



Washer, Electrical Equipment Bond

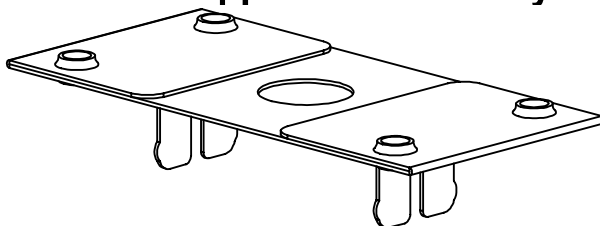
WEEB® WASHER

INSTALLATION INSTRUCTIONS

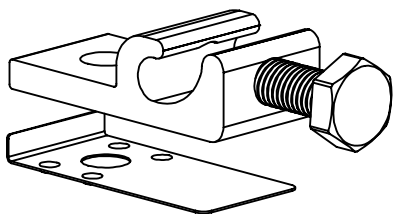
For Lumos PowerMount only

Please read carefully before installing.

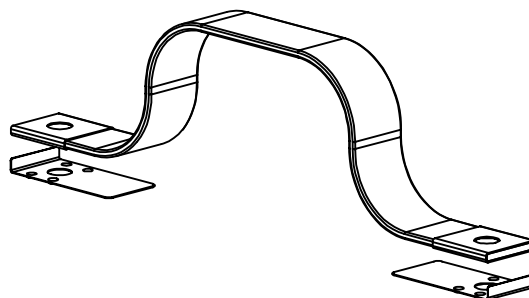
Burndy LLC recommends that the sufficient details of the installation be submitted to the AHJ for approval before any work is started.



WEEB-UMC



WEEB-LUG-6.7



WEEB-BNDJMP6.7



Products are tested to UL 467, CAN/CSA-C22.2 No. 41
US / Canadian standards for safety grounding and bonding equipment.



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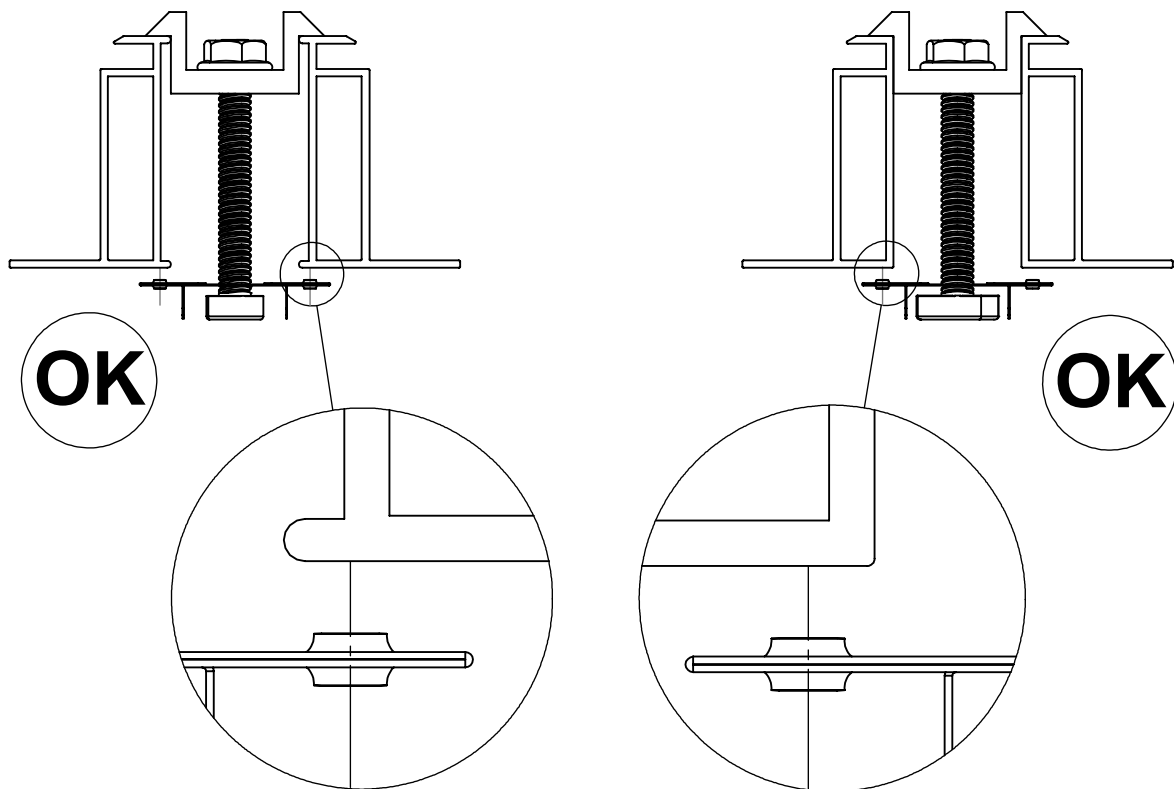


WEEB COMPATIBILITY

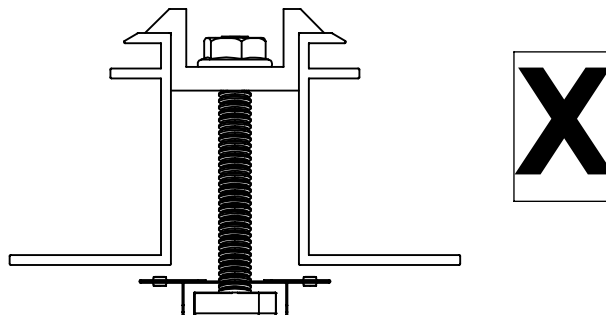
The WEEB family of products can be used to bond anodized aluminum, galvanized steel, steel and other electrically conductive metal structures.

Standard Top Down Clamps

The WEEBs used for bonding the PV modules to the mounting rails are compatible with various cross-sections of module frames. The following are examples of module frames that are compatible. Notice that the WEEB teeth are positioned completely under the edge of the module frame. The WEEB-UMC is **only compatible with module frames that have a reinforcing box structure**, as illustrated below.

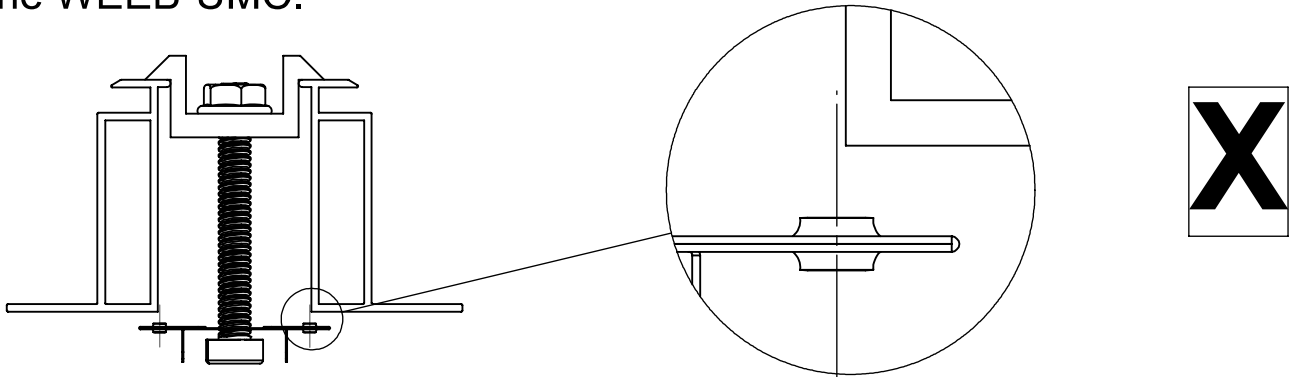


C-shaped module frames, like the one shown here, are incompatible with the WEEB-UMC.

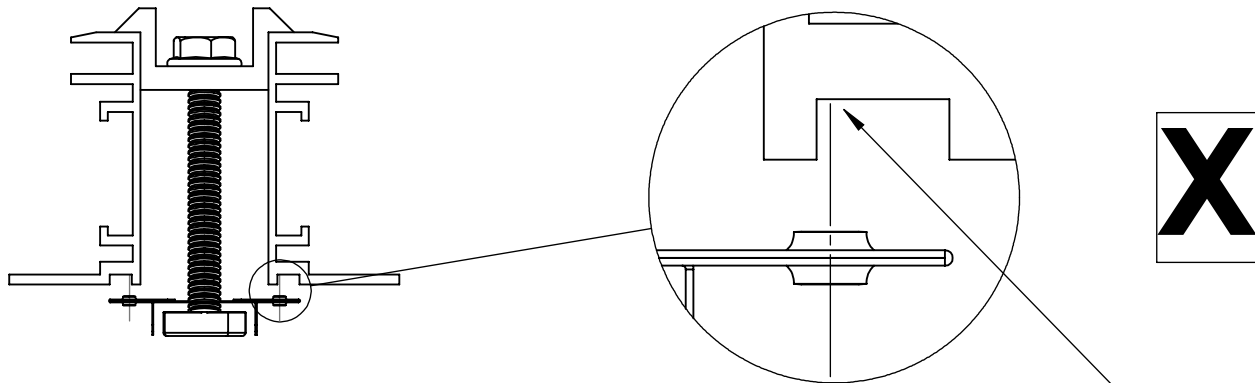


WEEB COMPATIBILITY

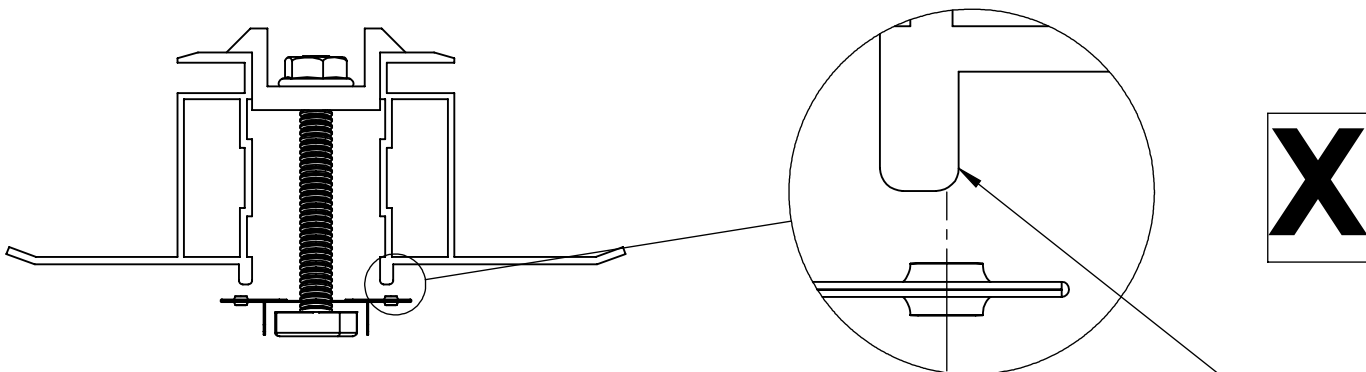
The following are examples of module frames that are incompatible with the WEEB-UMC.



Here the WEEB teeth are positioned only partially under the edge of the module due to the lip on the top edge of the module frame. This type of frame is not compatible with the WEEB.



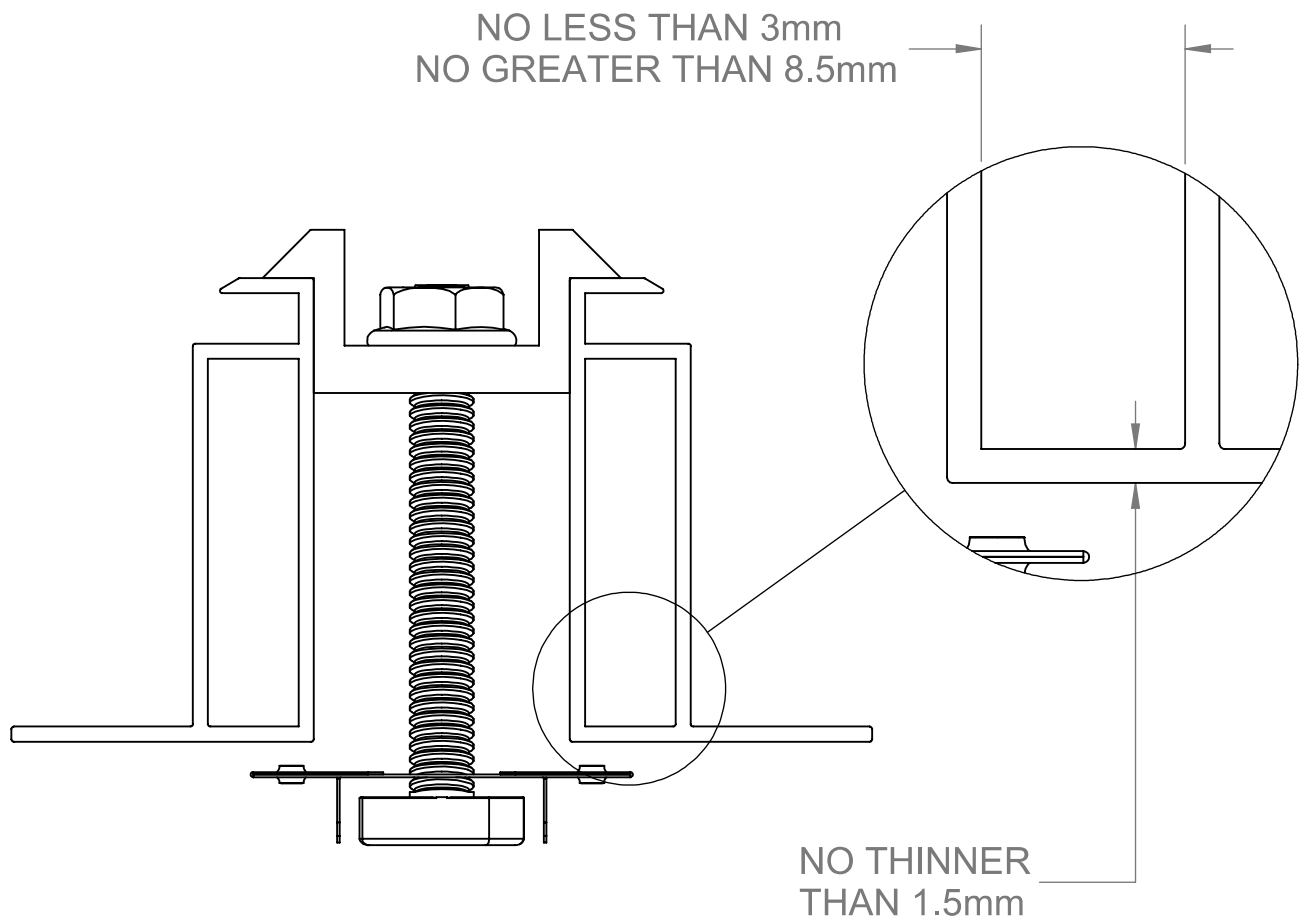
Shown here is an example of a groove that will prevent the WEEB teeth from properly penetrating the module frame. This type of frame is not compatible with the WEEB.



Shown here is an example of a lip that will prevent the WEEB teeth from properly penetrating the module frame. This type of frame is not compatible with the WEEB.

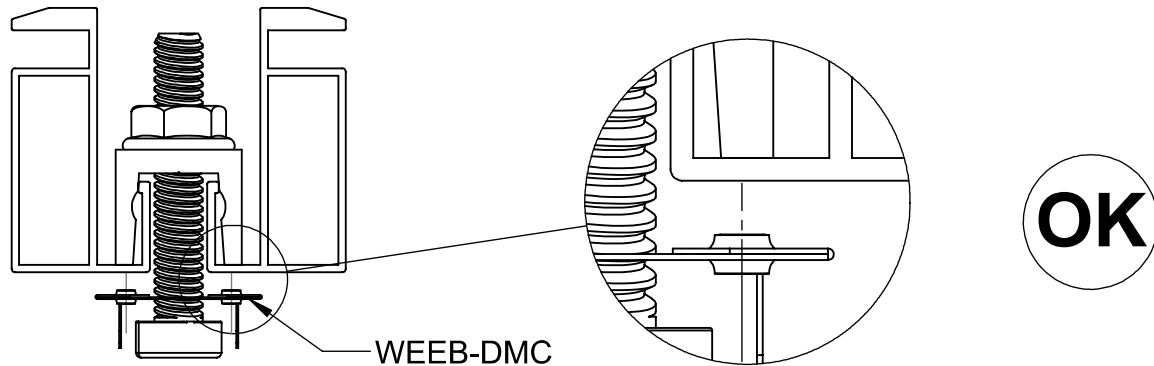
MODULE FRAME SPECIFICATIONS

Certain module frames do not have enough structural strength to withstand the force required to embed a WEEB. These frames will deform and therefore not allow sufficient penetration of the WEEB teeth. The general requirements for minimum module frame thickness of "boxed" type module frames are illustrated below.



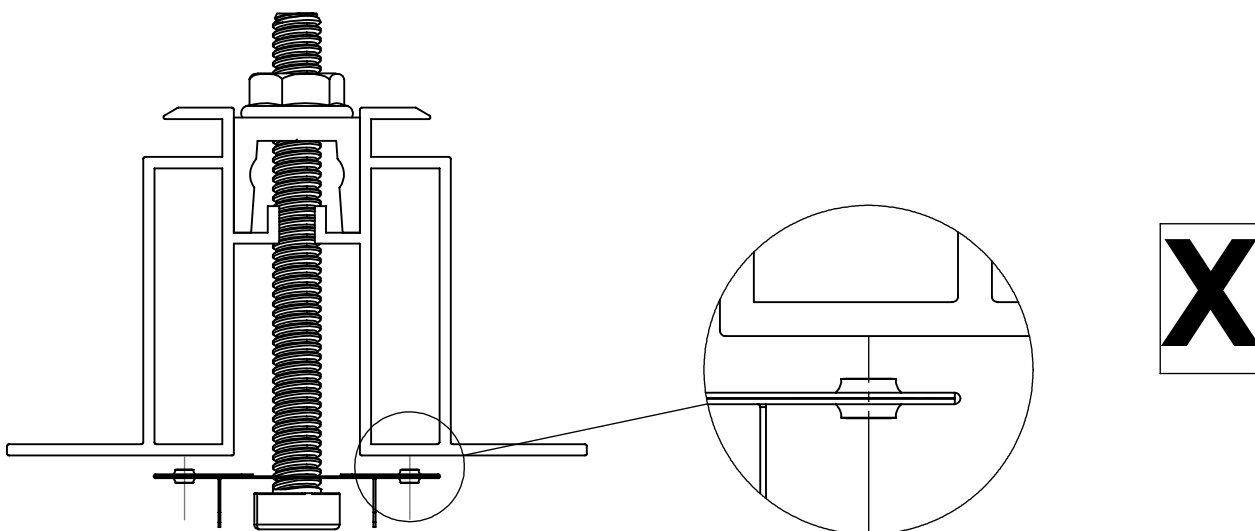
Top Down Clamps for Lipped Modules

The following are a few variations of lipped solar modules mounted with inverted U-shaped clamps. The low-lipped module requires use of the WEEB-DMC instead of the WEEB-UMC. Notice that the force which the inverted U-shaped clamp exerts is in line with the WEEB teeth.



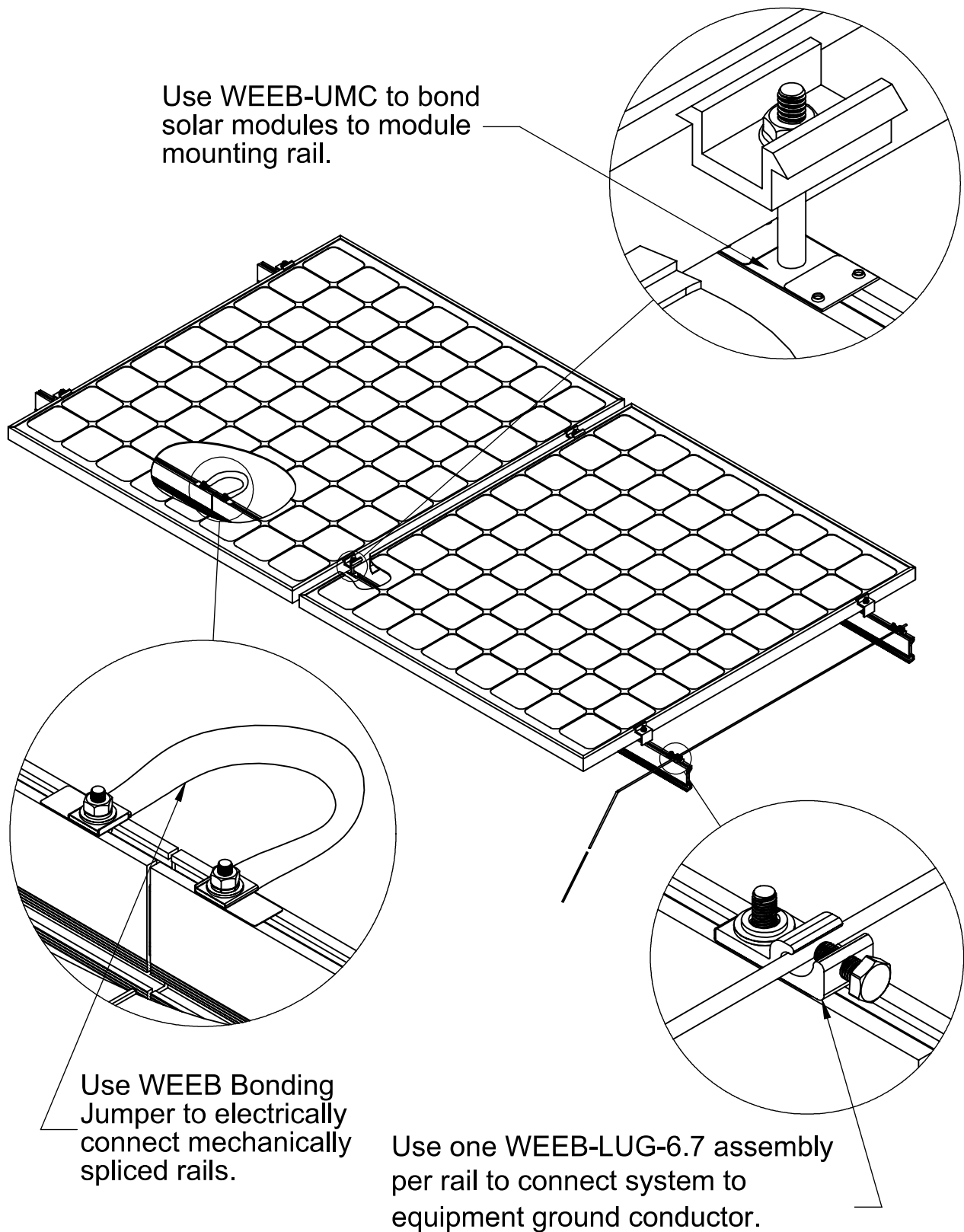
Low-Lipped Module

WEEB-UMC is not compatible with high lipped modules. The WEEB teeth are not in line with the force of the inverted U-shaped clamps, with the result that the WEEB teeth do not embed properly.



High-Lipped Module

SYSTEM OVERVIEW



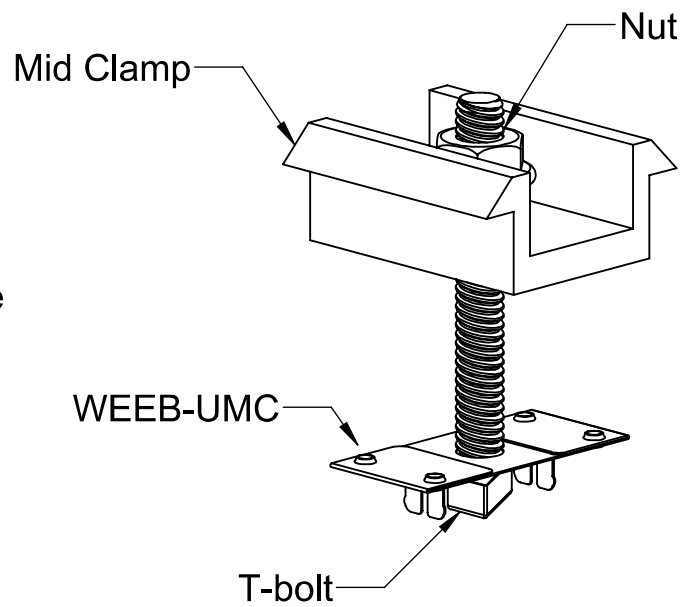
Important notes:

1. Use general purpose anti-seize compound on fastener threads when installing WEEBs.

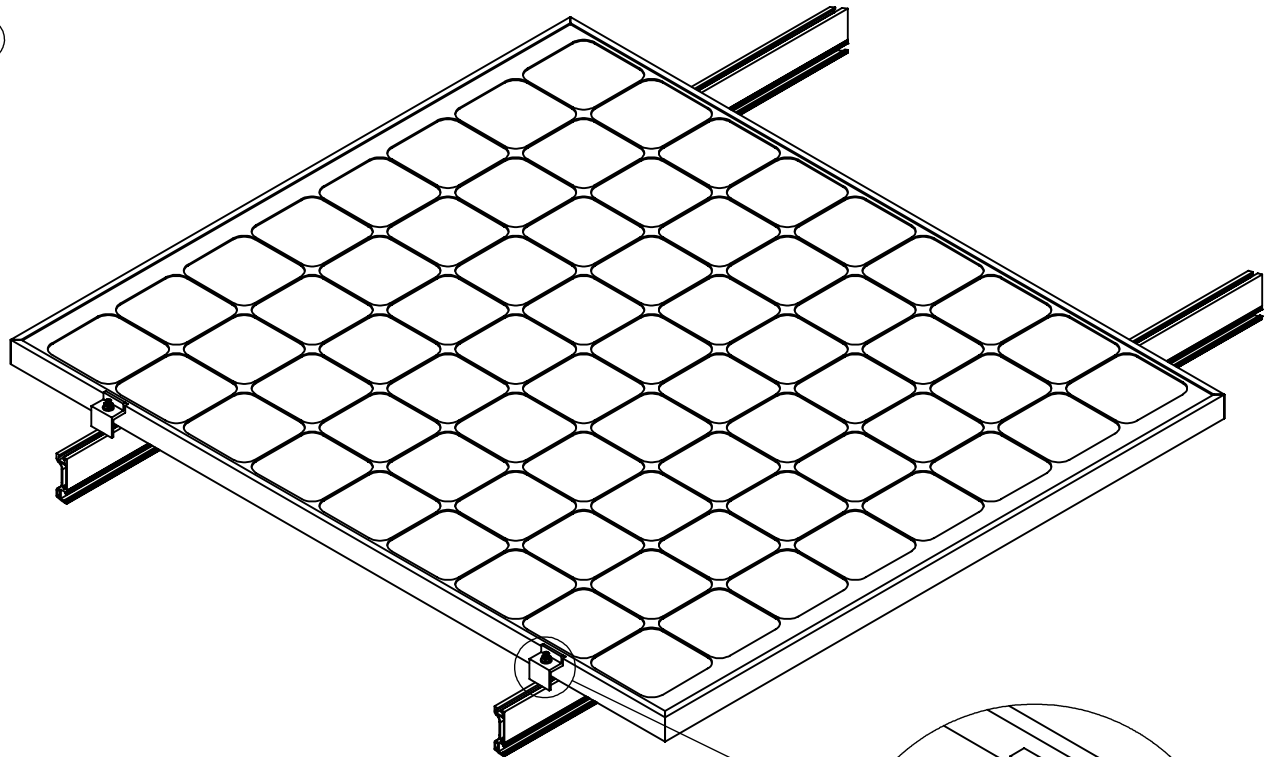
WEEB-UMC ASSEMBLY

1

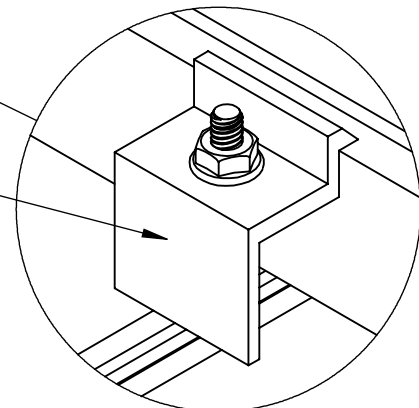
Pre-assemble WEEB-UMC to mid clamp assembly as shown. Pre-assembling WEEB-UMC to mid clamp assembly will contain the small individual parts, reducing the possibility of losing parts during installation.



2



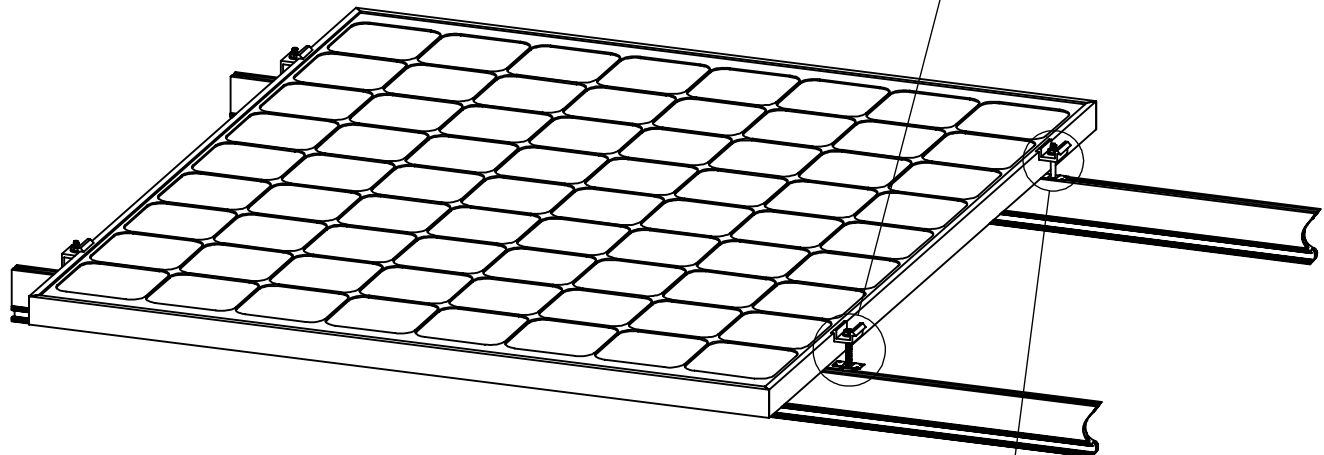
Assemble end clamp to manufacturer's specification.



3

Spring retention tabs hold WEEB-UMC and mid-clamp assembly securely onto mounting rail.

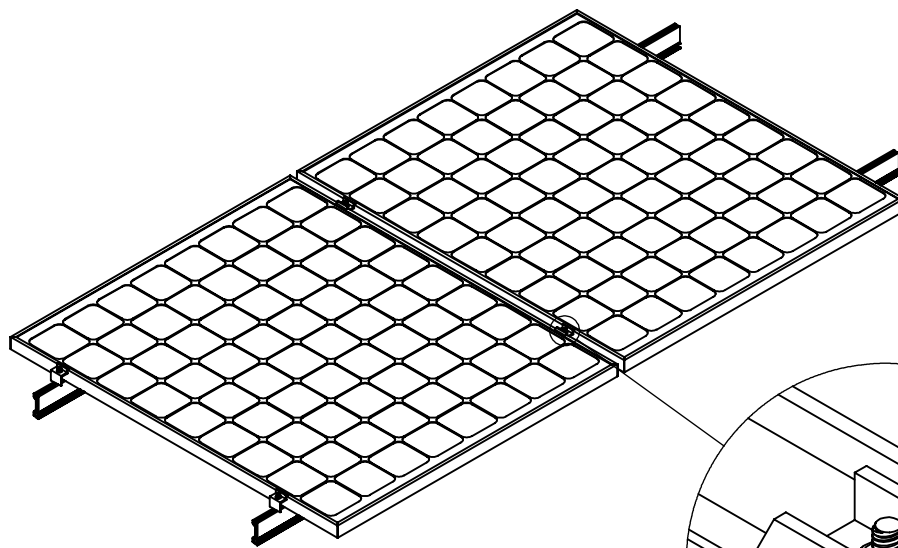
Drop in T-bolt and snap WEEB-UMC on to mounting rail.



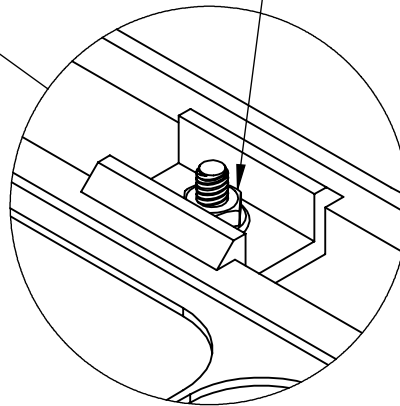
Slightly lift solar module and slide WEEB-UMC and mid clamp assembly into position. WEEB teeth will automatically be aligned under the edge of the module when mid clamp assembly is correctly installed.

Important note:

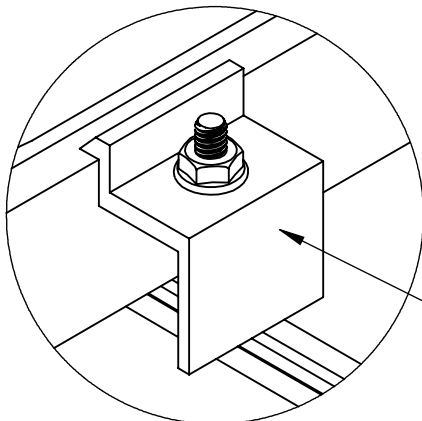
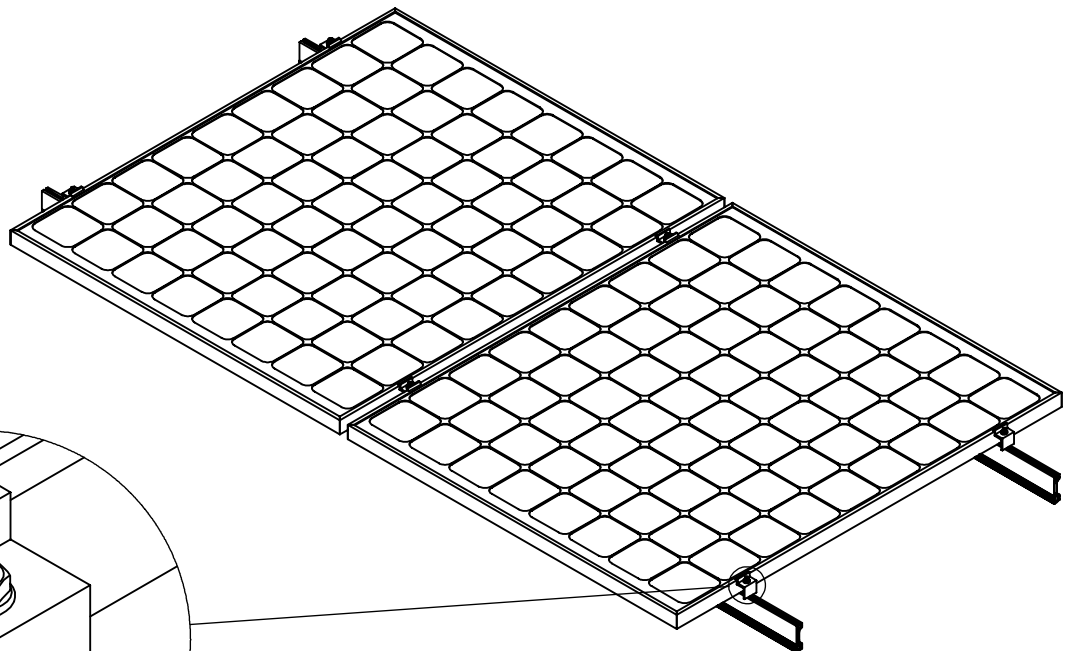
To correctly install mid clamp assembly, ensure that the WEEB teeth sit completely under the edge of the module frame. Refer to WEEB compatability page for illustrations.



When position of solar modules is finalized, tighten fasteners to 10 ft-lb / 13.5 N-m of torque, using general purpose anti-seize compound on threads.



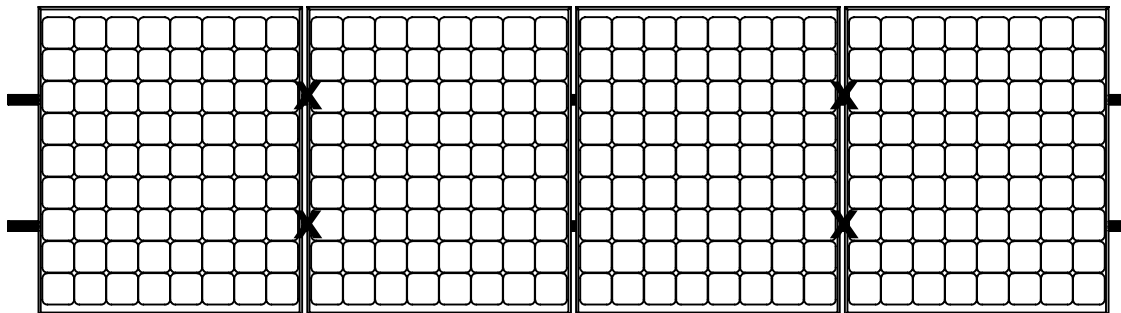
5



Assemble end clamp to manufacturer's specification.

WEEB-UMC LAYOUT

EVEN NUMBER OF MODULES IN ROW

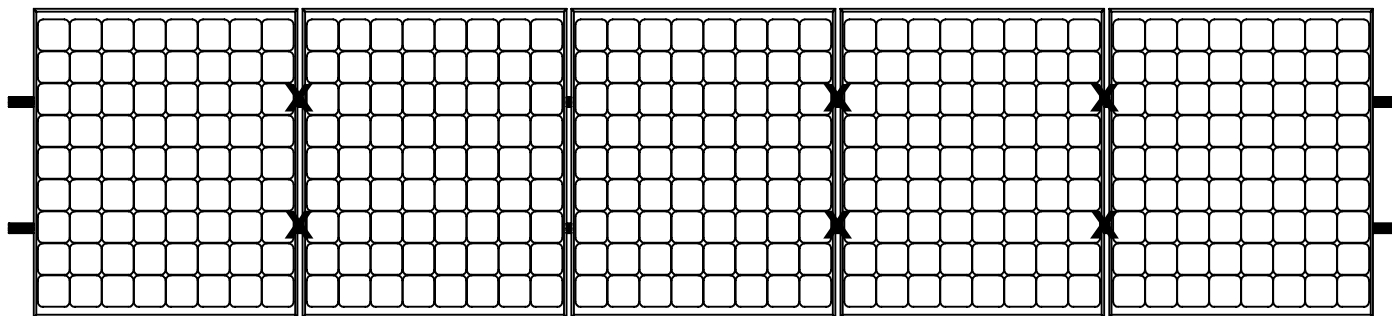


X DENOTES PLACES TO INSTALL WEEB-DMC

$$\text{COLUMN} \times \text{ROW} = C \times R = 4 \times 1 = 4$$

$$\text{WEEB-UMC NEEDED} = 4$$

ODD NUMBER OF MODULES IN ROW



X DENOTES PLACES TO INSTALL WEEB-DMC

$$[\text{COLUMN} + 1] \times \text{ROW} = [C + 1] \times R = [5 + 1] \times 1 = 6$$

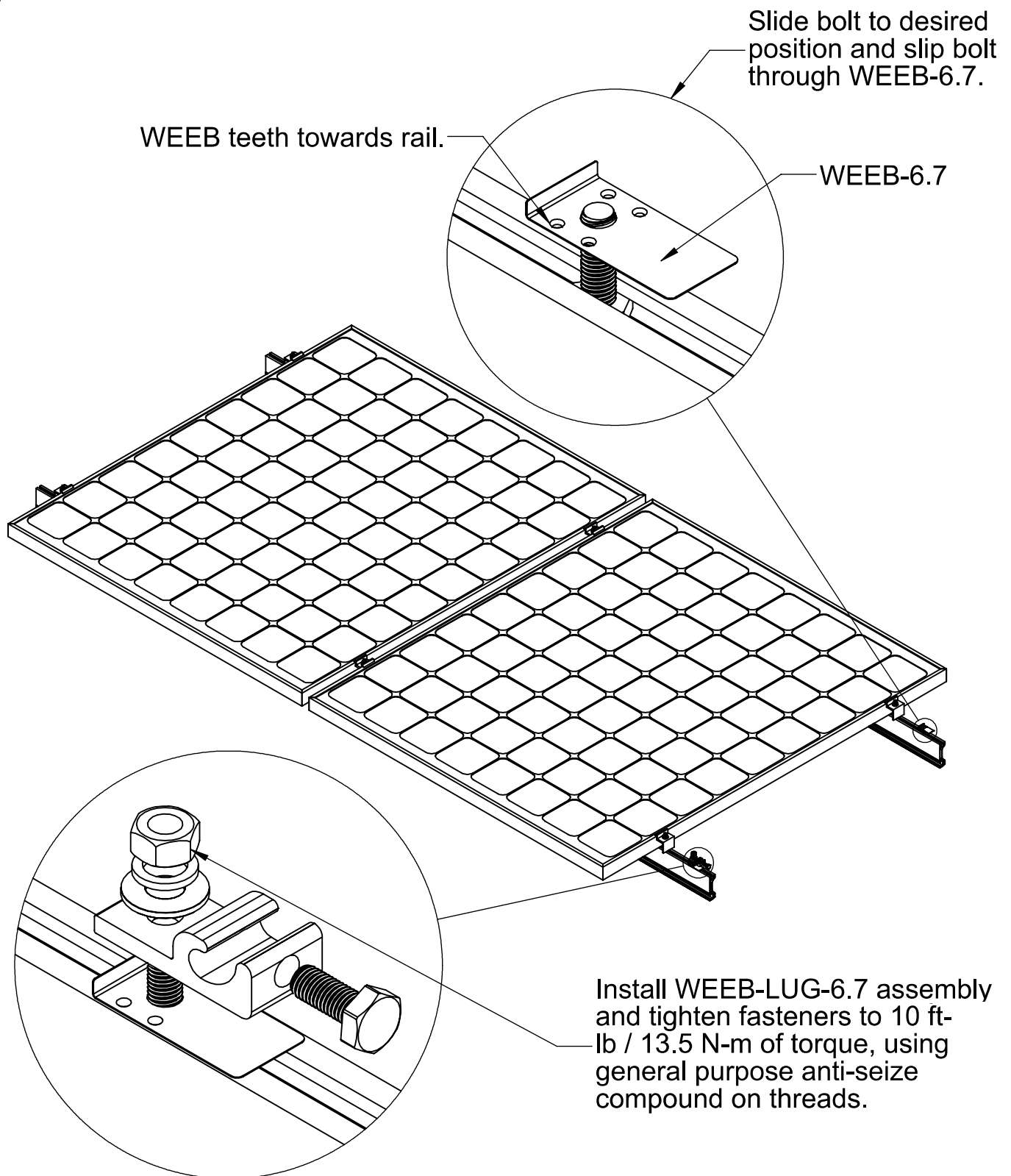
$$\text{WEEB-UMC NEEDED} = 6$$

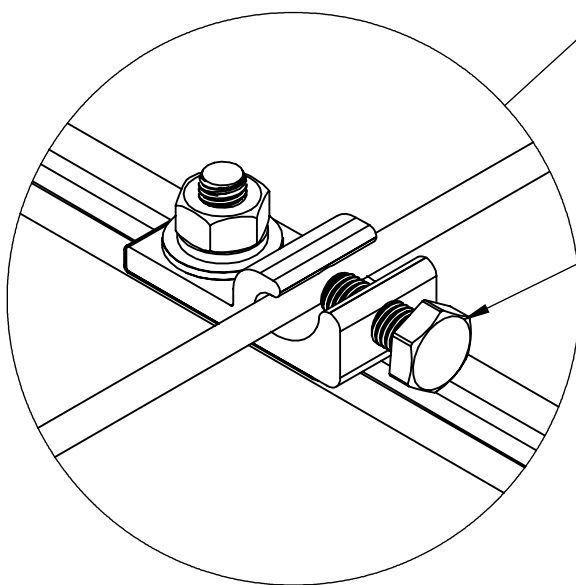
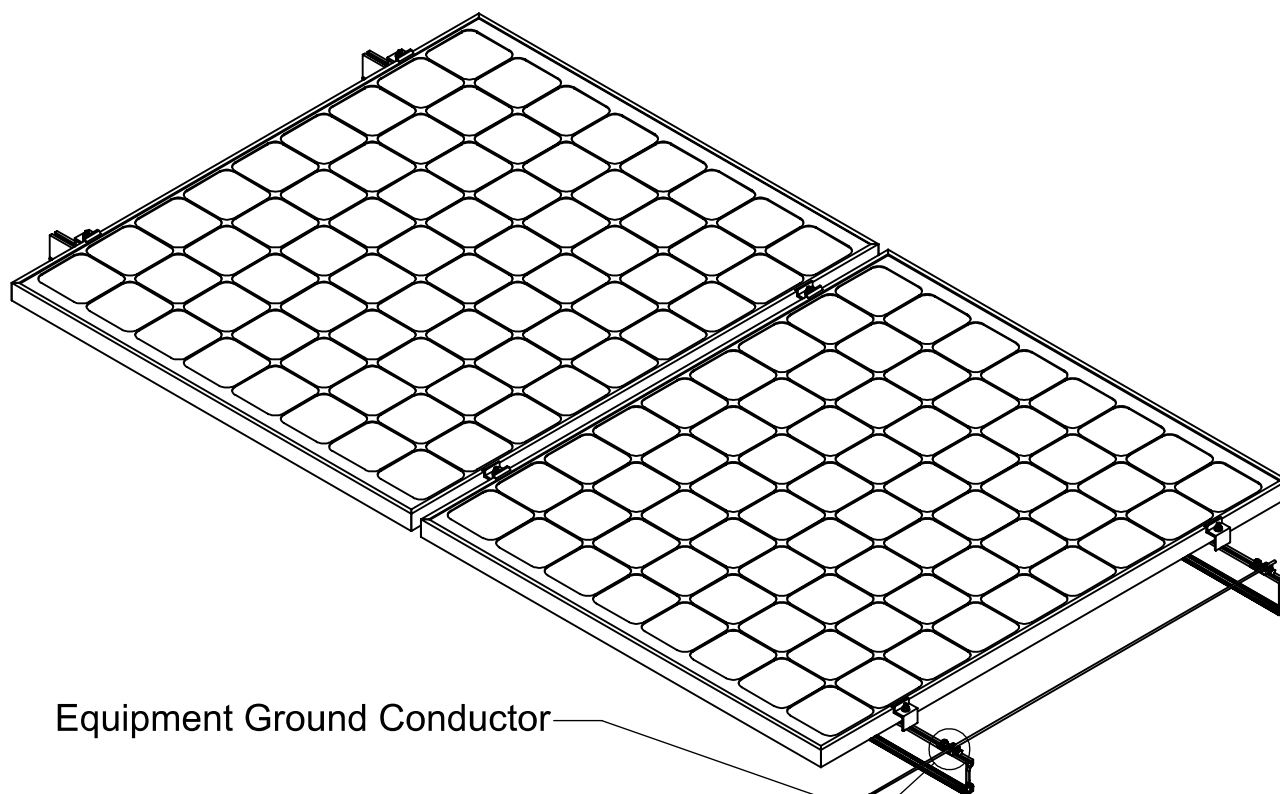
Note:

When replacing a single faulty module, also remove the adjacent module which contacts the same WEEBs as the faulty module. This will ensure that there are never ungrounded modules in the array.

WEEBLUG ASSEMBLY

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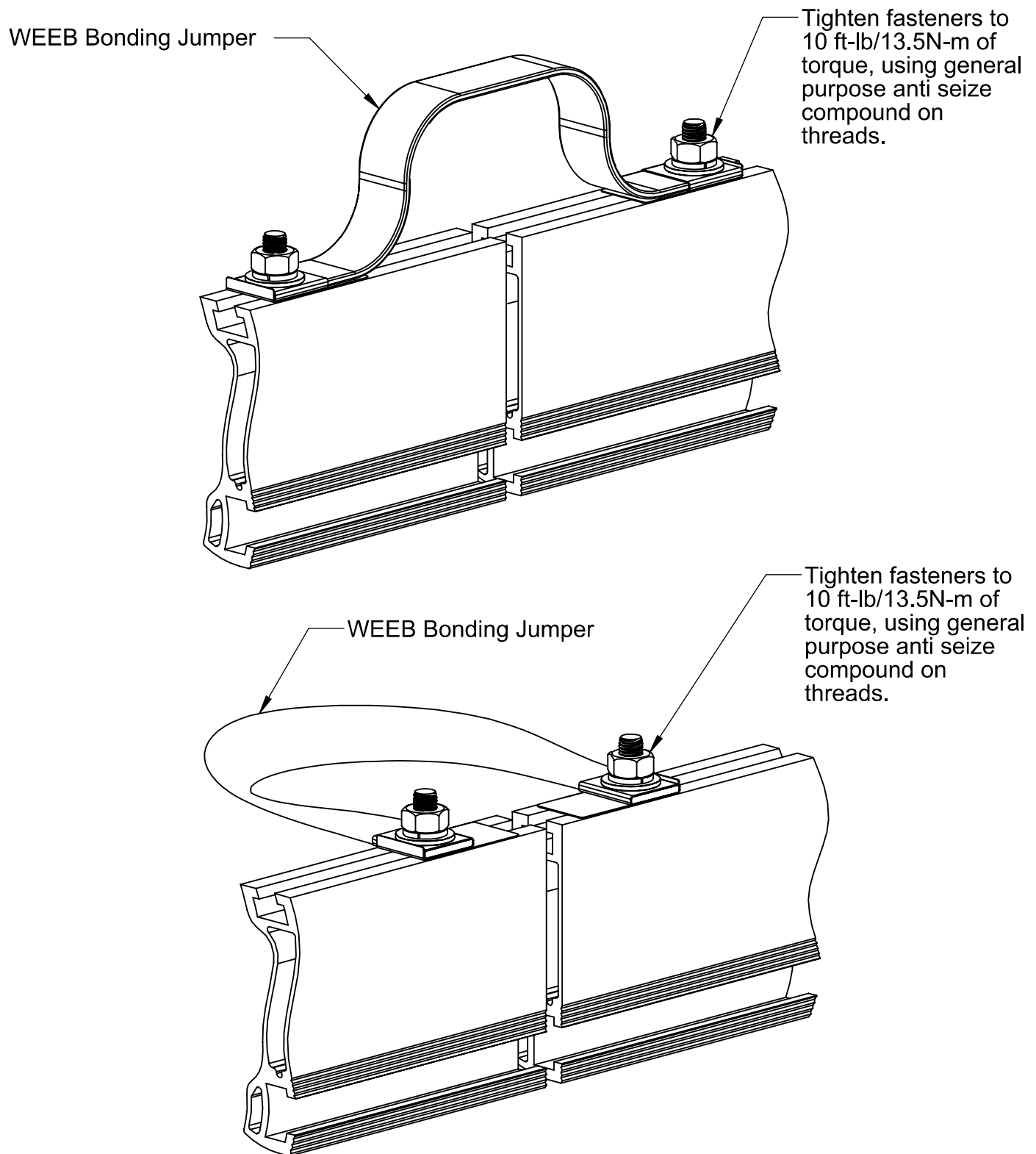


Lay in equipment ground conductor and torque bolt to 7 ft-lb / 10 N-m.

SPLICE KIT ASSEMBLY

9

The flexible WEEB Bonding Jumper can be mounted in different ways shown below.

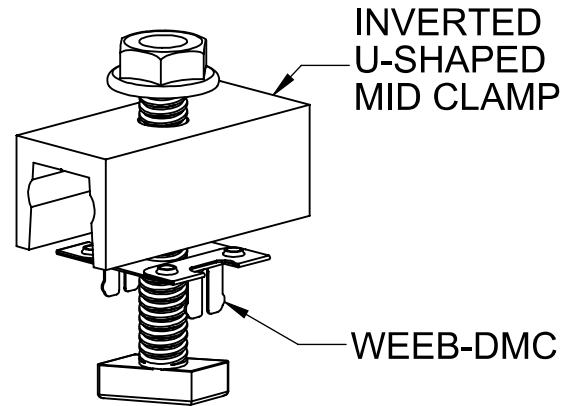


Route WEEB Bonding Jumper as shown above if edge of solar module lands between two spliced rails.

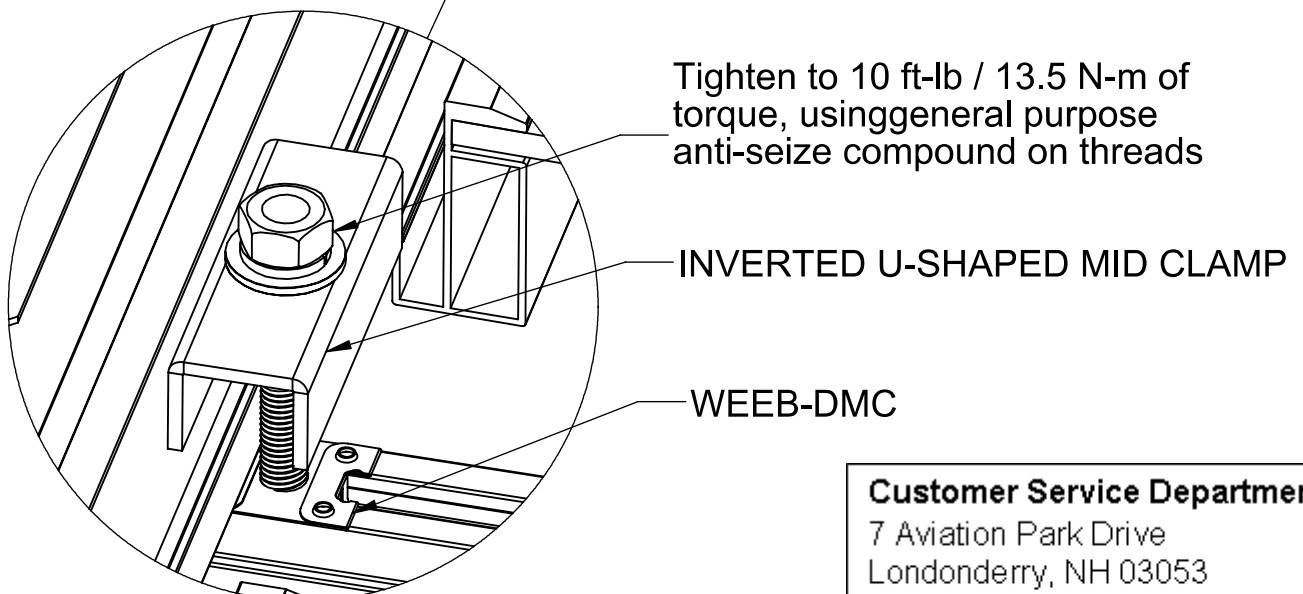
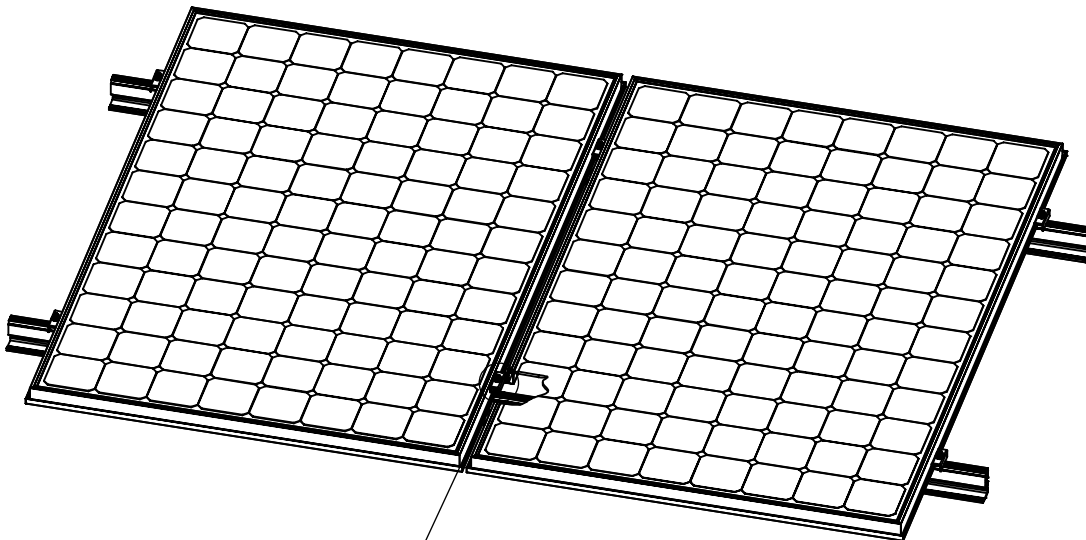
LOW-LIPPED MODULE INSTALLATION

10

Pre-assemble WEEB-DMC to mid-clamp assembly as shown. Pre-assembling WEEB-DMC to mid-clamp assembly will contain the small individual parts, reducing the possibility of losing parts during installation.



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