

U.S. Solar Mounts

4260 TOP Mount Installation Instructions

Adjustable 4" (2) 60-Cell Module Top-of-Pole Mount

REV 1



Ultra-Rugged Solar Mounting Solutions

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CUSTOMER SUPPORT

U.S. Solar Mounts products are designed to be simple and easy to install. If, for whatever reason, you need help during installation, please give U.S. Solar Mounts' customer support a call. We are happy to help ensure each installation goes as smooth as possible. Have a comment or suggestion on how we can improve your experience? Let us know. We would like your feedback... good or bad.

U.S. Solar Mounts

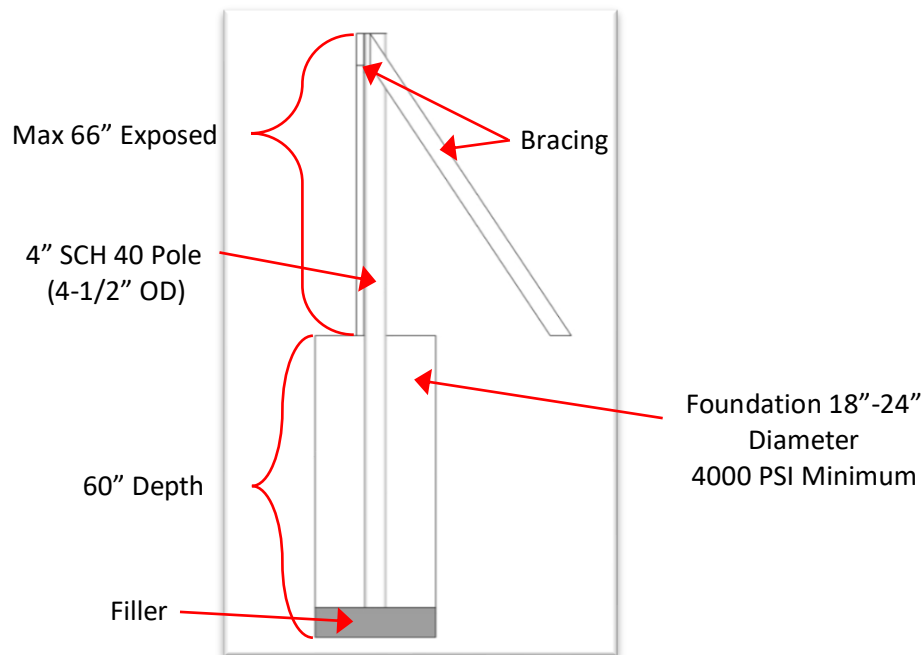
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1. INSTALLING THE POLE

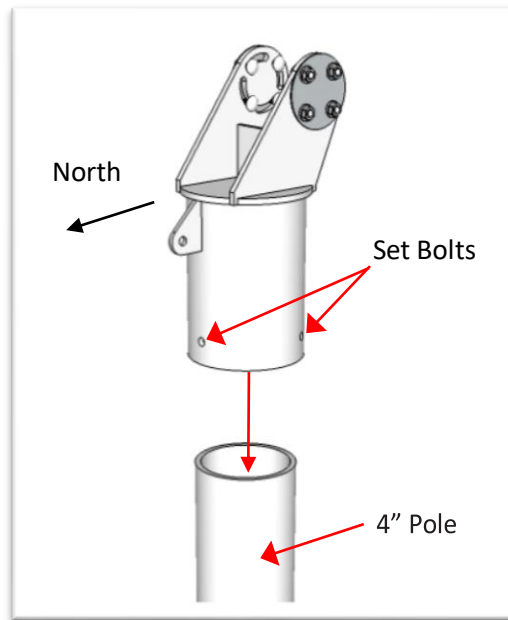
US Solar Mounts has provided a suggested foundation plan below. While this should work for most locations, US Solar Mounts cannot ensure that the following plan will be suitable for all installations. The installer is responsible for verifying that the foundation is adequate and meets all local wind, snow, seismic, etc. requirements.



NOTE: The pole must be installed perfectly vertical and should be braced during pouring and setting of the foundation. Allow the concrete to set for at least 24 hours before continuing with the installation of the mount.

2. PLACING THE POLE MOUNT

Once the foundation has been allowed to cure, the rest of the array can be installed. Unpack the Slipfitter Assembly (shown on the next page) and slip it onto the pole so that the 'fin' on the one side is aimed due **North**. The set bolts may need to be removed to set the assembly on the pole. Once in place, fully tighten the set bolts to secure the mount in place.

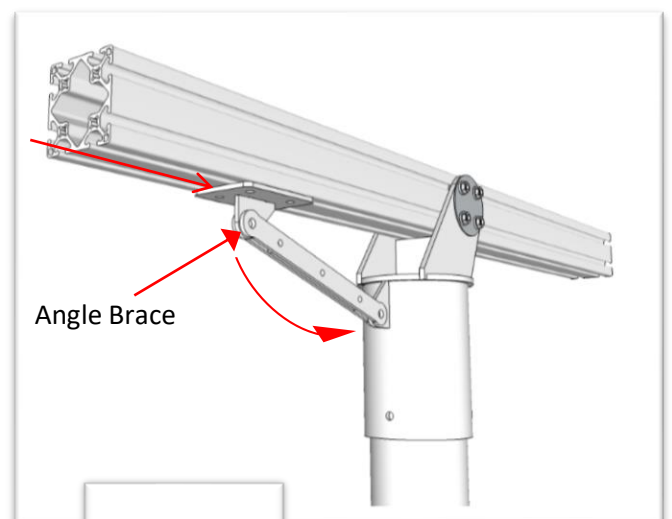
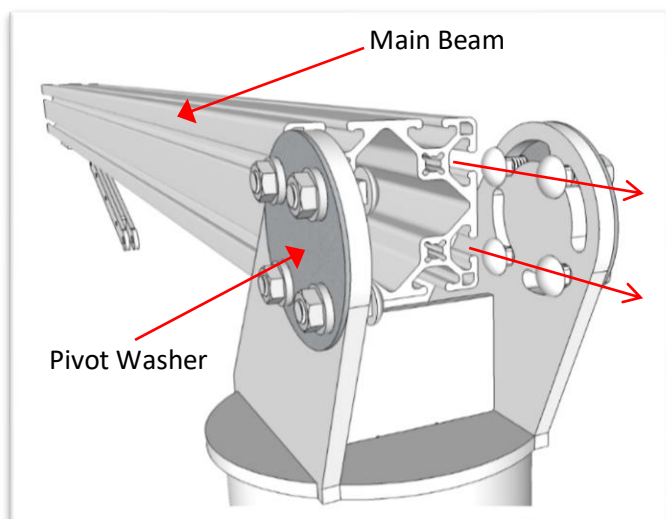


3. INSTALLING THE MAIN RAIL AND ANGLE BRACE

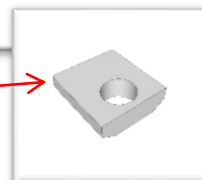
NOTE: The Main Rail will need to be trimmed to length for modules not supplied by US Solar Mounts. The length will be the hole-to-hole distance of the mounting holes plus 1-1/2" to accommodate the Panel Rails.

The Slipfitter Assembly comes with the Pivot Washers and Main Beam bolts loosely installed as shown below. Locate the Main Beam and measure and mark the center of the long dimension. Slide the Beam onto the carriage bolts as shown, until the center mark of the beam matches with the center of the Pivot Washer.

Gently snug the nuts on the carriage bolts to hold the Beam in place. Slide the Angle Brace into the Beam as shown on the **North** side. The slot nuts and button head bolts come pre-installed. Swing the Angle Brace up to meet the 'fin' on the back of the Slipfitter Assembly and place the bolt in the hole to secure the array for the rest of the installation.



Slot Nut
(enlarged)

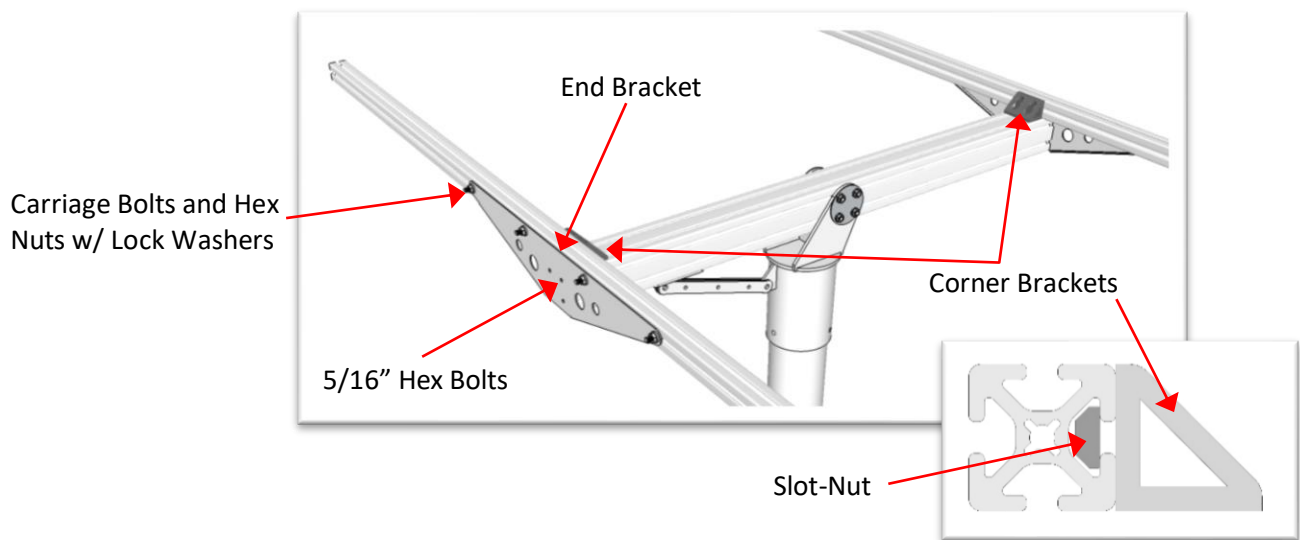


4. INSTALLING THE PANEL RAILS

Before the Panel Rails can be installed, the End Brackets and Corner Brackets will need to be secured on both ends of the Main Beam. The Corner Brackets will come with the slot nuts already installed, and only need to be slid onto the top of the Main Beam for now. Make sure they are positioned with the square corner on the outside of the array as shown below.

To install the End Brackets, there are 4 threaded holes in each end of the Main Beam that line up with 4 of the holes on each Bracket. Position the Bracket so that the formed flanges are facing in, towards the center of the array, and then install the 5/16"-18 hex bolts with split-lock washers to secure the End Brackets.

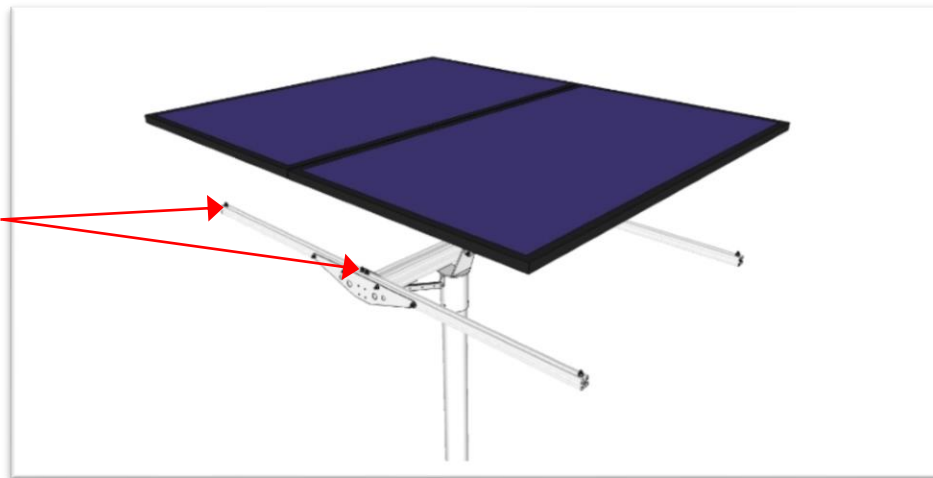
Mark the center of the Panel Rails, and then slide them into position using the slot nuts on the Corner Brackets. Slide 4 carriage bolts into the outside slot of the Rail and position them to line up with the End Brackets as shown. Secure the Rail using the hex nuts and split lock washers on the carriage bolts. Don't forget to tighten down the button head bolts in the Corner Brackets to finish off the assembly.



5. INSTALLING THE PANELS

To install the Solar Panels onto the mount, first slide 4 carriage bolts into the top slot of each Panel Rail. Set the Panels into position so that the carriage bolts are in the mounting holes provided on the module frame. The cable box on the underside of the modules should be positioned the same for both Panels. Use the serrated flange nuts to tighten the modules onto the Rails.

Carriage Bolts and
Serrated Flange Nuts



6. TILTING THE ARRAY

Assembly of the mount is now complete. The installer is responsible for ensuring the proper wiring of the modules for the given project.

Once the wiring has been routed, the array can be tilted to the desired final elevation. Ensure both the Angle Brace's and the Pivot Washer's bolts are tightened.

