Wiley Electronics LLC

Washer, Electrical Equipment Bond

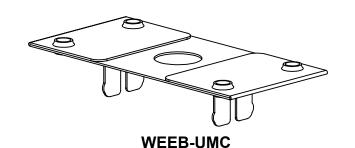
WEEB

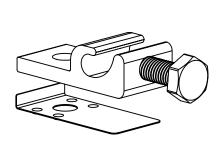
Patent Pending

INSTALLATION INSTRUCTIONS

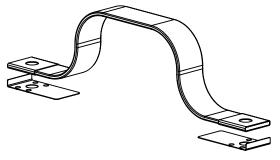
For Unirac Solar Mount only

Please read carefully before installing.





WEEBL-6.7



WEEB Bonding Jumper-6.7

Intertek

Products are tested to UL 467
UL standard for safety grounding and bonding equipment

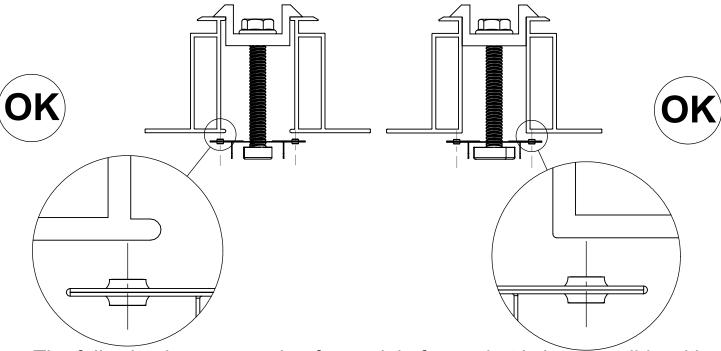
Document Number 104-0404-000010-012

WEEB COMPATIBILITY

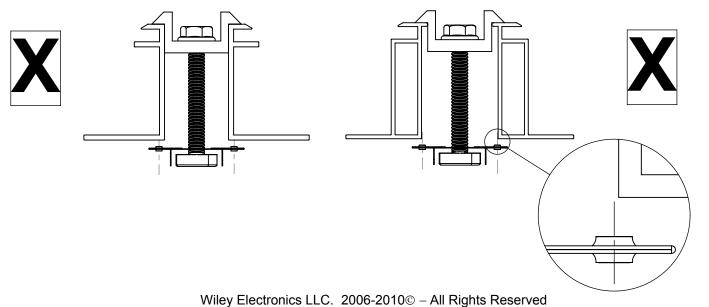
The WEEB family of products can be used to bond anodized aluminum, galvanized steel, steel and other electrically conductive metal structures.

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.

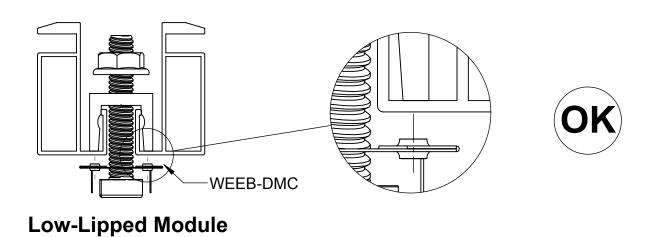


The follwoing is an example of a module frame that is incompatible with the WEEB. The WEEB teeth are positioned only partially under the edge of the module due to the lip on the top edge of the module frame.

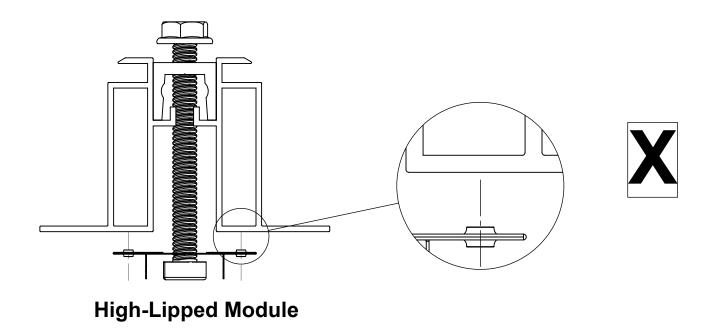


Top Down Clamps for Lipped Modules

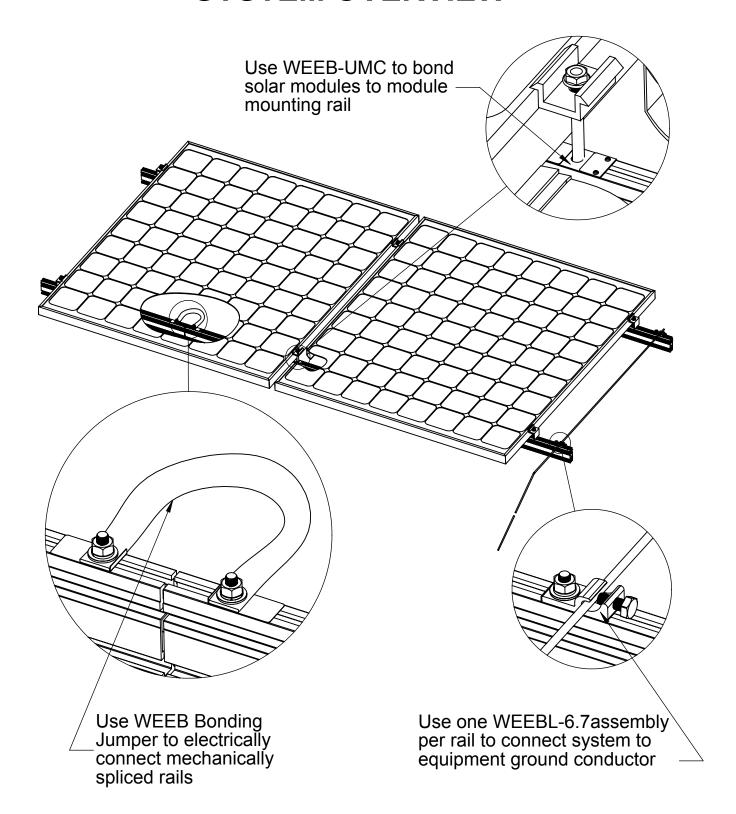
The following are a few variations of lipped solar modules mounted with inverted U-shaped clamps. The low-lipped module requires use of the WEEB-DMC instead of the WEEB-UMC. Notice that the force which the inverted U-shaped clamp exerts is in line with the WEEB teeth.



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.



SYSTEM OVERVIEW

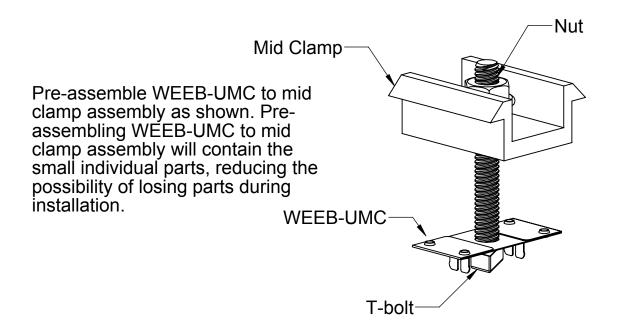


Important notes:

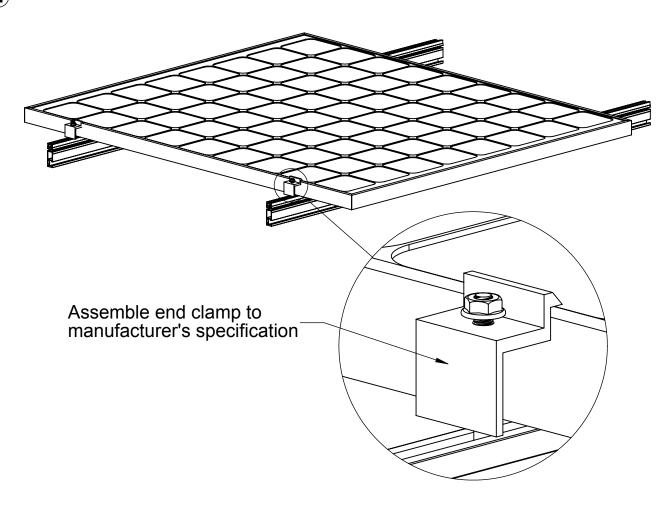
- 1. Use general purpose anti-seize compound on fastener threads when installing WEEBs.
- 2. WEEBs are intended for SINGLE USE ONLY. Functionality will not be guaranteed if reused.

WEEB-UMC ASSEMBLY

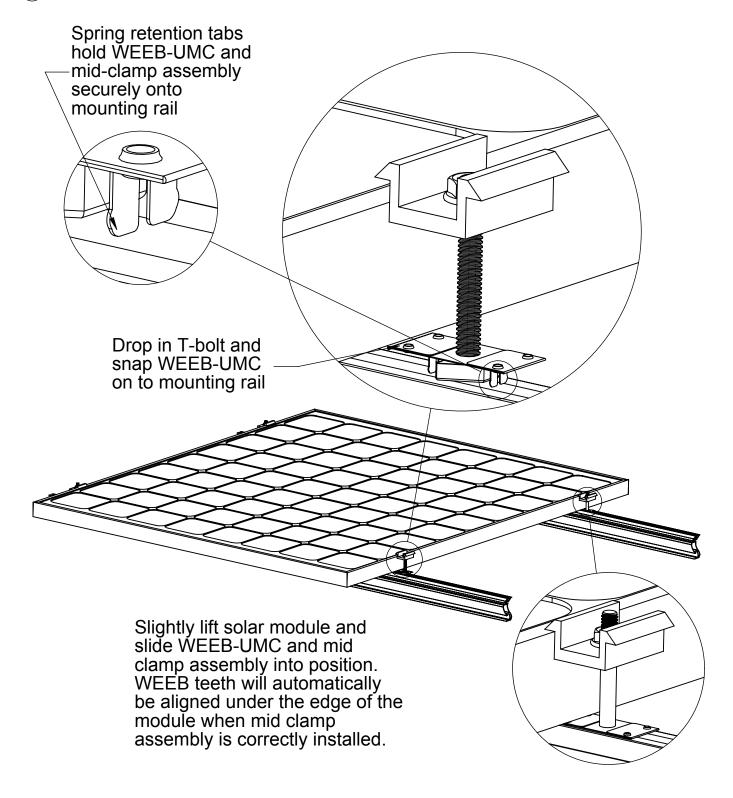










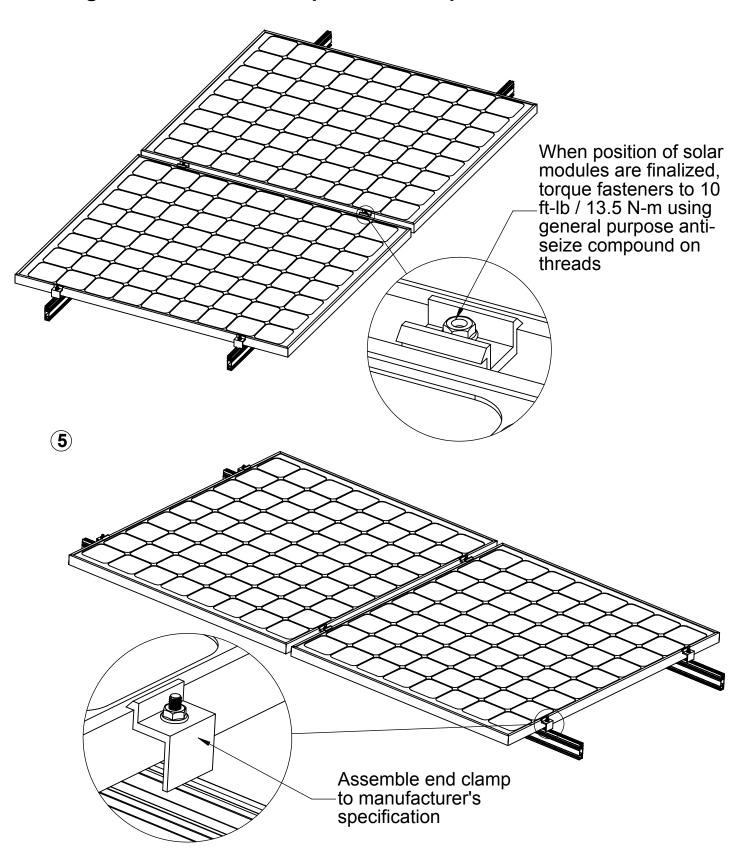


Important note:

To correctly install mid clamp assembly, ensure that the T-bolt is perpendicular to the mounting rail and both sides of the solar modules are completely positioned against the mid clamp. Refer to WEEB compatibility page for illustrations.

Important note:

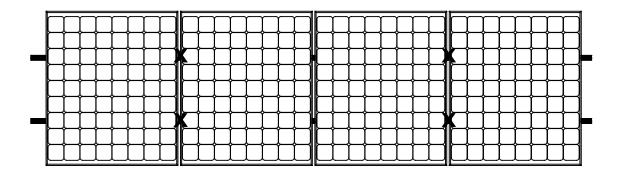
WEEBs are for SINGLE USE ONLY! Do not torque fasteners down if position of solar modules is not finalized. Only slighty tighten fasteners to keep modules in place.



WEEB-UMC LAYOUT



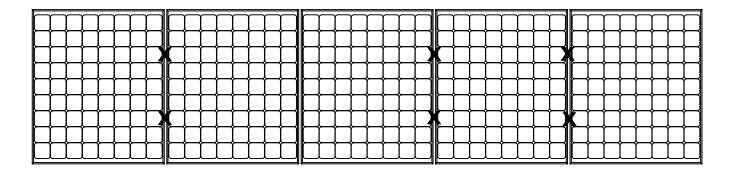
EVEN NUMBER OF MODULES IN ROW



X DENOTES PLACES TO INSTALL WEEB-UMC

C X R = 4 X 1 WEEB-UMC NEEDED = C X R = 4 X 1 = **4**

ODD NUMBER OF MODULES IN ROW



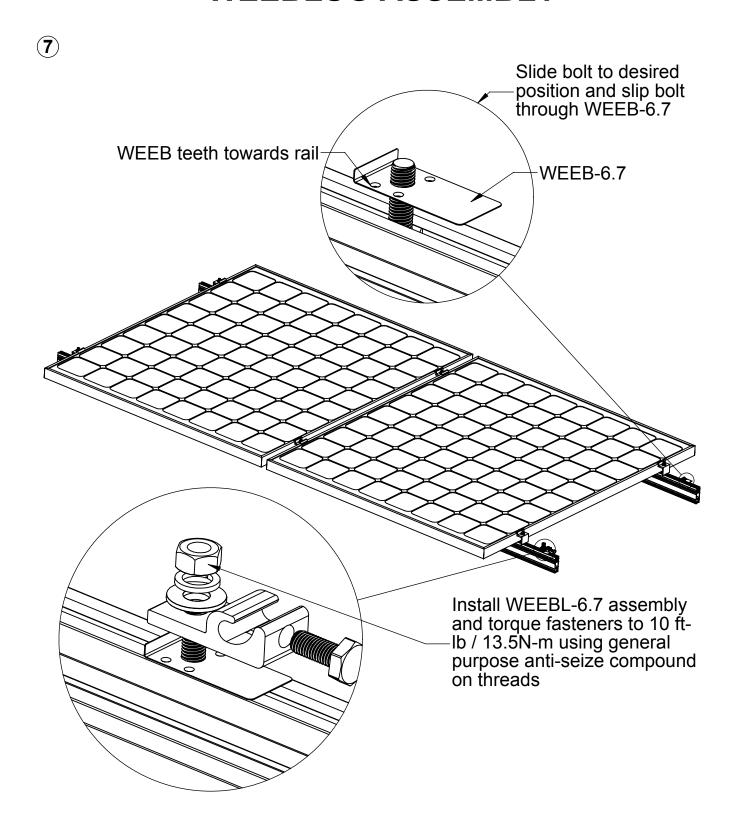
X DENOTES PLACES TO INSTALL WEEB-UMC

C X R = 5 X 1 WEEB-UMC NEEDED = [C+1] X R = [5+1] X 1 = **6**

Note:

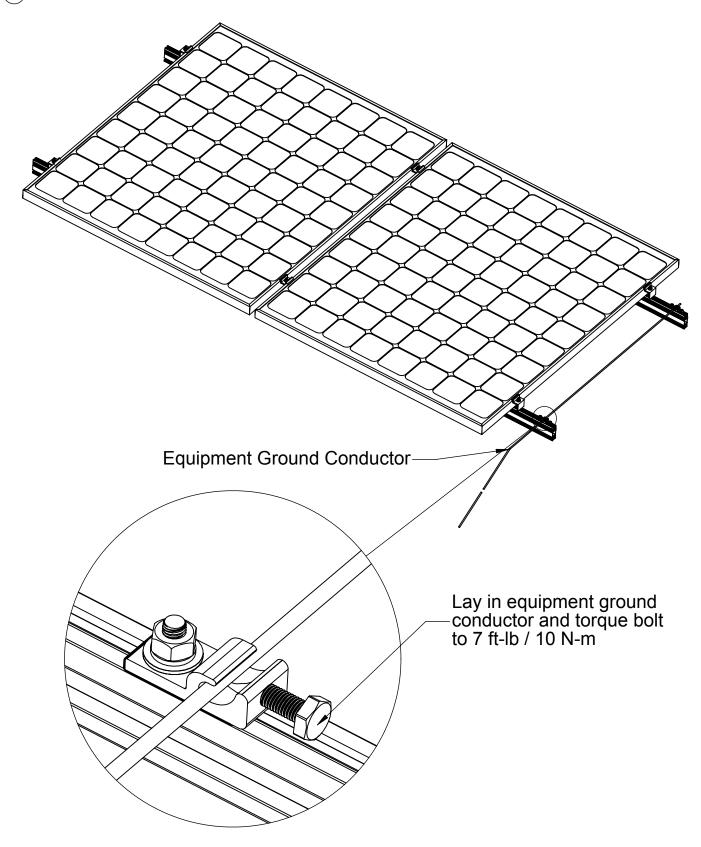
When replacing a single faulty module, also remove the adjacent module which contacts the same WEEBs as the faulty module. This will ensure that there are never ungrounded modules in the array.

WEEBLUG ASSEMBLY



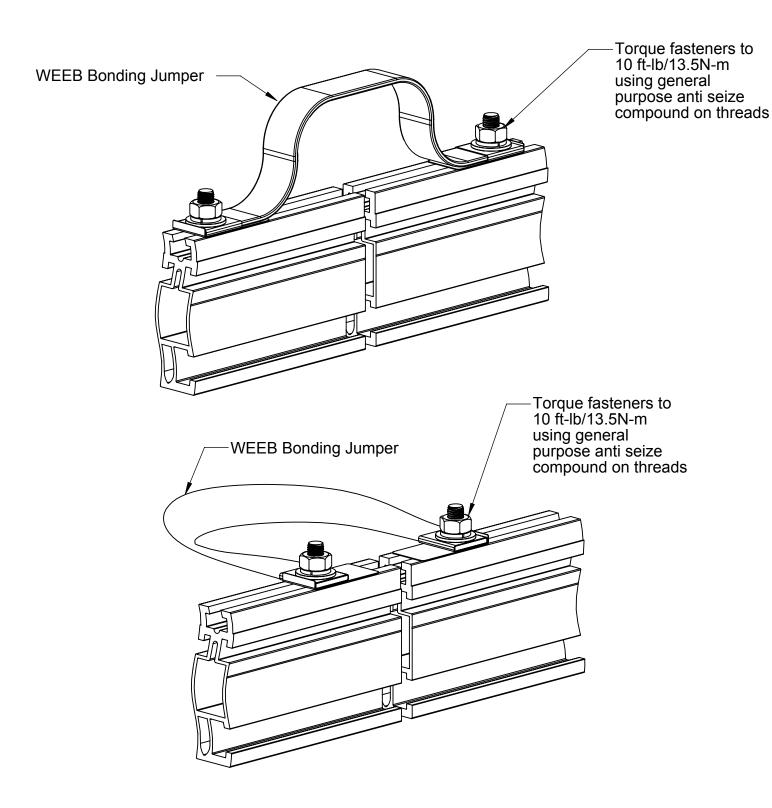
Important note:

WEEB-6.7 that sits under the WEEBLug is for single use only. Ensure position is correct before tightening down.



UMC 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 midclamp assembly as shown. Preassembling WEEB-DMC to midclamp assembly will contain the small individual parts, reducing the possibility of losing parts during installation.

