

51 11 230 Remove and install front bumper panel lower section

Overview of Activities

Additional Information

Preliminary Work

- 1 Remove the seal for the bonnet in front
- 2 Removing the centre engine compartment cover
- 3 Partially releasing the front left and right wheel arch trim panels
- 4 Partially removing the temperature sensor
- 5 Remove front bumper panel

Main Work

- 6 Removing the bumper panel lower section
- 7 Installing the bumper panel lower section

Postprocesses

- 8 Install bumper panel, front
- 9 Partially installing the temperature sensor
- 10 Partially installing the front left and right wheel arch trim panels
- 11 Installing the cover for the centre engine compartment
- 12 Install the seal for the front bonnet



General information



RISK OF DAMAGE

Mechanical effects.

Paint damage.

- Mask those working areas at risk with yellow plastic adhesive tape.
- Remove and install heavy or bulky components with the aid of another person/other persons.

i TECHNICAL INFORMATION

To guarantee the quality of the driver assistance functions in vehicles with concealed radar sensors installed, the component may only be repainted by observing the repair specifications described in the document "Standards for repair painting with sensor systems".

Sourcing reference:

<https://colorsystem-paint.com/>

Aftersales Information Research (AIR) - Repair and service messages - HG99 - [ColorSystem](#)

ISTA - HG99 - [ColorSystem](#)

No stickers or foils (transparent or coloured) may be attached in the radiation areas of the radar sensors.

The component may be painted if no radar sensors have been installed.

The following features can be used to identify whether radar sensors are installed on the vehicle:

Radar sensors are installed at the rear if the triangular warning light is located on the exterior mirror (in the mirror glass or on the mirror frame).

Radar sensors are installed at the front and rear if the triangular warning light is located on the exterior mirror (in the mirror glass or on the mirror frame) in conjunction with the optional equipment S5ATA or S5AUA.

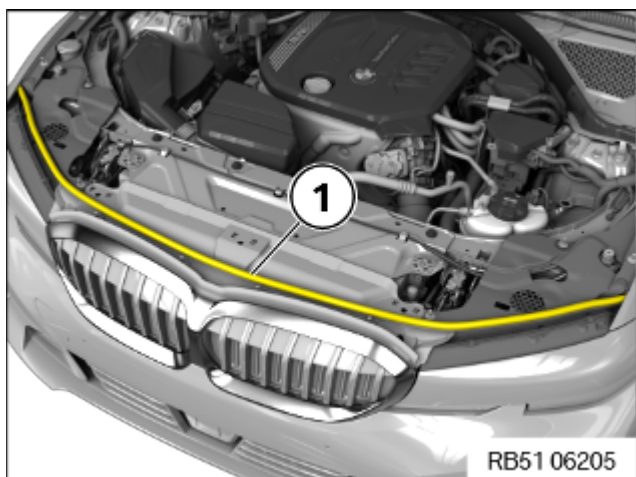
PRELIMINARY WORK

1-Remove the seal for the bonnet in front



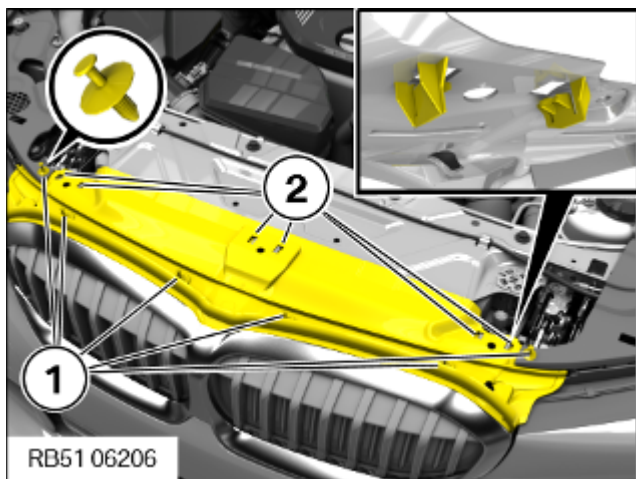
NOTICE

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



- Pull off front bonnet seal (1) upwards.

2-Removing the centre engine compartment cover



- Detach all expanding rivets (1).
- Release the cover at the latch mechanisms (2) and feed it out to the rear.

3-Partially releasing the front left and right wheel arch trim panels

NOTICE

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



► Partially removing front wheel arch trim panel

NOTICE

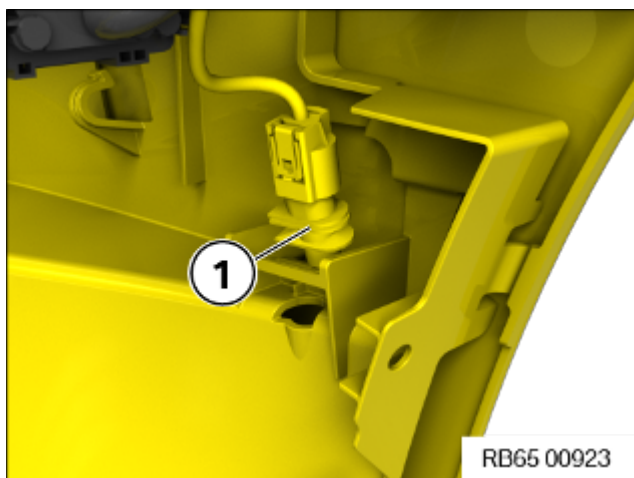
To provide a better overview: Schematic diagram without front wheel.

- Loosen screws (1).
- Fold the front wheel arch trim panel to one side.



4-Partially removing the temperature sensor

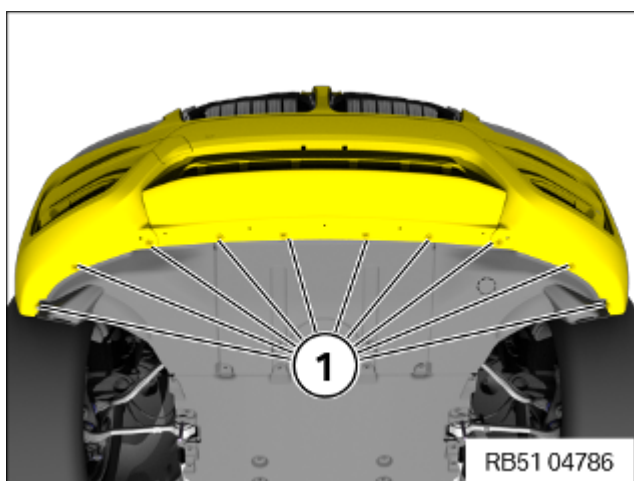
- Unclip temperature sensor (1) from the front bumper panel to the top.



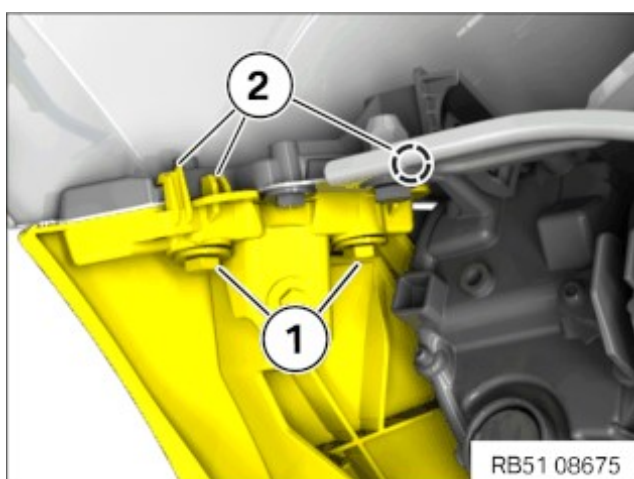
5-Remove front bumper panel

NOTICE

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- Loosen screws (1).



NOTICE

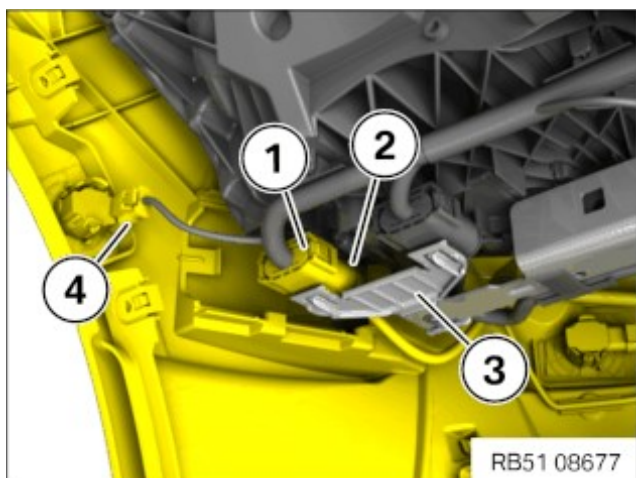
Perform the steps on the left and right side.

- Loosen screws (1).
- The bumper panel with the latch mechanisms (2) is to be released and removed from the guide.

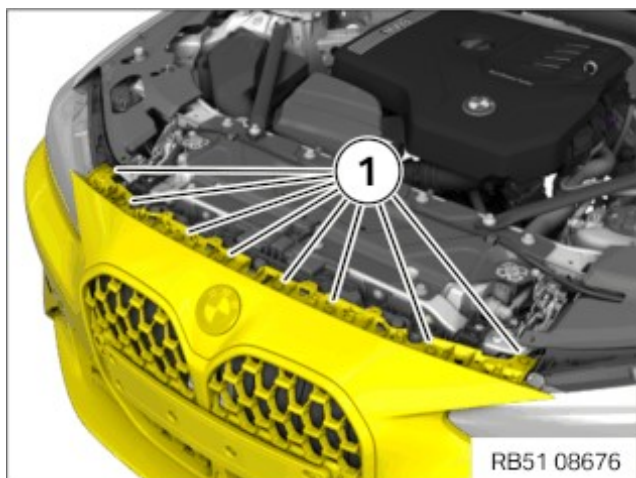
NOTICE

Perform the steps on the left and right side.

- Unlock plug connection (1) and disconnect.
- Unclip the connector (2) from the holder (3).



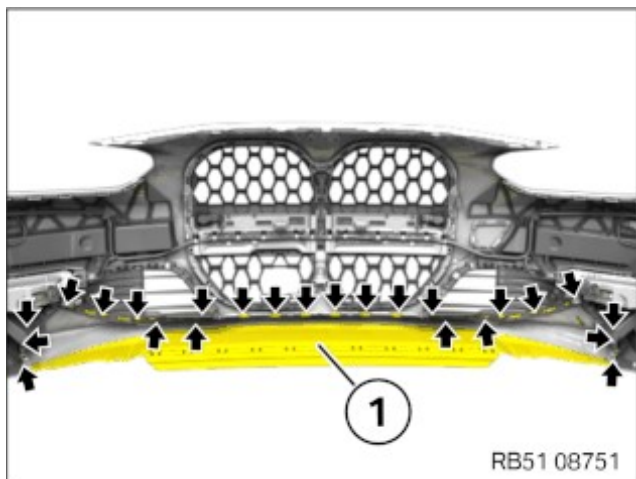
- If necessary, unlock and disconnect the plug connection (4).



- Loosen screws (1).
- Remove the bumper panel towards the front.

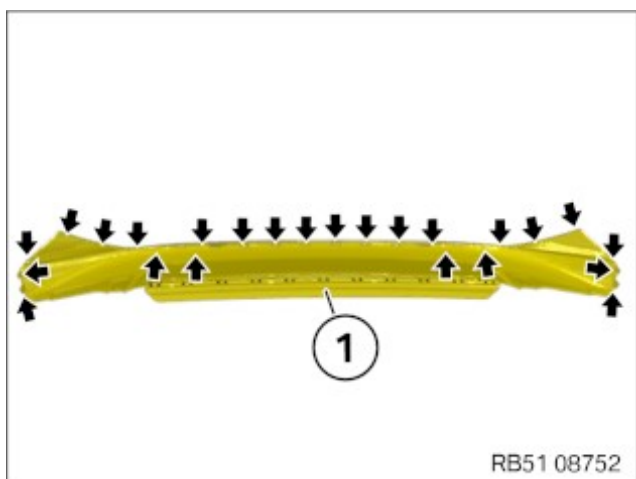
MAIN WORK

6-Removing the bumper panel lower section



- Release the bumper panel lower section (1) from the latch mechanisms (arrows) and remove it.

7-Installing the bumper panel lower section



Check

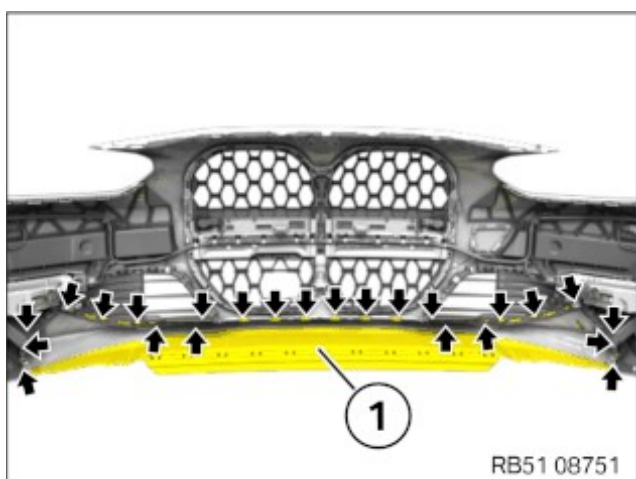
- Check the latch mechanisms (arrows) on the bumper panel lower section (1) for damage.

Result

» The latch mechanisms (arrows) are damaged.

Measure

- Renew bumper panel lower section (1).
- Position bumper panel lower section (1) and clip it into the latch mechanisms (arrows).

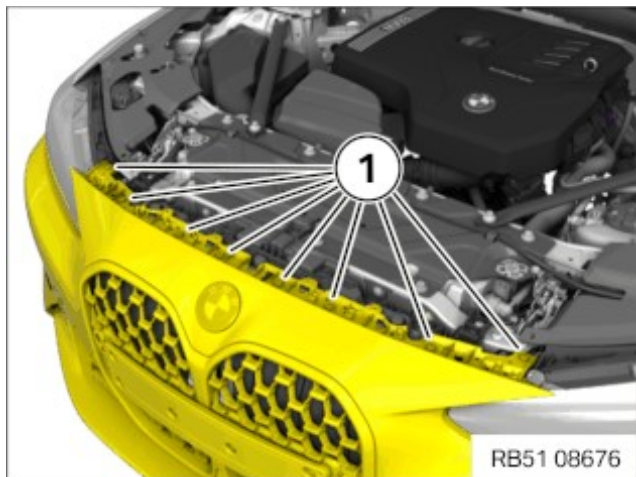


POSTPROCESSES

8-Install bumper panel, front

NOTICE

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

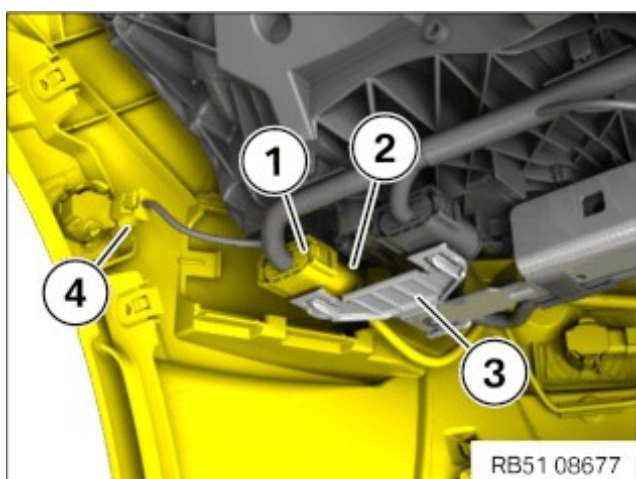


- Fit the bumper panel from the front and position it.
- Tighten the screws (1).

Bumper panel, front top



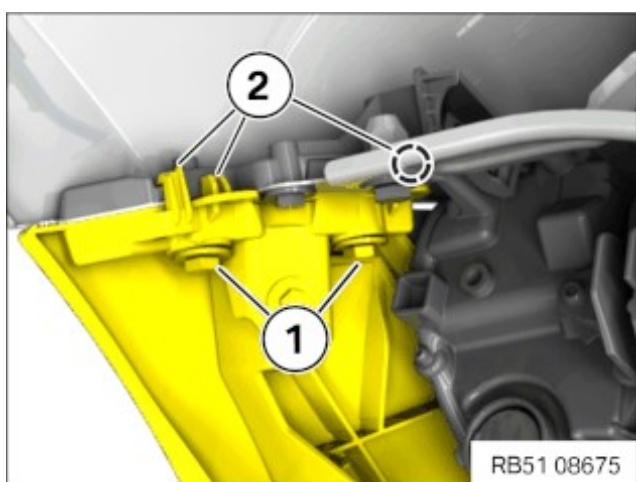
Oval-head screw M6		Tightening torque	4,6 Nm
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NOTICE

Perform the steps on the left and right side.

- Clip in the connector (2) in the holder (3).
- Connect connectors (1) and lock.
- If necessary, connect and lock the connector (4).



- Feed in the bumper panel in the guide and clip in with the latch mechanisms (2).

NOTICE

Perform the steps on the left and right side.

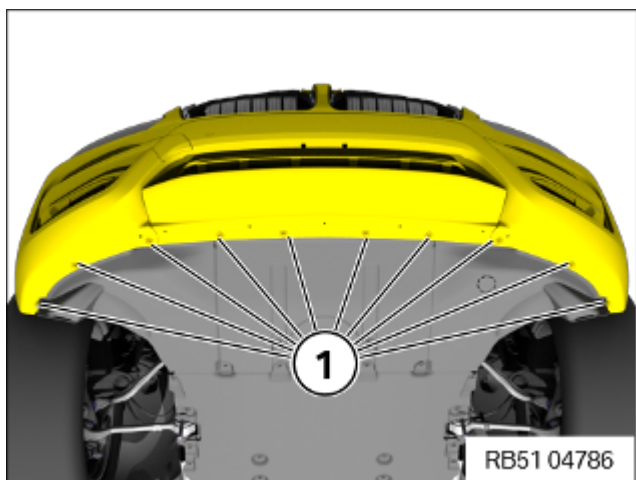
- Tighten the screws (1).

Front bumper panel to front side panel



Torx screw 5x35		Tightening torque	3 Nm
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- Tighten the screws (1).



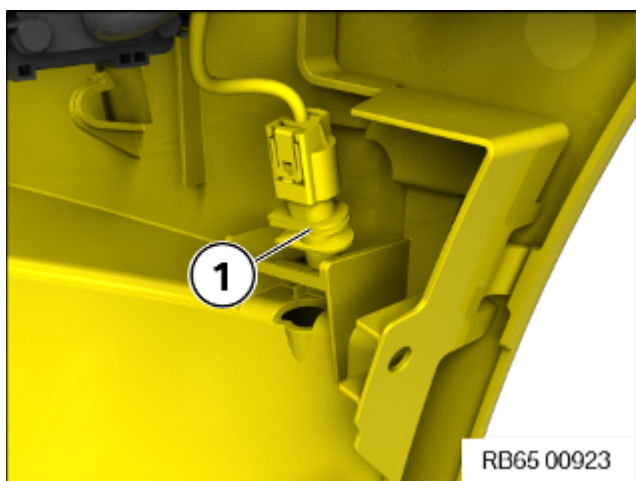
Front bumper panel to underbody protection

Hexagon
screw for
thermopl
astic

Tightening
torque

2,6 Nm

9–Partially installing the temperature sensor

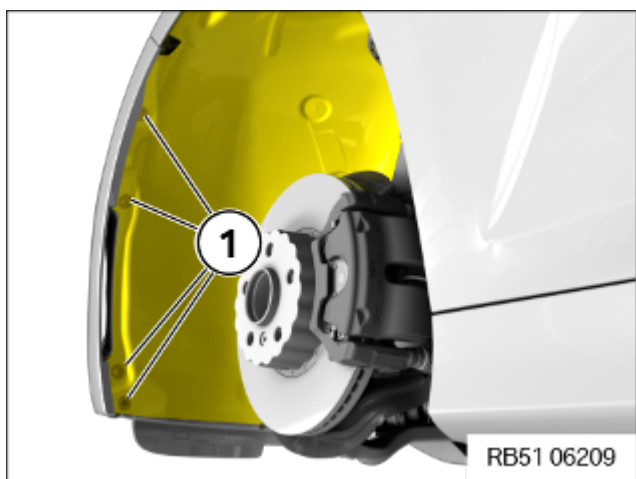


- Clip the temperature sensor (1) downwards into the front bumper panel.

10–Partially installing the front left and right wheel arch trim panels

NOTICE

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



► Partially installing front wheel arch trim panel

NOTICE

To provide a better overview: Schematic diagram without front wheel.

- Fold back the front wheel arch trim panel.
- Tighten the screws (1).

Wheel arch trim panel, front



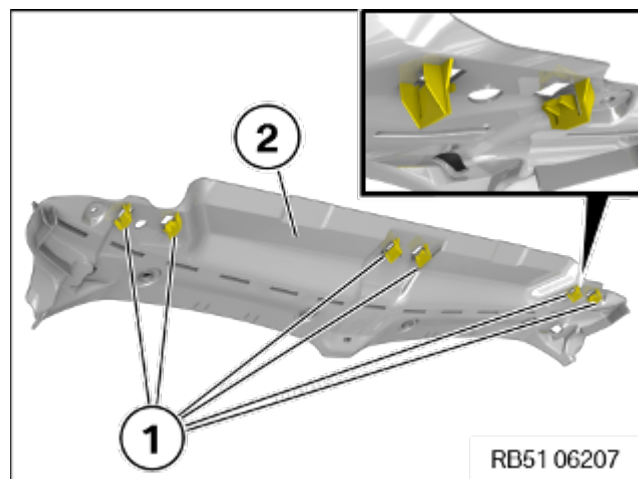
Thermopl
astic hex
agon scr
ew

Tightening
torque

2,6 Nm



11-Installing the cover for the centre engine compartment



Check

- Check the latch mechanisms (1) of the cover (2) for damage. 

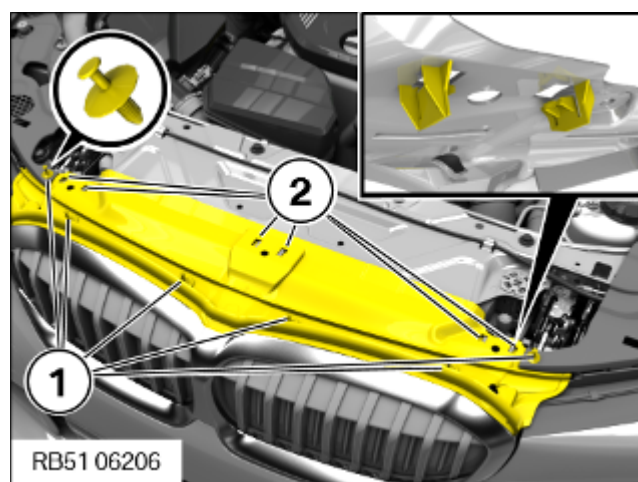
Result

» Latch mechanisms (1) are damaged.

Measure

- Replace the cover (2).

Parts: Cover



- Insert the cover from the rear and position it.
- Clip in the latch mechanisms (2).
- Mount all expanding rivets (1).

12-Install the seal for the front bonnet

NOTICE

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

- Position the bonnet seal (1) and connect it on the mounting on the bumper and on the headlights.

