

Original BMW Accessories.

Installation instructions.



Retrofit kit - Dome strut

BMW 1 Series (E87)

BMW 3 Series (E46, E90)

BMW Z4 (E85)

Retrofit kit No.: E46: 51 710 395 077, Dome strut
E85: 51 710 305 114, Dome strut
E87 and E90: 51 710 406 937 Dome strut

Installation time

The installation time of approx. 0.5 hours can vary depending on the condition and equipment of the vehicle.

Important information

These installation instructions are mainly intended for use in the BMW dealership network as well as by authorised BMW Service Centers.

The target group of these installation instructions are technical personnel trained on BMW vehicles with corresponding technical know-how.

All work is to be carried out with the aid of currently valid BMW repair instructions, schematic diagrams, maintenance manuals and working instructions in rational order with the specified tools (special tools) while paying particular attention to valid safety regulations.

Should you encounter any problems during the installation procedure or operation, after briefly performing troubleshooting (about half an hour) contact one of the following in order to avoid unnecessary work and costs:

- 1. Either your national subsidiary or your regional office or**
- 2. the Support through the Aftersales Assistance Portal (ASAP) using the optional "Technical Support" application.**

Please quote the vehicle identification number as well as the part number of the installed retrofit kit and a detailed description of the problem.

All illustrations show LHD vehicles. Carry out the same procedure analogously on RHD vehicles.

Pictographs:



identifies information that draws attention to danger/hazards.



identifies information that draws attention to specific requirements.

◀ identifies the end of an information or warning text.

For key to pictographs, see EBA-CD or Aftersales Portal.

Do not archive the printout of these installation instructions as they are updated daily via the Aftersales Portal!

Subject to technical modifications.

Required special tools

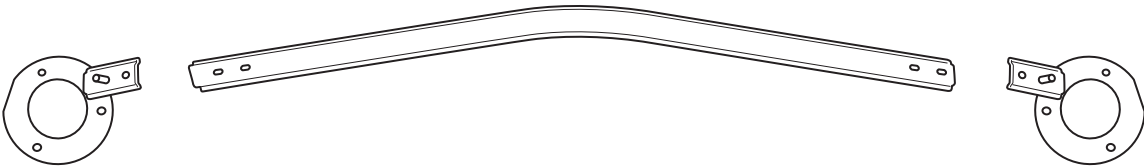
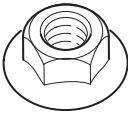
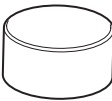
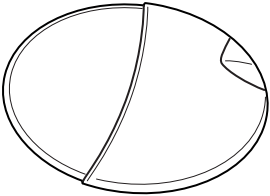
None

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1. Overview of parts BMW 3 Series (E46)

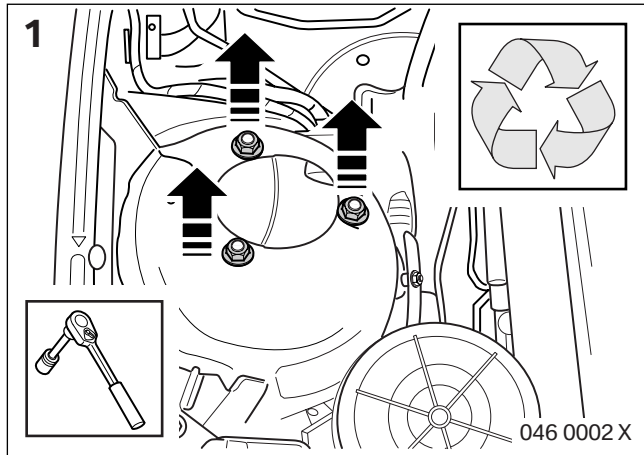
Dome strut

A 	
B  4x	C  6x
D  10x	E  2x 046 0001 X

Key

- A Dome strut
- B Nut (4x)
- C Nut (6x)
- D Protective cap (10x)
- E Protective cap (2x)

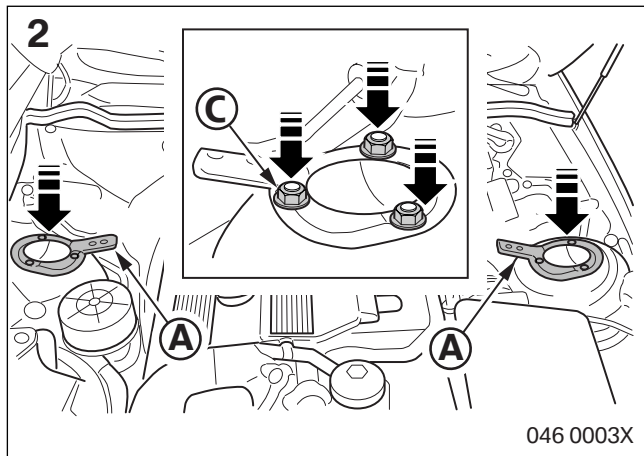
2. Installing dome strut BMW 3 Series (E46)



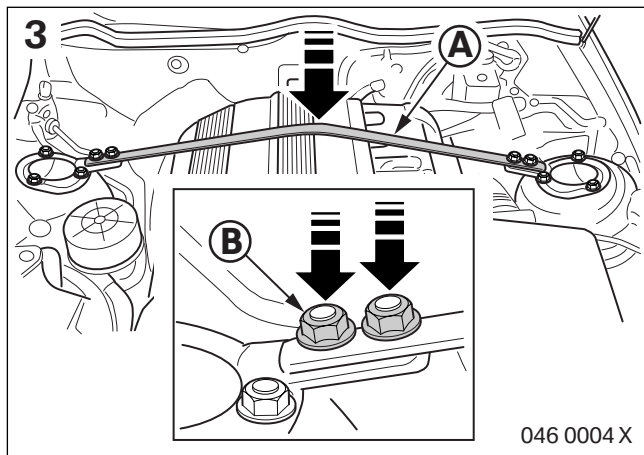
Remove the nuts from the left and right spring strut tower.



The nuts must not be reused. ◀

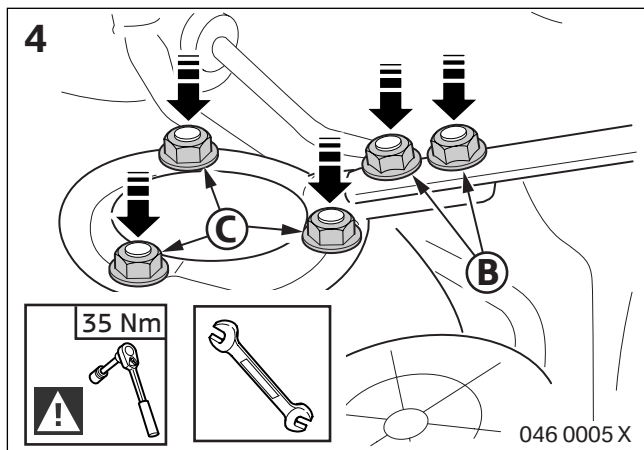


Fit dome strut plate **A** on the spring strut towers.
Hand-tighten nuts **C**.



Fit cross strut **A** on the dome strut plates with the bend facing towards the rear.

Hand-tighten nuts **B**.



Align/centre the dome strut.

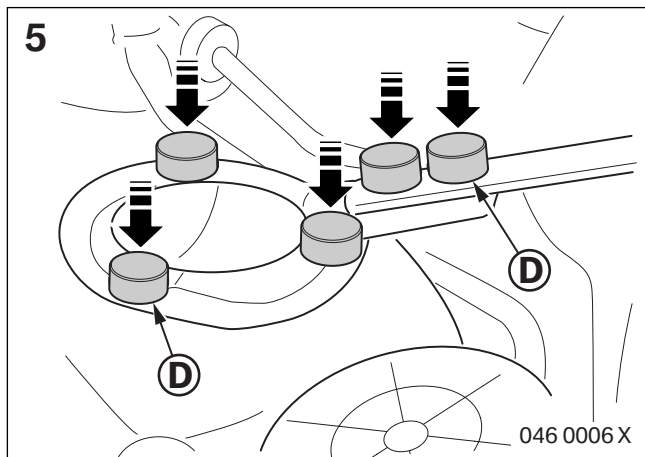
Use an open-ended spanner to tighten nuts **B**.

Use torque wrench to tighten nuts **C**.

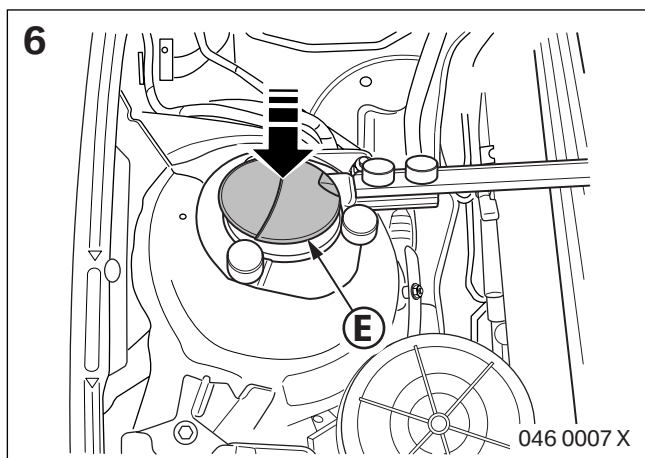


Tighten nuts **C** to the specified torque. ◀

2. Installing dome strut BMW 3 Series (E46)



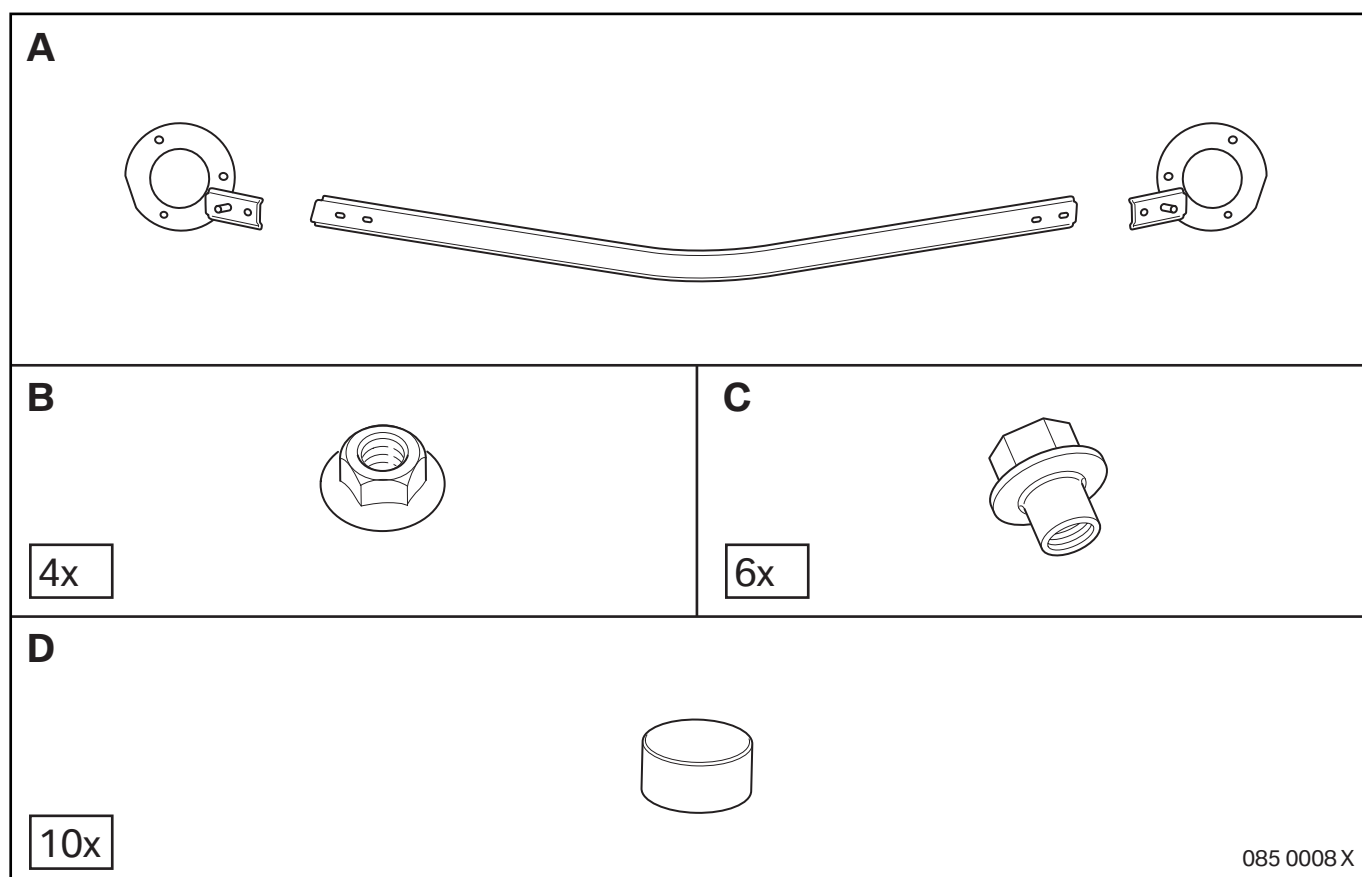
Fit protective caps **D** on the nuts.



Fit protective caps **E**.

3. Overview of parts BMW Z4 (E85)

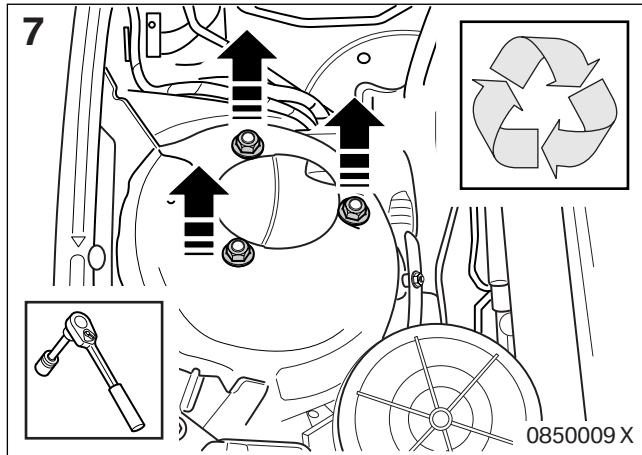
Dome strut



Key

- A Dome strut
- B Nut (4x)
- C Nut (6x)
- D Protective cap (10x)

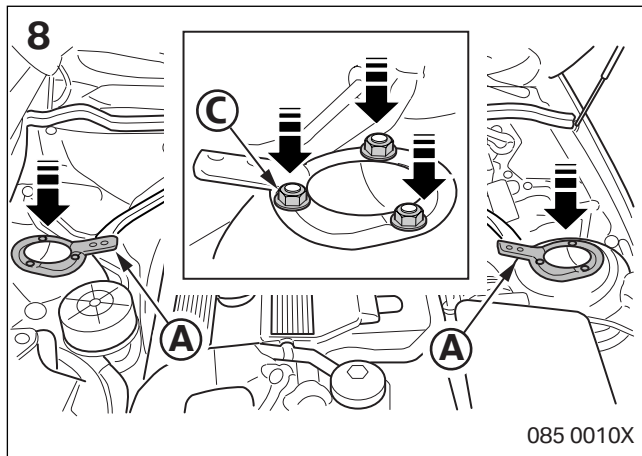
4. Installing dome strut BMW Z4 (E85)



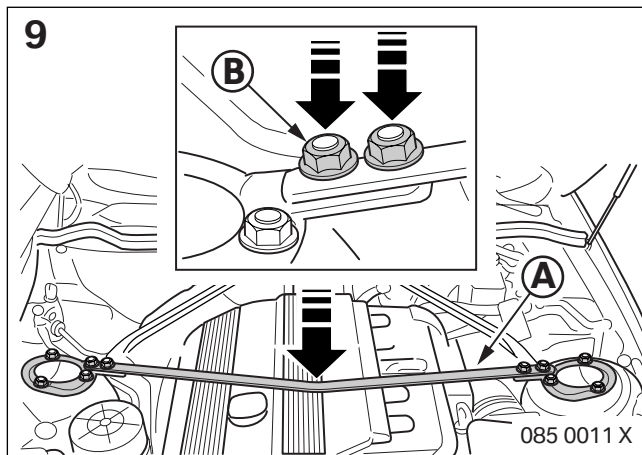
Remove the nuts from the left and right spring strut tower.



The nuts must not be reused. ◀

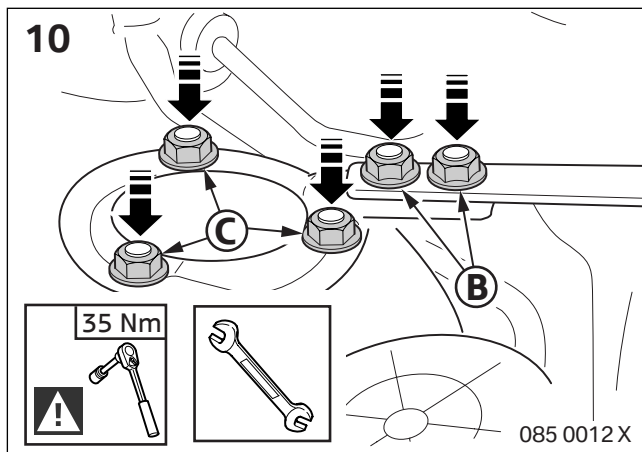


Fit dome strut plate **A** on the spring strut towers.
Hand-tighten nuts **C**.



Fit cross strut **A** on the dome strut plates
with the bend in forward direction.

Hand-tighten nuts **B**.



Align/centre the dome strut.

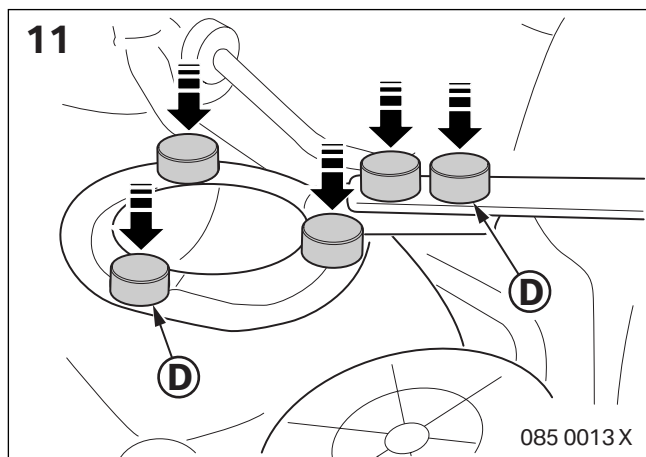
Use an open-ended spanner to tighten nuts **B**.

Use torque wrench to tighten nuts **C**.



Tighten nuts **C** to the specified torque. ◀

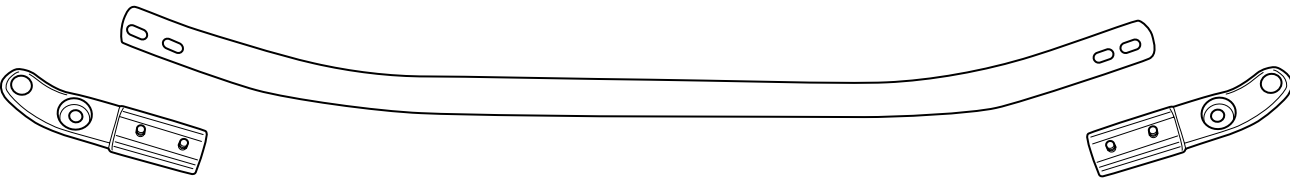
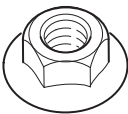
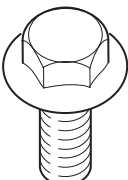
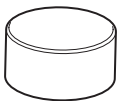
4. Installing dome strut BMW Z4 (E85)



Fit protective caps **D** on the nuts.

5. Overview of parts BMW 1 Series (E87) and BMW 3 Series (E90)

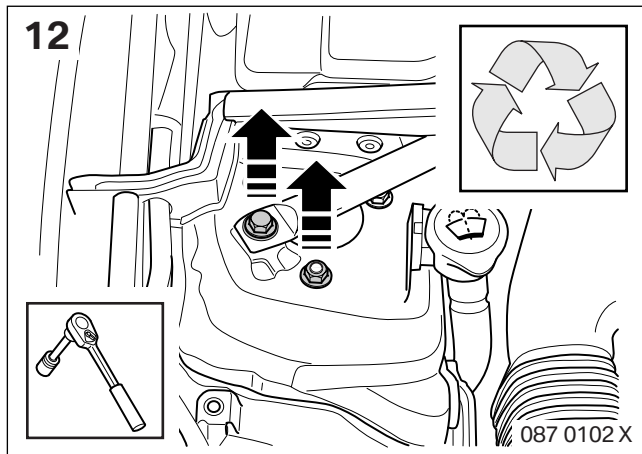
Dome strut

A 	
B  4x	C  2x
D  2x	E  6x 087 0101 X

Key

- A Dome strut
- B Nut (4x)
- C Nut (2x)
- D Hexagon head screw (2x)
- E Protective cap (6x)

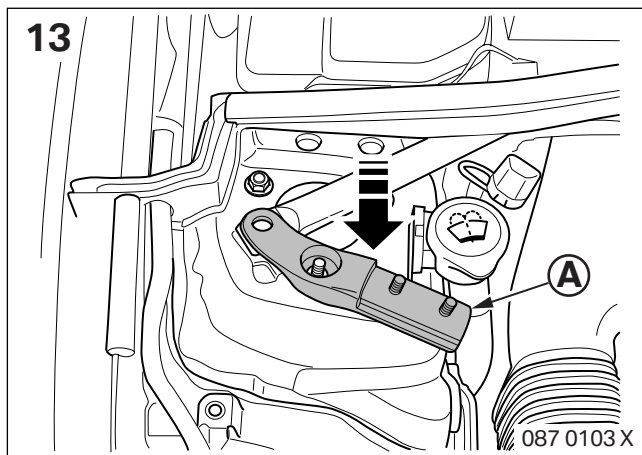
6. Installing dome strut BMW 1 Series (E87) and BMW 3 Series (E90)



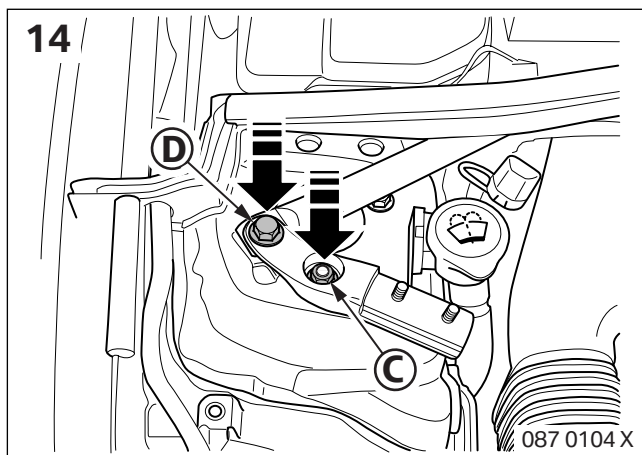
Remove the nuts from the left and right spring strut tower.



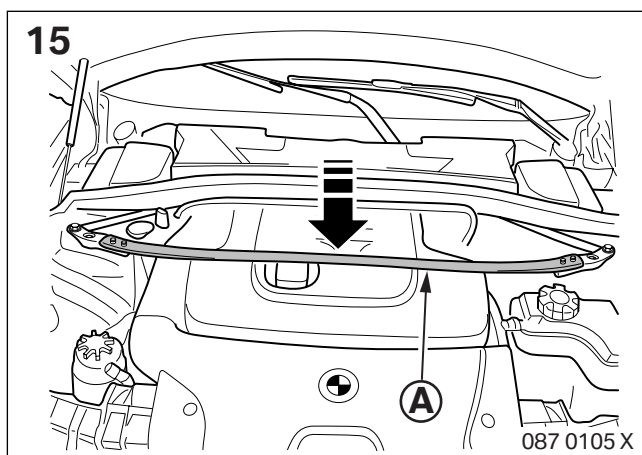
The nuts must not be reused. ◀



Fit dome strut brackets **A** on the spring strut towers and align.

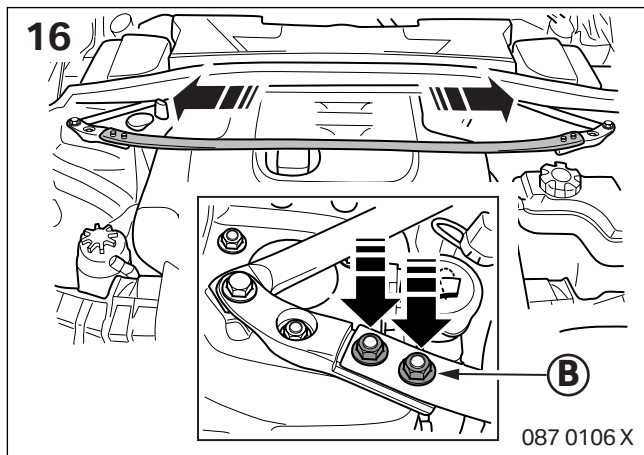


Screw on nuts **C** and **D** and hand-tighten.



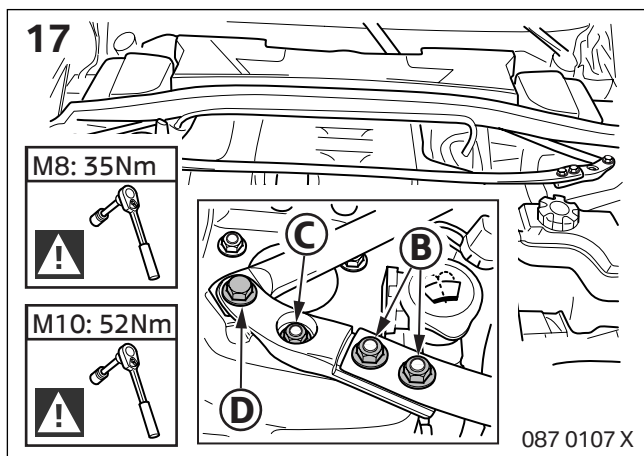
Fit cross strut **A** on the dome strut brackets.

6. Installing dome strut BMW 1 Series (E87) and BMW 3 Series (E90)



Align/centre cross strut.

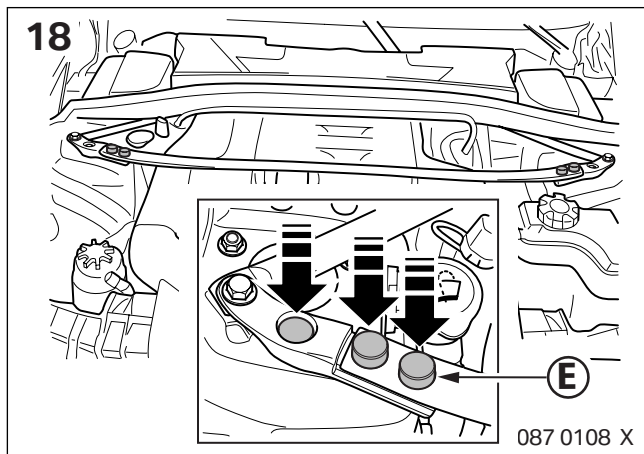
Hand-tighten nuts **B**.



Use a torque wrench to tighten nuts **B** and **C** as well as screws **D**.



Tighten nuts **B** and **C** as well as screws **D** to the specified torque. ◀



Fit protective caps **E**.