

62 11 280 Removing and installing instrument cluster

Prerequisite

- Steering column is positioned fully towards the rear.



RISK OF DAMAGE



Electrostatic discharge.

Damage to or destruction of electrical components.

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

PRELIMINARY WORK

1 – Disconnecting all battery earth leads



- See additional information.

MAIN WORK

2 – Removing the instrument cluster (KOMBI)

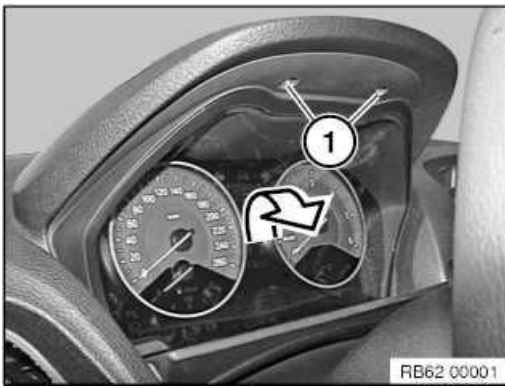


RISK OF DAMAGE

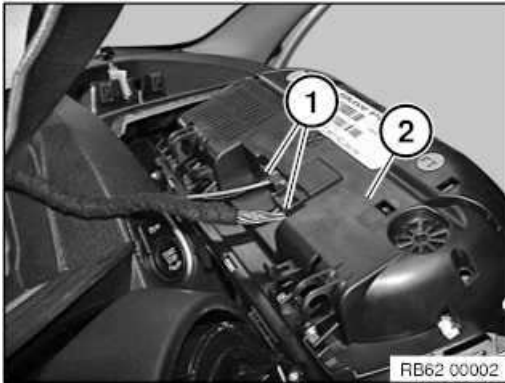
Scratches.

Tools and sharp-edged components can cause scratches.

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



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



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

3 – Installing the instrument cluster (KOMBI)

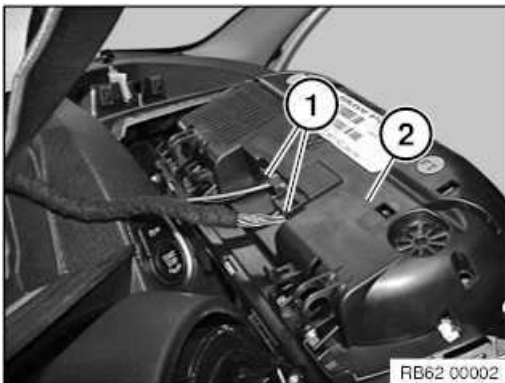


RISK OF DAMAGE

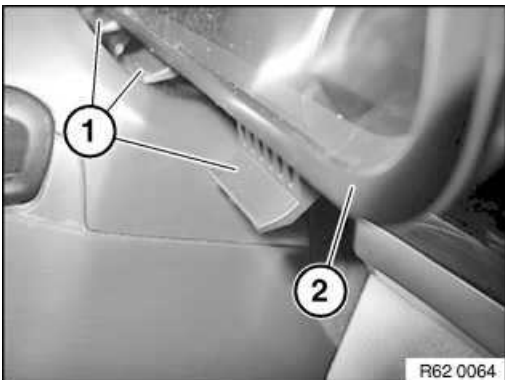
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Tools and sharp-edged components can cause scratches.

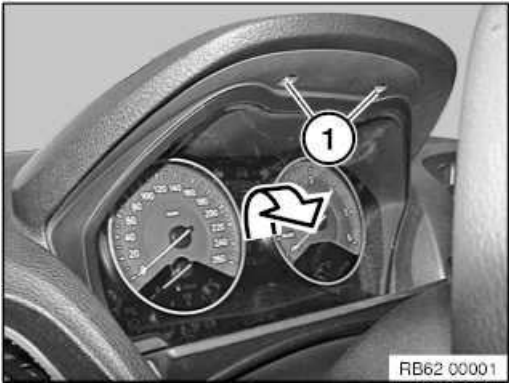
- Protect working area.
- Handle tools and components carefully.



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



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



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

Instrument cluster to instrument panel

Screw		1,7 Nm
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POSTPROCESSES

4 – Disconnecting all battery earth leads



- See additional information.

Additional Information

Overview of Tightening Torques

Instrument cluster to instrument panel		Used in step 3
Screw		1,7 Nm

Links

Repair instructions	Used in step
61 20 900 Disconnecting and connecting battery earth lead	1 4
61 20 900 Disconnecting and connecting battery earth lead	1 4
61 20 900 Disconnecting and connecting battery earth lead	1 4
61 20 900 Disconnecting and connecting battery earth lead	1 4
61 20 900 Disconnecting and connecting battery earth lead	1 4
61 20 900 Disconnecting and connecting battery earth lead	1 4
61 20 900 Disconnecting and connecting the battery earth lead (all battery earth leads)	1 4
61 20 900 Disconnecting and connecting the battery earth lead (all battery earth leads)	1 4
61 20 900 Disconnecting and connecting battery earth lead	1 4
61 20 900 Disconnecting and connecting the battery earth lead (all battery earth leads)	1 4
61 20 900 Disconnect and connect battery earth lead (Plug-in Hybrid Electric Vehicle)	1 4
61 20 900 Disconnecting and connecting battery earth lead	1 4
61 20 900 Disconnecting and connecting battery earth lead	1 4
61 20 900 Disconnecting and connecting battery earth lead	1 4

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61 20 900 Disconnecting and connecting battery earth lead	1 4
61 20 900 Disconnecting and connecting battery earth lead	1 4
61 35 ... Notes on ESD protection (Electro Static Discharge)	

62 11 786 Replace instrument cluster (after vehicle diagnosis) (AW specification without programming/encoding, see 61 00 ...)

Prerequisite

- Steering column is positioned fully to the rear.



RISK OF DAMAGE



Electrostatic discharge.

Damage to or destruction of electrical components.

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

PRELIMINARY WORK

1 – Disconnecting all battery earth leads



- See additional information.

MAIN WORK

2 – Removing the instrument cluster (KOMBI)

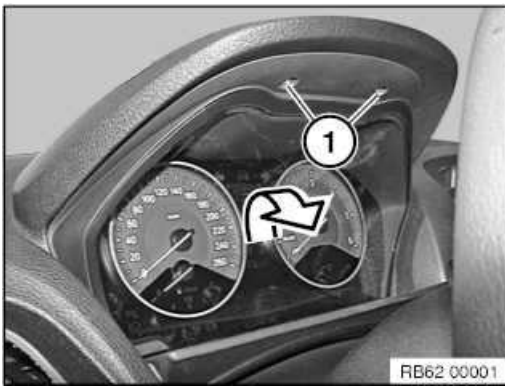


RISK OF DAMAGE

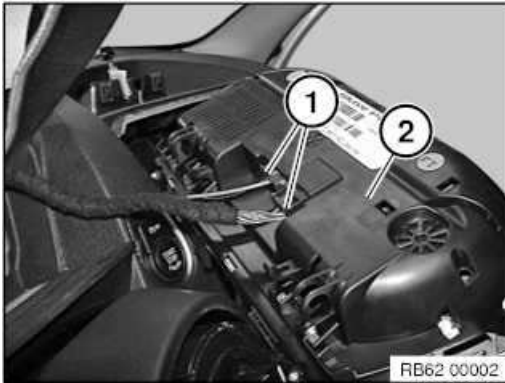
Scratches.

Tools and sharp-edged components can cause scratches.

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



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



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

3 – Installing the instrument cluster (KOMBI)

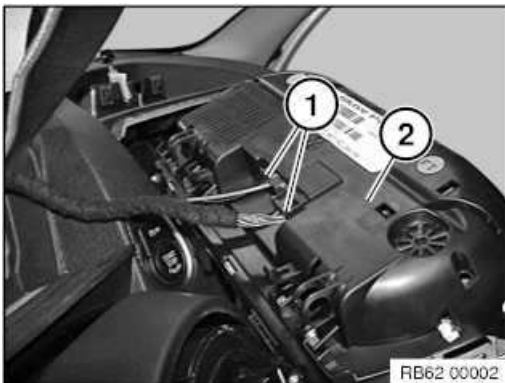


RISK OF DAMAGE

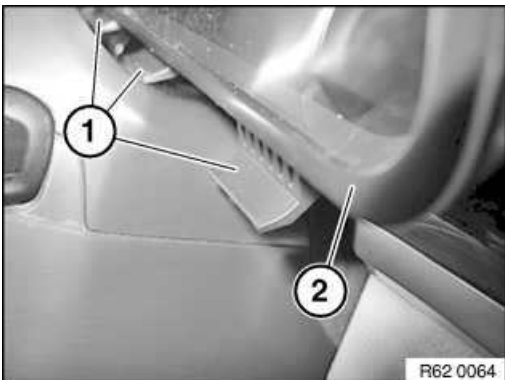
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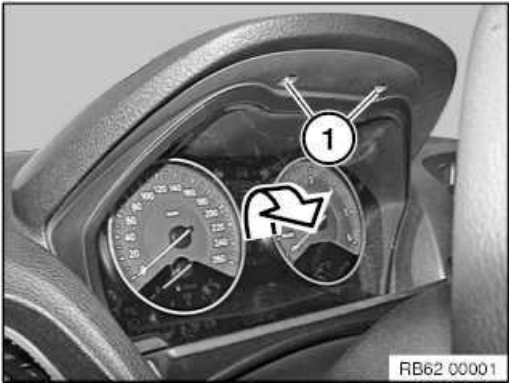
- Protect working area.
- Handle tools and components carefully.



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



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



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

Instrument cluster to instrument panel

Screw		1,7 Nm
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POSTPROCESSES

4 – Disconnecting all battery earth leads



- See additional information.

Additional Information

Overview of Tightening Torques

Instrument cluster to instrument panel		Used in step
Screw		3 1,7 Nm

Links

Repair instructions	Used in step
61 20 900 Disconnecting and connecting battery earth lead	1 4
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61 20 900 Disconnecting and connecting battery earth lead	1 4
61 35 ... Notes on ESD protection (Electro Static Discharge)	

62 30 010 Removing and installing head-up display



RISK OF DAMAGE

Scratches.

Tools and sharp-edged components can cause scratches.

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

PRELIMINARY WORK

1 – Disconnecting all battery earth leads



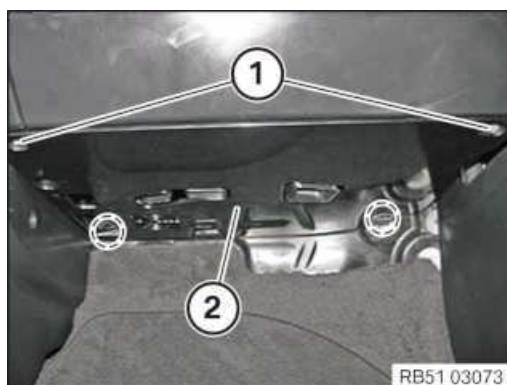
- See additional information.

2 – Adjust the steering column position



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

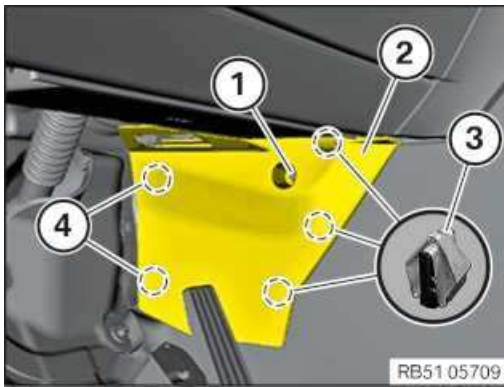
3 – Removing the instrument panel trim at bottom right



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

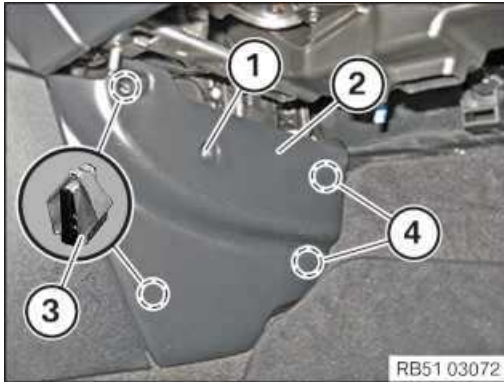
4 – Removing the side trim panel for the left and right centre console

- Removing side trim panel for the left centre console



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

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



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

5 – Remove gearshift lever cover



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



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

6 – Remove the decorative trim from the centre console



RISK OF DAMAGE

Scratches.

Tools and sharp-edged components can cause scratches.

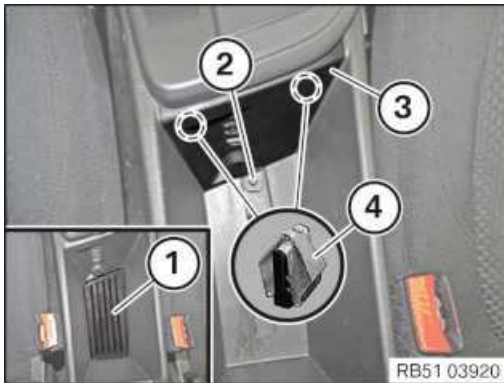
- Protect working area.
- Handle tools and components carefully.



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



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

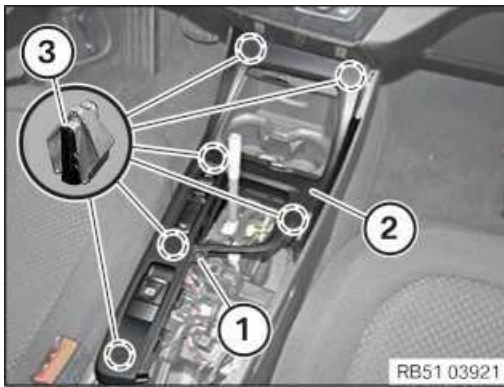


- Remove insert (1) with the special tool **0 496 571 (00 9 327)**.
- Loosen screw (2).
- Lever out trim (3) from clamps (4) towards the rear with the special tool **0 496 571 (00 9 327)**.
- Unfasten plug connection.
- Remove the trim (3).

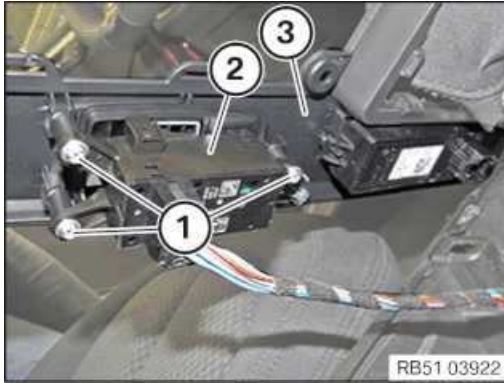


- Loosen screw (1).
- Remove decorative trim (2) and disconnect all the plug connections.
- Remove decorative trim (2).

7 – Remove the centre console trim



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



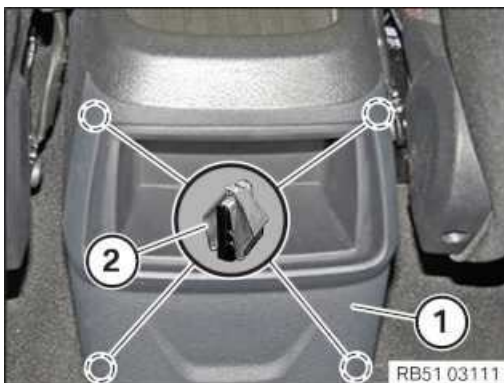
- Loosen screws (1).
- Remove parking brake button (2) from centre console trim (3) and place it down.
The plug connection must not be disconnected.
- Disconnect the remaining plug connections and remove centre console trim (3).

8 – Removing the front storage compartment



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

9 – Removing the rear centre console trim



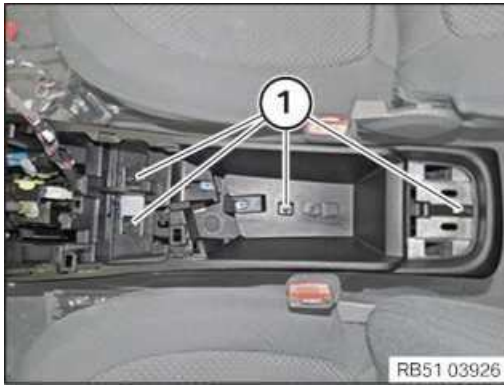
- Lever out and remove centre console trim (1) with the special tool **0 496 569 (00 9 325)** from the clamps (2).

10 – Removing centre console fully with centre armrest

- Removing the centre armrest



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



- Loosen screws (1).



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

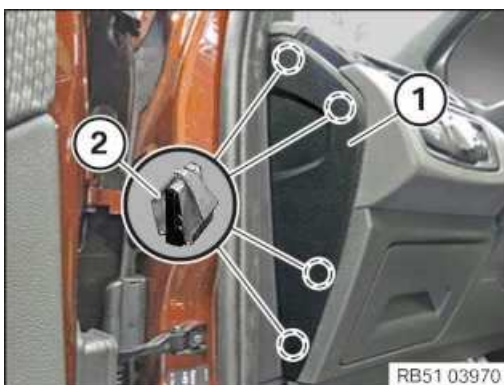
11 – Remove the side panel on the left and right of the instrument panel



NOTICE

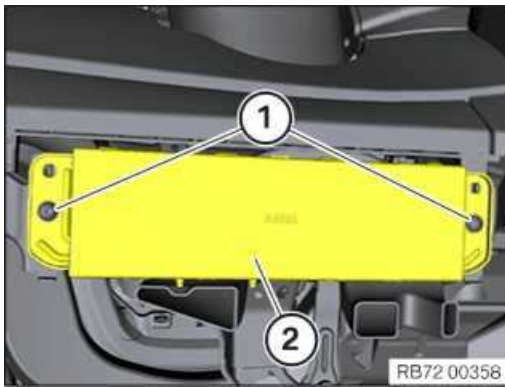
Description is for left component only. Procedure on the right side is identical.

► Remove side panel on the instrument panel



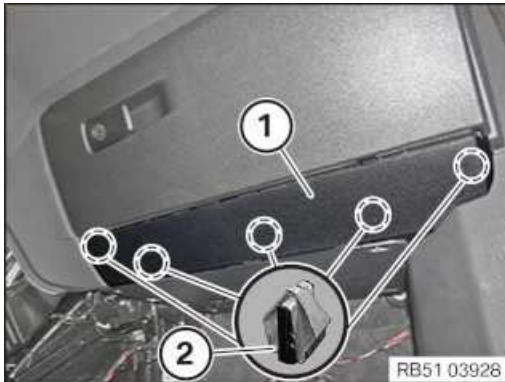
- Lift out the side panel (1) with the special tool **0 496 569 (00 9 325)** from the clamps (2) and slide it out to the rear at an angle.

12 – Removing knee airbag

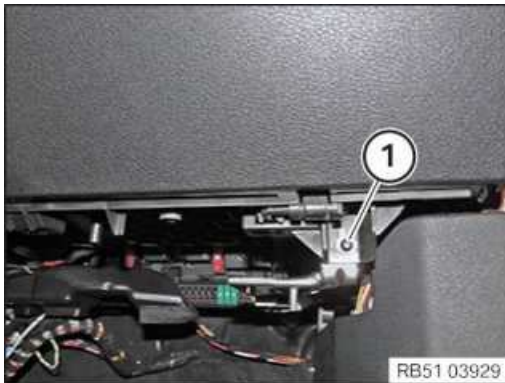


- Unlock plug connection on knee airbag (2) and disconnect.
- Loosen screws (1).
- Remove knee airbag (2).

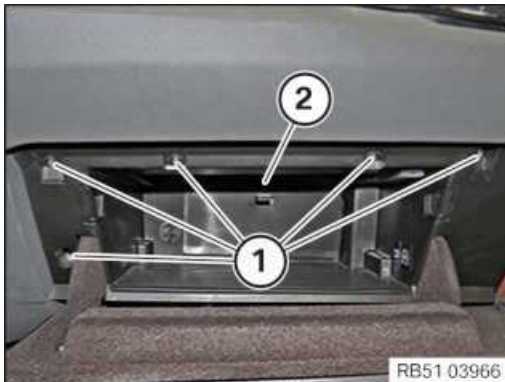
13 – Remove right glove box



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



- Loosen screw (1).

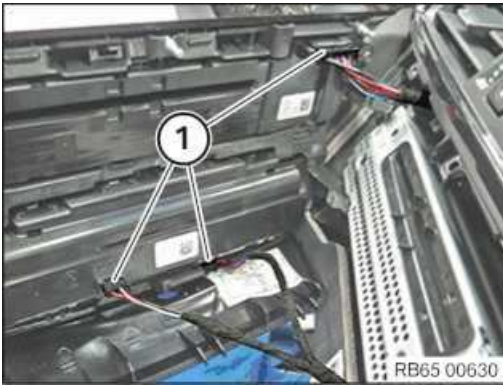


- Loosen screws (1).
- Remove glove box (2) to the inside and disconnect associated plug connections.

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

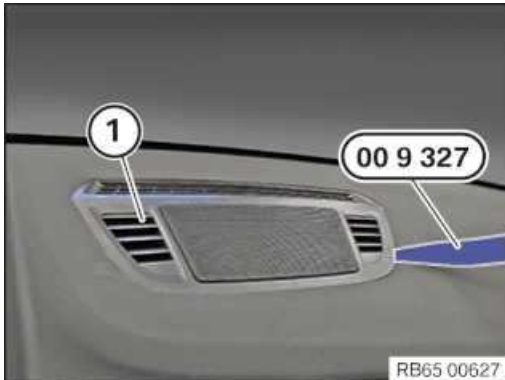


- Unclip the trim (1) using special tool **2 298 505**.

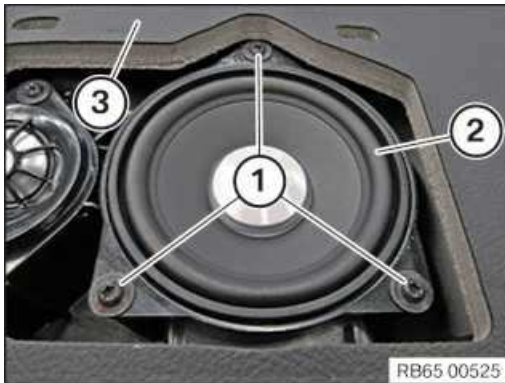


- Unlock plug connection (1) and disconnect.
- Remove the audio operating unit and the air conditioning control panel.

15 – Remove the mid-range speaker from the instrument panel



- Unclip the speaker cover (1) using the special tool **0 496 571 (00 9 327)** and remove upwards.



- Loosen screws (1).
- Disconnect plug connection underneath.
- Guide the mid-range speaker (2) out of the instrument panel (3) and remove it.

16 – Remove Head Unit High (HU-H)



RISK OF DAMAGE



Electrostatic discharge.

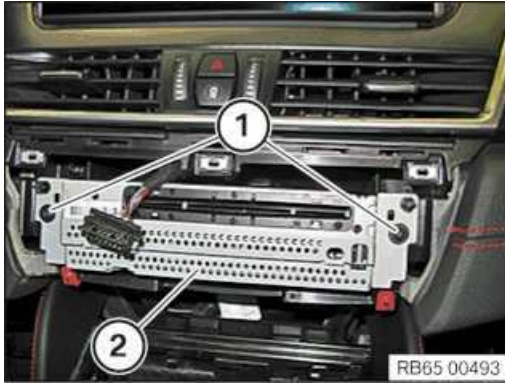
Damage to or destruction of electrical components.

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



- Remove the wiring harness (1).

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

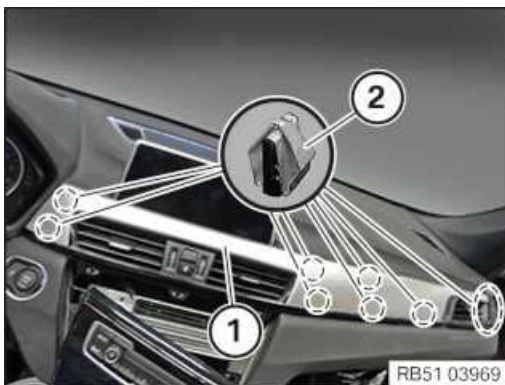


- Loosen screws (1).
- Pull out the head unit (2) a bit.



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

17 – Remove the finisher on the right instrument panel



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

18 – Remove decorative strip from instrument panel

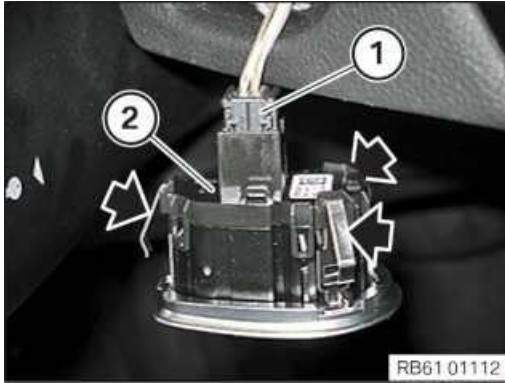


- Release the decorative strip (1) using the special tool **0 496 569 (00 9 325)** from the clamps (2) and remove.

19 – Removing the START-STOP button



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



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

20 – Removing the light operating unit



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

21 – Removing the left and right A-pillar trim panels



NOTICE

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

► Remove the A-pillar trim panel



WARNING

Airbag unit.

Danger! Life-threatening injuries!

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



WARNING

Pyrotechnic components.

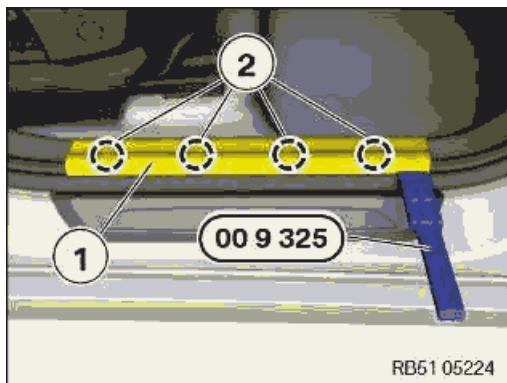
Danger! Life-threatening injuries!

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

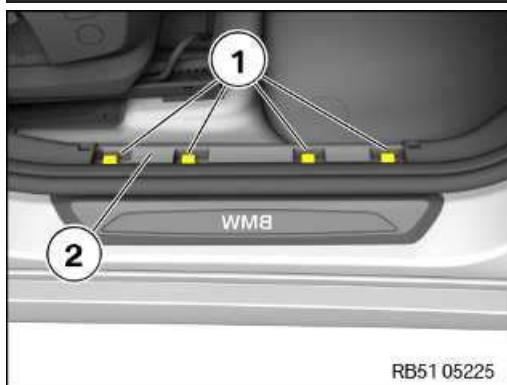


- Unclip cover (1) and unscrew the screw below it.
- Release the A-pillar trim panel (2) from the clips (3) and guide out upwards.

22 – Remove front entrance cover strip

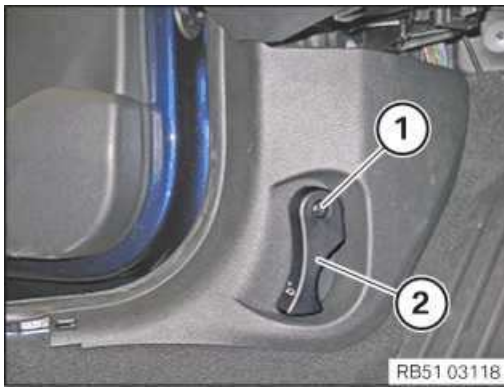


- Unclip the door sill cover strip (1) at the clips **0 496 569 (00 9 325)** using special tool (2) starting from the rear.

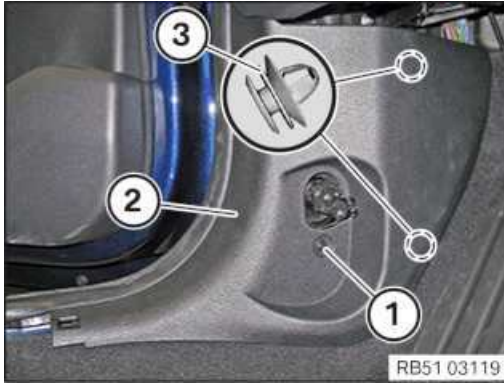


- If applicable, loosen clips (1) from floor panel (2) and mount on the door sill cover strip.

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



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



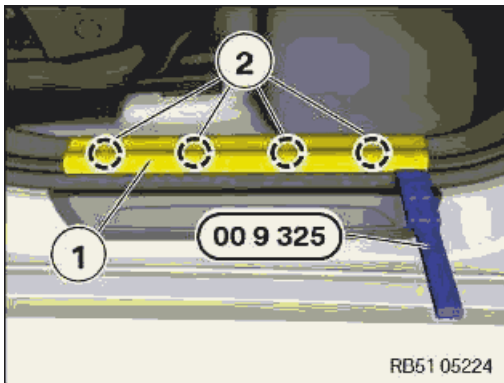
- Loosen screw (1).
- Unclip side trim panel (2) from the clips (3) and remove.

24 – Remove front right door sill cover strip

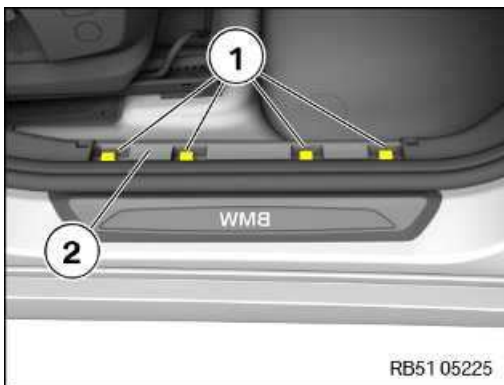


NOTICE

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

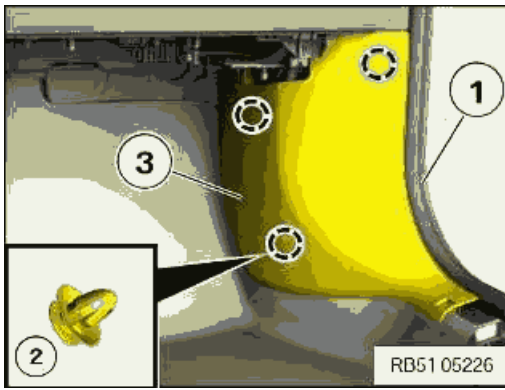


- Unclip the door sill cover strip (1) at the clips **0 496 569 (00 9 325)** using special tool (2) starting from the rear.



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

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



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

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



WARNING

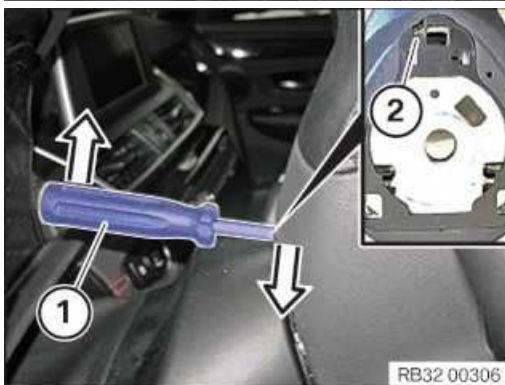
Airbag unit.

Danger! Life-threatening injuries!

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



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

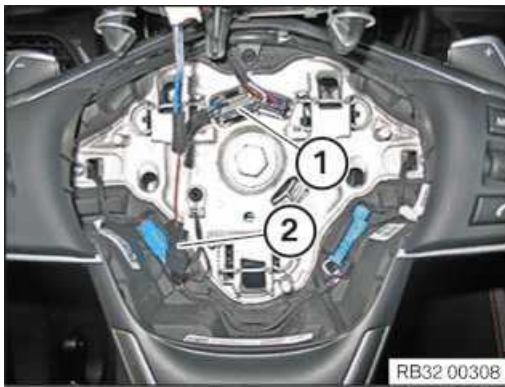


- Insert the slotted screwdriver (1) into the elongated hole on the rear side on the steering wheel.
- Push the slotted screwdriver (1) up and thereby push the retaining spring down (2).

The airbag unit is unlocked.



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



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

27 – Removing steering wheel/sports steering wheel



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

28 – Removing steering column shroud upper section



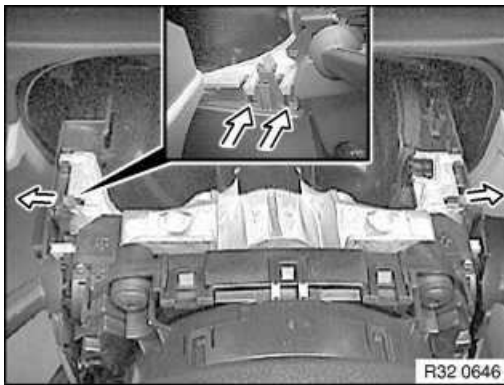
NOTICE

Perform the operations on the left and right side.

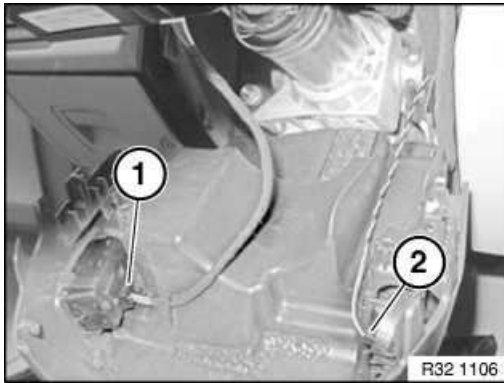
- Unclip the steering column shroud upper section (1) with the special tool **2 298 504** in area (2).
- Fold the steering column shroud upper section (1) up.
- Release the gap cover of the steering column (1) from the brackets (arrows) of the steering column shroud upper section.
- Remove steering column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



29 – Removing steering column shroud lower section

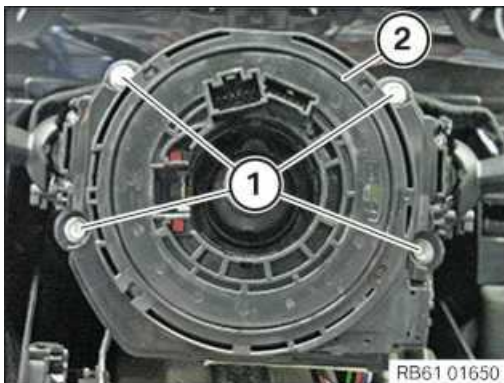


- Press the retaining lugs (arrows) a little outwards and unclip the steering column shroud lower section in a downward direction.

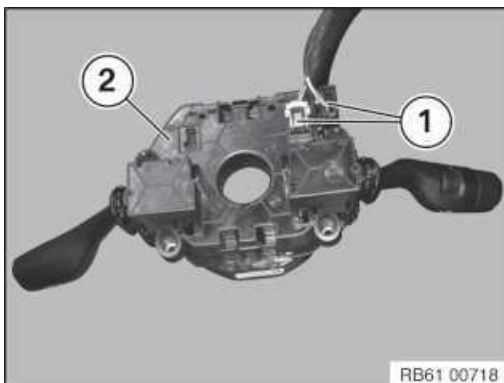


- Tilt steering column shroud lower section in downward direction.
- Unlock and disconnect the plug connections (1) and (2).
- Remove steering column shroud lower section.

30 – Removing the steering column switch cluster (SZL)



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



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

31 – Removing the instrument cluster (KOMBI)

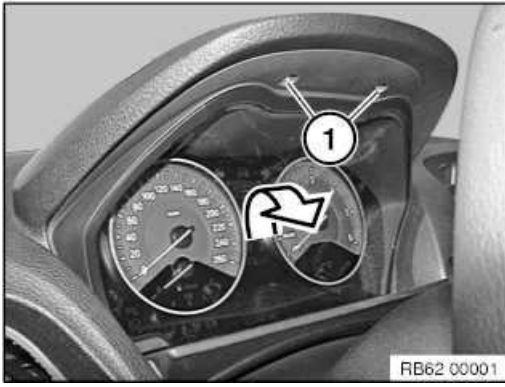


RISK OF DAMAGE

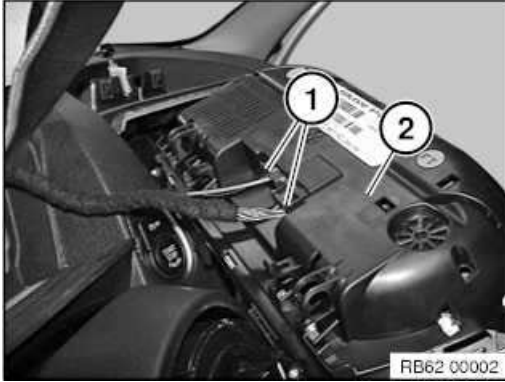
Scratches.

Tools and sharp-edged components can cause scratches.

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

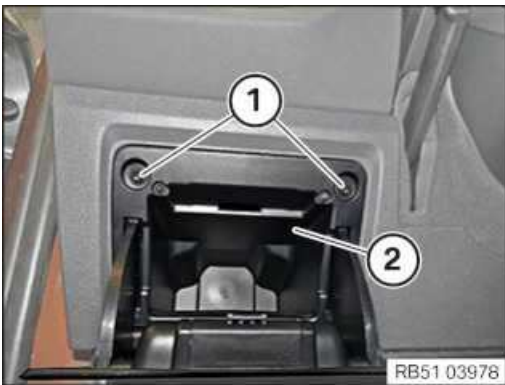


- Loosen both screws (1).
- Thread out instrument cluster (KOMBI) in direction of arrow.



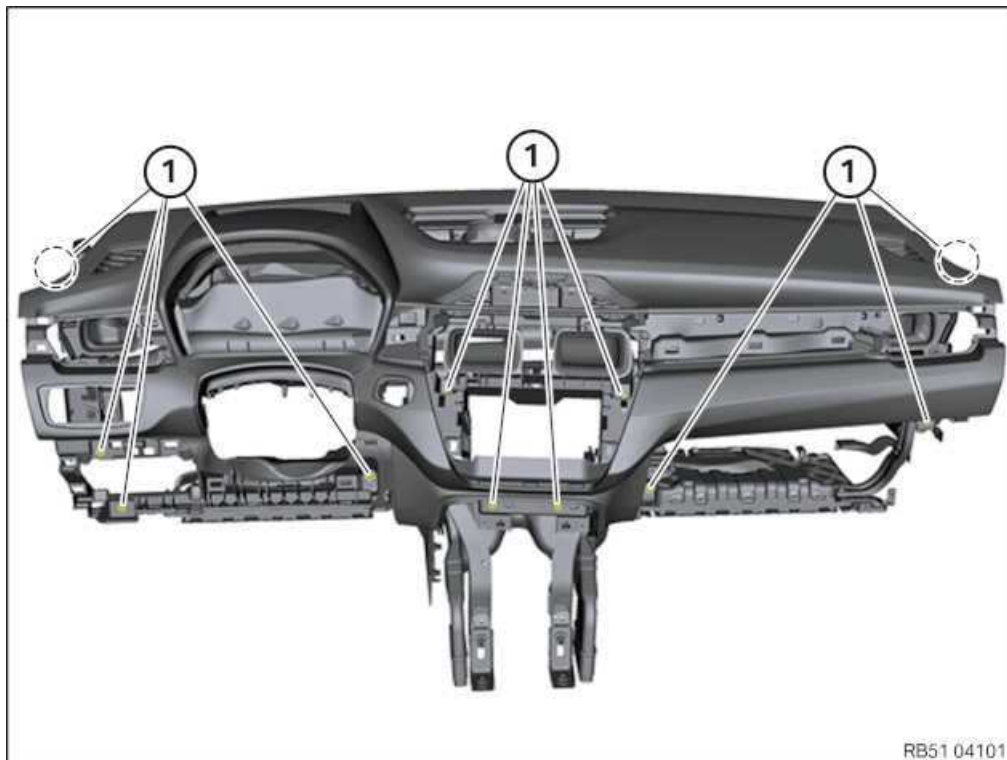
- Disconnect all plug connections (1).
- Removing the instrument cluster (KOMBI) (2).

32 – Removing the left fold-down compartment



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

33 – Remove instrument panel trim



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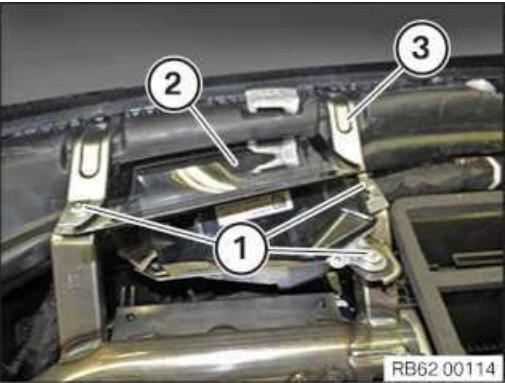
TECHNICAL INFORMATION

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

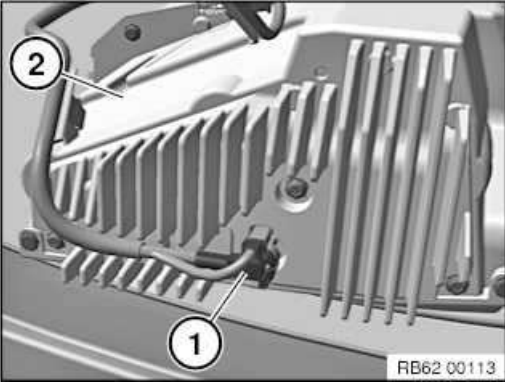
For additional information see: 72 00 ... Notes on unlocking/locking airbag plug connections

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

34 – Removing the Head-Up Display

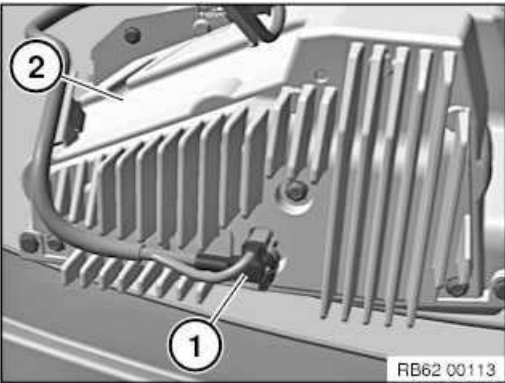


- Loosen screws (1).
- Carefully feed out the head-up display (2) from the support (3) towards the top.

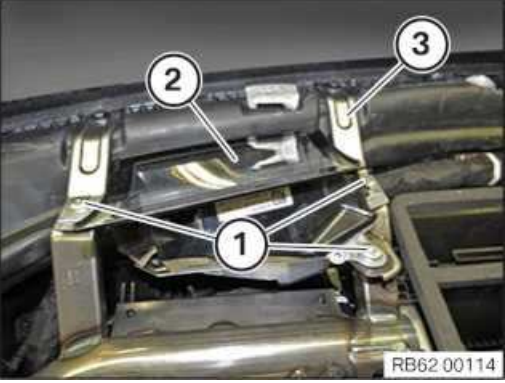


- Unlock and disconnect the plug connection (1) on the underside of the Head-Up Display (2).
- Remove the Head-Up Display (2).

35 – Installing the head-up display



- Connect and lock the connector (1) on the bottom of the Head-Up Display (2).



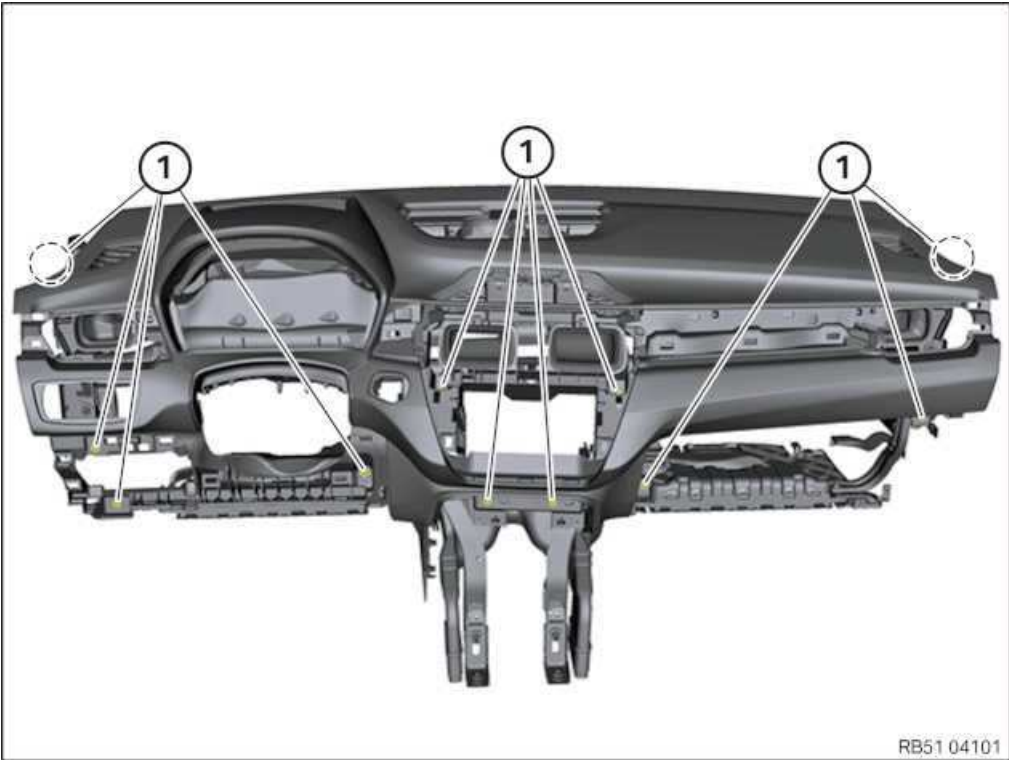
- Position the Head-Up Display (2) on the support (3) correctly.
- Tighten the screws (1).

Head-Up Display to support

Screw			8 Nm
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POSTPROCESSES

36 – Install instrument panel trim



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TECHNICAL INFORMATION

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

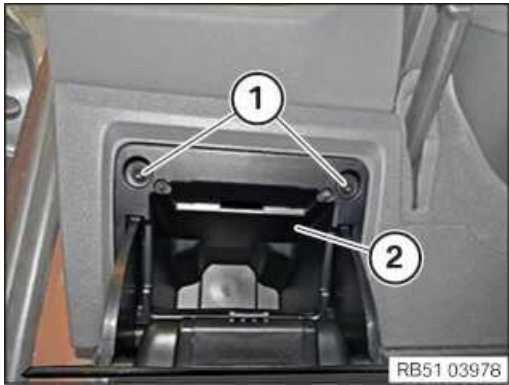
- Guide the instrument panel trim through the door aperture with the help of an auxiliary person.
- Install the instrument panel trim, and while doing so secure the wiring harness and connect and lock all the connectors.
- Connect and lock the plug connection of the front passenger airbag.
- Make sure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

Instrument panel trim to carrier support

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

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



- Tighten the screws (1).

Fold-down compartment to instrument panel

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

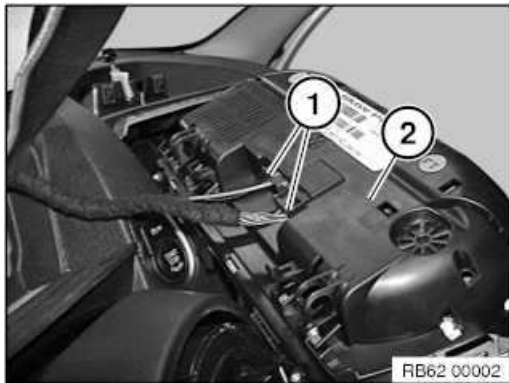


RISK OF DAMAGE

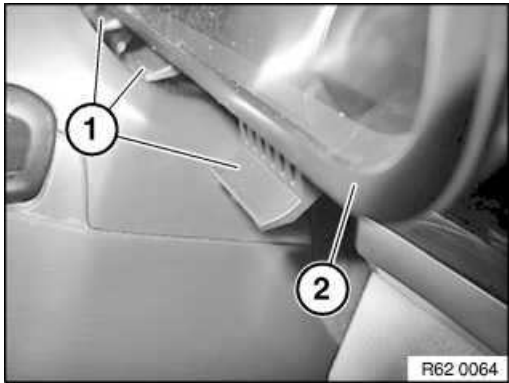
Scratches.

Tools and sharp-edged components can cause scratches.

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



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



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



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

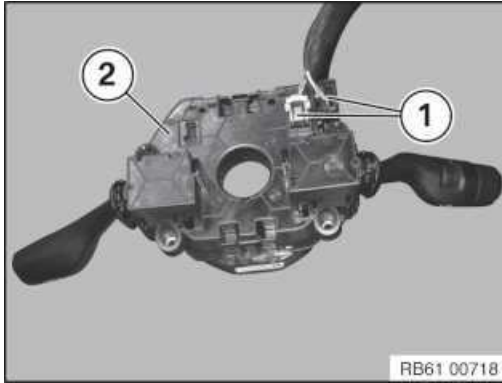
Instrument cluster to instrument panel

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



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



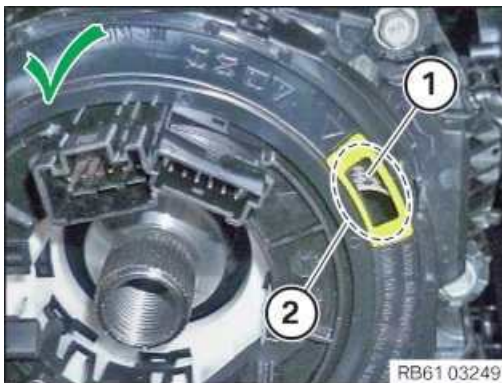
- Connect the connector (1) with the steering column switch cluster (SZL) (2).

► Check the neutral position of the clock spring



TECHNICAL INFORMATION

Different variants may be installed depending on the vehicle equipment.



Check

• Version A:

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

Result

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

Measure

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

Check



• **Version B:**

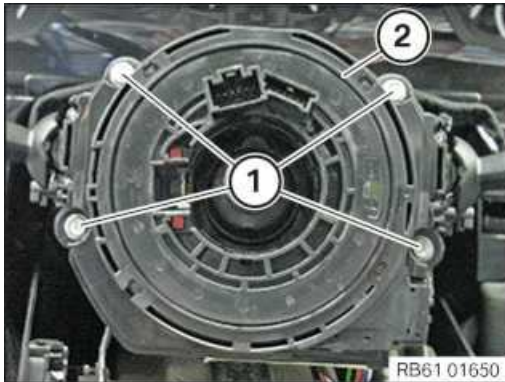
Check the mark (1) on the coil spring in the inspection glass (2).

Result

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

Measure

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

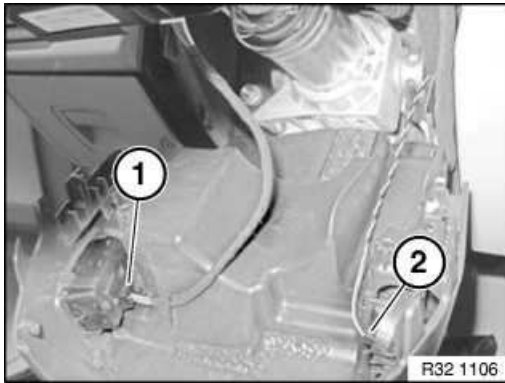


- Position the steering column switch cluster (SZL) (2).
- Tighten the screws (1).

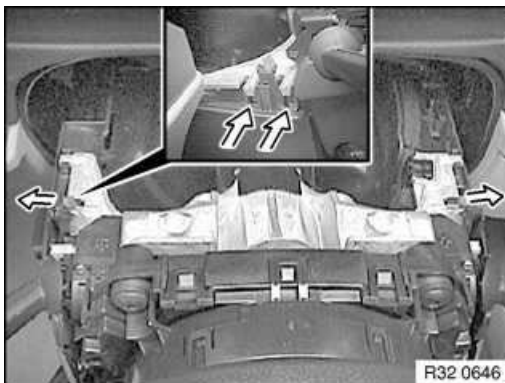
Steering column switch cluster (SZL) on the steering column

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



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

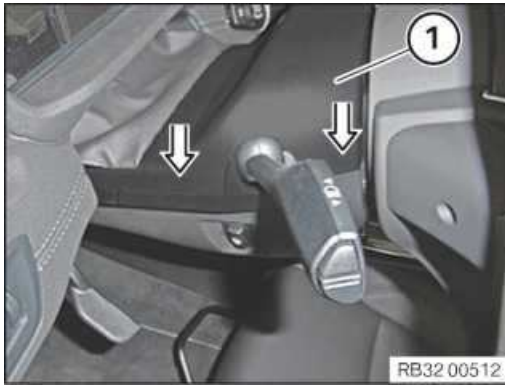


- Position the steering column shroud lower section with the retaining lugs (arrows).
- Press steering column shroud lower section completely towards the top until the retaining lugs (arrows) engage.

41 – Fit steering column shroud upper section



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



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



NOTICE

Perform the operations on the left and right side.

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

42 – Installing the steering wheel/sports steering wheel

► Check the neutral position of the clock spring

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

Check

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



Result

» The mark (1) is not visible.

Measure

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

Check



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

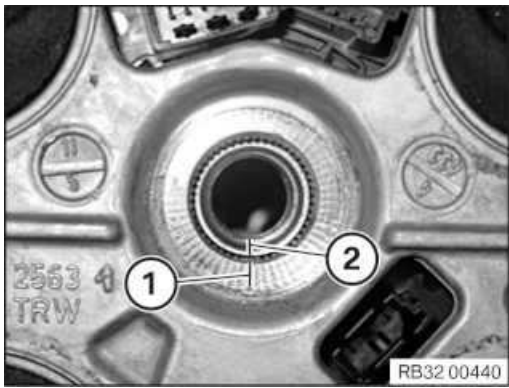
Result

» Screw (1) is micro-encapsulated.

Measure

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

Parts: Screw



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



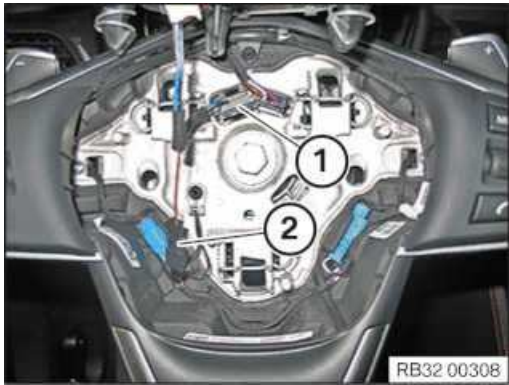
- Tighten down screw (1).

Steering wheel to steering column

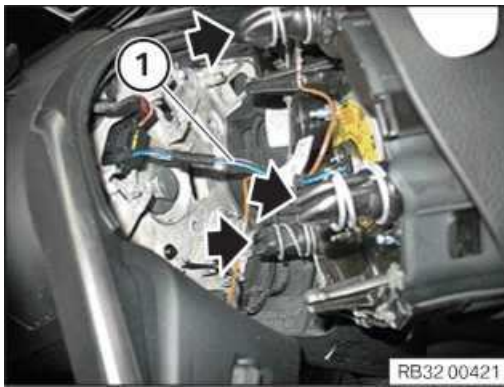
M14	Only for a micro-encapsulated screw: Renew screw.	Tightening torque	62,5 Nm
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- **Connect connectors and lock.**
- Make sure connecting lines are correctly routed.

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



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



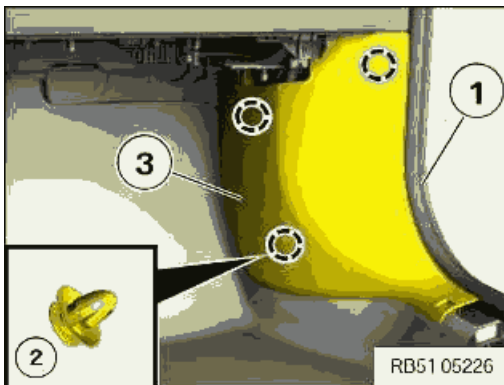
- Before installing the airbag unit, align the wiring harness (1) to the centre so that the latch mechanisms (arrows) are exposed!



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

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

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



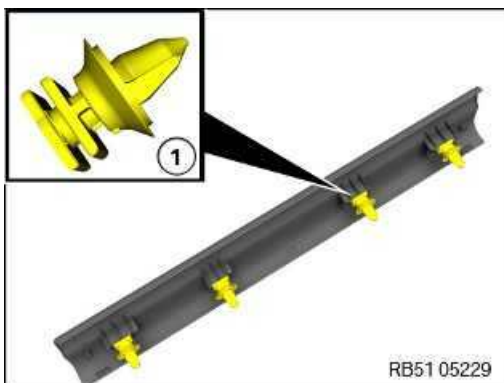
- Check clips (2) for damage, and replace if necessary.
- Feed the side trim panel (3) under the sealing lip of the edge protection (1).
- Clip in the side trim panel (3) with the clips (2).

45 – Install the front right door sill cover strip

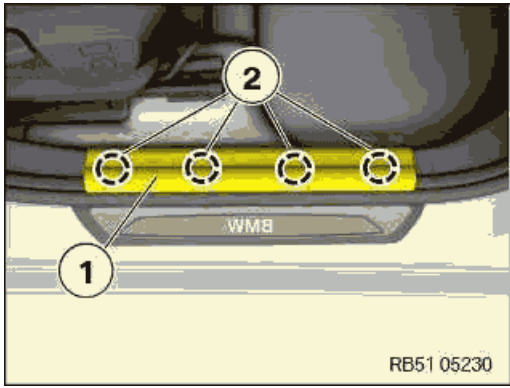


NOTICE

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

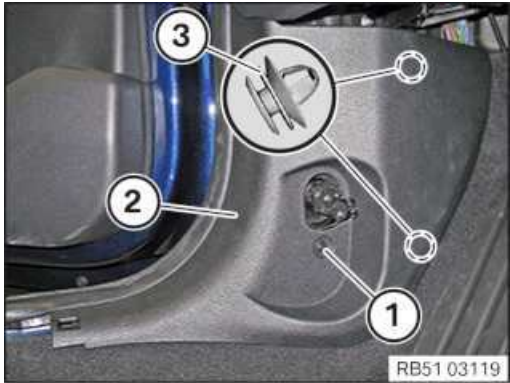


- Check the clips (1) for damage and renew where required.



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

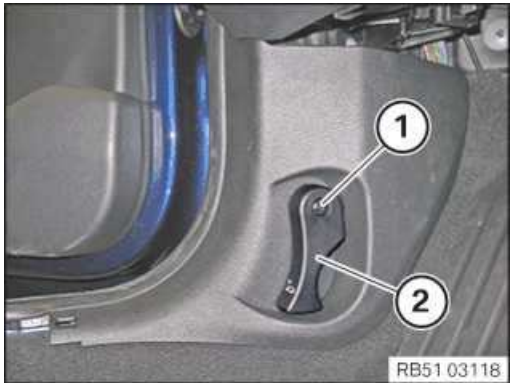
46 – Installing side trim panel in the footwell at A-pillar



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

Side trim panel bottom left to holder

Screw		Tightening torque	3 Nm
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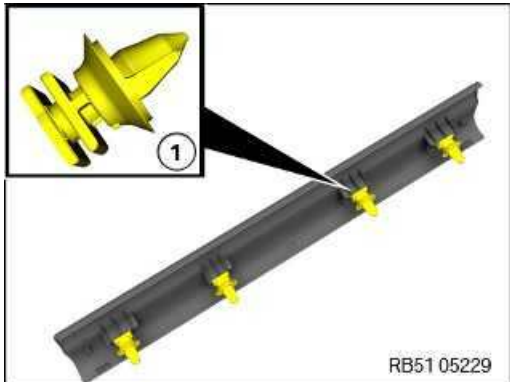


- Install lever for the bonnet release (2).
- Tighten down screw (1).

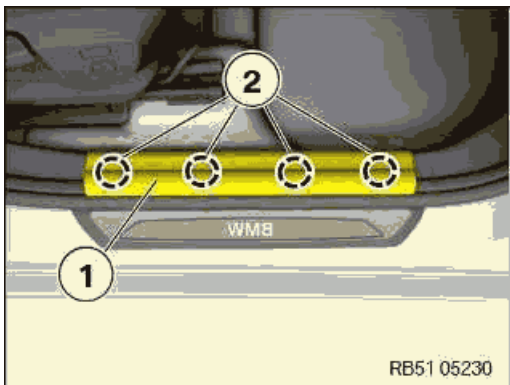
Lever for bonnet release to the holder

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



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



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

48 – Installing the left and right A-pillar trim panels

NOTICE

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

► Install the A-pillar trim panel

WARNING

Airbag unit.

Danger! Life-threatening injuries!

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

WARNING

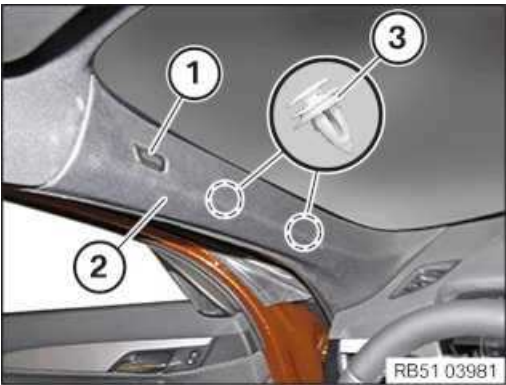
Pyrotechnic components.

Danger! Life-threatening injuries!

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

TECHNICAL INFORMATION

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



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

A-pillar trim panel to body

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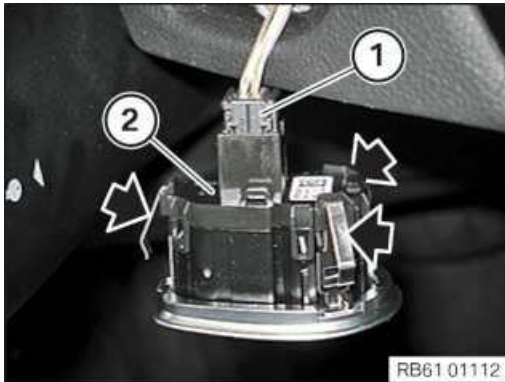
- Clip in the cover (1).

49 – Installing the light operating unit



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

50 – Installing the START-STOP button



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



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

51 – Install decorative strip from instrument panel



TECHNICAL INFORMATION

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



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

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



RISK OF DAMAGE



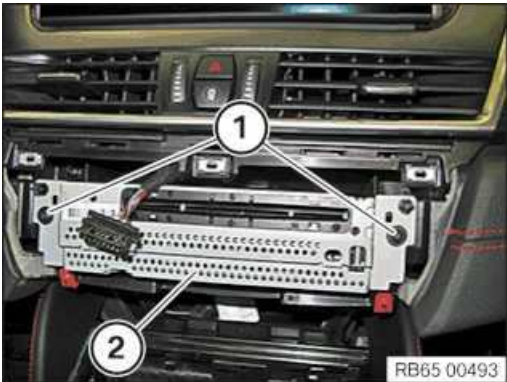
Electrostatic discharge.

Damage to or destruction of electrical components.

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



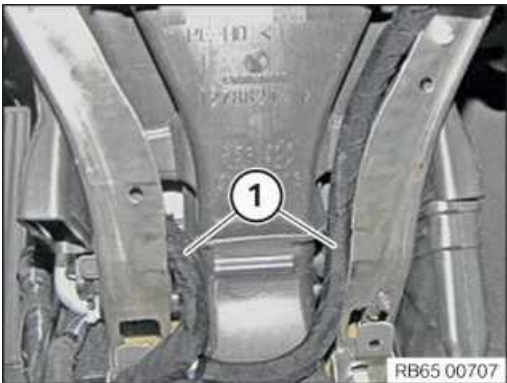
- Position head unit (1).
- Connect and lock all connectors in the marked area.



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

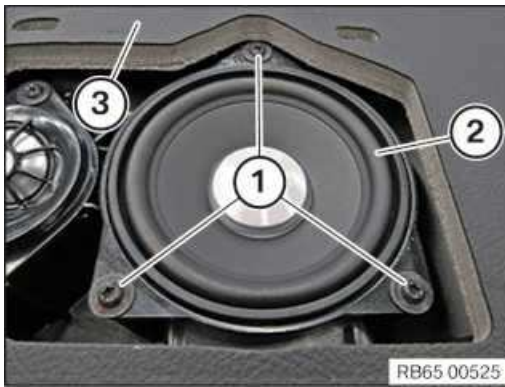
Head unit to instrument panel

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

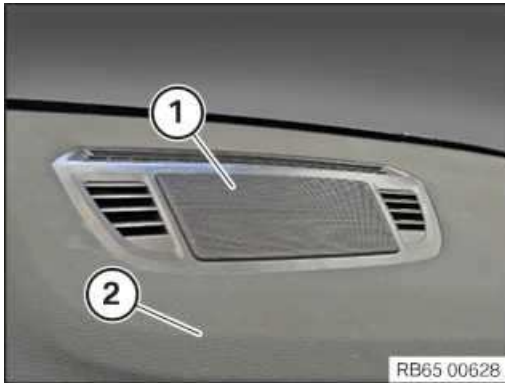
53 – Install the mid-range speakers in the instrument panel



- Connect the connector below it to the mid-range speaker (2).
- Position the mid-range speaker (2) in the instrument panel (3).
- Tighten the screws (1).

Speaker to support / support to instrument panel / support to body

Screw		Tightening torque	1,8 Nm
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- Check the latch mechanisms on the speaker cover (1) for damage and renew them if necessary.
The latch mechanisms must not be missing or faulty.
- Engage the speaker cover (1) correctly into the instrument panel (2).

54 – Installing audio operating unit and air conditioning control panel



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



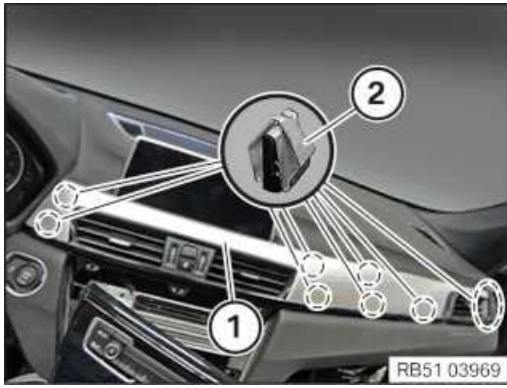
- Correctly position trim (1) and clip it into the instrument panel (2).

55 – Install the finisher on the right instrument panel



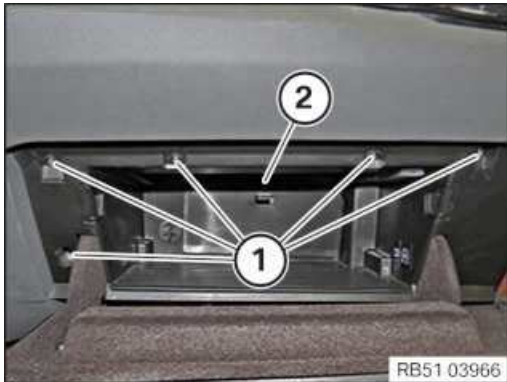
TECHNICAL INFORMATION

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



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

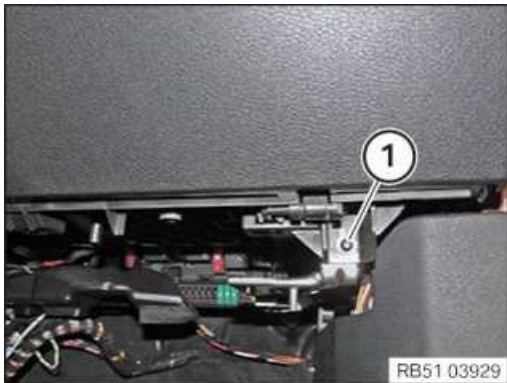
56 – Install right glove box



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

Glove box to instrument panel

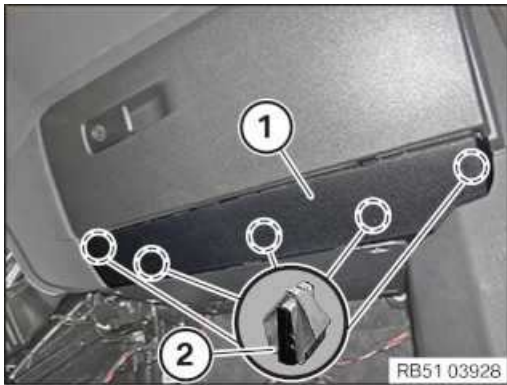
Screw		Tightening torque	1,8 Nm
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- Tighten down screw (1).

Glove box to instrument panel

Screw		Tightening torque	1,8 Nm
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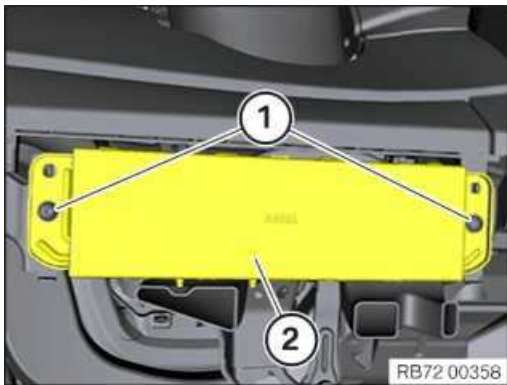
- Install the trim (1) and lock it at the clamps (2).

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TECHNICAL INFORMATION

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

57 – Installing knee airbag



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

Parts: Screw

- Tighten the screws (1).

Knee airbag to body

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



NOTICE

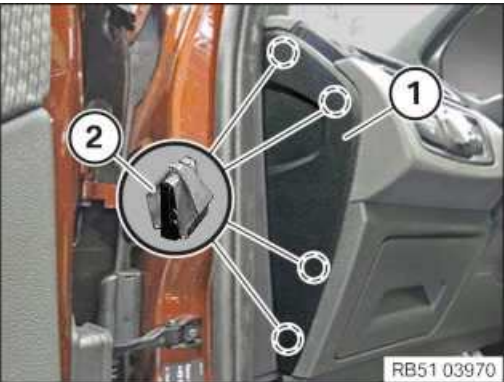
Description is for left component only . Procedure on the right side is identical.

► Install side panel on the instrument panel



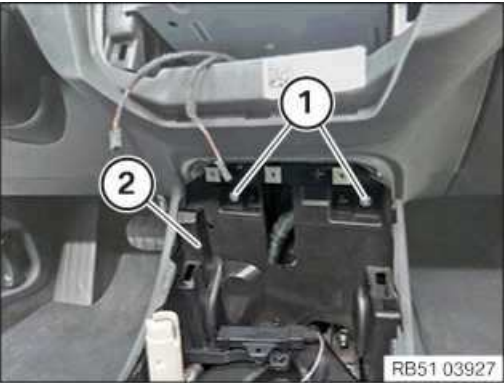
TECHNICAL INFORMATION

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



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

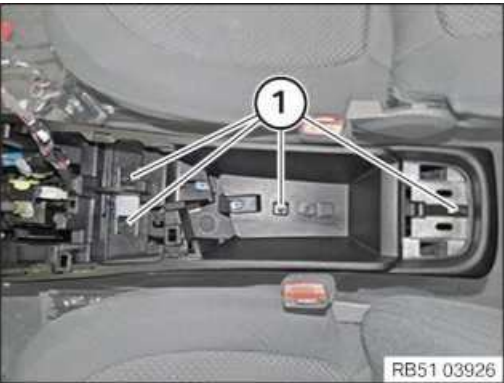
59 – Installing centre console fully with centre armrest



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

Screw connection for centre console

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



- Tighten the screws (1).

Screw connection for centre console

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

► Installing the centre armrest

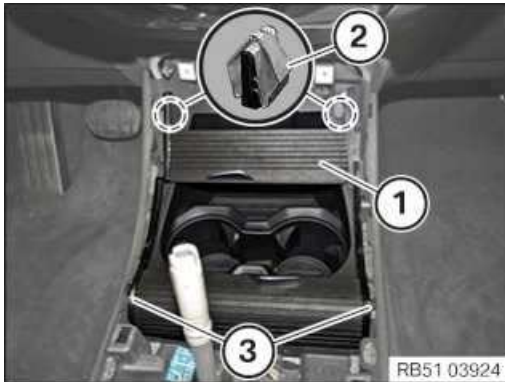


- Install the centre armrest and tighten nuts (1).

Centre armrest to support

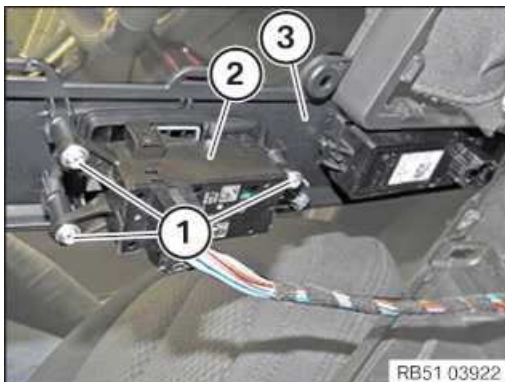
Nut M8		Tightening torque	21,4 Nm
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60 – Installing the front storage compartment



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

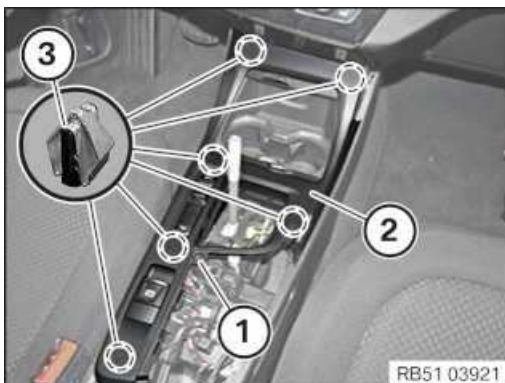
61 – Install the centre console trim



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

Parking brake button

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

Screw connection for centre console

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

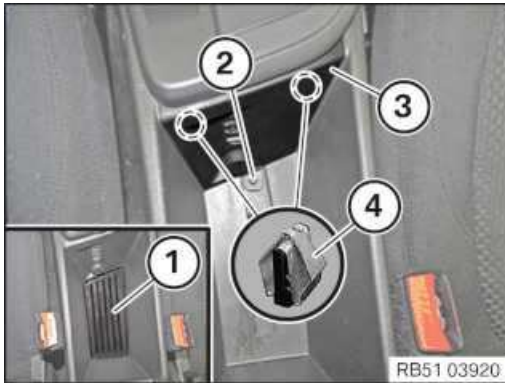
62 – Installing the decorative trim to the centre console



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

Screw connection for centre console

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



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

Trim to centre console

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

- Insert the insert (1).



- Tighten down screws (2).

Screw connection for centre console

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

- Install cover (1) and engage.



- Tighten down screws (2).

Screw connection for centre console

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

- Install cover (1) and engage.

63 – Installing the gearshift lever cover

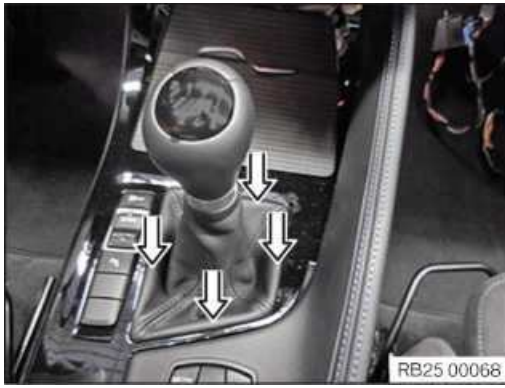


- Place the gearshift lever knob on gearshift lever and align by lightly pressing in the direction of travel.

The anti-twist lock must bite.

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

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



- Clip in gaiter (arrows).

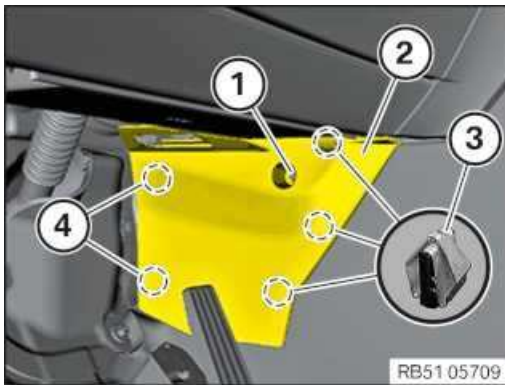
64 – Installing side trim panel for the left and right centre console

► Installing side trim panel for the left centre console



TECHNICAL INFORMATION

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



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

Trim to centre console

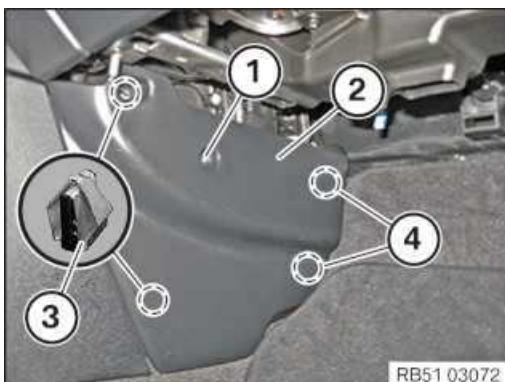
Oval-head screw		Tightening torque	1,8 Nm
-----------------	--	-------------------	--------

► Installing side trim panel for the right centre console



TECHNICAL INFORMATION

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



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

Trim to centre console

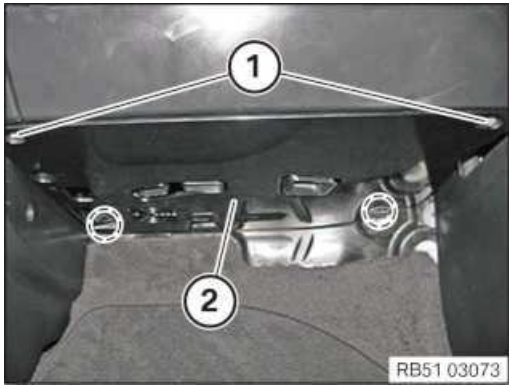
Oval-head screw		Tightening torque	1,8 Nm
-----------------	--	-------------------	--------

65 – Installing the botto right instrument panel trim



TECHNICAL INFORMATION

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

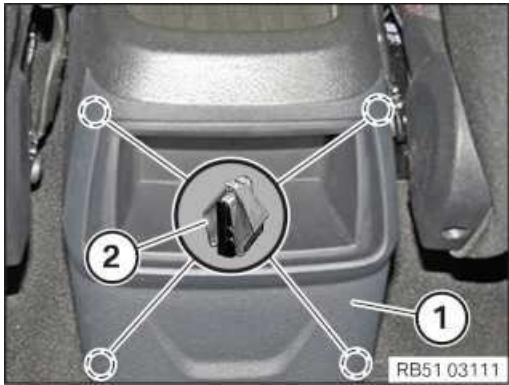


- Install the lower right instrument panel trim (2) and connect and lock the plug connection.
- Insert the lower right instrument panel trim (2) into the front guides.
- Tighten nuts (1).

Bottom left footwell trim to instrument panel

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

66 – Installing the rear centre console trim



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

67 – Disconnecting all battery earth leads



- See additional information.

Additional Information

Overview of Tightening Torques

Head-Up Display to support			Used in step	35
Screw				8 Nm
Instrument panel trim to carrier support			Used in step	36
Screw		Tightening torque		2,4 Nm
Fold-down compartment to instrument panel			Used in step	37
Screw		Tightening torque		1,8 Nm
Instrument cluster to instrument panel			Used in step	38
Screw				1,7 Nm
Steering column switch cluster (SZL) on the steering column			Used in step	39
Screw TS5x20		Tightening torque		3 Nm

Steering wheel to steering columnUsed in step [42](#)

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

Side trim panel bottom left to holderUsed in step [46](#)

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

Lever for bonnet release to the holderUsed in step [46](#)

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

A-pillar trim panel to bodyUsed in step [48](#)

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

Head unit to instrument panelUsed in step [52](#)

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

Speaker to support / support to instrument panel / support to bodyUsed in step [53](#)

Screw		Tightening torque	1,8 Nm
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Glove box to instrument panelUsed in step [56](#)

Screw		Tightening torque	1,8 Nm
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Knee airbag to bodyUsed in step [57](#)

M8	Renew screws.	Tightening torque	8 Nm
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Screw connection for centre consoleUsed in step [59](#) [61](#) [62](#)

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

Centre armrest to supportUsed in step [59](#)

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

Parking brake buttonUsed in step [61](#)

Oval-head screw		Tightening torque	1,5 Nm
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Trim to centre consoleUsed in step [62](#) [64](#)

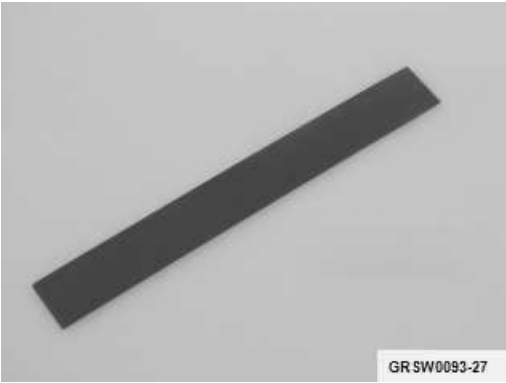
Oval-head screw		Tightening torque	1,8 Nm
-----------------	--	-------------------	--------

Bottom left footwell trim to instrument panelUsed in step [65](#)

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

Overview of Special Tools

0 496 571 (00 9 327) Wedge



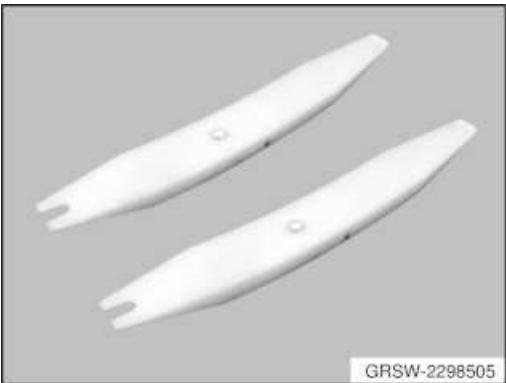
Common		Used in step	6	15
Usage	(Cleaning wedge) From 11/2008 this special tool replaces panel wedge 00 9 323 (different material)			
Included in the tool or work	0 490 527			
Storage location	Individual			
Replaced by				
In connection with				
SI-Number	01 07 09 (530)			

0 496 569 (00 9 325) Wedge



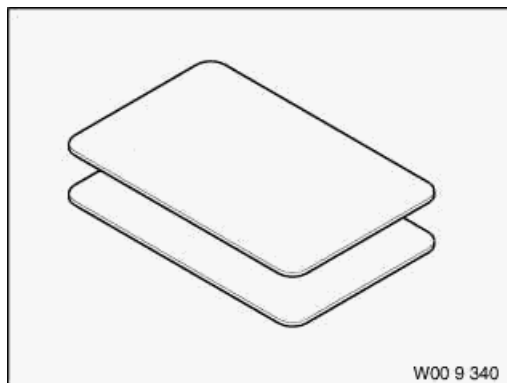
Common		Used in step	7	9	11	13	17	18	22	24
Usage	(Panel wedge) From 11/2008 this special tool replaces panel wedge 00 9 317 (different material)									
Included in the tool or work	0 490 527									
Storage location	Individual									
Replaced by										
In connection with										
SI-Number	41 01 09 (507)									

2 298 505 Wedge



Common		Used in step	14
Usage	Set (delivery of 2 pieces)		
Included in the tool or work			
Storage location	C34		
Replaced by			
In connection with			
SI-Number	01 03 12 (792)		

0 493 687 (00 9 340) Removal aid



Common

Used in step 19

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

Consisting of

Pos	BMW Order number	Replaced by	Designation	In Connection with
1	0 496 289 (00 9 341)		Removal aid Only available as a set (2 tools) under 00 9 340 (= 83 30 0 493 687).	

2 298 504 Wedge



Common

Used in step 28

Usage	Wedge with angled lug
Included in the tool or work	
Storage location	C34
Replaced by	
In connection with	
SI-Number	01 03 12 (792)

Links

General repair instructions

Used in step

72 00 ... Safety regulations for handling components with gas generators	21 48
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Repair instructions

Used in step

61 20 900 Disconnecting and connecting battery earth lead	1 67
61 20 900 Disconnecting and connecting battery earth lead	1 67
61 20 900 Disconnecting and connecting battery earth lead	1 67
61 20 900 Disconnecting and connecting battery earth lead	1 67
61 20 900 Disconnecting and connecting battery earth lead	1 67
61 20 900 Disconnecting and connecting battery earth lead	1 67
61 20 900 Disconnecting and connecting the battery earth lead (all battery earth leads)	1 67
61 20 900 Disconnecting and connecting the battery earth lead (all battery earth leads)	1 67
61 20 900 Disconnecting and connecting battery earth lead	1 67
61 20 900 Disconnecting and connecting the battery earth lead (all battery earth leads)	1 67
61 20 900 Disconnect and connect battery earth lead (Plug-in Hybrid Electric Vehicle)	1 67
61 20 900 Disconnecting and connecting battery earth lead	1 67

61 20 900 Disconnecting and connecting battery earth lead	1 67
61 20 900 Disconnecting and connecting battery earth lead	1 67
61 20 900 Disconnecting and connecting battery earth lead	1 67
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61 20 900 Disconnecting and connecting battery earth lead	1 67
61 20 900 Disconnecting and connecting battery earth lead	1 67
61 20 900 Disconnecting and connecting battery earth lead	1 67
61 20 900 Disconnecting and connecting the battery earth lead (all battery earth leads)	1 67
61 20 900 Disconnecting and connecting battery earth lead	1 67
61 20 900 Disconnecting and connecting battery earth lead	1 67
61 20 900 Disconnecting and connecting battery earth lead	1 67
61 20 900 Disconnecting and connecting battery earth lead	1 67
61 20 900 Disconnecting and connecting battery earth lead	1 67
61 20 900 Disconnecting and connecting battery earth lead	1 67
61 20 900 Disconnecting and connecting battery earth lead	1 67
61 35 ... Notes on ESD protection (Electro Static Discharge)	
72 12 ... Unlocking/locking airbag plug connections	33 36

62 30 005 Removing and installing/replacing trim for Head-Up Display

1 – Removing trim for the Head-Up Display

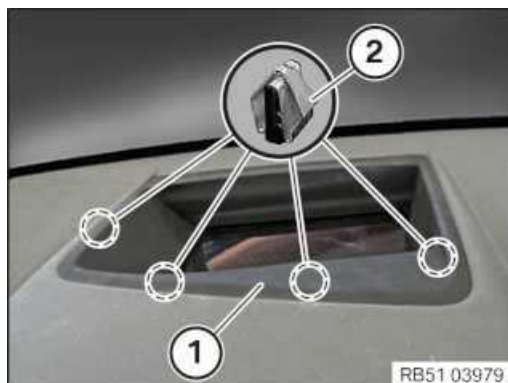


RISK OF DAMAGE

Scratches.

Tools and sharp-edged components can cause scratches.

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



- Release trim (1) for the Head-Up Display from retaining clips (2) with the special tool **0 496 569 (00 9 325)** and remove it.

2 – Installing the trim for the Head-Up Display



RISK OF DAMAGE

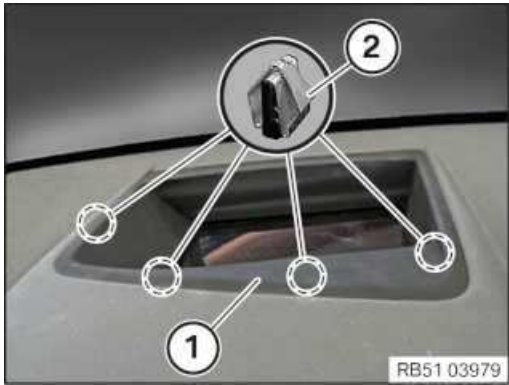
Scratches.

Tools and sharp-edged components can cause scratches.

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



- Check clamps (2) on trim (1) for the Head-Up Display for damage and renew them if necessary.



- Position trim (1) for the Head-Up Display on the instrument panel trim and clip it into clamps (2).

Additional Information

Overview of Special Tools

0 496 569 (00 9 325) Wedge



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

62 30 515 Replace Head-Up Display (after vehicle diagnosis) (AW specification with programming/encoding, see 61 00 ...)



RISK OF DAMAGE

Scratches.

Tools and sharp-edged components can cause scratches.

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

PRELIMINARY WORK

1 – Disconnecting all battery earth leads



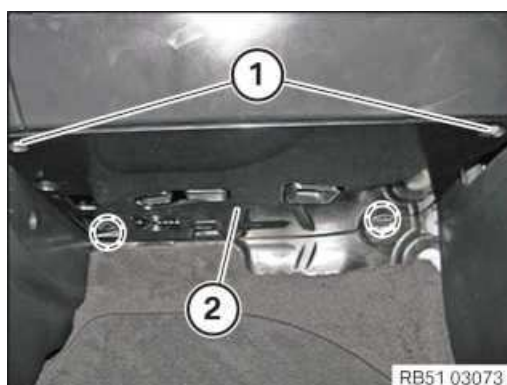
- See additional information.

2 – Adjust the steering column position



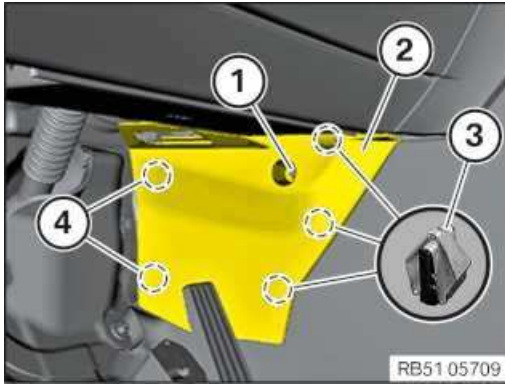
- Adjust the length of the steering column to the maximum length in the direction of arrow (1).
- Move the steering column to the lowest steering column position in the direction of arrow (2).

3 – Removing the instrument panel trim at bottom right



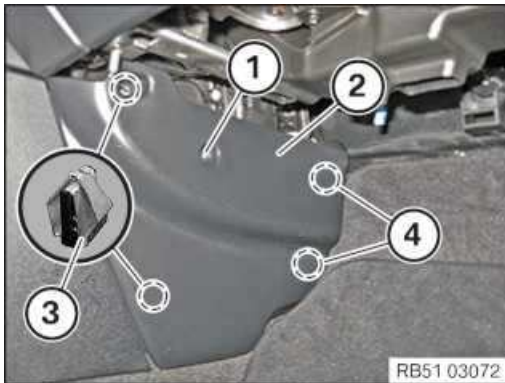
- Loosen nuts (1).
- Lower the instrument panel trim slightly at the bottom right (2) and disconnect the plug connection behind it.
- Guide the instrument panel trim at the bottom right (2) from the front guides and remove it.

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



► Removing side trim panel for the left centre console

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



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

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

5 – Remove gearshift lever cover



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



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

6 – Remove the decorative trim from the centre console



RISK OF DAMAGE

Scratches.

Tools and sharp-edged components can cause scratches.

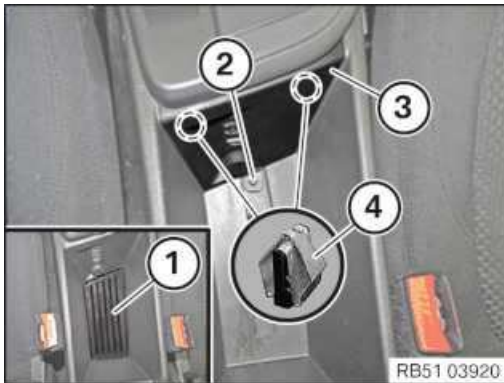
- Protect working area.
- Handle tools and components carefully.



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



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

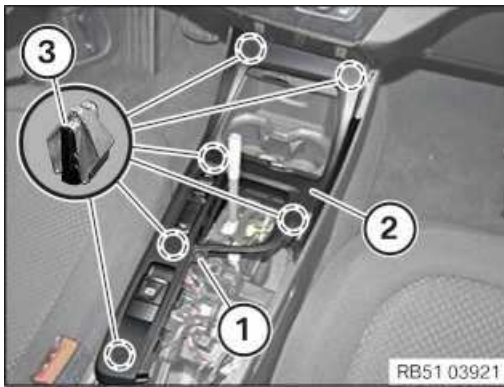


- Remove insert (1) with the special tool **0 496 571 (00 9 327)**.
- Loosen screw (2).
- Lever out trim (3) from clamps (4) towards the rear with the special tool **0 496 571 (00 9 327)**.
- Unfasten plug connection.
- Remove the trim (3).

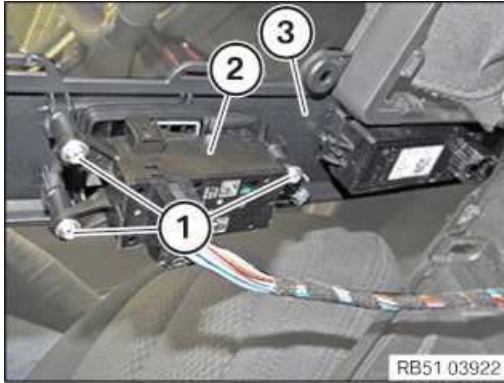


- Loosen screw (1).
- Remove decorative trim (2) and disconnect all the plug connections.
- Remove decorative trim (2).

7 – Remove the centre console trim



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



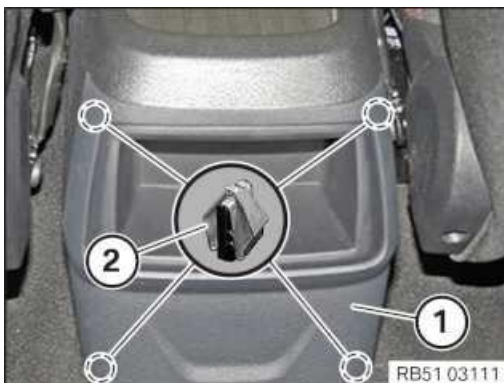
- Loosen screws (1).
- Remove parking brake button (2) from centre console trim (3) and place it down.
The plug connection must not be disconnected.
- Disconnect the remaining plug connections and remove centre console trim (3).

8 – Removing the front storage compartment



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

9 – Removing the rear centre console trim



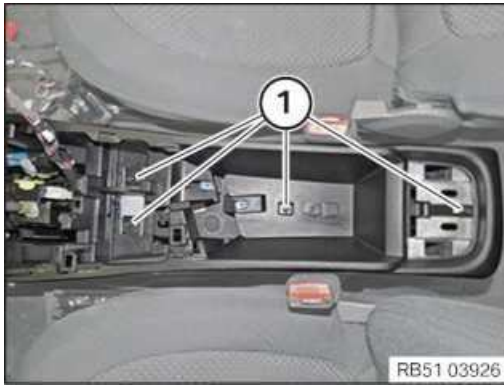
- Lever out and remove centre console trim (1) with the special tool **0 496 569 (00 9 325)** from the clamps (2).

10 – Removing centre console fully with centre armrest

- Removing the centre armrest



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



- Loosen screws (1).



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

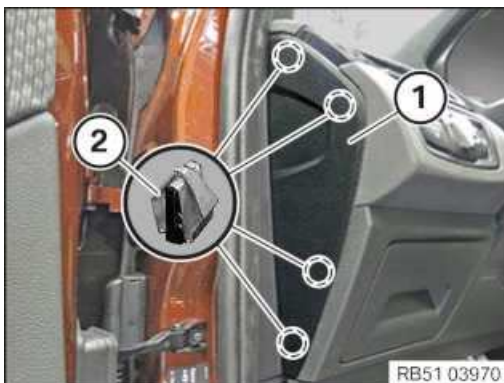
11 – Remove the side panel on the left and right of the instrument panel



NOTICE

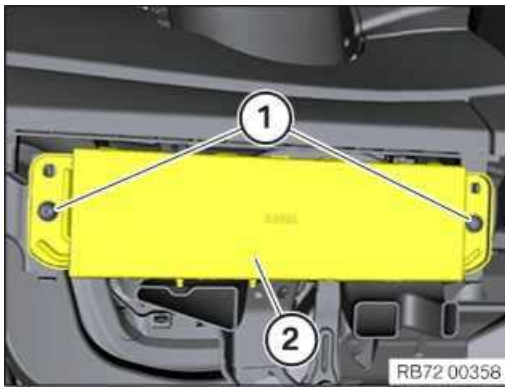
Description is for left component only. Procedure on the right side is identical.

► Remove side panel on the instrument panel



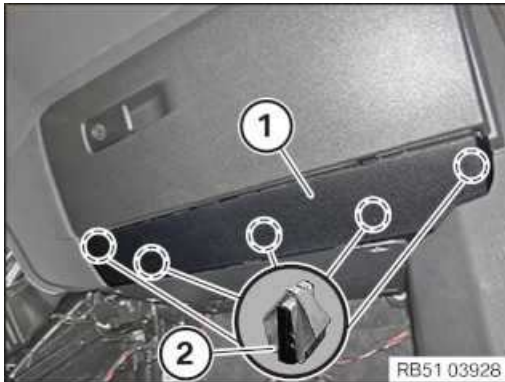
- Lift out the side panel (1) with the special tool **0 496 569 (00 9 325)** from the clamps (2) and slide it out to the rear at an angle.

12 – Removing knee airbag

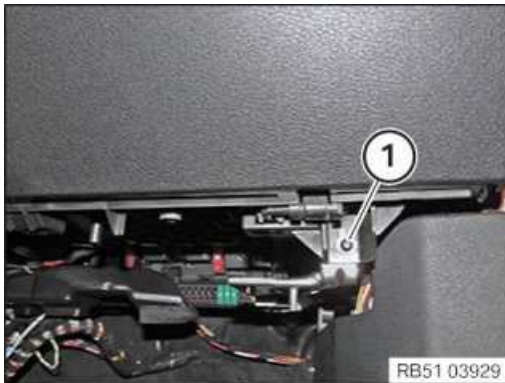


- Unlock plug connection on knee airbag (2) and disconnect.
- Loosen screws (1).
- Remove knee airbag (2).

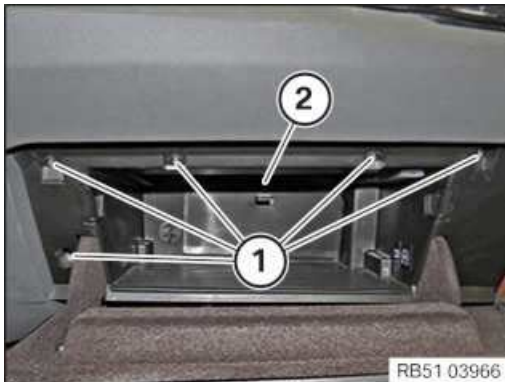
13 – Remove right glove box



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



- Loosen screw (1).

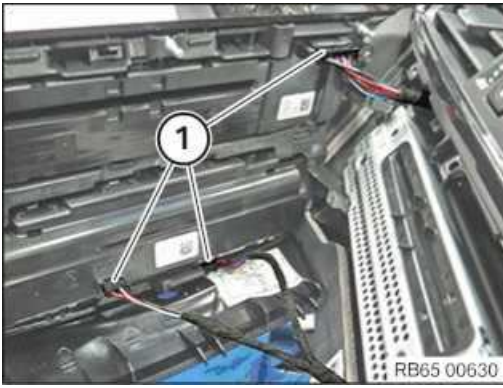


- Loosen screws (1).
- Remove glove box (2) to the inside and disconnect associated plug connections.

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

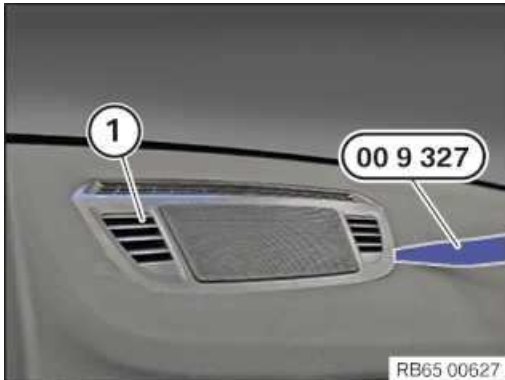


- Unclip the trim (1) using special tool **2 298 505**.

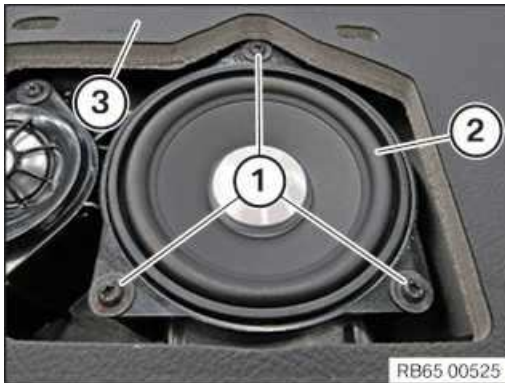


- Unlock plug connection (1) and disconnect.
- Remove the audio operating unit and the air conditioning control panel.

15 – Remove the mid-range speaker from the instrument panel



- Unclip the speaker cover (1) using the special tool **0 496 571 (00 9 327)** and remove upwards.



- Loosen screws (1).
- Disconnect plug connection underneath.
- Guide the mid-range speaker (2) out of the instrument panel (3) and remove it.

16 – Remove Head Unit High (HU-H)



RISK OF DAMAGE



Electrostatic discharge.

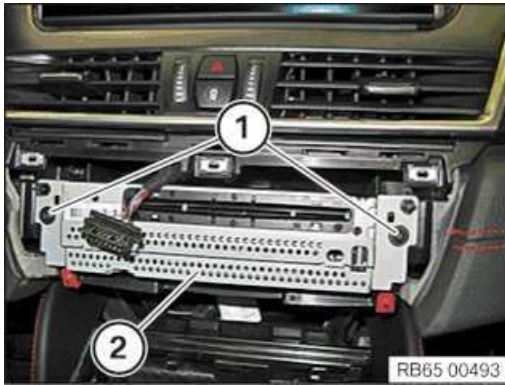
Damage to or destruction of electrical components.

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



- Remove the wiring harness (1).

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

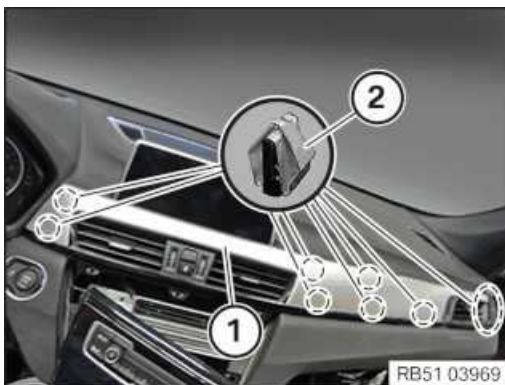


- Loosen screws (1).
- Pull out the head unit (2) a bit.



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

17 – Remove the finisher on the right instrument panel



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

18 – Remove decorative strip from instrument panel

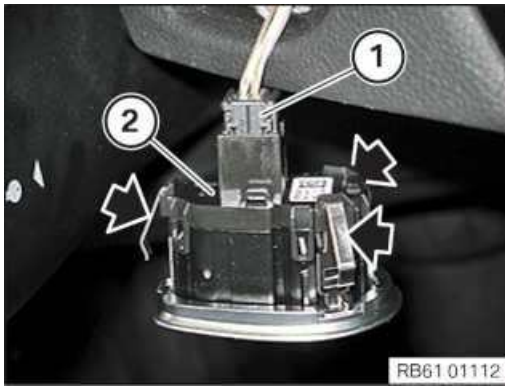


- Release the decorative strip (1) using the special tool **0 496 569 (00 9 325)** from the clamps (2) and remove.

19 – Removing the START-STOP button



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



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

20 – Removing the light operating unit



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

21 – Removing the left and right A-pillar trim panels



NOTICE

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

► Remove the A-pillar trim panel



WARNING

Airbag unit.

Danger! Life-threatening injuries!

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



WARNING

Pyrotechnic components.

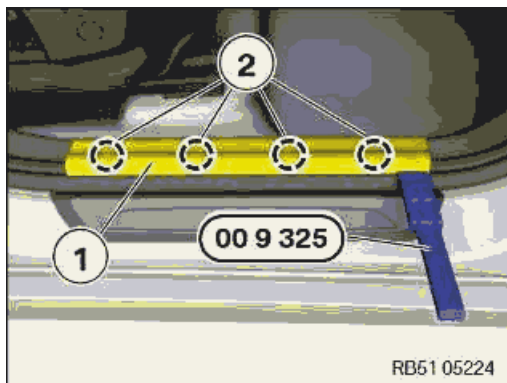
Danger! Life-threatening injuries!

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

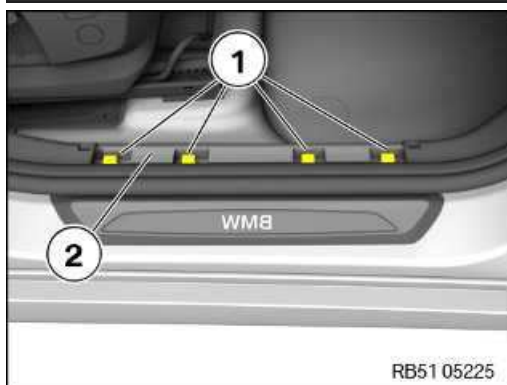


- Unclip cover (1) and unscrew the screw below it.
- Release the A-pillar trim panel (2) from the clips (3) and guide out upwards.

22 – Remove front entrance cover strip

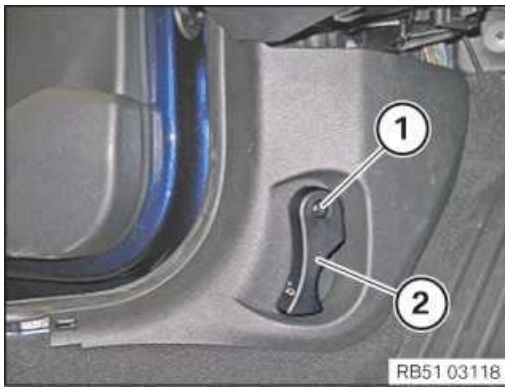


- Unclip the door sill cover strip (1) at the clips **0 496 569 (00 9 325)** using special tool (2) starting from the rear.

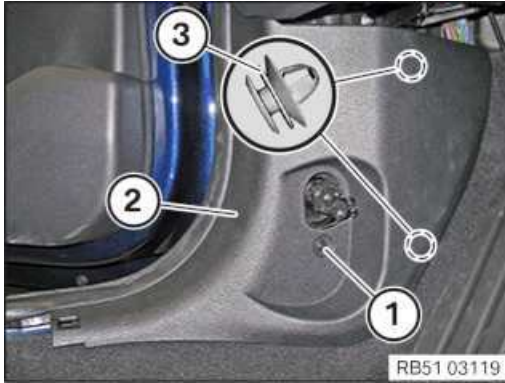


- If applicable, loosen clips (1) from floor panel (2) and mount on the door sill cover strip.

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



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



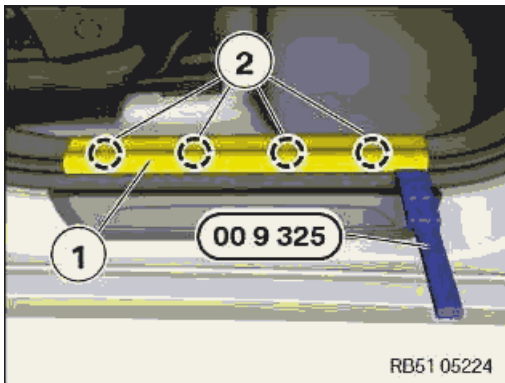
- Loosen screw (1).
- Unclip side trim panel (2) from the clips (3) and remove.

24 – Remove front right door sill cover strip

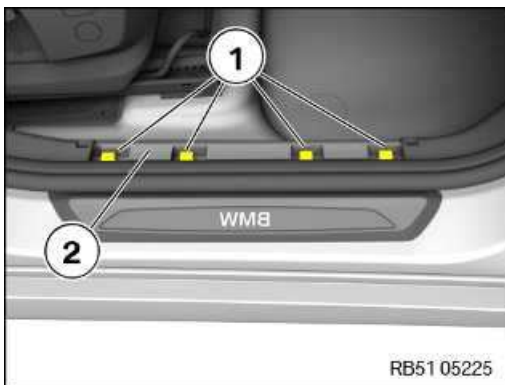


NOTICE

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

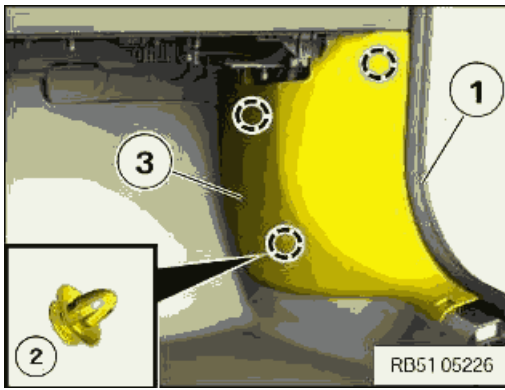


- Unclip the door sill cover strip (1) at the clips **0 496 569 (00 9 325)** using special tool (2) starting from the rear.



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

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



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

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



WARNING

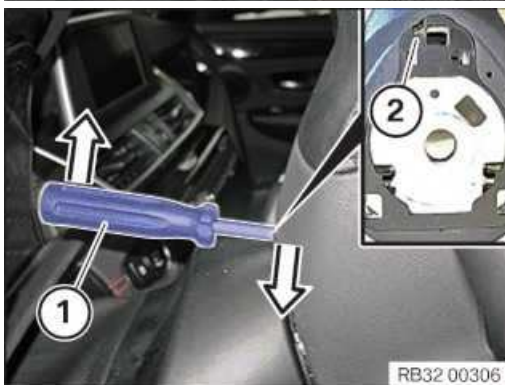
Airbag unit.

Danger! Life-threatening injuries!

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



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

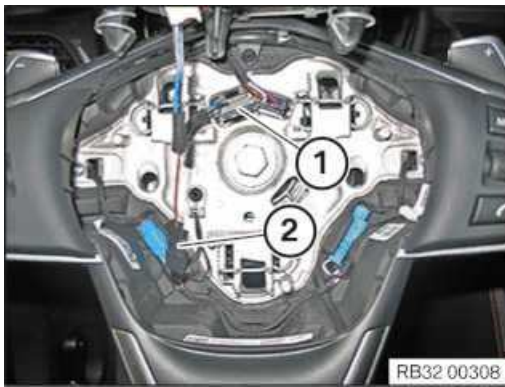


- Insert the slotted screwdriver (1) into the elongated hole on the rear side on the steering wheel.
- Push the slotted screwdriver (1) up and thereby push the retaining spring down (2).

The airbag unit is unlocked.



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



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

27 – Removing steering wheel/sports steering wheel



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

28 – Removing steering column shroud upper section



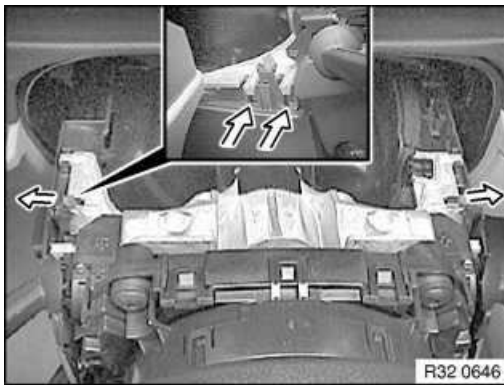
NOTICE

Perform the operations on the left and right side.

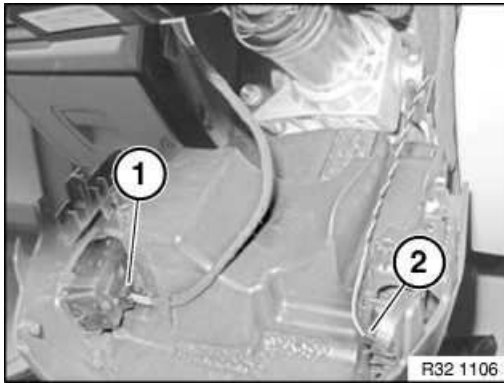
- Unclip the steering column shroud upper section (1) with the special tool **2 298 504** in area (2).
- Fold the steering column shroud upper section (1) up.
- Release the gap cover of the steering column (1) from the brackets (arrows) of the steering column shroud upper section.
- Remove steering column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



29 – Removing steering column shroud lower section

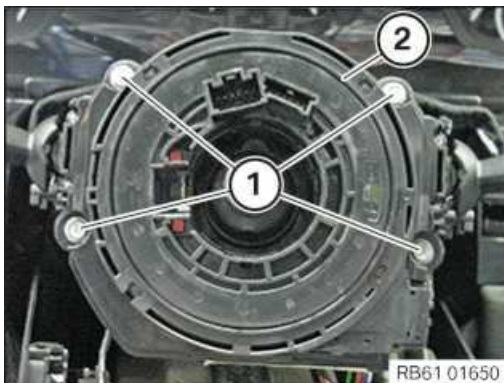


- Press the retaining lugs (arrows) a little outwards and unclip the steering column shroud lower section in a downward direction.

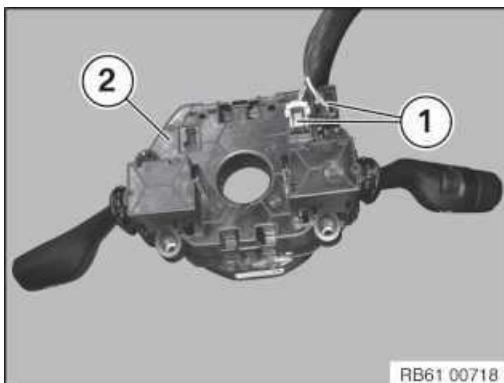


- Tilt steering column shroud lower section in downward direction.
- Unlock and disconnect the plug connections (1) and (2).
- Remove steering column shroud lower section.

30 – Removing the steering column switch cluster (SZL)



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



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

31 – Removing the instrument cluster (KOMBI)

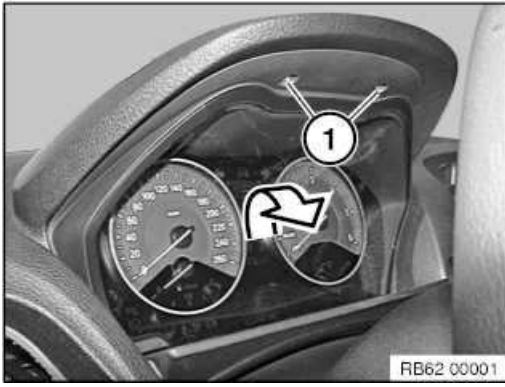


RISK OF DAMAGE

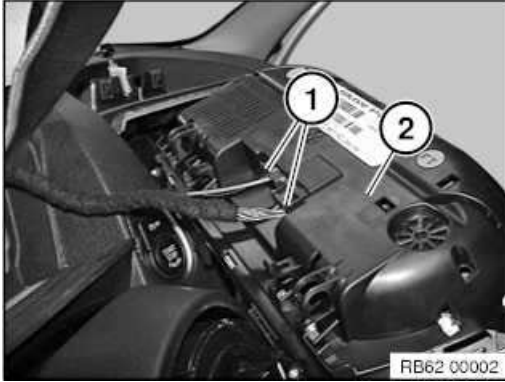
Scratches.

Tools and sharp-edged components can cause scratches.

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

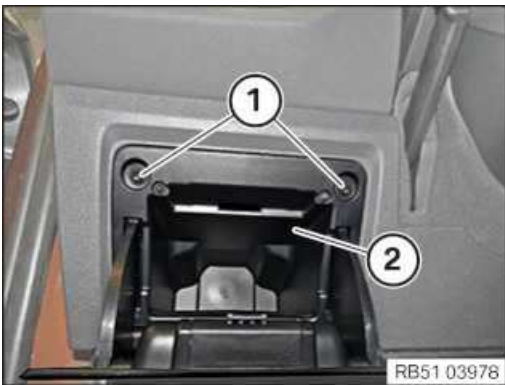


- Loosen both screws (1).
- Thread out instrument cluster (KOMBI) in direction of arrow.



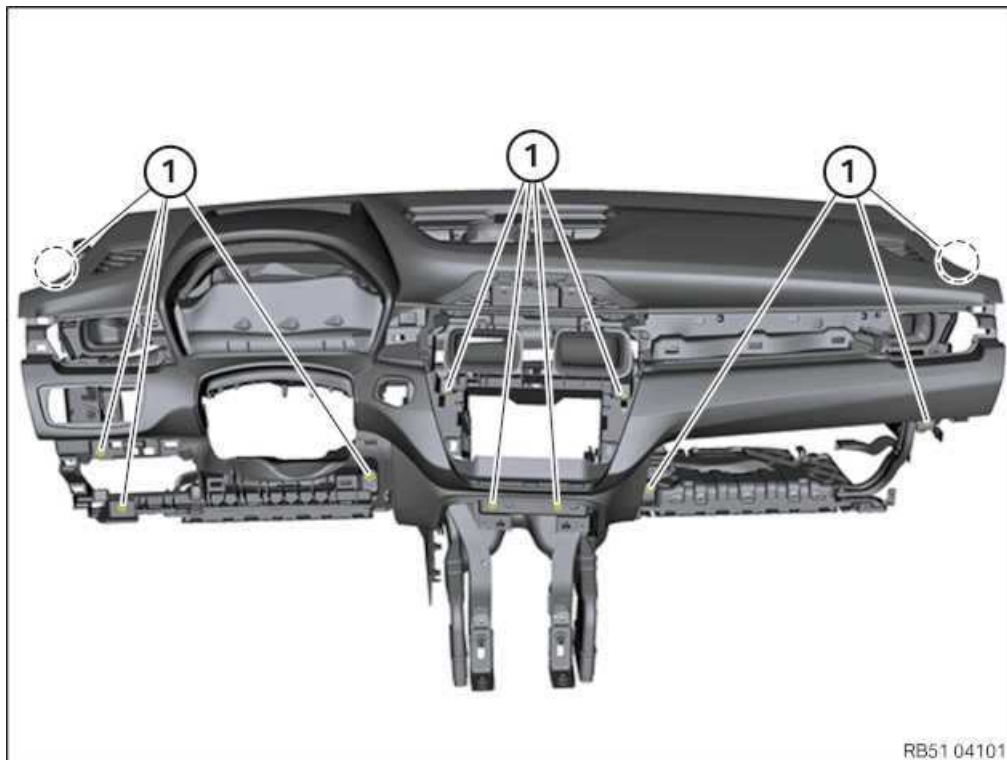
- Disconnect all plug connections (1).
- Removing the instrument cluster (KOMBI) (2).

32 – Removing the left fold-down compartment



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

33 – Remove instrument panel trim



i

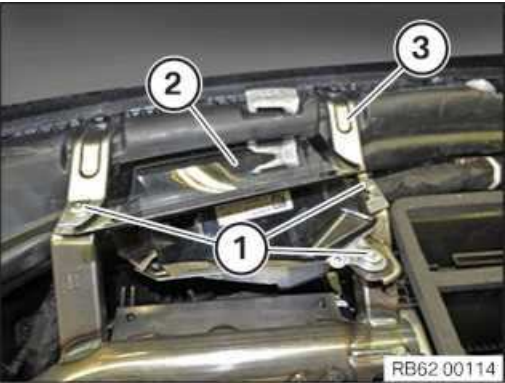
TECHNICAL INFORMATION

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

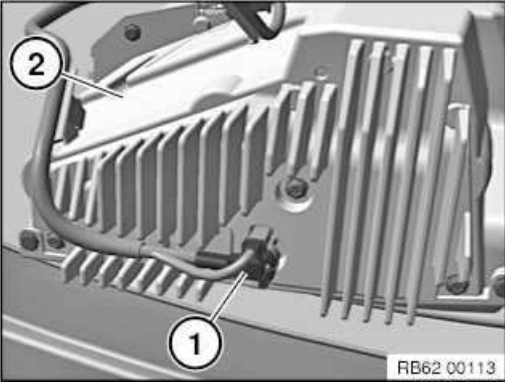
For additional information see: 72 00 ... Notes on unlocking/locking airbag plug connections

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

34 – Removing the Head-Up Display

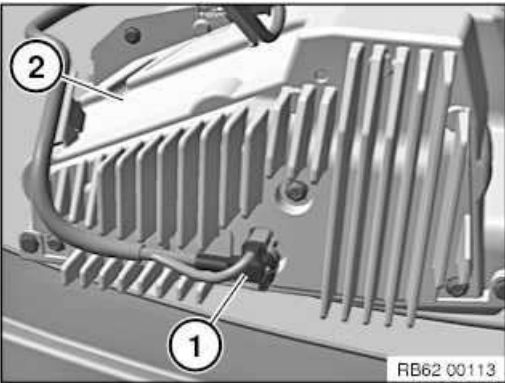


- Loosen screws (1).
- Carefully feed out the head-up display (2) from the support (3) towards the top.

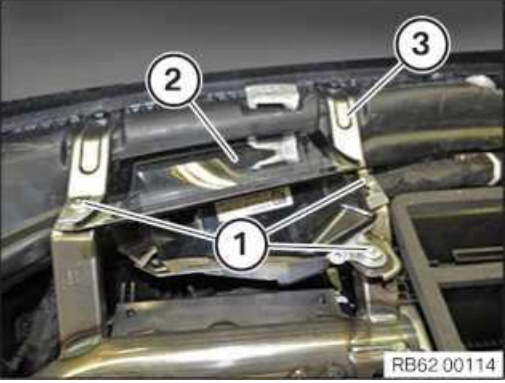


- Unlock and disconnect the plug connection (1) on the underside of the Head-Up Display (2).
- Remove the Head-Up Display (2).

35 – Installing the head-up display



- Connect and lock the connector (1) on the bottom of the Head-Up Display (2).



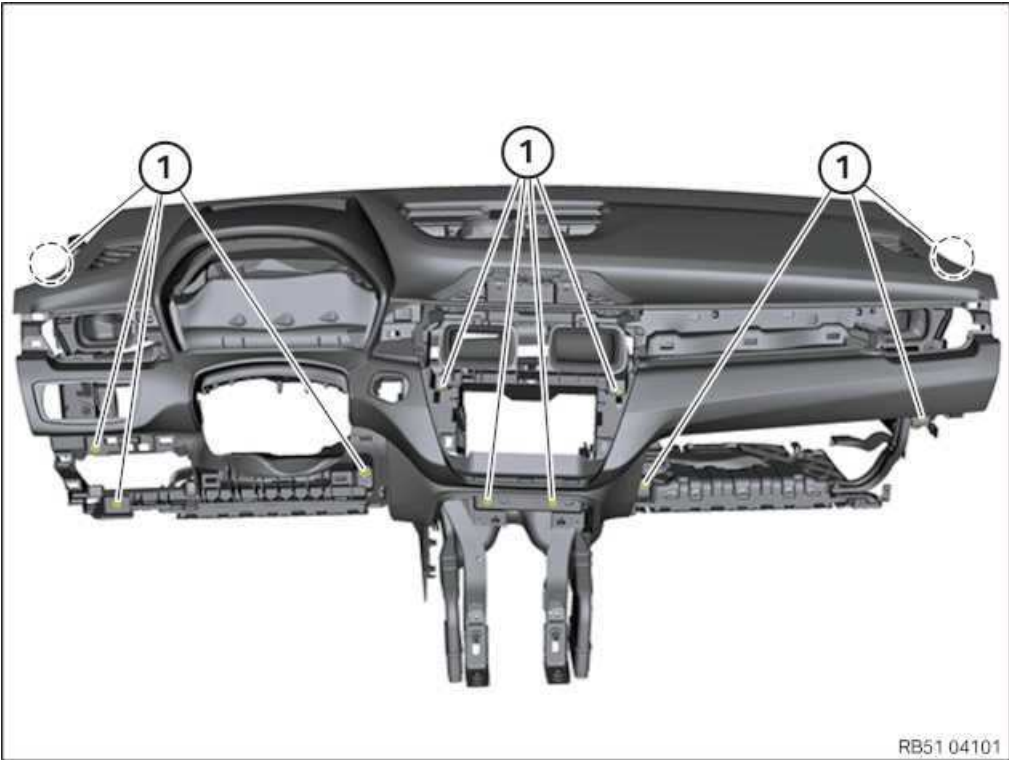
- Position the Head-Up Display (2) on the support (3) correctly.
- Tighten the screws (1).

Head-Up Display to support

Screw			8 Nm
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POSTPROCESSES

36 – Install instrument panel trim



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TECHNICAL INFORMATION

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

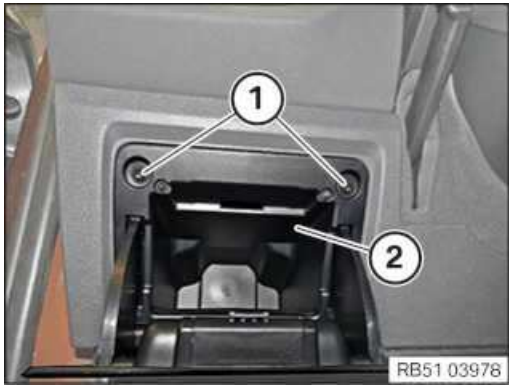
- Guide the instrument panel trim through the door aperture with the help of an auxiliary person.
- Install the instrument panel trim, and while doing so secure the wiring harness and connect and lock all the connectors.
- Connect and lock the plug connection of the front passenger airbag.
- Make sure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

Instrument panel trim to carrier support

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

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



- Tighten the screws (1).

Fold-down compartment to instrument panel

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

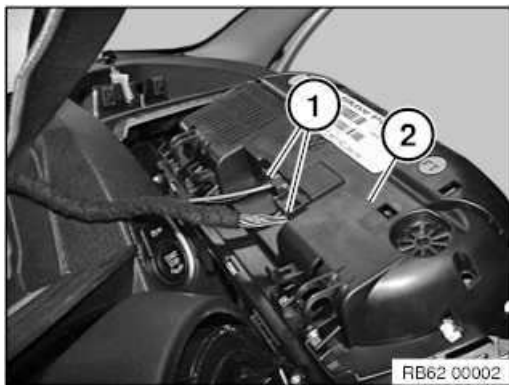


RISK OF DAMAGE

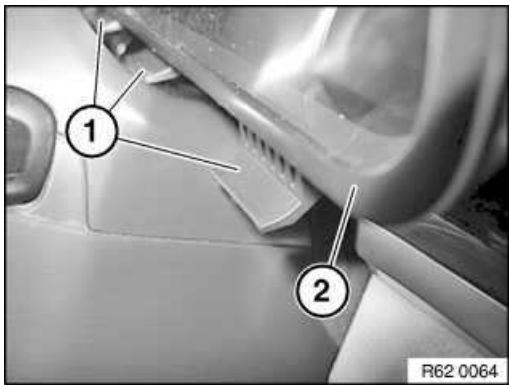
Scratches.

Tools and sharp-edged components can cause scratches.

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



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



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



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

Instrument cluster to instrument panel

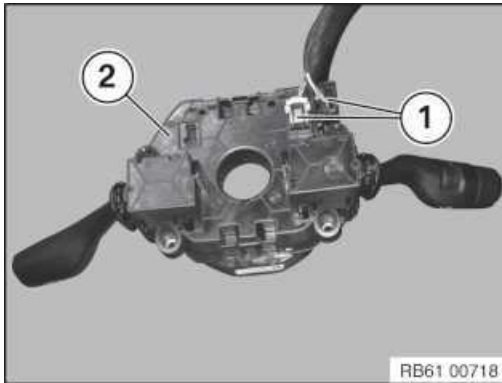
Screw			1,7 Nm
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39 – Installing the steering column switch cluster (SZL)



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

The broken-off piece of (3) the transportation retainer (1) remains in the steering column switch cluster (SZL) (2).



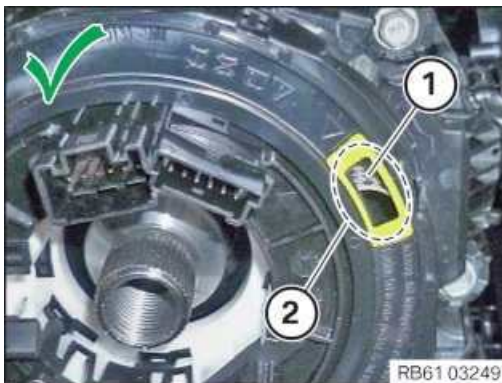
- Connect the connector (1) with the steering column switch cluster (SZL) (2).

► Check the neutral position of the clock spring

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TECHNICAL INFORMATION

Different variants may be installed depending on the vehicle equipment.



Check

- **Version A:**

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

Result

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

Measure

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

Check



• **Version B:**

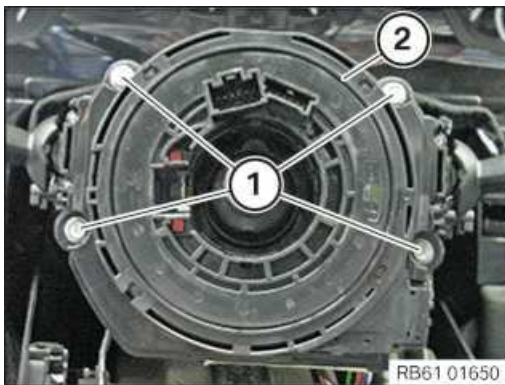
Check the mark (1) on the coil spring in the inspection glass (2).

Result

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

Measure

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

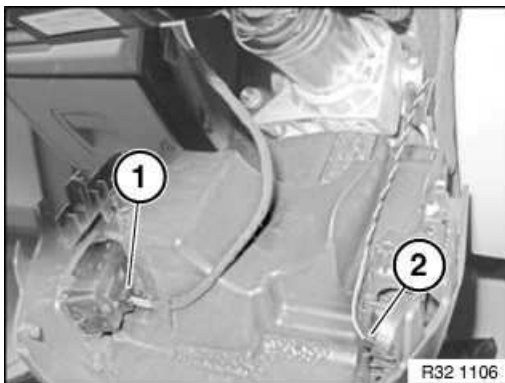


- Position the steering column switch cluster (SZL) (2).
- Tighten the screws (1).

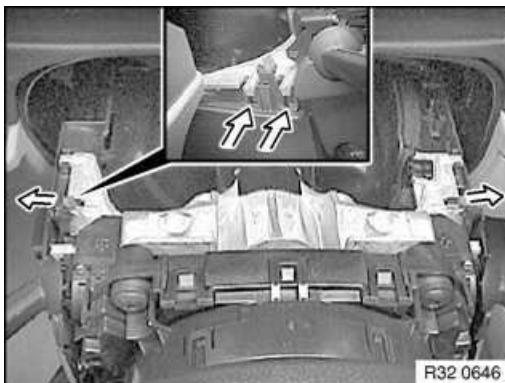
Steering column switch cluster (SZL) on the steering column

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



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

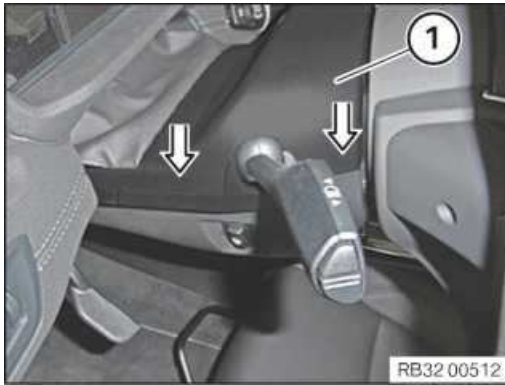


- Position the steering column shroud lower section with the retaining lugs (arrows).
- Press steering column shroud lower section completely towards the top until the retaining lugs (arrows) engage.

41 – Fit steering column shroud upper section



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



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



NOTICE

Perform the operations on the left and right side.

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

42 – Installing the steering wheel/sports steering wheel

► Check the neutral position of the clock spring

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

Check

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



Result

» The mark (1) is not visible.

Measure

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

Check



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

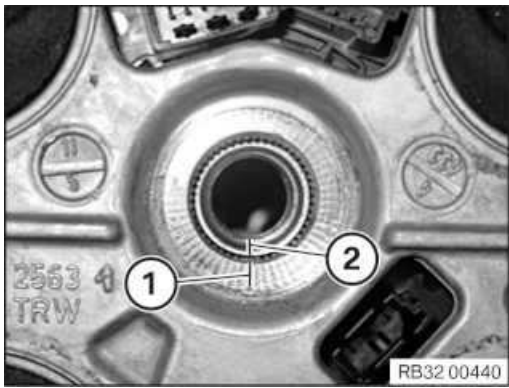
Result

» Screw (1) is micro-encapsulated.

Measure

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

Parts: Screw



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



- Tighten down screw (1).

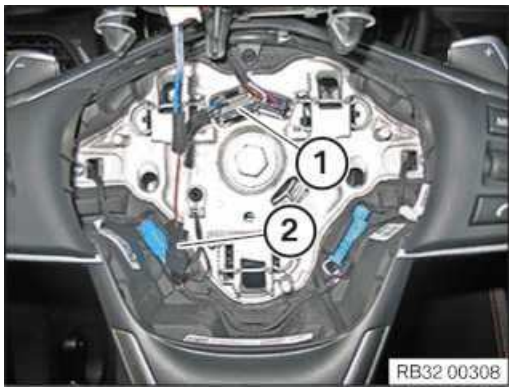
Steering wheel to steering column

M14	Only for a micro-encapsulated screw: Renew screw.	Tightening torque	62,5 Nm
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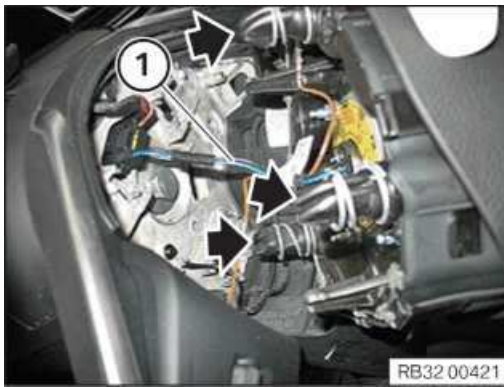
- **Connect connectors and lock.**

Make sure connecting lines are correctly routed.

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



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



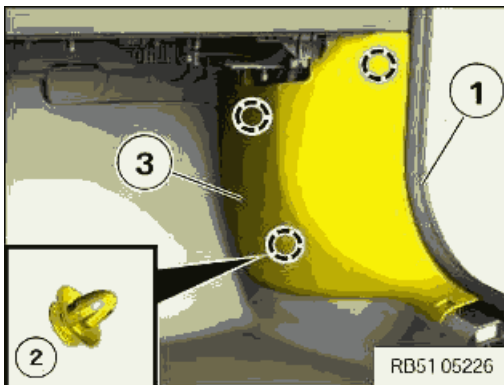
- Before installing the airbag unit, align the wiring harness (1) to the centre so that the latch mechanisms (arrows) are exposed!



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

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

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



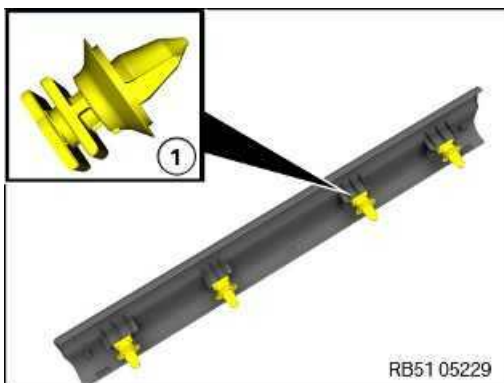
- Check clips (2) for damage, and replace if necessary.
- Feed the side trim panel (3) under the sealing lip of the edge protection (1).
- Clip in the side trim panel (3) with the clips (2).

45 – Install the front right door sill cover strip

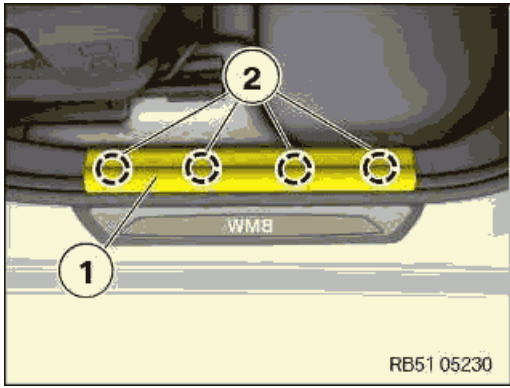


NOTICE

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

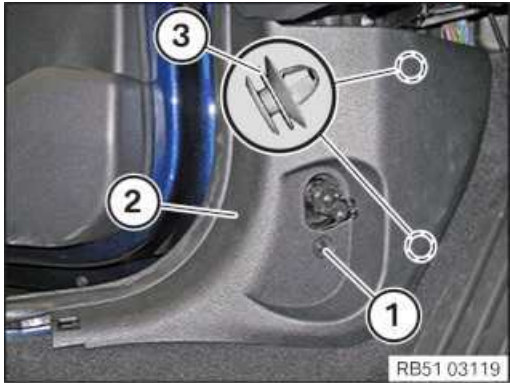


- Check the clips (1) for damage and renew where required.



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

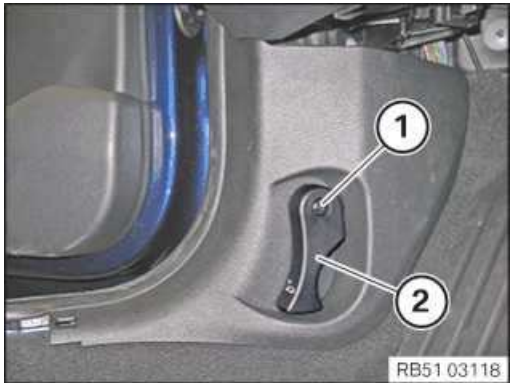
46 – Installing side trim panel in the footwell at A-pillar



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

Side trim panel bottom left to holder

Screw		Tightening torque	3 Nm
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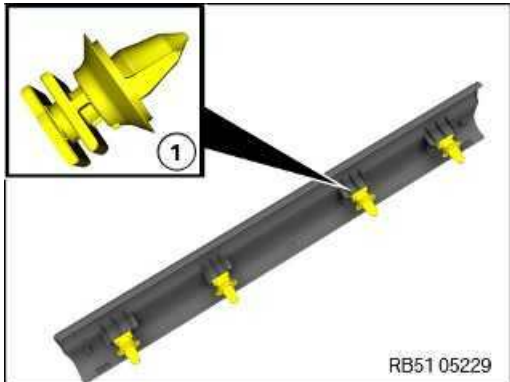


- Install lever for the bonnet release (2).
- Tighten down screw (1).

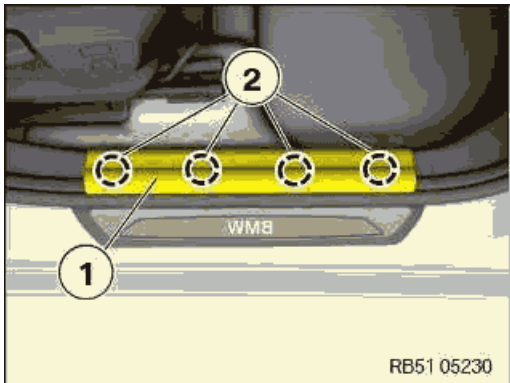
Lever for bonnet release to the holder

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



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



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

48 – Installing the left and right A-pillar trim panels

NOTICE

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

► Install the A-pillar trim panel

WARNING

Airbag unit.

Danger! Life-threatening injuries!

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

WARNING

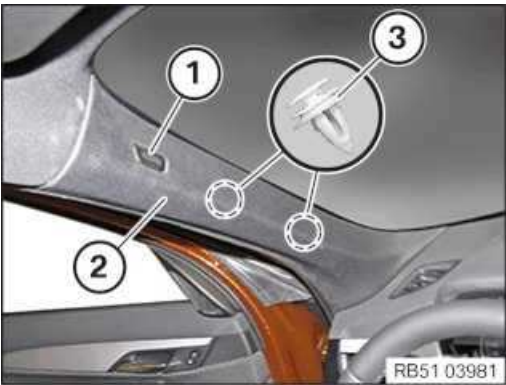
Pyrotechnic components.

Danger! Life-threatening injuries!

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

TECHNICAL INFORMATION

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



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

A-pillar trim panel to body

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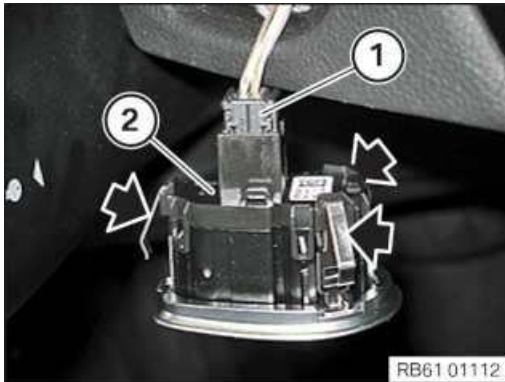
- Clip in the cover (1).

49 – Installing the light operating unit



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

50 – Installing the START-STOP button



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



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

51 – Install decorative strip from instrument panel



TECHNICAL INFORMATION

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



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

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



RISK OF DAMAGE



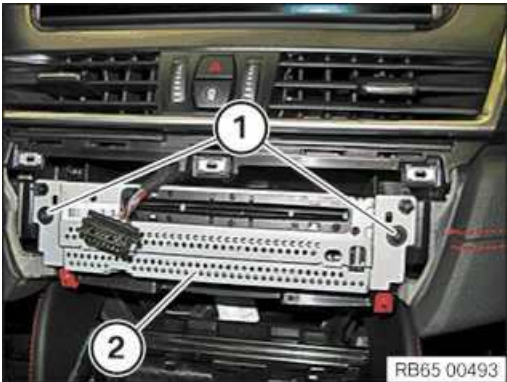
Electrostatic discharge.

Damage to or destruction of electrical components.

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



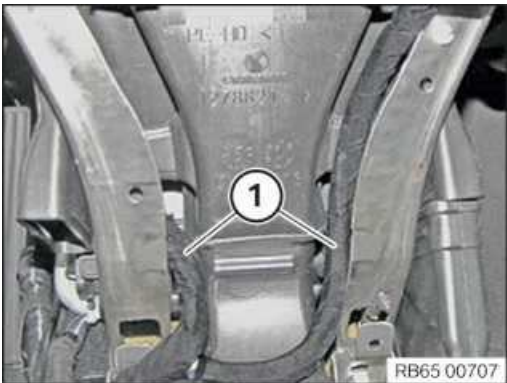
- Position head unit (1).
- Connect and lock all connectors in the marked area.



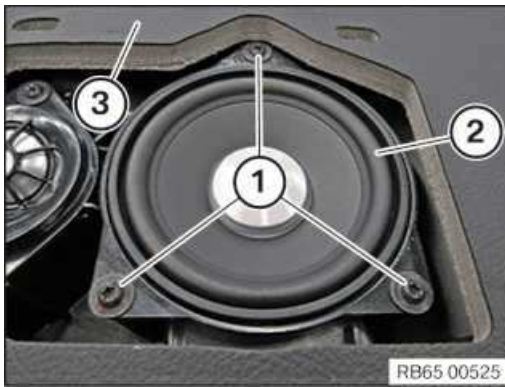
- Slide in the head unit (2) correctly.
- Tighten the screws (1).

Head unit to instrument panel

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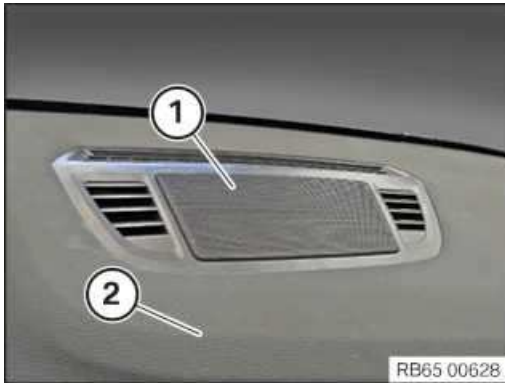
- Route the wiring harness (1) correctly.



- Connect the connector below it to the mid-range speaker (2).
- Position the mid-range speaker (2) in the instrument panel (3).
- Tighten the screws (1).

Speaker to support / support to instrument panel / support to body

Screw		Tightening torque	1,8 Nm
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- Check the latch mechanisms on the speaker cover (1) for damage and renew them if necessary.
The latch mechanisms must not be missing or faulty.
- Engage the speaker cover (1) correctly into the instrument panel (2).

54 – Installing audio operating unit and air conditioning control panel



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



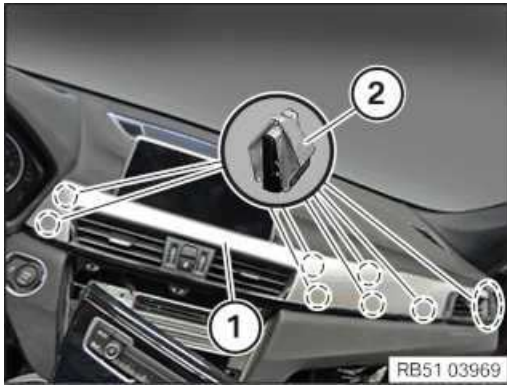
- Correctly position trim (1) and clip it into the instrument panel (2).

55 – Install the finisher on the right instrument panel



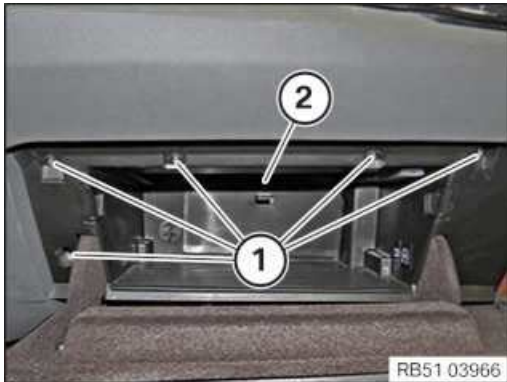
TECHNICAL INFORMATION

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



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

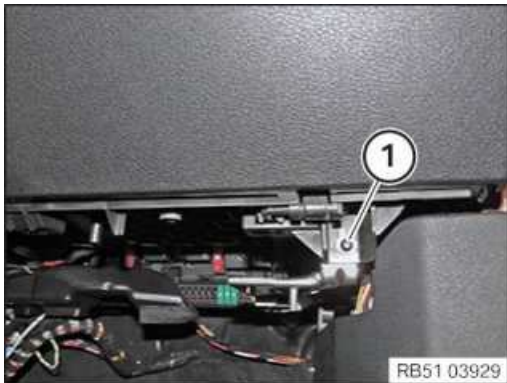
56 – Install right glove box



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

Glove box to instrument panel

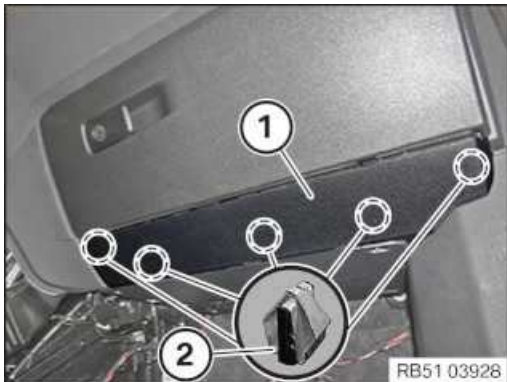
Screw		Tightening torque	1,8 Nm
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- Tighten down screw (1).

Glove box to instrument panel

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



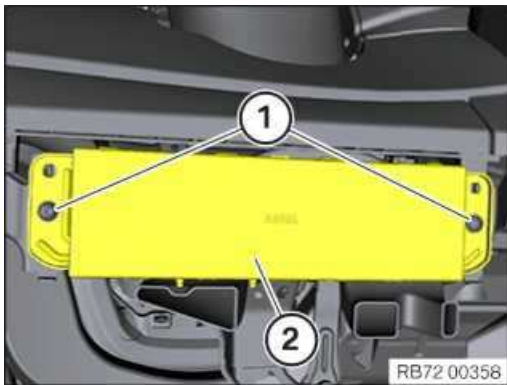
- Install the trim (1) and lock it at the clamps (2).

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TECHNICAL INFORMATION

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

57 – Installing knee airbag



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

Parts: Screw

- Tighten the screws (1).

Knee airbag to body

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



NOTICE

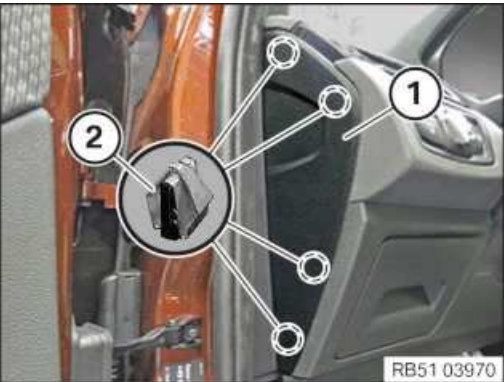
Description is for left component only . Procedure on the right side is identical.

► Install side panel on the instrument panel



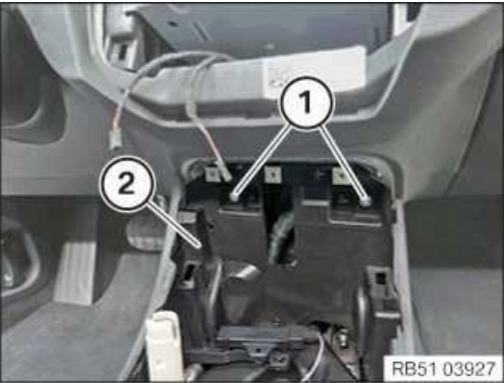
TECHNICAL INFORMATION

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



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

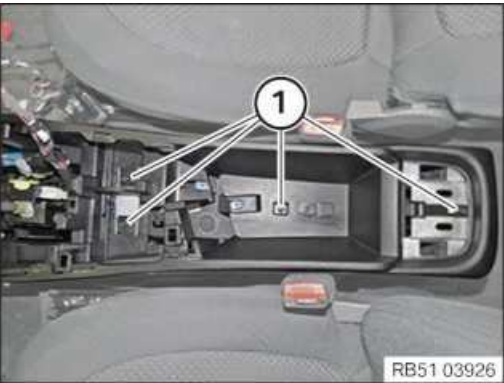
59 – Installing centre console fully with centre armrest



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

Screw connection for centre console

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

Screw connection for centre console

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

► Installing the centre armrest

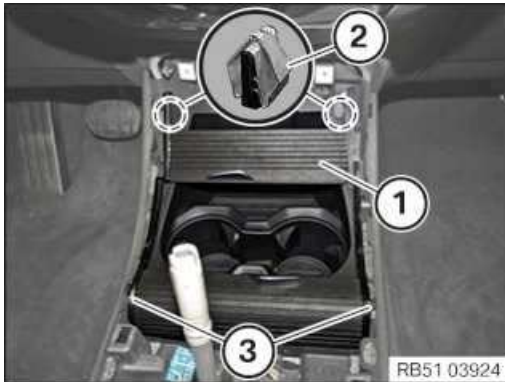


- Install the centre armrest and tighten nuts (1).

Centre armrest to support

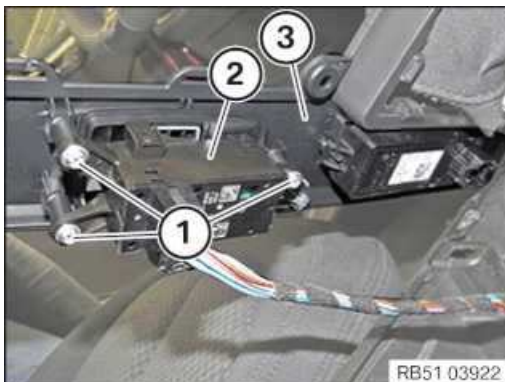
Nut M8		Tightening torque	21,4 Nm
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60 – Installing the front storage compartment



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

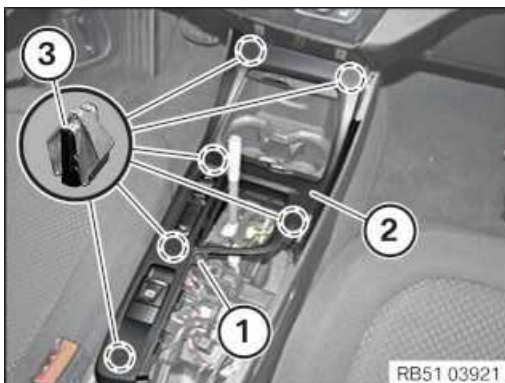
61 – Install the centre console trim



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

Parking brake button

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

Screw connection for centre console

Oval-head screw		Tightening torque	1,8 Nm
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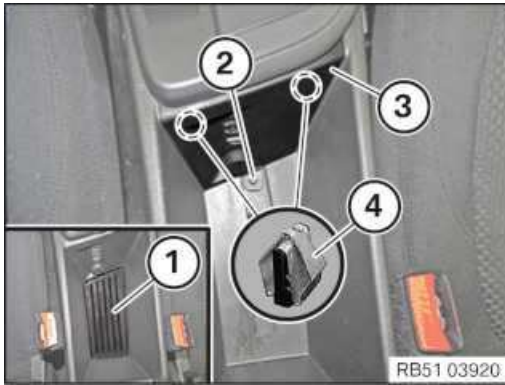
62 – Installing the decorative trim to the centre console



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

Screw connection for centre console

Oval-head screw		Tightening torque	1,8 Nm
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- Position trim (3) and connect all the connectors.
- Install trim (3) and engage it into clamps (4).
- Tighten down screw (2).

Trim to centre console

Oval-head screw		Tightening torque	1,8 Nm
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- Insert the insert (1).



- Tighten down screws (2).

Screw connection for centre console

Oval-head screw		Tightening torque	1,8 Nm
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- Install cover (1) and engage.



- Tighten down screws (2).

Screw connection for centre console

Oval-head screw		Tightening torque	1,8 Nm
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- Install cover (1) and engage.

63 – Installing the gearshift lever cover

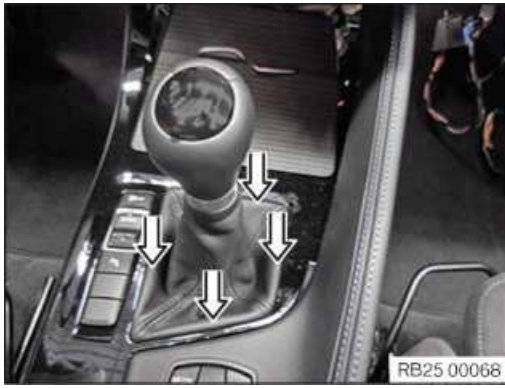


- Place the gearshift lever knob on gearshift lever and align by lightly pressing in the direction of travel.

The anti-twist lock must bite.

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

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



- Clip in gaiter (arrows).

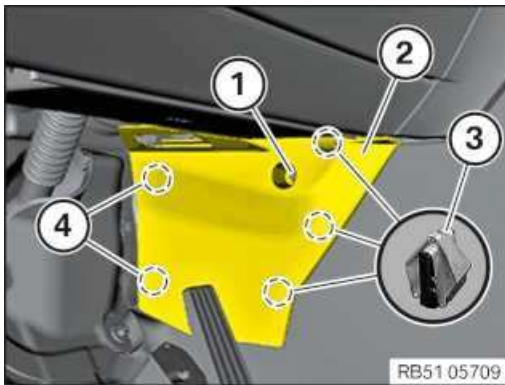
64 – Installing side trim panel for the left and right centre console

► Installing side trim panel for the left centre console



TECHNICAL INFORMATION

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



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

Trim to centre console

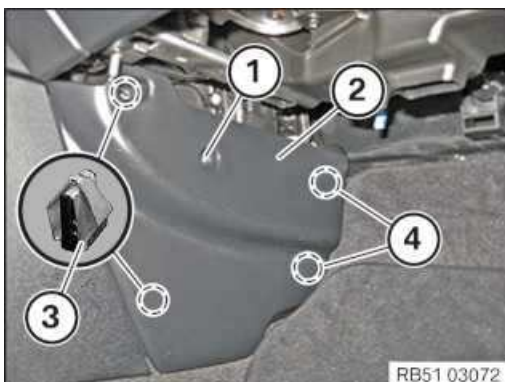
Oval-head screw		Tightening torque	1,8 Nm
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► Installing side trim panel for the right centre console



TECHNICAL INFORMATION

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



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

Trim to centre console

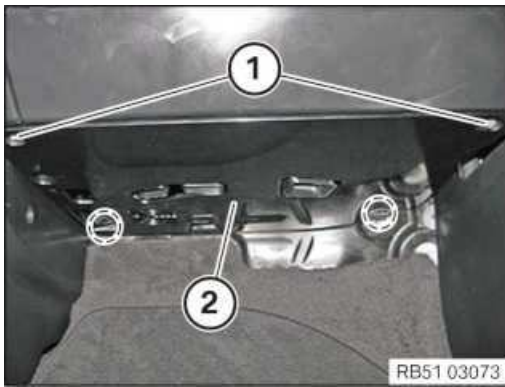
Oval-head screw		Tightening torque	1,8 Nm
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65 – Installing the botto right instrument panel trim



TECHNICAL INFORMATION

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

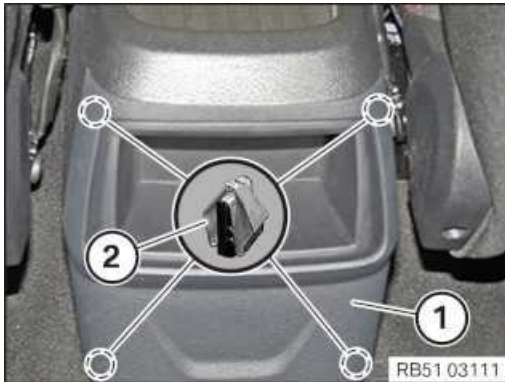


- Install the lower right instrument panel trim (2) and connect and lock the plug connection.
- Insert the lower right instrument panel trim (2) into the front guides.
- Tighten nuts (1).

Bottom left footwell trim to instrument panel

M5 hexagon nut		Tightening torque	2 Nm
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66 – Installing the rear centre console trim



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

67 – Disconnecting all battery earth leads



- See additional information.

68 – Encode/program control unit(s)

Prerequisite

Replacement of the control unit.



TECHNICAL INFORMATION

Use the most recent software version to prevent faults during programming/encoding.
The battery voltage must not fall below 13.0 V during programming.
Use only chargers for a low volt-vehicle electrical system that are recommended by BMW.



TECHNICAL INFORMATION

No high-voltage switch off is required in electric vehicles or hybrid vehicles for programming/encoding.
The high-voltage system will be automatically switched off by the programming system.

Exception:

BMW I01: Note Product and Measures Management Aftersales measure 55176388.

- Connect the battery charger to the vehicle.
- Connect the programming system with the vehicle.
- Determine the action plan.
- Accept and fully process the measures plan.
- If applicable, connect the workshop system to the vehicle, depending on the reworking list.
- Carry out vehicle test.
- Delete the fault memory.
- The information about programming the workshop system and the corresponding notes in the user documentation must be observed.
- Wait until programming/encoding has been completed.
- Disconnect the programming system from the vehicle.
- Disconnect the battery charger from the vehicle.

Additional Information

Overview of Tightening Torques

Head-Up Display to support

Used in step [35](#)

Screw			8 Nm
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Instrument panel trim to carrier support

Used in step [36](#)

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

Used in step [37](#)

Screw		Tightening torque	1,8 Nm
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Instrument cluster to instrument panel

Used in step [38](#)

Screw			1,7 Nm
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Steering column switch cluster (SZL) on the steering column

Used in step [39](#)

Screw TS5x20		Tightening torque	3 Nm
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Steering wheel to steering column

Used in step [42](#)

M14	Only for a micro-encapsulated screw: Renew screw.	Tightening torque	62,5 Nm
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Side trim panel bottom left to holder

Used in step [46](#)

Screw		Tightening torque	3 Nm
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Lever for bonnet release to the holder

Used in step [46](#)

Screw		Tightening torque	3 Nm
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A-pillar trim panel to body

Used in step [48](#)

M5x42 screw	Renew screw	Tightening torque	2,2 Nm
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Head unit to instrument panel

Used in step [52](#)

Screw		Tightening torque	1,8 Nm
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Speaker to support / support to instrument panel / support to bodyUsed in step [53](#)

Screw		Tightening torque	1,8 Nm
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Glove box to instrument panelUsed in step [56](#)

Screw		Tightening torque	1,8 Nm
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Knee airbag to bodyUsed in step [57](#)

M8	Renew screws.	Tightening torque	8 Nm
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Screw connection for centre consoleUsed in step [59](#) [61](#) [62](#)

Oval-head screw		Tightening torque	1,8 Nm
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Centre armrest to supportUsed in step [59](#)

Nut M8		Tightening torque	21,4 Nm
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Parking brake buttonUsed in step [61](#)

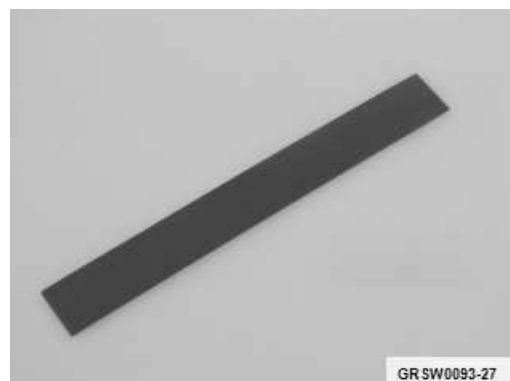
Oval-head screw		Tightening torque	1,5 Nm
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Trim to centre consoleUsed in step [62](#) [64](#)

Oval-head screw		Tightening torque	1,8 Nm
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Bottom left footwell trim to instrument panelUsed in step [65](#)

M5 hexagon nut		Tightening torque	2 Nm
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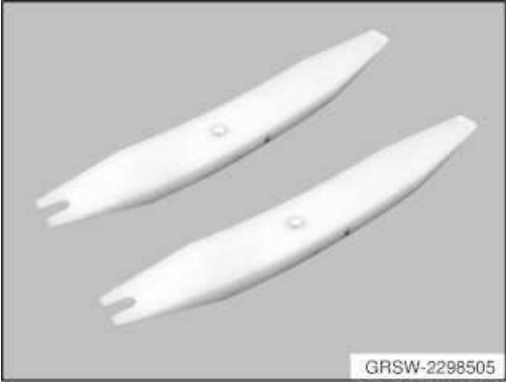
Overview of Special Tools**0 496 571 (00 9 327) Wedge****Common**Used in step [6](#) [15](#)

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

0 496 569 (00 9 325) Wedge**Common**Used in step [7](#) [9](#) [11](#) [13](#) [17](#) [18](#) [22](#) [24](#)

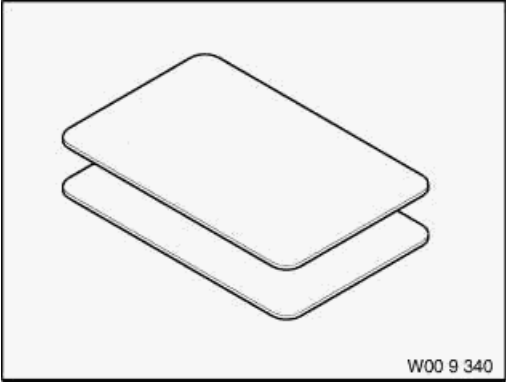
Usage	(Panel wedge) From 11/2008 this special tool replaces panel wedge 00 9 317 (different material)
Included in the tool or work	0 490 527
Storage location	Individual
Replaced by	
In connection with	
SI-Number	41 01 09 (507)

2 298 505 Wedge



Common		Used in step	14
Usage	Set (delivery of 2 pieces)		
Included in the tool or work			
Storage location	C34		
Replaced by			
In connection with			
SI-Number	01 03 12 (792)		

0 493 687 (00 9 340) Removal aid



Common		Used in step	19
Usage	(Removal aid (2 x)) For levering out switch block on driver's door.		
Included in the tool or work			
Storage location	C2		
Replaced by			
In connection with			
SI-Number	01 15 99 (483)		

Consisting of

Pos	BMW Order number	Replaced by	Designation	In Connection with
1	0 496 289 (00 9 341)		Removal aid Only available as a set (2 tools) under 00 9 340 (= 83 30 0 493 687).	

2 298 504 Wedge



Common		Used in step	28
Usage	Wedge with angled lug		
Included in the tool or work			
Storage location	C34		
Replaced by			
In connection with			
SI-Number	01 03 12 (792)		

Links

[illegible]