

65 77 018 Replace airbag control unit

Overview of Activities

Additional Information

Preliminary Work

- 1 Disconnecting all battery earth leads
- 2 Removing the centre stack trim
- 3 Removing the front storage compartment
- 4 Removing the centre armrest storage compartm...
- 5 Removing the rear centre console trim
- 6 Removing the rear storage compartment
- 7 Removing the trim panel for pedal mechanism
- 8 Removing the bottom left instrument panel trim
- 9 Removing the centre console

Main Work

- 10 Removing the airbag control unit
- 11 Installing the airbag control unit

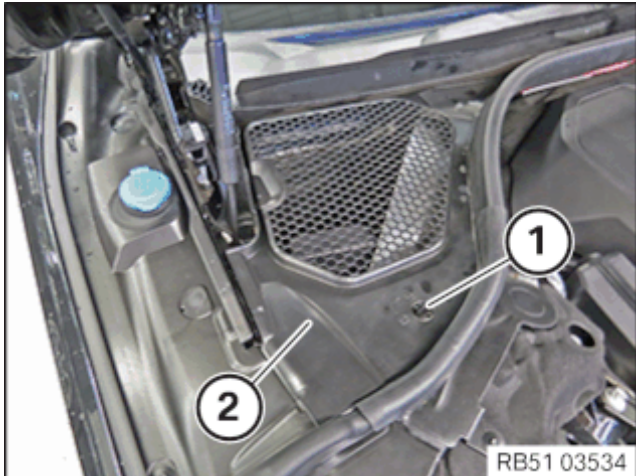
Postprocesses

- 12 Installing the centre console
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- 15 Installing the rear storage compartment
- 16 Installing the rear centre console trim
- 17 Installing the centre armrest storage compartment
- 18 Installing the front storage compartment
- 19 Installing the centre stack trim
- 20 Disconnecting all battery earth leads

General information

PRELIMINARY WORK

1-Disconnecting all battery earth leads

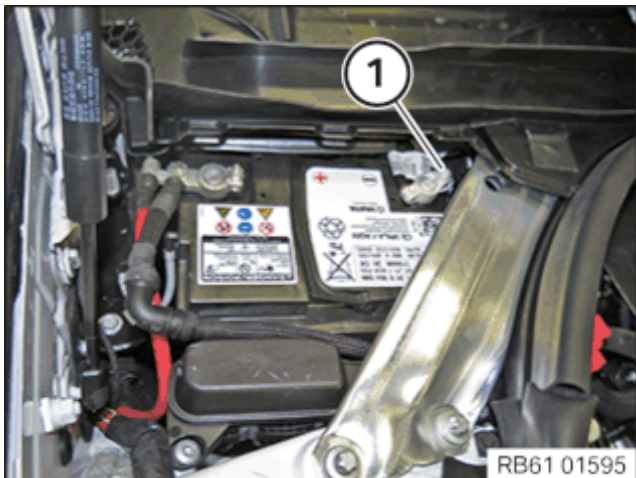


◀ Removing the rear right engine compartment cover

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



◀ Disconnect battery earth lead (engine compartment)



RISK OF DAMAGE

Damage to battery terminal, the safety battery terminal or the intelligent battery sensor (IBS).

Damaged battery terminals can lead to malfunctions or vehicle electrical system faults.

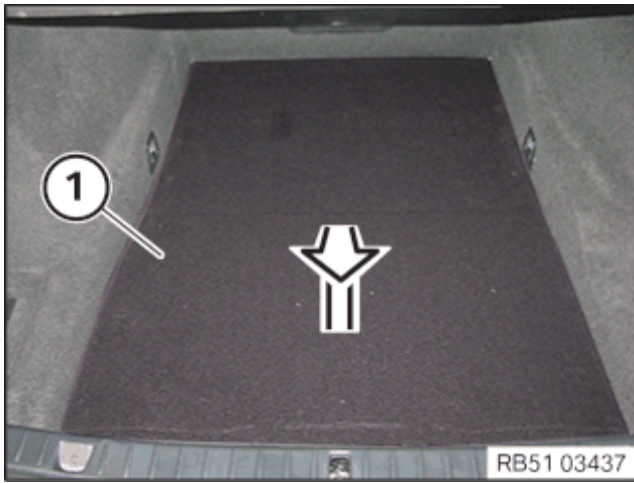
- Pull off battery terminal from battery pole by carefully moving to and fro. Do not pry off using a tool.

- Loosen the nut on the negative battery terminal (1).
- Pull off the negative battery terminal (1) from the negative battery terminal.
- Put the battery earth lead to one side and secure it.



◀ Removing the luggage compartment floor trim panel

- Lever out the luggage compartment floor trim panel (1) on the side using special tool **0 496 569 (00 9 325)**.



- Remove luggage compartment floor trim panel (1) in direction of arrow.



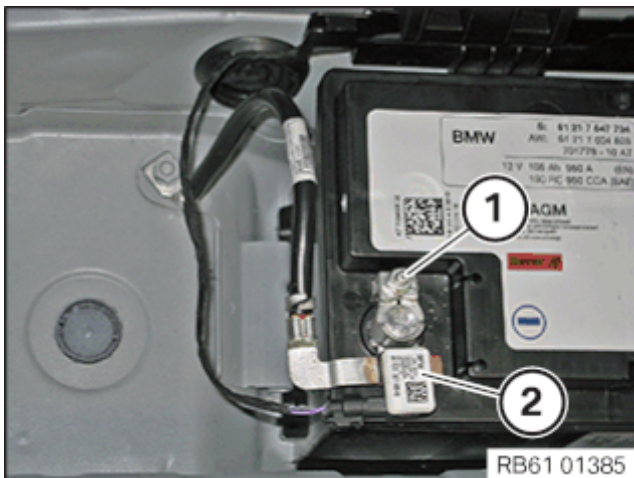
◀ Removing the storage tray



- Remove the storage tray (1) towards the top.



◀ Disconnecting the battery earth lead



RISK OF DAMAGE

Damage to battery terminal, the safety battery terminal or the intelligent battery sensor (IBS).

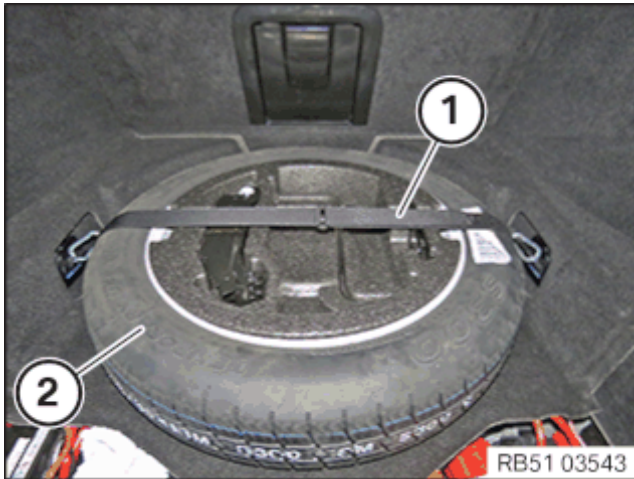
Damaged battery terminals can lead to malfunctions or vehicle electrical system faults.

- Pull off battery terminal from battery pole by carefully moving to and fro. Do not pry off using a tool.

- Slacken nut (1).
- Pull off the negative battery terminal and the IBS (2) from the negative battery terminal.
- Put the battery earth lead to one side and secure it.



◀ Removing the storage tray for the compact spare wheel



- Loosen the Velcro fastener (1).
- Remove the compact spare wheel including insert (2) towards the top.



- Remove the storage tray (1) towards the top rear.

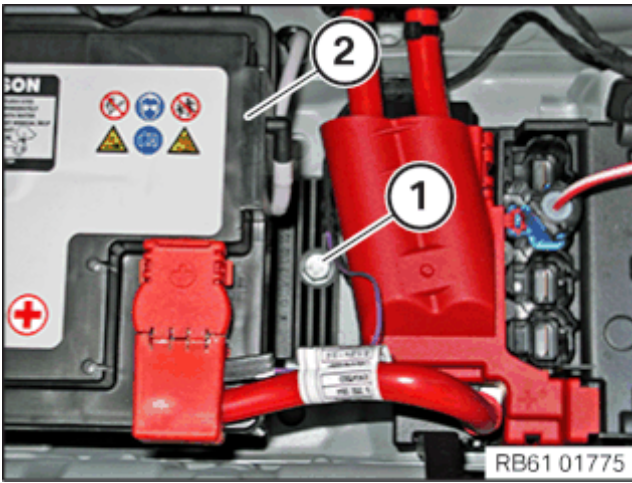


◀ Disconnect the battery earth lead (active steering)

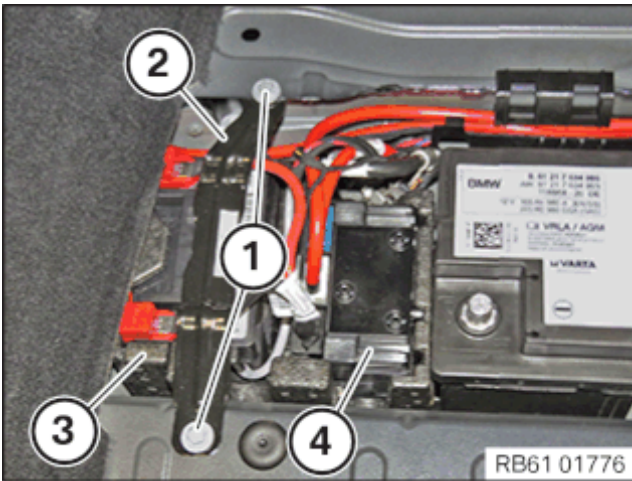
i TECHNICAL INFORMATION

Disconnect and connect the battery at the battery terminals only. Do not disconnect at the connectors!

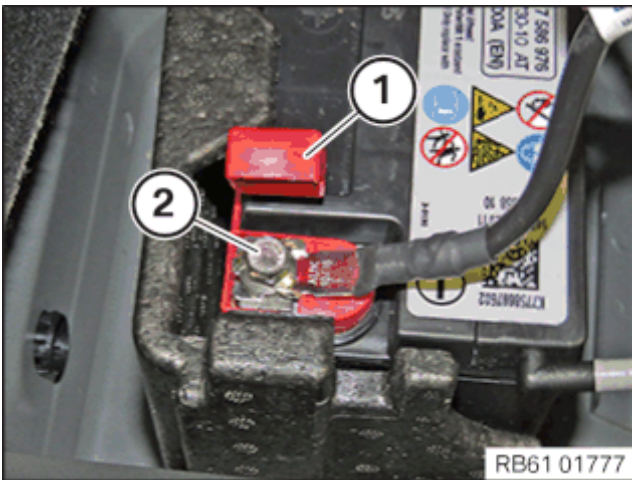
- Loosen the screw (1) and remove the battery holder.
- Push battery (2) as far to the right as possible.



- Loosen screws (1).
- Remove the retaining brackets (2).
- Move auxiliary battery (3) and separating element (4) as far as possible to the right.

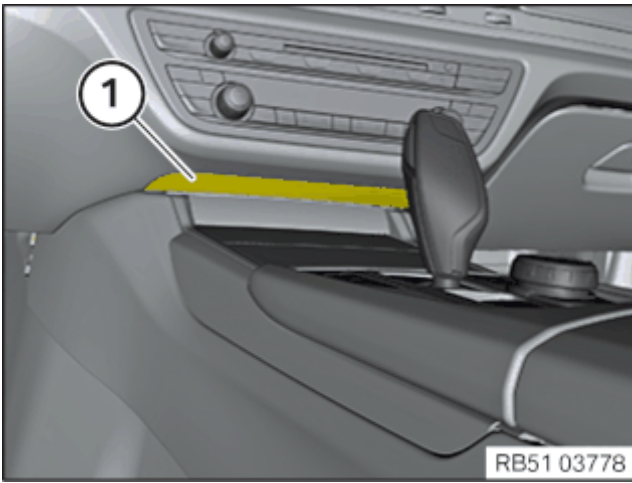


- Open the protective cap (1).
- Loosen the screw on the negative battery terminal (2).
- Put the battery earth lead to one side and secure it.



2-Removing the centre stack trim

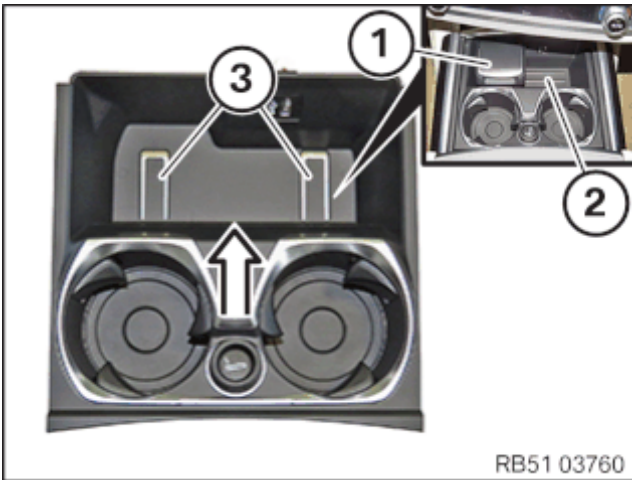
- Unclip the centre stack trim (1) with the special tool **0 496 569 (00 9 325)** toward the bottom.



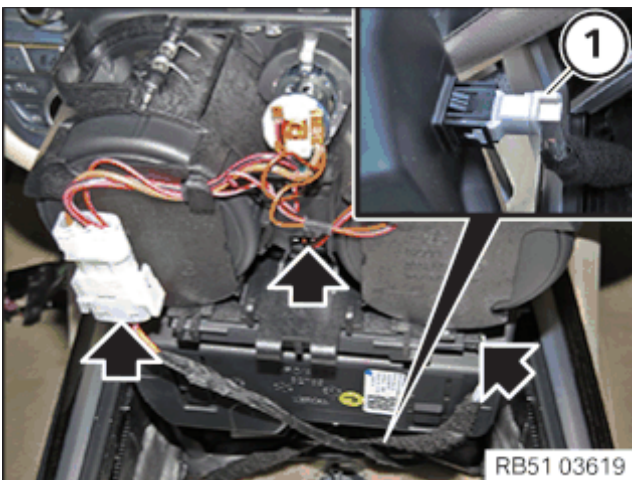
3–Removing the front storage compartment

Prerequisite

The cover of the storage compartment is open.



- If applicable, remove the insert (1).
- Remove the insert mat (2).
- Lift the latch mechanisms (3) and push the storage compartment towards the front.



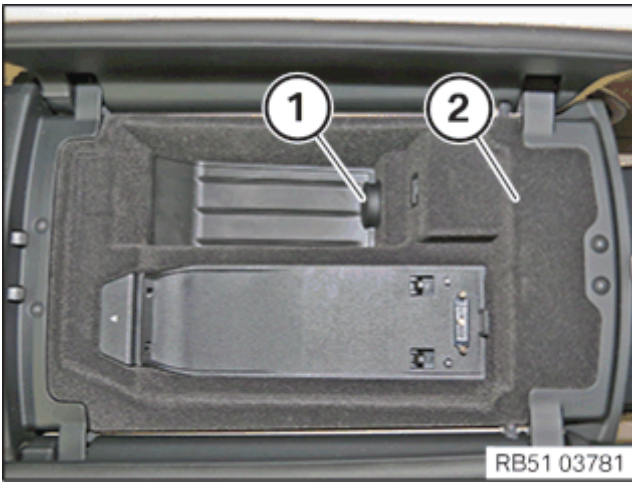
- Place the storage compartment in an upright position.
- Disconnect the connector for the USB port (1).
- Unlock and disconnect all connectors on the bottom of the storage compartment.
- Remove the storage compartment.

4–Removing the centre armrest storage compartment

Prerequisite

Centre armrest storage compartment is open.

- Remove the cover of the 12-V power socket (1).



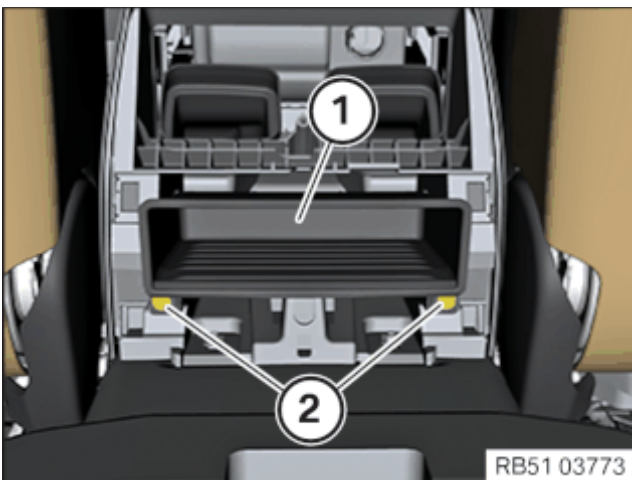
- Reach into the 12-V power socket. Pull the rear centre armrest storage compartment (2) upward and unclip.
- Unlock all plug connections and disconnect.
- Remove centre armrest storage compartment (2).

5–Removing the rear centre console trim



- Unclip rear centre console trim (1) with special tool **0 496 569 (00 9 325)** toward the back.
- Unlock all plug connections and disconnect.
- Remove rear centre console trim (1).

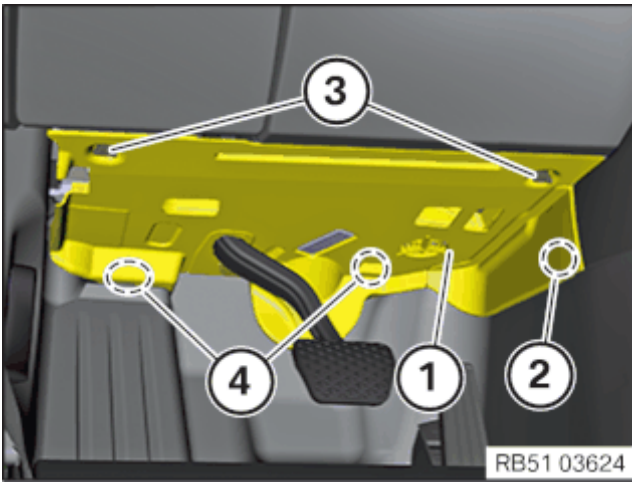
6–Removing the rear storage compartment



- Loosen screws (2).
- Pull rear storage compartment (1) to the rear.

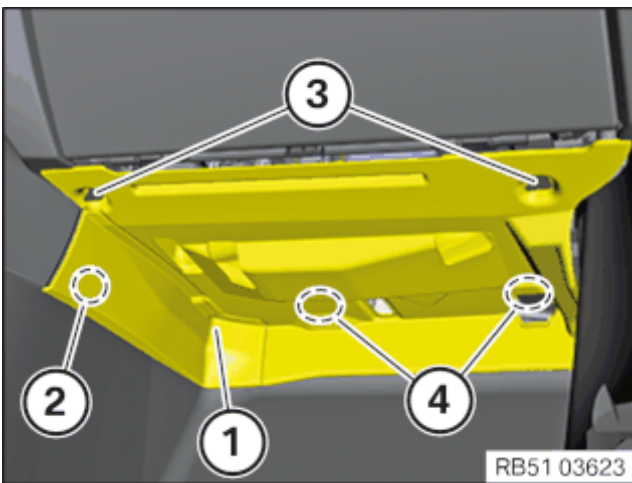
7–Removing the trim panel for pedal mechanism

- Unclip the trim panel (1) towards the inside in this area (2).
- Twist the locks (3) by 90 degrees.
- Detach trim panel (1) inwards out of the guides (4).



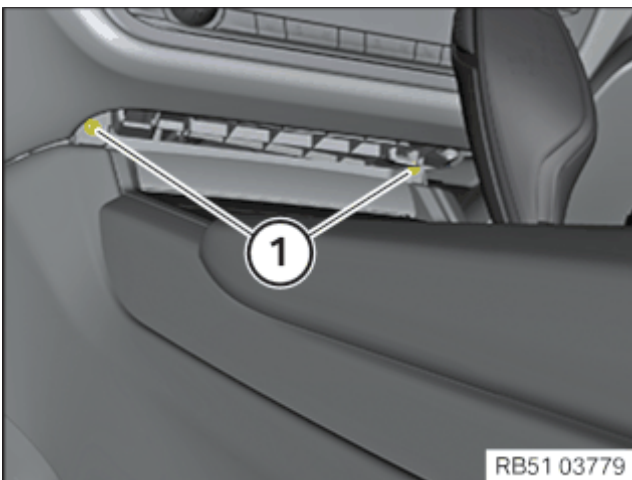
- Unlock associated plug connection and disconnect.

8–Removing the bottom left instrument panel trim



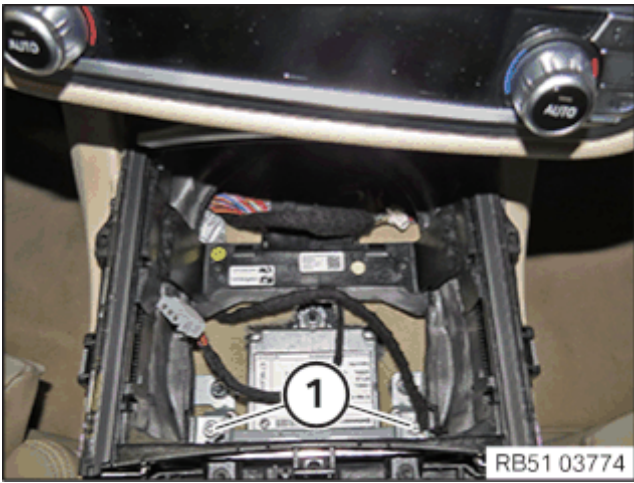
- Unclip the trim panel (1) towards the inside in this area (2).
- Twist the locks (3) by 90 degrees.
- Detach the trim panel (1) from the guides (4) towards the inside.
- Unlock associated plug connection and disconnect.

9–Removing the centre console

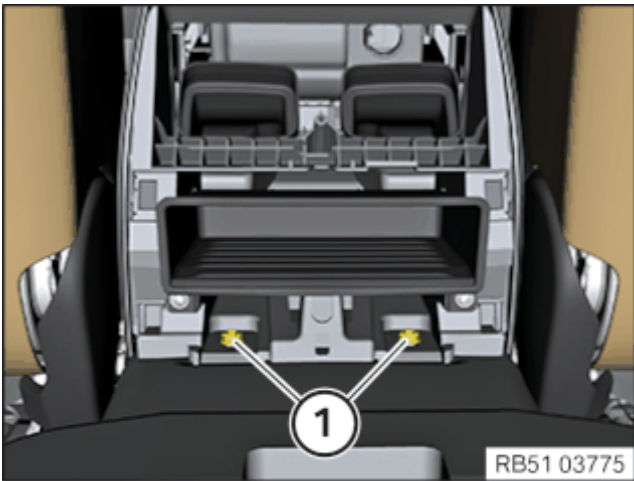


- Loosen screws (1).

- Loosen screws (1).



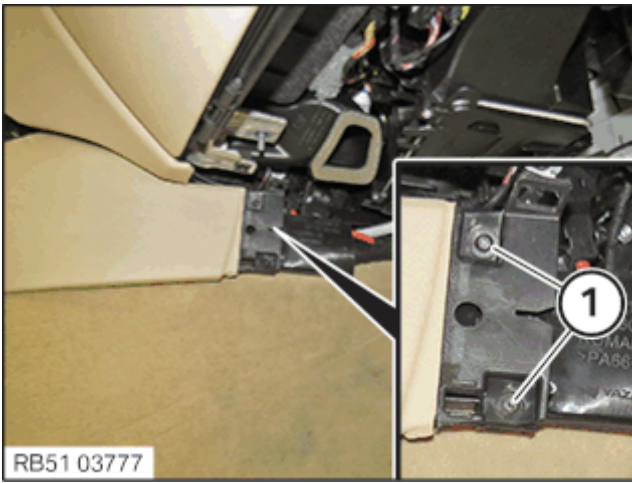
- Loosen screws (1).



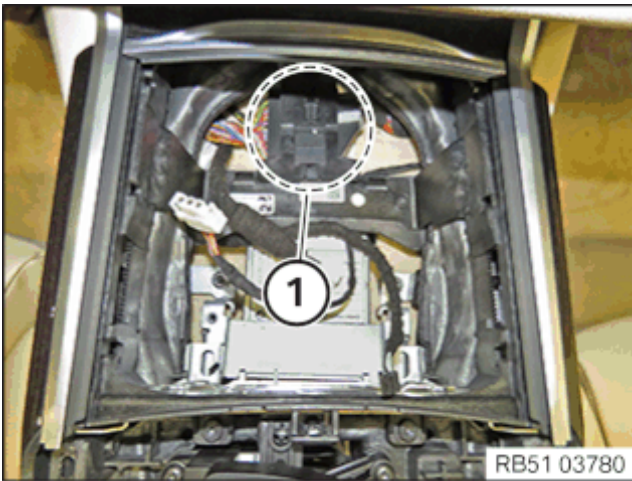
- On the left side of vehicle, loosen the screw (1).



- On the right side of vehicle, loosen the screws (1).



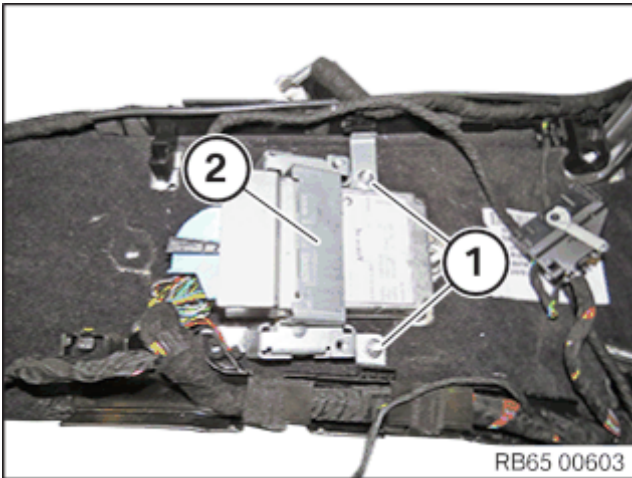
- Unlock and disconnect central connector (1).



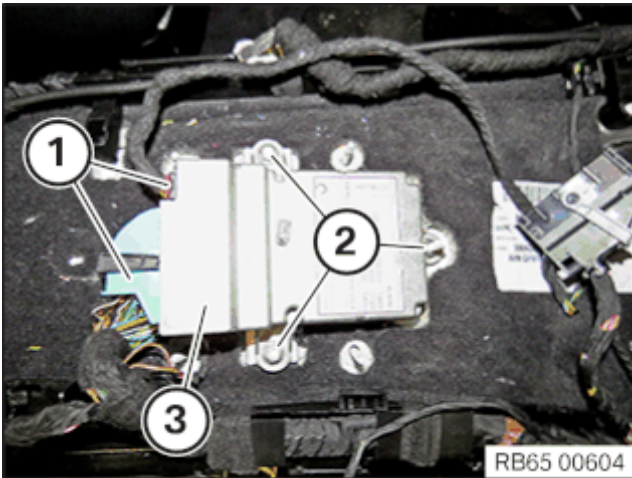
- Lift up centre console and pull to rear.
- Lift centre console out of vehicle.

MAIN WORK

10–Removing the airbag control unit

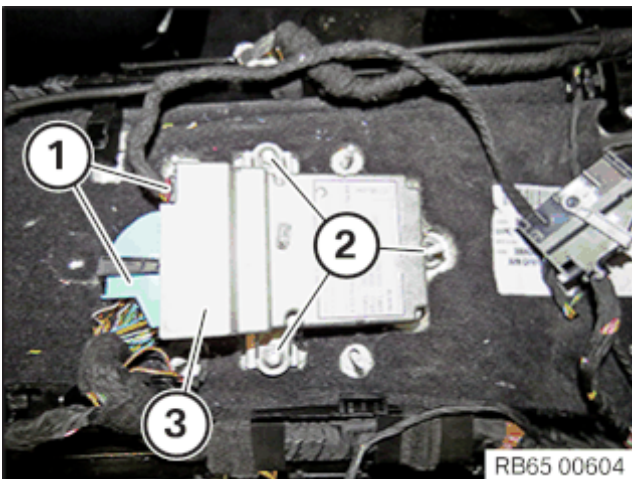


- Loosen nuts (1).
- Remove the holder (2).



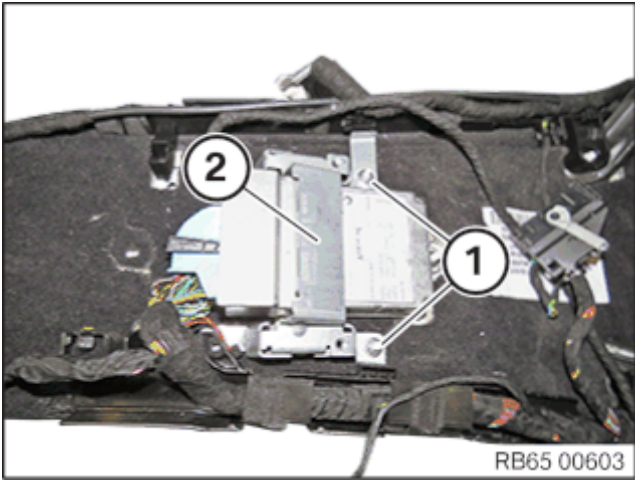
- Unlock and disconnect connector (1).
- Loosen nuts (2).
- Remove airbag control unit (3).

11–Installing the airbag control unit



- Position airbag control unit (3) correctly.
- Tighten nuts (2).
- Connect connectors (1) and lock.

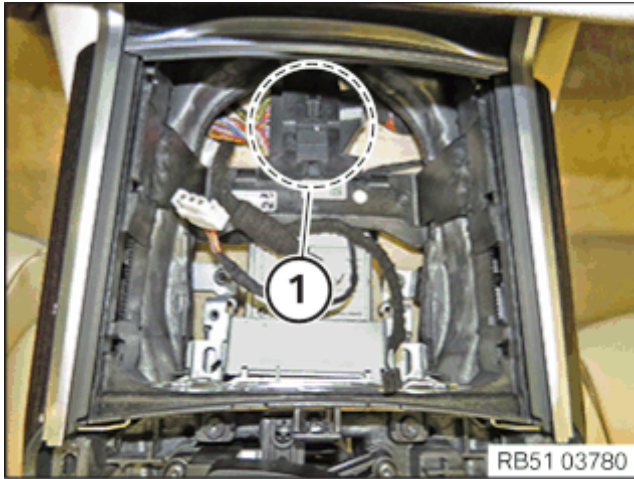
- Correctly position the holder (2).
- Tighten nuts (1).



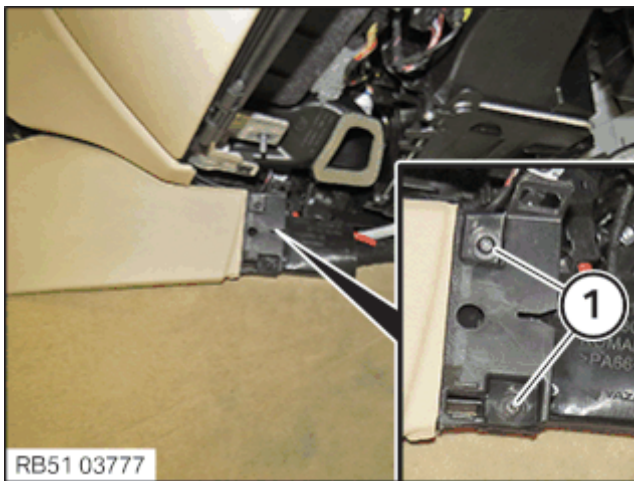
POSTPROCESSES

12–Installing the centre console

- Lift centre console into vehicle.
- Align centre console on Cardan tunnel and push from the front.



- Connect central connector (1).



- On the right side of vehicle, tighten the screws (1).

Centre console



1,8 Nm



- On the left side of vehicle, tighten the screw (1).

Centre console



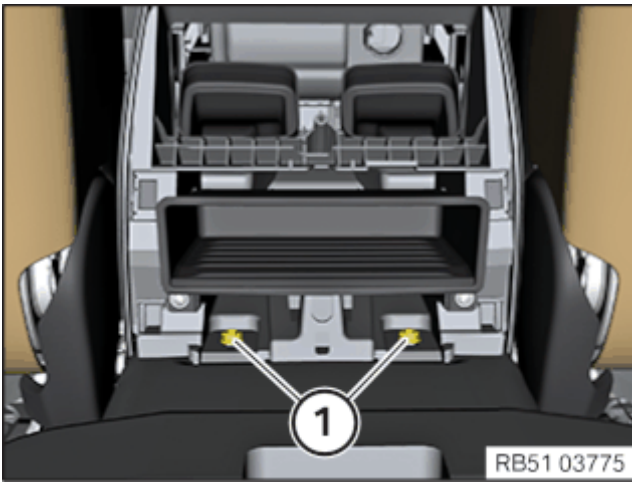
1,8 Nm

- Tighten the screws (1).

Centre console to holder

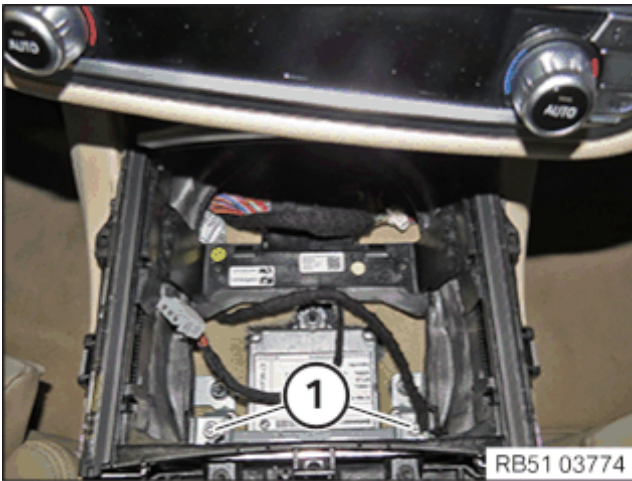


4,6 Nm



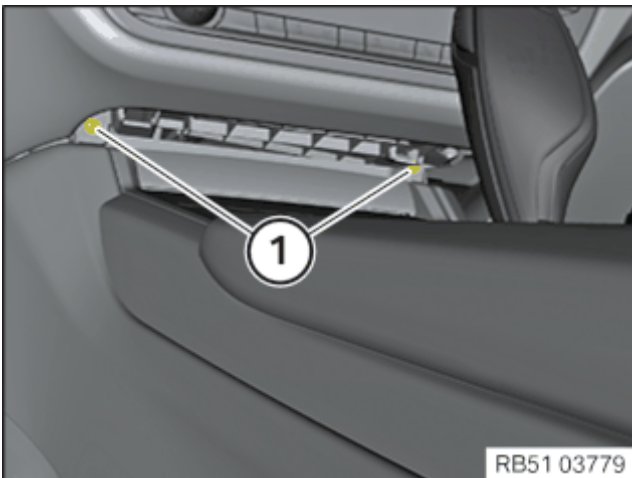
- Tighten the screws (1).

Centre console to holder



- Tighten the screws (1).

Centre console to instrument panel

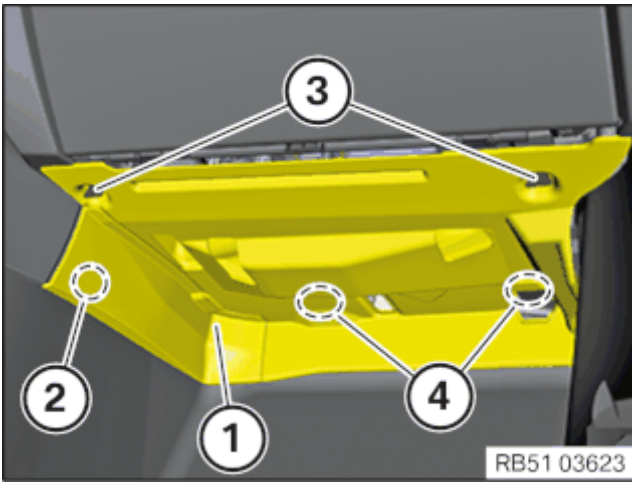


	4,6 Nm
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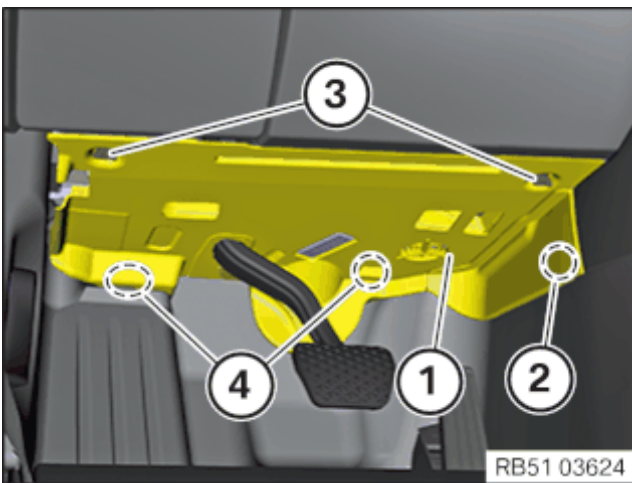
	2,3 Nm
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13–Installing the botto right instrument panel trim

- Connect associated connector.
- Attach the trim panel (1) to the guides (4) and fold towards the top.
- Clip the trim panel (1) into the centre console in this area (2).
- Correctly insert the locks (3) and twist by 90 degrees.

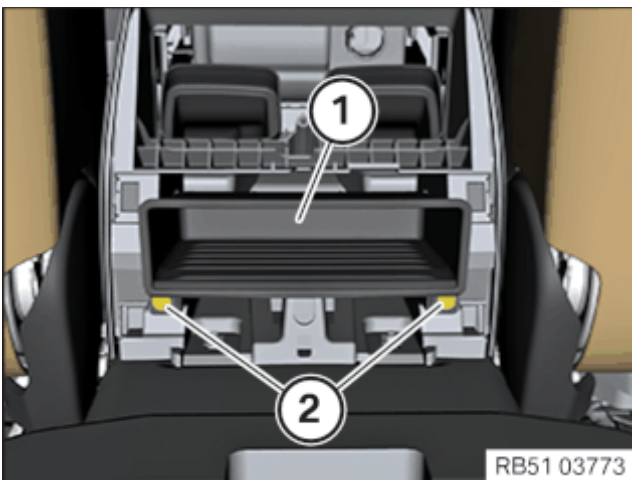


14–Installing the trim panel for the pedal mechanism



- Connect associated connector.
- Attach the trim panel (1) to the guides (4) and fold towards the top.
- Clip the trim panel (1) into the centre console in this area (2).
- Correctly insert the locks (3) and twist by 90 degrees.

15–Installing the rear storage compartment



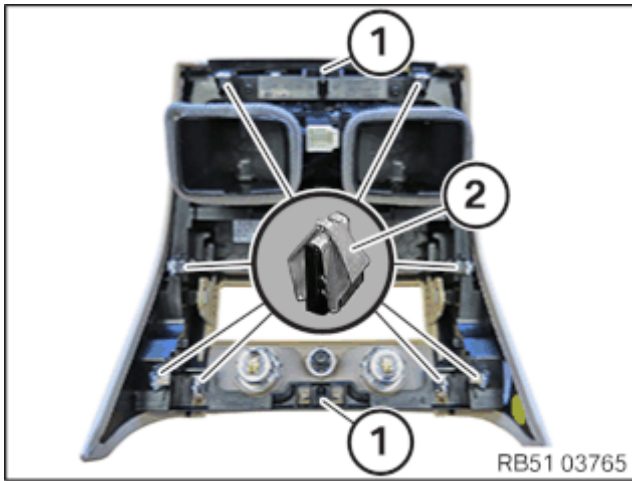
- Insert rear storage compartment (1) into centre console.
- Tighten down screws (2).

Rear storage compartment to centre console



2,3 Nm

16–Installing the rear centre console trim



i TECHNICAL INFORMATION

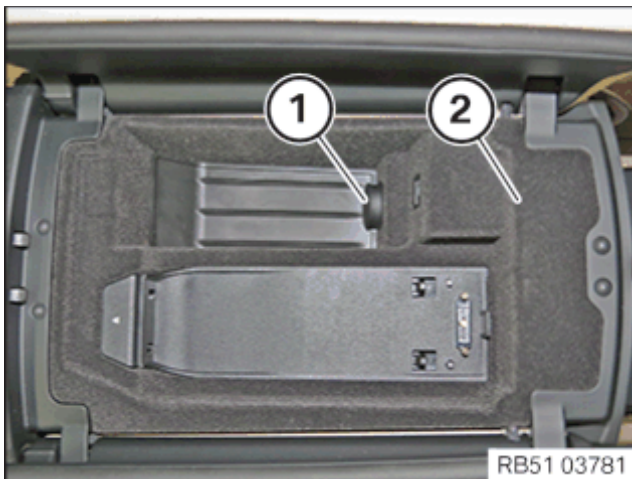
Latch mechanisms, guides and mounting elements must not be damaged or missing.

- Check guides (1) and clamps (2); replace if necessary.



- Connect all plug connections.
- Clip in rear centre console trim (1) in a forwards direction.

17–Installing the centre armrest storage compartment



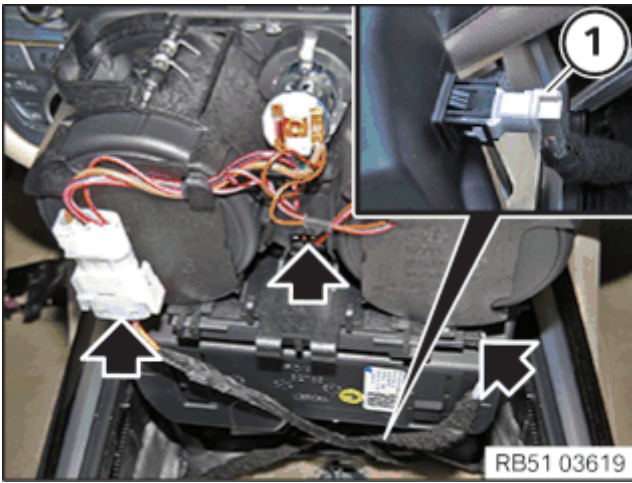
i TECHNICAL INFORMATION

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

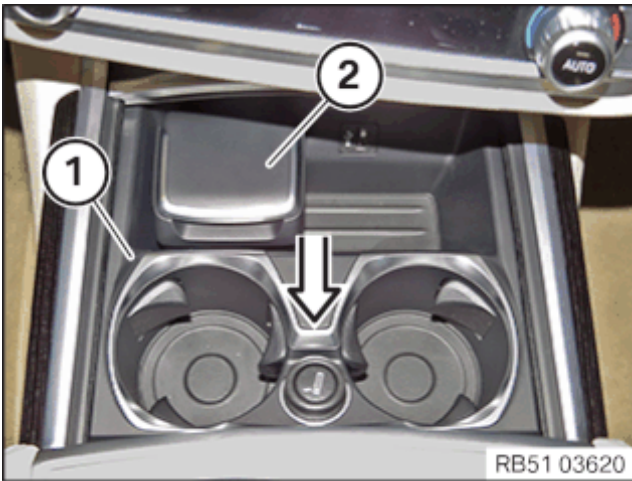
- Check the latch mechanisms and guides on the centre armrest storage compartment (2).
- Position the centre armrest storage compartment (2) on the centre armrest.
- Connect all plug connections.
- Insert the centre armrest storage compartment (2) at the front and press down.

18–Installing the front storage compartment

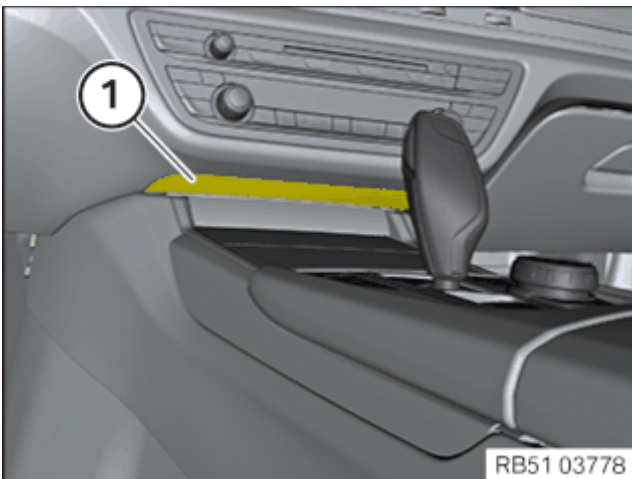
- Align the storage compartment with the centre console when it is in upright position.
- Connect the connector for the USB port (1).
- Connect all connectors on the bottom of the storage compartment.



- Insert the storage compartment (1) in the centre console.
- Forcefully pull the storage compartment (1) backwards and engage it.
- Insert the insert mat.
- If applicable insert the insert (2).



19–Installing the centre stack trim



i TECHNICAL INFORMATION

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

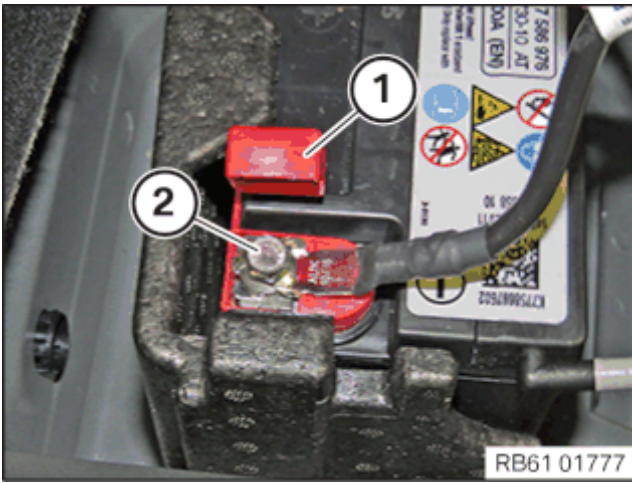
- Check latch mechanisms and guides on centre stack trim (1).
- Clip in centre stack trim (1) in upward direction.

20–Disconnecting all battery earth leads

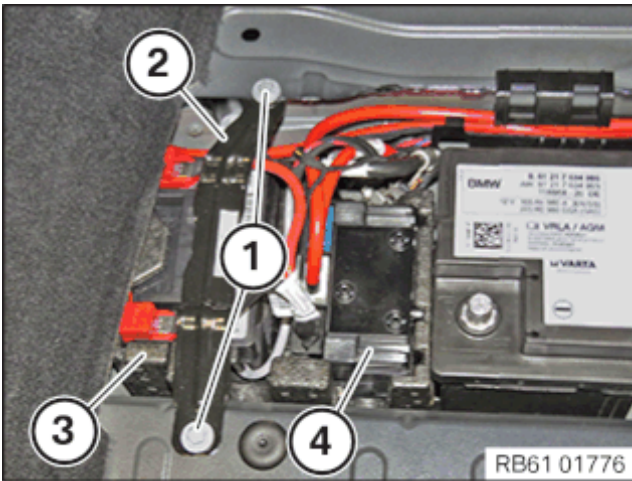
◀ Connecting the battery earth lead (active steering)

i TECHNICAL INFORMATION

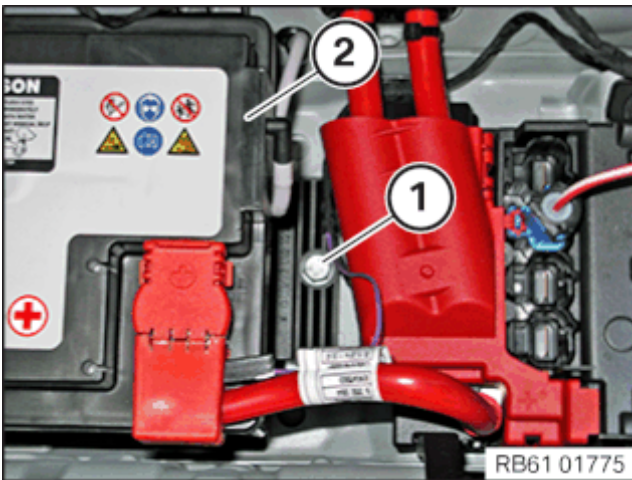
Disconnect and connect the battery at the battery terminals only. Do not disconnect at the connectors!



- Tighten the negative battery terminal using the screw (2).
- Close the protective cap (1).



- Push battery (3) and separating element (4) back to the left.
- Insert the retaining bracket (2).
- Tighten the screws (1).



- Move the battery (2) back towards the left again.
- Attach the battery holder and tighten using the screw (1).

Battery holder to body



M8x40 screw		10 Nm
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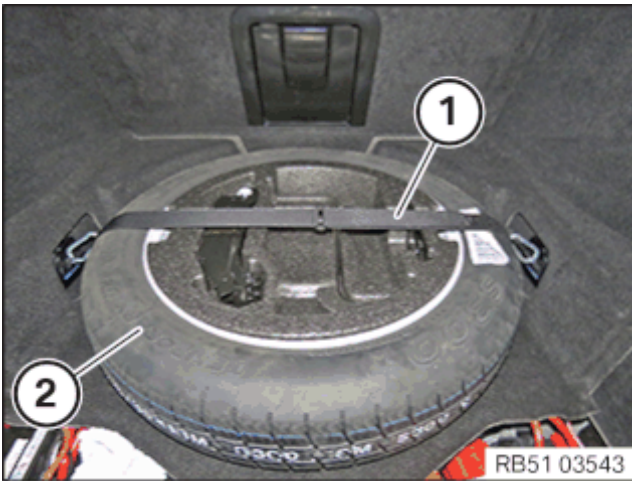


◀ Installing the compact spare wheel storage tray

- Insert the storage tray (1).



- Insert the compact spare wheel with insert (2).
- Close the Velcro fastener (1).



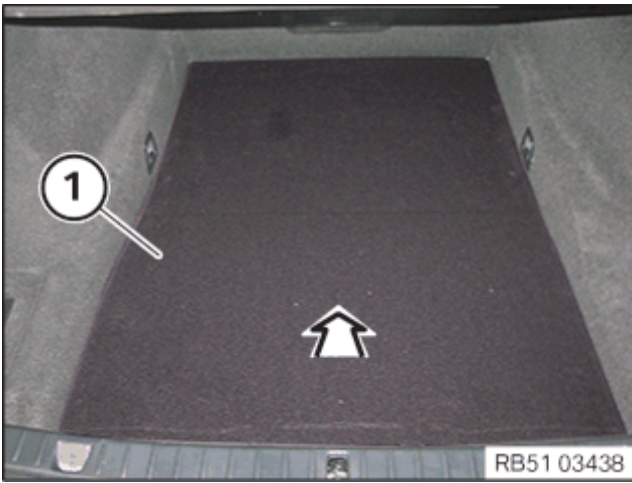
◀ Installing the storage tray

- Insert the storage tray (1) towards the bottom.



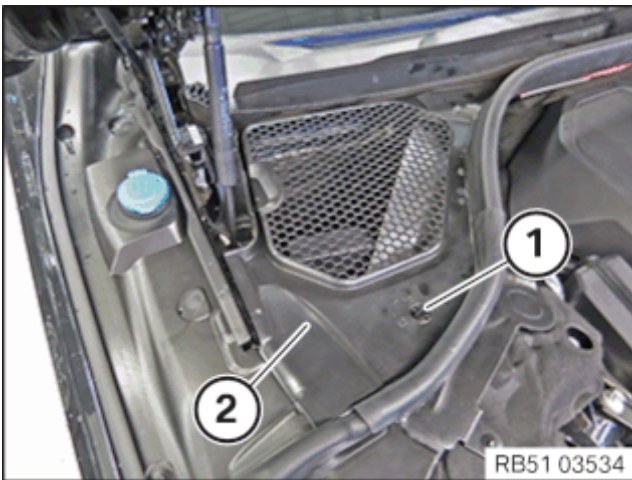
◀ Installing the luggage compartment floor trim panel

- Insert the luggage compartment floor trim panel (1) in the direction of the arrow.



◀ Installing the rear right engine compartment cover

- Install the cover (2).
- Lock the lock (1).



21–Encode/program control unit(s)

i 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.

i 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.

- 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.