



# INSTALLATION INSTRUCTIONS

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**X5M/X6M Billet Engine Strut Brace**

**CARBAHN PART #:  
CBB12-00-3934**



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**These instructions assume that the person installing these parts is a *BMW CERTIFIED MECHANIC* and are *NOT* step by step instructions on how to disassemble and reassemble the car.**

1. See TIS instructions for removing and replacing the engine strut brace as appended below. Instead of replacing the OEM engine strut brace, place the new CarBahn engine strut brace.

BMW Group - AIR: 2024-08-13 / 14:25  
Dealer: 32711/06  
Model: X5 M  
Vehicle identification number: 5YMJU0C07N9K35199  
Development code: F95  
Model code: JU03  
Lead type: JU03

Remove and install/replace front-end strut »

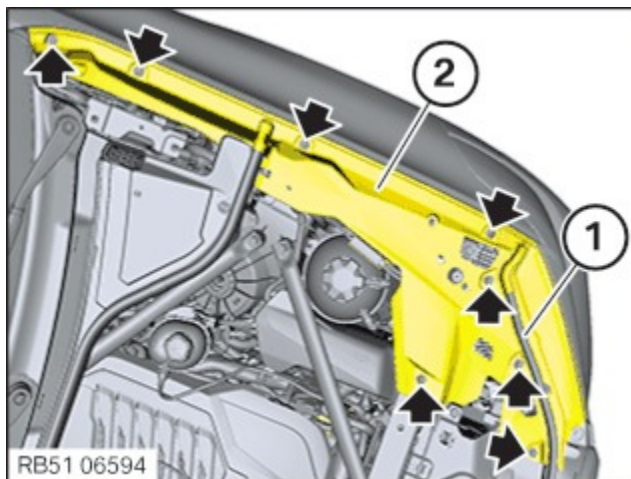
## **i** TECHNICAL INFORMATION

Driving without the strut brace/front-end strut or tension strut is not permitted.

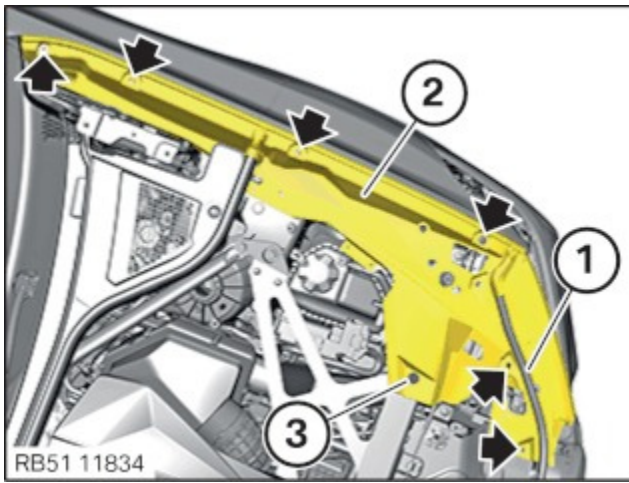
### Preliminary work

#### Removing the top right and left cover in the engine compartment

##### Remove the cover in the engine compartment on top



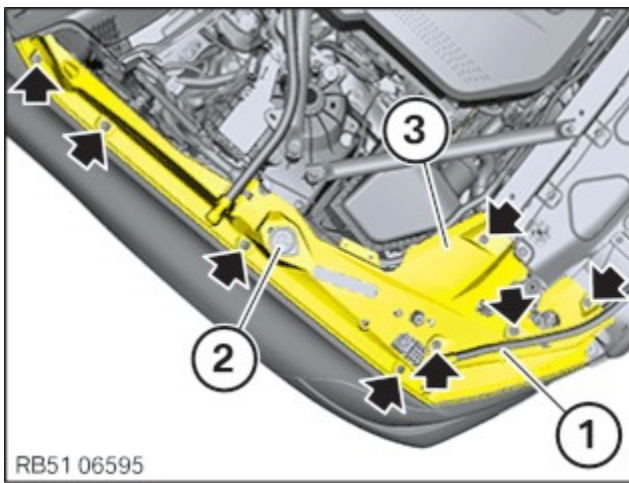
- Loosen the seal for hood (1) in the area of cover (2) using the special tool 2 298 505 on the clips.
- Release the expanding rivets (arrows).
- Guide out and remove the cover (2).



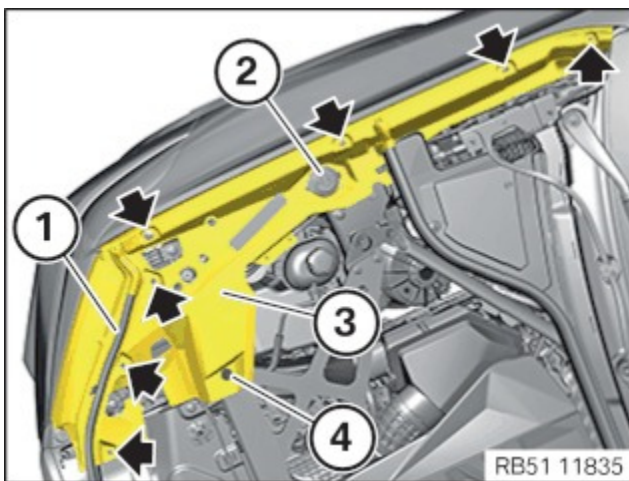
Only for F95/F96 LCI vehicles:

- Loosen the seal for hood (1) in the area of cover (2) using the special tool 2 298 505 on the clips.
- Release the expanding rivets (arrows).
- Loosen screw (3).
- Guide out and remove the cover (2).

#### Remove the top right cover in the engine compartment



- Loosen the seal for hood (1) in the area of cover (3) using the special tool 2 298 505 on the clips.
- Release the expanding rivets (arrows).
- Open and remove the cover (2) of the washer fluid reservoir.
- Guide out and remove the cover (3).



Only for F95/F96 LCI vehicles: Loosen the seal for

- the hood (1) in the area of the cover (3) on the clips using the special tool 2 298 505 . Release the expanding rivets (arrows). Open
- and remove the cover (2) of the washer fluid reservoir.
- Loosen screw (4).
- Feed out the cover (3) and remove.

#### Removing the acoustic cover



## RISK OF DAMAGE

Damage to the acoustic cover / design cover.

Jerky movements during disassembly and application of excessive force during installation may result in breakage of the acoustic cover / design cover.

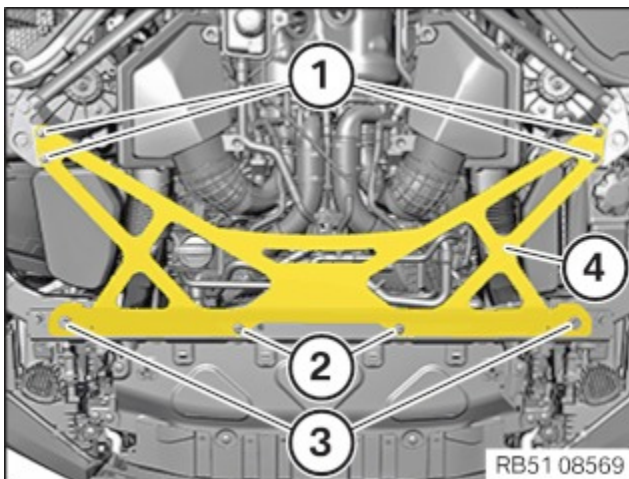
- Disassemble or mount the acoustic cover / design cover carefully.
- Disassemble or mount snap-lock couplings of the ball pivots one after the other.
- Disassemble or mount the acoustic cover / design cover only at temperatures > 20 °C.
- Use only distilled water as an auxiliary material during installation, no lubricants.



- Unclip acoustic cover (1) from the top and remove.

## Main Works

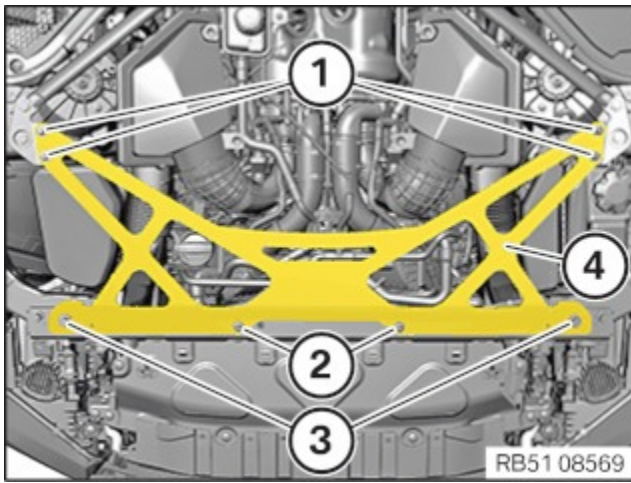
### Removing the front-end strut



- Release the screws (1) to (3).
- Remove the front-end strut (4).

### Installing the front-end strut





**CHECK HOLES FOR ALIGNMENT BEFORE REPLACING FASTENERS. RADIATOR CROSSBAR MAY NEED TO BE LOOSENED TO ALIGN BRACE.**

- Install the front-end strut (4).
- Tighten the screws (1).

**Tightening torques**

<b>Front-end strut to strut brace</b>	
Torx screw M8x30	Snug torque 28Nm Angle of rotation 90°

- Renew screws (2) (only for G09 vehicles).

Parts: Screw

- Tighten the screws (2).

**Tightening torques**

<b>Front-end strut to upper rear connection</b>	
Torx screw M8x30	Snug torque 28Nm Angle of rotation 90°
Hexagon screw M10x35	Tightening torque 50Nm

- Tighten the screws (3).

**Tightening torques**

<b>Front-end strut to upper rear connection</b>	
Torx screw M8x30	Snug torque 28Nm Angle of rotation 90°
Hexagon screw M10x35	Tightening torque 50Nm

**Follow-up works**

**Installing acoustic cover**

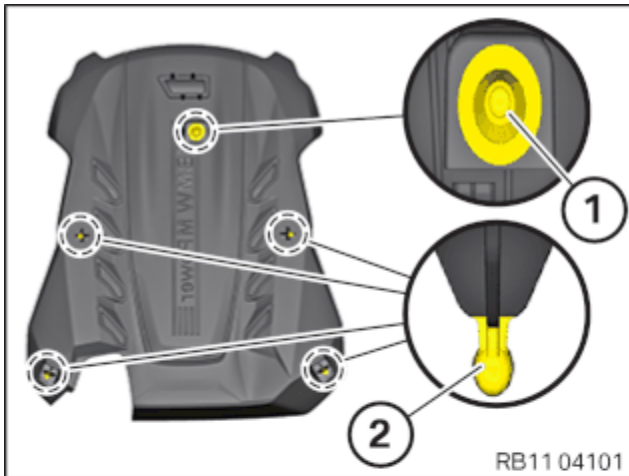
 **RISK OF DAMAGE**

Damage to the acoustic cover / design cover.

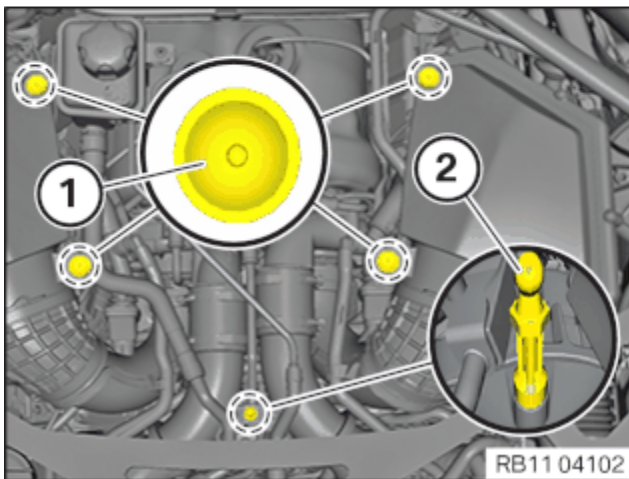
Jerky movements during disassembly and application of excessive force during

installation may result in breakage of the acoustic cover / design cover.

- Disassemble or mount the acoustic cover / design cover carefully.  
Disassemble or mount snap-lock couplings of the ball pivots one after the other.
- Disassemble or mount the acoustic cover / design cover only at temperatures > 20 °C.
- Use only distilled water as an auxiliary material during installation, no lubricants.
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- Check the detent pin (2) for damage and renew the acoustic cover if necessary.
- Check the acoustic cover for a correct fit of the rubber mount (1).



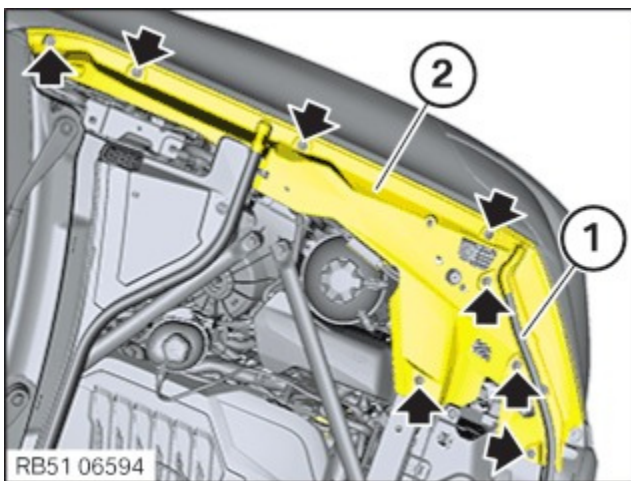
- Check rubber mount (1) for correct fit.
- Check the detent pin (2) for damage and renew if necessary.



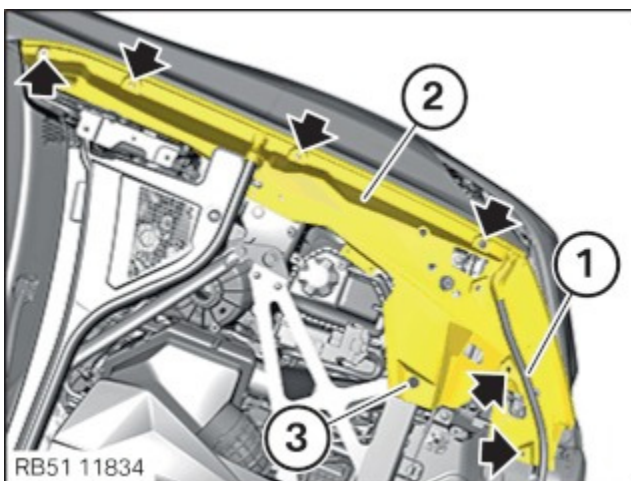
- Clip in the acoustic cover (1) into the holder.

Install the cover in the engine compartment at top left and right

Install the cover in the engine compartment on top



- Guide in and correctly position the cover (2).
- Clip the seal for hood (1) in the area of cover (2) to the clips.
- Mount the expanding rivets (arrows).



Only for F95/F96 LCI vehicles:

- Guide in and correctly position the cover (2).
- Clip the seal for hood (1) in the area of cover (2) to the clips.
- Mount the expanding rivets (arrows).
- Tighten down screw (3).

Tightening torques

Cover on front-end brace

M8x12 screw

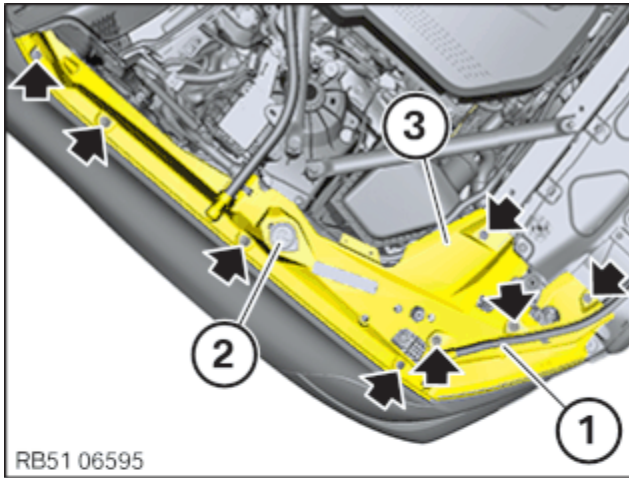
Tightening torque

8Nm

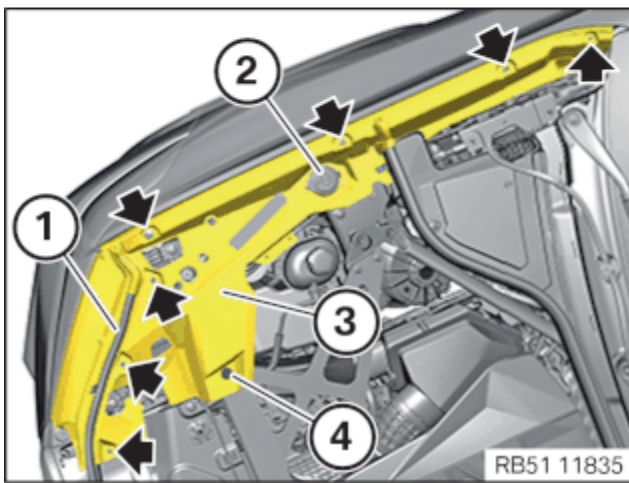
**EXCEPTION:** Instead of replacing bolt 3, insert and compress the supplied trim clip.



◀  
Install the cover in the engine compartment on the top right



- Guide in and correctly position the cover (3).
- Mount the expanding rivets (arrows).
- Clip the seal for hood (1) in the area of cover (3) to the clips.
- Mount the lid (2) of the washer fluid reservoir .



Only for F95/F96 LCI vehicles:

- Guide in and correctly position cover (3).
- Clip the seal for hood (1) in the area of cover (2) to the clips.
- Mount the expanding rivets (arrows).
- Tighten down screw (4).

#### Tightening torques

##### Cover on front-end brace

M8x12 screw	Tightening torque
	8Nm

- Mount the lid (2) of the washer fluid reservoir .

**EXCEPTION:** Instead of replacing bolt 4, insert and compress the supplied trim clip.