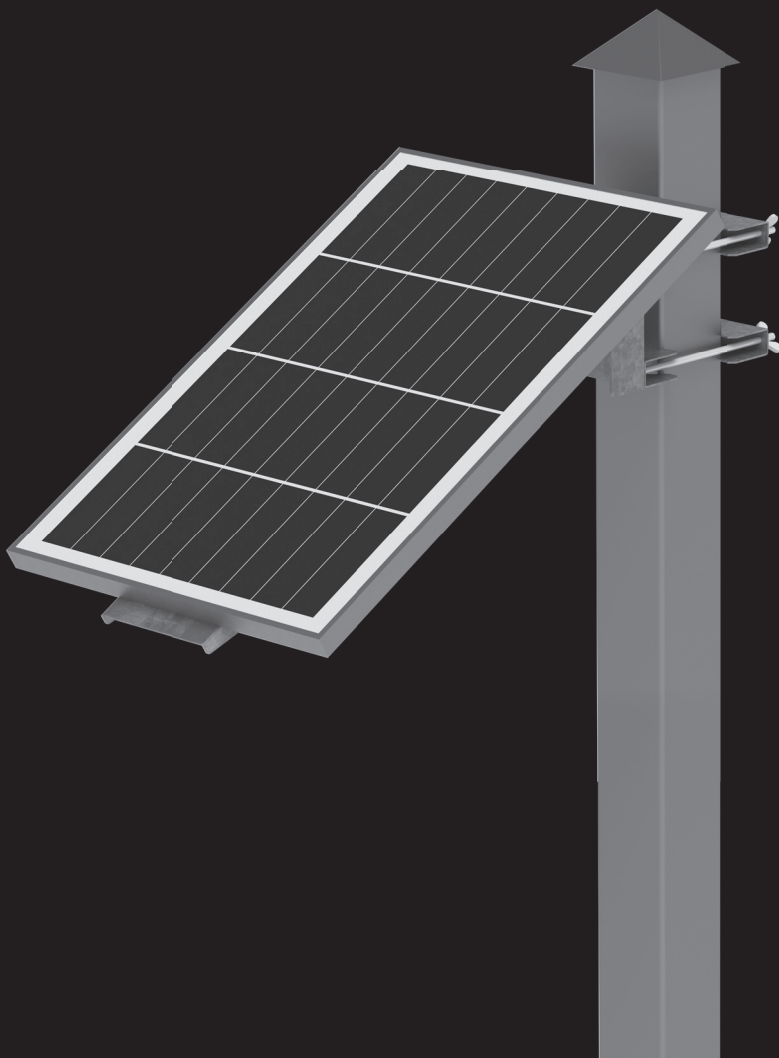


Solar panel mounting bracket installation manual



Company profile



1986



1990



1995

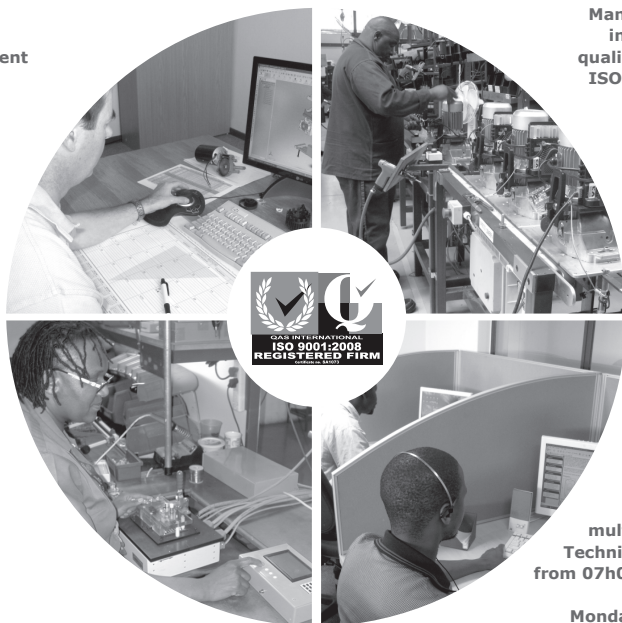


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SAFETY FIRST

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IMPORTANT SAFETY INSTRUCTIONS

ATTENTION

To ensure the safety of people and possessions, it is important that you read all the following instructions.

Incorrect installation or incorrect use of the product could cause serious harm to people and / or property.



The installer, being either professional or DIY, is the last person on the site who can ensure that the operator is safely installed, and that the whole system can be operated safely.

Warnings for the installer

CAREFULLY READ AND FOLLOW ALL INSTRUCTIONS before beginning to install the product.

- Installation of the **Solar panel mounting bracket** must be carried out by a suitably qualified person
- Do not in any way modify the components
- Do not leave packing materials (plastic, polystyrene, etc.) within reach of children as such materials are potential sources of danger
- Neither Centurion Systems (Pty) Ltd, nor its subsidiaries, accepts any liability caused by improper use of the product, or for use other than that for which the automated system was intended
- This product was designed and built strictly for the use indicated in this documentation. Any other use, not expressly indicated here, could compromise the service life/operation of the product and/or be a source of danger
- The installer must explain the operation of the **Solar panel mounting bracket** and any safety hazards to the end-user. Refer to section "Installation handover"
- **Anything not expressly specified in these instructions is not permitted**

1. General description

This **solar panel mounting bracket** is a robust and versatile galvanised mild steel bracket suitable for mounting a variety of solar panels between 20W and 150W in size, against a wall or on a post. The fixed bracket included with the kit provides limited orientation capability and can be pivoted in a number of ways in order for the panel to obtain optimum sunlight coverage.

The Gooseneck, which can be purchased as an optional accessory, allows for full flexibility, elevation and azimuth adjustment.

2. Icons used in this manual



This icon indicates tips and other information that could be useful during the installation.



This icon denotes variations and other aspects that should be considered during installation.



This icon indicates warning, caution or attention! Please take special note of critical aspects that **MUST be adhered to in order to prevent injury.**

3. Product identification

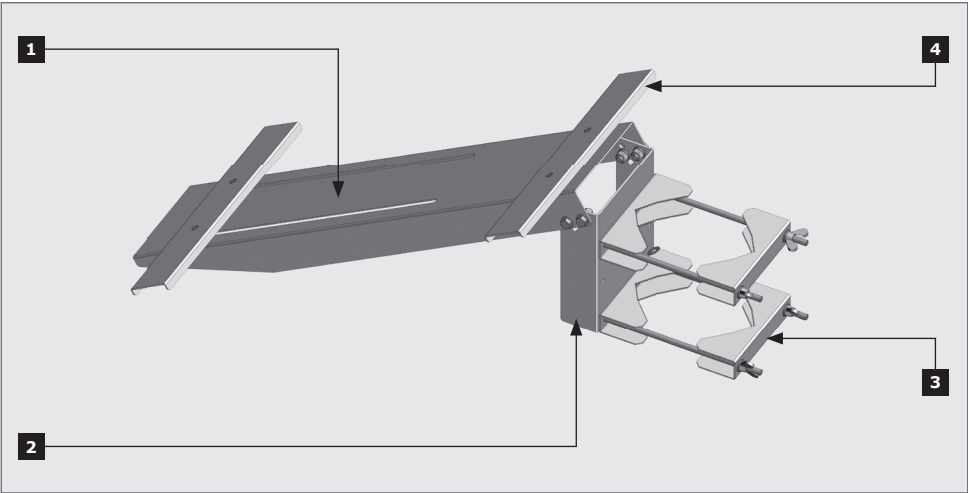
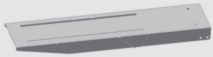
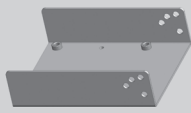
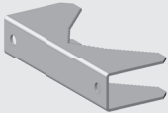

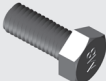







FIGURE 1. PRODUCT IDENTIFICATION

1. Main body
2. Base mount
3. Clamp
4. Panel mount plate

No.	Part	Qty.
1		x1
2		x1
3		x4
4		x2

No.	Part	Qty.
A		x4 M8x20
B		x16 M8
C		x12 M8
D		x8 M8
E		x4 M8x250
F		x4 M8

4. Required tools

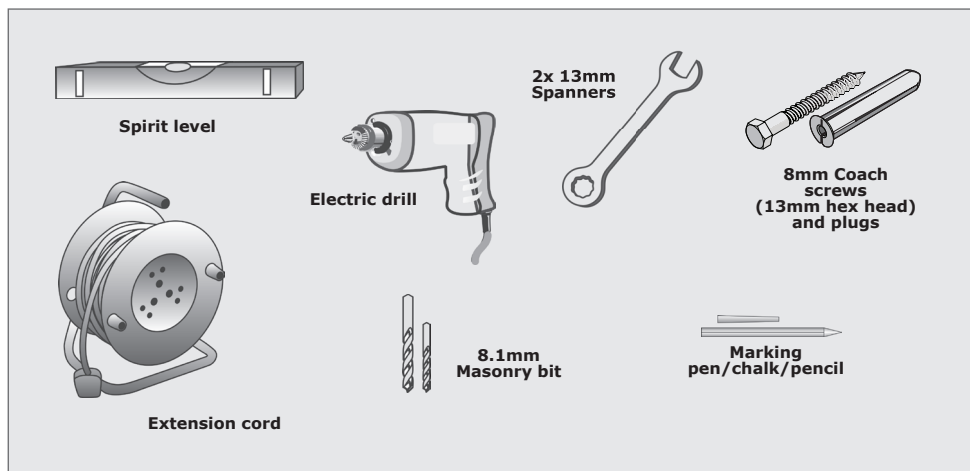


FIGURE 2. REQUIRED TOOLS AND EQUIPMENT

5. Site considerations

5.1. General considerations for the installation

- Decide on whether the bracket is to be mounted onto a wall or against a square or cylindrical post. However, a cylindrical post is recommended as there is more freedom when positioning to find optimum sun exposure
- For wall-mount installations, masonry fasteners sized for a 10.5mm hole must be used
- The solar panel mounting bracket is suitable for mounting onto posts with a width or diameter of 40mm to 100mm
- Make sure that there is enough clearance to be able to rotate the solar panel to a maximum sun exposure position

Please note that this bracket can accommodate up to a 150W solar panel. For brackets rated between 20W and 80W, align the short edge of the solar panel to the top edge of the bracket (Figure 3). For solar panels rated between 100W and 150W, align the long edge of the solar panel to the top edge of the bracket (Figure 3).

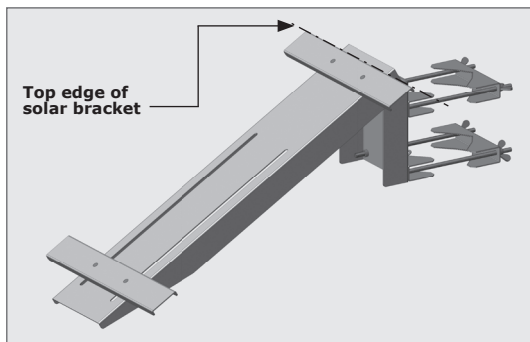


FIGURE 3

5.2. Mounting options

5.2.1. Vertical pole mount

This is the standard mounting position for solar panels. Due to the universal clamping system, the bracket can be mounted on a round or square pole in any orientation to fully utilise the power of the sun at any angle.

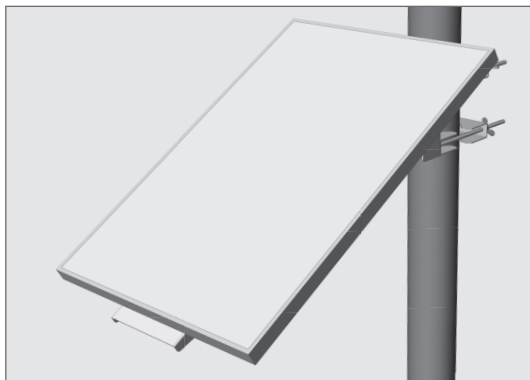


FIGURE 4

5.2.2. Horizontal pole mount

Suitable for applications where the bracket needs to be mounted onto a horizontal pole, for example on a balcony. The universal clamp allows the panel to maximise the sun's potential energy.

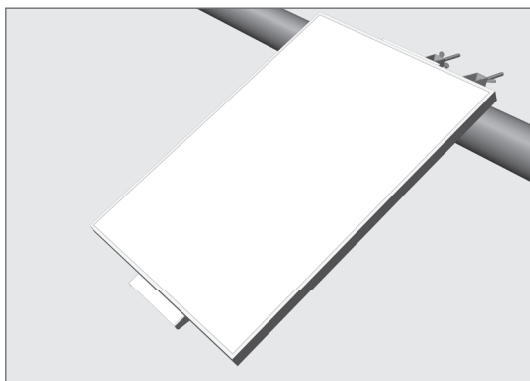


FIGURE 5

5.2.3. Wall mount

In situations where the horizontal and vertical pole mount options are not viable, the bracket can be mounted to a wall, using coach screws and the base plate for support.

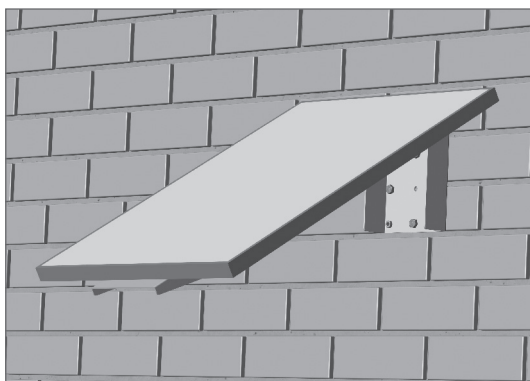
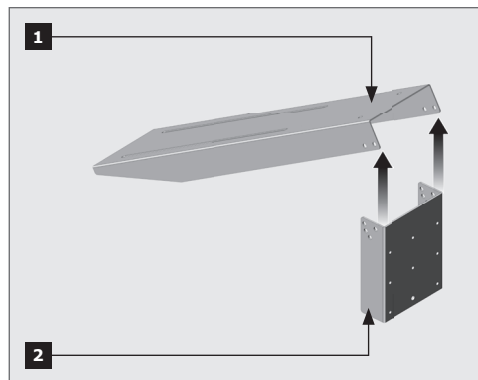


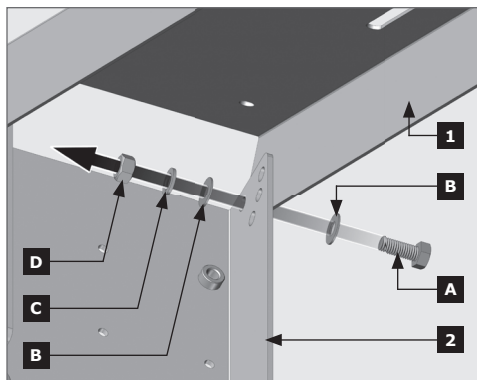
FIGURE 6

6. Installation instructions

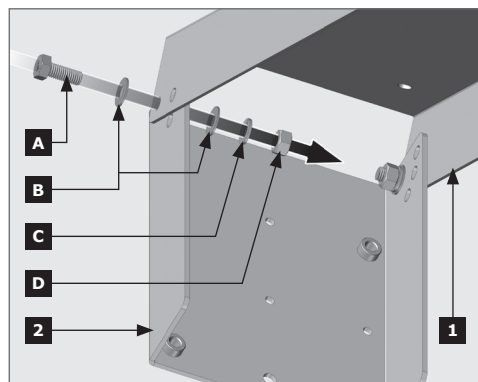
6.1. Vertical pole mount



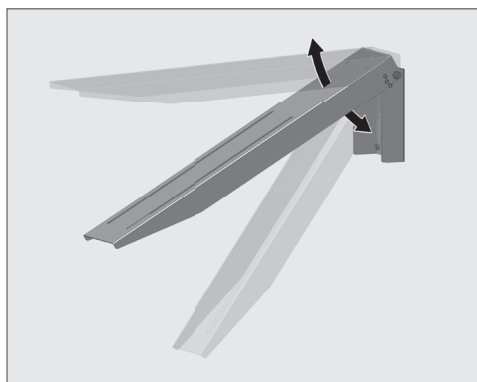
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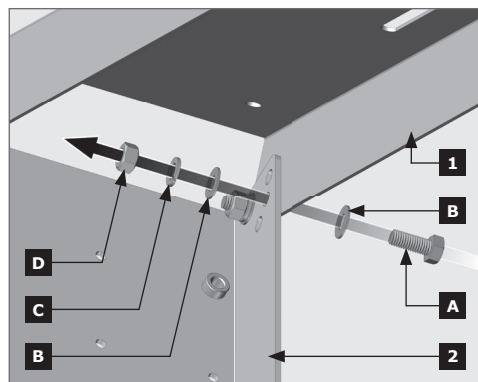
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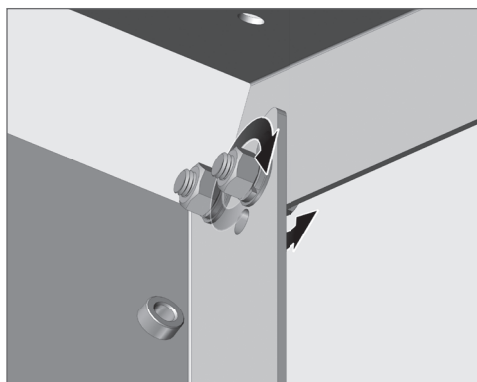
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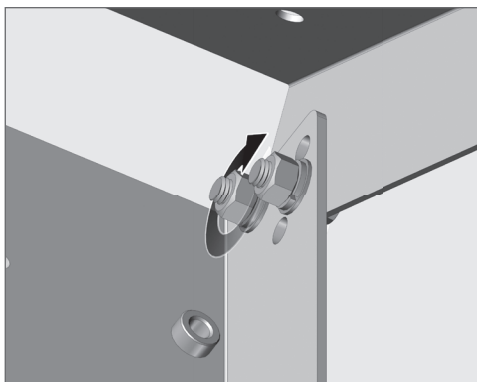
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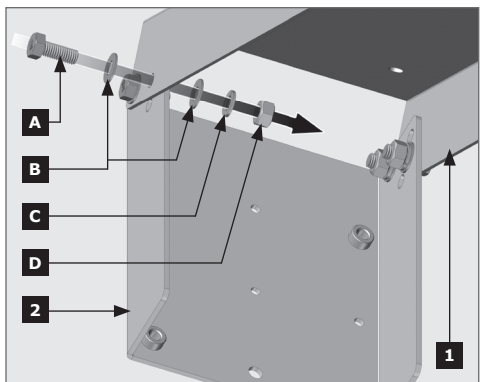
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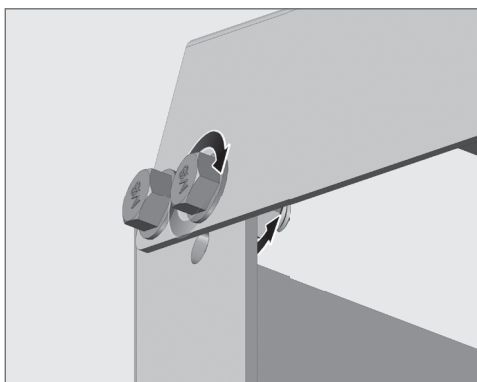
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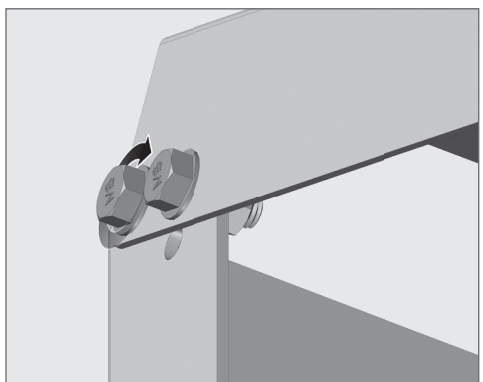
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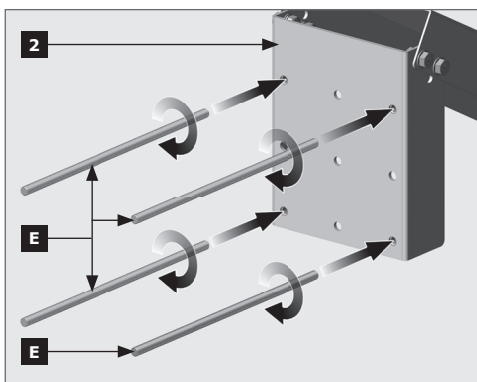
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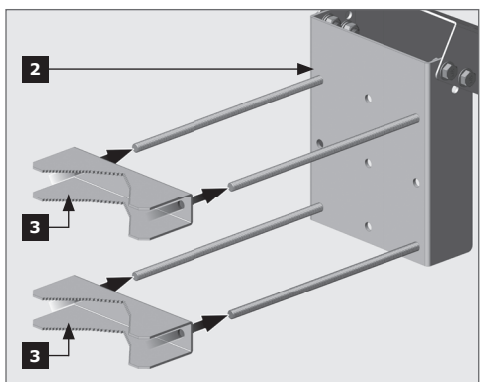
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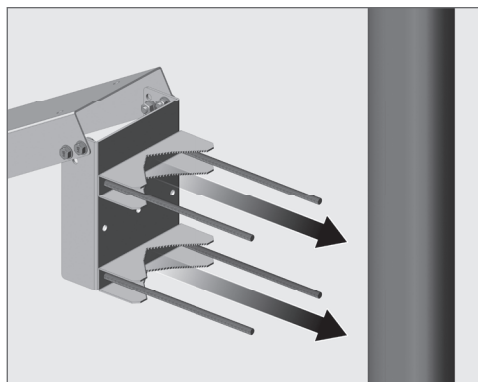
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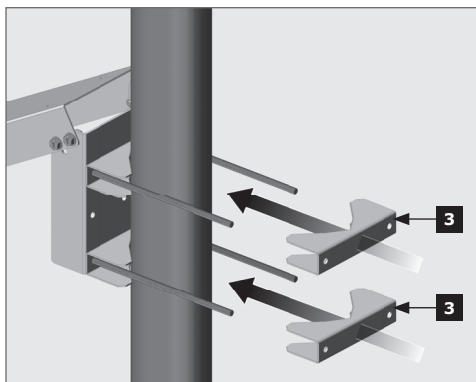
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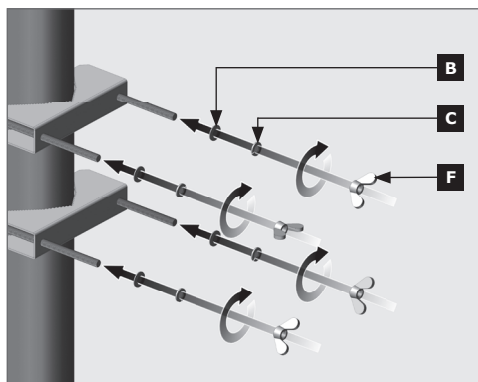
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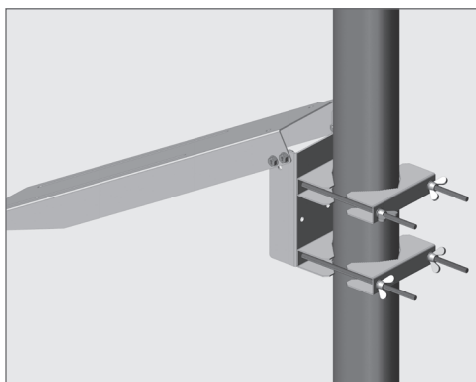
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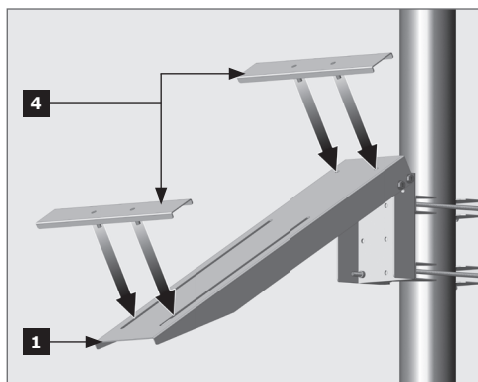
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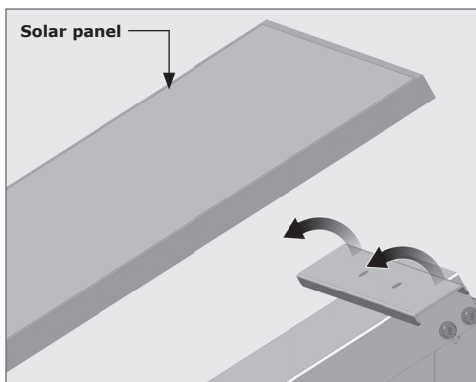
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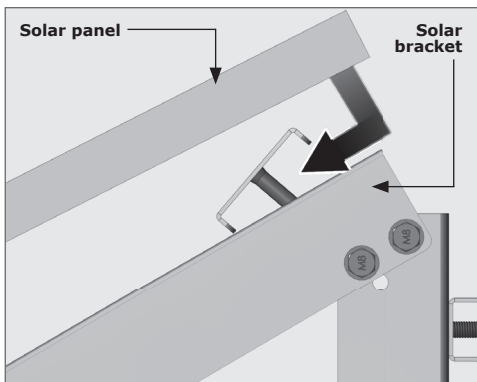
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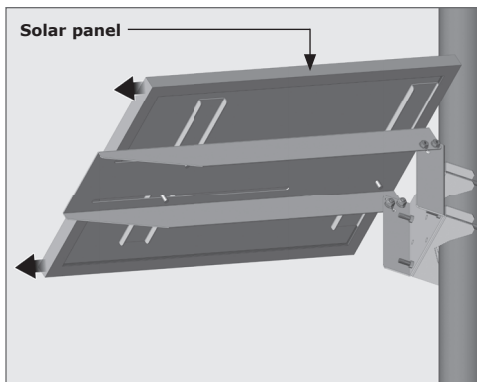
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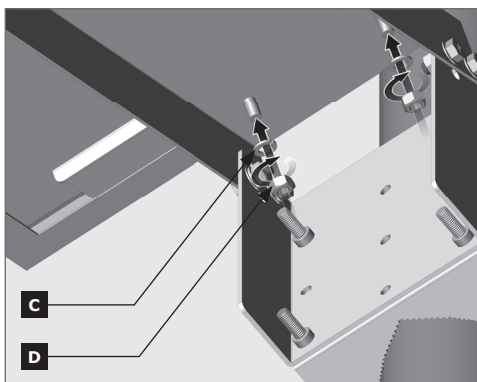
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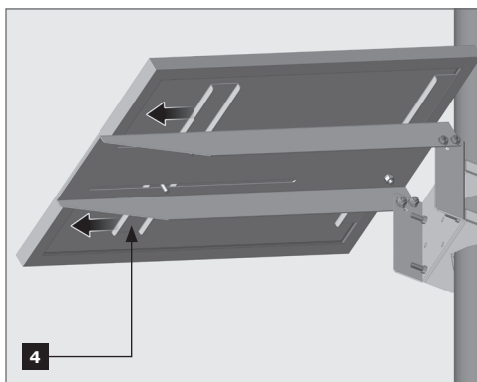
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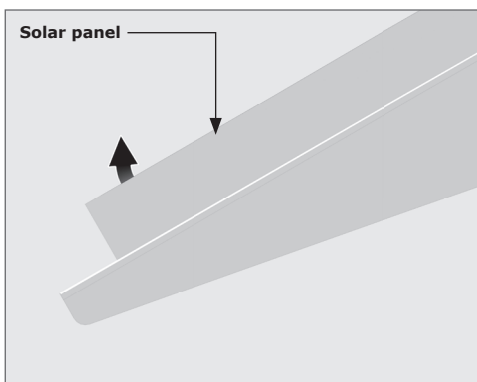
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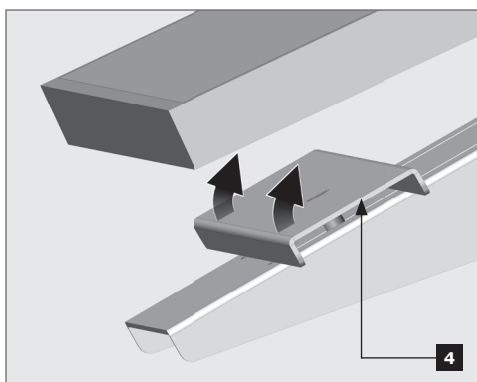
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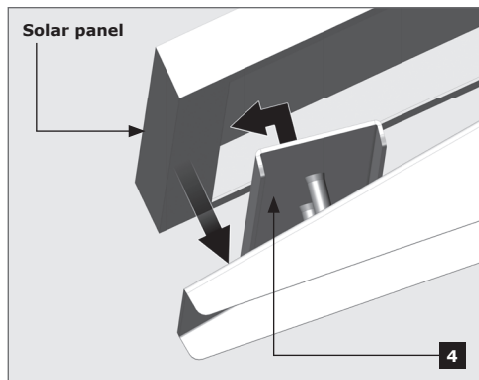
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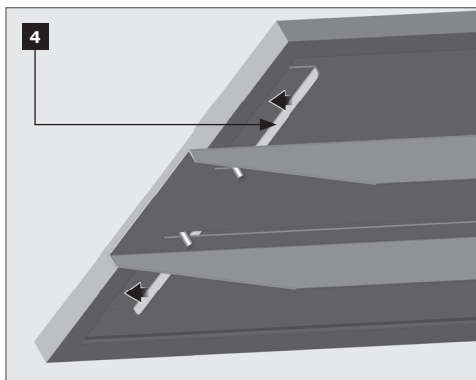
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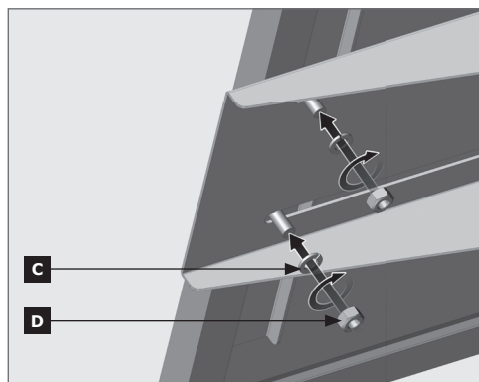
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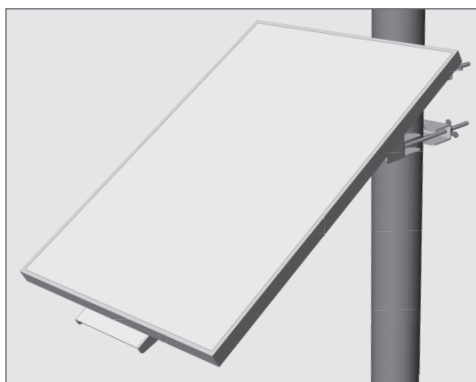
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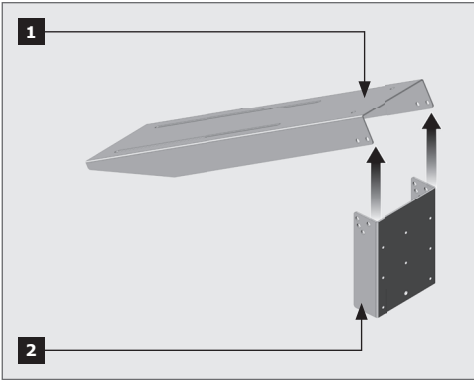


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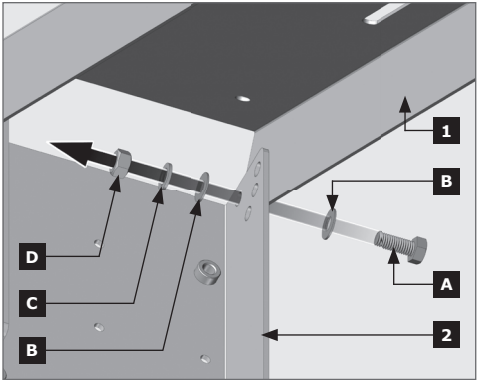


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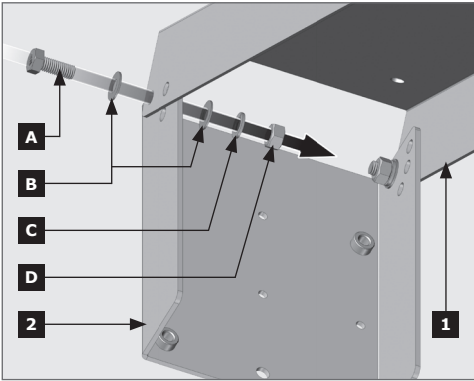
6.2. Horizontal pole mount



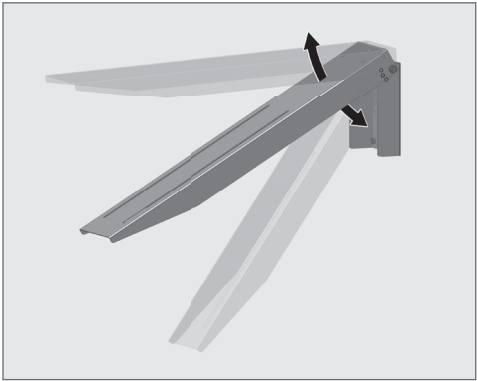
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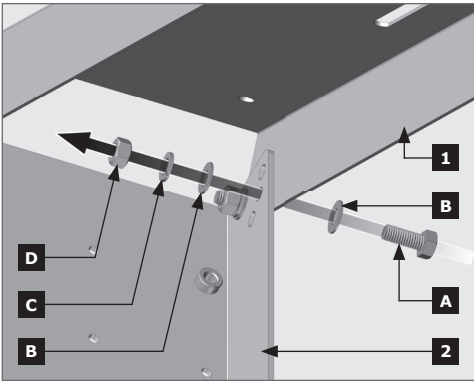
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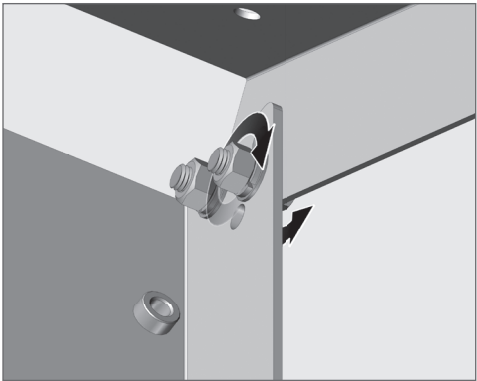
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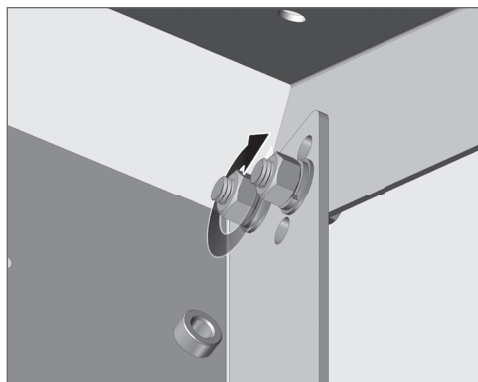
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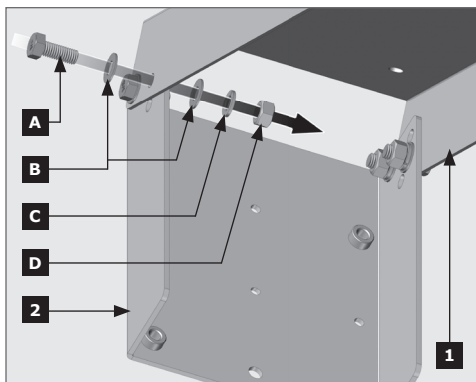
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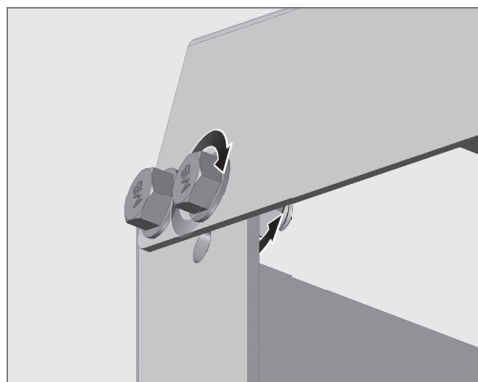
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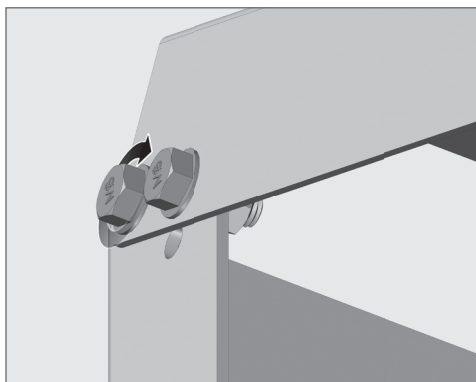
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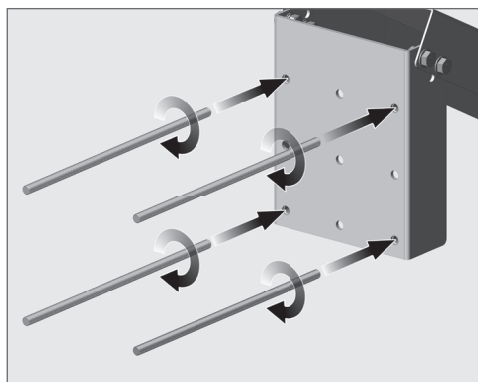
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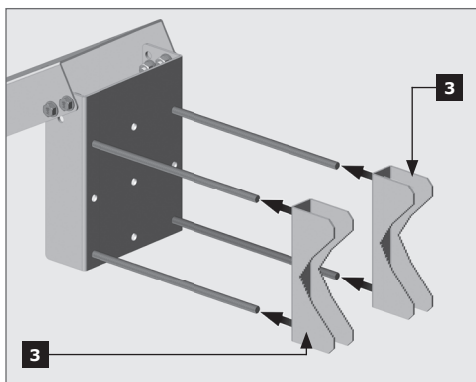
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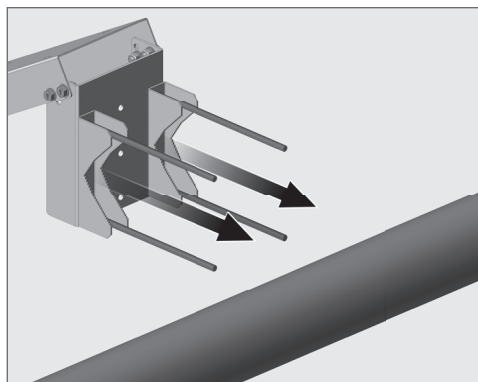
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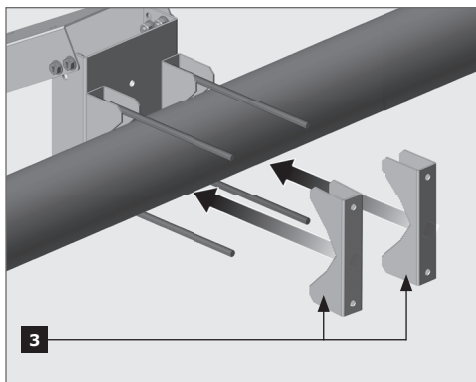
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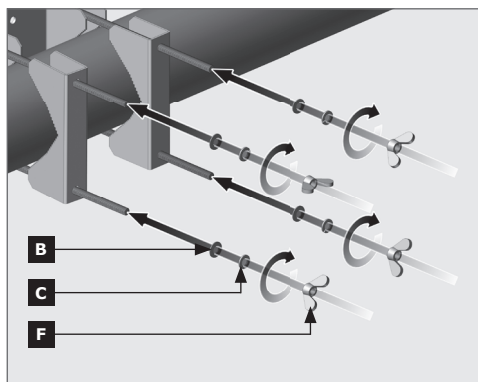
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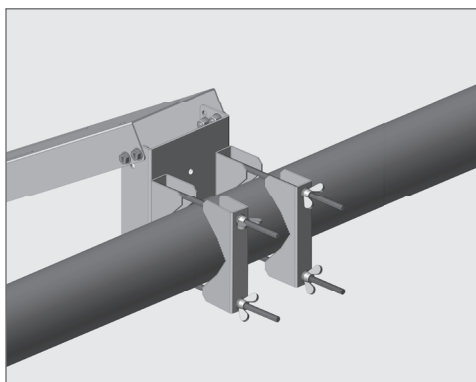
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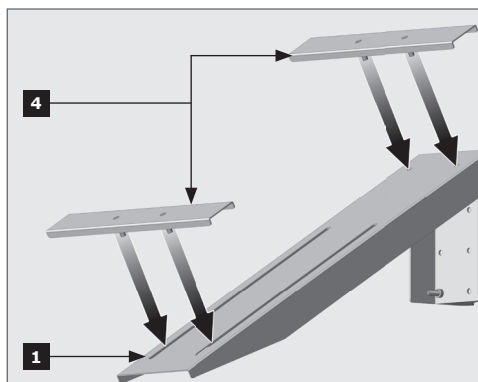
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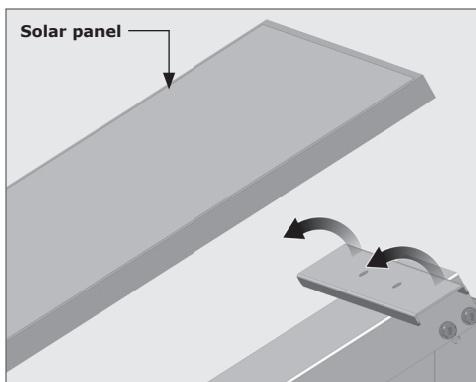
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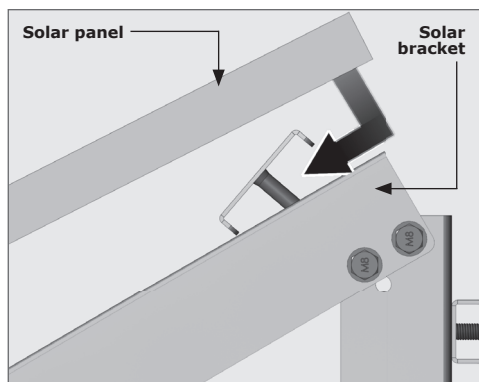
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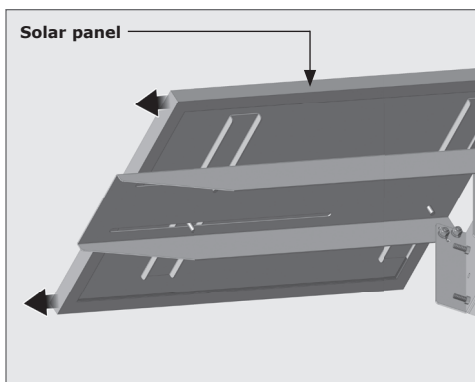
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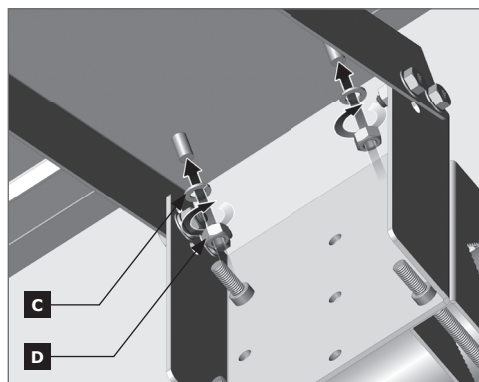
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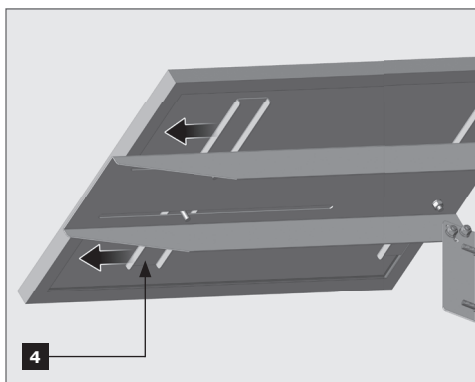
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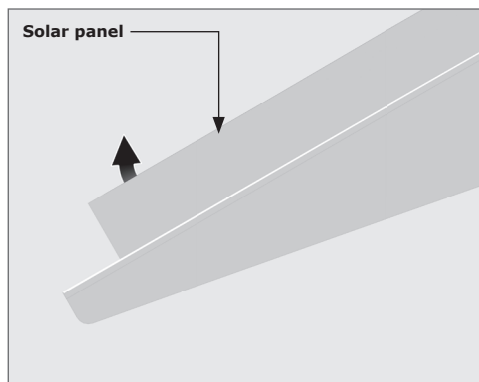
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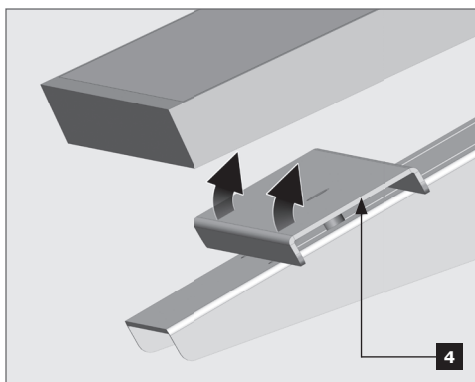
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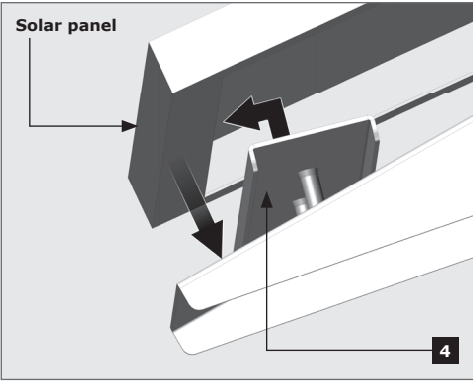
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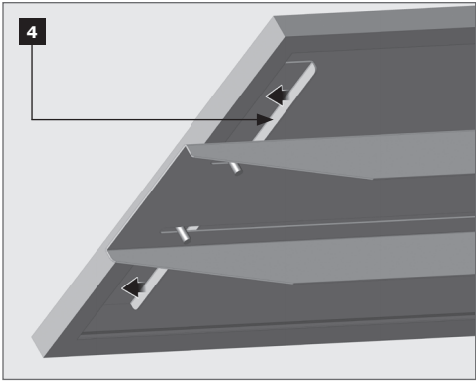
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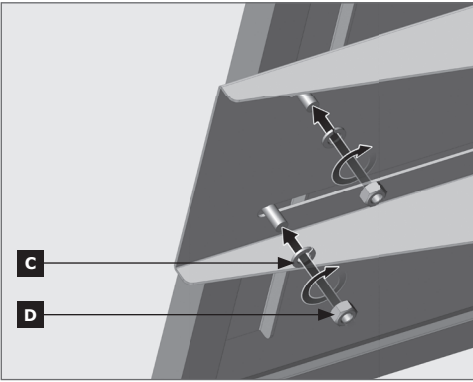
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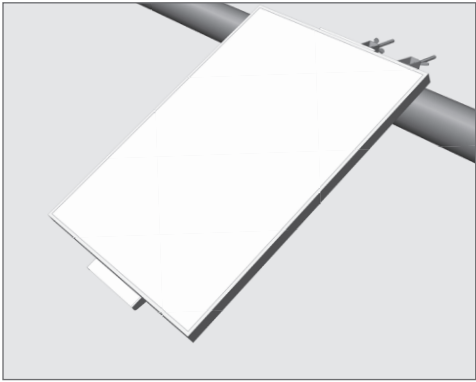
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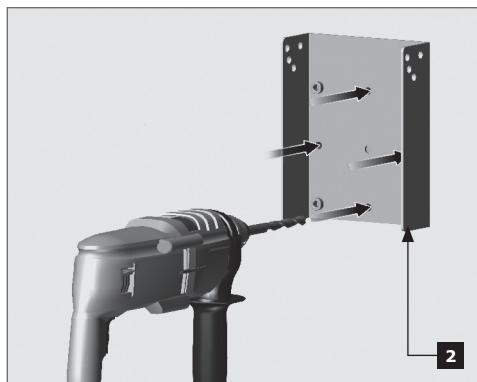


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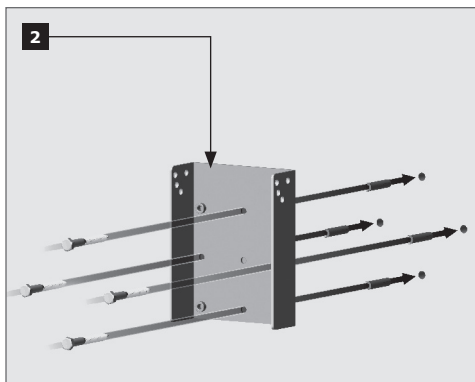


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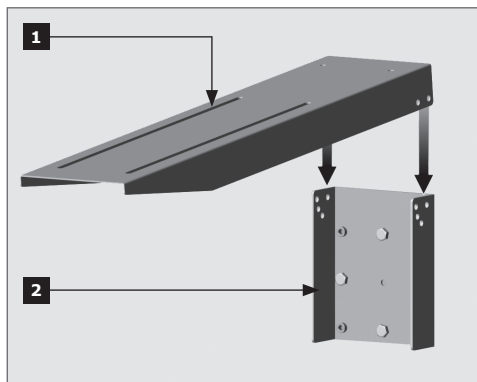
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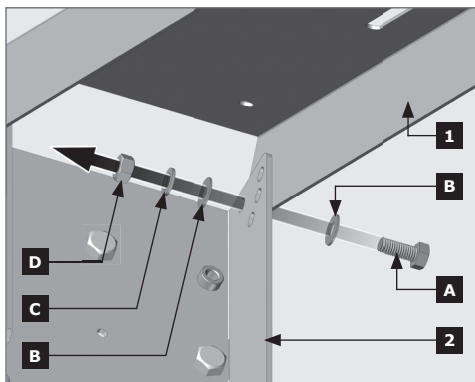
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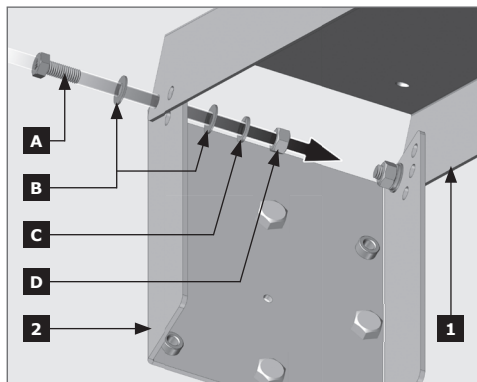
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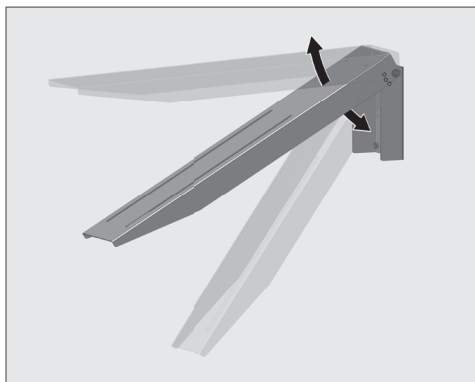
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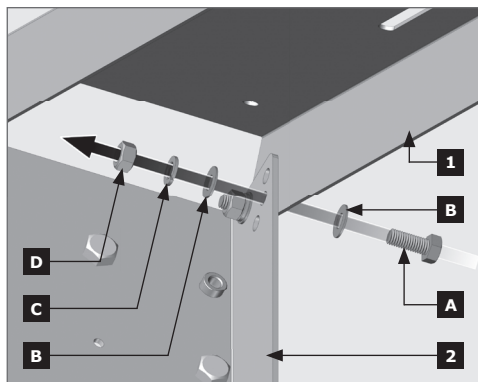
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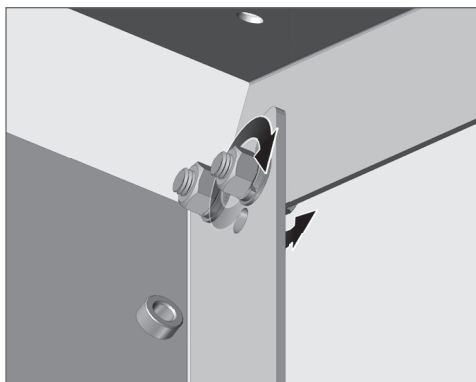
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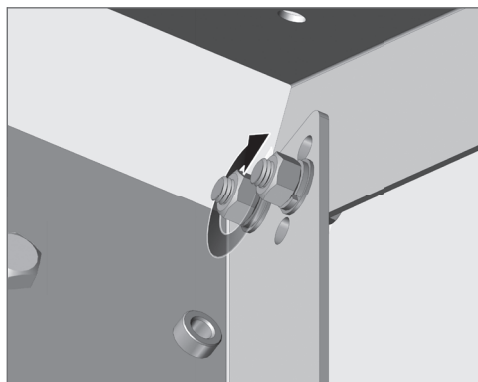
STEP 2.1.



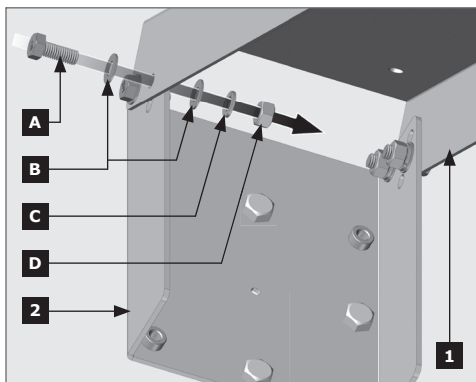
STEP 2.2.



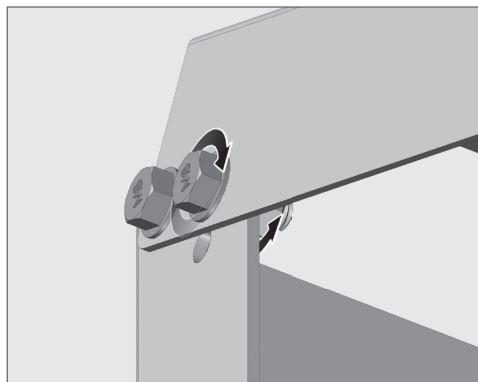
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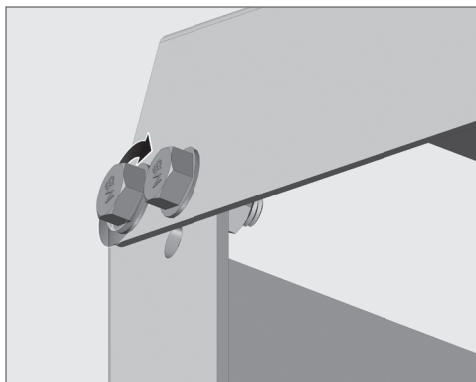
STEP 2.4.



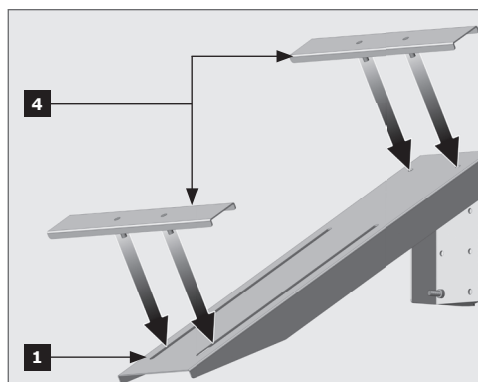
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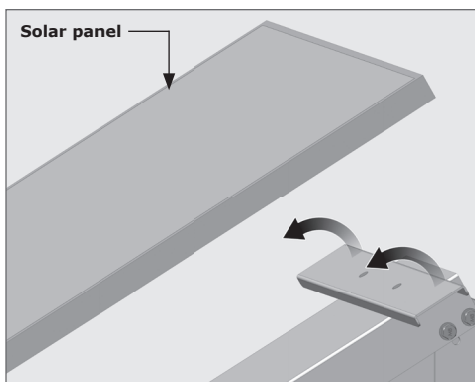
STEP 2.6.



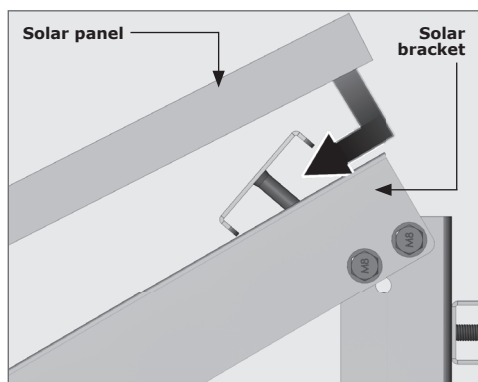
STEP 2.7.



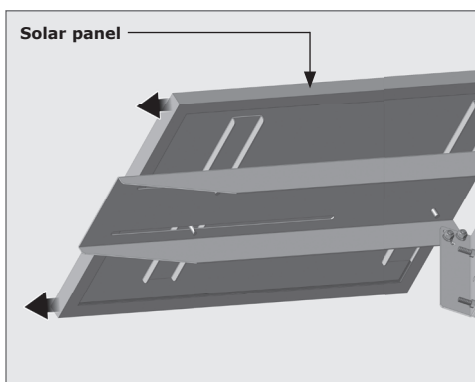
STEP 3.1.



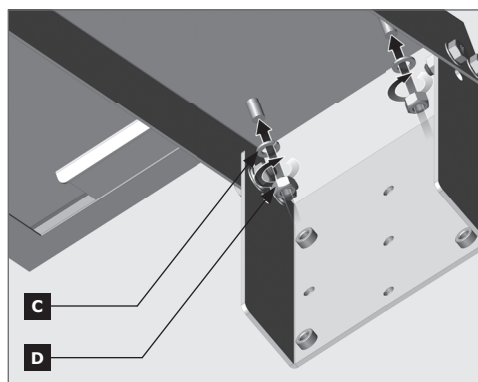
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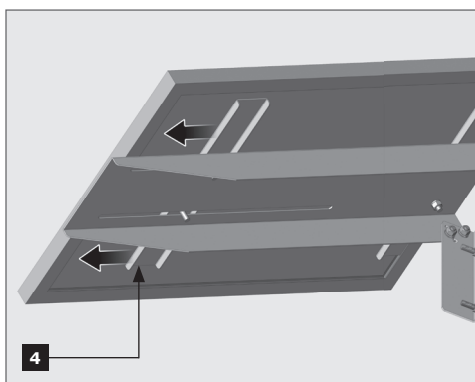
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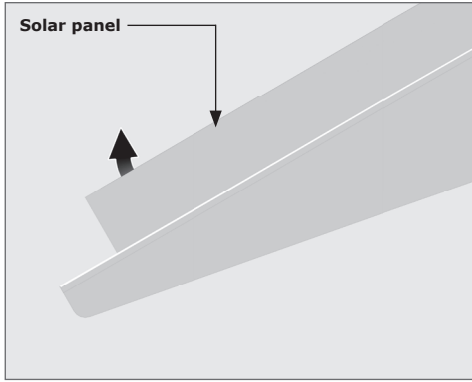
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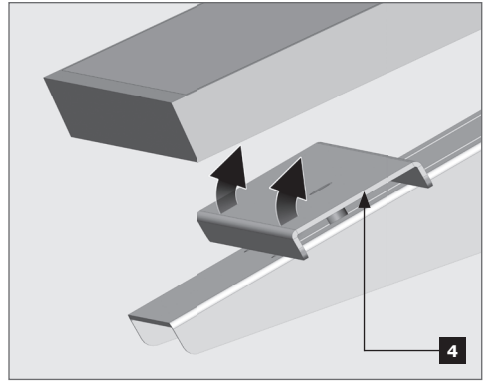
STEP 3.5.



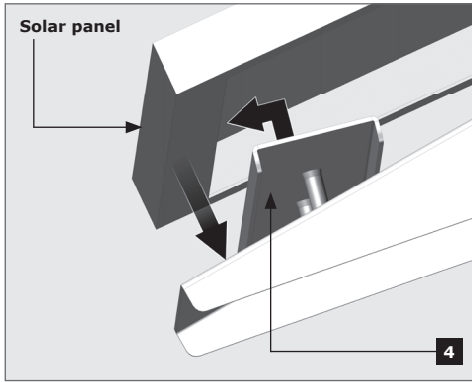
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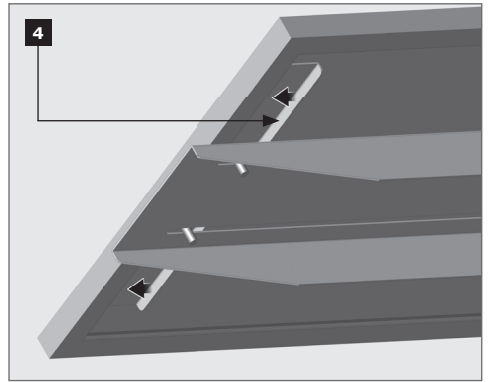
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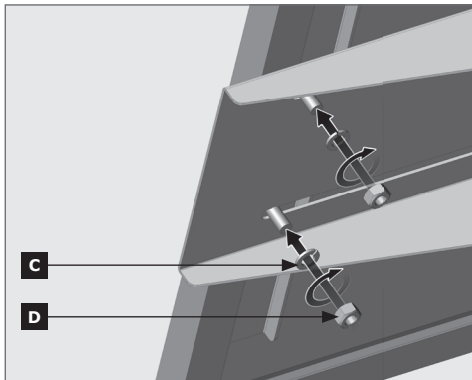
STEP 3.8.



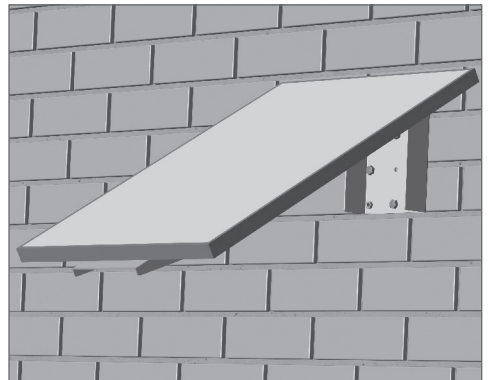
STEP 3.9.



STEP 3.10.



STEP 3.11.



INSTALLATION COMPLETED

7. Installation handover

Once the installation has been successfully completed and tested, it is important for the installer to explain the operation and safety requirements of the system.

NEVER ASSUME THE USER KNOWS HOW TO SAFELY OPERATE THE SOLAR PANEL.

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Ensure that the user is in possession of the user guide and that you have completed the installation details in the back of the user guide.



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SAP Code: DOC1260D0100
Doc number: 1260.D.01.0001_2

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