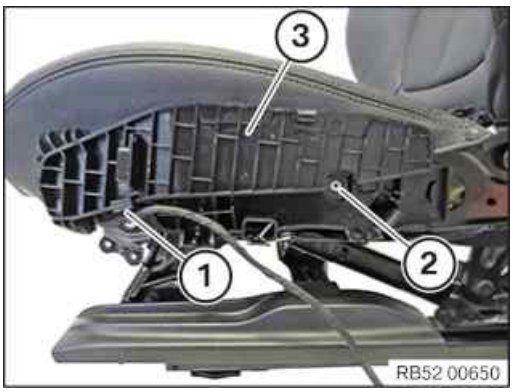
Lay out protective mats to protect interior equipment from swarf from drilled out rivet.

Drill out blind rivet (2).

Remove support (3) towards front.

Remove all rivet remnants.

Installation:



Insert support (3) from front and fix in place using blind rivet (2).

Secure cable clip (1).

Required follow-up work:

- Install operating unit for seat adjustment

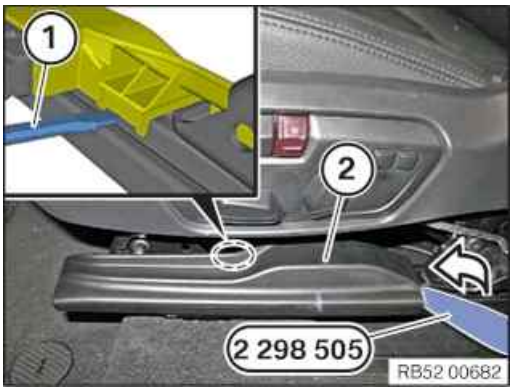
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52 13 ... Remove and install/replace trim on left or right front seat

Special tools required:

- 2 298 505

Removal:

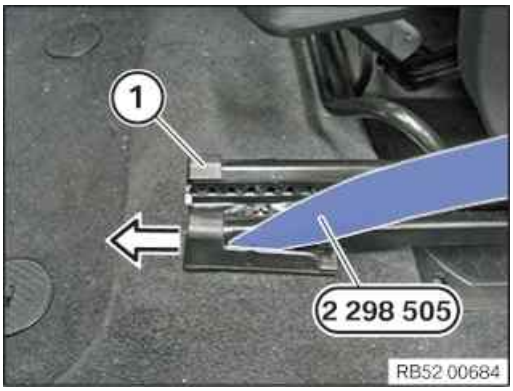


Side trim (for electric seat):

Slide screwdriver (1) from rear into marked area under the trim (2).

Raise trim (2) slightly using screwdriver (1).

Position special tool 2 298 505 at rear onto trim (1) and unclip forwards.

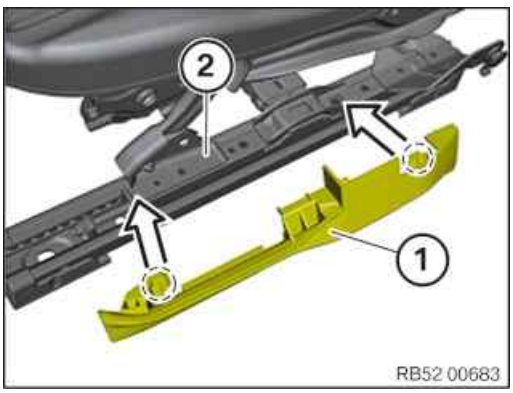


Seat rail trim:

Insert special tool 2 298 505 at side into trim (1).

Unclip cover (1) towards front.

Installation:

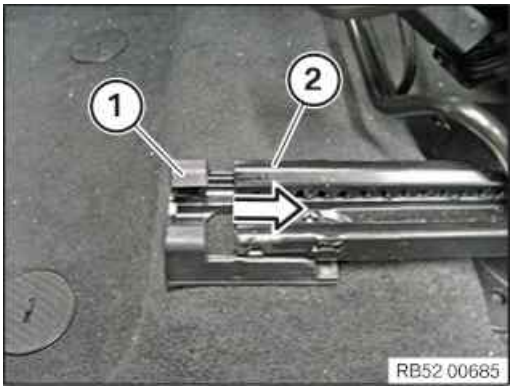


Side trim (for electric seat):

Position trim (1) from front with guides onto seat mechanism (2).

Clip trim (1) to rear into seat mechanism (2).

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Seat rail trim:

Slide trim (1) from front onto seat rail (2).

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52 13 001 Removing and installing front seat, driver's side

Attention!

The side airbag is integrated in the front seat.

Improper handling may trigger the side airbag and as a result cause injuries.

Observe safety regulations for handling components of airbag system.

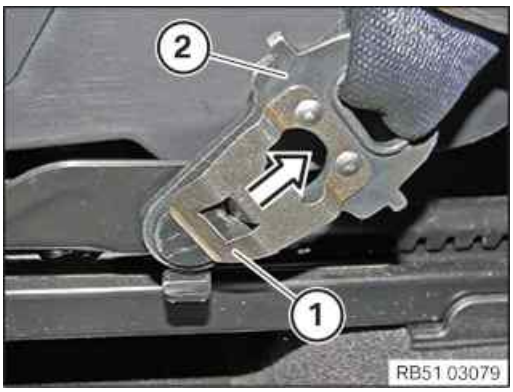
Necessary preliminary tasks:

- Disconnect battery earth lead

Removal:



Slide cover (1) on seat belt (2) upwards.



Turn end fitting (2) towards rear.

Pull lock washer (1) outwards carefully.

At the same time, feed out end fitting (2) towards front.

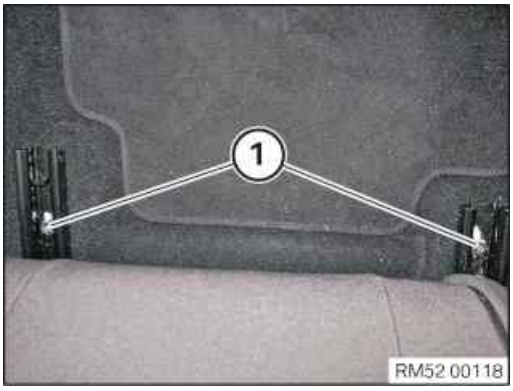
Remove end fitting (2) outwards.

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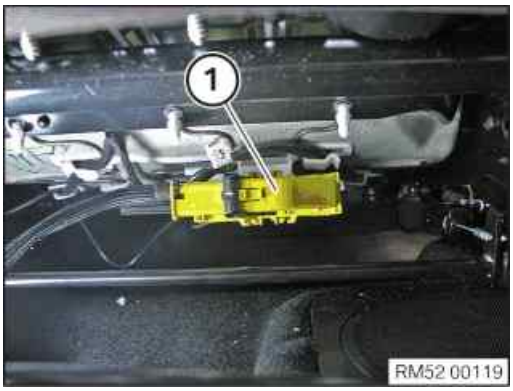
Adjust front seat completely to the rear.

Release front screws (1).



Adjust front seat completely to the front.

Release rear screws (1).



Unlock and disconnect the connector (1).

Attention!

Cover entrances with protective covers (risk of damage!)

Carefully lift out front seat.



Warning!

When carrying out further work on the front seat, it is absolutely imperative to observe the safety regulations on handling airbag modules and pyrotechnical seat belt tensioners

Improper handling can lead to triggering of the pyrotechnical seat belt tensioner or side airbag, resulting in injuries.

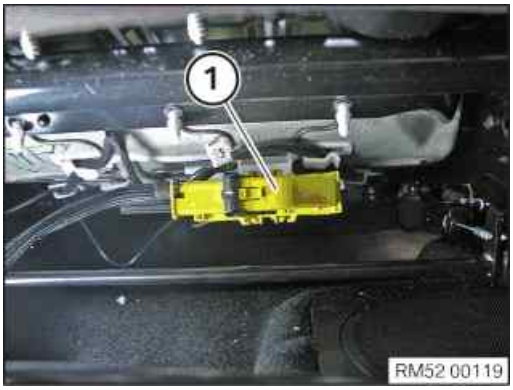
Installation:

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Installation note:

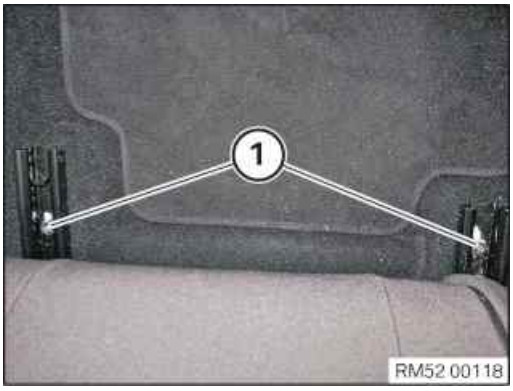
- Carpet must not get between seat rails and floor panel in area of attachment points (groaning noises)
- Insert all screws loose to avoid twisting
- Renew all screws and tighten to the specified torque

  Tightening torque 52 10 1AZ.



Carefully lift and position front seat in vehicle.

Connect the connector (1).



Tighten rear screws (1).*Note:*
Renew screws.

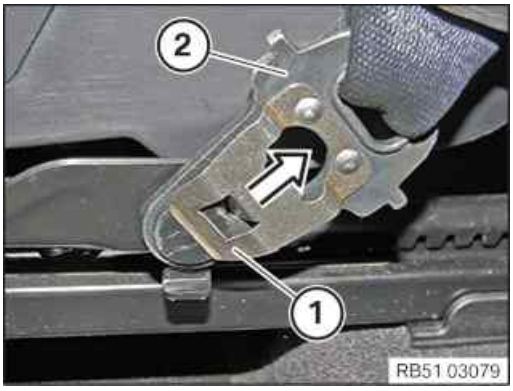
Tightening torque 52 10 1AZ.



Tighten front screws (1).*Note:*
Renew screws.

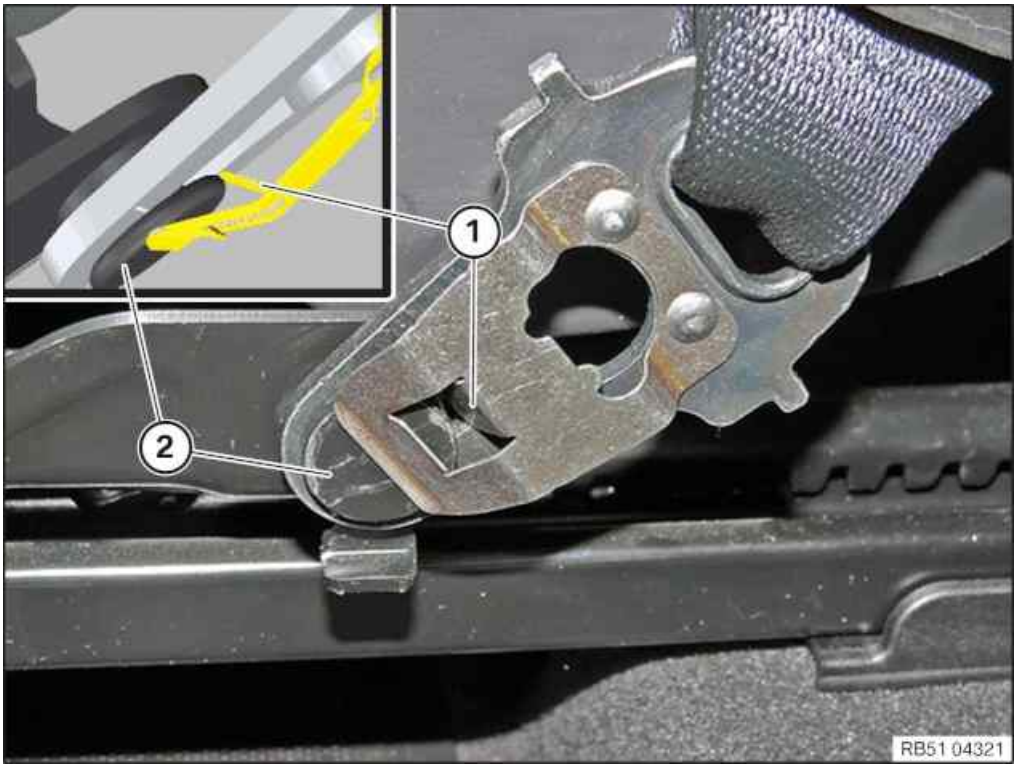
Tightening torque 52 10 1AZ.

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Feed in end fitting (2) and engage.**Attention!**

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



Retaining tab (1) must engage correctly behind the bolt (2).

Attention!

Malfunction if latch mechanism is not correct.

Ask a second person to check the latch mechanism (four-eyes principle).

Both persons must document that the work has been carried out correctly in the vehicle records.

Remember the following video animation.

Video animation "Fasten seat belt at the seat"

Your browser doesn't support HTML5 video.



Slide cover (1) on seat belt (2) downwards.**Attention!**

Perform the concluding check:

Pull end fitting forward, upward and backward.

If the end fitting is not correctly engaged, it cannot be turned on the bolt!

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Required follow-up work:

- Connect battery earth lead

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52 13 002 Removing and installing front seat, passenger's side

Attention!

The side airbag is integrated in the front seat.

Improper handling may trigger the side airbag and as a result cause injuries.

Observe safety regulations for handling components of airbag system.

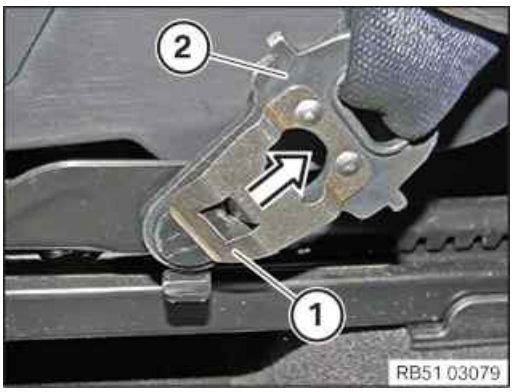
Removal:

Necessary preliminary tasks:

- Disconnect battery earth lead



Slide cover (1) on seat belt (2) upwards.



Turn end fitting (2) towards rear.

Pull lock washer (1) outwards carefully.

At the same time, feed out end fitting (2) towards front.

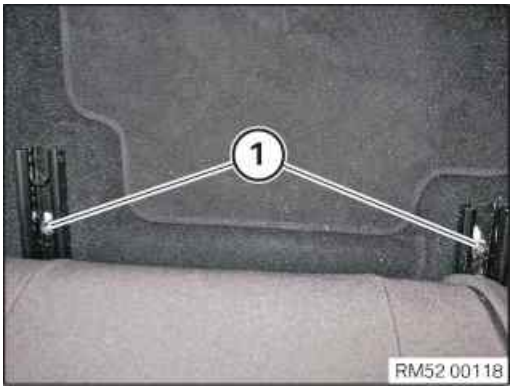
Remove end fitting (2) outwards.

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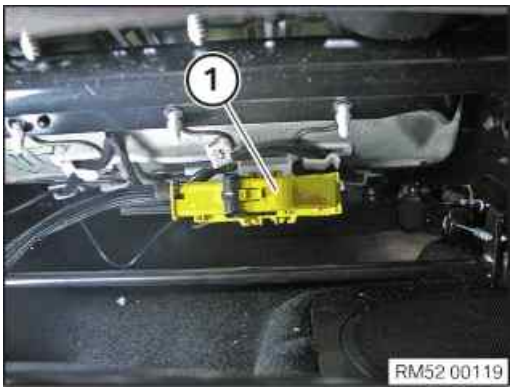
Adjust front seat completely to the rear.

Release front screws (1).



Adjust front seat completely to the front.

Release rear screws (1).



Unlock and disconnect the connector (1).

Attention!

Cover entrances with protective covers (risk of damage!)

Carefully lift out front seat.



Warning!

When carrying out further work on the front seat, it is absolutely imperative to observe the safety regulations on handling airbag modules and pyrotechnical seat belt tensioners

Improper handling can lead to triggering of the pyrotechnical seat belt tensioner or side airbag, resulting in injuries.

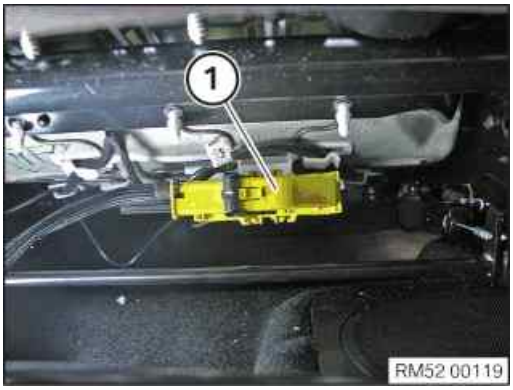
Installation:

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Installation note:

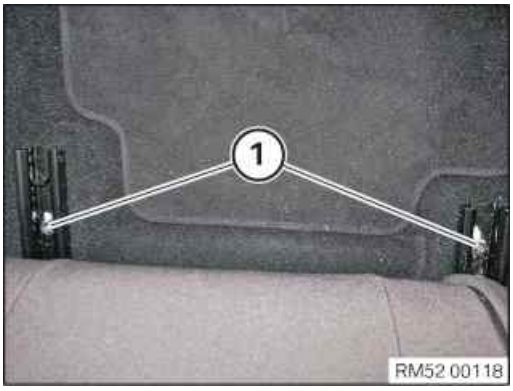
- Carpet must not get between seat rails and floor panel in area of attachment points (groaning noises)
- Insert all screws loose to avoid twisting
- Renew all screws and tighten to the specified torque

  Tightening torque 52 10 1AZ.



Carefully lift and position front seat in vehicle.

Connect the connector (1).



Tighten rear screws (1).*Note:*
Renew screws.

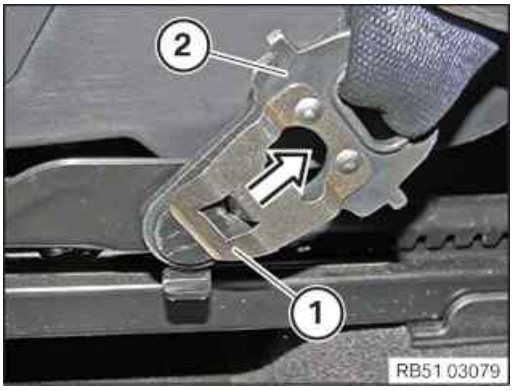
Tightening torque 52 10 1AZ.



Tighten front screws (1).*Note:*
Renew screws.

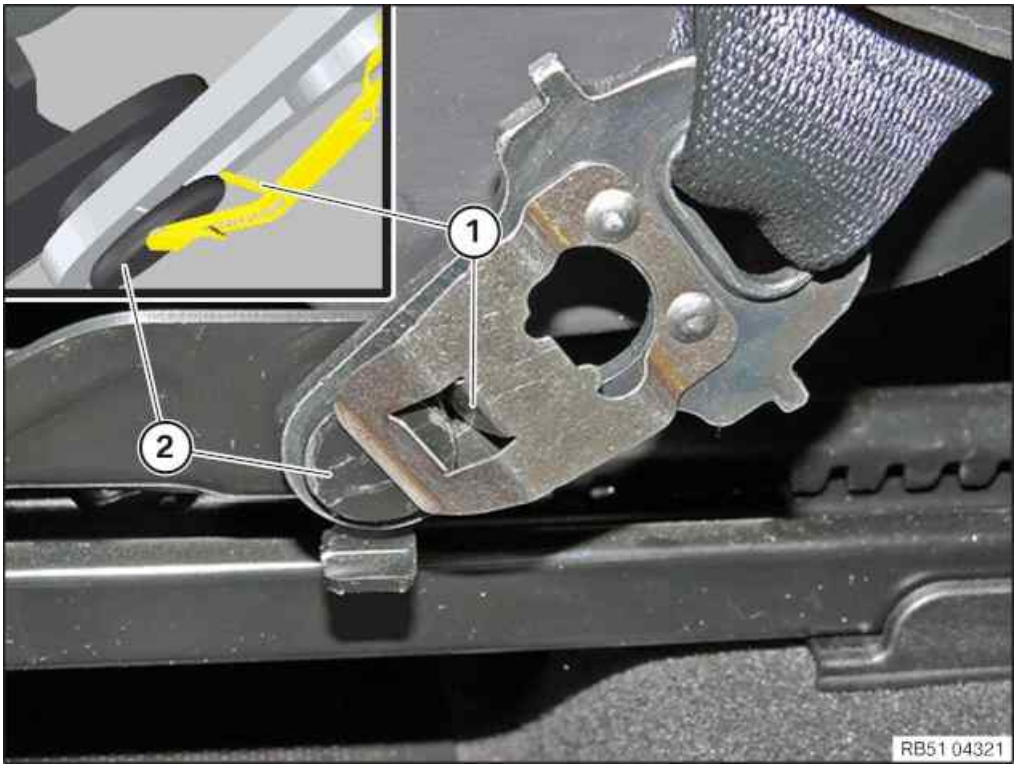
Tightening torque 52 10 1AZ.

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Feed in end fitting (2) and engage.**Attention!**

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



Retaining tab (1) must engage correctly behind the bolt (2).

Attention!

Malfunction if latch mechanism is not correct.

Ask a second person to check the latch mechanism (four-eyes principle).

Both persons must document that the work has been carried out correctly in the vehicle records.

Remember the following video animation.

Video animation "Fasten seat belt at the seat"

Your browser doesn't support HTML5 video.



Slide cover (1) on seat belt (2) downwards.**Attention!**

Perform the concluding check:

Pull end fitting forward, upward and backward.

If the end fitting is not correctly engaged, it cannot be turned on the bolt!

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Required follow-up work:

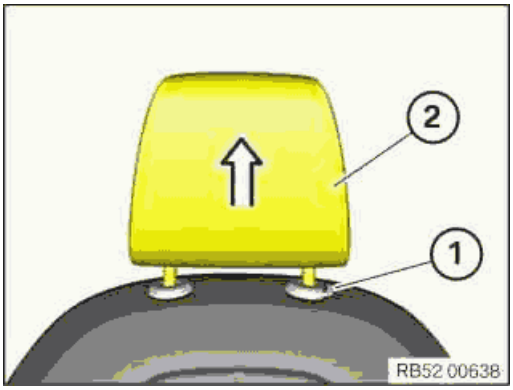
- Connect battery earth lead

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52 13 390 Removing and installing or replacing front left or right head restraint

[redacted]

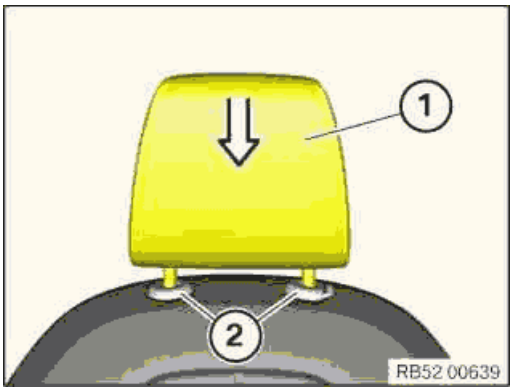
Removal:



Press height adjustment (1) and pull out head restraint (2) upwards.

[redacted]

Installation:



Insert head restraint (1) from above into guide sleeves (2) and latch into place.

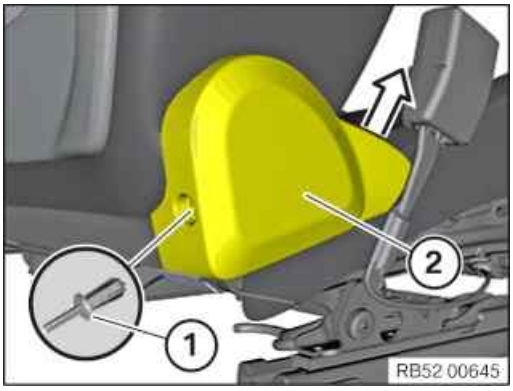
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52 13 041 Removing and installing or replacing inner cover on left or right front seat

Necessary preliminary work:

- Remove front seat

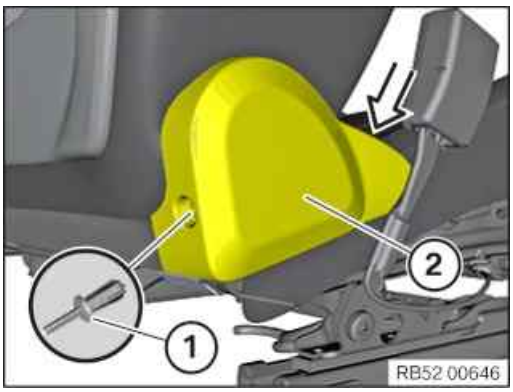
Removal:



Release expansion rivet (1).

Remove cover (2) in direction of arrow.

Installation:



Install cover (2) in the direction of the arrow.

Attach expanding rivet (1).

Required follow-up work:

- Install front seat

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52 13 198 Removing and installing or replacing rear panel on left or right front seat backrest

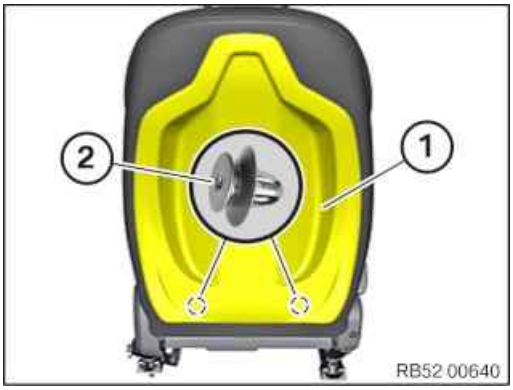
Removal:



Version with foldaway table:

Press together the lock and completely move the oddments table (1) upwards.

Detach the oddments table (1) from the rail.



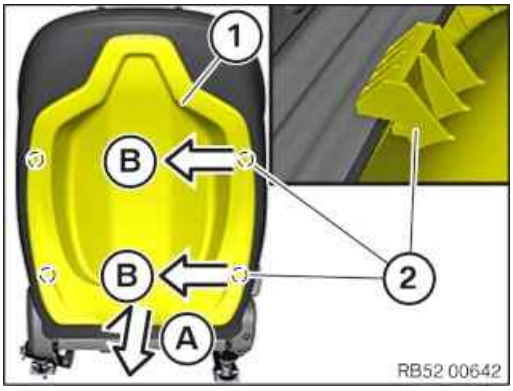
Loosen the rear panel (1) from the clips (2) towards the rear.



Reach behind rear panel (1) and push latch mechanisms (2) upwards.

Hold rear panel (1) to rear under tension.

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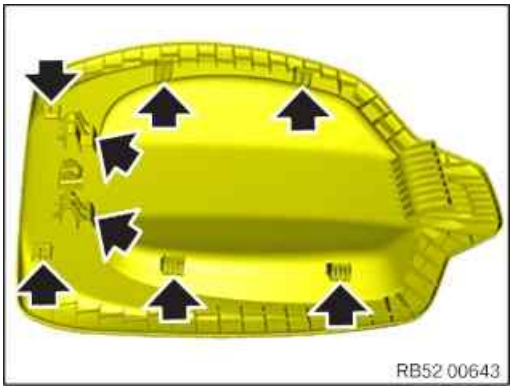


Pull rear panel (1) in lower area slightly to rear/down, direction of arrow (A).

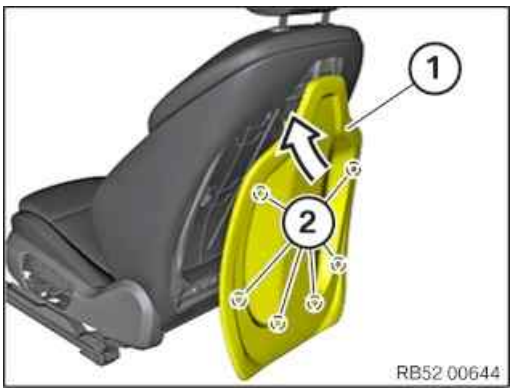
Push rear panel (1) in direction of arrow (B) and release latch mechanisms (2).

Thread rear panel (1) out of seat.

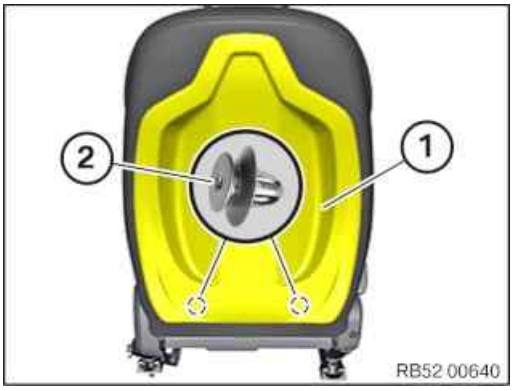
Installation:



Note:
Latch mechanisms and clips must not be missing or damaged.



Insert the rear panel into the seat and clip into the latch mechanisms (2) on the seat.



Secure the rear panel (1) on the seat using the clips (2).

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Version with foldaway table:

Press together the lock and insert the oddments table (1) into the rail at the very top.

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52 13 ... Removing and installing/exchanging guide for left or right front seat head restraint

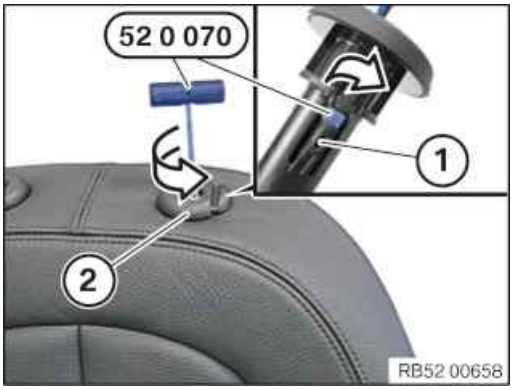
Special tools required:

- 52 0 070

Necessary preliminary tasks:

- Remove head restraint

Removal:

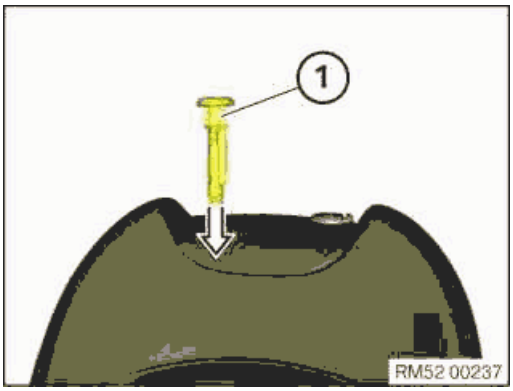


Insert special tool 52 0 070 into guide hole of sleeve (2) up to upper area of retaining lug.

Feed in unlocking tab of special tool behind the latch mechanism (1).

Turn tool to release sleeve (2) and pull out by lifting upwards.

Installation:



Insert guide (1) from above and engage.

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Required reworking:

- Install head restraint

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52 15 530 Removing and installing/replacing backrest frame for left or right front seat

Attention!

The side airbag is integrated in the front seat.

Improper handling may trigger the side airbag and as a result cause injuries.

Observe safety regulations for handling components of airbag system.

Necessary preliminary tasks:

- Remove rear panel
- Remove seat
- Remove guides for head restraint
- Remove inner and outer cover



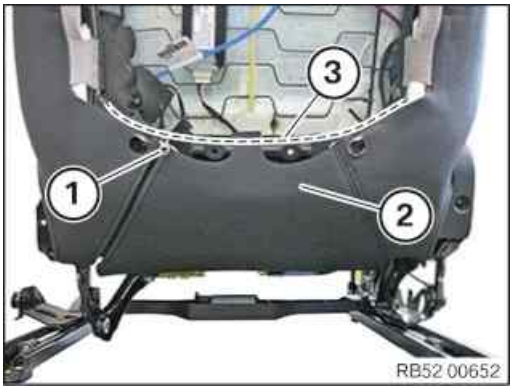
Use of the universal seat mount is recommended for carrying out expert repairs.

Removal:



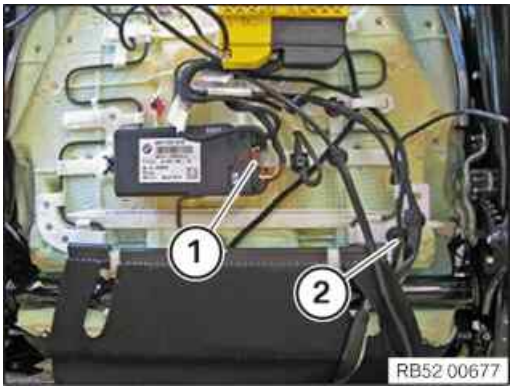
Detach tensioning straps (1) at left and right from seat mechanism.

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Open zip fastener (1).

Detach seat cover (2) in area (3) from backrest frame.

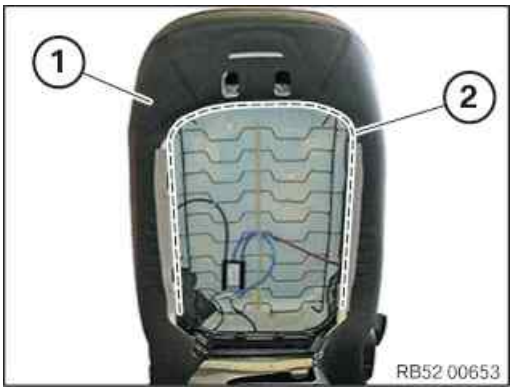


Version with seat heating:

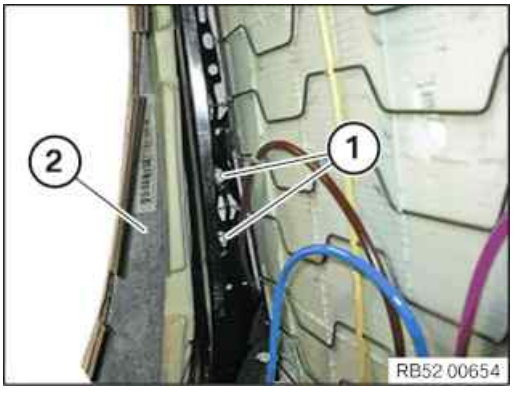
Unfasten plug connection (1) and disconnect.

Unfasten cable strap (2).

Feed back cable.



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



Unscrew nuts (1).

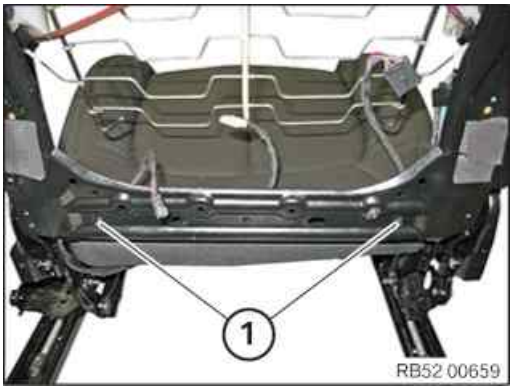
Feed side airbag downwards and out of backrest cover (2).

Remove backrest cover (2) with upholstery upwards from backrest frame.

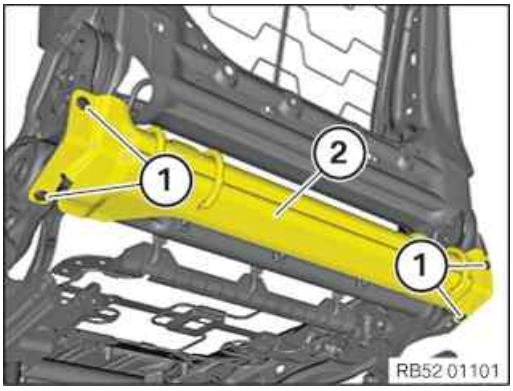
Depending on version:

- Remove backrest width adjustment
- Remove backrest width adjustment with lumbar support
- Remove lumbar support

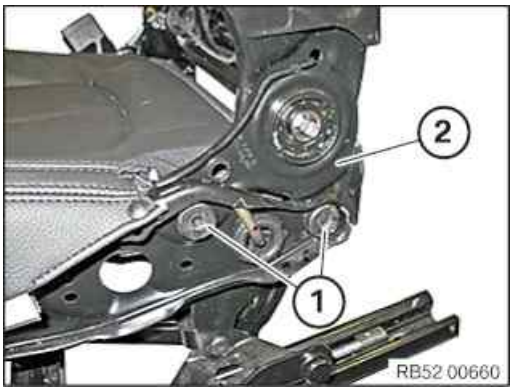
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Release wiring harness at clips (1) from backrest frames.
Carefully feed wiring harness out of backrest frame.

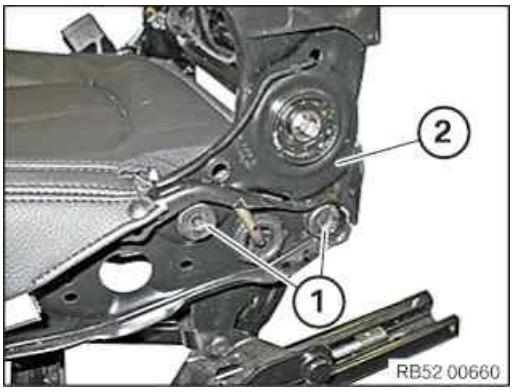


Equipment specification with Isofix:
Drill out rivet (1).
Take off holder (2).
Remove remnants of rivets.



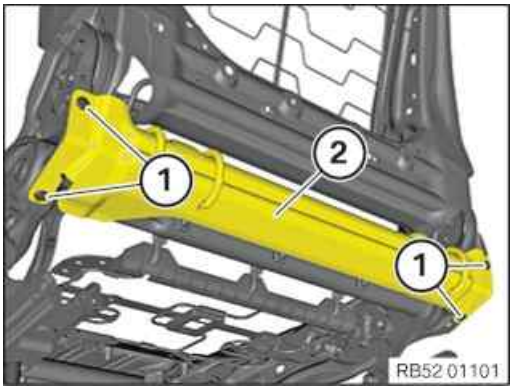
Release screws (1) on left and right.
Remove backrest frame (2).

Installation:



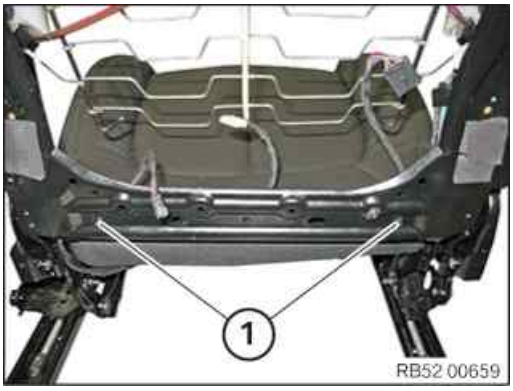
Fasten backrest frame (2) in place using screws (1).
Tightening torque 52 10 2AZ.

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Equipment specification with Isofix:

Attach holder (2) using the rivets (1).

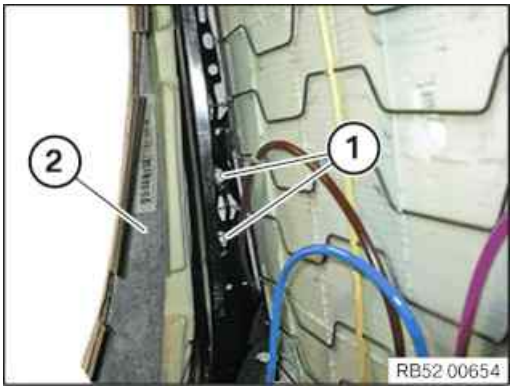


Feed wiring harness into backrest frame.

Attach wiring harness with clips (1) on backrest frame.

Depending on version:

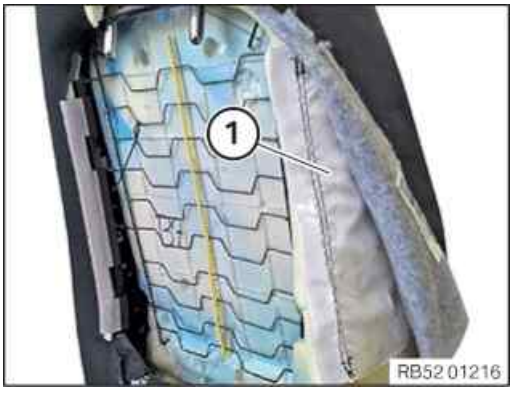
- Install backrest width adjustment
- Install backrest width adjustment with lumbar support
- Install lumbar support



Position backrest cover (2) with upholstery from above onto backrest frame.

Feed in side airbag from below into backrest cover (2).

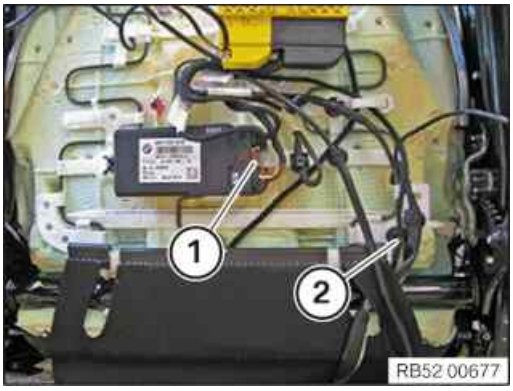
Tighten down nuts (1).



Note:
As per the version, the backrest cover can have one airbag pouch (1) on both sides.

Ensure that the unused airbag pouch (1) is kept tightly and crease-free between the cushion and the backrest cover.

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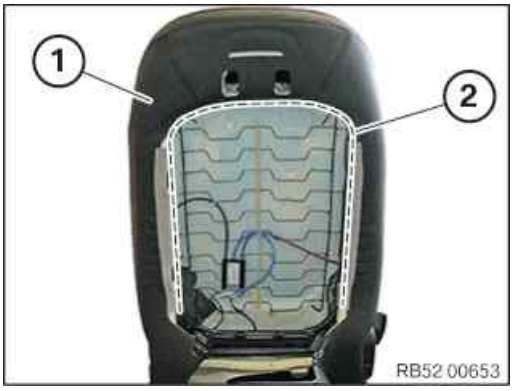


Version with seat heating:

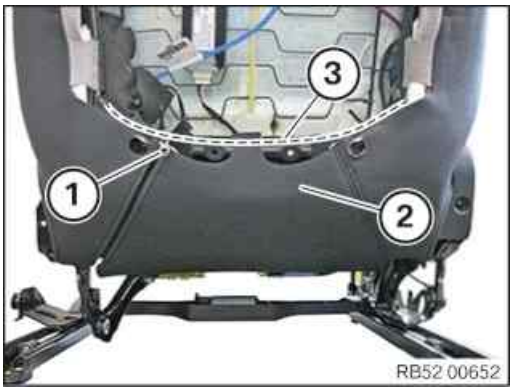
Feed in cable.

Secure cable clip (2).

Connect the connector (1).



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



Attach seat cover (2) in area (3) to backrest frame.

Close zip fastener (1).



Attach tensioning straps (1) at left and right to seat mechanism.

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Required follow-up work:

- Mount inner and outer cover
- Mount guides for head restraint
- Install the seat
- Mount rear panel

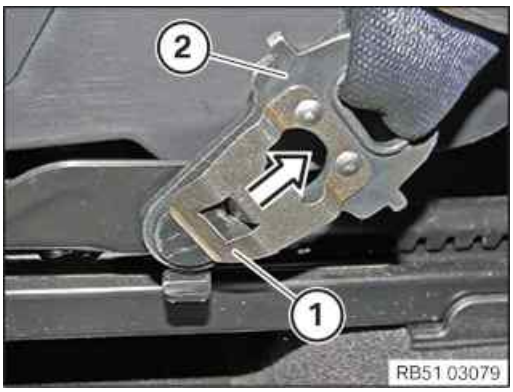
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52 14 040 Removing and installing/replacing outer cover on left or right front seat (electric)

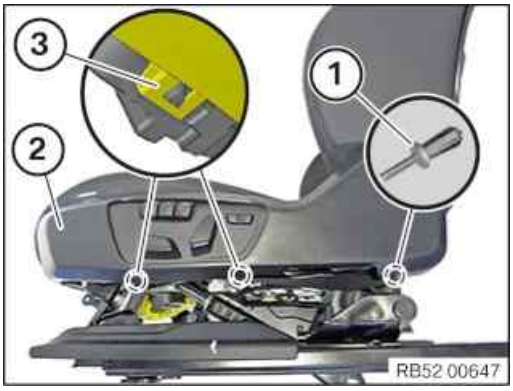
Removal:



Slide cover (1) on seat belt (2) upwards.



Turn end fitting (2) towards rear.
Carefully pull the retaining clip (1) towards the outside.
At the same time, feed out end fitting (2) towards front.
Remove end fitting (2) outwards.



Release expansion rivet (1).
Loosen cover (2) from the latch mechanisms (3) towards the outside.

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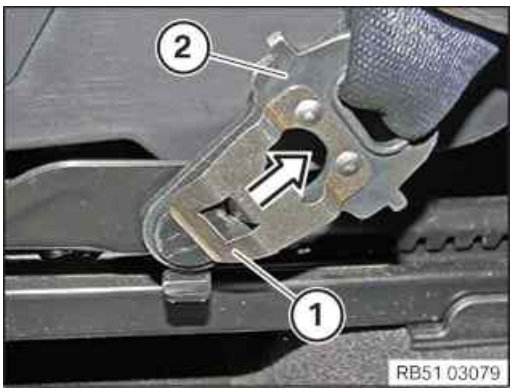
Slightly pull cover (1) outwards in lower area and pull off the latch mechanisms (2) towards the top.

Installation:



Position cover (1) on front seat and secure to the upper and lower latch mechanisms.

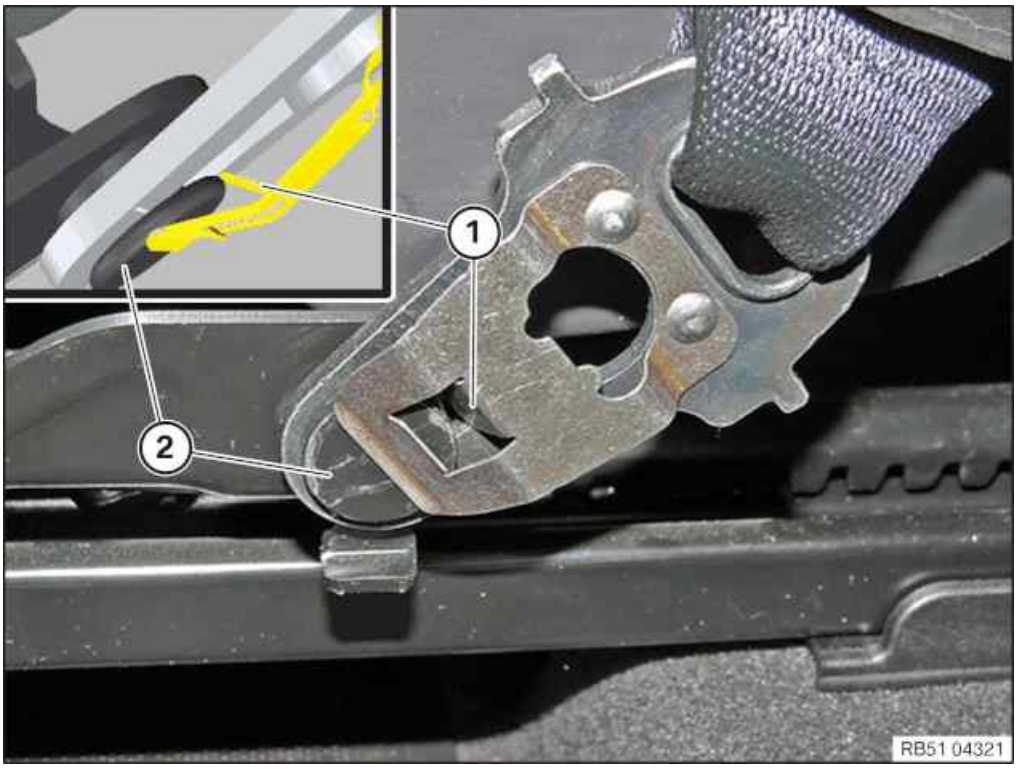
Position expanding rivet (2).



Insert end fitting (2).**Attention!**

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

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Retaining tab (1) must engage correctly behind the bolt (2).

Attention!

Malfunction if latch mechanism is not correct.

Ask a second person to check the latch mechanism (four-eyes principle).

Both persons must document that the work has been carried out correctly in the vehicle records.

Remember the following video animation.

Video animation "Fasten seat belt at the seat"

Your browser doesn't support HTML5 video.



Slide cover (1) on seat belt (2) downwards.**Attention!**

Perform the concluding check:

Pull end fitting forward, upward and backward.

If the end fitting is not correctly engaged, it cannot be turned on the bolt!

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52 13 400 Replace seat cover for left or right front seat (normal).

Special tools required:

- 52 0 050

Warning!

Danger of injury!

The seat frame has very sharp edges that can cause injuries from cuts.

Exercise extreme caution and wear work gloves as required when carrying out any repair work in the area of the seat frame.

Important!

Risk of damage on sharp-edged seat mechanism.

Guide all cables carefully through seat and backrest mechanism.

Make sure cable is routed without kinks and tension.

Make sure plug connections are correctly locked.

Make sure connectors are correctly seated in latch mechanisms.

Important!

- Microencapsulated screws must be coated with Loctite if they are to be reused
- Screw connection must be completed within 20 min. (start of hardening)
- Microencapsulated screws must not be retightened
- Thread of nut must be cleaned beforehand in event of repeated use

Necessary preliminary tasks:

- Remove front seat
- Remove inner cover
- Remove outer cover

Removal:

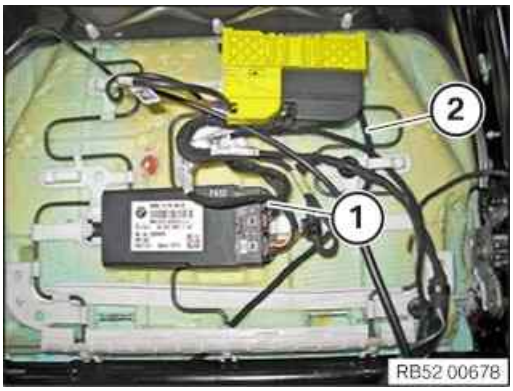
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Use of the universal seat mount is recommended for carrying out professional repairs.



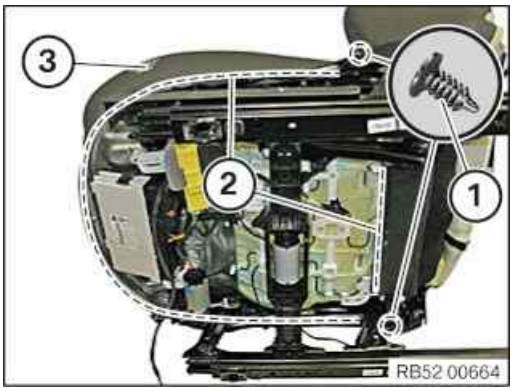
Detach tensioning straps (1) at left and right from seat mechanism.



<u>On versions with seat heating:</u>

Unfasten plug connection (1) and disconnect.

Feed back attendant cable (2).



Release clamps (1).

Unhook welt (2).

Remove seat cover (3) with support.

If necessary, feed out cable.

Important!

Feed the wiring harness carefully through the seat and backrest mechanism as the edges of the frame can be sharp.

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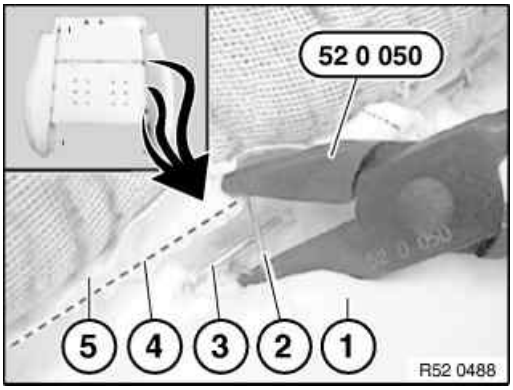
Release all clamps in marked area.

Remove seat cover from upholstery.

Important!

Remove all remnants of clamps from seat cover and upholstery.

Installation:

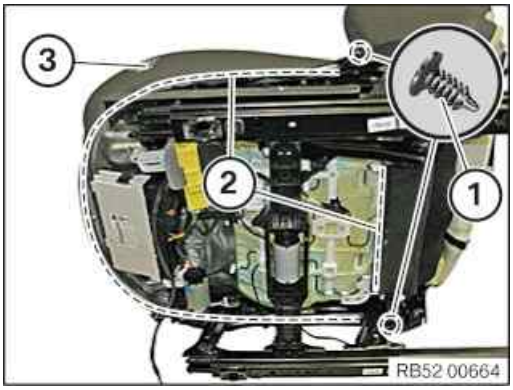


Position seat cover.

Parts: Replace upholstery clamps.

Bend new clamps (2) with special tool 52 0 050 .

1. Upholstery
2. Clamp
3. Trim wire in upholstery
4. Trim wire in seat cover
5. Seat cover



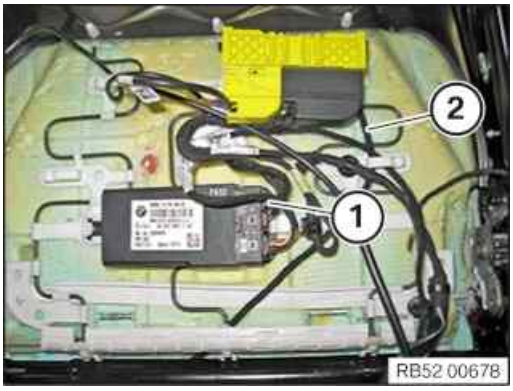
Mount seat cover (3) with upholstery onto seat mechanism.

Important!

Feed the wiring harness carefully through the seat and backrest mechanism as the edges of the frame can be sharp.

Attach welt (2).

Fasten clips (1).



On versions with seat heating:

Feed in cable (2).

Connect the plug (1).

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Attach tensioning straps (1) at left and right to seat mechanism.

Required follow-up work:

- Install outer cover
- Install inner cover
- Install front seat

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52 13 407 Replacing backrest cover for driver's seat

Special tools required:

- 52 0 050

Attention!

The side airbag is integrated in the front seat.

Improper handling may trigger the side airbag and as a result cause injuries.

Observe safety regulations for handling components of airbag system.

Necessary preliminary tasks:

- Remove rear panel
- Remove seat
- Remove guides for head restraint
- Remove inner and outer cover



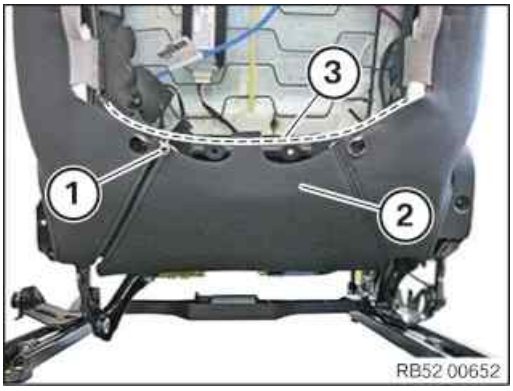
Use of the universal seat mount is recommended for carrying out expert repairs.

Removal:

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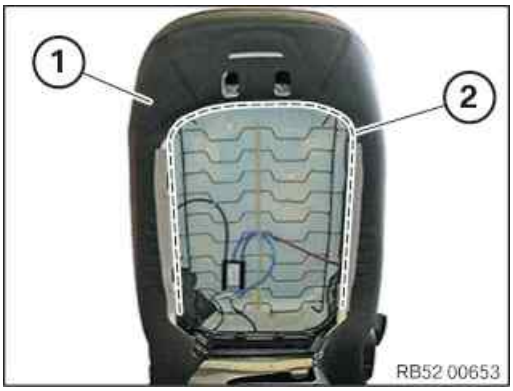


Detach tensioning straps (1) at left and right from seat mechanism.

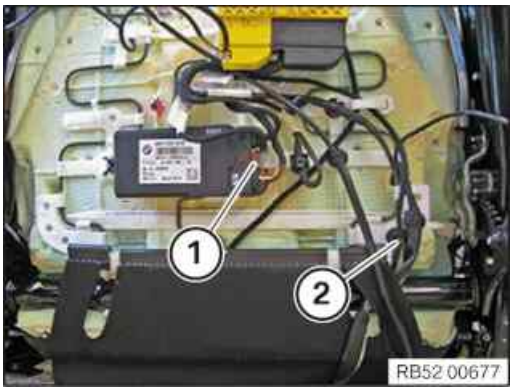


Open zip fastener (1).

Detach seat cover (2) in area (3) from backrest frame.



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



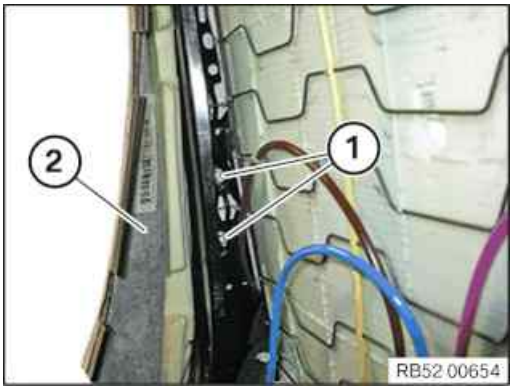
<u>On versions with seat heating:</u>

Unfasten plug connection (1) and disconnect.

Unfasten cable strap (2).

Feed back cable.

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Unscrew nuts (1).

Feed side airbag downwards and out of backrest cover (2).

Remove backrest cover (2) with upholstery upwards from backrest frame.



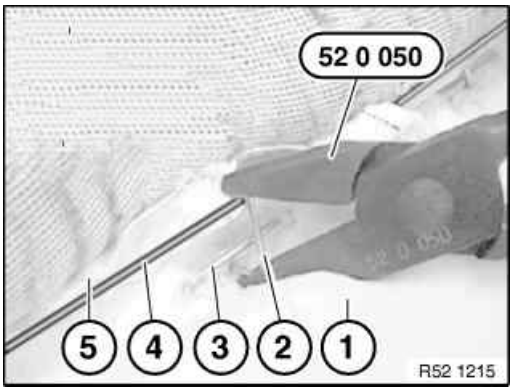
Release all clamps in marked area.

Remove seat cover from upholstery.

Attention!

Remove all remnants of clamps from seat cover and upholstery.

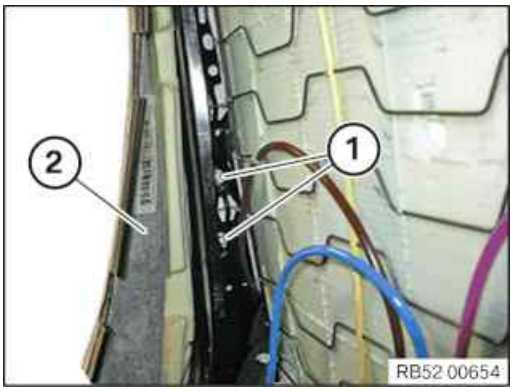
Installation:



Parts: Replace clamps (2).

Insert new clamp (2) with special tool 52 0 050 and bend closed.

1. Upholstery
2. Clamp
3. Trim wire in upholstery
4. Trim wire in seat cover
5. Backrest cover

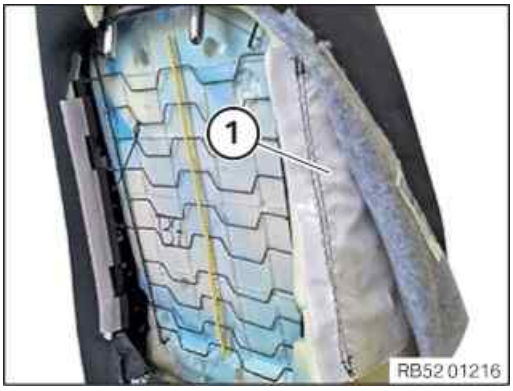


Position backrest cover (2) with upholstery from above onto backrest frame.

Feed in side airbag from below into backrest cover (2).

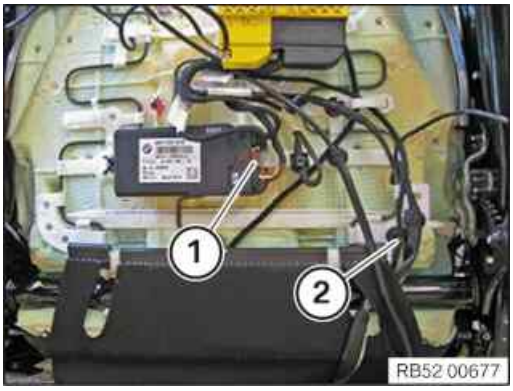
Tighten down nuts (1).

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Note:
As per the version, the backrest cover can have one airbag pouch (1) on both sides.

Ensure that the unused airbag pouch (1) is kept tightly and crease-free between the cushion and the backrest cover.

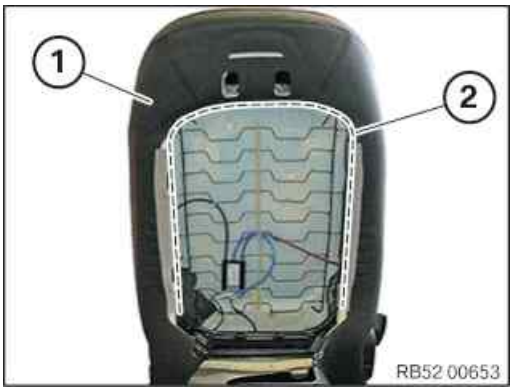


<u>On versions with seat heating:</u>

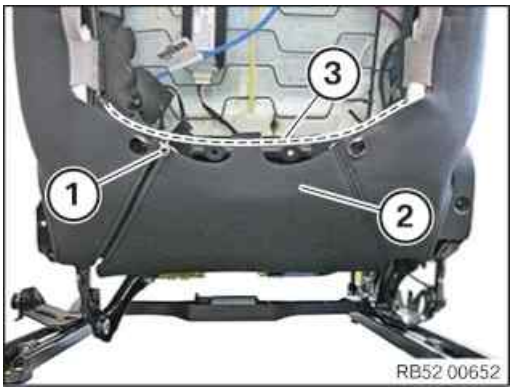
Feed in cable.

Secure cable clip (2).

Connect the connector (1).



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



Attach seat cover (2) in area (3) to backrest frame.

Close zip fastener (1).

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Attach tensioning straps (1) at left and right to seat mechanism.

Required follow-up work:

- Mount inner and outer cover
- Mount guides for head restraint
- Install the seat
- Mount rear panel

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52 13 408 Replacing backrest cover for front passenger seat

Special tools required:

- 52 0 050

Attention!

The side airbag is integrated in the front seat.

Improper handling may trigger the side airbag and as a result cause injuries.

Observe safety regulations for handling components of airbag system.

Necessary preliminary tasks:

- Remove rear panel
- Remove seat
- Remove guides for head restraint
- Remove inner and outer cover



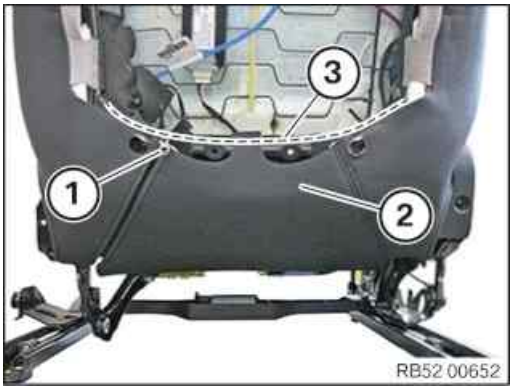
Use of the universal seat mount is recommended for carrying out expert repairs.

Removal:

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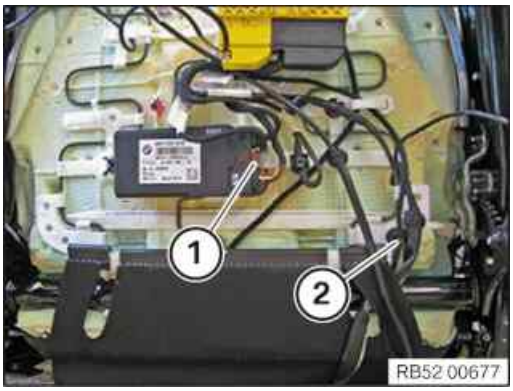


Detach tensioning straps (1) at left and right from seat mechanism.



Open zip fastener (1).

Detach seat cover (2) in area (3) from backrest frame.

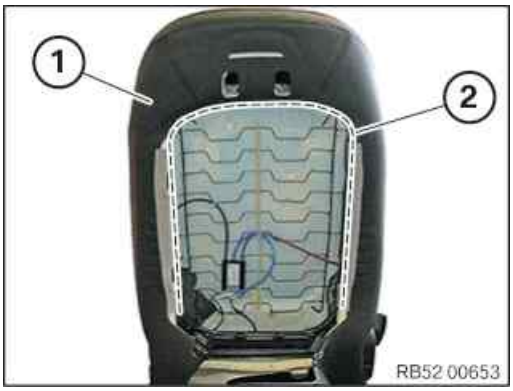


<u>On versions with seat heating:</u>

Unfasten plug connection (1) and disconnect.

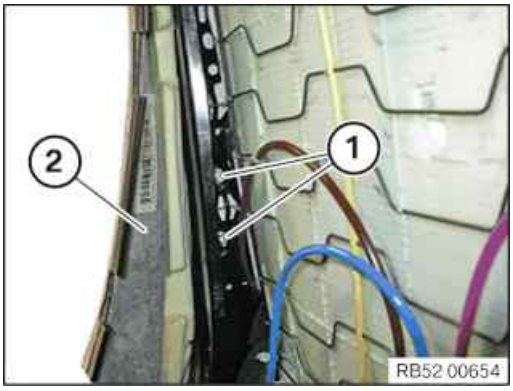
Unfasten cable strap (2).

Feed back cable.



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

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Unscrew nuts (1).

Feed side airbag downwards and out of backrest cover (2).

Remove backrest cover (2) with upholstery upwards from backrest frame.



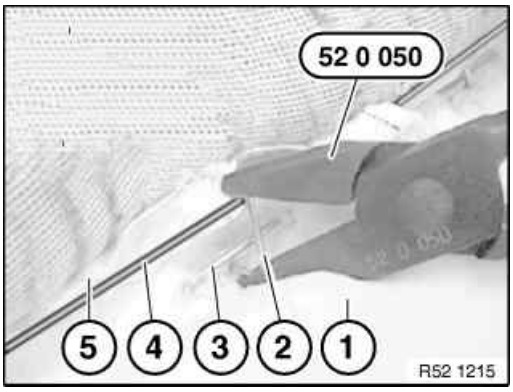
Release all clamps in marked area.

Remove seat cover from upholstery.

Attention!

Remove all remnants of clamps from seat cover and upholstery.

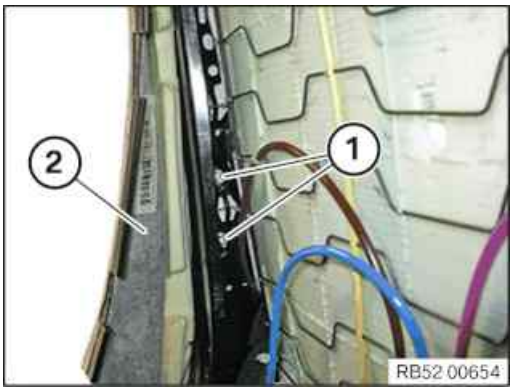
Installation:



Parts: Replace clamps (2).

Insert new clamp (2) with special tool 52 0 050 and bend closed.

1. Upholstery
2. Clamp
3. Trim wire in upholstery
4. Trim wire in seat cover
5. Backrest cover

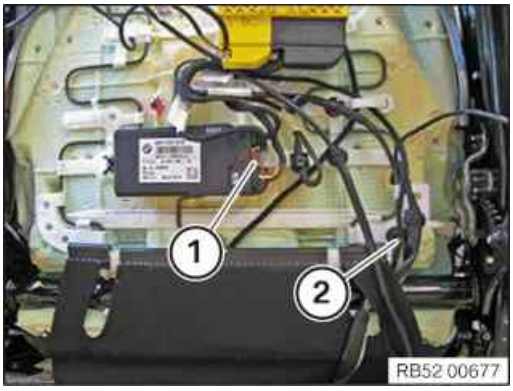


Position backrest cover (2) with upholstery from above onto backrest frame.

Feed in side airbag from below into backrest cover (2).

Tighten down nuts (1).

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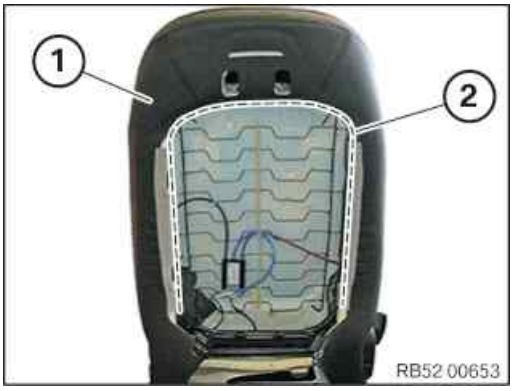


<u>On versions with seat heating:</u>

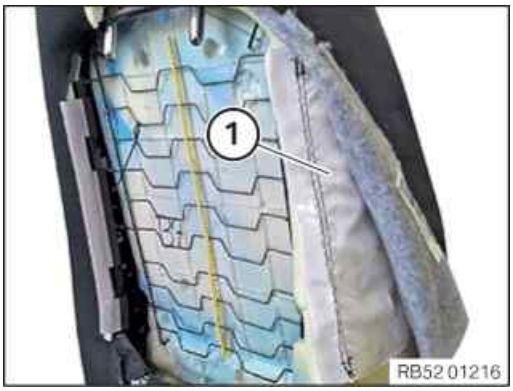
Feed in cable.

Secure cable clip (2).

Connect the connector (1).

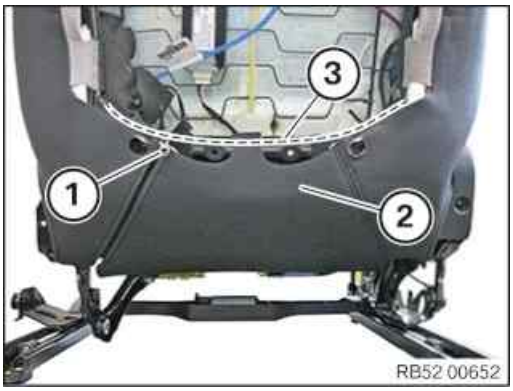


Attach seat cover (1) in area (2) to backrest frame.



Note:
As per the version, the backrest cover can have one airbag pouch (1) on both sides.

Ensure that the unused airbag pouch (1) is kept tightly and crease-free between the cushion and the backrest cover.



Attach seat cover (2) in area (3) to backrest frame.

Close zip fastener (1).

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Attach tensioning straps (1) at left and right to seat mechanism.

Required follow-up work:

- Mount inner and outer cover
- Mount guides for head restraint
- Install the seat
- Mount rear panel

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52 13 417 Replacing upholstery for driver's seat



Operation is described in:

- Replacing seat cover an driver's seat on left or right

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52 13 422 Replacing upholstery for driver's seat backrest



Operation is described in:

Replace backrest cover for driver's seat.

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52 13 418 Replacing upholstery for front passenger seat



Important!

US/CDN front passenger seat (with CIS mat) only:

A faulty facing may only be replaced completely with the CIS mat.

New facing is supplied with CIS mat and, if necessary, seat heating.

After installation, the CIS mat must be enabled with the diagnosis system.

Individual parts not available.



Operation is described in:

- Replacing seat cover an front passenger seat on left or right



Enabling seat occupancy detector (CIS mat):

- Connect BMW diagnosis system
- Carry out service function or test module

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52 13 423 Replacing upholstery for front passenger seat backrest



Operation is described in:

Replace backrest cover for front passenger seat.

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52 13 526 Remove and install/replace (manually) seat mechanism on left or right front seat

Important!

The side airbag is integrated in the front seat.

Improper handling may trigger the side airbag and as a result cause injuries.

Observe safety regulations for handling components of airbag system.



Use of the universal seat mount is recommended for carrying out professional repairs.

Necessary preliminary work:

- Remove seat cover with upholstery
- Remove lower strap on front left or right

Depending on version:

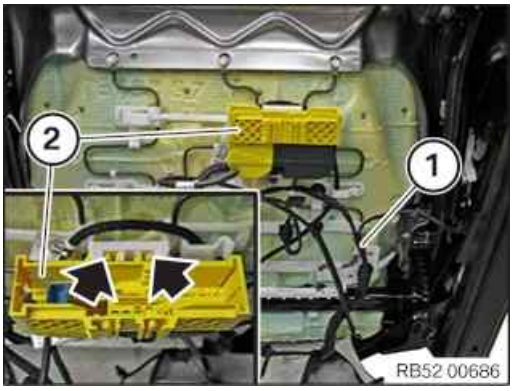
- Remove control unit for seat heating
- Remove footwell lighting

Only front passenger seat, not US:

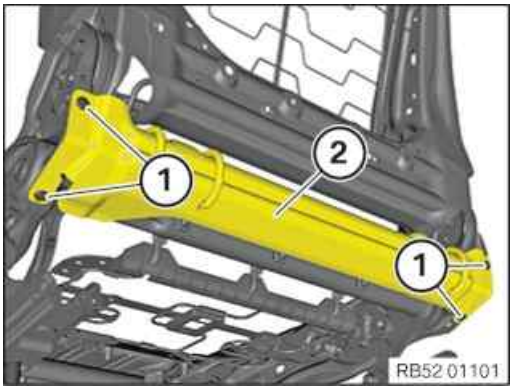
- Remove seat occupancy mat for SBE

Removal:

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Remove wiring harness (1) from all cable clips.
Unlock connector housing (2) and detach from seat mechanism to rear.
Feed out wiring harness (1) to rear away from seat mechanism.



Equipment specification with Isofix:
Drill out rivet (1).
Take off holder (2).
Remove remnants of rivets.



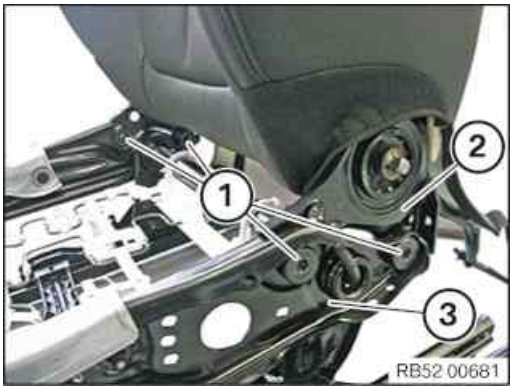
Release screws (1).
Remove backrest frame (2) from seat frame (3).

Depending on version:

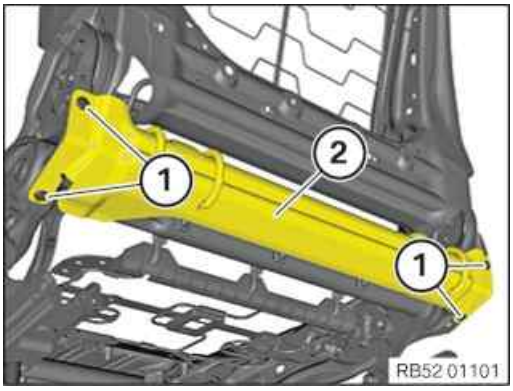
- Remount lever for seat height adjustment
- Remount lever for seat angle adjustment
- Remount all trim parts from front seat

Installation:

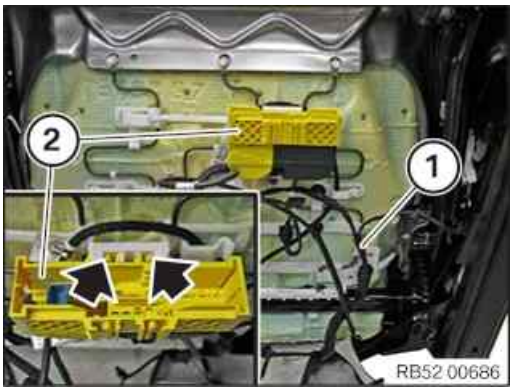
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Fasten backrest frame (2) to seat frame (3) using screws (1).
Tightening torque 52 10 2AZ.



Equipment specification with Isofix:
Attach holder (2) using the rivets (1).



Feed in wiring harness (1).
Latch connector housing (2) into seat mechanism.
Fasten wiring harness (1) to all cable clips.

Required follow-up work:

Only front passenger seat, not US:

- Mount seat occupancy mat for SBE

Depending on version:

- Mount footwell lighting
- Mount control unit for seat heating

All variants:

- Mount seat cover with upholstery
- Mount lower strap at front left or right

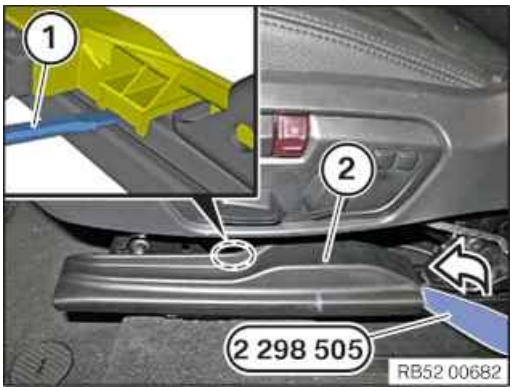
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52 13 ... Remove and install/replace trim on left or right front seat

Special tools required:

- 2 298 505

Removal:

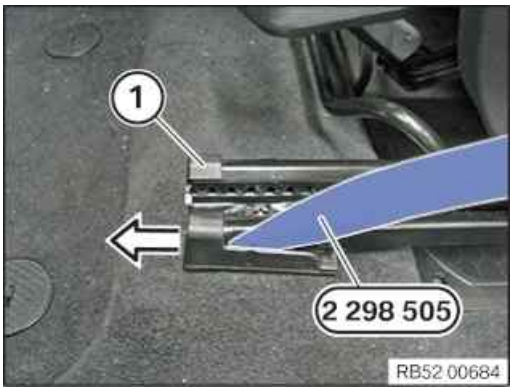


Side trim (for electric seat):

Slide screwdriver (1) from rear into marked area under the trim (2).

Raise trim (2) slightly using screwdriver (1).

Position special tool 2 298 505 at rear onto trim (1) and unclip forwards.

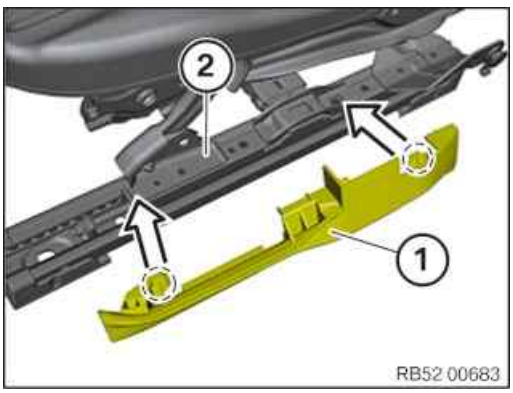


Seat rail trim:

Insert special tool 2 298 505 at side into trim (1).

Unclip cover (1) towards front.

Installation:

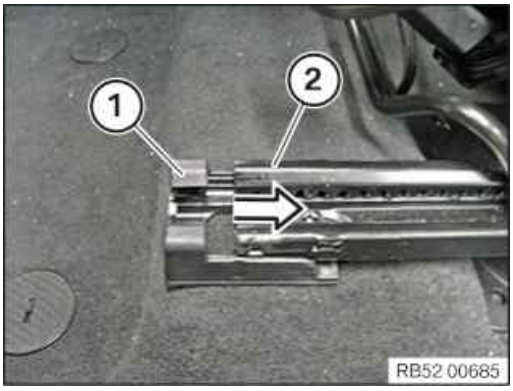


Side trim (for electric seat):

Position trim (1) from front with guides onto seat mechanism (2).

Clip trim (1) to rear into seat mechanism (2).

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Seat rail trim:

Slide trim (1) from front onto seat rail (2).

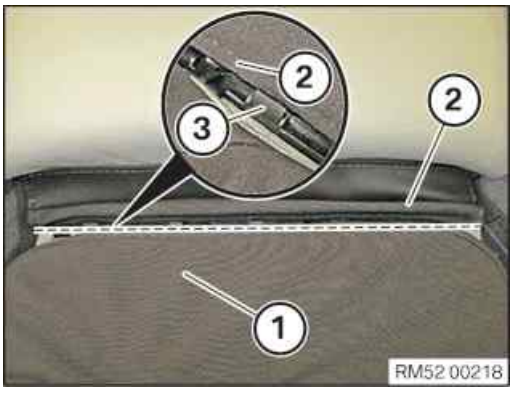
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52 15 050 Remove or install left or right thigh support from/on the front seat (sport/manual)

Important!

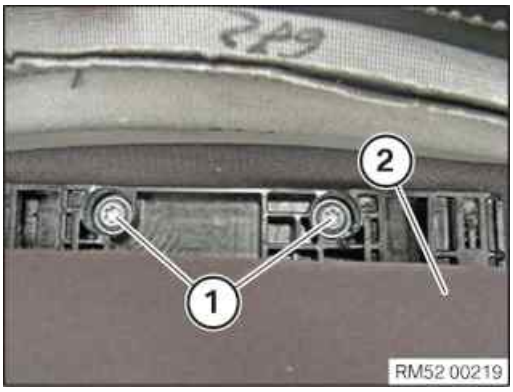
- Microencapsulated screws must be coated with Loctite if they are to be reused
- Screw connection must be completed within 20 min. (start of hardening)
- Microencapsulated screws must not be retightened
- Thread of nut must be cleaned beforehand in event of repeated use

Removal:



Adjust thigh support (1) towards the front.

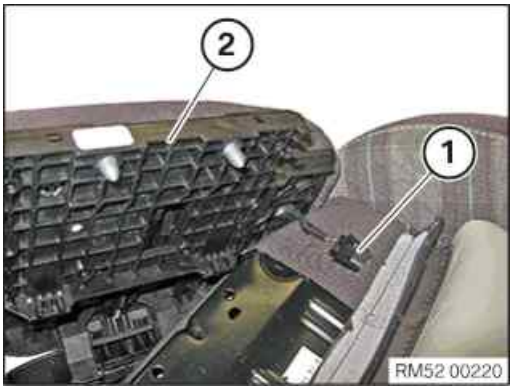
Lever out welt (2) of seat cover out of bracket (3).



Release screws (1).

Detach thigh support (2) towards the front and remove.

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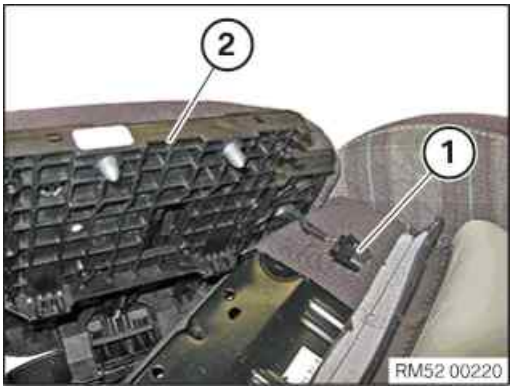


Version with seat heating only:

Unfasten plug connection (1) and disconnect.

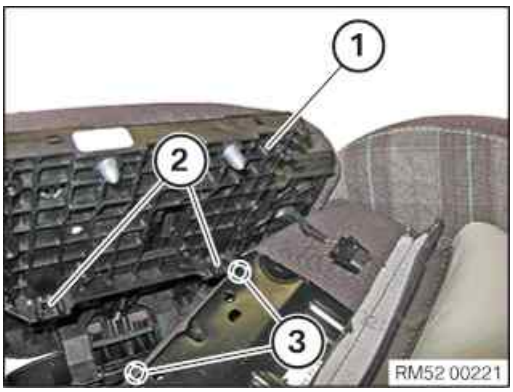
Remove thigh support (2).

Installation:

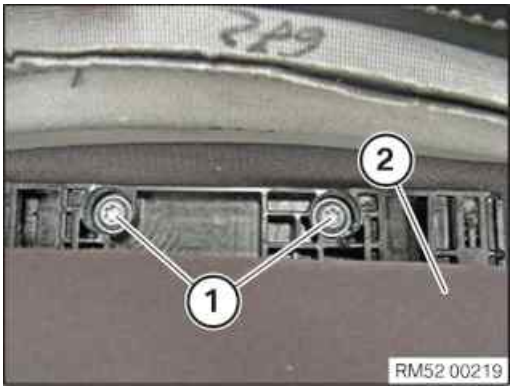


Version with seat heating only:

Position thigh support (2) and connect connector (1).

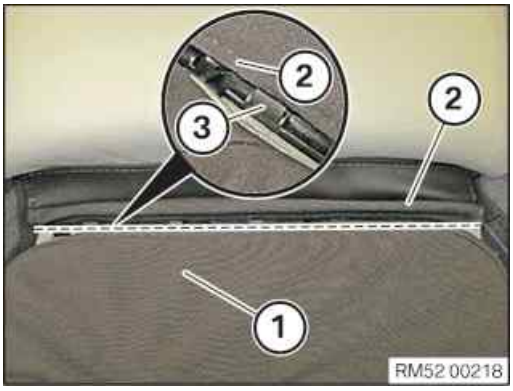


Feed in thigh support (1) with guides (2) into corresponding openings on seat frame (3).



Tighten down screws (1).

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Attach welt (2) of seat cover in bracket (3).

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52 13 001 Removing and installing front seat, driver's side

Attention!

The side airbag is integrated in the front seat.

Improper handling may trigger the side airbag and as a result cause injuries.

Observe safety regulations for handling components of airbag system.

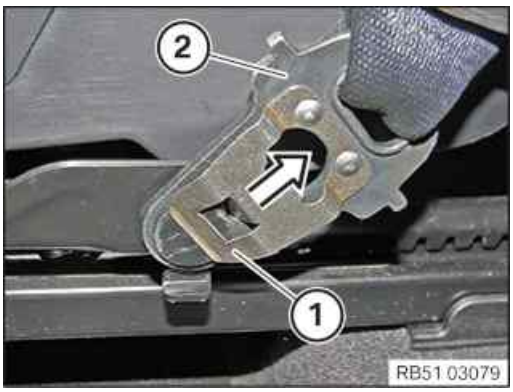
Necessary preliminary tasks:

- Disconnect battery earth lead

Removal:



Slide cover (1) on seat belt (2) upwards.



Turn end fitting (2) towards rear.

Pull lock washer (1) outwards carefully.

At the same time, feed out end fitting (2) towards front.

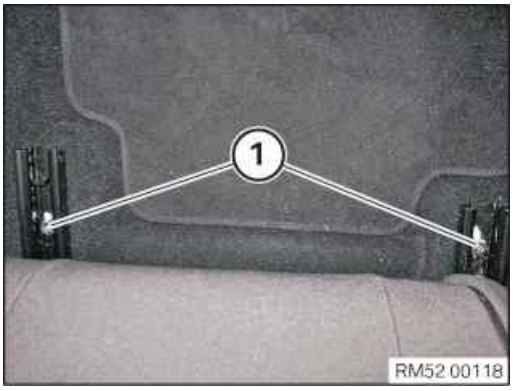
Remove end fitting (2) outwards.

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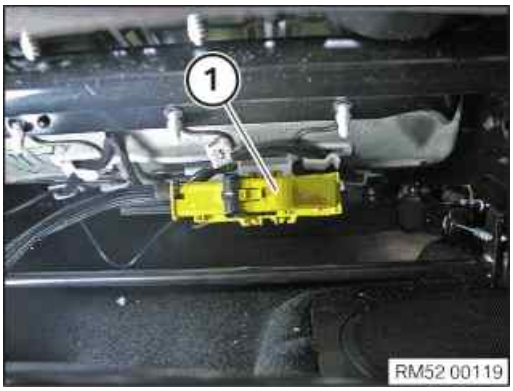
Adjust front seat completely to the rear.

Release front screws (1).



Adjust front seat completely to the front.

Release rear screws (1).



Unlock and disconnect the connector (1).

Attention!

Cover entrances with protective covers (risk of damage!)

Carefully lift out front seat.



Warning!

When carrying out further work on the front seat, it is absolutely imperative to observe the safety regulations on handling airbag modules and pyrotechnical seat belt tensioners

Improper handling can lead to triggering of the pyrotechnical seat belt tensioner or side airbag, resulting in injuries.

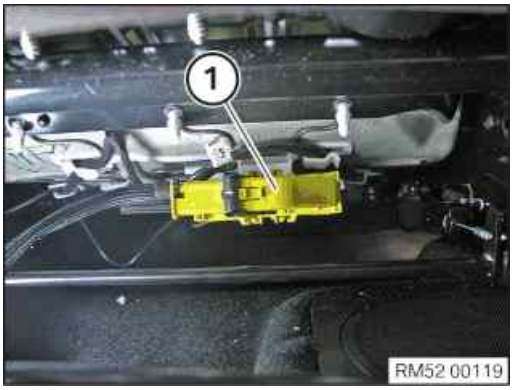
Installation:

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Installation note:

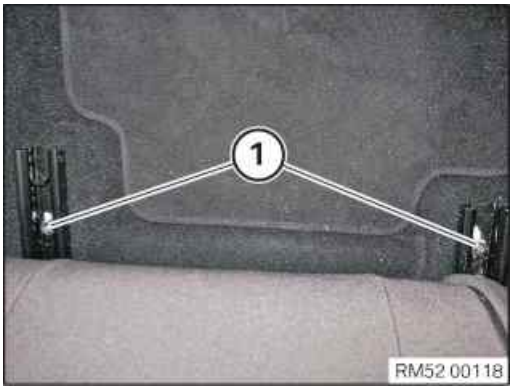
- Carpet must not get between seat rails and floor panel in area of attachment points (groaning noises)
- Insert all screws loose to avoid twisting
- Renew all screws and tighten to the specified torque

  Tightening torque 52 10 1AZ.



Carefully lift and position front seat in vehicle.

Connect the connector (1).



Tighten rear screws (1).*Note:*
Renew screws.

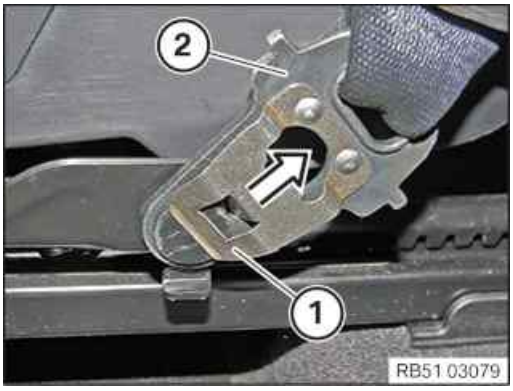
Tightening torque 52 10 1AZ.



Tighten front screws (1).*Note:*
Renew screws.

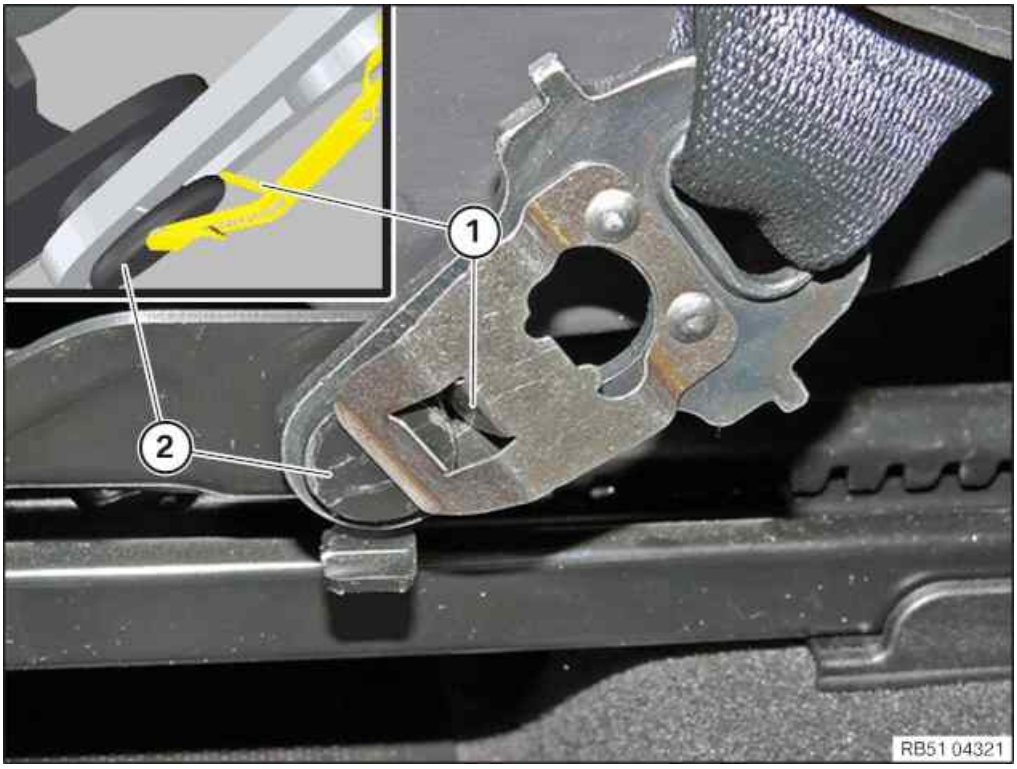
Tightening torque 52 10 1AZ.

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Feed in end fitting (2) and engage.**Attention!**

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



Retaining tab (1) must engage correctly behind the bolt (2).

Attention!

Malfunction if latch mechanism is not correct.

Ask a second person to check the latch mechanism (four-eyes principle).

Both persons must document that the work has been carried out correctly in the vehicle records.

Remember the following video animation.

Video animation "Fasten seat belt at the seat"

Your browser doesn't support HTML5 video.



Slide cover (1) on seat belt (2) downwards.**Attention!**

Perform the concluding check:

Pull end fitting forward, upward and backward.

If the end fitting is not correctly engaged, it cannot be turned on the bolt!

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Required follow-up work:

- Connect battery earth lead

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52 13 002 Removing and installing front seat, passenger's side

Attention!

The side airbag is integrated in the front seat.

Improper handling may trigger the side airbag and as a result cause injuries.

Observe safety regulations for handling components of airbag system.

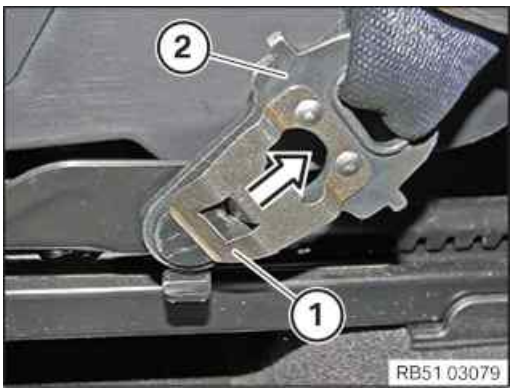
Removal:

Necessary preliminary tasks:

- Disconnect battery earth lead



Slide cover (1) on seat belt (2) upwards.



Turn end fitting (2) towards rear.

Pull lock washer (1) outwards carefully.

At the same time, feed out end fitting (2) towards front.

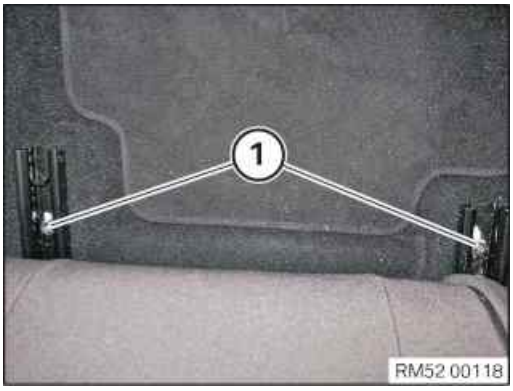
Remove end fitting (2) outwards.

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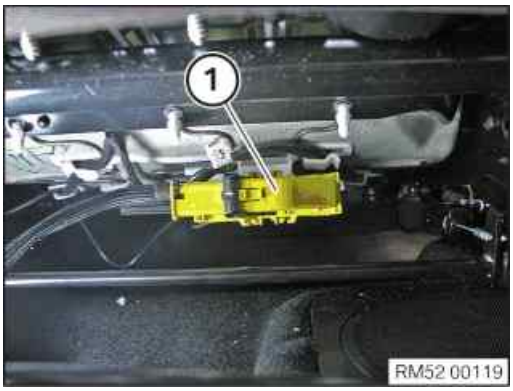
Adjust front seat completely to the rear.

Release front screws (1).



Adjust front seat completely to the front.

Release rear screws (1).



Unlock and disconnect the connector (1).

Attention!

Cover entrances with protective covers (risk of damage!)

Carefully lift out front seat.



Warning!

When carrying out further work on the front seat, it is absolutely imperative to observe the safety regulations on handling airbag modules and pyrotechnical seat belt tensioners

Improper handling can lead to triggering of the pyrotechnical seat belt tensioner or side airbag, resulting in injuries.

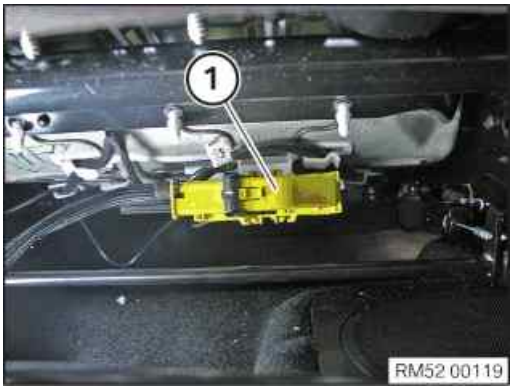
Installation:

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Installation note:

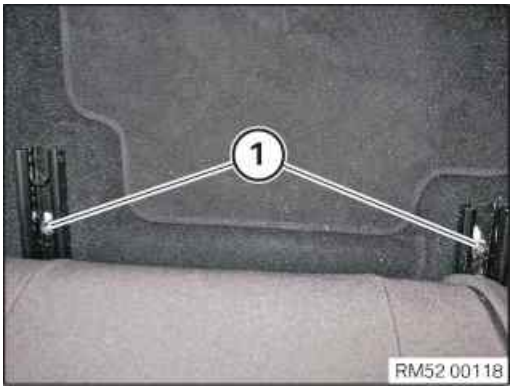
- Carpet must not get between seat rails and floor panel in area of attachment points (groaning noises)
- Insert all screws loose to avoid twisting
- Renew all screws and tighten to the specified torque

  Tightening torque 52 10 1AZ.



Carefully lift and position front seat in vehicle.

Connect the connector (1).



Tighten rear screws (1).*Note:*
Renew screws.

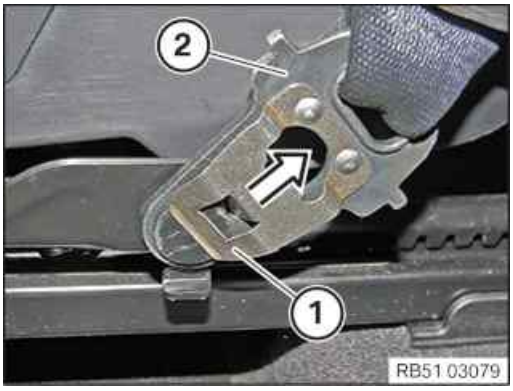
Tightening torque 52 10 1AZ.



Tighten front screws (1).*Note:*
Renew screws.

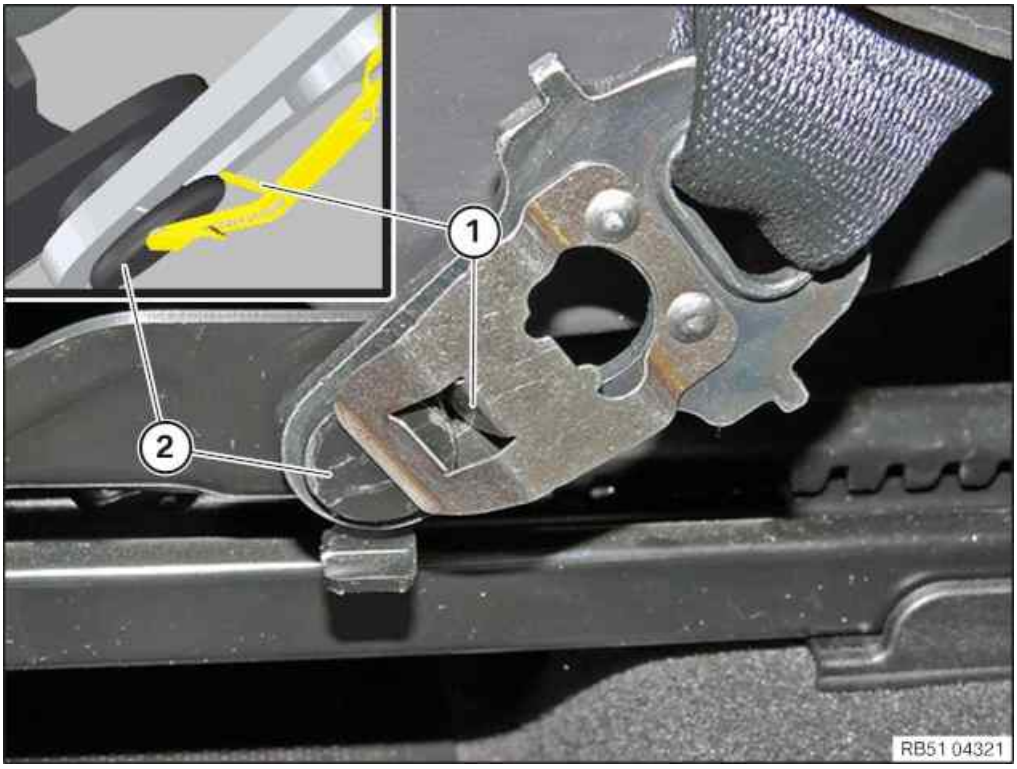
Tightening torque 52 10 1AZ.

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Feed in end fitting (2) and engage.**Attention!**

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



Retaining tab (1) must engage correctly behind the bolt (2).

Attention!

Malfunction if latch mechanism is not correct.

Ask a second person to check the latch mechanism (four-eyes principle).

Both persons must document that the work has been carried out correctly in the vehicle records.

Remember the following video animation.

Video animation "Fasten seat belt at the seat"

Your browser doesn't support HTML5 video.



Slide cover (1) on seat belt (2) downwards.**Attention!**

Perform the concluding check:

Pull end fitting forward, upward and backward.

If the end fitting is not correctly engaged, it cannot be turned on the bolt!

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Required follow-up work:

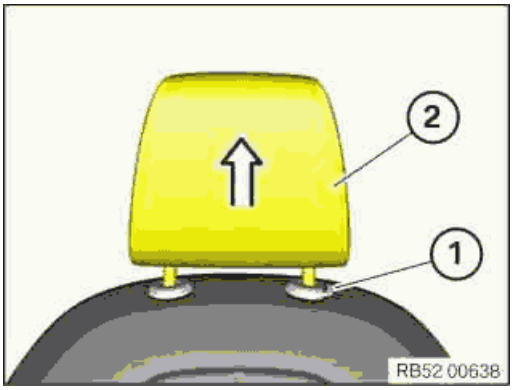
- Connect battery earth lead

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52 13 390 Removing and installing or replacing front left or right head restraint

[redacted]

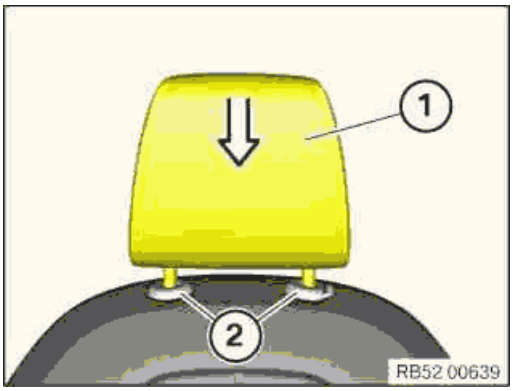
Removal:



Press height adjustment (1) and pull out head restraint (2) upwards.

[redacted]

Installation:



Insert head restraint (1) from above into guide sleeves (2) and latch into place.

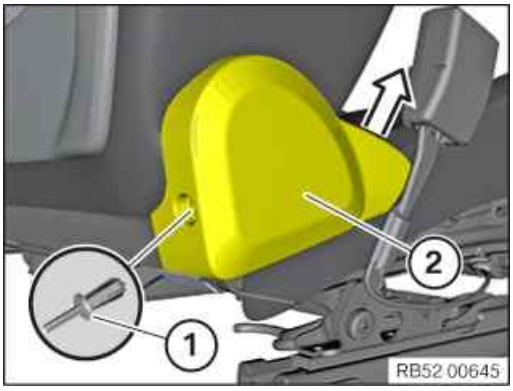
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52 13 041 Removing and installing or replacing inner cover on left or right front seat

Necessary preliminary work:

- Remove front seat

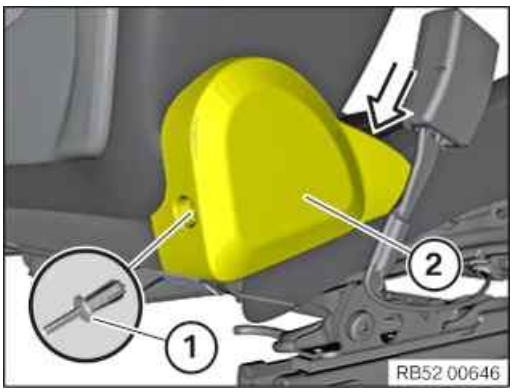
Removal:



Release expansion rivet (1).

Remove cover (2) in direction of arrow.

Installation:



Install cover (2) in the direction of the arrow.

Attach expanding rivet (1).

Required follow-up work:

- Install front seat

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52 13 198 Removing and installing or replacing rear panel on left or right front seat backrest

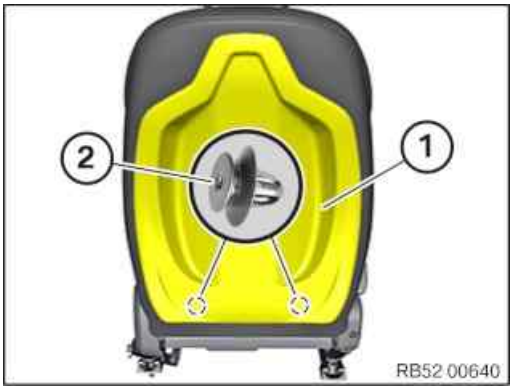
Removal:



Version with foldaway table:

Press together the lock and completely move the oddments table (1) upwards.

Detach the oddments table (1) from the rail.



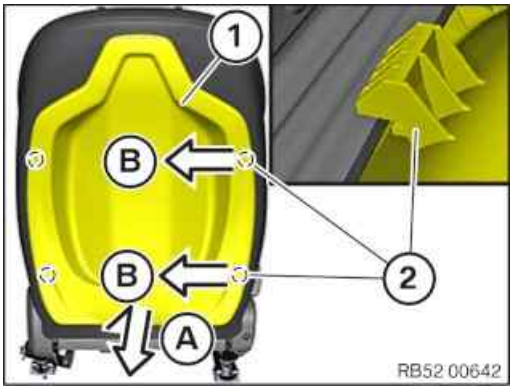
Loosen the rear panel (1) from the clips (2) towards the rear.



Reach behind rear panel (1) and push latch mechanisms (2) upwards.

Hold rear panel (1) to rear under tension.

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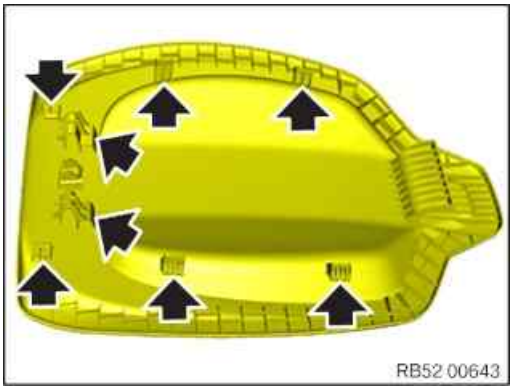


Pull rear panel (1) in lower area slightly to rear/down, direction of arrow (A).

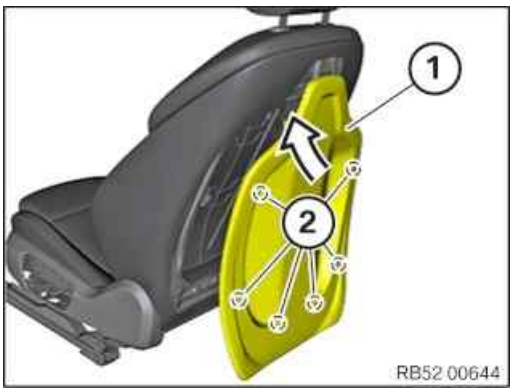
Push rear panel (1) in direction of arrow (B) and release latch mechanisms (2).

Thread rear panel (1) out of seat.

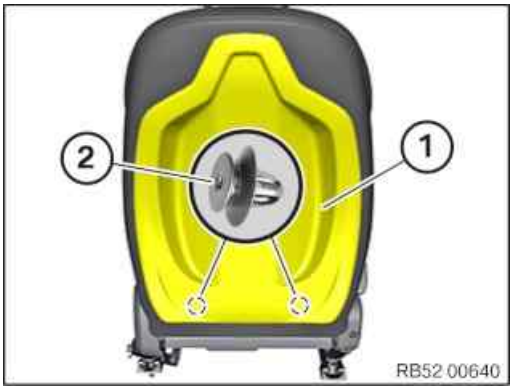
Installation:



Note:
Latch mechanisms and clips must not be missing or damaged.



Insert the rear panel into the seat and clip into the latch mechanisms (2) on the seat.



Secure the rear panel (1) on the seat using the clips (2).

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Version with foldaway table:

Press together the lock and insert the oddments table (1) into the rail at the very top.

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52 13 ... Removing and installing/exchanging guide for left or right front seat head restraint

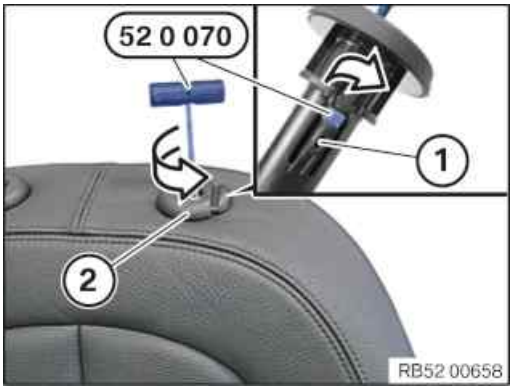
Special tools required:

- 52 0 070

Necessary preliminary tasks:

- Remove head restraint

Removal:

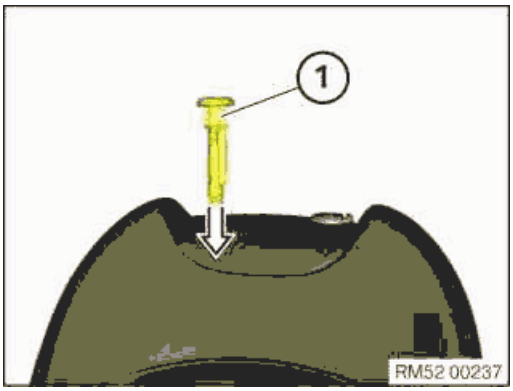


Insert special tool 52 0 070 into guide hole of sleeve (2) up to upper area of retaining lug.

Feed in unlocking tab of special tool behind the latch mechanism (1).

Turn tool to release sleeve (2) and pull out by lifting upwards.

Installation:



Insert guide (1) from above and engage.

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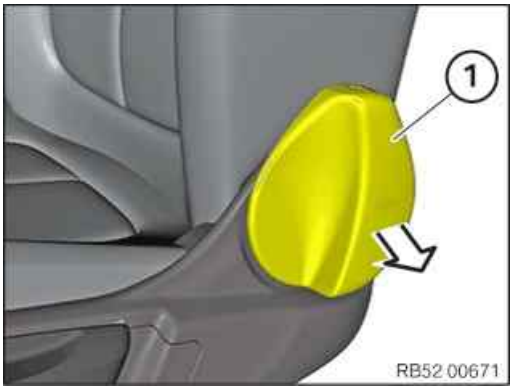
Required reworking:

- Install head restraint

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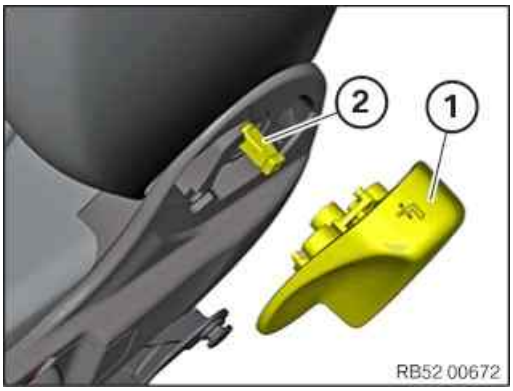
52 13 031 Removing and installing/replacing backrest adjustment lever on left or right front seat

Removal:



Unclip lever (1) outwards.

Installation:



Connect lever (1) to shaft (2) and latch into place.

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52 15 530 Removing and installing/replacing backrest frame for left or right front seat

Attention!

The side airbag is integrated in the front seat.

Improper handling may trigger the side airbag and as a result cause injuries.

Observe safety regulations for handling components of airbag system.

Necessary preliminary tasks:

- Remove rear panel
- Remove seat
- Remove guides for head restraint
- Remove inner and outer cover



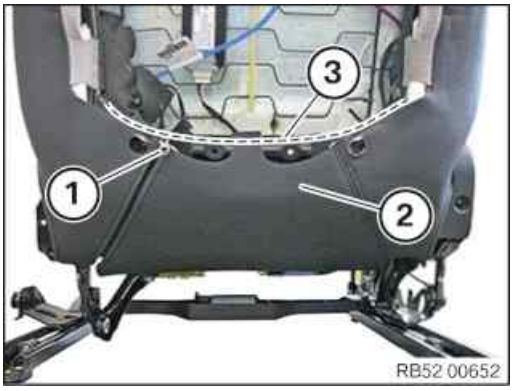
Use of the universal seat mount is recommended for carrying out expert repairs.

Removal:



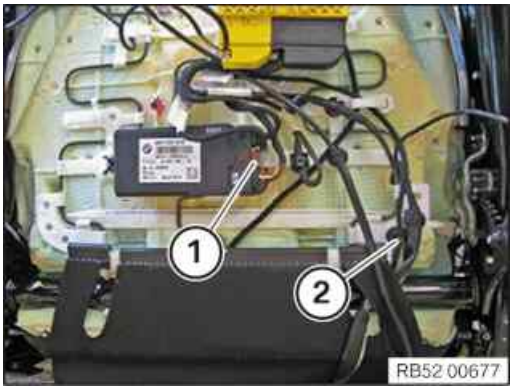
Detach tensioning straps (1) at left and right from seat mechanism.

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Open zip fastener (1).

Detach seat cover (2) in area (3) from backrest frame.

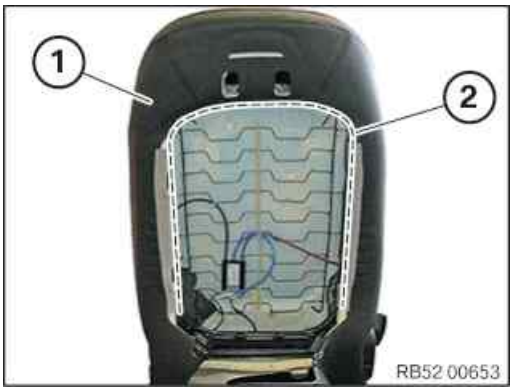


Version with seat heating:

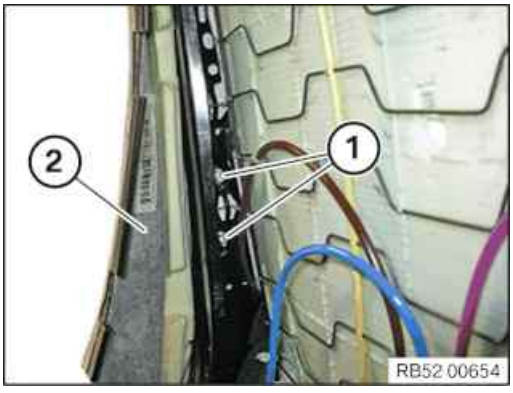
Unfasten plug connection (1) and disconnect.

Unfasten cable strap (2).

Feed back cable.



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



Unscrew nuts (1).

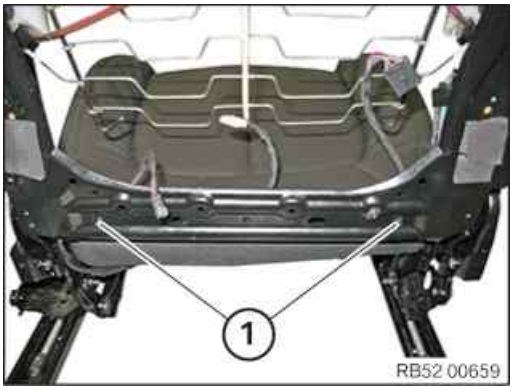
Feed side airbag downwards and out of backrest cover (2).

Remove backrest cover (2) with upholstery upwards from backrest frame.

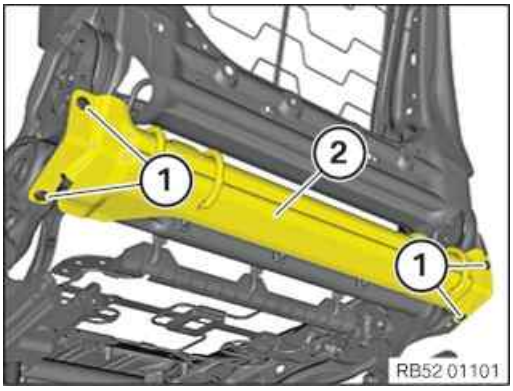
Depending on version:

- Remove backrest width adjustment
- Remove backrest width adjustment with lumbar support
- Remove lumbar support

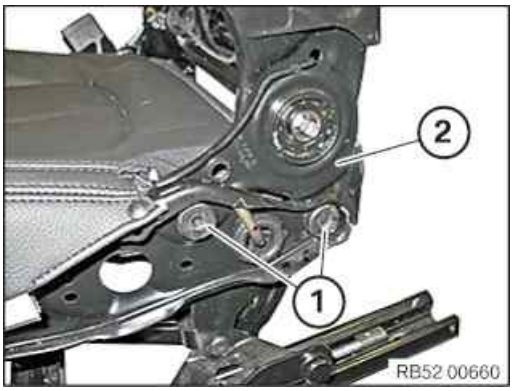
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Release wiring harness at clips (1) from backrest frames.
Carefully feed wiring harness out of backrest frame.

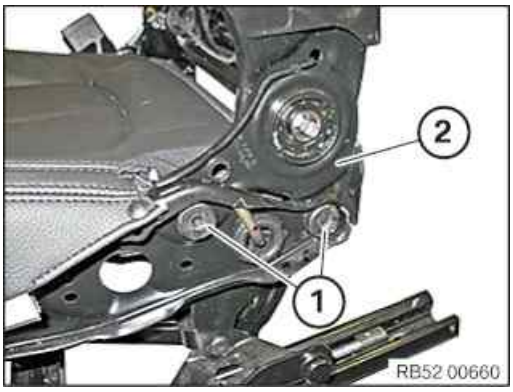


Equipment specification with Isofix:
Drill out rivet (1).
Take off holder (2).
Remove remnants of rivets.



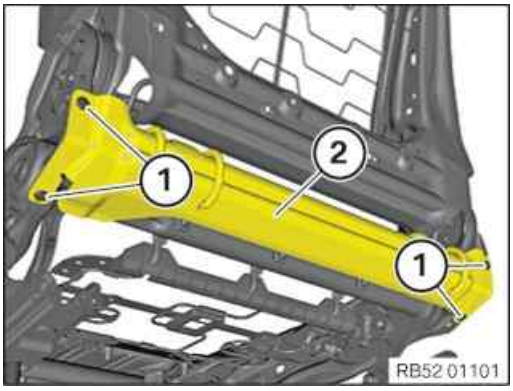
Release screws (1) on left and right.
Remove backrest frame (2).

Installation:



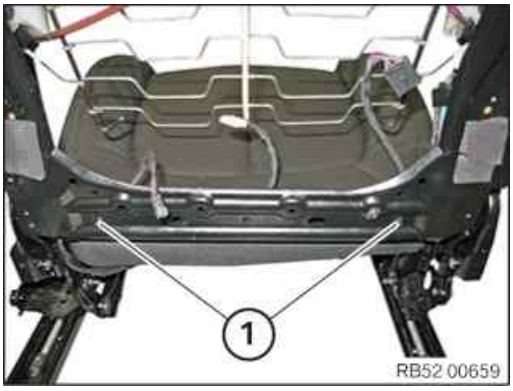
Fasten backrest frame (2) in place using screws (1).
Tightening torque 52 10 2AZ.

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Equipment specification with Isofix:

Attach holder (2) using the rivets (1).

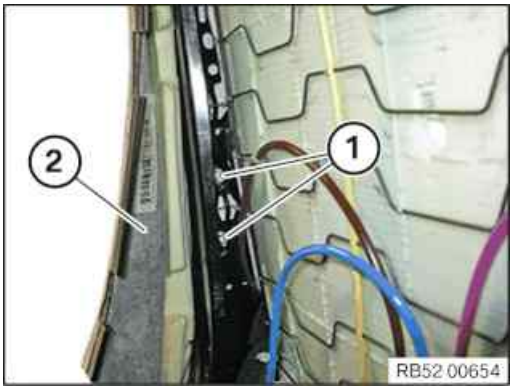


Feed wiring harness into backrest frame.

Attach wiring harness with clips (1) on backrest frame.

Depending on version:

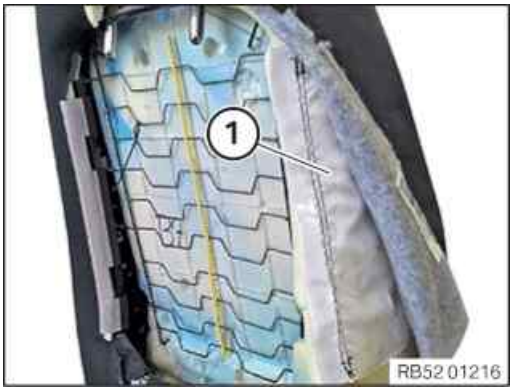
- Install backrest width adjustment
- Install backrest width adjustment with lumbar support
- Install lumbar support



Position backrest cover (2) with upholstery from above onto backrest frame.

Feed in side airbag from below into backrest cover (2).

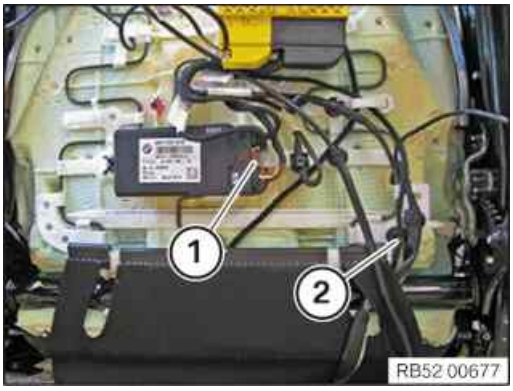
Tighten down nuts (1).



Note:
As per the version, the backrest cover can have one airbag pouch (1) on both sides.

Ensure that the unused airbag pouch (1) is kept tightly and crease-free between the cushion and the backrest cover.

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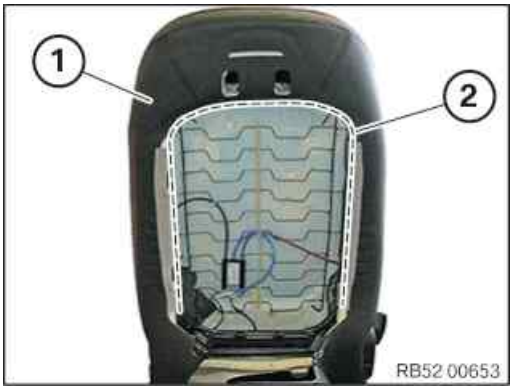


Version with seat heating:

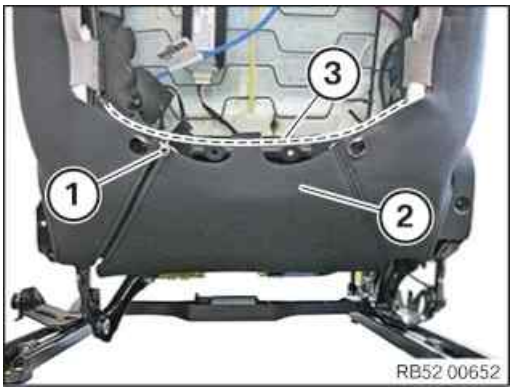
Feed in cable.

Secure cable clip (2).

Connect the connector (1).



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



Attach seat cover (2) in area (3) to backrest frame.

Close zip fastener (1).



Attach tensioning straps (1) at left and right to seat mechanism.

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Required follow-up work:

- Mount inner and outer cover
- Mount guides for head restraint
- Install the seat
- Mount rear panel

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52 13 040 Removing and installing/replacing outer cover on left or right front seat (manual)

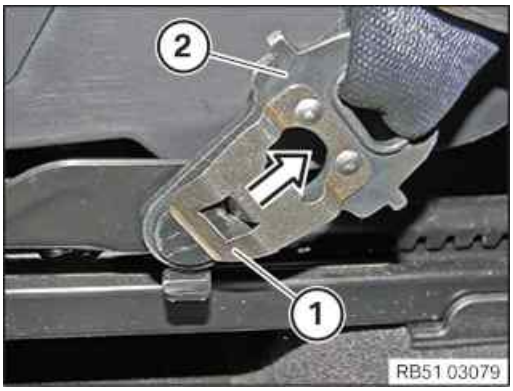
Necessary preliminary tasks:

- Remove lever for backrest adjustment
- Remove lever for seat height adjustment

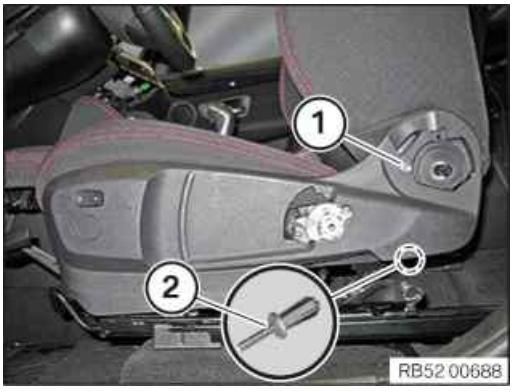
Removal:



Slide cover (1) on seat belt (2) upwards.

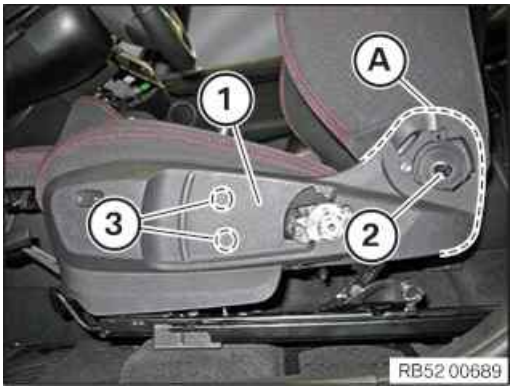


Turn end fitting (2) towards rear.
Carefully pull the retaining clip (1) towards the outside.
At the same time, feed out end fitting (2) towards front.
Remove end fitting (2) outwards.



Release screw (1).
Release expanding rivet (2).

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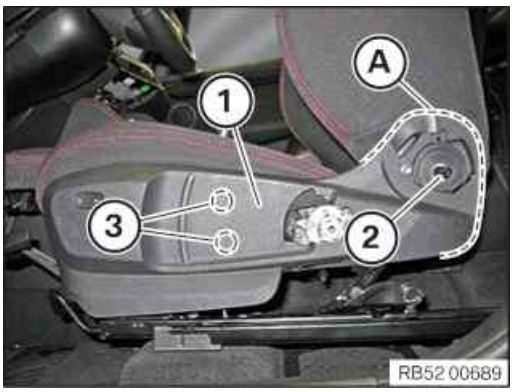


Lift cover (1) in area (A) over shaft (2).
Detach cover (1) forward and out of guides (3).
If necessary, unlock associated plug connections and disconnect.

Installation:

Replacement (depending on version):

- Remount switch for backrest width adjustment
- Remount switch for lumbar support

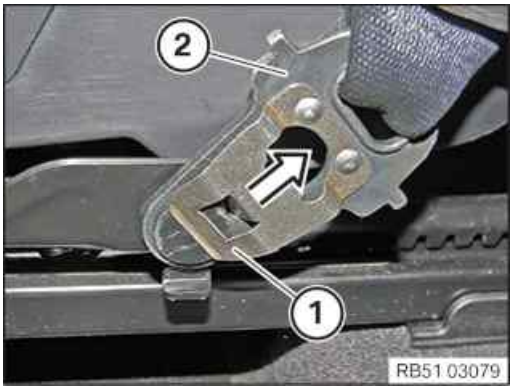


If required, connect relevant connector.
Attach cover (1) from front into guides (3).
Lift cover (1) in area (A) over shaft (2).



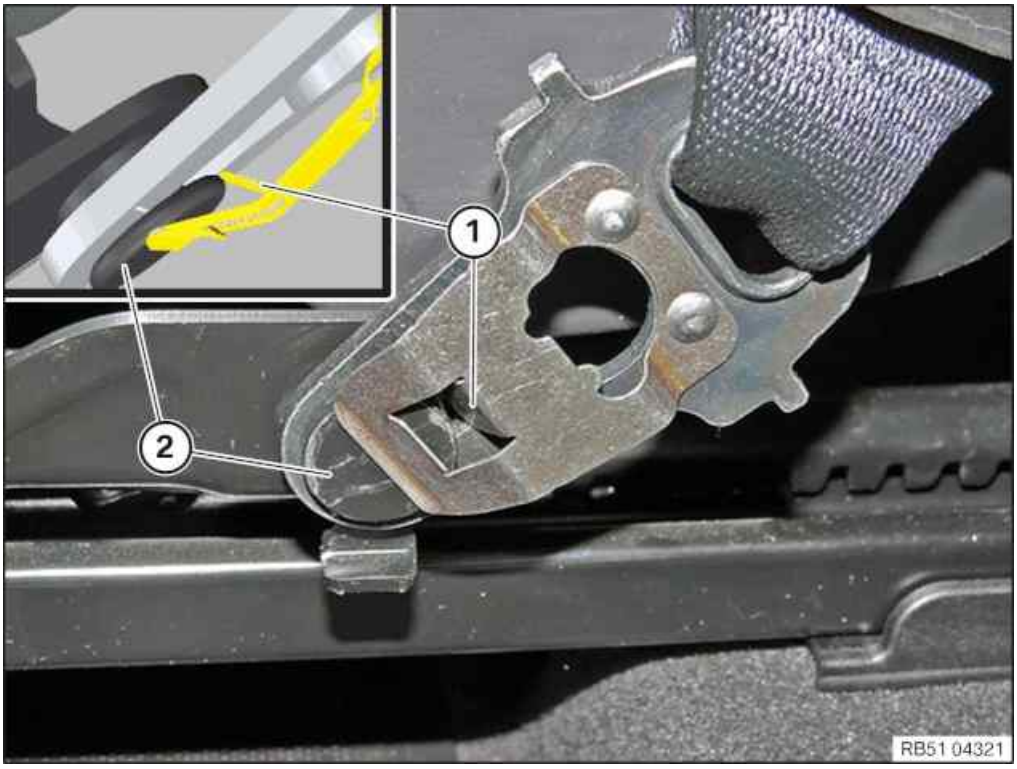
Tighten screw (1).
Attach expanding rivet (2).

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Insert end fitting (2).**Attention!**

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



Retaining tab (1) must engage correctly behind the bolt (2).

Attention!

Malfunction if latch mechanism is not correct.

Ask a second person to check the latch mechanism (four-eyes principle).

Both persons must document that the work has been carried out correctly in the vehicle records.

Remember the following video animation.

Video animation "Fasten seat belt at the seat"

Your browser doesn't support HTML5 video.



Slide cover (1) on seat belt (2) downwards.**Attention!**

Perform the concluding check:

Pull end fitting forward, upward and backward.

If the end fitting is not correctly engaged, it cannot be turned on the bolt!

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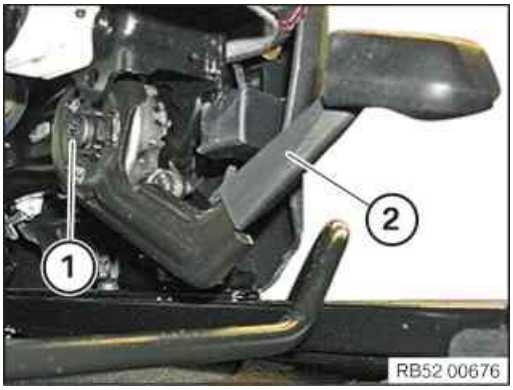
Required follow-up work:

- Install lever for backrest adjustment
- Install lever for seat height adjustment

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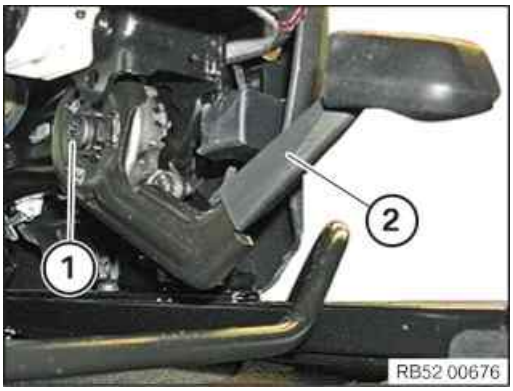
52 13 ... Removing and installing/replacing seat angle adjustment lever on left or right front seat

Removal:



Loosen screw (1) and remove lever (2).

Installation:



Position lever (2) and tighten screw (1).

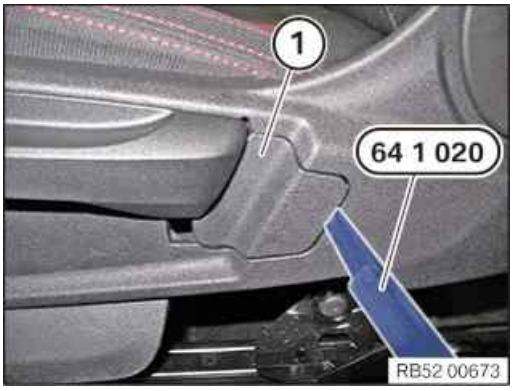
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52 13 ... Removing and installing/replacing seat height adjustment lever on left or right front seat

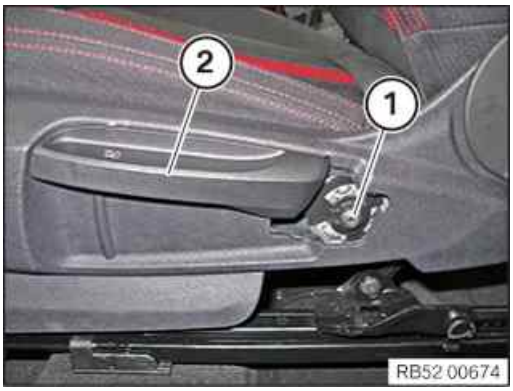
Special tools required:

- 64 1 020

Removal:



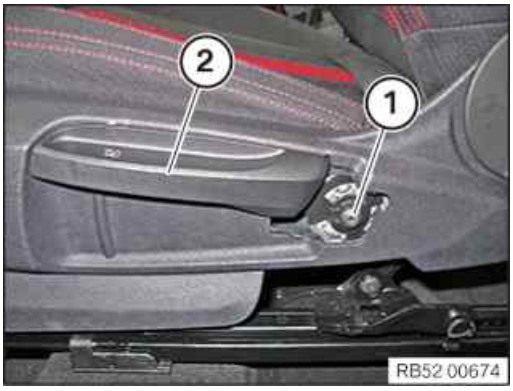
Unclip cover (1) with special tool 64 1 020 .



Loosen screw (1) and remove lever (2).

INSTALLATION:

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Position lever (2) and tighten screw (1).



Clip in cover (1).

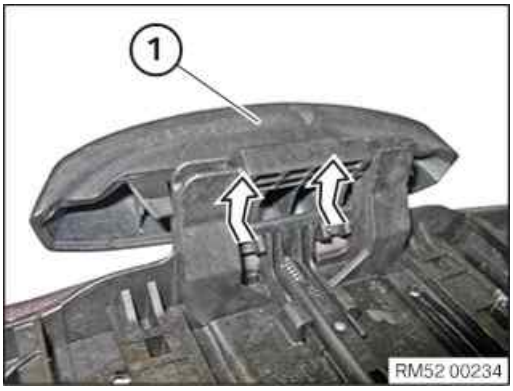
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52 15 403 Removing or installing/replacing thigh support cover on left or right front seat (Sport)

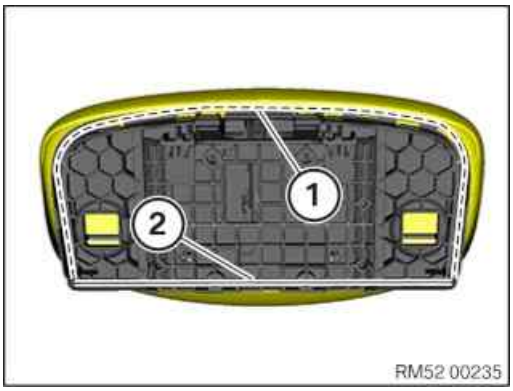
Necessary preliminary tasks:

- Remove thigh support

Removal:



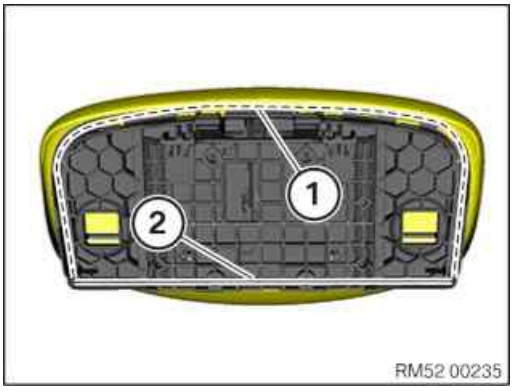
Detach handle (1) in direction of arrow and remove.



Lever out cover welt in marked area (1).
Detach trim wire in marked area (2) from thigh support.
Remove seat cover.

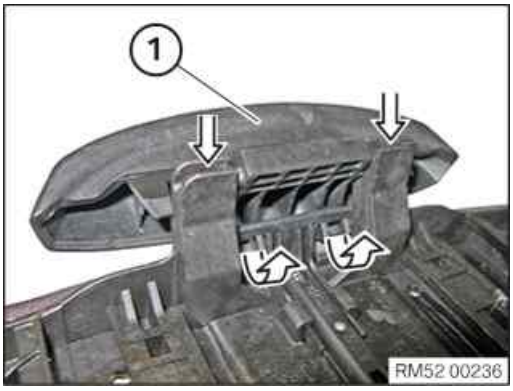
Installation:

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Attach cover welt in marked area (1).

Attach trim wire to thigh support in marked area (2).



Attach handle (1) in direction of arrow.

Required follow-up work:

- Install thigh support

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52 15 400 Replace seat cover for front seat (Sport) at left or right

Special tools required:

- 52 0 050

Warning!

Danger of injury!

The seat frame has very sharp edges that can cause injuries from cuts.

Exercise extreme caution and wear work gloves as required when carrying out any repair work in the area of the seat frame.

Important!

Risk of damage on sharp-edged seat mechanism.

Guide all cables carefully through seat and backrest mechanism.

Make sure cable is routed without kinks and tension.

Make sure plug connections are correctly locked.

Make sure connectors are correctly seated in latch mechanisms.

Important!

- Microencapsulated screws must be coated with Loctite if they are to be reused
- Screw connection must be completed within 20 min. (start of hardening)
- Microencapsulated screws must not be retightened
- Thread of nut must be cleaned beforehand in event of repeated use

Necessary preliminary tasks:

- Remove front seat
- Remove thigh support
- Remove inner cover
- Remove outer cover

Removal:

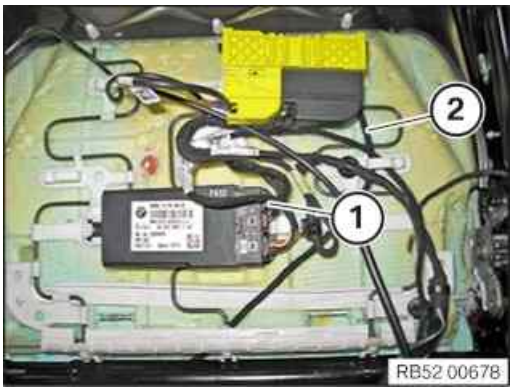
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Use of the universal seat mount is recommended for carrying out professional repairs.



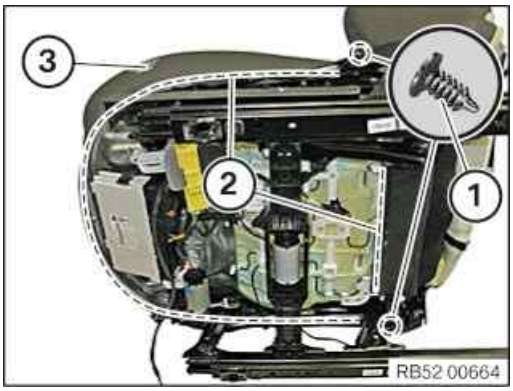
Detach tensioning straps (1) at left and right from seat mechanism.



<u>On versions with seat heating:</u>

Unfasten plug connection (1) and disconnect.

Feed back attendant cable (2).



Release clamps (1).

Unhook welt (2).

Remove seat cover (3) with support.

If necessary, feed out cable.

Important!

Feed the wiring harness carefully through the seat and backrest mechanism as the edges of the frame can be sharp.

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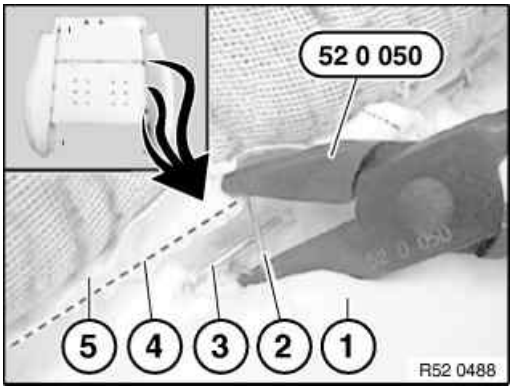
Release all clamps in marked area.

Remove seat cover from upholstery.

Important!

Remove all remnants of clamps from seat cover and upholstery.

Installation:

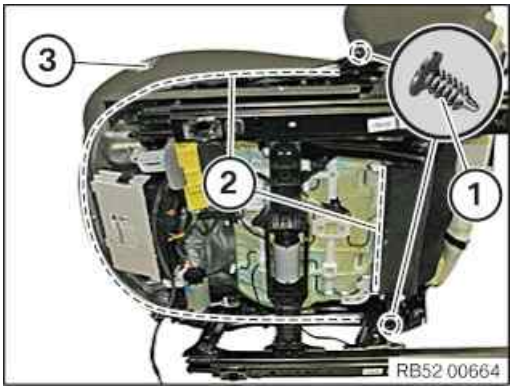


Position seat cover.

Parts: Replace upholstery clamps.

Bend new clamps (2) with special tool 52 0 050 .

1. Upholstery
2. Clamp
3. Trim wire in upholstery
4. Trim wire in seat cover
5. Seat cover



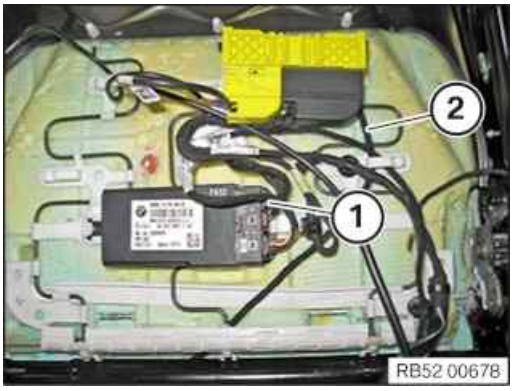
Mount seat cover (3) with upholstery onto seat mechanism.

Important!

Feed the wiring harness carefully through the seat and backrest mechanism as the edges of the frame can be sharp.

Attach welt (2).

Fasten clips (1).



On versions with seat heating:

Feed in cable (2).

Connect the plug (1).

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Attach tensioning straps (1) at left and right to seat mechanism.

Required follow-up work:

- Install outer cover
- Install inner cover
- Install thigh support
- Install front seat

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52 15 417 Replace upholstery for thigh support (Sport) at left or right



Operation is identical to:

- Remove and install upholstery on thigh support on front seat

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52 13 407 Replacing backrest cover for driver's seat

Special tools required:

- 52 0 050

Attention!

The side airbag is integrated in the front seat.

Improper handling may trigger the side airbag and as a result cause injuries.

Observe safety regulations for handling components of airbag system.

Necessary preliminary tasks:

- Remove rear panel
- Remove seat
- Remove guides for head restraint
- Remove inner and outer cover



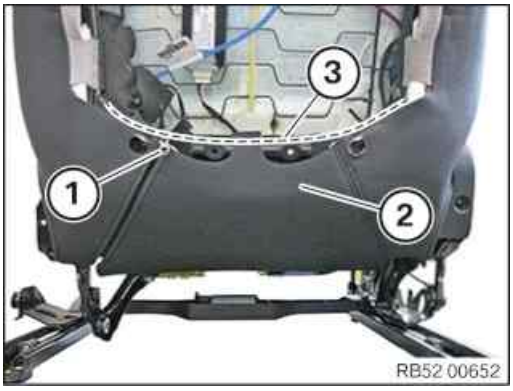
Use of the universal seat mount is recommended for carrying out expert repairs.

Removal:

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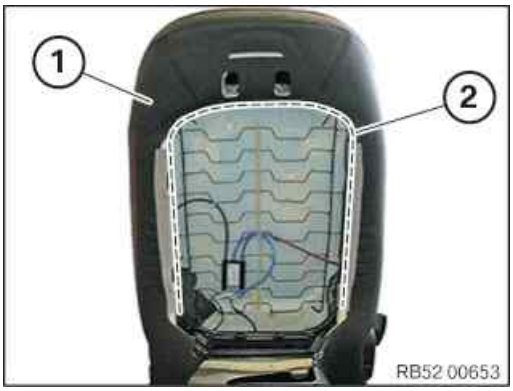


Detach tensioning straps (1) at left and right from seat mechanism.

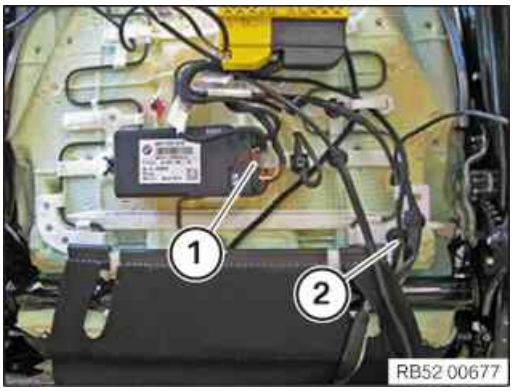


Open zip fastener (1).

Detach seat cover (2) in area (3) from backrest frame.



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



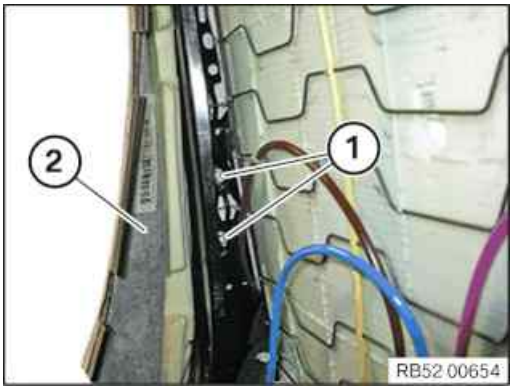
<u>On versions with seat heating:</u>

Unfasten plug connection (1) and disconnect.

Unfasten cable strap (2).

Feed back cable.

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Unscrew nuts (1).

Feed side airbag downwards and out of backrest cover (2).

Remove backrest cover (2) with upholstery upwards from backrest frame.



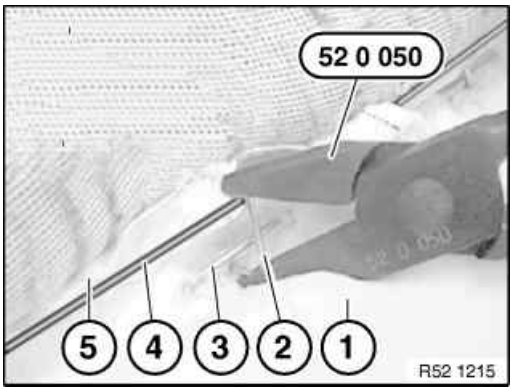
Release all clamps in marked area.

Remove seat cover from upholstery.

Attention!

Remove all remnants of clamps from seat cover and upholstery.

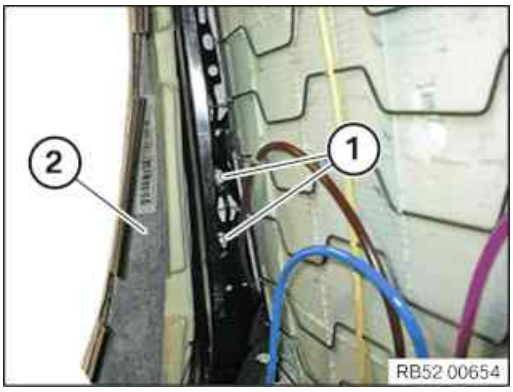
Installation:



Parts: Replace clamps (2).

Insert new clamp (2) with special tool 52 0 050 and bend closed.

1. Upholstery
2. Clamp
3. Trim wire in upholstery
4. Trim wire in seat cover
5. Backrest cover

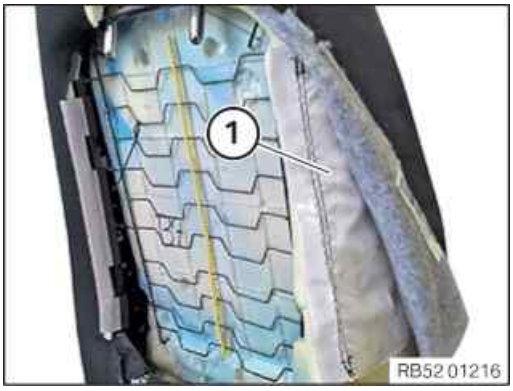


Position backrest cover (2) with upholstery from above onto backrest frame.

Feed in side airbag from below into backrest cover (2).

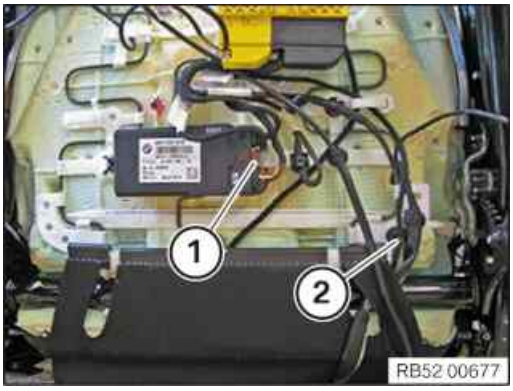
Tighten down nuts (1).

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Note:
As per the version, the backrest cover can have one airbag pouch (1) on both sides.

Ensure that the unused airbag pouch (1) is kept tightly and crease-free between the cushion and the backrest cover.

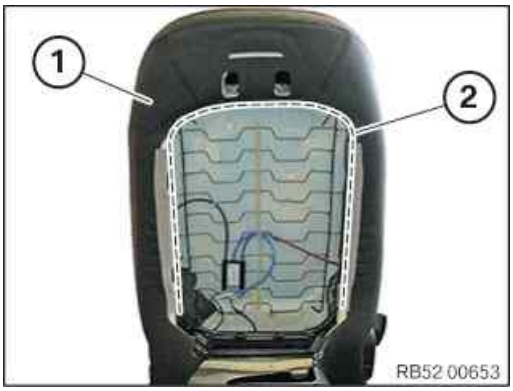


<u>On versions with seat heating:</u>

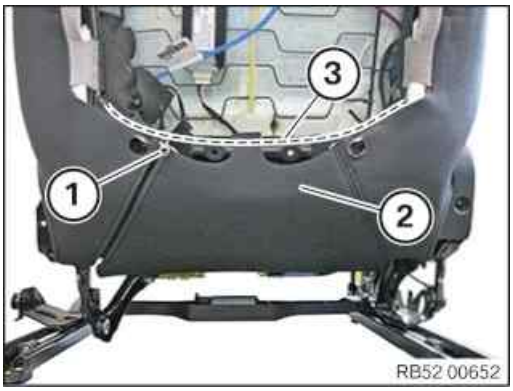
Feed in cable.

Secure cable clip (2).

Connect the connector (1).



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



Attach seat cover (2) in area (3) to backrest frame.

Close zip fastener (1).

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Attach tensioning straps (1) at left and right to seat mechanism.

Required follow-up work:

- Mount inner and outer cover
- Mount guides for head restraint
- Install the seat
- Mount rear panel

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52 13 408 Replacing backrest cover for front passenger seat

Special tools required:

- 52 0 050

Attention!

The side airbag is integrated in the front seat.

Improper handling may trigger the side airbag and as a result cause injuries.

Observe safety regulations for handling components of airbag system.

Necessary preliminary tasks:

- Remove rear panel
- Remove seat
- Remove guides for head restraint
- Remove inner and outer cover



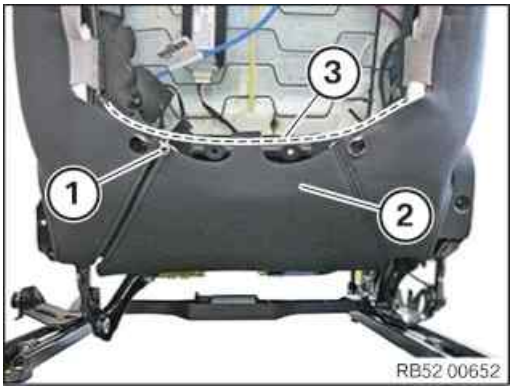
Use of the universal seat mount is recommended for carrying out expert repairs.

Removal:

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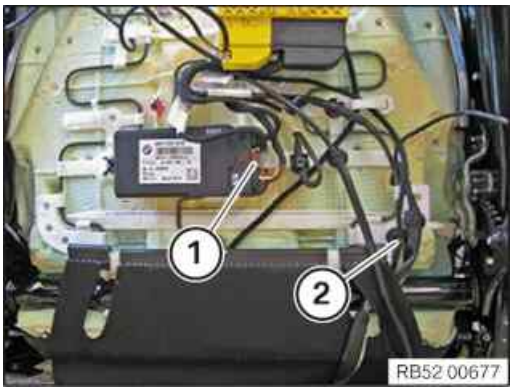


Detach tensioning straps (1) at left and right from seat mechanism.



Open zip fastener (1).

Detach seat cover (2) in area (3) from backrest frame.

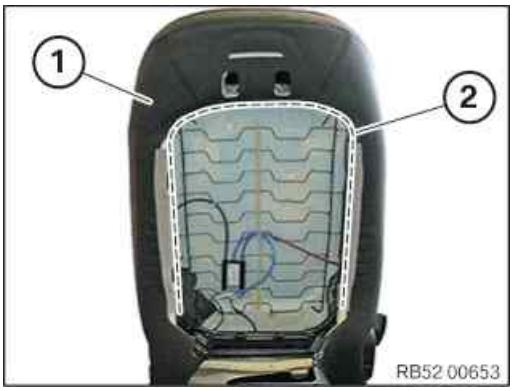


<u>On versions with seat heating:</u>

Unfasten plug connection (1) and disconnect.

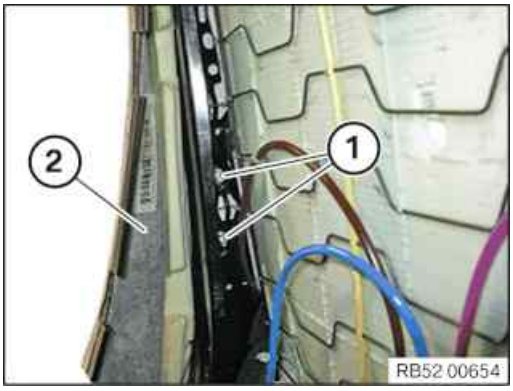
Unfasten cable strap (2).

Feed back cable.



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

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Unscrew nuts (1).

Feed side airbag downwards and out of backrest cover (2).

Remove backrest cover (2) with upholstery upwards from backrest frame.



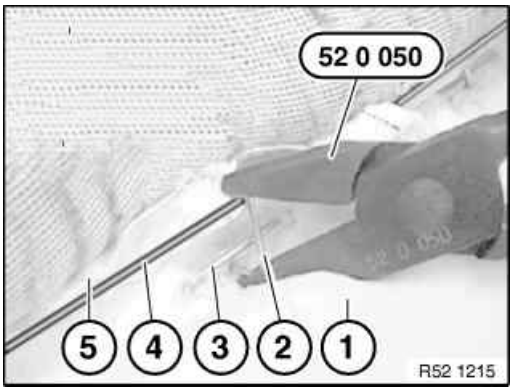
Release all clamps in marked area.

Remove seat cover from upholstery.

Attention!

Remove all remnants of clamps from seat cover and upholstery.

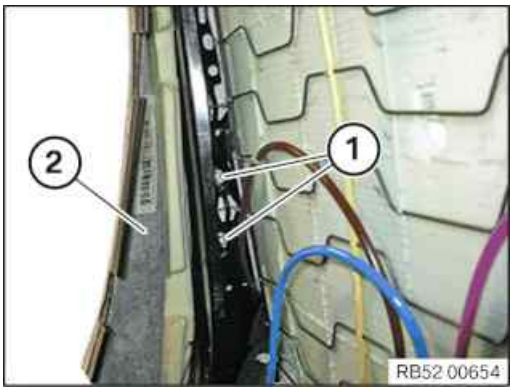
Installation:



Parts: Replace clamps (2).

Insert new clamp (2) with special tool 52 0 050 and bend closed.

1. Upholstery
2. Clamp
3. Trim wire in upholstery
4. Trim wire in seat cover
5. Backrest cover

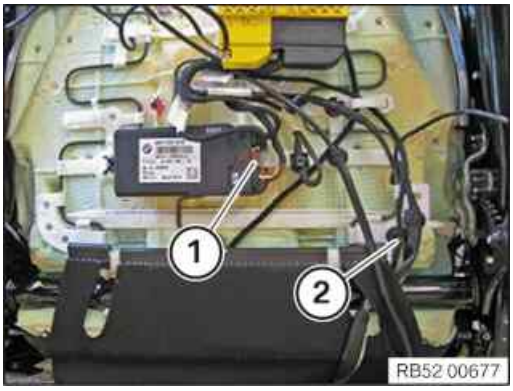


Position backrest cover (2) with upholstery from above onto backrest frame.

Feed in side airbag from below into backrest cover (2).

Tighten down nuts (1).

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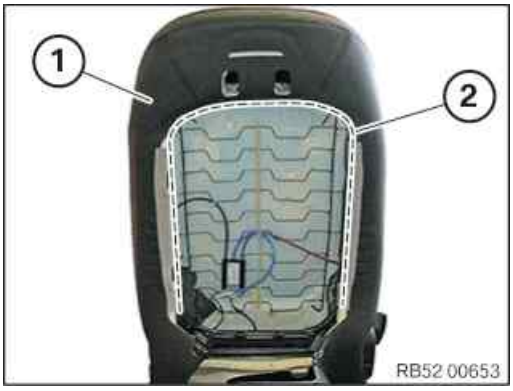


<u>On versions with seat heating:</u>

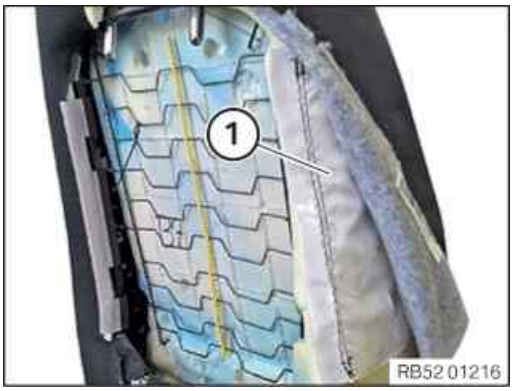
Feed in cable.

Secure cable clip (2).

Connect the connector (1).

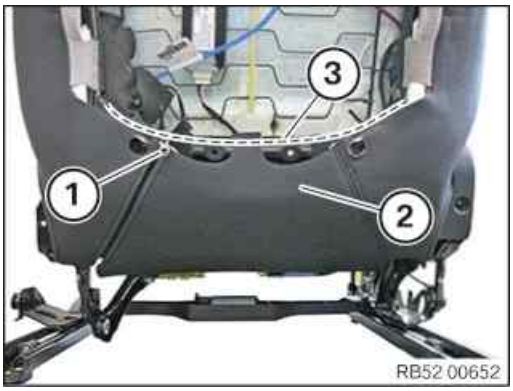


Attach seat cover (1) in area (2) to backrest frame.



Note:
As per the version, the backrest cover can have one airbag pouch (1) on both sides.

Ensure that the unused airbag pouch (1) is kept tightly and crease-free between the cushion and the backrest cover.



Attach seat cover (2) in area (3) to backrest frame.

Close zip fastener (1).

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Attach tensioning straps (1) at left and right to seat mechanism.

Required follow-up work:

- Mount inner and outer cover
- Mount guides for head restraint
- Install the seat
- Mount rear panel

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52 15 062 Replacing backrest width adjustment with valve on left or right

Necessary preliminary tasks:

- Remove the rear panel from the front seat
- Remove front seat
- Remove guide sleeves for head restraint
- Detach outer and inner cover

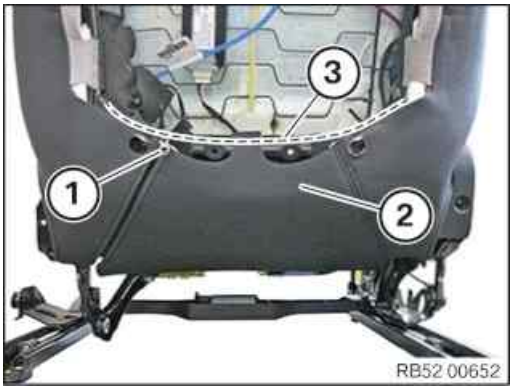
Removal:



Use of the universal seat mount is recommended for carrying out professional repairs.



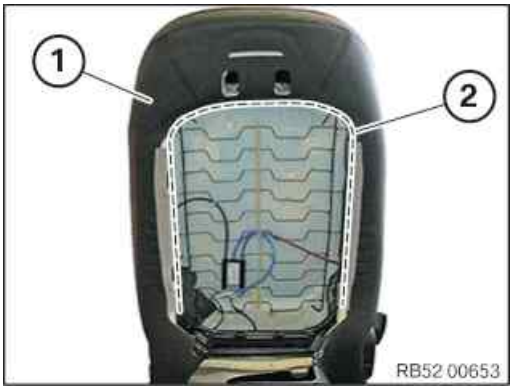
Detach tensioning straps (1) at left and right from seat mechanism.



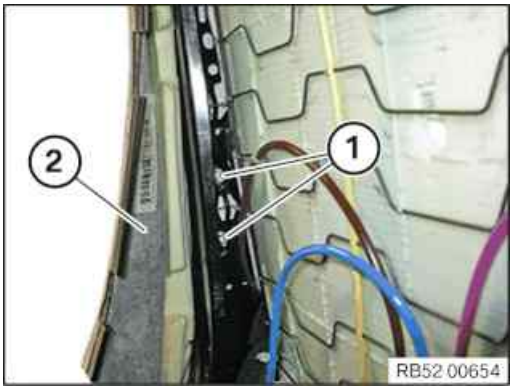
Open zip fastener (1).

Detach seat cover (2) in area (3) from backrest frame.

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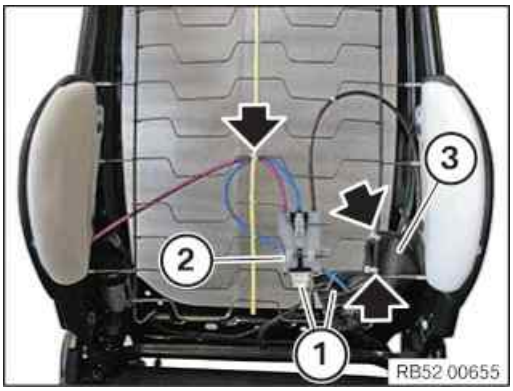
Detach seat cover (1) in area (2) from backrest frame.



Unscrew nuts (1).

Feed side airbag downwards and out of backrest cover (2).

Remove backrest cover (2) with upholstery upwards from backrest frame.

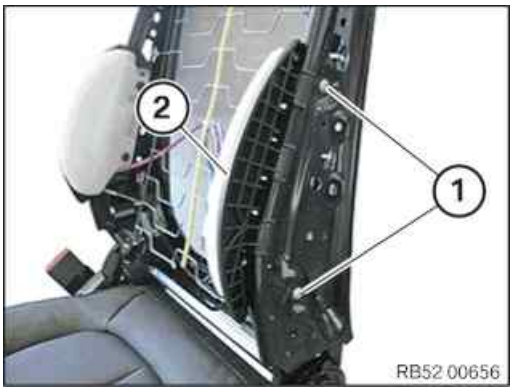


Unfasten cable strap.

Unlock plug connections (1) and disconnect.

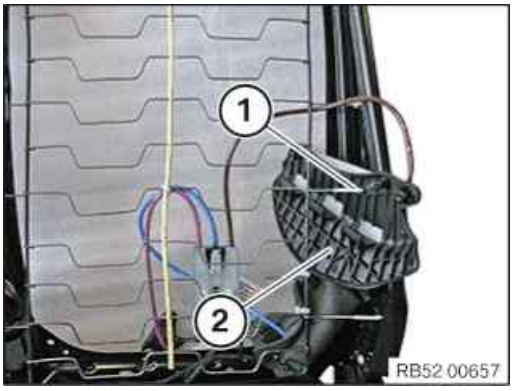
Detach valve body (2) from spring wire.

Feed out pump (3).



Remove screws (1) from left and right air cushions (2).

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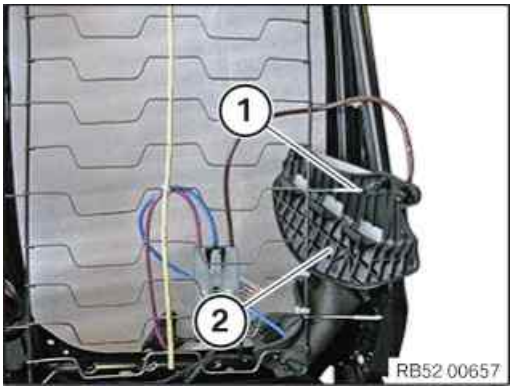


Detach spring wire (1) from backrest frame.

Feed out air cushion (2) to rear.

Note:
Carry out work on the right side in the same way as for the left side illustrated here.

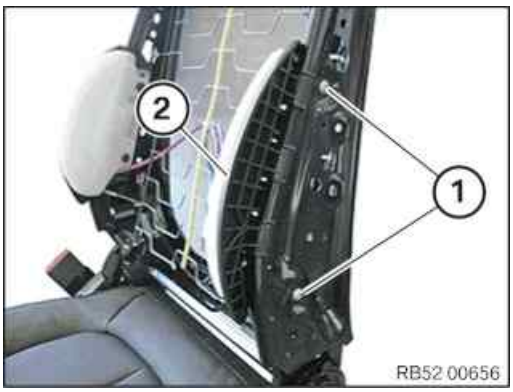
Installation:



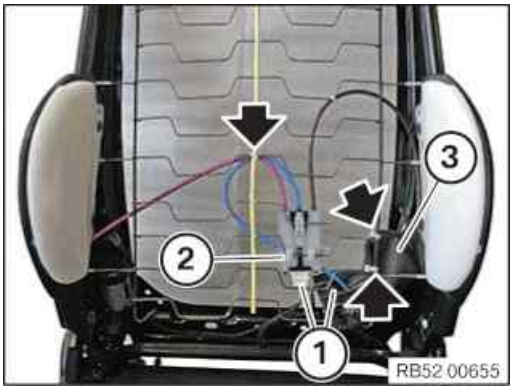
Feed in air cushion (2) from rear.

Attach spring wire (1) to backrest frame.

Note:
Carry out work on the right side in the same way as for the left side illustrated here.



Tighten screws (1) on left and right air cushions (2).



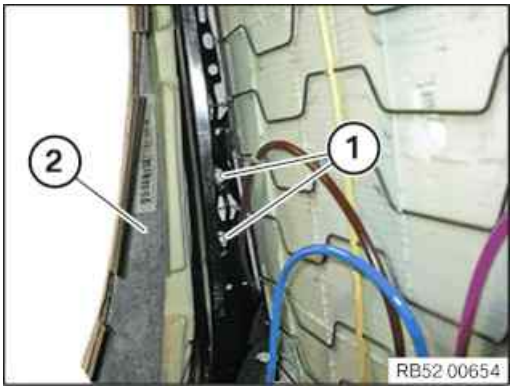
Feed in pump (3).

Attach valve body (2) to spring wire.

Connect the connector (1).

Fit cable strap.

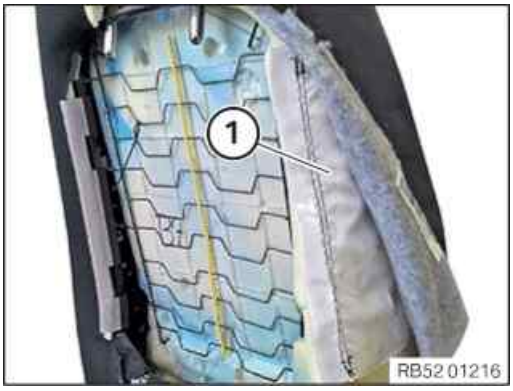
cardiagn.com



Position backrest cover (2) with upholstery from above onto backrest frame.

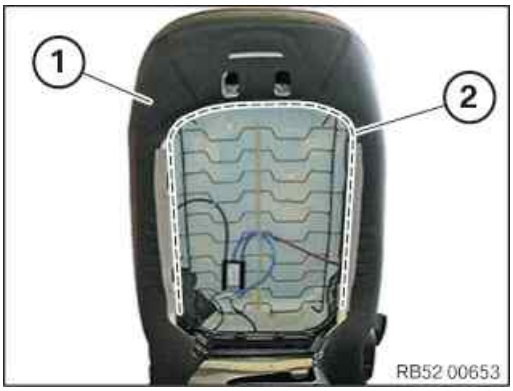
Feed in side airbag from below into backrest cover (2).

Tighten down nuts (1).

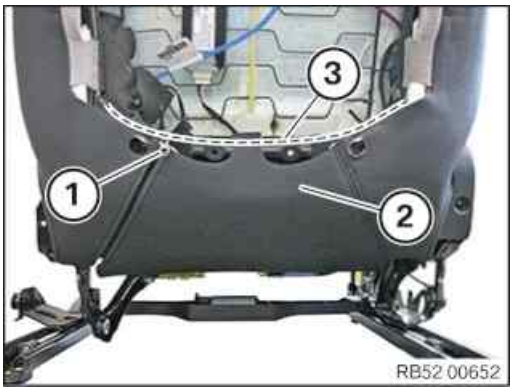


Note:
As per the version, the backrest cover can have one airbag pouch (1) on both sides.

Ensure that the unused airbag pouch (1) is kept tightly and crease-free between the cushion and the backrest cover.



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



Attach seat cover (2) in area (3) to backrest frame.

Close zip fastener (1).

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Attach tensioning straps (1) at left and right to seat mechanism.

Required follow-up work:

- Mount outer and inner cover
- Mount rear panel to front seat
- Install front seat
- Install guide sleeves for head restraint

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52 13 417 Replacing upholstery for driver's seat



Operation is described in:

- Replacing seat cover an driver's seat on left or right

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52 13 422 Replacing upholstery for driver's seat backrest



Operation is described in:

Replace backrest cover for driver's seat.

cardiagn.com

52 13 418 Replacing upholstery for front passenger seat



Important!

US/CDN front passenger seat (with CIS mat) only:

A faulty facing may only be replaced completely with the CIS mat.

New facing is supplied with CIS mat and, if necessary, seat heating.

After installation, the CIS mat must be enabled with the diagnosis system.

Individual parts not available.



Operation is described in:

- Replacing seat cover an front passenger seat on left or right



Enabling seat occupancy detector (CIS mat):

- Connect BMW diagnosis system
- Carry out service function or test module

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52 13 423 Replacing upholstery for front passenger seat backrest



Operation is described in:

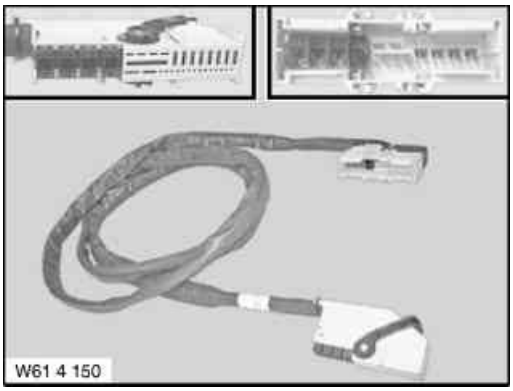
Replace backrest cover for front passenger seat.

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52 14 ... Performing function check with adapter cable (for seat repairs)

Special tools required:

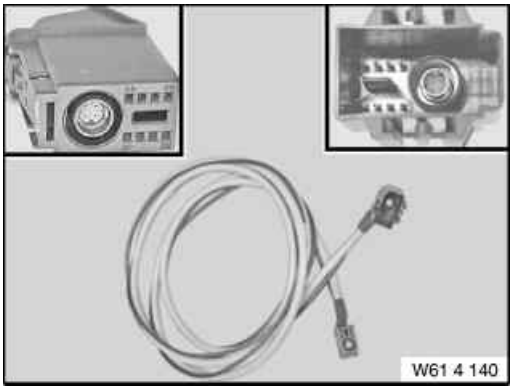
- 61 4 140
- 61 4 150



Seat function check: *Note:*
The function check on a repaired driver's or front passenger seat can be performed outside the vehicle by using adapter cable 61 4 150 .

Application:

Adapter cable is connected to vehicle wiring harness and removed seat 61 4 150 .



RSE (rear passenger compartment monitor) function check *Note:*
The function check of the RSE (rear passenger compartment monitor) on a repaired driver's or front passenger seat can be performed outside the vehicle by using adapter cable 61 4 140 .

Application:

Adapter cable is connected to vehicle wiring harness and removed seat 61 4 140 .

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52 14 526 Remove and install/replace seat mechanism on front seat (electrical) at left or right

Important!

The side airbag is integrated in the front seat.

Improper handling may trigger the side airbag and as a result cause injuries.

Observe safety regulations for handling components of airbag system.



Use of the universal seat mount is recommended for carrying out professional repairs.

Necessary preliminary work:

- Remove seat cover with upholstery
- Remove lower strap on front left or right
- Remove control unit for seat adjustment
- Remove support for operation

Version with light package:

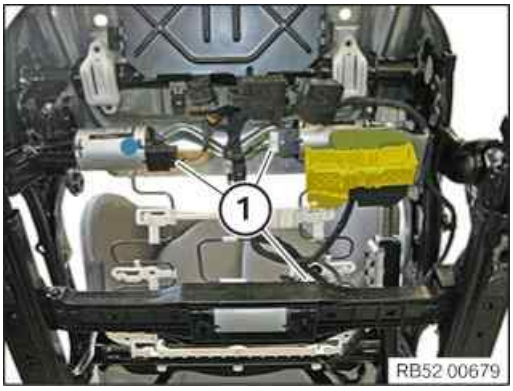
- Remove footwell lighting

Only front passenger seat, not US:

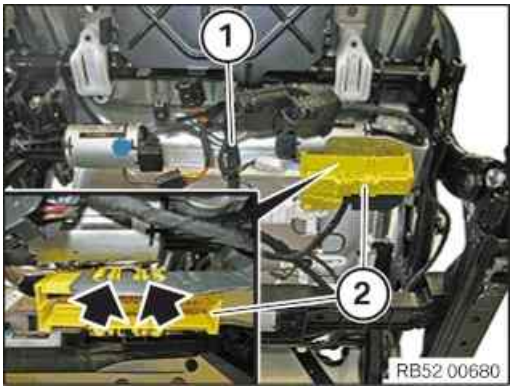
- Remove seat occupancy mat for SBE

Removal:

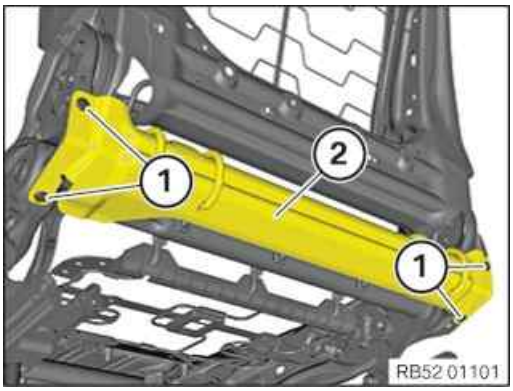
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Unlock plug connections (1) and disconnect.



Remove wiring harness (1) from all cable clips.
Unlock connector housing (2) and detach from seat mechanism to rear.
Feed out wiring harness (1) to rear away from seat mechanism.



Equipment specification with Isofix:
Drill out rivet (1).
Take off holder (2).
Remove remnants of rivets.



Release screws (1).
Remove backrest frame (2) from seat frame (3).

Depending on version:

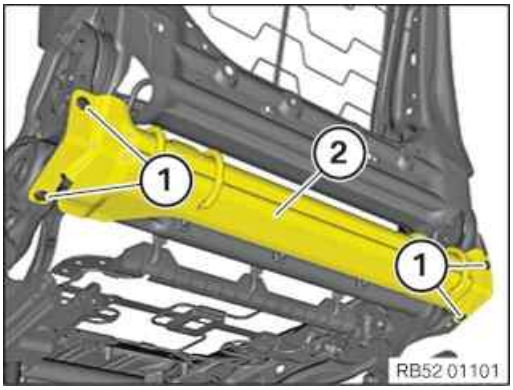
- Remount all trim parts from front seat

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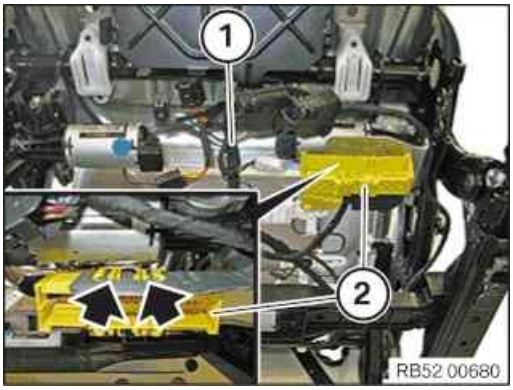
Installation:



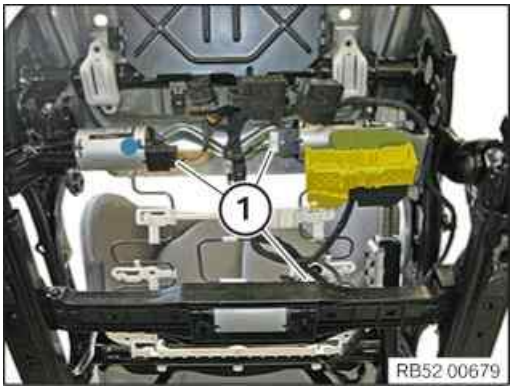
Fasten backrest frame (2) to seat frame (3) using screws (1).
Tightening torque 52 10 2AZ.



Equipment specification with Isofix:
Attach holder (2) using the rivets (1).



Feed in wiring harness (1).
Latch connector housing (2) into seat mechanism.
Fasten wiring harness (1) to all cable clips.



Connect the connector (1).

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Required follow-up work:

Only front passenger seat, not US:

- Mount seat occupancy mat for SBE

Version with light package:

- Mount footwell lighting

All variants:

- Mount seat cover with upholstery
- Mount lower strap at front left or right
- Mount control unit for seat adjustment
- Mount support for operation

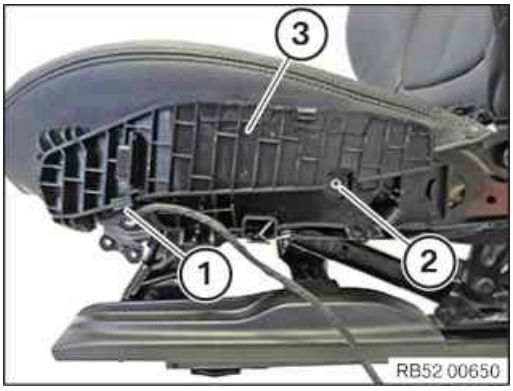
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52 13 ... Remove and install/replace support for operation on left or right front seat

Necessary preliminary tasks:

- Remove switch combination for seat adjustment

Removal:



Release cable clip (1).

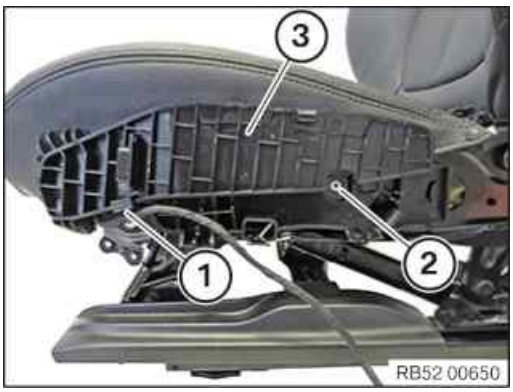
Lay out protective mats to protect interior equipment from swarf from drilled out rivet.

Drill out blind rivet (2).

Remove support (3) towards front.

Remove all rivet remnants.

Installation:



Insert support (3) from front and fix in place using blind rivet (2).

Secure cable clip (1).

Required follow-up work:

- Install operating unit for seat adjustment

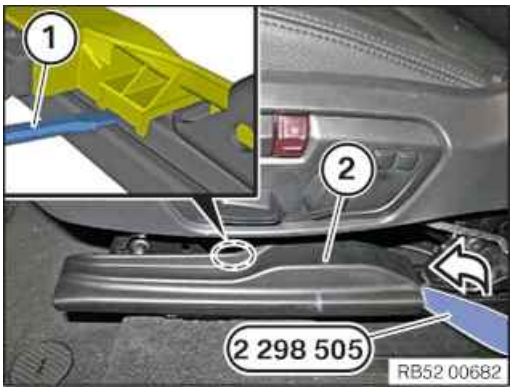
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52 13 ... Remove and install/replace trim on left or right front seat

Special tools required:

- 2 298 505

Removal:

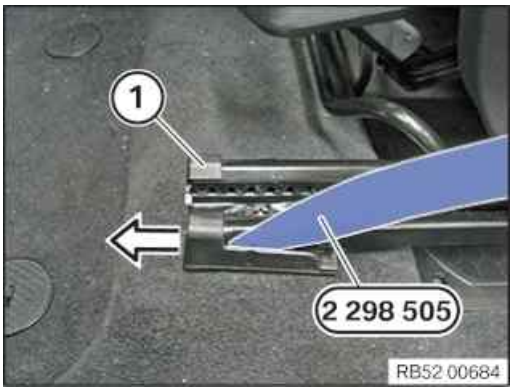


Side trim (for electric seat):

Slide screwdriver (1) from rear into marked area under the trim (2).

Raise trim (2) slightly using screwdriver (1).

Position special tool 2 298 505 at rear onto trim (1) and unclip forwards.

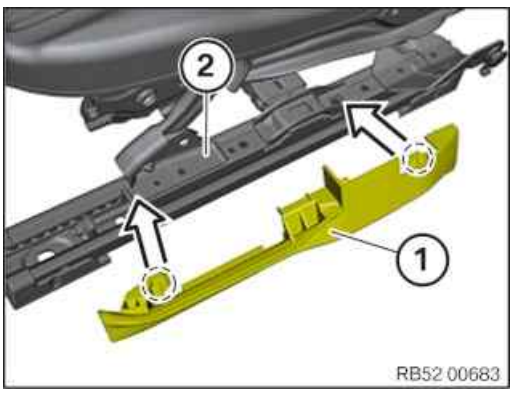


Seat rail trim:

Insert special tool 2 298 505 at side into trim (1).

Unclip cover (1) towards front.

Installation:

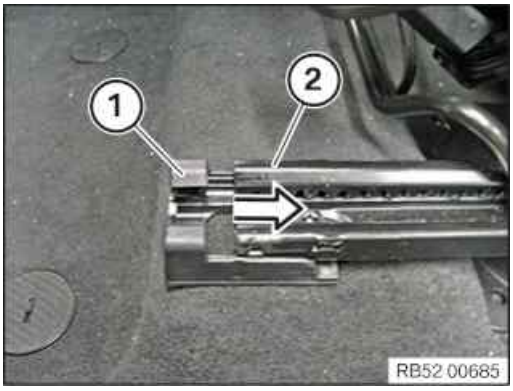


Side trim (for electric seat):

Position trim (1) from front with guides onto seat mechanism (2).

Clip trim (1) to rear into seat mechanism (2).

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Seat rail trim:

Slide trim (1) from front onto seat rail (2).

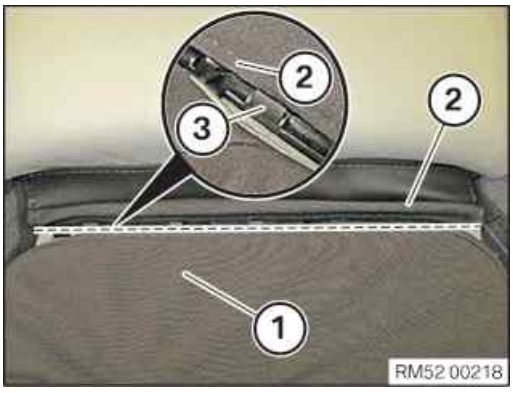
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52 15 050 Remove or install left or right thigh support from/on the front seat (sport/manual)

Important!

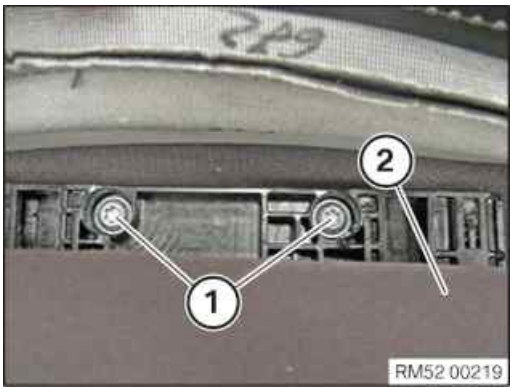
- Microencapsulated screws must be coated with Loctite if they are to be reused
- Screw connection must be completed within 20 min. (start of hardening)
- Microencapsulated screws must not be retightened
- Thread of nut must be cleaned beforehand in event of repeated use

Removal:



Adjust thigh support (1) towards the front.

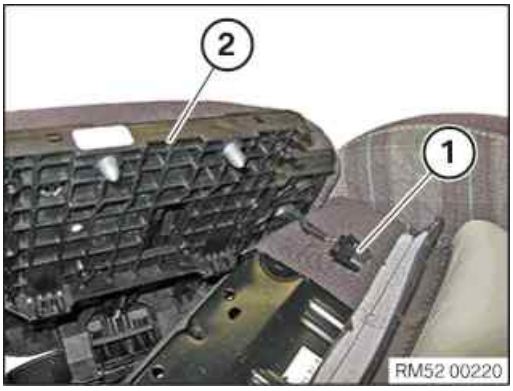
Lever out welt (2) of seat cover out of bracket (3).



Release screws (1).

Detach thigh support (2) towards the front and remove.

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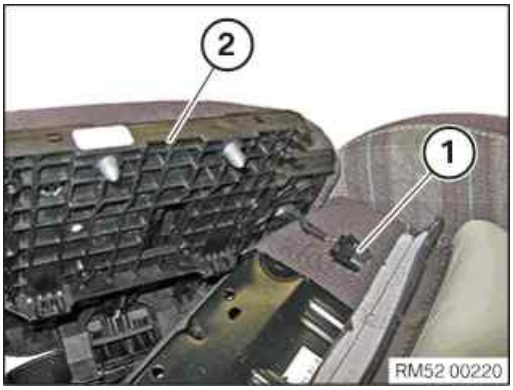


Version with seat heating only:

Unfasten plug connection (1) and disconnect.

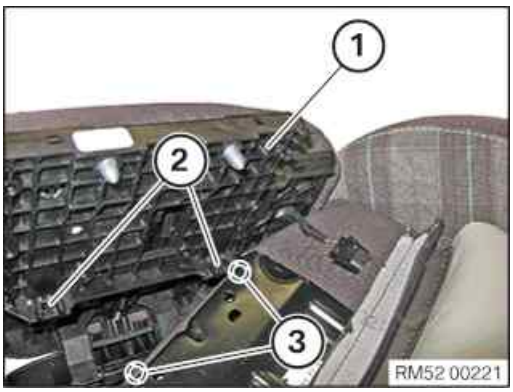
Remove thigh support (2).

Installation:

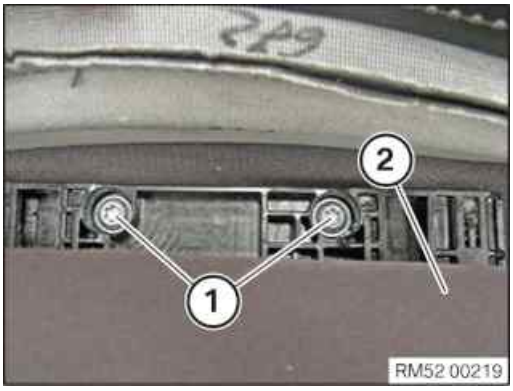


Version with seat heating only:

Position thigh support (2) and connect connector (1).

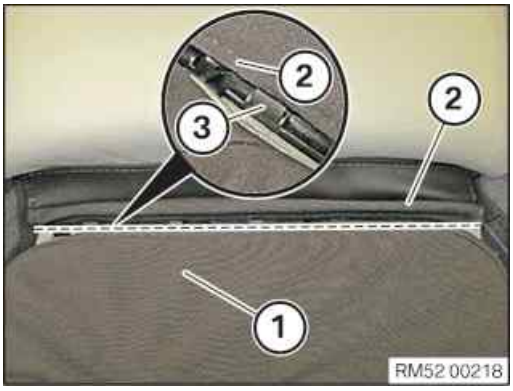


Feed in thigh support (1) with guides (2) into corresponding openings on seat frame (3).



Tighten down screws (1).

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Attach welt (2) of seat cover in bracket (3).

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52 13 001 Removing and installing front seat, driver's side

Attention!

The side airbag is integrated in the front seat.

Improper handling may trigger the side airbag and as a result cause injuries.

Observe safety regulations for handling components of airbag system.

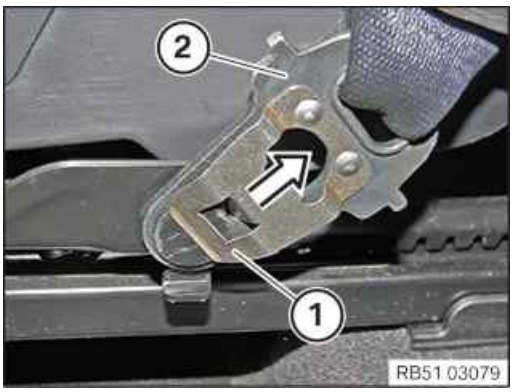
Necessary preliminary tasks:

- Disconnect battery earth lead

Removal:



Slide cover (1) on seat belt (2) upwards.



Turn end fitting (2) towards rear.

Pull lock washer (1) outwards carefully.

At the same time, feed out end fitting (2) towards front.

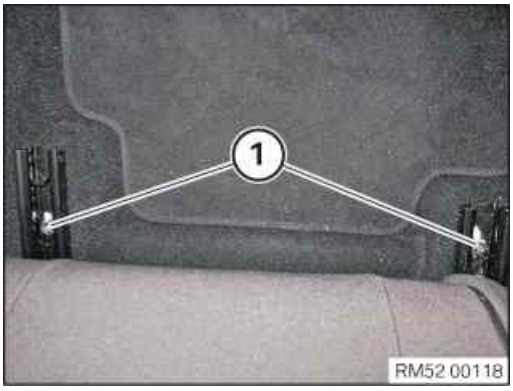
Remove end fitting (2) outwards.

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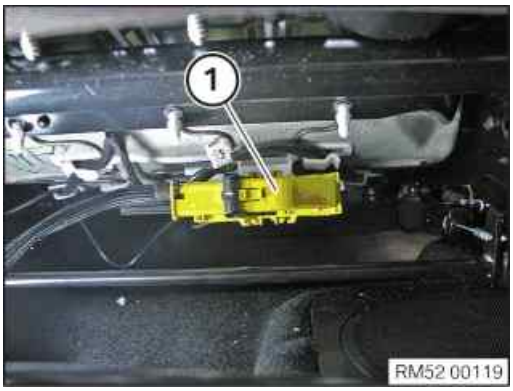
Adjust front seat completely to the rear.

Release front screws (1).



Adjust front seat completely to the front.

Release rear screws (1).



Unlock and disconnect the connector (1).

Attention!

Cover entrances with protective covers (risk of damage!)

Carefully lift out front seat.



Warning!

When carrying out further work on the front seat, it is absolutely imperative to observe the safety regulations on handling airbag modules and pyrotechnical seat belt tensioners

Improper handling can lead to triggering of the pyrotechnical seat belt tensioner or side airbag, resulting in injuries.

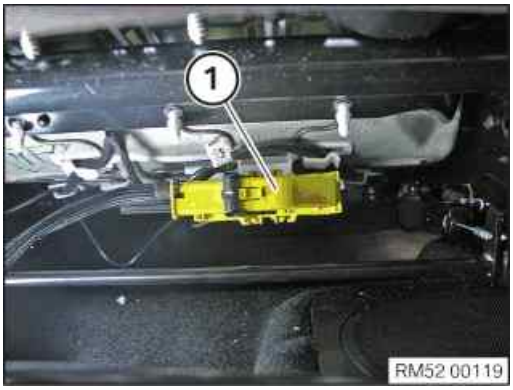
Installation:

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Installation note:

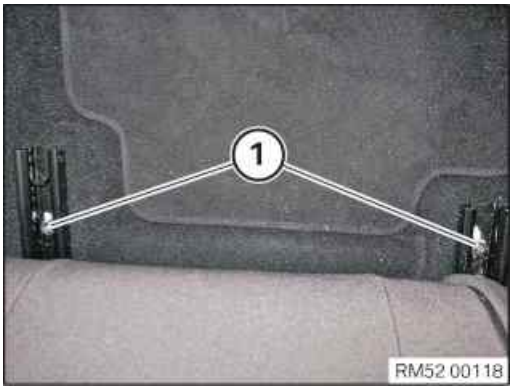
- Carpet must not get between seat rails and floor panel in area of attachment points (groaning noises)
- Insert all screws loose to avoid twisting
- Renew all screws and tighten to the specified torque

  Tightening torque 52 10 1AZ.



Carefully lift and position front seat in vehicle.

Connect the connector (1).



Tighten rear screws (1).*Note:*
Renew screws.

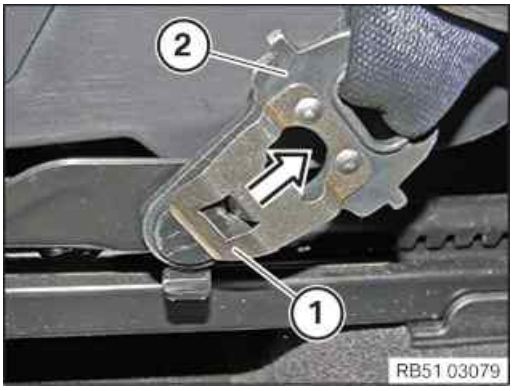
Tightening torque 52 10 1AZ.



Tighten front screws (1).*Note:*
Renew screws.

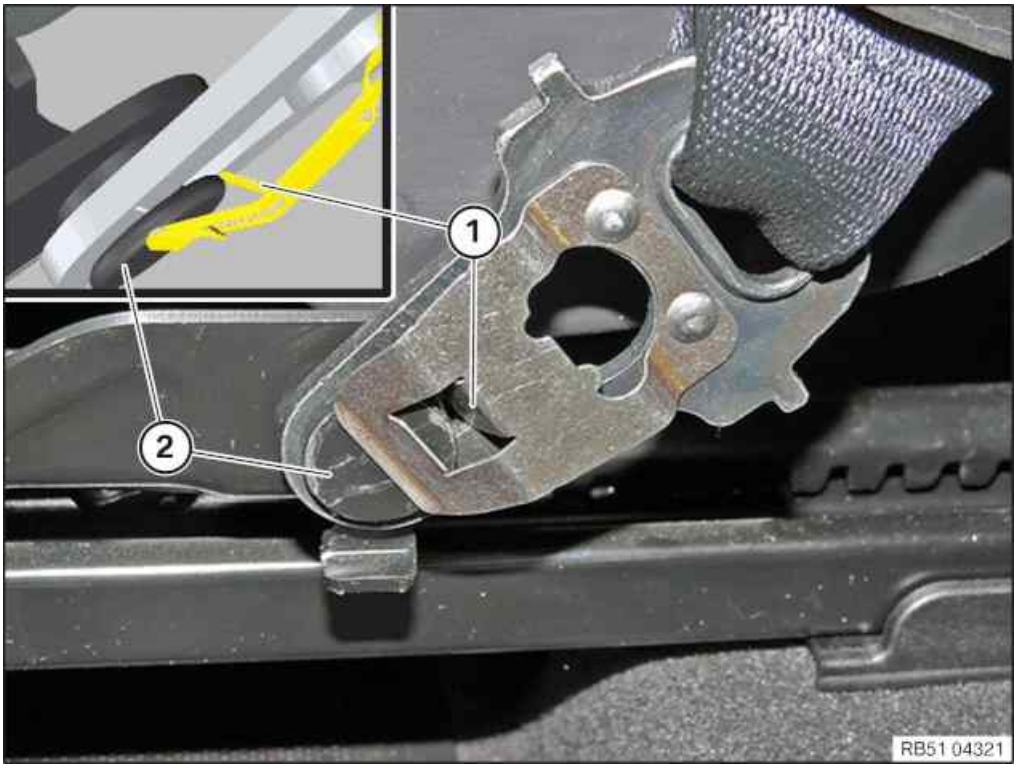
Tightening torque 52 10 1AZ.

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Feed in end fitting (2) and engage.**Attention!**

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



Retaining tab (1) must engage correctly behind the bolt (2).

Attention!

Malfunction if latch mechanism is not correct.

Ask a second person to check the latch mechanism (four-eyes principle).

Both persons must document that the work has been carried out correctly in the vehicle records.

Remember the following video animation.

Video animation "Fasten seat belt at the seat"

Your browser doesn't support HTML5 video.



Slide cover (1) on seat belt (2) downwards.**Attention!**

Perform the concluding check:

Pull end fitting forward, upward and backward.

If the end fitting is not correctly engaged, it cannot be turned on the bolt!

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Required follow-up work:

- Connect battery earth lead

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52 13 002 Removing and installing front seat, passenger's side

Attention!

The side airbag is integrated in the front seat.

Improper handling may trigger the side airbag and as a result cause injuries.

Observe safety regulations for handling components of airbag system.

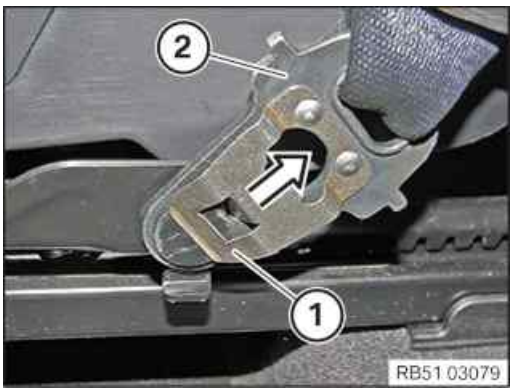
Removal:

Necessary preliminary tasks:

- Disconnect battery earth lead



Slide cover (1) on seat belt (2) upwards.



Turn end fitting (2) towards rear.

Pull lock washer (1) outwards carefully.

At the same time, feed out end fitting (2) towards front.

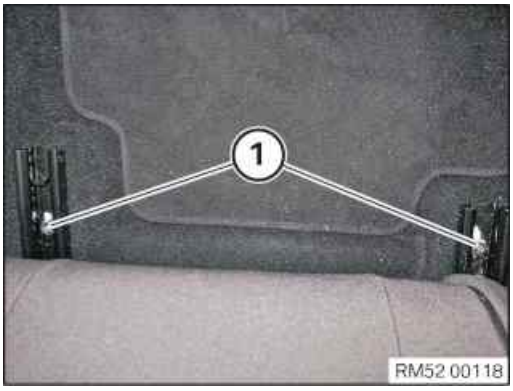
Remove end fitting (2) outwards.

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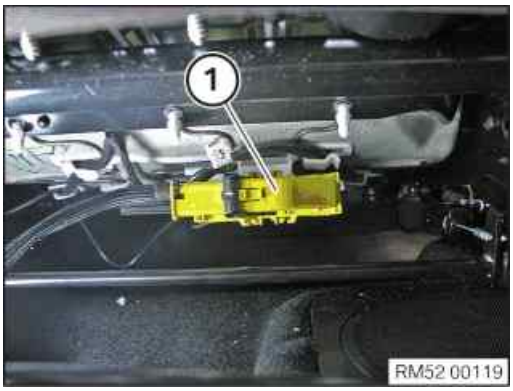
Adjust front seat completely to the rear.

Release front screws (1).



Adjust front seat completely to the front.

Release rear screws (1).



Unlock and disconnect the connector (1).

Attention!

Cover entrances with protective covers (risk of damage!)

Carefully lift out front seat.



Warning!

When carrying out further work on the front seat, it is absolutely imperative to observe the safety regulations on handling airbag modules and pyrotechnical seat belt tensioners

Improper handling can lead to triggering of the pyrotechnical seat belt tensioner or side airbag, resulting in injuries.

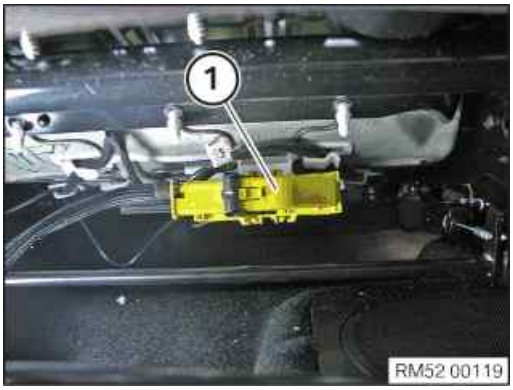
Installation:

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Installation note:

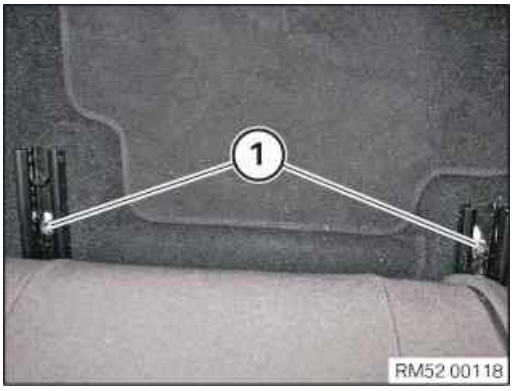
- Carpet must not get between seat rails and floor panel in area of attachment points (groaning noises)
- Insert all screws loose to avoid twisting
- Renew all screws and tighten to the specified torque

  Tightening torque 52 10 1AZ.



Carefully lift and position front seat in vehicle.

Connect the connector (1).



Tighten rear screws (1).*Note:*
Renew screws.

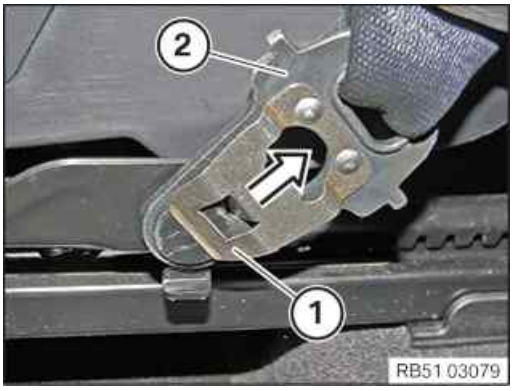
Tightening torque 52 10 1AZ.



Tighten front screws (1).*Note:*
Renew screws.

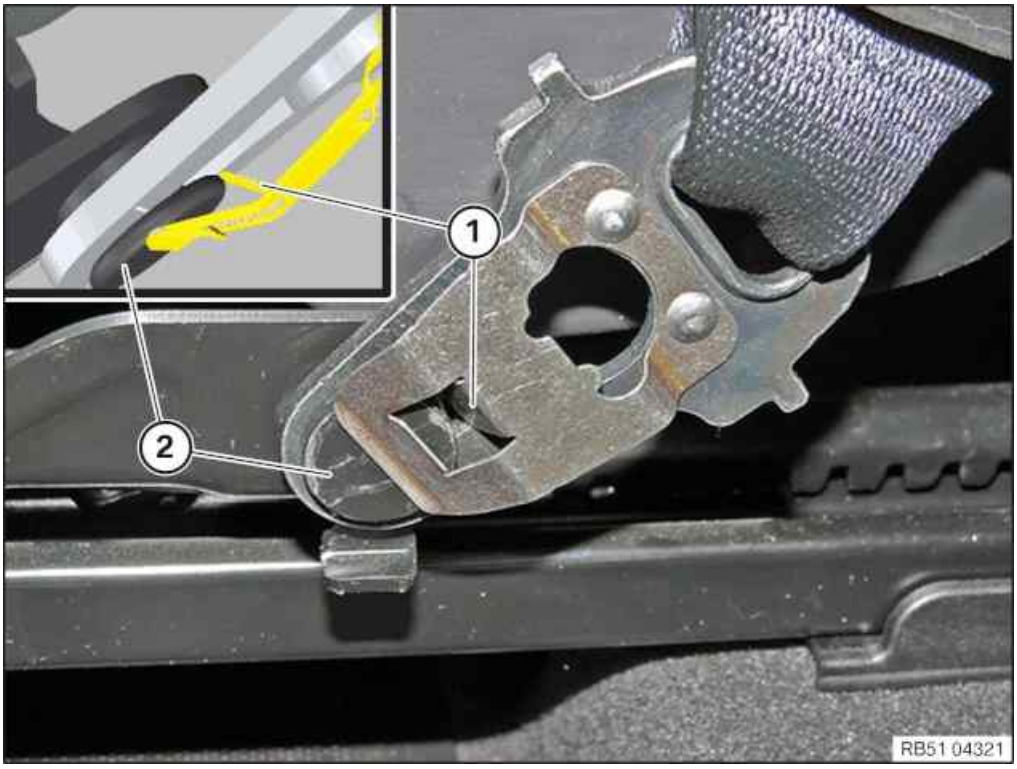
Tightening torque 52 10 1AZ.

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Feed in end fitting (2) and engage.**Attention!**

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



Retaining tab (1) must engage correctly behind the bolt (2).

Attention!

Malfunction if latch mechanism is not correct.

Ask a second person to check the latch mechanism (four-eyes principle).

Both persons must document that the work has been carried out correctly in the vehicle records.

Remember the following video animation.

Video animation "Fasten seat belt at the seat"

Your browser doesn't support HTML5 video.



Slide cover (1) on seat belt (2) downwards.**Attention!**

Perform the concluding check:

Pull end fitting forward, upward and backward.

If the end fitting is not correctly engaged, it cannot be turned on the bolt!

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Required follow-up work:

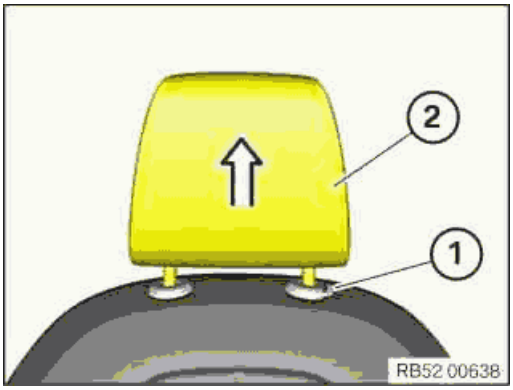
- Connect battery earth lead

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52 13 390 Removing and installing or replacing front left or right head restraint

[redacted]

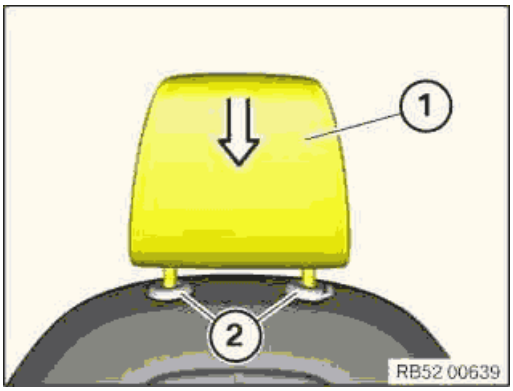
Removal:



Press height adjustment (1) and pull out head restraint (2) upwards.

[redacted]

Installation:



Insert head restraint (1) from above into guide sleeves (2) and latch into place.

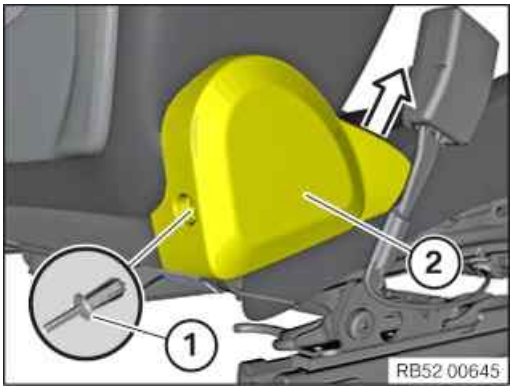
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52 13 041 Removing and installing or replacing inner cover on left or right front seat

Necessary preliminary work:

- Remove front seat

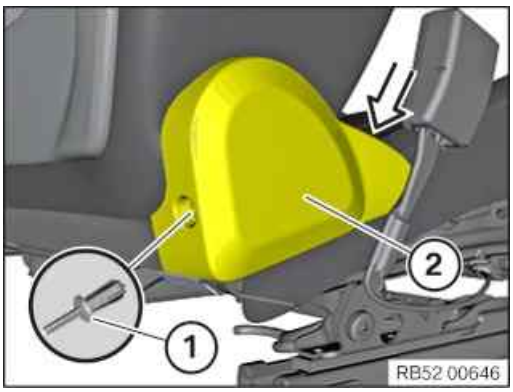
Removal:



Release expansion rivet (1).

Remove cover (2) in direction of arrow.

Installation:



Install cover (2) in the direction of the arrow.

Attach expanding rivet (1).

Required follow-up work:

- Install front seat

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52 13 198 Removing and installing or replacing rear panel on left or right front seat backrest

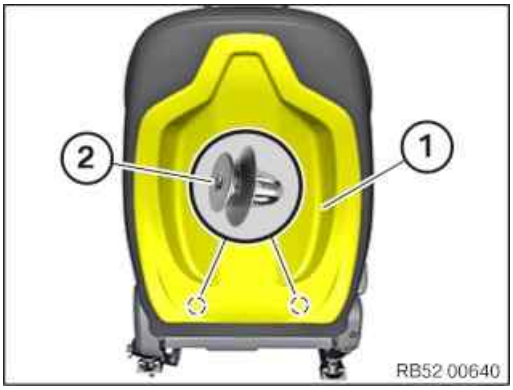
Removal:



Version with foldaway table:

Press together the lock and completely move the oddments table (1) upwards.

Detach the oddments table (1) from the rail.



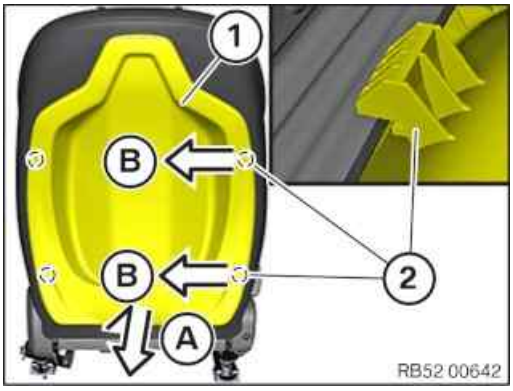
Loosen the rear panel (1) from the clips (2) towards the rear.



Reach behind rear panel (1) and push latch mechanisms (2) upwards.

Hold rear panel (1) to rear under tension.

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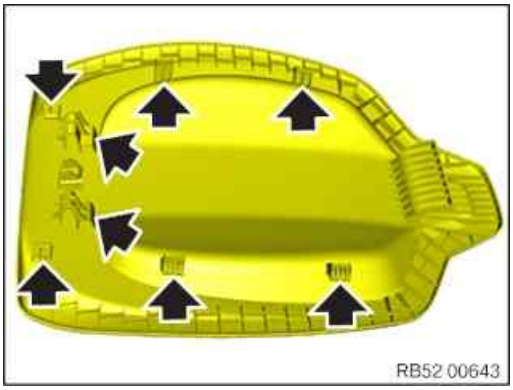


Pull rear panel (1) in lower area slightly to rear/down, direction of arrow (A).

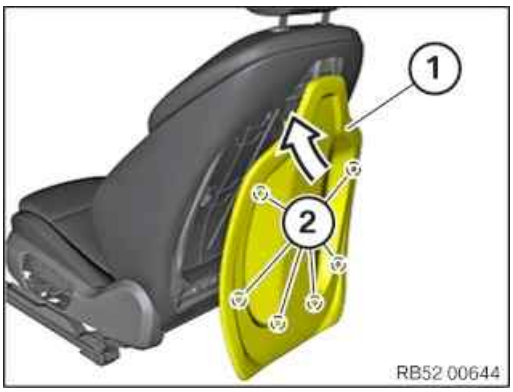
Push rear panel (1) in direction of arrow (B) and release latch mechanisms (2).

Thread rear panel (1) out of seat.

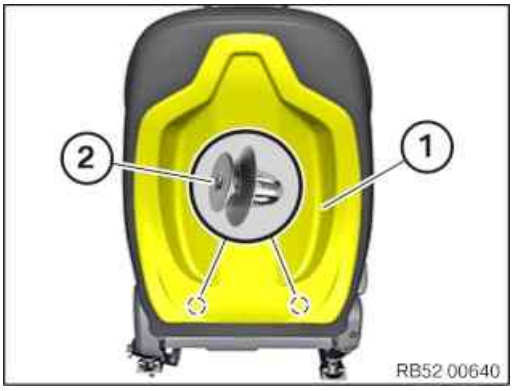
Installation:



Note:
Latch mechanisms and clips must not be missing or damaged.



Insert the rear panel into the seat and clip into the latch mechanisms (2) on the seat.



Secure the rear panel (1) on the seat using the clips (2).

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Version with foldaway table:

Press together the lock and insert the oddments table (1) into the rail at the very top.

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52 13 ... Removing and installing/exchanging guide for left or right front seat head restraint

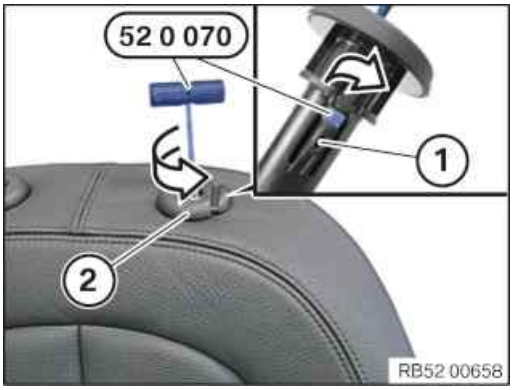
Special tools required:

- 52 0 070

Necessary preliminary tasks:

- Remove head restraint

Removal:

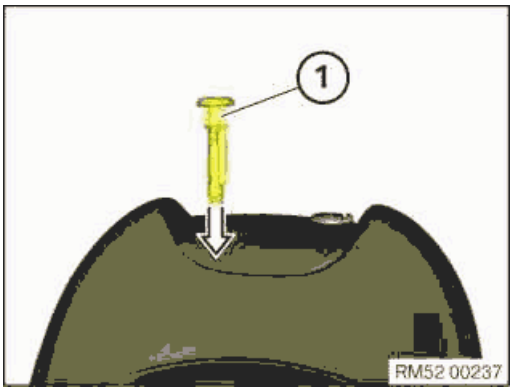


Insert special tool 52 0 070 into guide hole of sleeve (2) up to upper area of retaining lug.

Feed in unlocking tab of special tool behind the latch mechanism (1).

Turn tool to release sleeve (2) and pull out by lifting upwards.

Installation:



Insert guide (1) from above and engage.

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Required reworking:

- Install head restraint

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52 15 530 Removing and installing/replacing backrest frame for left or right front seat

Attention!

The side airbag is integrated in the front seat.

Improper handling may trigger the side airbag and as a result cause injuries.

Observe safety regulations for handling components of airbag system.

Necessary preliminary tasks:

- Remove rear panel
- Remove seat
- Remove guides for head restraint
- Remove inner and outer cover



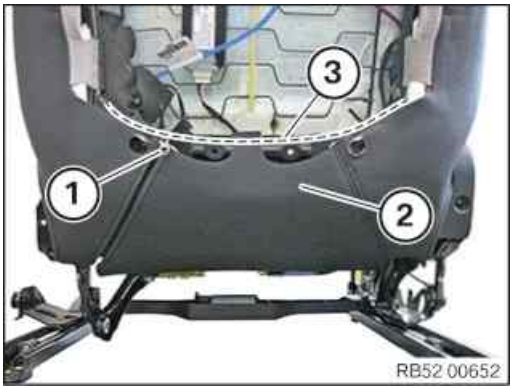
Use of the universal seat mount is recommended for carrying out expert repairs.

Removal:



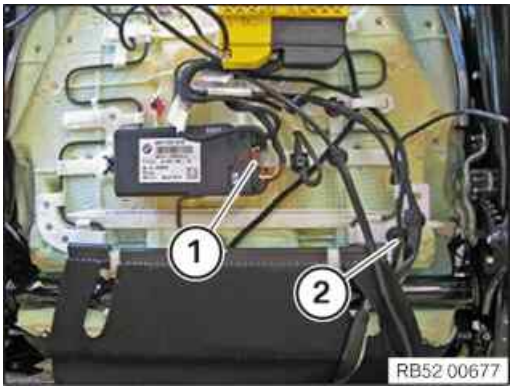
Detach tensioning straps (1) at left and right from seat mechanism.

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Open zip fastener (1).

Detach seat cover (2) in area (3) from backrest frame.

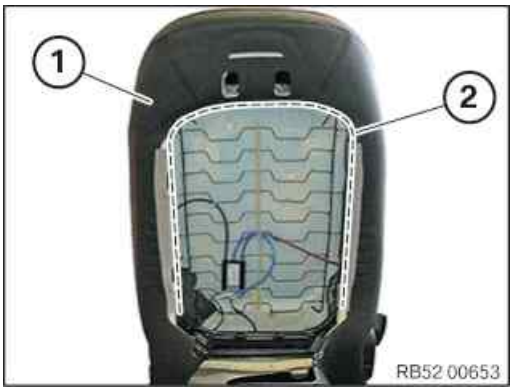


Version with seat heating:

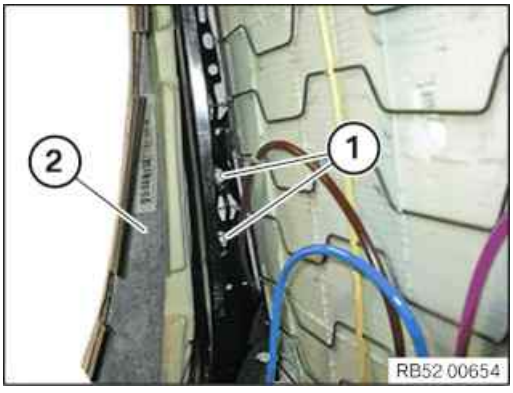
Unfasten plug connection (1) and disconnect.

Unfasten cable strap (2).

Feed back cable.



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



Unscrew nuts (1).

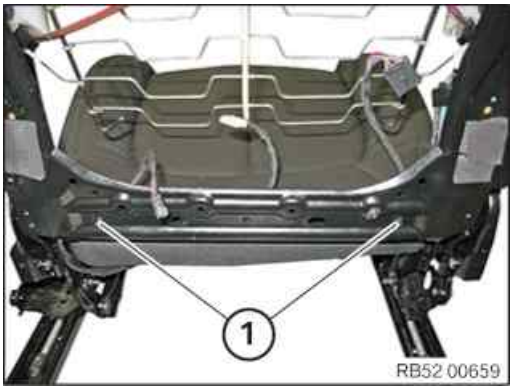
Feed side airbag downwards and out of backrest cover (2).

Remove backrest cover (2) with upholstery upwards from backrest frame.

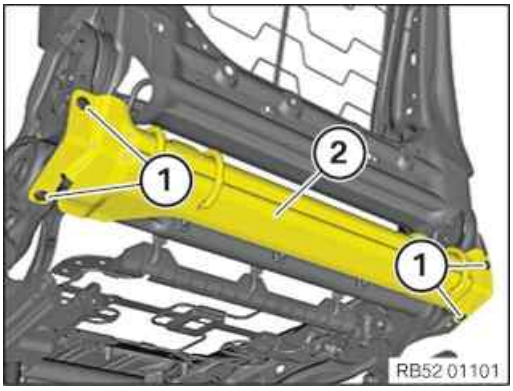
Depending on version:

- Remove backrest width adjustment
- Remove backrest width adjustment with lumbar support
- Remove lumbar support

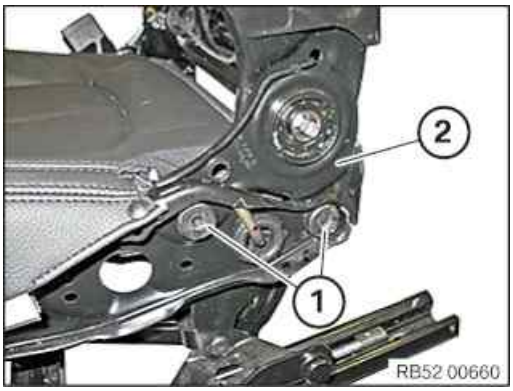
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Release wiring harness at clips (1) from backrest frames.
Carefully feed wiring harness out of backrest frame.

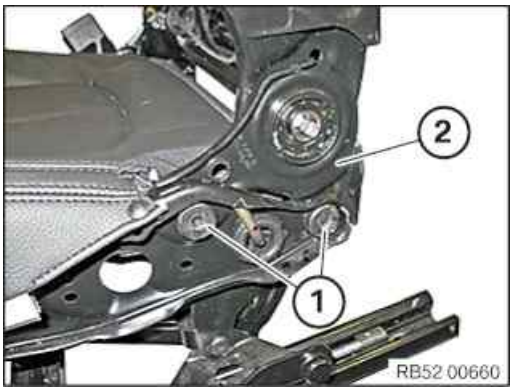


Equipment specification with Isofix:
Drill out rivet (1).
Take off holder (2).
Remove remnants of rivets.



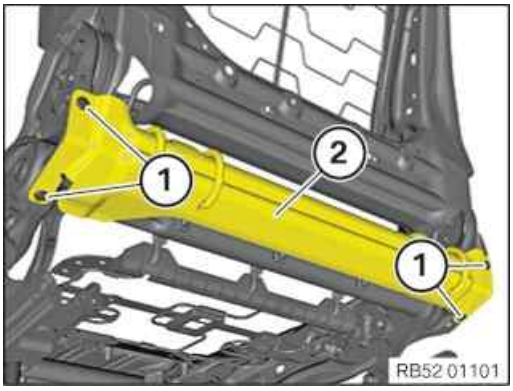
Release screws (1) on left and right.
Remove backrest frame (2).

Installation:



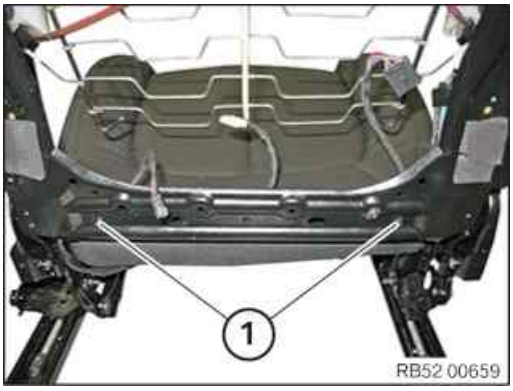
Fasten backrest frame (2) in place using screws (1).
Tightening torque 52 10 2AZ.

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Equipment specification with Isofix:

Attach holder (2) using the rivets (1).

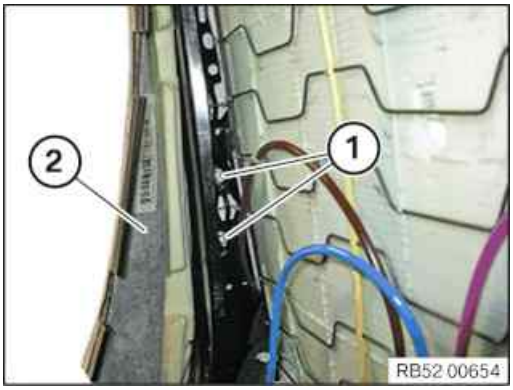


Feed wiring harness into backrest frame.

Attach wiring harness with clips (1) on backrest frame.

Depending on version:

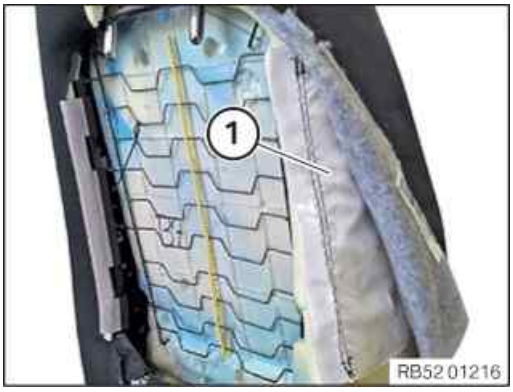
- Install backrest width adjustment
- Install backrest width adjustment with lumbar support
- Install lumbar support



Position backrest cover (2) with upholstery from above onto backrest frame.

Feed in side airbag from below into backrest cover (2).

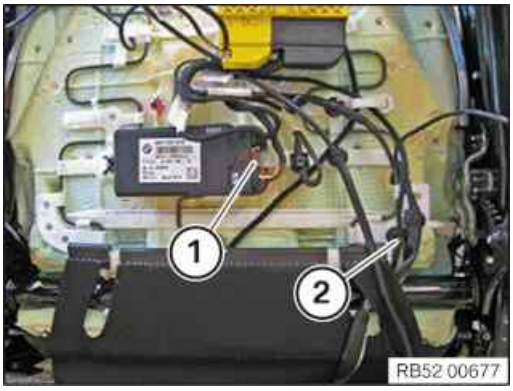
Tighten down nuts (1).



Note:
As per the version, the backrest cover can have one airbag pouch (1) on both sides.

Ensure that the unused airbag pouch (1) is kept tightly and crease-free between the cushion and the backrest cover.

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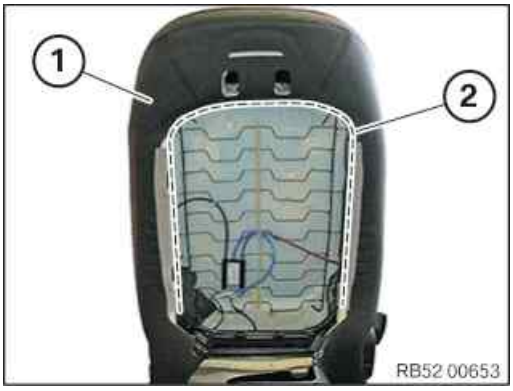


Version with seat heating:

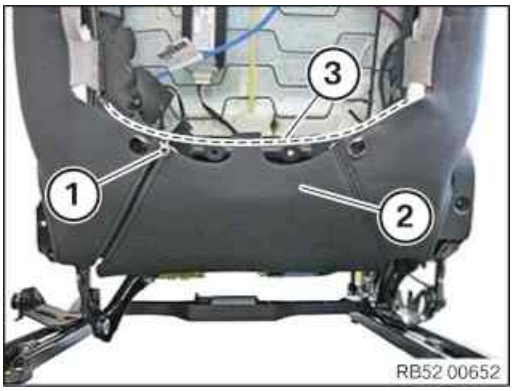
Feed in cable.

Secure cable clip (2).

Connect the connector (1).



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



Attach seat cover (2) in area (3) to backrest frame.

Close zip fastener (1).



Attach tensioning straps (1) at left and right to seat mechanism.

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Required follow-up work:

- Mount inner and outer cover
- Mount guides for head restraint
- Install the seat
- Mount rear panel

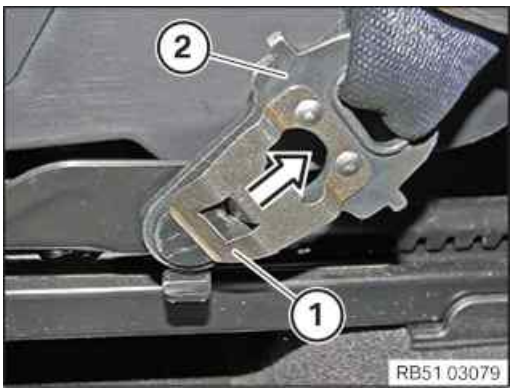
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52 14 040 Removing and installing/replacing outer cover on left or right front seat (electric)

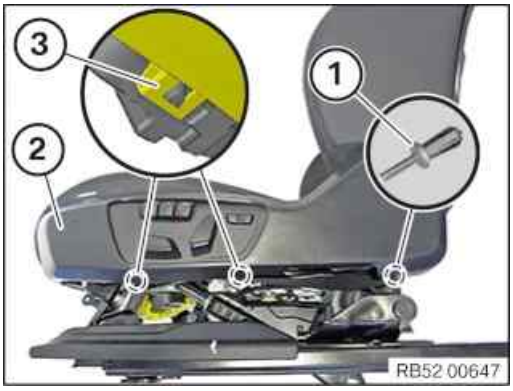
Removal:



Slide cover (1) on seat belt (2) upwards.



Turn end fitting (2) towards rear.
Carefully pull the retaining clip (1) towards the outside.
At the same time, feed out end fitting (2) towards front.
Remove end fitting (2) outwards.



Release expansion rivet (1).
Loosen cover (2) from the latch mechanisms (3) towards the outside.

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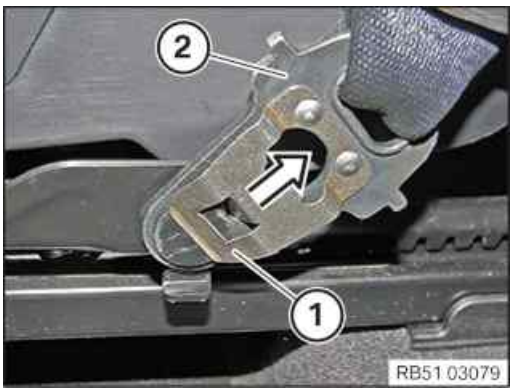
Slightly pull cover (1) outwards in lower area and pull off the latch mechanisms (2) towards the top.

Installation:



Position cover (1) on front seat and secure to the upper and lower latch mechanisms.

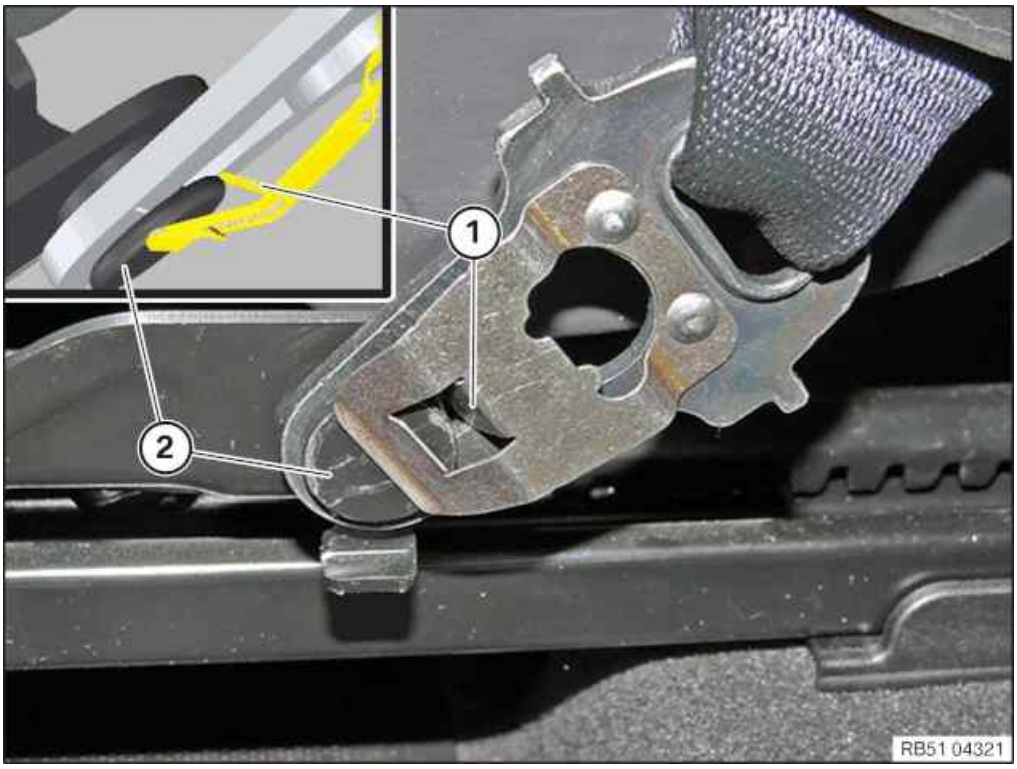
Position expanding rivet (2).



Insert end fitting (2).**Attention!**

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

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Retaining tab (1) must engage correctly behind the bolt (2).

Attention!

Malfunction if latch mechanism is not correct.

Ask a second person to check the latch mechanism (four-eyes principle).

Both persons must document that the work has been carried out correctly in the vehicle records.

Remember the following video animation.

Video animation "Fasten seat belt at the seat"

Your browser doesn't support HTML5 video.



Slide cover (1) on seat belt (2) downwards.**Attention!**

Perform the concluding check:

Pull end fitting forward, upward and backward.

If the end fitting is not correctly engaged, it cannot be turned on the bolt!

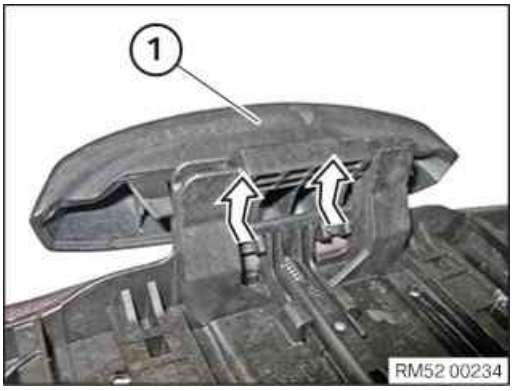
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52 15 403 Removing or installing/replacing thigh support cover on left or right front seat (Sport)

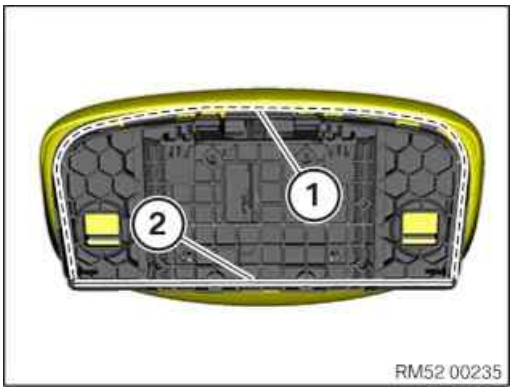
Necessary preliminary tasks:

- Remove thigh support

Removal:



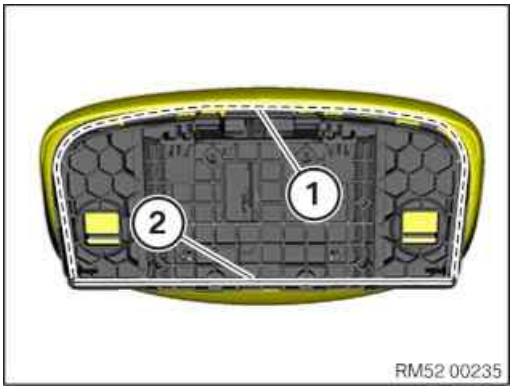
Detach handle (1) in direction of arrow and remove.



Lever out cover welt in marked area (1).
Detach trim wire in marked area (2) from thigh support.
Remove seat cover.

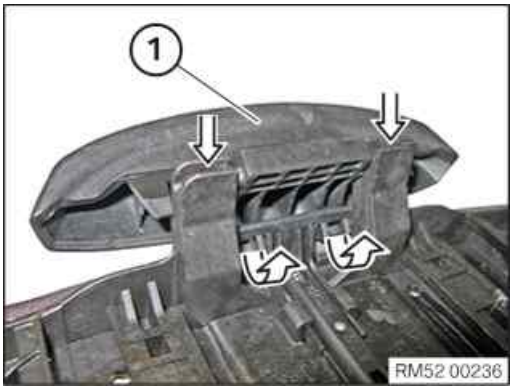
Installation:

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Attach cover welt in marked area (1).

Attach trim wire to thigh support in marked area (2).



Attach handle (1) in direction of arrow.

Required follow-up work:

- Install thigh support

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52 15 400 Replace seat cover for front seat (Sport) at left or right

Special tools required:

- 52 0 050

Warning!

Danger of injury!

The seat frame has very sharp edges that can cause injuries from cuts.

Exercise extreme caution and wear work gloves as required when carrying out any repair work in the area of the seat frame.

Important!

Risk of damage on sharp-edged seat mechanism.

Guide all cables carefully through seat and backrest mechanism.

Make sure cable is routed without kinks and tension.

Make sure plug connections are correctly locked.

Make sure connectors are correctly seated in latch mechanisms.

Important!

- Microencapsulated screws must be coated with Loctite if they are to be reused
- Screw connection must be completed within 20 min. (start of hardening)
- Microencapsulated screws must not be retightened
- Thread of nut must be cleaned beforehand in event of repeated use

Necessary preliminary tasks:

- Remove front seat
- Remove thigh support
- Remove inner cover
- Remove outer cover

Removal:

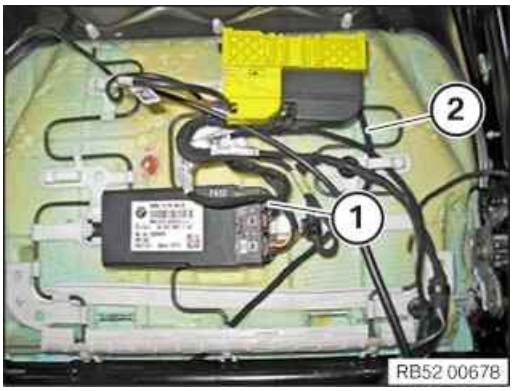
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Use of the universal seat mount is recommended for carrying out professional repairs.



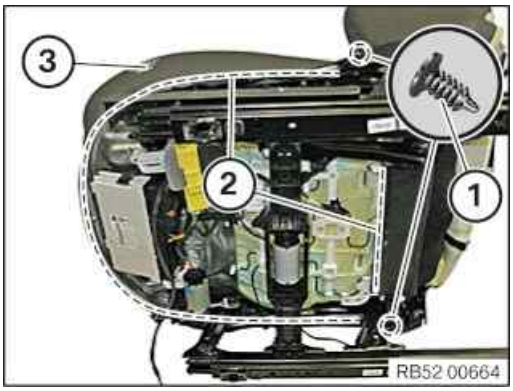
Detach tensioning straps (1) at left and right from seat mechanism.



<u>On versions with seat heating:</u>

Unfasten plug connection (1) and disconnect.

Feed back attendant cable (2).



Release clamps (1).

Unhook welt (2).

Remove seat cover (3) with support.

If necessary, feed out cable.

Important!

Feed the wiring harness carefully through the seat and backrest mechanism as the edges of the frame can be sharp.

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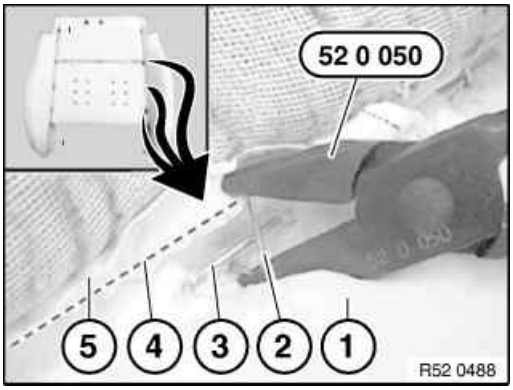
Release all clamps in marked area.

Remove seat cover from upholstery.

Important!

Remove all remnants of clamps from seat cover and upholstery.

Installation:

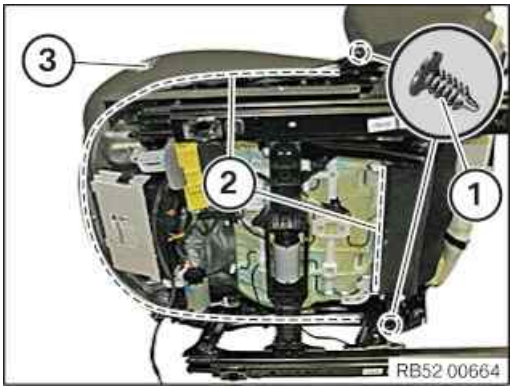


Position seat cover.

Parts: Replace upholstery clamps.

Bend new clamps (2) with special tool 52 0 050 .

1. Upholstery
2. Clamp
3. Trim wire in upholstery
4. Trim wire in seat cover
5. Seat cover



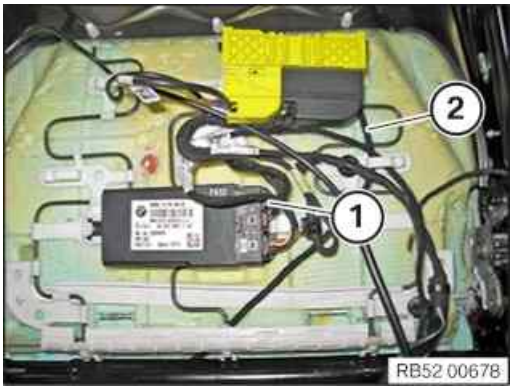
Mount seat cover (3) with upholstery onto seat mechanism.

Important!

Feed the wiring harness carefully through the seat and backrest mechanism as the edges of the frame can be sharp.

Attach welt (2).

Fasten clips (1).



On versions with seat heating:

Feed in cable (2).

Connect the plug (1).

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Attach tensioning straps (1) at left and right to seat mechanism.

Required follow-up work:

- Install outer cover
- Install inner cover
- Install thigh support
- Install front seat

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52 15 417 Replace upholstery for thigh support (Sport) at left or right



Operation is identical to:

- Remove and install upholstery on thigh support on front seat

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52 13 407 Replacing backrest cover for driver's seat

Special tools required:

- 52 0 050

Attention!

The side airbag is integrated in the front seat.

Improper handling may trigger the side airbag and as a result cause injuries.

Observe safety regulations for handling components of airbag system.

Necessary preliminary tasks:

- Remove rear panel
- Remove seat
- Remove guides for head restraint
- Remove inner and outer cover



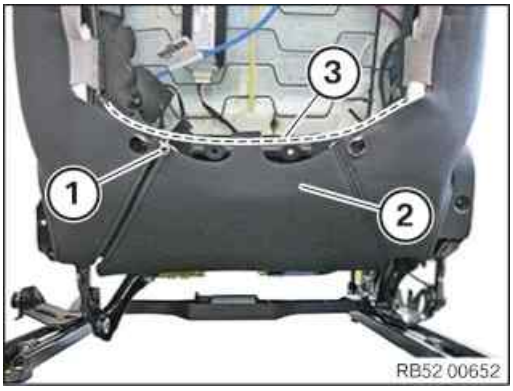
Use of the universal seat mount is recommended for carrying out expert repairs.

Removal:

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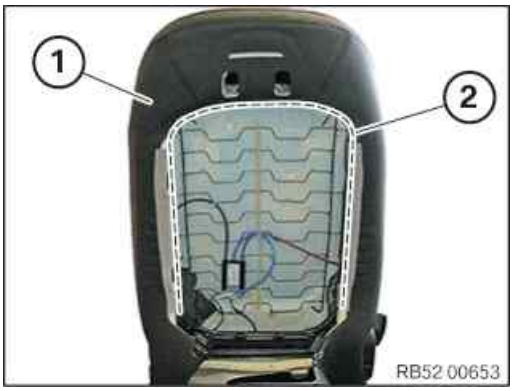


Detach tensioning straps (1) at left and right from seat mechanism.

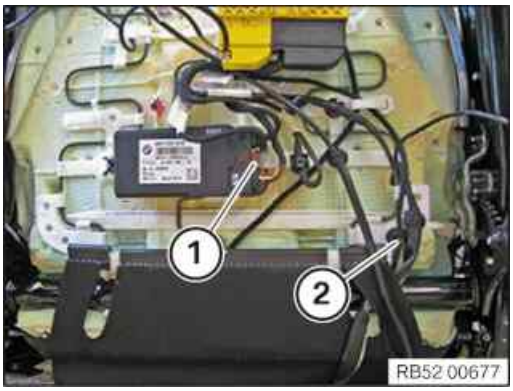


Open zip fastener (1).

Detach seat cover (2) in area (3) from backrest frame.



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



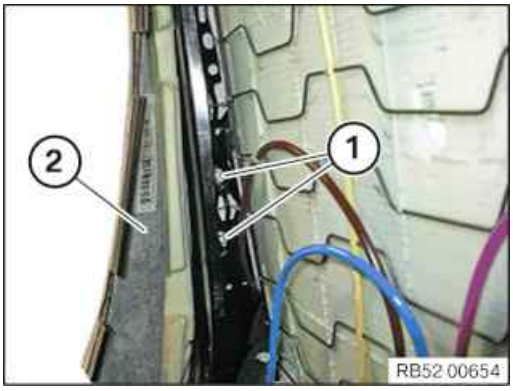
<u>On versions with seat heating:</u>

Unfasten plug connection (1) and disconnect.

Unfasten cable strap (2).

Feed back cable.

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Unscrew nuts (1).

Feed side airbag downwards and out of backrest cover (2).

Remove backrest cover (2) with upholstery upwards from backrest frame.



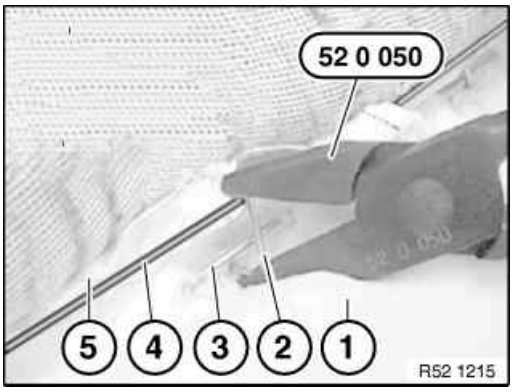
Release all clamps in marked area.

Remove seat cover from upholstery.

Attention!

Remove all remnants of clamps from seat cover and upholstery.

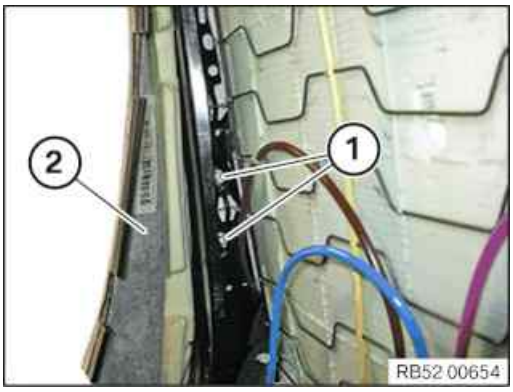
Installation:



Parts: Replace clamps (2).

Insert new clamp (2) with special tool 52 0 050 and bend closed.

1. Upholstery
2. Clamp
3. Trim wire in upholstery
4. Trim wire in seat cover
5. Backrest cover

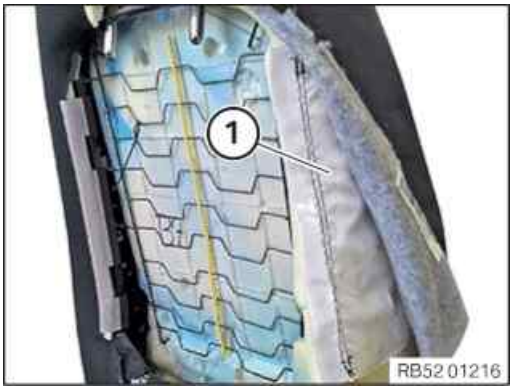


Position backrest cover (2) with upholstery from above onto backrest frame.

Feed in side airbag from below into backrest cover (2).

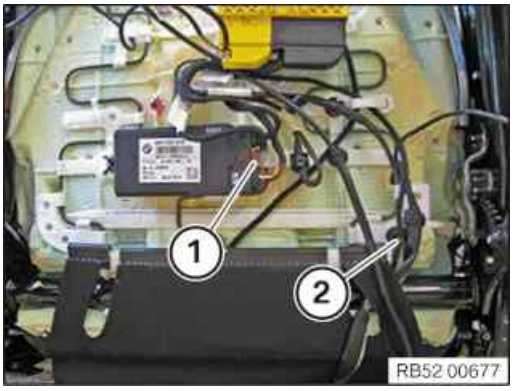
Tighten down nuts (1).

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Note:
As per the version, the backrest cover can have one airbag pouch (1) on both sides.

Ensure that the unused airbag pouch (1) is kept tightly and crease-free between the cushion and the backrest cover.

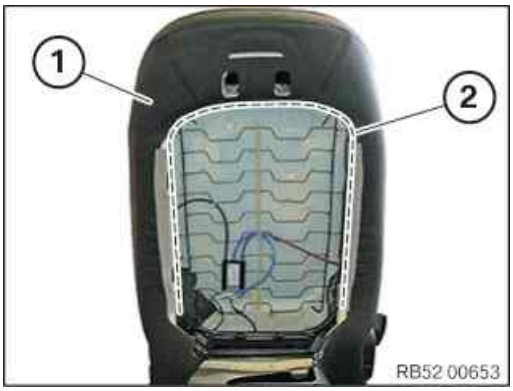


<u>On versions with seat heating:</u>

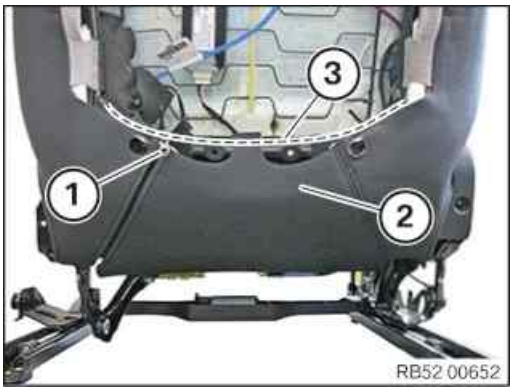
Feed in cable.

Secure cable clip (2).

Connect the connector (1).



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



Attach seat cover (2) in area (3) to backrest frame.

Close zip fastener (1).

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Attach tensioning straps (1) at left and right to seat mechanism.

Required follow-up work:

- Mount inner and outer cover
- Mount guides for head restraint
- Install the seat
- Mount rear panel

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52 13 408 Replacing backrest cover for front passenger seat

Special tools required:

- 52 0 050

Attention!

The side airbag is integrated in the front seat.

Improper handling may trigger the side airbag and as a result cause injuries.

Observe safety regulations for handling components of airbag system.

Necessary preliminary tasks:

- Remove rear panel
- Remove seat
- Remove guides for head restraint
- Remove inner and outer cover



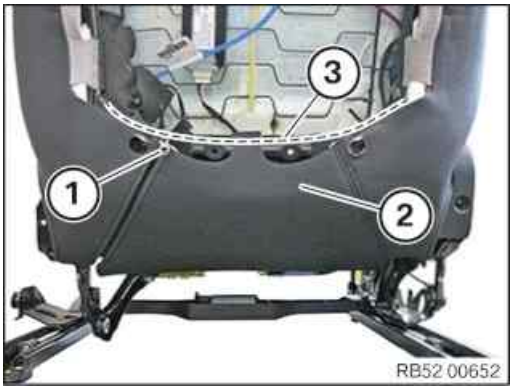
Use of the universal seat mount is recommended for carrying out expert repairs.

Removal:

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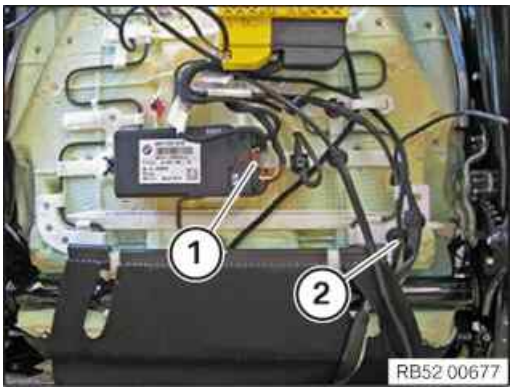


Detach tensioning straps (1) at left and right from seat mechanism.



Open zip fastener (1).

Detach seat cover (2) in area (3) from backrest frame.

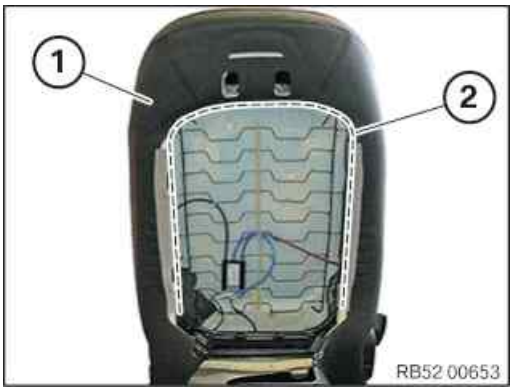


<u>On versions with seat heating:</u>

Unfasten plug connection (1) and disconnect.

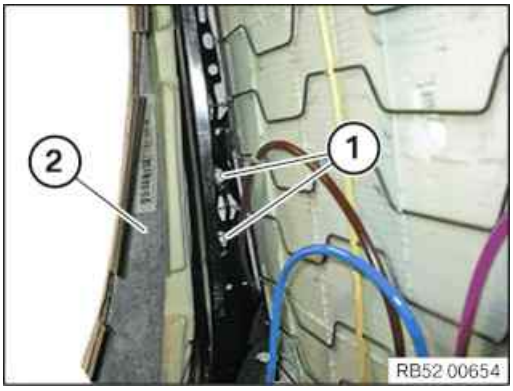
Unfasten cable strap (2).

Feed back cable.



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

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Unscrew nuts (1).

Feed side airbag downwards and out of backrest cover (2).

Remove backrest cover (2) with upholstery upwards from backrest frame.



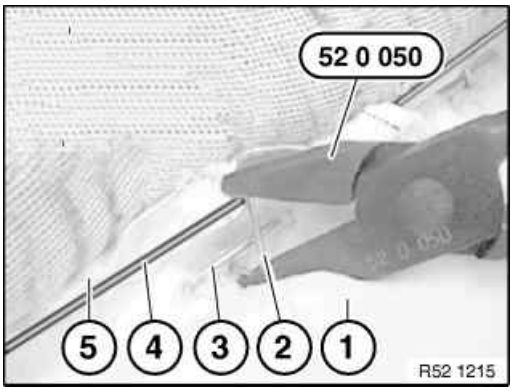
Release all clamps in marked area.

Remove seat cover from upholstery.

Attention!

Remove all remnants of clamps from seat cover and upholstery.

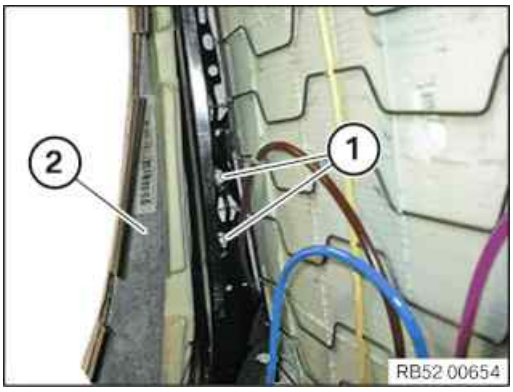
Installation:



Parts: Replace clamps (2).

Insert new clamp (2) with special tool 52 0 050 and bend closed.

1. Upholstery
2. Clamp
3. Trim wire in upholstery
4. Trim wire in seat cover
5. Backrest cover

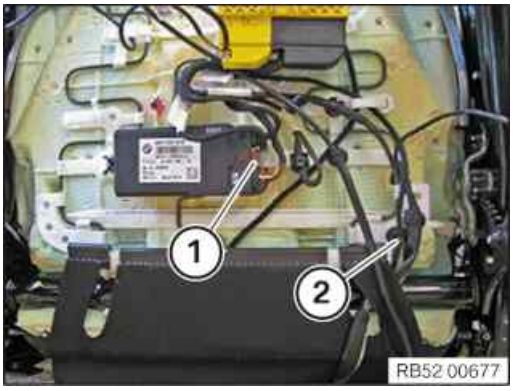


Position backrest cover (2) with upholstery from above onto backrest frame.

Feed in side airbag from below into backrest cover (2).

Tighten down nuts (1).

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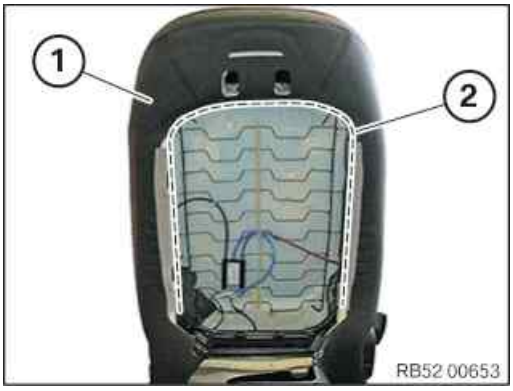


<u>On versions with seat heating:</u>

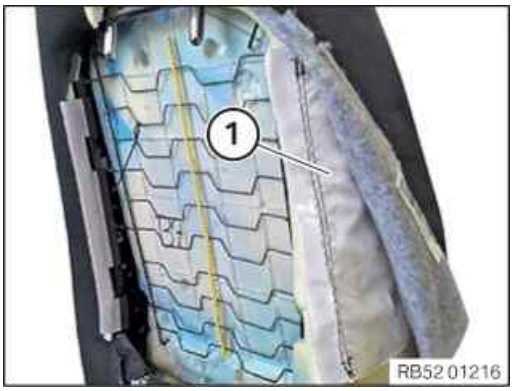
Feed in cable.

Secure cable clip (2).

Connect the connector (1).

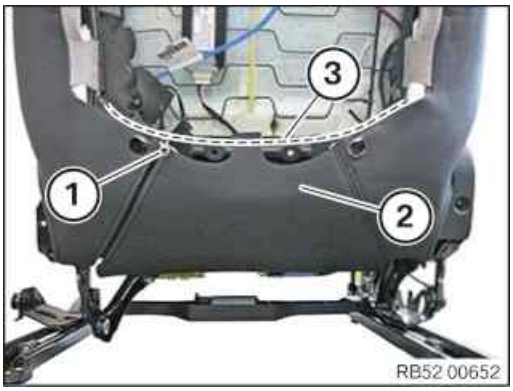


Attach seat cover (1) in area (2) to backrest frame.



Note:
As per the version, the backrest cover can have one airbag pouch (1) on both sides.

Ensure that the unused airbag pouch (1) is kept tightly and crease-free between the cushion and the backrest cover.



Attach seat cover (2) in area (3) to backrest frame.

Close zip fastener (1).

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Attach tensioning straps (1) at left and right to seat mechanism.

Required follow-up work:

- Mount inner and outer cover
- Mount guides for head restraint
- Install the seat
- Mount rear panel

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52 15 062 Replacing backrest width adjustment with valve on left or right

Necessary preliminary tasks:

- Remove the rear panel from the front seat
- Remove front seat
- Remove guide sleeves for head restraint
- Detach outer and inner cover

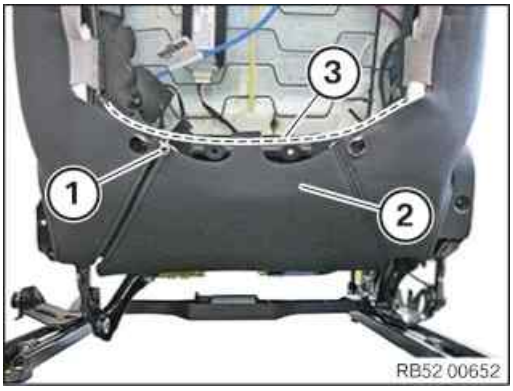
Removal:



Use of the universal seat mount is recommended for carrying out professional repairs.



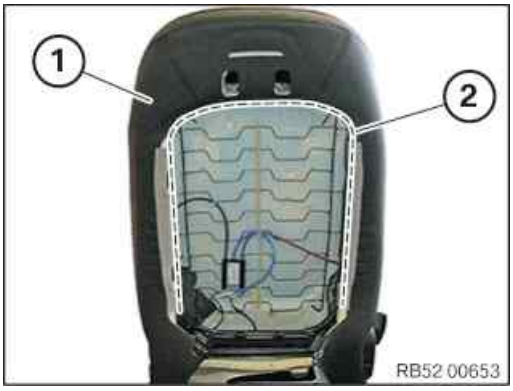
Detach tensioning straps (1) at left and right from seat mechanism.



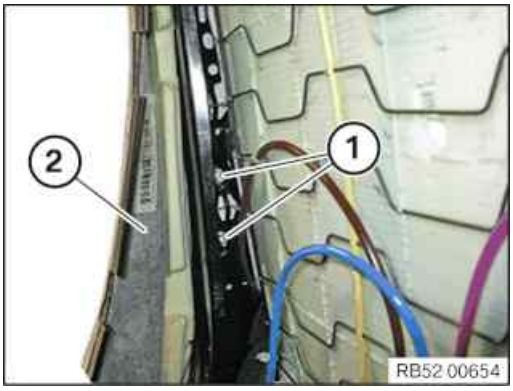
Open zip fastener (1).

Detach seat cover (2) in area (3) from backrest frame.

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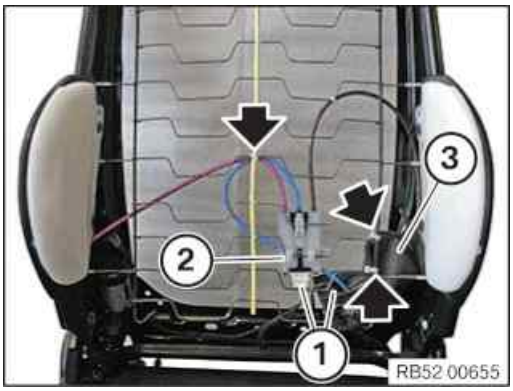
Detach seat cover (1) in area (2) from backrest frame.



Unscrew nuts (1).

Feed side airbag downwards and out of backrest cover (2).

Remove backrest cover (2) with upholstery upwards from backrest frame.

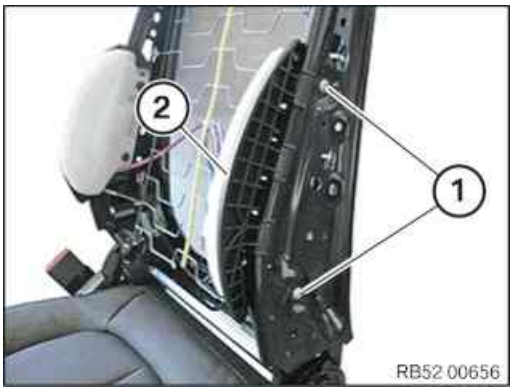


Unfasten cable strap.

Unlock plug connections (1) and disconnect.

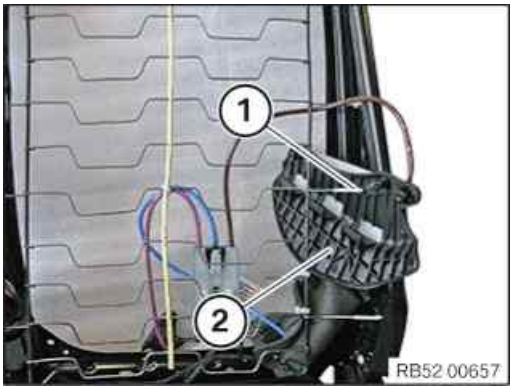
Detach valve body (2) from spring wire.

Feed out pump (3).



Remove screws (1) from left and right air cushions (2).

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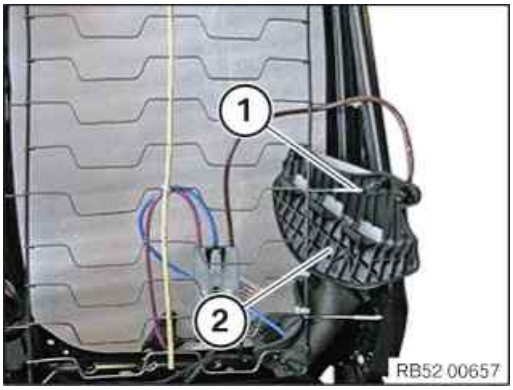


Detach spring wire (1) from backrest frame.

Feed out air cushion (2) to rear.

Note:
Carry out work on the right side in the same way as for the left side illustrated here.

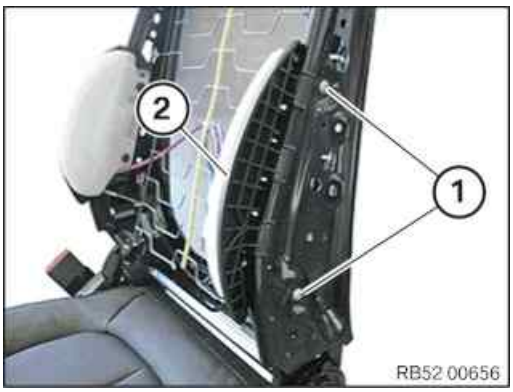
Installation:



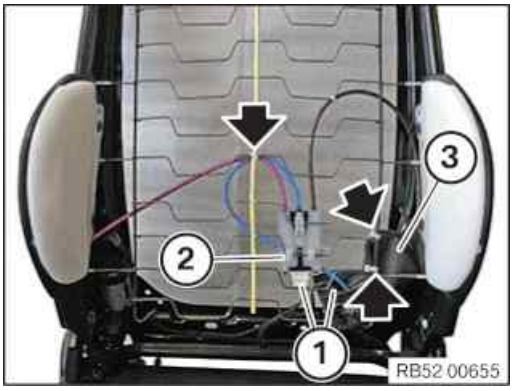
Feed in air cushion (2) from rear.

Attach spring wire (1) to backrest frame.

Note:
Carry out work on the right side in the same way as for the left side illustrated here.



Tighten screws (1) on left and right air cushions (2).



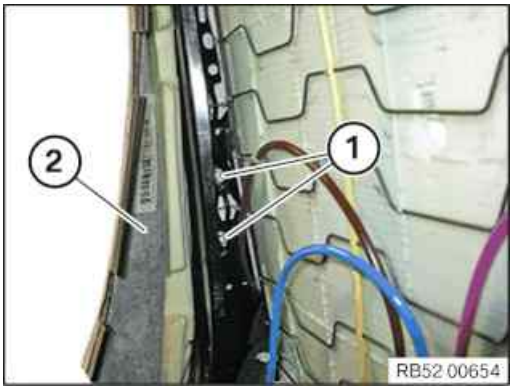
Feed in pump (3).

Attach valve body (2) to spring wire.

Connect the connector (1).

Fit cable strap.

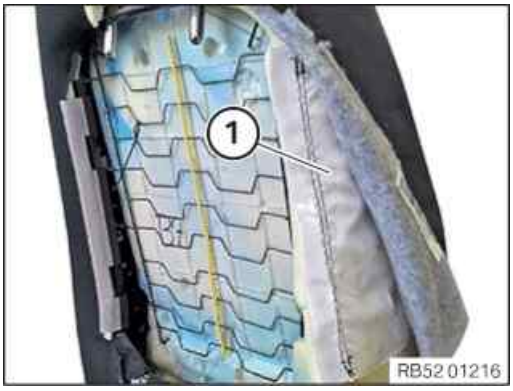
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Position backrest cover (2) with upholstery from above onto backrest frame.

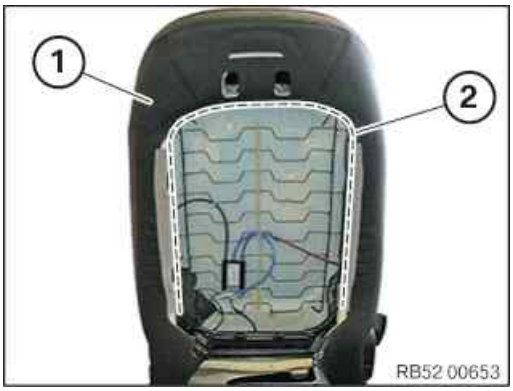
Feed in side airbag from below into backrest cover (2).

Tighten down nuts (1).

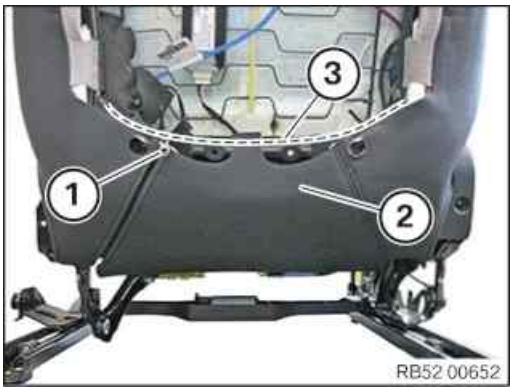


Note:
As per the version, the backrest cover can have one airbag pouch (1) on both sides.

Ensure that the unused airbag pouch (1) is kept tightly and crease-free between the cushion and the backrest cover.



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



Attach seat cover (2) in area (3) to backrest frame.

Close zip fastener (1).

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Attach tensioning straps (1) at left and right to seat mechanism.

Required follow-up work:

- Mount outer and inner cover
- Mount rear panel to front seat
- Install front seat
- Install guide sleeves for head restraint

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52 13 417 Replacing upholstery for driver's seat



Operation is described in:

- Replacing seat cover an driver's seat on left or right

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52 13 422 Replacing upholstery for driver's seat backrest



Operation is described in:

Replace backrest cover for driver's seat.

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52 13 418 Replacing upholstery for front passenger seat



Important!

US/CDN front passenger seat (with CIS mat) only:

A faulty facing may only be replaced completely with the CIS mat.

New facing is supplied with CIS mat and, if necessary, seat heating.

After installation, the CIS mat must be enabled with the diagnosis system.

Individual parts not available.



Operation is described in:

- Replacing seat cover an front passenger seat on left or right



Enabling seat occupancy detector (CIS mat):

- Connect BMW diagnosis system
- Carry out service function or test module

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52 13 423 Replacing upholstery for front passenger seat backrest



Operation is described in:

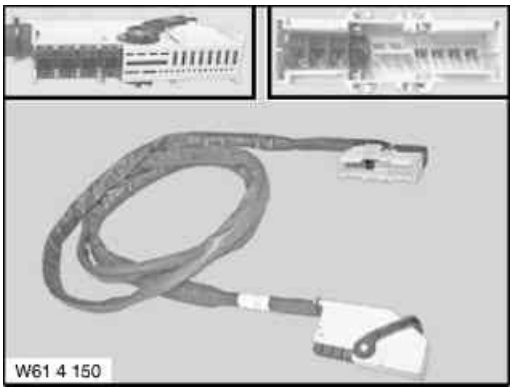
Replace backrest cover for front passenger seat.

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52 14 ... Performing function check with adapter cable (for seat repairs)

Special tools required:

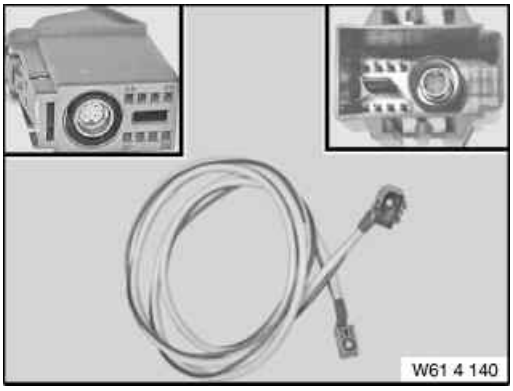
- 61 4 140
- 61 4 150



Seat function check: *Note:*
The function check on a repaired driver's or front passenger seat can be performed outside the vehicle by using adapter cable 61 4 150 .

Application:

Adapter cable is connected to vehicle wiring harness and removed seat 61 4 150 .



RSE (rear passenger compartment monitor) function check *Note:*
The function check of the RSE (rear passenger compartment monitor) on a repaired driver's or front passenger seat can be performed outside the vehicle by using adapter cable 61 4 140 .

Application:

Adapter cable is connected to vehicle wiring harness and removed seat 61 4 140 .

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52 20 ... Replace backrest remote unlocking, right

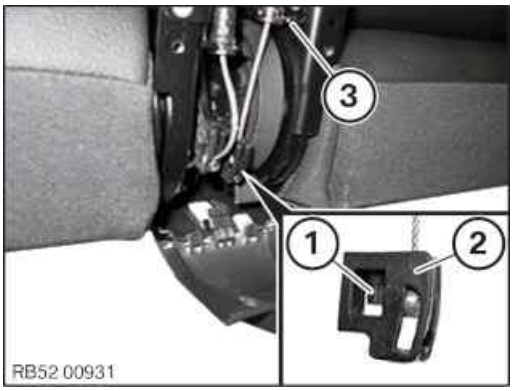
Necessary preliminary tasks:

- Remove right rear seat

Removal:



Unclip cover (1) in direction of arrow.

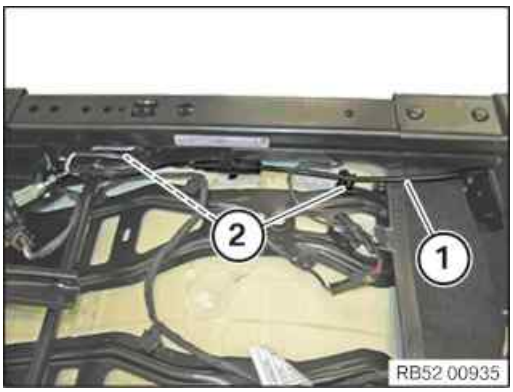


Schematic diagram is for example purposes. Some parts may differ in certain details.

Release retaining lug (1).

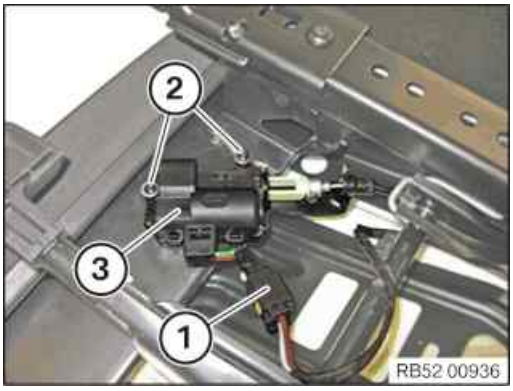
Remove Bowden cable sleeve (3) from guide.

Remove Bowden cable (2) from seat mechanism.



Release Bowden cable (1) with fastening holders (2) from seat mechanism.

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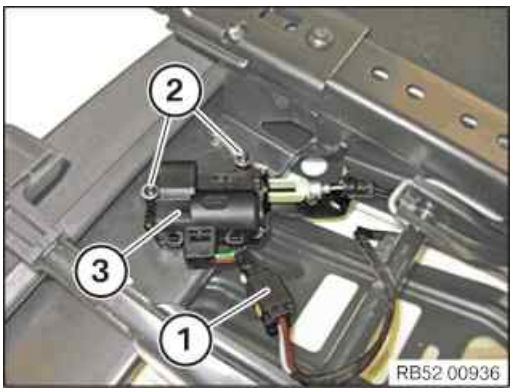


Disconnect plug connection (1).

Unfasten screws (2).

Remove backrest remote unlocking mechanism (3) and unlatch Bowden cable sleeve from guide.

Installation:

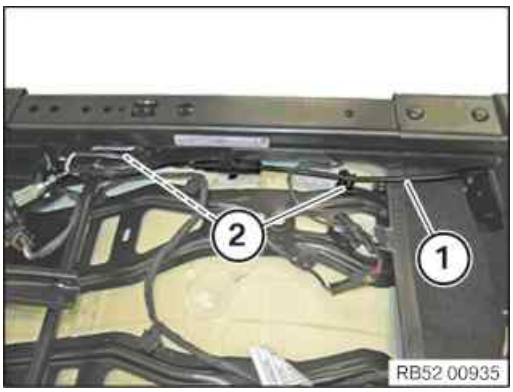


Install backrest remote unlocking mechanism (3) and latch Bowden cable sleeve into relevant guide while doing so.

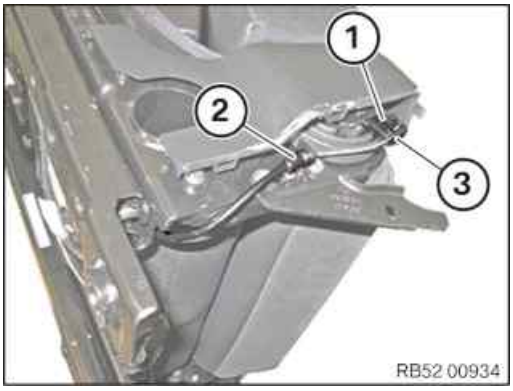
Tighten down screws (2).

Tightening torque 52 26 3AZ.

Connect plug connection (1).



Attach Bowden cable (1) with fastening holders (2) onto seat mechanism.

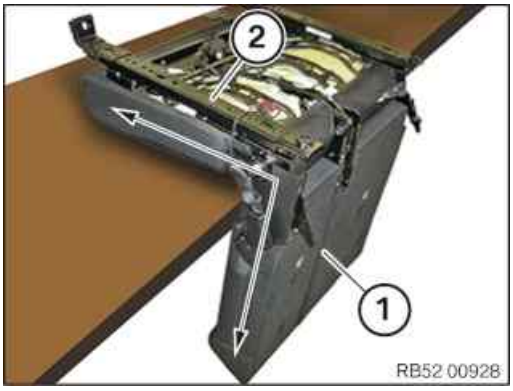


Mount Bowden cable (3) to seat mechanism.

Retaining lug (1) must latch audibly into place.

Latch Bowden cable sleeve (2) into guide.

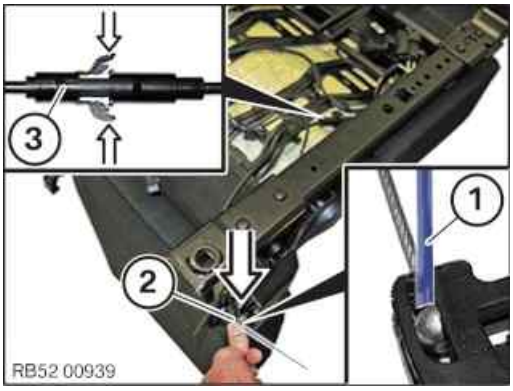
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Bowden cable setting

Seat mechanism must be moved into following basic setting:

- Set rear seat backrest (1) upright relative to seat mechanism (2)
- Rear seat backrest must latch audibly into place

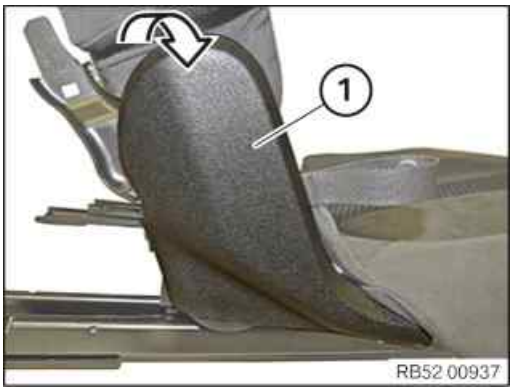


Bowden cable must be pretensioned by inserting a wire (1) (Ø 1 mm).

Keep Bowden cable pretensioned by pressing on lever (2).

Press locks on Bowden cable compensation (3) together until they latch audibly into place.

Remove wire (1) from lever (2).



Clip in cover (1) in direction of arrow.

Required follow-up work:

- Install rear seat at right

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52 20 ... Replacing left backrest remote unlocking

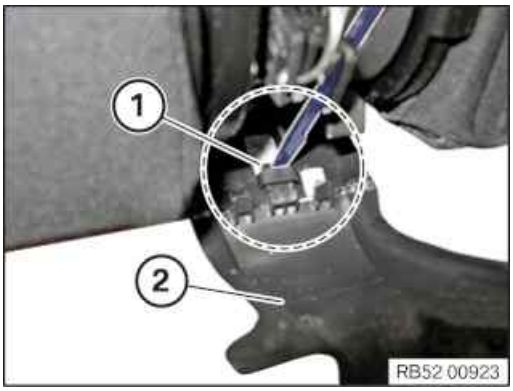
Necessary preliminary tasks:

- Remove left rear seat

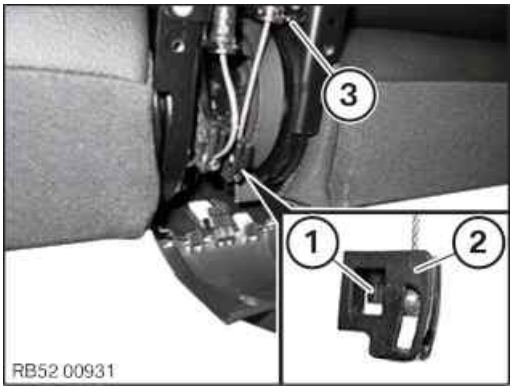
Removal:



Release screws (1).



Unlock the retaining lug (1) and remove the trim (2).



Unlock the retaining lug (1) and remove the Bowden cable with holder (2).
Remove the Bowden cable sleeve from the guide (3).

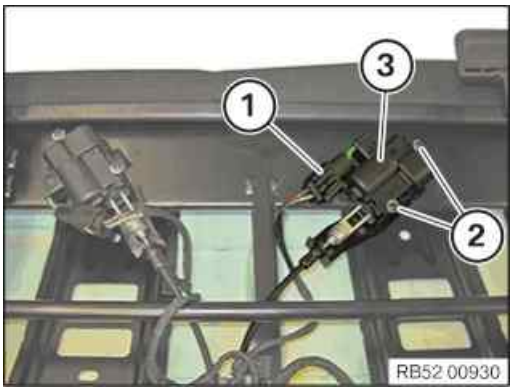
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Disconnect the cable strap (1) from the Bowden cable.



Loosen the mounting clips (1) in the marked area.

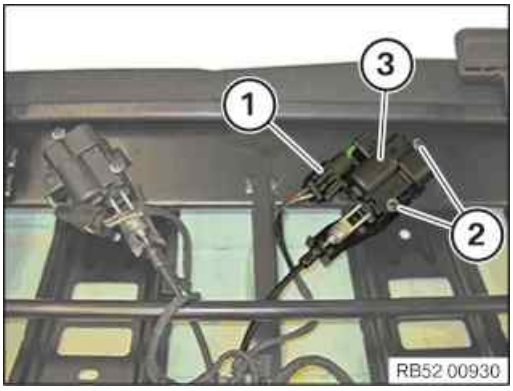


Disconnect plug connection (1).

Unfasten screws (2).

Remove backrest remote unlocking mechanism (3) and unlatch Bowden cable sleeve from guide.

Installation:



Install backrest remote unlocking mechanism (3) and latch Bowden cable sleeve into relevant guide while doing so.

Tighten down screws (2).

Tightening torque 52 26 3AZ.

Connect plug connection (1).

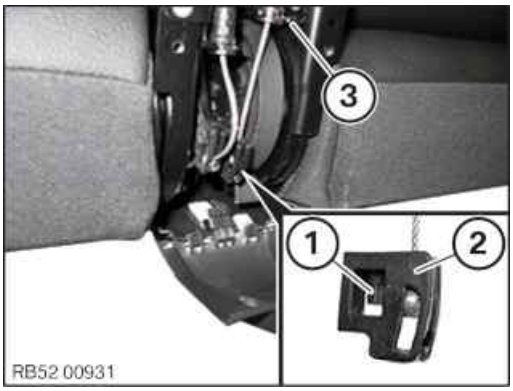
cardiagn.com



Secure the mounting clips (1) in the marked area.

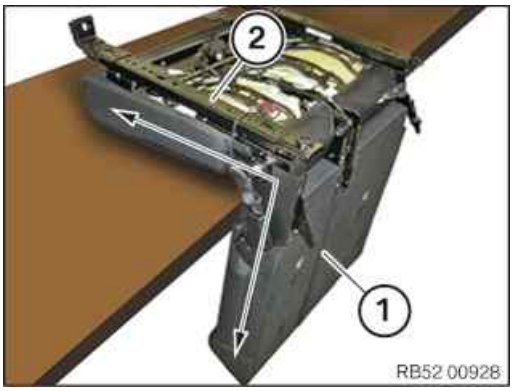


Secure the Bowden cable with the cable strap (1).



Engage the Bowden cable sleeve in the guide (3).

Install the Bowden cable including holder (2). Retaining lug (1) must latch audibly into place.

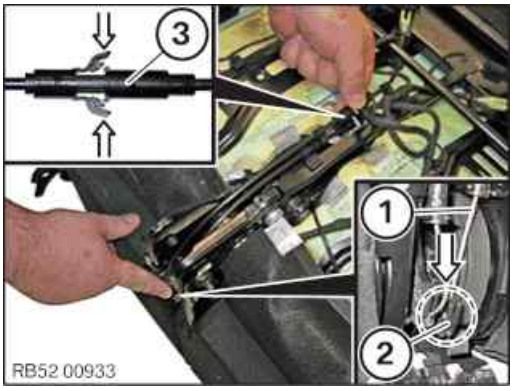


<u>Bowden cable setting</u>

Seat mechanism must be moved into following basic setting:

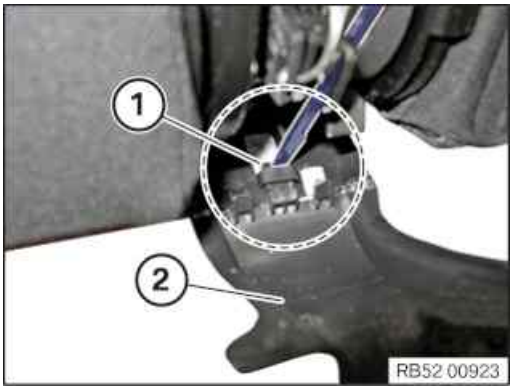
- Set rear seat backrest (1) upright relative to seat mechanism (2)
- Rear seat backrest must latch audibly into place

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Continue to apply tension to the Bowden cable (1) by pressing on the lever (2).

Press locks on Bowden cable compensation (3) together until they latch audibly into place.



Engage the retaining lug (1) and install the trim (2).



Tighten down screws (1).

Required follow-up work:

- Install the left rear seat

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52 20 ... Replacing the middle backrest remote unlocking

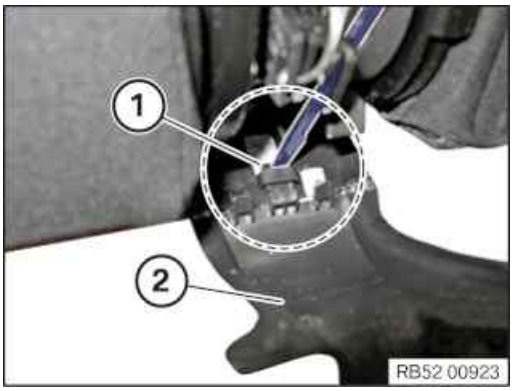
Necessary preliminary tasks:

- Remove left rear seat

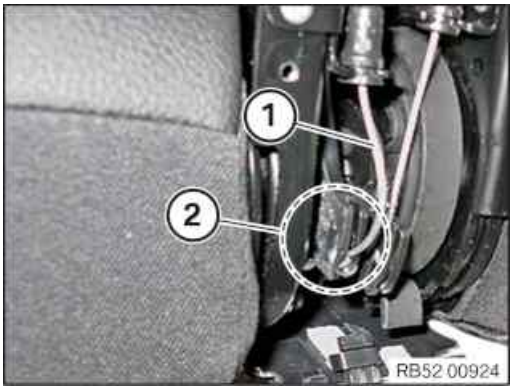
Removal:



Release screws (1).

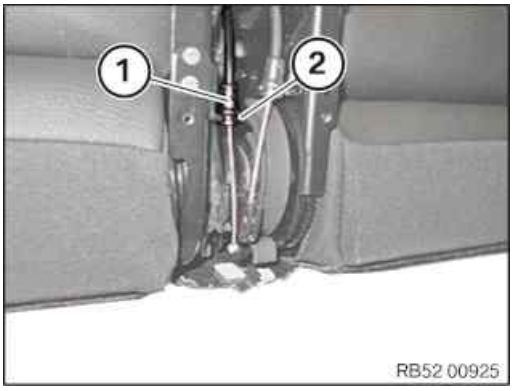


Unlock the retaining lug (1) and remove the trim (2).



Carefully lever out Bowden cable (1) in the marked area (2).

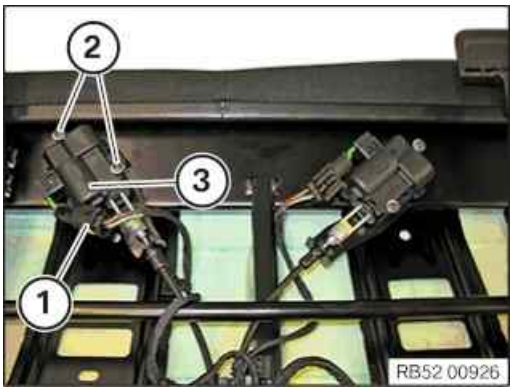
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Remove Bowden cable sleeve (1) from guide (2).



Disconnect the cable strap (1) from the Bowden cable.

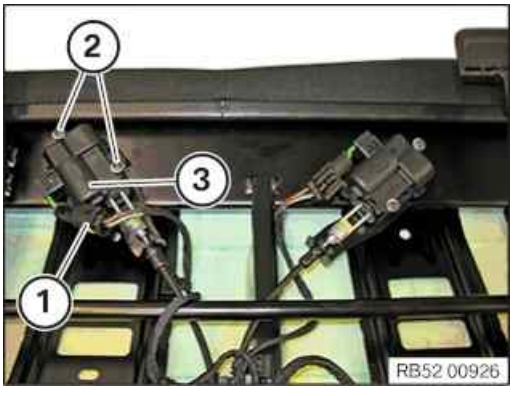


Disconnect plug connection (1).

Unfasten screws (2).

Remove backrest release (3) and disengage the Bowden cable sleeve from the guide.

Installation:



Install backrest release (3) and engage the Bowden cable sleeve into the corresponding guide.

Tighten down screws (2).

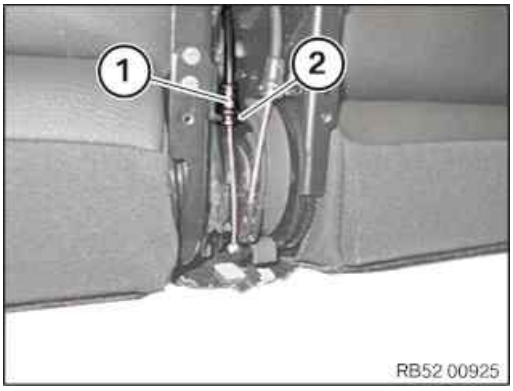
Tightening torque 52 26 3AZ.

Connect plug connection (1).

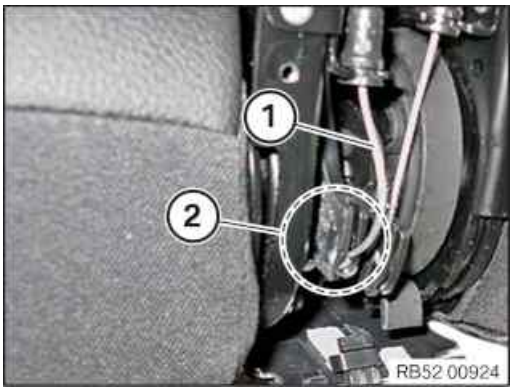
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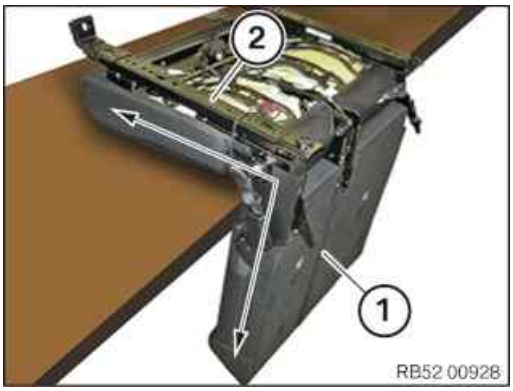
Fix Bowden cable at cable strap (1).



Engage Bowden cable sleeve (1) in guide (2).



Carefully engage Bowden cable (1) in the marked area (2).

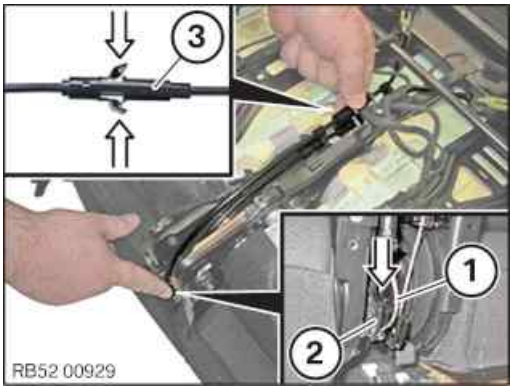


<u>Bowden cable setting</u>

Seat mechanism must be moved into following basic setting:

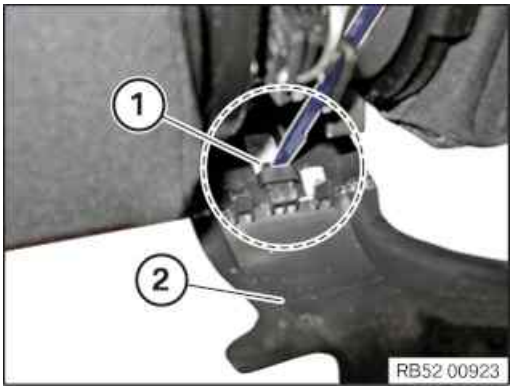
- Set rear seat backrest (1) upright relative to seat mechanism (2)
- Rear seat backrest must latch audibly into place

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Continue to apply tension to the Bowden cable (1) by pressing on the lever (2).

Press the locks on the Bowden compensation (3) until it engages audibly.



Engage the retaining lug (1) and install the trim (2).



Tighten down screws (1).

Required follow-up work:

- Install the left rear seat

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52 26 155 Installing and removing/replacing the rear seat cover

Special tools required:

- 52 0 050

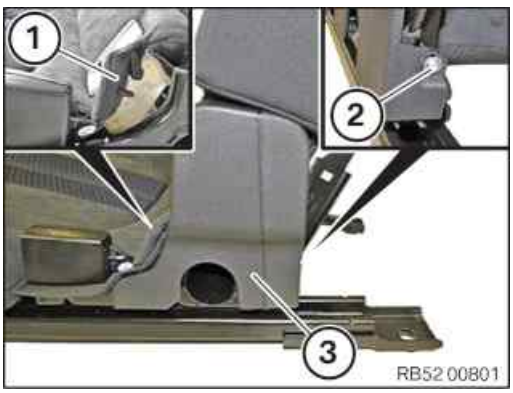
Necessary preliminary tasks:

- Remove right rear seat

Removal:



Unclip ISOFIX cover cap (1).

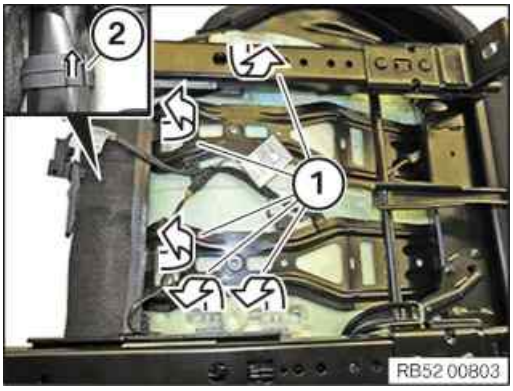


Unclip the clip (1).
Release screw (2).
Remove the trim (3).



Unclip the trim (1) in the direction of arrow.

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Detach clamps (1).
Unclip the cramp (2).



Unclip seat cover all around.
Remove seat fabric.



<u>Detaching cover and upholstery:</u>

- Release all clamps on trim wires
- Remove seat cover from upholstery
- Remove remaining clamps from cover and upholstery

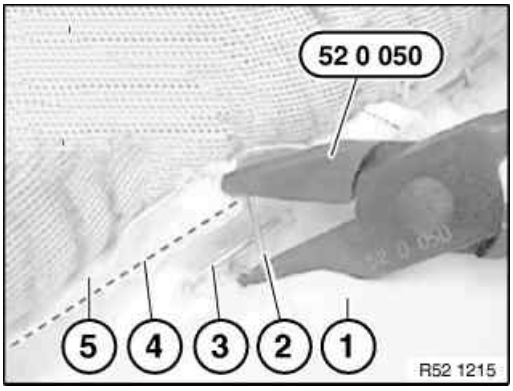


<u>Replacement only:</u>

- Push trim wires into new seat cover
- If necessary, cut in mounting for trim wires of new cover

Installation:

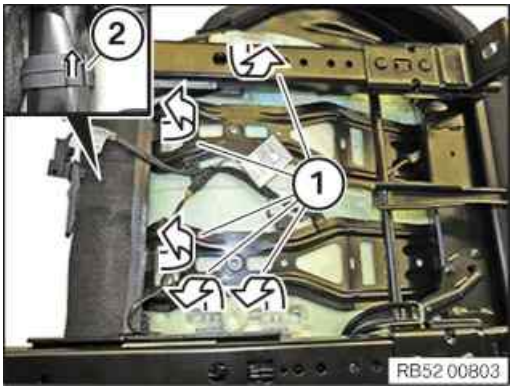
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Installation note:
Insert new clamps with special tool 52 0 050 .

1. Upholstery
2. Clamp
3. Trim wire in upholstery
4. Trim wire in seat cover
5. Seat cover

Note:
Position the cover and the upholstery correctly.

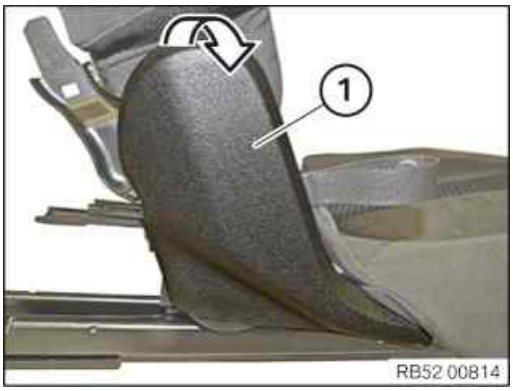


Attach the clamps (1).

Lock the cramp (2).



Tighten and attach seat cover.



Clip in trim (1) in direction of arrow.

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Clip in ISOFIX cover cap (1).*Note:*
Pull cover straps through foam part into Isofix openings.

Make sure ISOFIX cover caps (1) are correctly engaged.

Required follow-up work:

- Install rear seat at right

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52 26 038 Remove/install/replace seat mechanism for left rear seat



Necessary preliminary tasks:

- Remove left rear seat



Remount the following parts:

- Seat cover for left rear seat
- Centre backrest cover
- Left backrest cover
- Lower strap, centre
- Lower strap, left



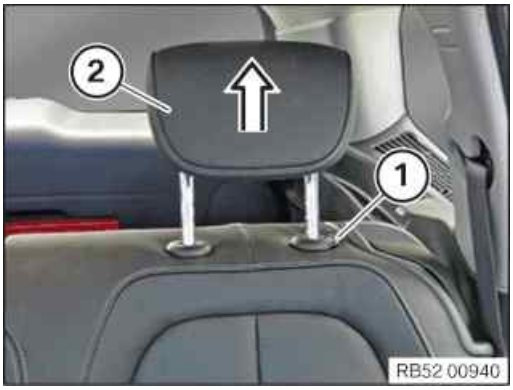
Required follow-up work:

- Install left rear seat

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52 26 390 Removing and installing or replacing left or right rear head restraint

Removal:



Press lock (1) and pull head restraint (2) upwards and out.

Installation:



Guide head restraint (1) downwards into guides and lock audibly.

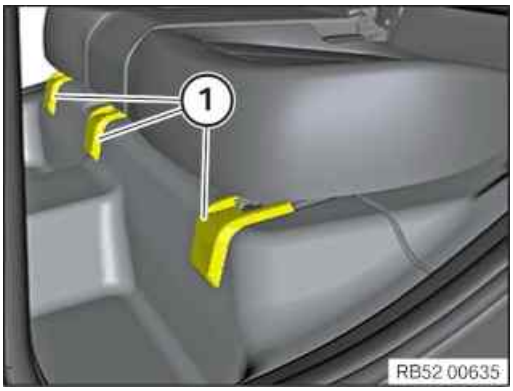
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52 26 002 Removing and installing seat bench

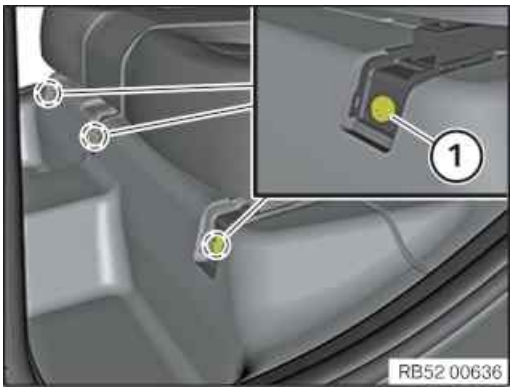
Necessary preliminary work:

- Remove luggage compartment floor trim panel

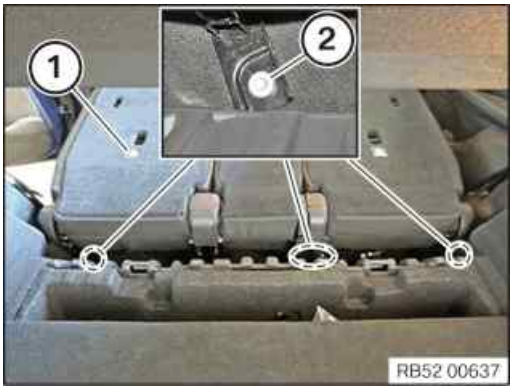
Removal:



Unclip cover (1) towards the front.



Release screws (1).



Fold down rear seat backrest (1) on left and right.

Unfasten screws (2).

Unlock plug connection on rear seat and disconnect.

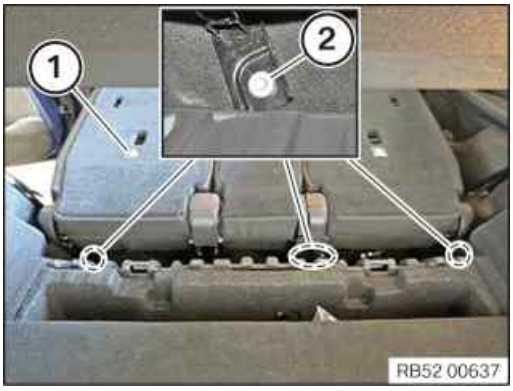
Attention!

Cover entrance with protective covers (risk of damage)

Carefully lift out rear seat.

Installation:

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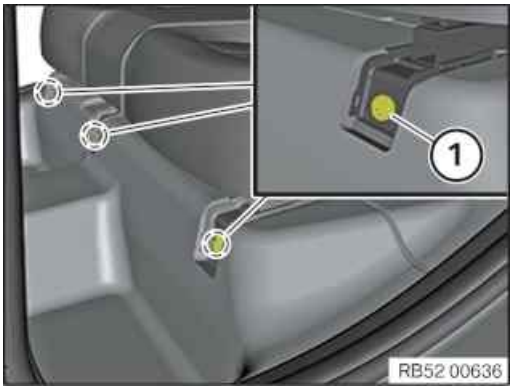
Attention!

Cover entrance with protective covers (risk of damage)

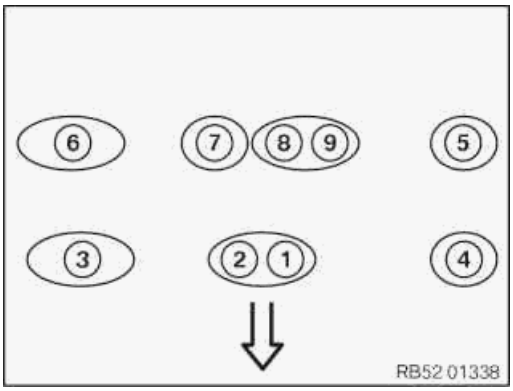
Carefully insert rear seat (1) and position.

If necessary, connect the connector to rear seat.

Screw-in the screws (2) by several turns.



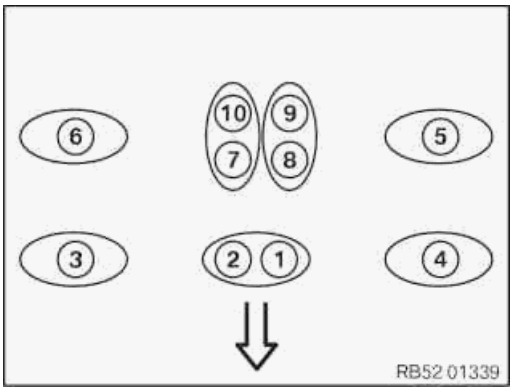
Screw-in the screws (1) by several turns.



only: F45/F48/F39/F60

Tighten the screws in sequence 1-9.

Tightening torque 52 26 1AZ.

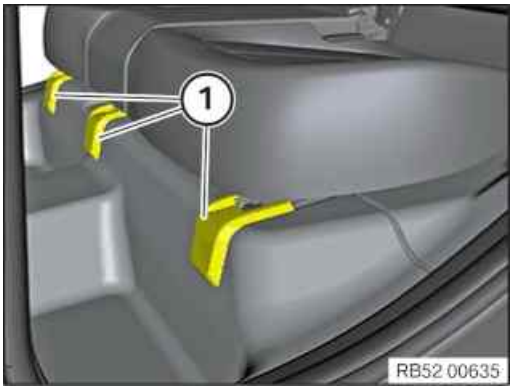


Only for:F46

Tighten the screws in sequence 1-10.

Tightening torque 52 26 1AZ.

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Clip in cover (1).

Required follow-up work:

- Install luggage compartment floor trim panel

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52 26 ... Removing and installing/replacing all guide sleeves for rear head restraints

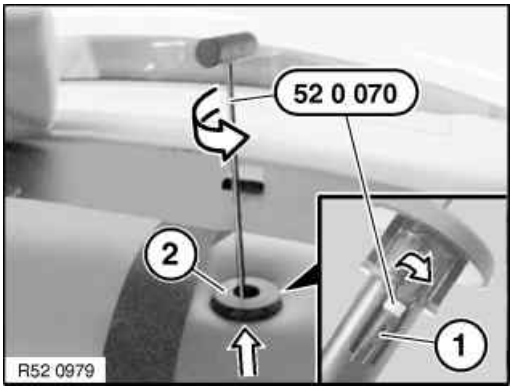
Special tools required:

- 52 0 070

Necessary preliminary tasks:

- Remove head restraints from rear seat

Removal:



Insert special tool 52 0 070 into guide hole of sleeve (2) up to upper area of retaining lug.

Feed release tongue of special tool into rear gap on retaining lug (1).

Turn tool to release sleeve (2) and pull out by lifting upwards.

Installation:



Install guide sleeves as follows:

1 Guide sleeves with lock

2 Guide sleeves without lock

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Required follow-up work:

- Install head restraints in rear seat

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52 26 000 Removing and installing/replacing left or right rear seat

Removal procedure for the right rear seat is analogue to that for the left rear seat as shown here.

Removal:



Unclip covers (1) towards front.

Release screws underneath.



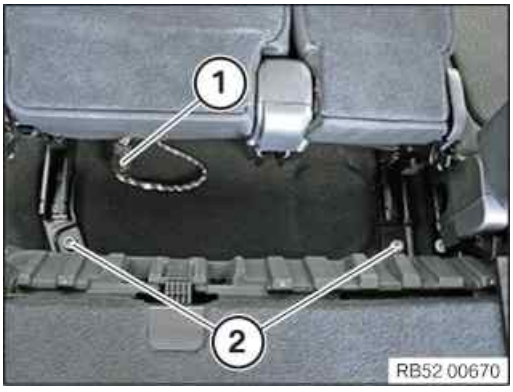
Fold the backrest towards the front.

Move rear seat assembly forward.

Equipment specification with screen trim:

Press latch mechanism (1) inward and detach holder (2) upwards.

Remove screen trim (3).



Unfasten plug connection (1) and disconnect.

Unfasten screws (2).

Attention!

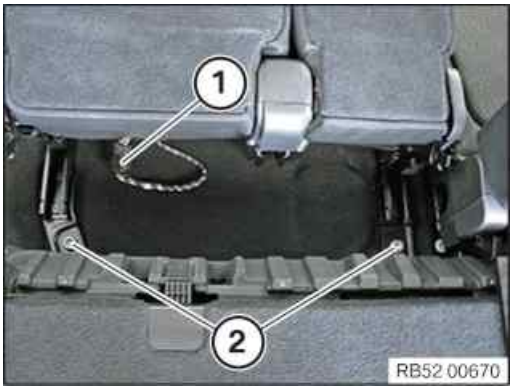
Risk of damage!

Protect side sill and door sill area with protective covers.

Remove rear seat.

Installation:

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Attention!

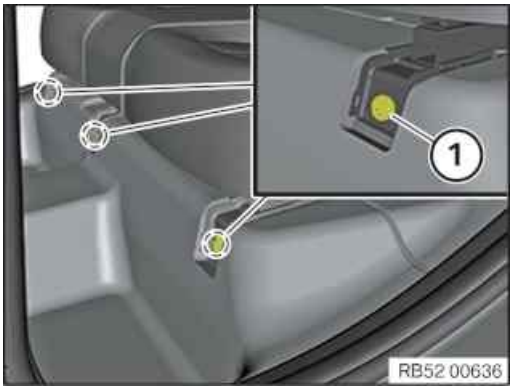
Risk of damage!

Protect side sill and door sill area with protective covers.

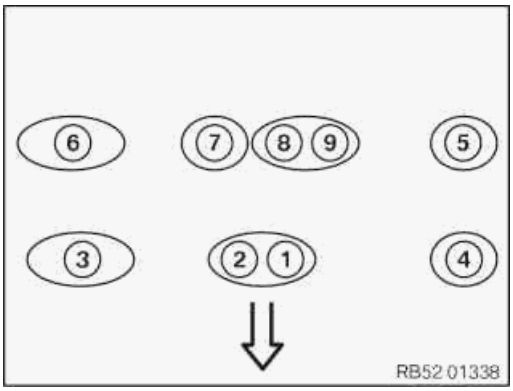
Install rear seat.

Screw in the screws (2) by a few turns.

Connect the connector (1).



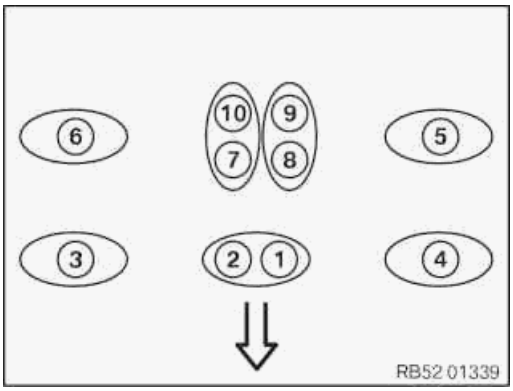
Screw in the screws (1) by a few turns.



only: F45/F48/F39/F60

Tighten the screws in a sequence from 1-9.

Tightening torque 52 26 1AZ.



only:F46

Tighten the screws in a sequence from 1-10.

Tightening torque 52 26 1AZ.

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Equipment specification with screen trim:

Clip in cover (3) from above with holder (2).

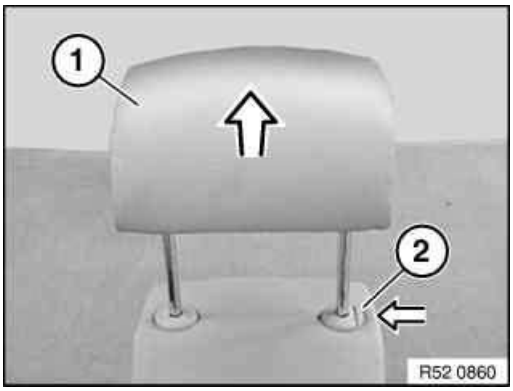
Note:
Ensure catches (1) are correctly seated.



Clip in the covers (1).

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52 26 388 Removing and installing/replacing rear middle head restraint



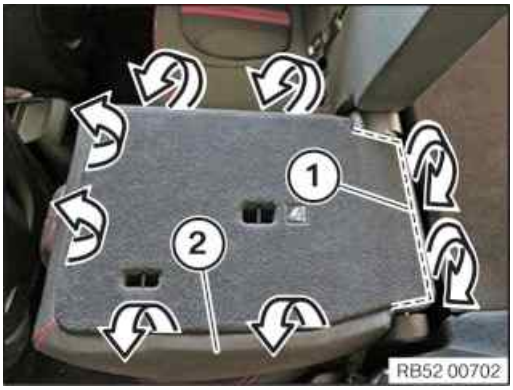
If applicable, fold back head restraint (1) and move upwards to max. extent.

Press lock (2) and pull upwards and out head restraint (1).

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52 26 199 Removing and installing/replacing rear panel on left (right) rear seat backrest

Removal:

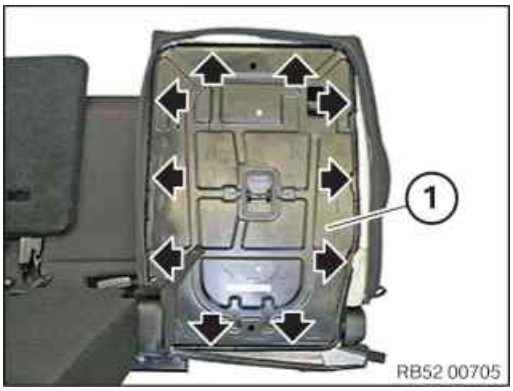


Carefully lever out the rear panel in the marked area (1) using a suitable tool.
Lever out backrest cover (2) all round from the backrest frame.



Remove rear panel (1) from backrest.

Installation:

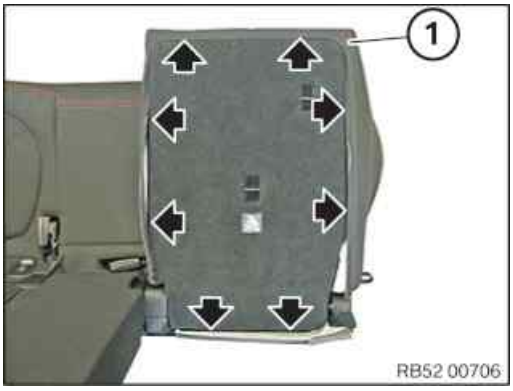


Note:
Rear panel must noticeably engage with the backrest frame (1).

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Install rear panel (1) in backrest.



Press the welt of the backrest cover (1) into the frame starting from the top.

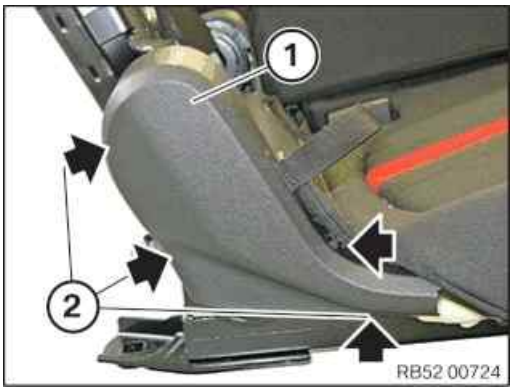
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52 26 722 Removing and installing/replacing rear seat backrest (frame) on the right (left)

Necessary preliminary tasks:

- Remove rear seat
- Remove backrest cover including upholstery

Removal:

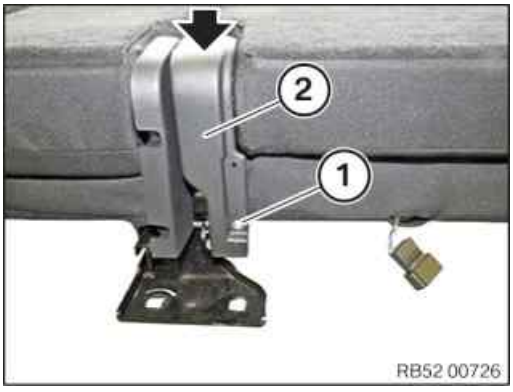


Note:
Do not damage retaining lugs.

Unclip cover (1) from retaining lugs (2) and remove.



Detach loop (1).

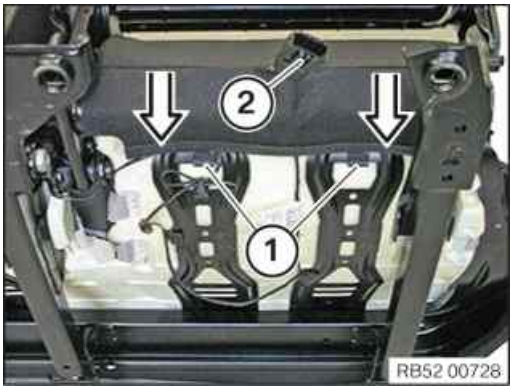


Loosen screw (1) and unclip rear cover (2) at mark.

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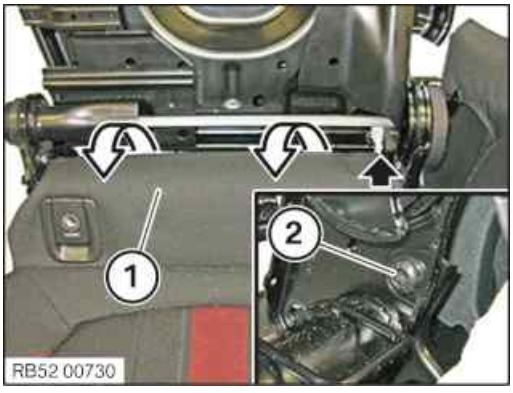
Unclip front cover (1) at mark and remove.



Unclip backrest cover at mark (1) in the direction of the arrow.
Feed out connector (2).

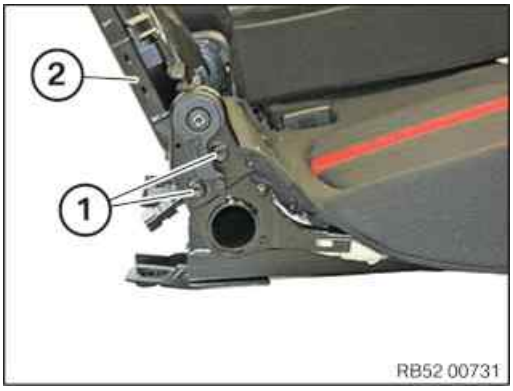


Release screw (1).



Pull seat cover (1) forwards in the direction of the arrow.
Release screw (2).

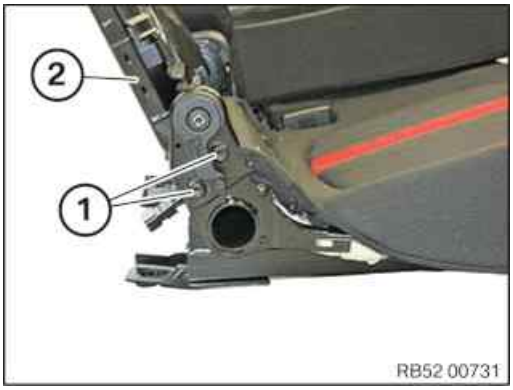
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Release screws (1).

Remove backrest frame (2).

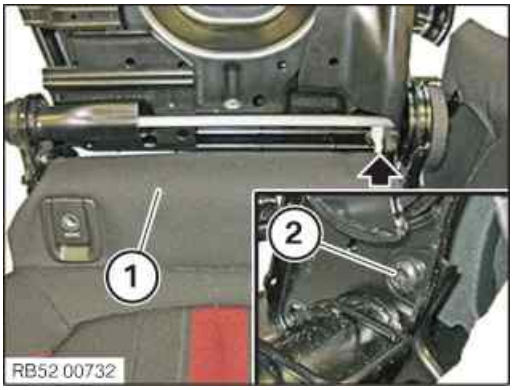
Installation:



Position backrest frame (2).

Tighten down screws (1).

Tightening torques 52 26 2AZ.



Tighten screw (2).

Tightening torques 52 26 2AZ.

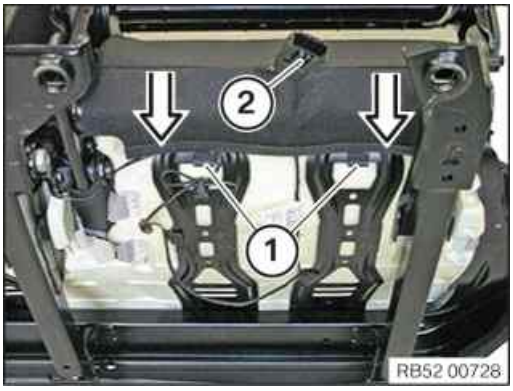
Feed in seat cover (1) towards rear.



Tighten screw (1).

Tightening torques 52 26 2AZ.

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Feed in connector (2).

Clip in backrest cover at mark (1) in the direction of the arrow.

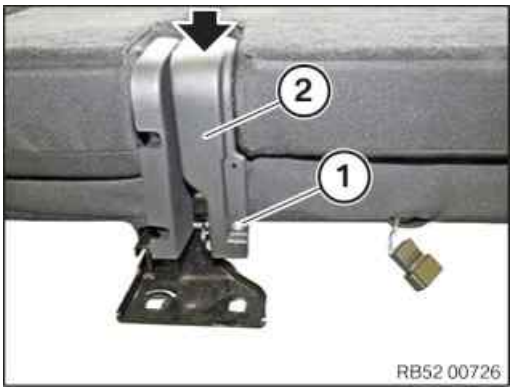


Note:
Correctly feed in cover into the associated guide.

Refer to the marks.



Feed in front cover (1) and clip in at the mark.

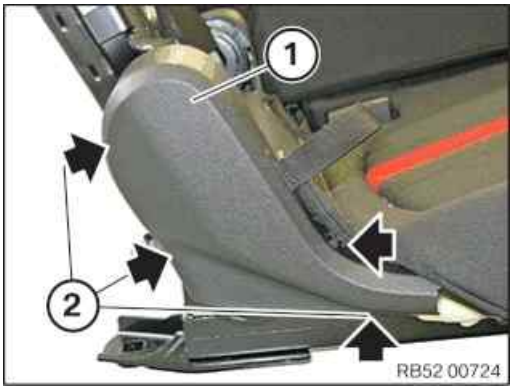


Clip in the cover (2) at the mark and tighten the screw (1).

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Attach loop (1).



Note:
Check retaining lugs for damage.

Clip cover (1) into retaining lugs (2).

Required follow-up work:

- Install backrest cover
- Install rear seat

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52 26 153 Removing and installing/replacing seat cover for left rear seat

Special tools required:

- 52 0 050

Necessary preliminary tasks:

- Remove left rear seat

Removal:



Unclip ISOFIX cover cap (1).

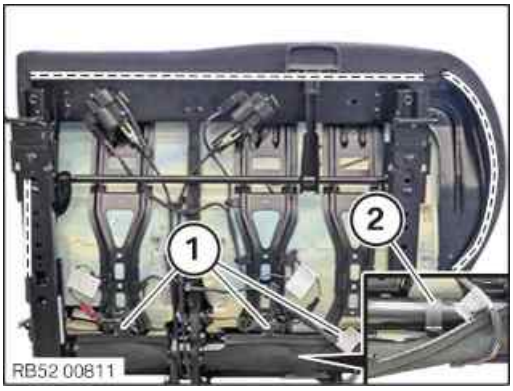


Unclip clips (1).



Unclip clips (1).

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Lever out welt in marked area using a suitable tool.
Release clips (1) and remove bracket (2).
Remove seat fabric.



Loosen clamps (1).



<u>Detaching cover and upholstery:</u>

- Release all clamps on trim wires
- Remove seat cover from upholstery
- Remove remaining clamps from cover and upholstery

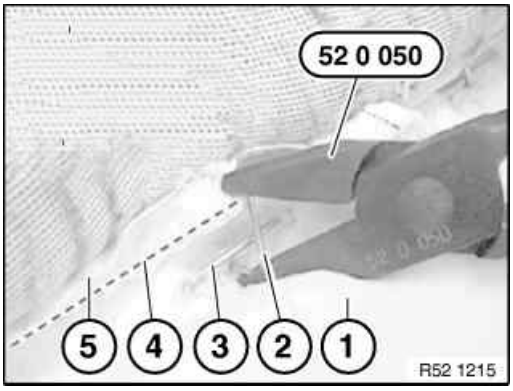


<u>Replacement only:</u>

- Push trim wires into new seat cover
- If necessary, cut in mounting for trim wires of new cover

Installation:

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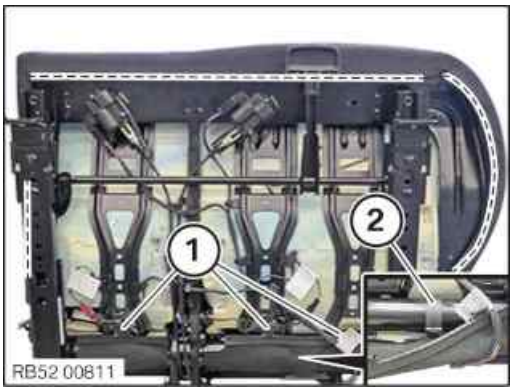


Note:
Insert new clamps with special tool 52 0 050 .

1. Upholstery
2. Clamp
3. Trim wire in upholstery
4. Trim wire in seat cover
5. Seat cover

Note:
Position the cover and the upholstery correctly.

Guide seat cover over seat frame.



Attach welt in marked area.

Secure clamps (1) and attach bracket (2) to seat frame.



Note:
Take care that the clamps are available at the marked place and are not damaged.

Clamps must snap into place perceptively.



Clip in ISOFIX cover cap (1).*Note:*
Pull cover straps through foam part into Isofix openings.

Make sure ISOFIX cover caps (1) are correctly engaged.

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Required follow-up work:

- Install left rear seat

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52 26 039 Removing and installing/replacing seat mechanism for right rear seat

Necessary preliminary tasks:

- Remove right rear seat

Remount the following parts:

- Seat cover for right rear seat
- Right backrest cover
- Lower strap, right

Required follow-up work:

- Installing right rear seat

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52 26 202 Removing and installing/replacing the rear panel on the rear seat backrest in the centre

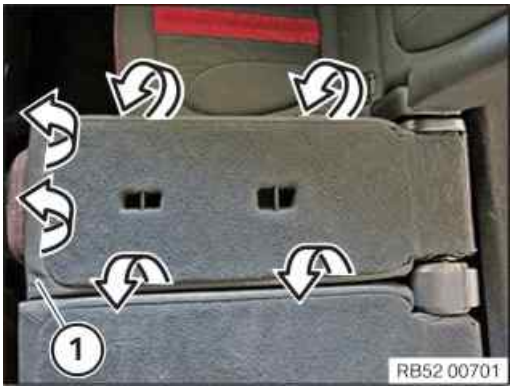
Removal:



Lever out the rear panel (1) in the marked area using a suitable tool.



Loosen Velcro fastener (1) and lever out backrest cover in the direction of the arrow.



Lever out backrest cover (1) all around the backrest frame with a suitable tool.

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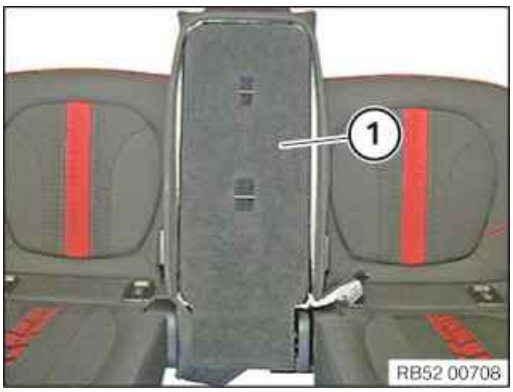


Remove rear panel (1) from backrest.

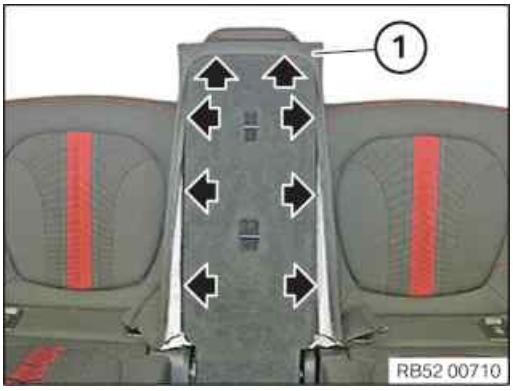
Installation:



Note:
Rear panel must noticeably engage with the backrest frame (1).



Install rear panel (1) in backrest.

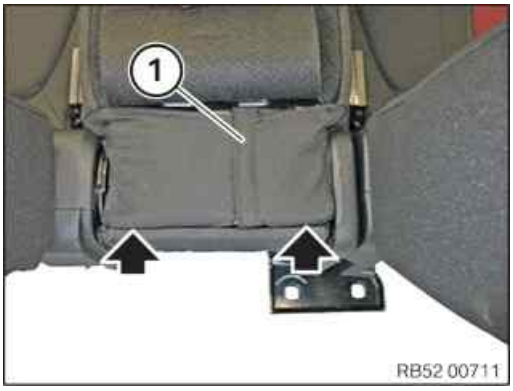


Press the welt of the backrest cover (1) into the frame starting from the top.

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Attach backrest cover (1) in the direction of the arrow.



Position backrest cover and close Velcro fastener (1).



Press the welt of the backrest cover (1) into the frame in the marked area.

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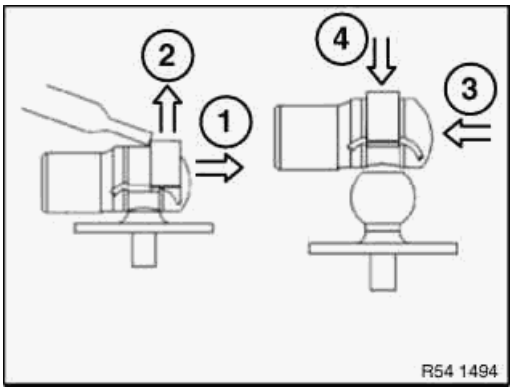
51 23 ... Removing/installing ball sockets with clip

Warning!

Danger of injury! When installed, the gas pressurised shock absorber is under preload. Minimise preload as far as possible before removing.

Important!

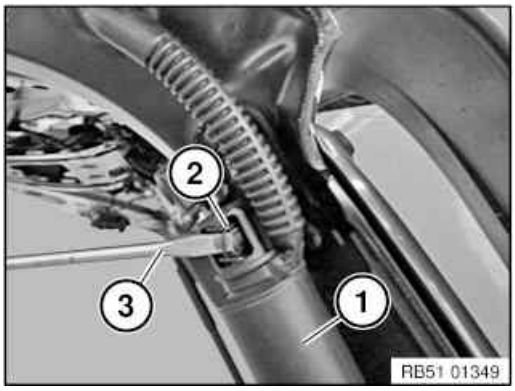
Never lift off ball socket with engaged clamp.



Version A:

1. Push on clamp in direction of groove with screwdriver
2. Lift off ball socket from ball pin
3. Slide clamp back
4. Fit ball socket on ball stud and snap into place with force

Installation note:
Pack grease into two opposite positions in socket. The grease spreads after installation on the ball pin all round in the ball socket.



Version B:

Important!

Risk of damage!

If you are not careful, retaining spring (2) may be bent to such an extent that the entire drive spindle will have to be replaced.

Press drive spindle (1) against ball pin in order to relieve strain on retaining spring (2) at ball pin.

Pull out retaining spring (2) approx. 2-3 mm with screwdriver (3).

Pull off spindle foot.

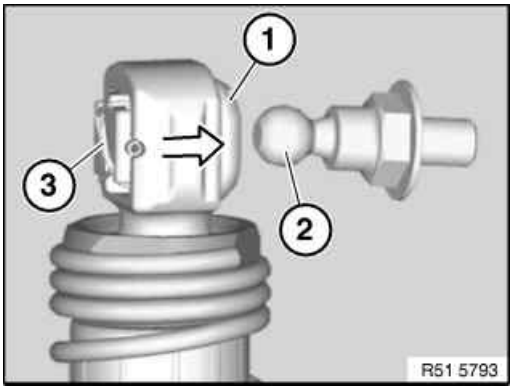
Warning!

Observe warning notices on the damper.

Electrical spindle drive for tailgate is under mechanical spring load!

The component must be secured against falling down.

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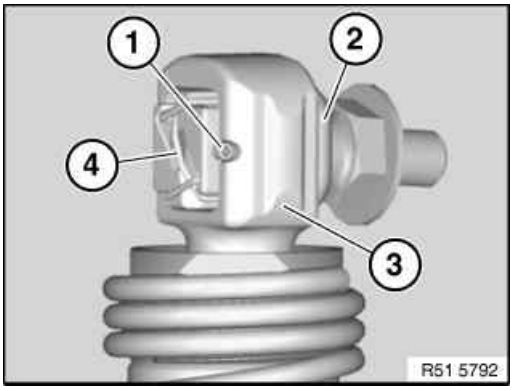


Attention!

Risk of damage!

Do not press on spindle drive at an angle or twisted.

Installation note:
Press ball socket (1) onto ball pin (2) until retaining spring (3) engages correctly (clicking sound).



Important!

If retaining spring (4) is damaged!

Release pin (1).

Remove spindle drive (3).

Remove ball socket (2).

Remove retaining spring (4) and replace if necessary.

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52 26 412 Replace backrest cover for rear seat, right (left)

Special tools required:

- 52 0 050

Necessary preliminary tasks:

- Remove head restraint
- Remove guide sleeves
- Removing rear panel on rear seat backrest

Removal:



Release clip (1) on rubber band.



Put on backrest cover (1) and remove forwards in bottom area (2).

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Including backrest cover (1). Remove upholstery (2) upwards.



Detaching cover and upholstery:

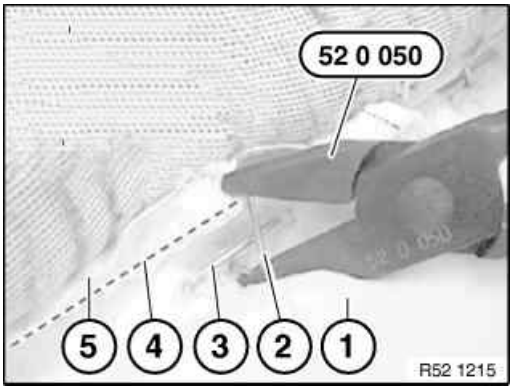
- Release all clamps on trim wires.
- Remove cover from upholstery
- Remove remaining clamps from cover and upholstery



Replacing cover:

- Remove all trim wires from cover
- If necessary, cut pockets in new cover for trim wires
- Push trim wires into pockets of seat cover

Installation:



Installation note:
Insert new clamp (2) with special tool 52 0 050 and bend closed.

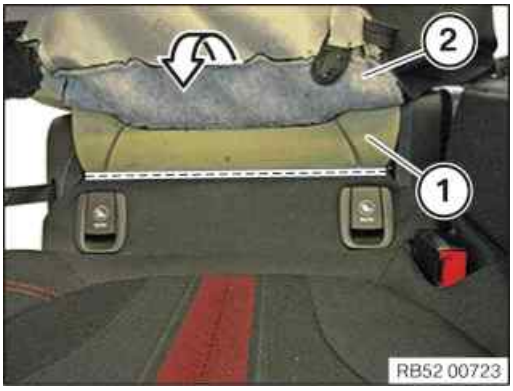
1. Upholstery
2. Clamp
3. Trim wire in upholstery
4. Trim wire in backrest cover
5. Backrest cover

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Note:
Upholstery (1) must lie evenly on the marked spot on the backrest frame.

Put on upholstery (1) including seat cover (2) from the top in direction of arrow.



Position upholstery (1) at the marked spot.

Feed in backrest cover (2) in bottom area backwards in direction of arrow.

Required follow-up work:

- Install rear panel on rear seat backrest
- Install guide sleeves
- Install head restraint

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52 20 ... Replace backrest remote unlocking, right

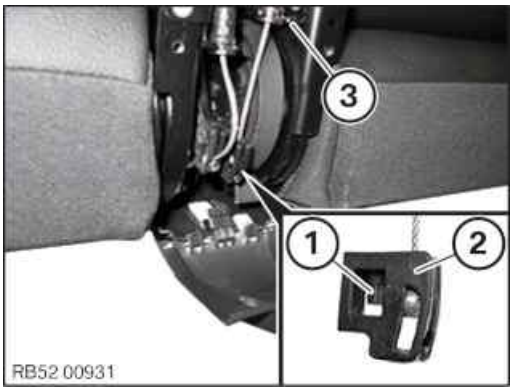
Necessary preliminary tasks:

- Remove right rear seat

Removal:



Unclip cover (1) in direction of arrow.

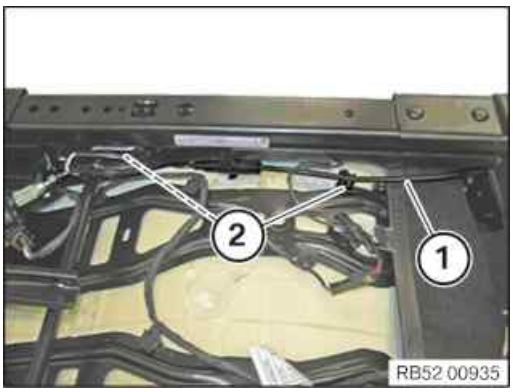


Schematic diagram is for example purposes. Some parts may differ in certain details.

Release retaining lug (1).

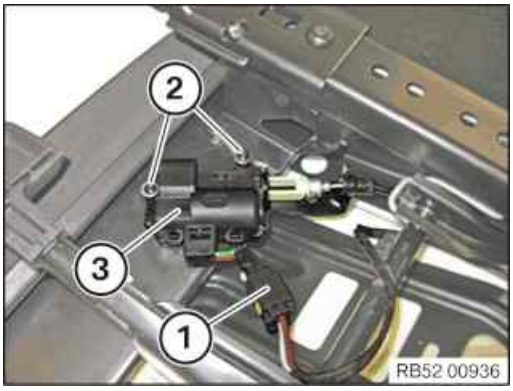
Remove Bowden cable sleeve (3) from guide.

Remove Bowden cable (2) from seat mechanism.



Release Bowden cable (1) with fastening holders (2) from seat mechanism.

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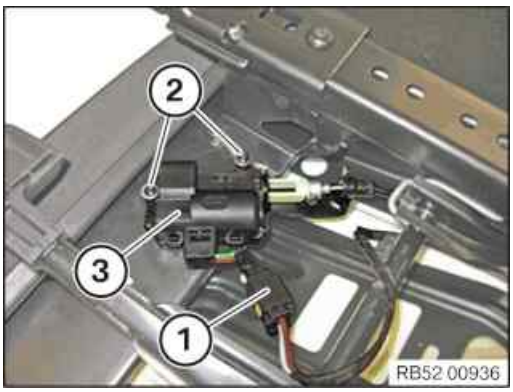


Disconnect plug connection (1).

Unfasten screws (2).

Remove backrest remote unlocking mechanism (3) and unlatch Bowden cable sleeve from guide.

Installation:

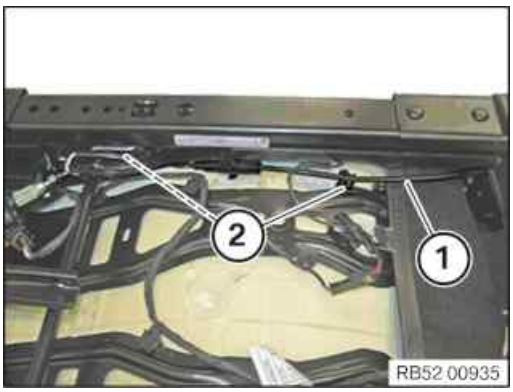


Install backrest remote unlocking mechanism (3) and latch Bowden cable sleeve into relevant guide while doing so.

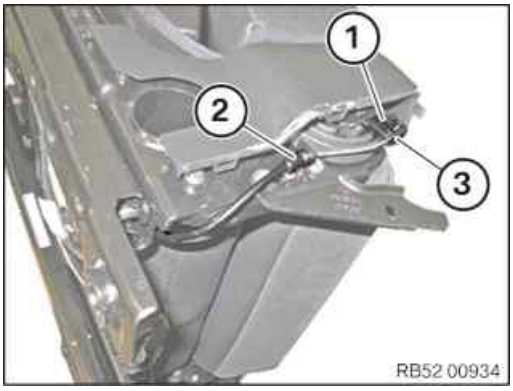
Tighten down screws (2).

Tightening torque 52 26 3AZ.

Connect plug connection (1).



Attach Bowden cable (1) with fastening holders (2) onto seat mechanism.

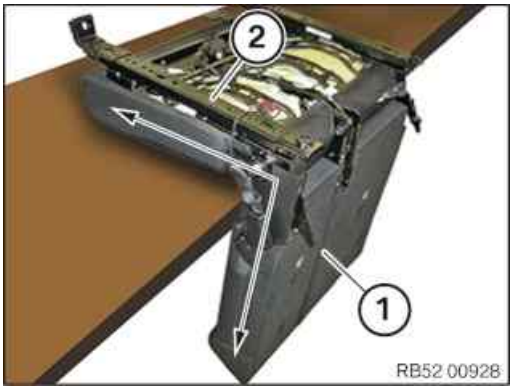


Mount Bowden cable (3) to seat mechanism.

Retaining lug (1) must latch audibly into place.

Latch Bowden cable sleeve (2) into guide.

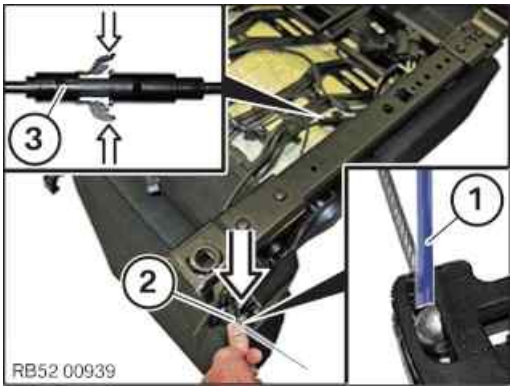
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Bowden cable setting

Seat mechanism must be moved into following basic setting:

- Set rear seat backrest (1) upright relative to seat mechanism (2)
- Rear seat backrest must latch audibly into place

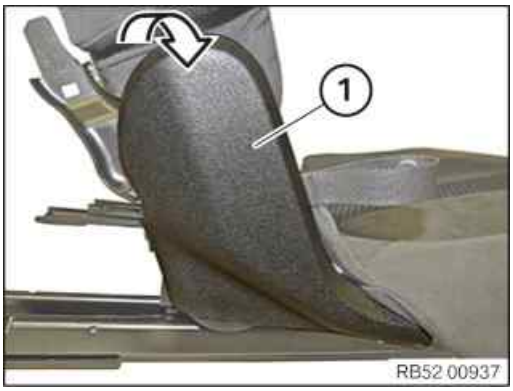


Bowden cable must be pretensioned by inserting a wire (1) (Ø 1 mm).

Keep Bowden cable pretensioned by pressing on lever (2).

Press locks on Bowden cable compensation (3) together until they latch audibly into place.

Remove wire (1) from lever (2).



Clip in cover (1) in direction of arrow.

Required follow-up work:

- Install rear seat at right

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52 26 725 Replace seat bench support



Necessary preliminary tasks:

- Remove seat bench



Remount the following parts:

- Seat cover for rear seat
- Centre rear seat backrest
- Rear seat backrests on the right and left
- Lower strap, centre
- Lower strap, left and right



Required follow-up work:

- Install rear seat bench

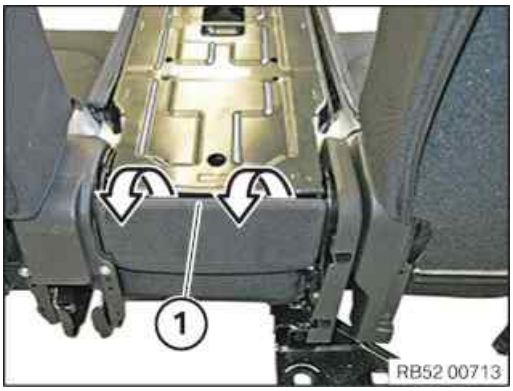
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52 26 414 Replacing backrest cover for centre rear seat

Necessary preliminary tasks:

- Removing rear middle head restraint
- Remove centre guide sleeves
- Removing rear panel on centre rear seat backrest

Removal:



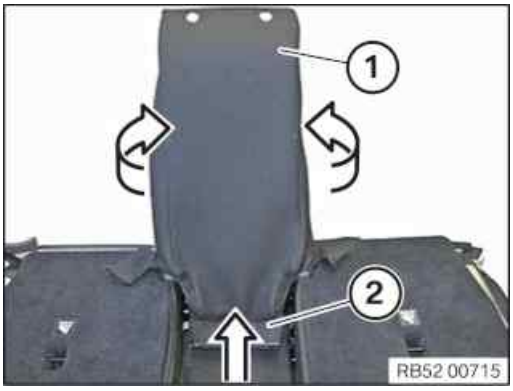
Remove backrest cover (1) in direction of arrow.



Remove backrest cover (1) in direction of the arrow starting from below.

Installation:

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Attach backrest cover (1) starting from the top and in direction of the arrow.

Guide backrest cover (1) in the lower area (2) towards to back.

Install the rear panel on centre rear seat backrest.



Press the welt of backrest cover (1) in direction of the arrow into the backrest frame.

Required follow-up work:

- Install centre guide sleeves
- Install centre head restraint

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52 20 ... Replacing left backrest remote unlocking

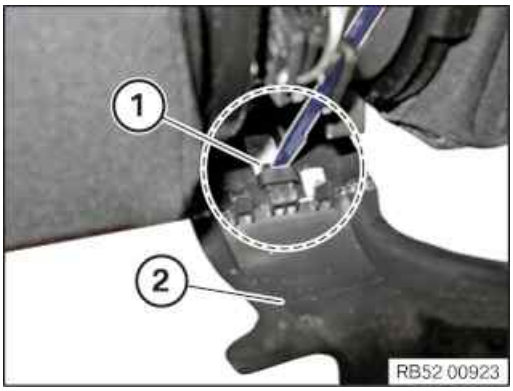
Necessary preliminary tasks:

- Remove left rear seat

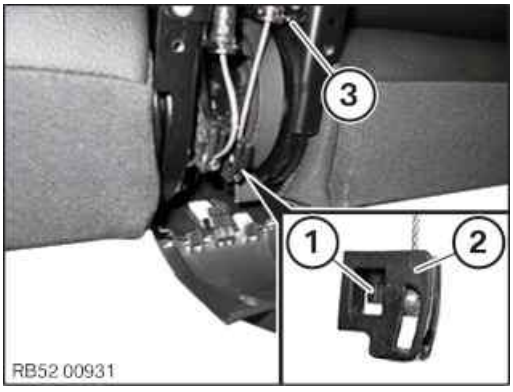
Removal:



Release screws (1).



Unlock the retaining lug (1) and remove the trim (2).



Unlock the retaining lug (1) and remove the Bowden cable with holder (2).
Remove the Bowden cable sleeve from the guide (3).

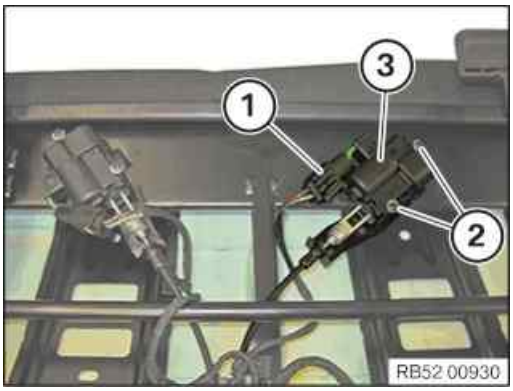
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Disconnect the cable strap (1) from the Bowden cable.



Loosen the mounting clips (1) in the marked area.

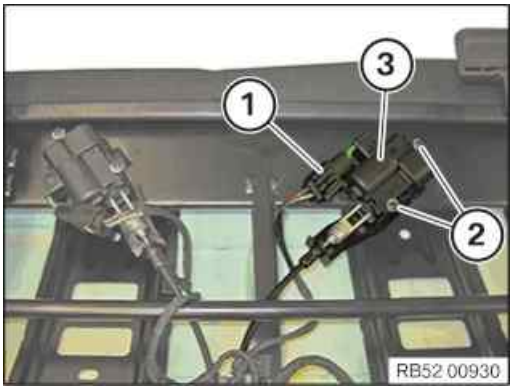


Disconnect plug connection (1).

Unfasten screws (2).

Remove backrest remote unlocking mechanism (3) and unlatch Bowden cable sleeve from guide.

Installation:



Install backrest remote unlocking mechanism (3) and latch Bowden cable sleeve into relevant guide while doing so.

Tighten down screws (2).

Tightening torque 52 26 3AZ.

Connect plug connection (1).

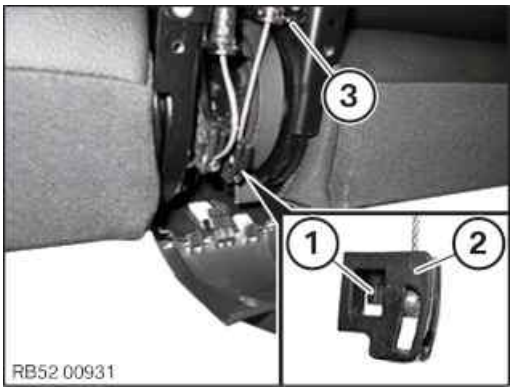
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Secure the mounting clips (1) in the marked area.

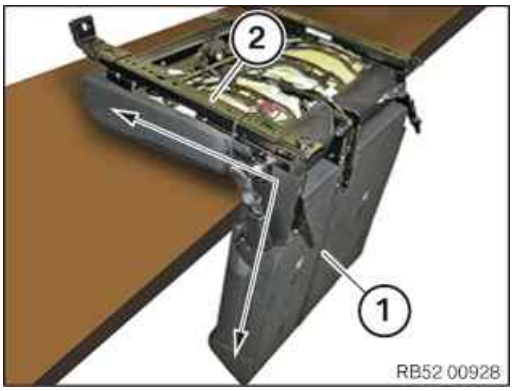


Secure the Bowden cable with the cable strap (1).



Engage the Bowden cable sleeve in the guide (3).

Install the Bowden cable including holder (2). Retaining lug (1) must latch audibly into place.

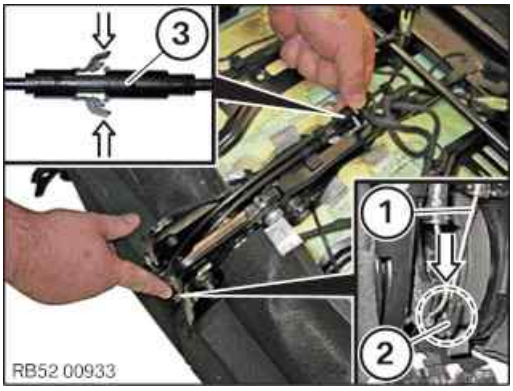


<u>Bowden cable setting</u>

Seat mechanism must be moved into following basic setting:

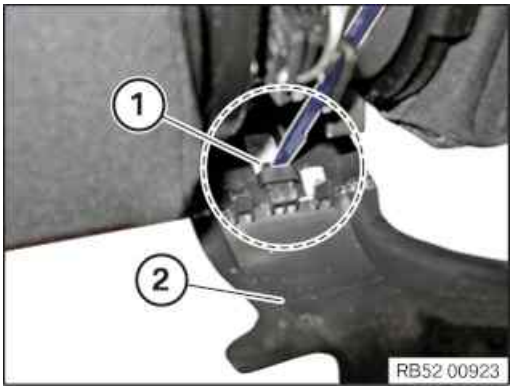
- Set rear seat backrest (1) upright relative to seat mechanism (2)
- Rear seat backrest must latch audibly into place

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Continue to apply tension to the Bowden cable (1) by pressing on the lever (2).

Press locks on Bowden cable compensation (3) together until they latch audibly into place.



Engage the retaining lug (1) and install the trim (2).



Tighten down screws (1).

Required follow-up work:

- Install the left rear seat

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52 26 400 Replacing seat cover for rear seat

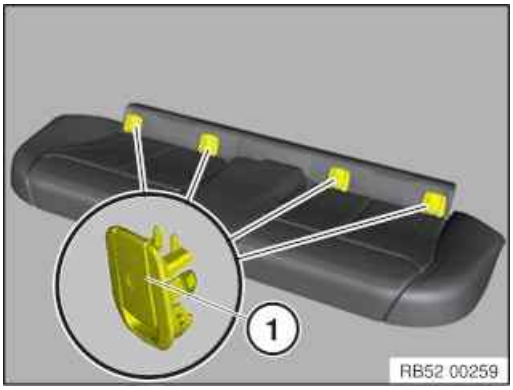
Special tools required:

- 52 0 050

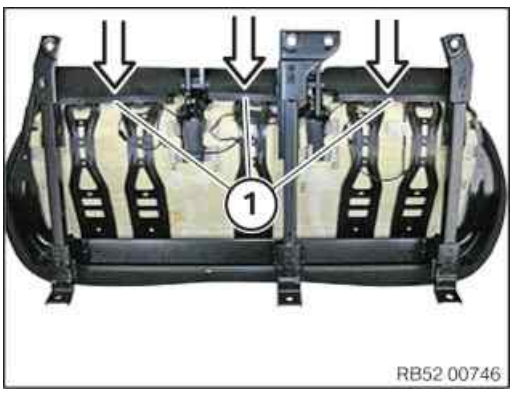
Necessary preliminary tasks:

- Remove seat bench

Removal:



Unclip ISOFIX cover cap (1).



Clip in seat cover (1) in direction of arrow.



Lever out welt in marked area using a suitable tool.
Remove seat fabric.

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Detaching cover and upholstery:

- Release all clamps on trim wires
- Remove seat cover from upholstery
- Remove remaining clamps from cover and upholstery



Replacement only:

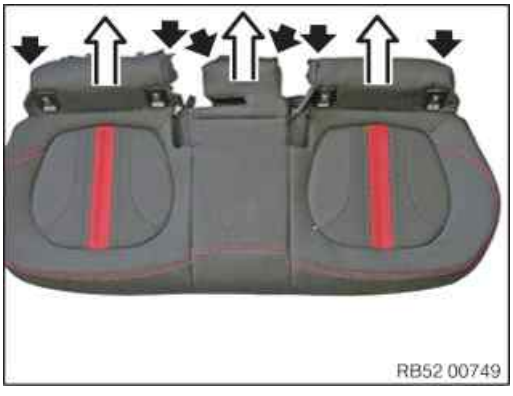
- Push trim wires into new seat cover
- If necessary, cut in mounting for trim wires of new cover

Installation:



Installation note:
Insert new clamps with special tool 52 0 050 .

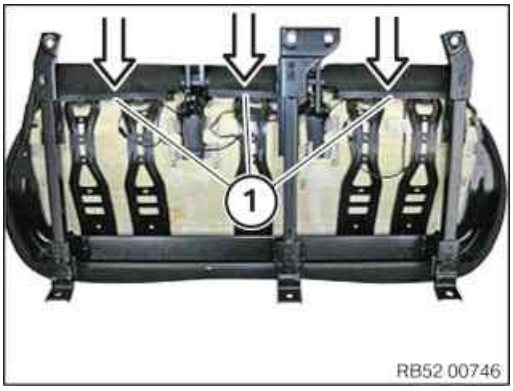
1. Upholstery
2. Clamp
3. Trim wire in upholstery
4. Trim wire in seat cover
5. Seat cover



Note:
Position the cover and the upholstery correctly.

Feed in seat cover over the seat frame in direction of arrow.

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Feed in seat cover (1) in the direction of the arrow.

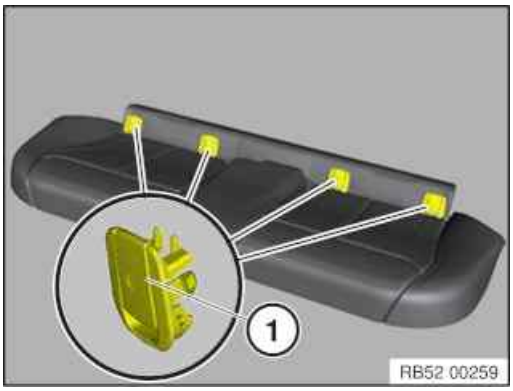


Note:
Take care that the clamps are available at the marked place and are not damaged.

Clamps must snap into place perceptively.



Clip welt into marked area.



Clip in ISOFIX cover caps (1).*Note:*
Pull cover straps through foam part into Isofix openings.

Make sure ISOFIX cover caps (1) are correctly engaged.

Required follow-up work:

- Install rear seat bench

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52 20 ... Replacing the middle backrest remote unlocking

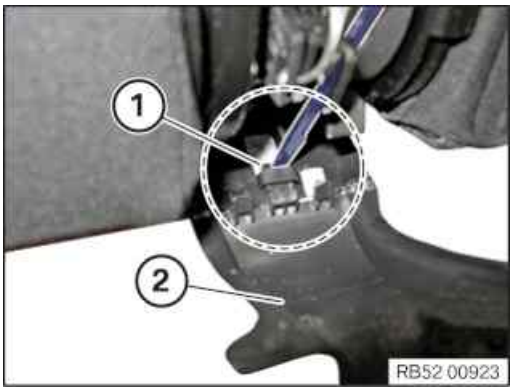
Necessary preliminary tasks:

- Remove left rear seat

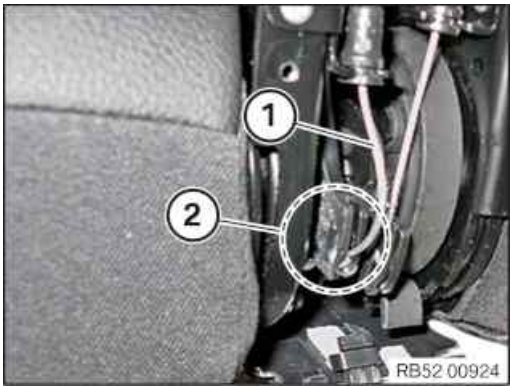
Removal:



Release screws (1).

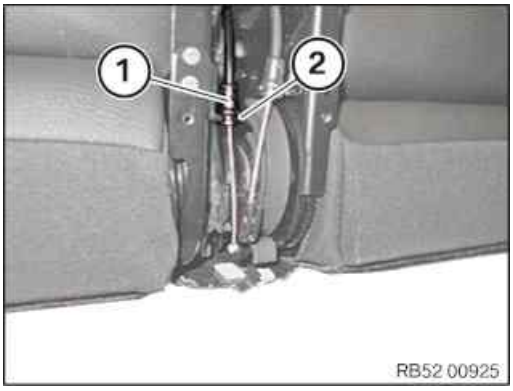


Unlock the retaining lug (1) and remove the trim (2).



Carefully lever out Bowden cable (1) in the marked area (2).

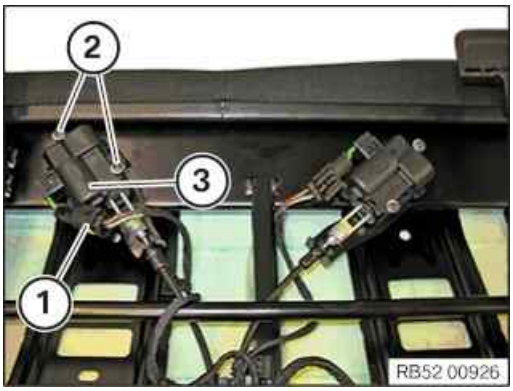
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Remove Bowden cable sleeve (1) from guide (2).



Disconnect the cable strap (1) from the Bowden cable.

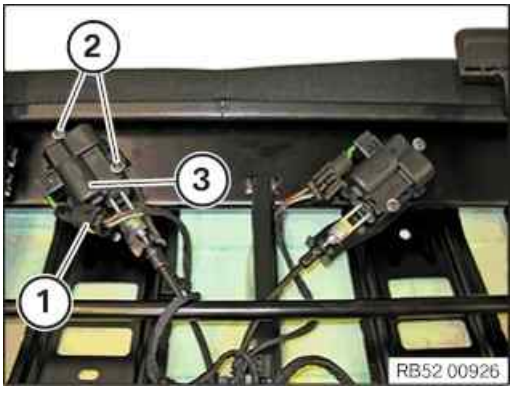


Disconnect plug connection (1).

Unfasten screws (2).

Remove backrest release (3) and disengage the Bowden cable sleeve from the guide.

Installation:



Install backrest release (3) and engage the Bowden cable sleeve into the corresponding guide.

Tighten down screws (2).

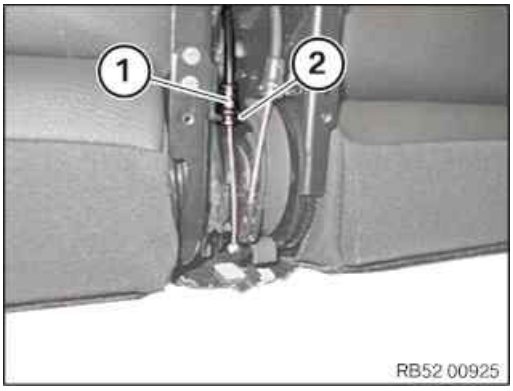
Tightening torque 52 26 3AZ.

Connect plug connection (1).

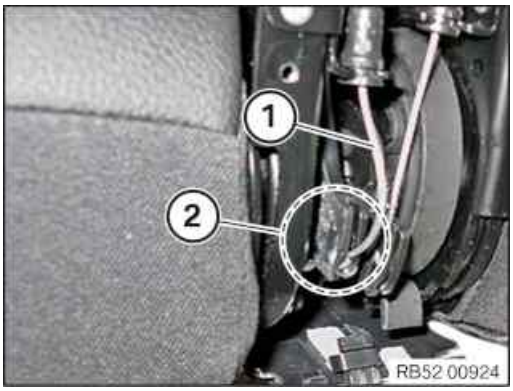
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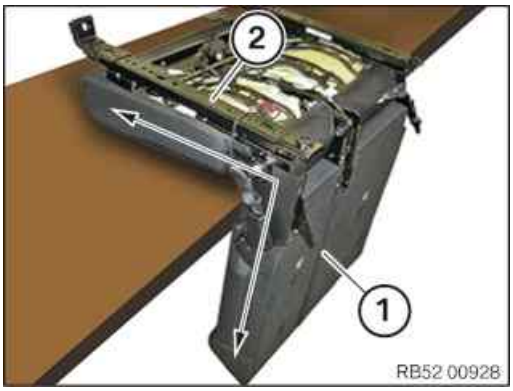
Fix Bowden cable at cable strap (1).



Engage Bowden cable sleeve (1) in guide (2).



Carefully engage Bowden cable (1) in the marked area (2).

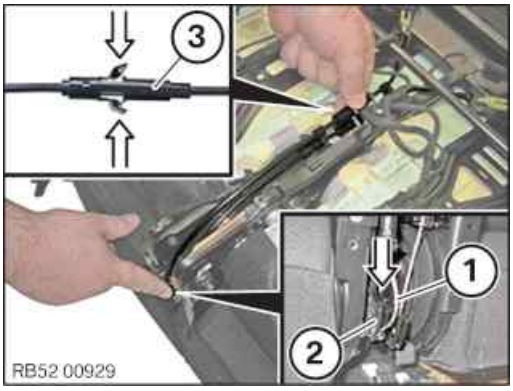


<u>Bowden cable setting</u>

Seat mechanism must be moved into following basic setting:

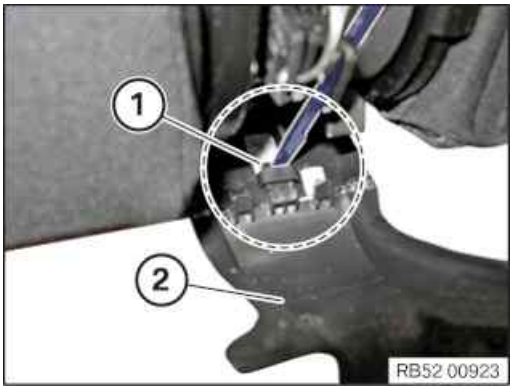
- Set rear seat backrest (1) upright relative to seat mechanism (2)
- Rear seat backrest must latch audibly into place

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Continue to apply tension to the Bowden cable (1) by pressing on the lever (2).

Press the locks on the Bowden compensation (3) until it engages audibly.



Engage the retaining lug (1) and install the trim (2).



Tighten down screws (1).

Required follow-up work:

- Install the left rear seat

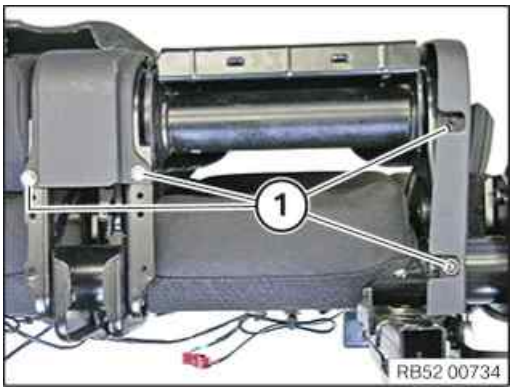
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52 26 721 Replacing the rear seat backrest (frame), centre

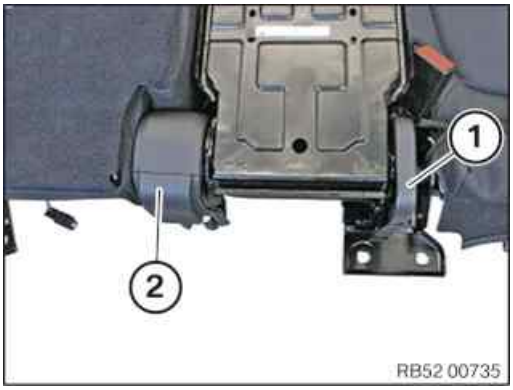
Necessary preliminary tasks:

- Remove rear seat
- Remove backrest cover for rear seat, centre

Removal:

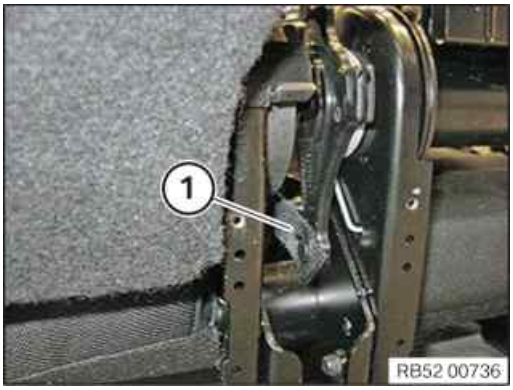


Release screws (1).



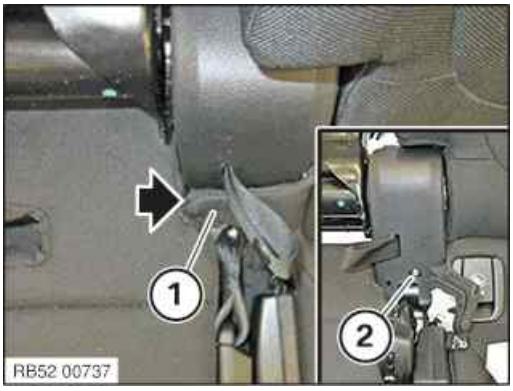
Remove cover (1) towards top.

Unclamp cover (2) and remove.



Remove loop (1).

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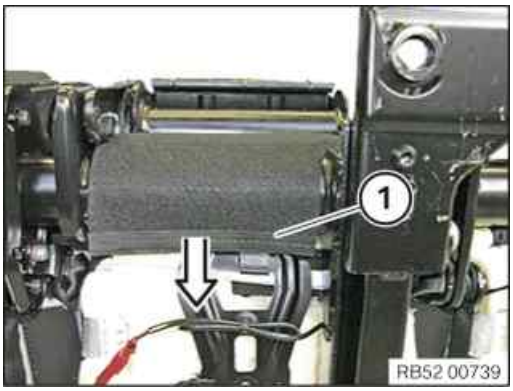
Unclip cover (1) and put to one side.

Release screw (2).

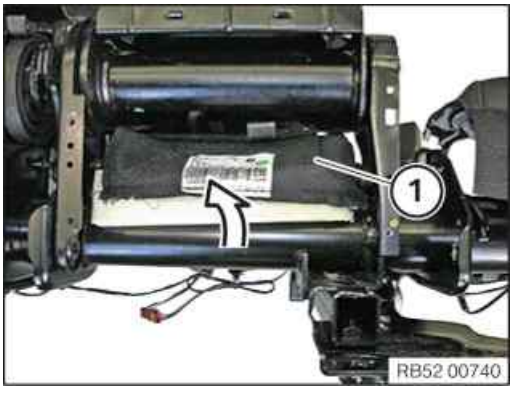


Tilt centre armrest (1) towards the front.

Remove cover (2) in direction of arrow.

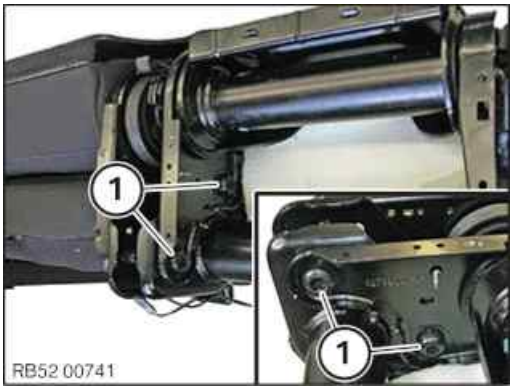


Unclip seat cover (1) in the direction of the arrow.

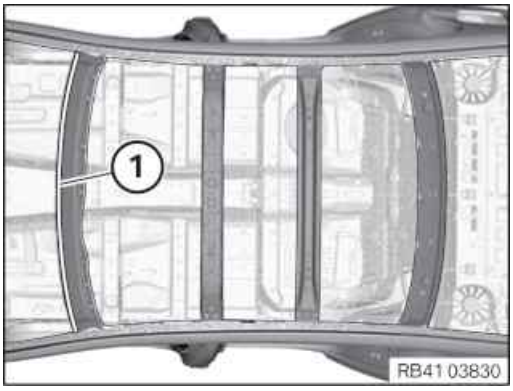


Feed out seat cover (1) including upholstery towards the front in the direction of the arrow.

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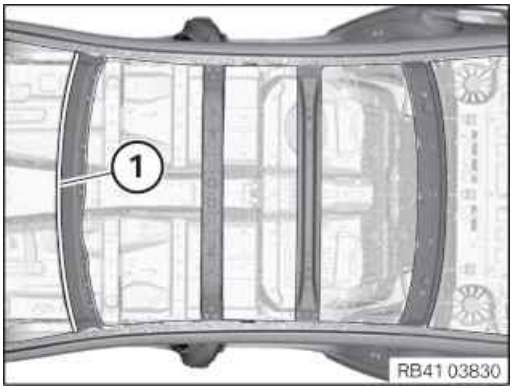
Release screws (1).



Release screws (1).

Remove rear seat armrest frame.

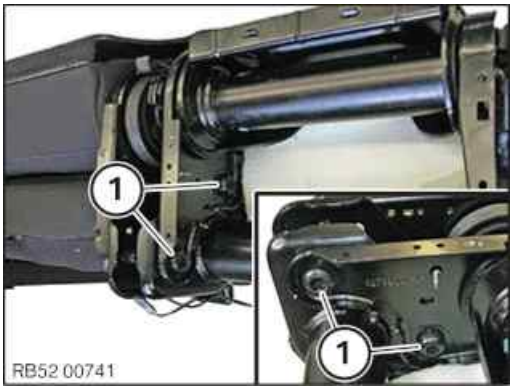
Installation:



Position rear seat armrest frame.

Tighten down screws (1).

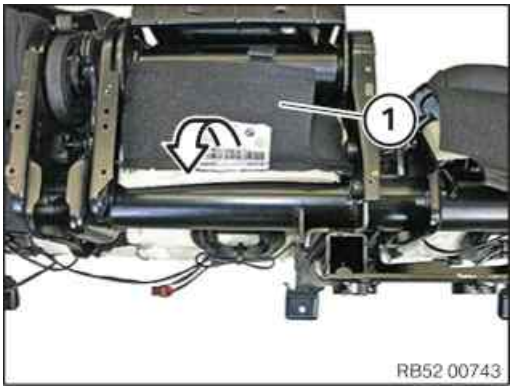
Tightening torques 52 26 2AZ.



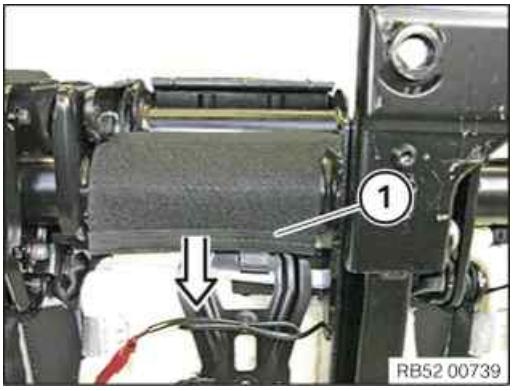
Tighten down screws (1).

Tightening torques 52 26 2AZ.

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Feed in seat cover (1) in the direction of the arrow.

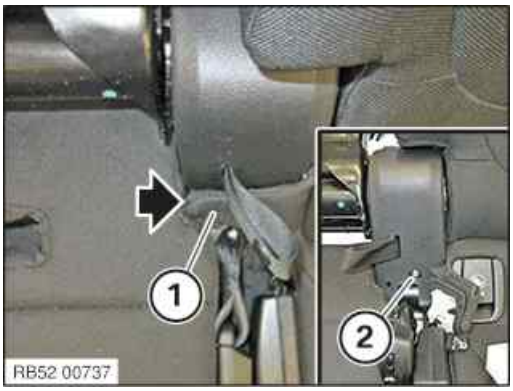


Feed in seat cover (1) in the direction of the arrow.



Tilt centre armrest (1) towards the front.

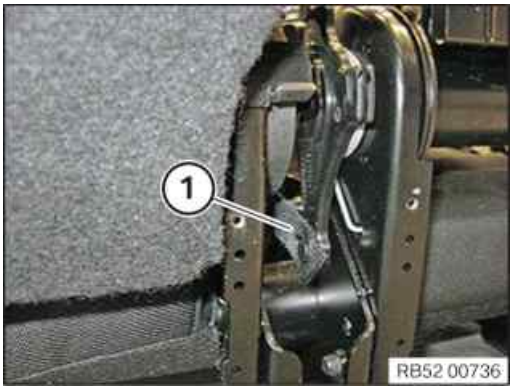
Position and feed in cover (2) including loop in the direction of the arrow.



Tighten screw (2).

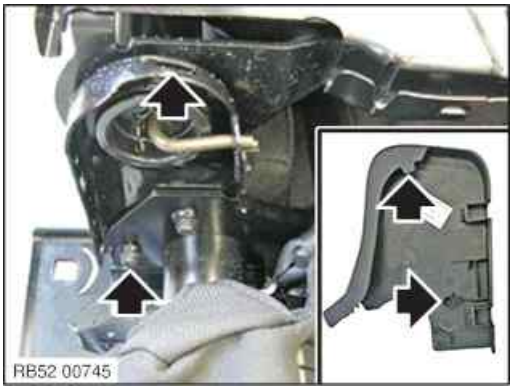
Clip in seat cover (1).

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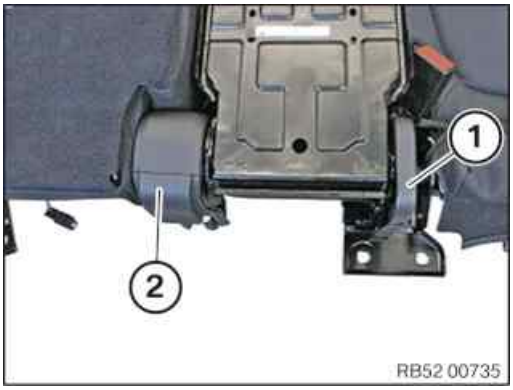


Attach loop (1).

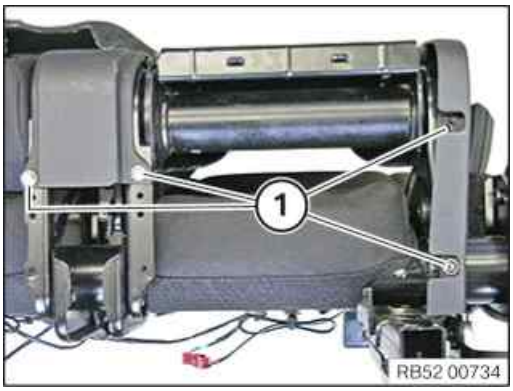
Note: Correctly feed in cover into the associated guide.



See mark.



Clip in cover (1).
Clip in cover (2).



Tighten down screws (1).

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Required follow-up work:

- Install backrest cover for rear seat, centre
  Install rear seat

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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.	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.
		Check 2 (when dismounted): 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.	
	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.	

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00 00 ... Microencapsulated screws



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

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