


61 31 001 Removing and installing/replacing HDC button

Overview of Activities

Additional Information

Preliminary Work

- 1 Deactivating the 48 V electrical system 
- 2 Disconnecting all battery earth leads
- 3 Removing the carpet from the left and right sides of the centre console
- 4 Remove the centre console trim
- 5 Removing the holder on the centre console trim

Main Work

- 6 Removing the HDC button
- 7 Installing the HDC button

Postprocesses

- 8 Install the older on the centre console trim
- 9 Installing the centre console trim
- 10 Installing the carpet on the left and right sides of the centre console
- 11 Connecting all battery earth leads
- 12 Activating the 48 V electrical system

General information

PRELIMINARY WORK

1–Deactivating the 48 V electrical system

[Additional information is available.](#)

Prerequisite

Ignition is switched off.

WARNING

Deactivation of the 12 V vehicle electrical system.

Risk of short circuits! Risk of fire!

- Make sure that **no battery charger** is connected to the jump start terminal point in the engine compartment.
- For vehicles with additional electrical systems (48 V electrical system, high-voltage vehicle electrical system), it is mandatory to deactivate them **before** disconnecting the vehicle battery.

WARNING

Deactivation of the 48 V electrical system.

Risk of short circuits! Risk of fire!

- Make sure that **no charger** is connected to the jump start support point in the engine compartment.

RISK OF DAMAGE

Damage to 48-V battery

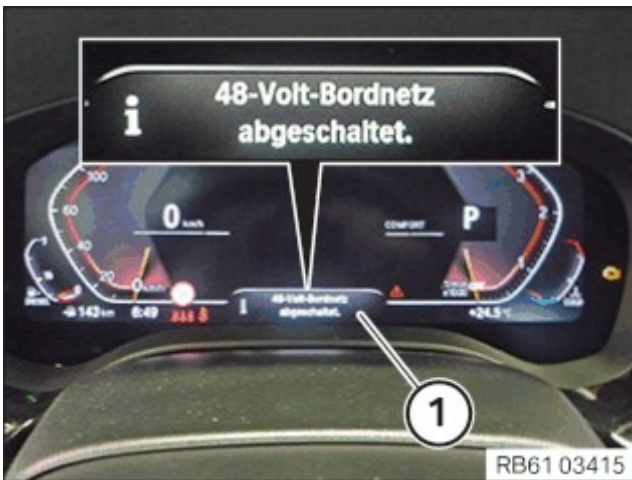
If a 48-V battery that is disconnected from the electrical system is activated, the battery electronics will be damaged.

- Only carry out activation of the 48V electrical system with a completely connected 48-V battery.

TECHNICAL INFORMATION

Follow notes for 48-V battery. See further information 6120 ... Notes on 48-V battery.

- Deactivate the 48V electrical system by opening the bonnet.
The deactivation takes place automatically.



Check

i TECHNICAL INFORMATION

Zero voltage (48V electrical system is switched off) is displayed only in PAD mode.

- Press the START-STOP button quickly 3 times without stepping on the brake pedal to establish the PAD mode.
- Check isolation from the supply in the instrument cluster in PAD mode.

desired state

- The Check Control message "48V electrical system switched off." (1) is displayed.

Result

- » **The absence of voltage** cannot be determined by means of the Check Control message "48V electrical system switched off:" (1). Work is not permitted to be started.

Measure

- Carry out the service function "48 V electrical system deactivation".
 - Vehicle management > Service functions > Voltage supply > Deactivate 48 V electrical system

Only when the Check Control message "48 V electrical system switched off." (1) is displayed in the instrument cluster is it permitted to disconnect the 12 V battery.

If the absence of voltage is not indicated clearly, contact Technical Support.

Result

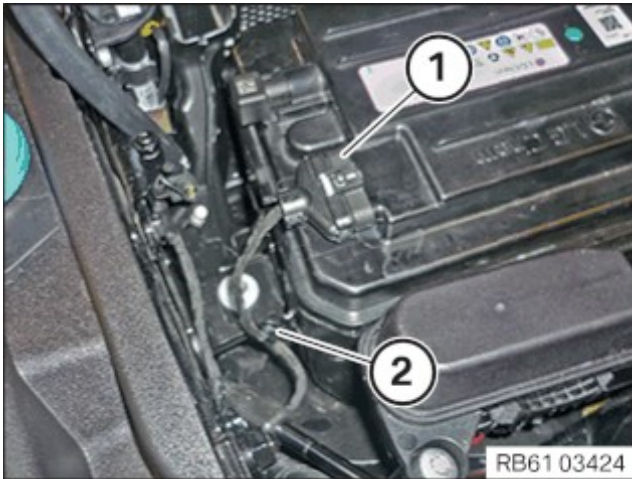
- » The Check Control message signals that the 48V electrical system has been switched off.

Measure

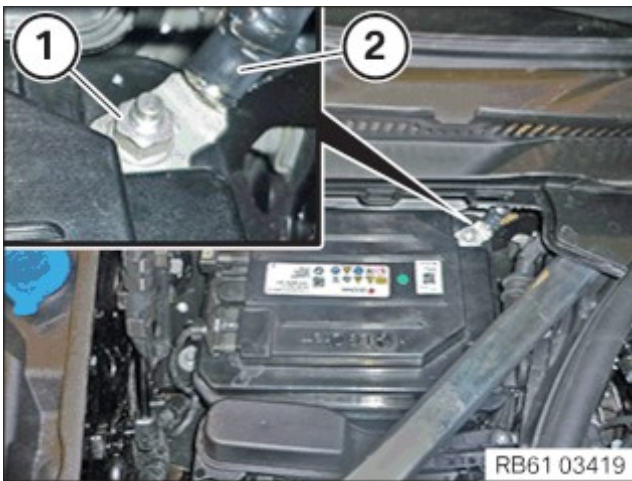
- Exit PAD mode by pressing the START-STOP button once without depressing the brake pedal.

The work “Disconnecting the negative battery cable of the 48-V battery” can be started.

- Unlock and disconnect plug connection (1) of the CAN bus.
- Release the clip (2).



- Loosen nut (1).
- Pull off negative battery cable (2) of the 48-V battery from the negative battery terminal, set it aside and secure it.



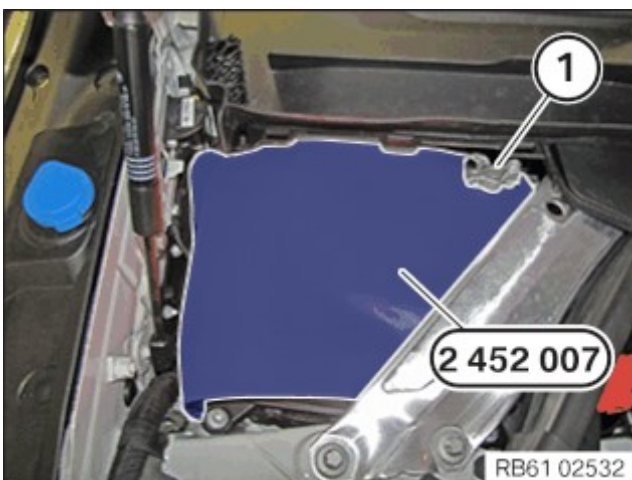
⚠ WARNING

Unprotected battery terminals.

Risk of short circuits! Risk of fire!

- Cover the vehicle battery.

- Cover the vehicle battery with the special tool **2 452 007** as shown.
- Position the battery earth lead (1) as shown.



2–Disconnecting all battery earth leads

[Additional information is available.](#)

- See additional information.



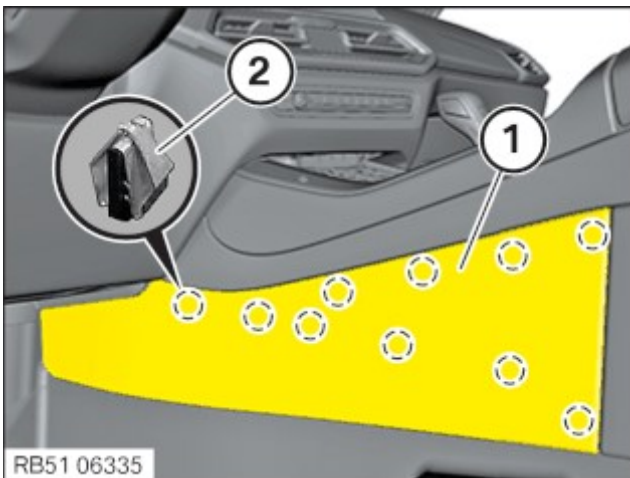
3-Removing the carpet from the left and right sides of the centre console

NOTICE

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

► Removing the carpet from the centre console at the side

- Unclip the carpet (1) from the front side of the clamps (2) and remove it.



4-Remove the centre console trim

RISK OF DAMAGE

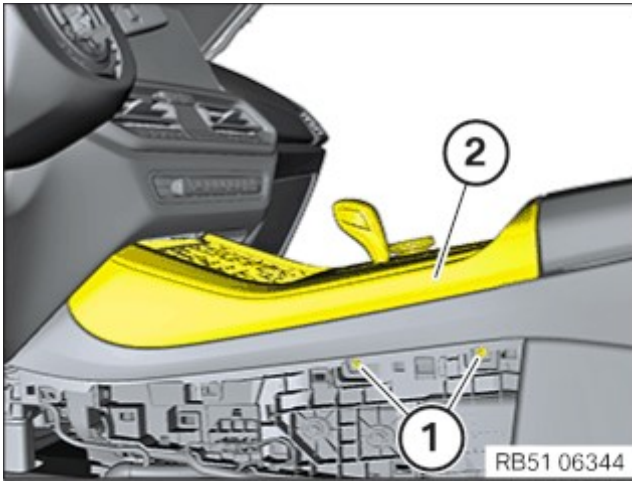
Careless handling of tools and sharp-edged components.

Scratch, surface damage.

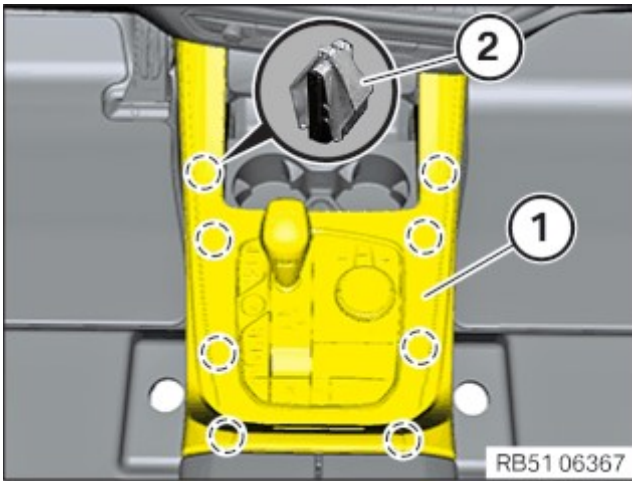
- Protect working area.
- Handle tools and components carefully.

 **NOTICE**

Perform the operations on the left and right side.



- Release the screws (1) on centre console trim (2).



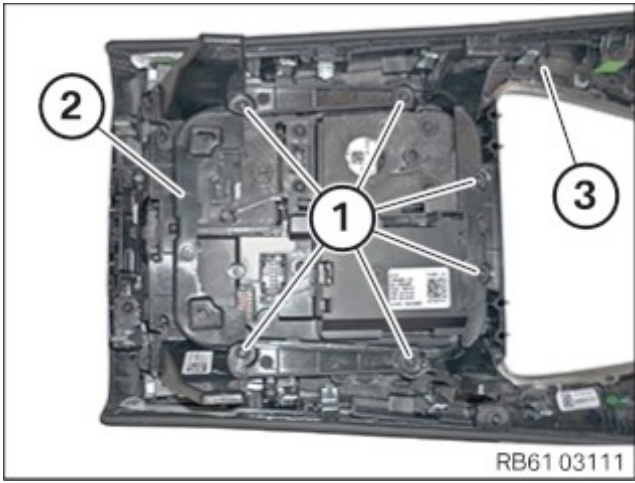
- Lever out the centre console trim (1) **without** the tool set at the rear right and left from the clamps (2).



- Lift the centre console trim (1) at the rear slightly.
- Unlock the associated plug connections and disconnect.
- Guide out centre console trim (1) towards the rear and remove.

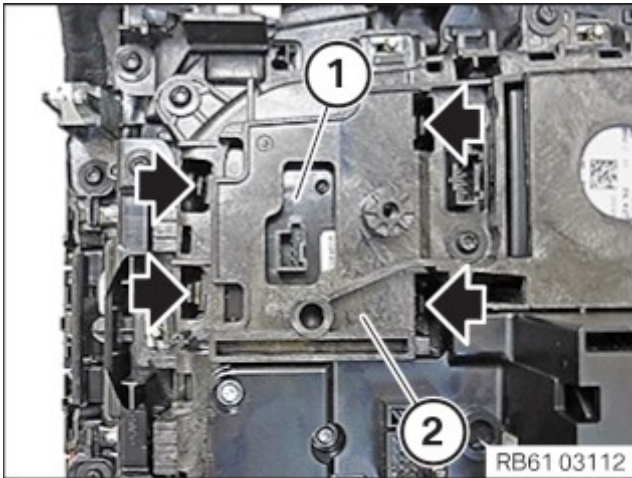
5-Removing the holder on the centre console trim

- Loosen screws (1).
- Remove holder (2) from the centre console trim (3).



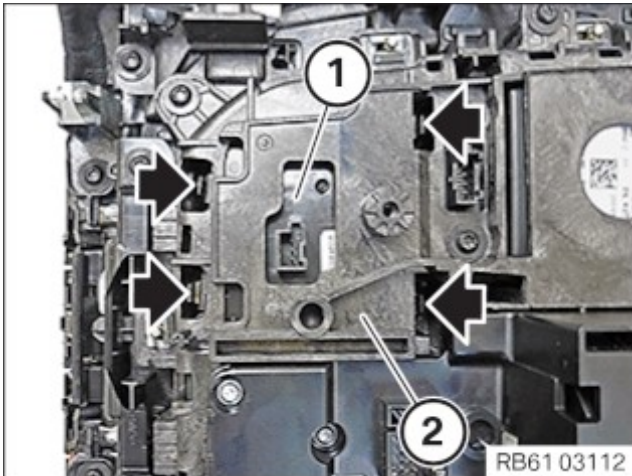
MAIN WORK

6-Removing the HDC button



- Release the latch mechanisms (arrows).
- Remove the HDC button (1) from the gear selector switch (2).

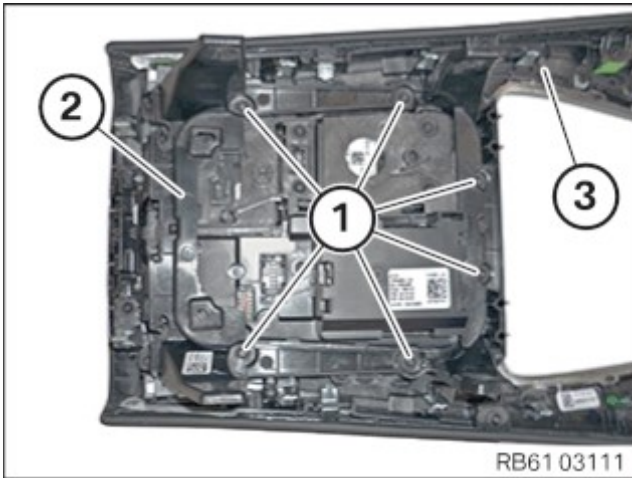
7-Installing the HDC button



- Position the HDC button (1) on the gear selector switch (2).
The latch mechanisms (arrows) must engage audibly.

POSTPROCESSES

8–Install the older on the centre console trim



- Position holder (2) on the centre console trim (3).
- Tighten the screws (1).

Holder to centre console trim



Screw	Tightening torque
	1,8 Nm

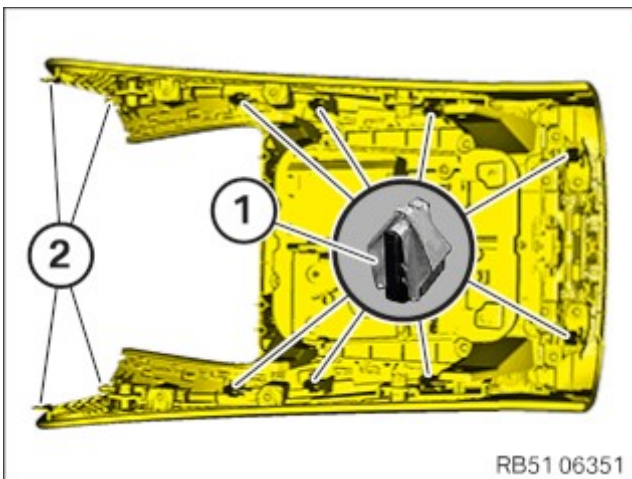
9–Installing the centre console trim

RISK OF DAMAGE

Careless handling of tools and sharp-edged components.

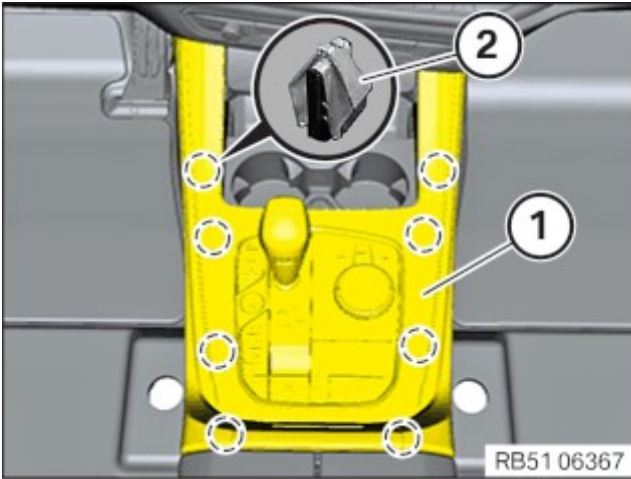
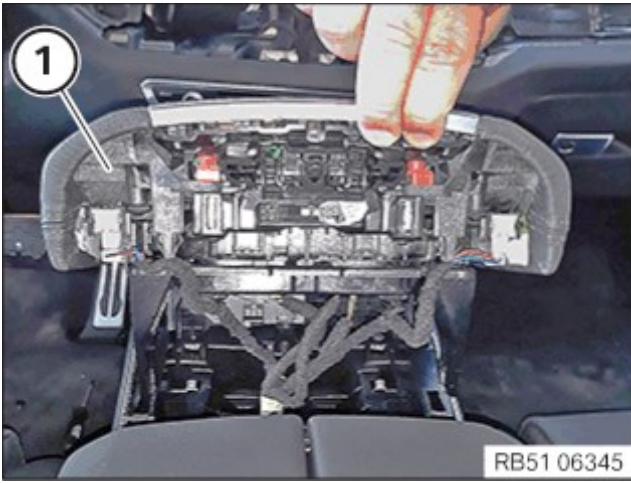
Scratch, surface damage.

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

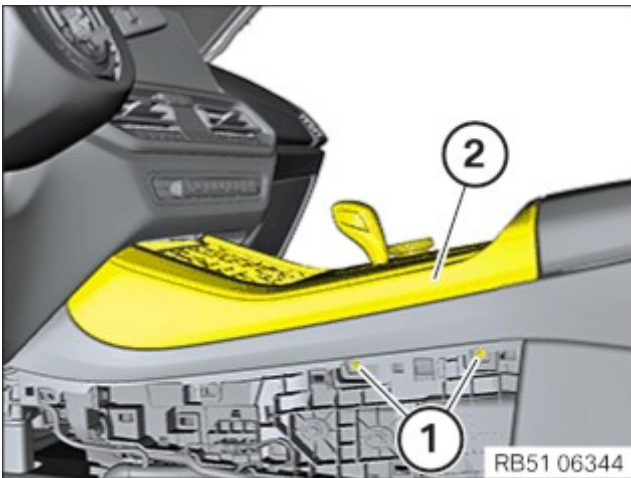


- Check clamps (1) for damage.
- Renew faulty or missing clamps (1).
- Check guides (2) for damage and, if necessary, renew the centre console trim.

- Insert the centre console trim (1).
- Connect and lock the associated connectors.



- Correctly position the centre console trim (1) and engage at the clamps (2).



NOTICE

Perform the operations on the left and right side.

- Tighten the screws (1) at the centre console trim (2).

Centre console trim to centre console



Oval-head screw	Tightening torque	2,4 Nm
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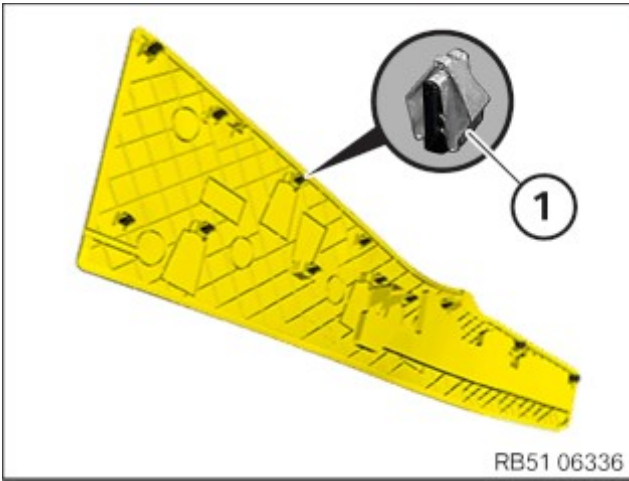
10-Installing the carpet on the left and right sides of the centre console

NOTICE

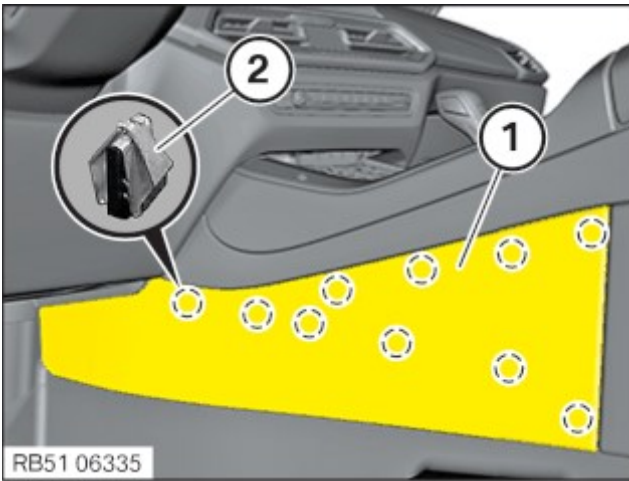
Description is for left component only. Procedure on the right side is identical.

► Installing the carpet on the side of the centre console

- Check all clamps (1) for damage; renew if necessary.



The clamps (1) must not be damaged or missing.



- Clip in the carpet at the side of the centre console (1) starting from the front at the clamps (2) and install.



11–Connecting all battery earth leads

[Additional information is available.](#)



- See additional information.

12–Activating the 48 V electrical system

[Additional information is available.](#)

Prerequisite

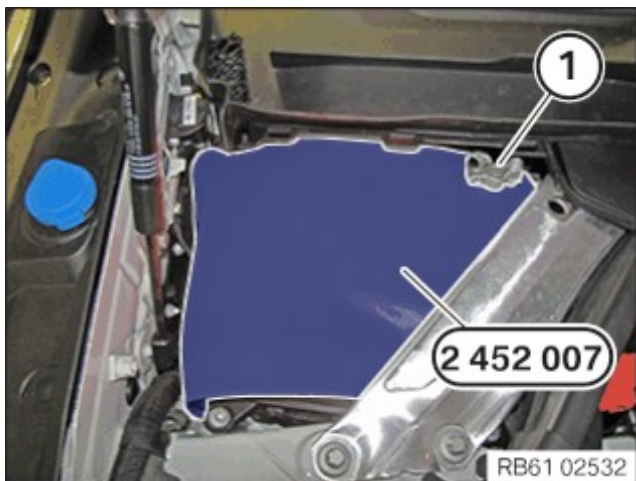
Ignition is switched off.

RISK OF DAMAGE

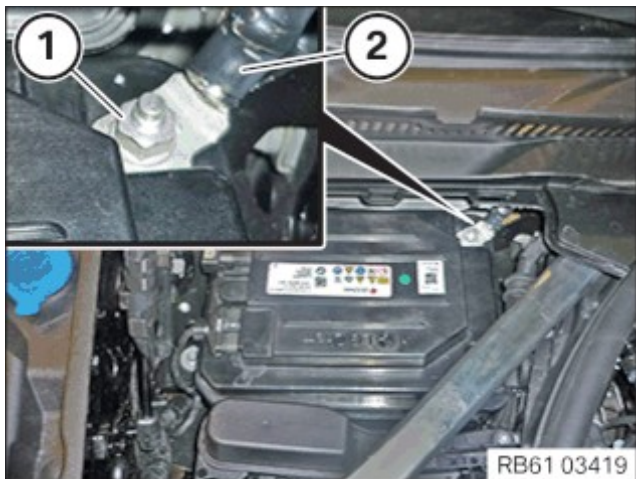
Damage to 48-V battery

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

- Only carry out activation of the 48V electrical system with a completely connected 48-V battery.



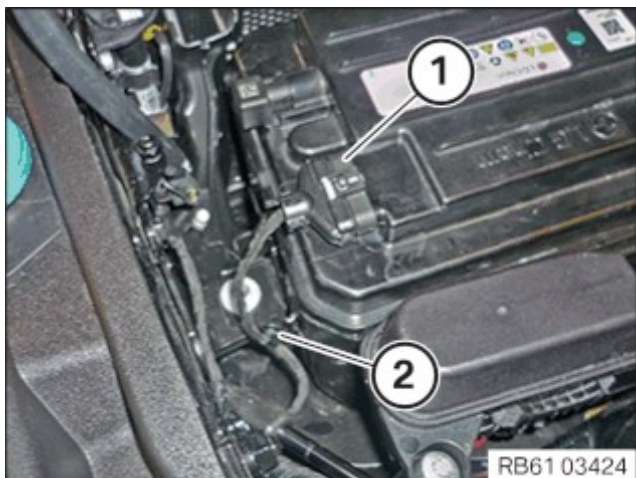
- Lift battery earth lead (1).
- Remove special tool **2 452 007**.



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

Negative battery cable to 48-V battery

Nut M8		Tightening torque	19 Nm
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- Connect the connector (1) of the CAN bus and lock it.
- Clip in clip (2).



- Activate the 48V electrical system by closing the bonnet.
The activation takes place automatically.