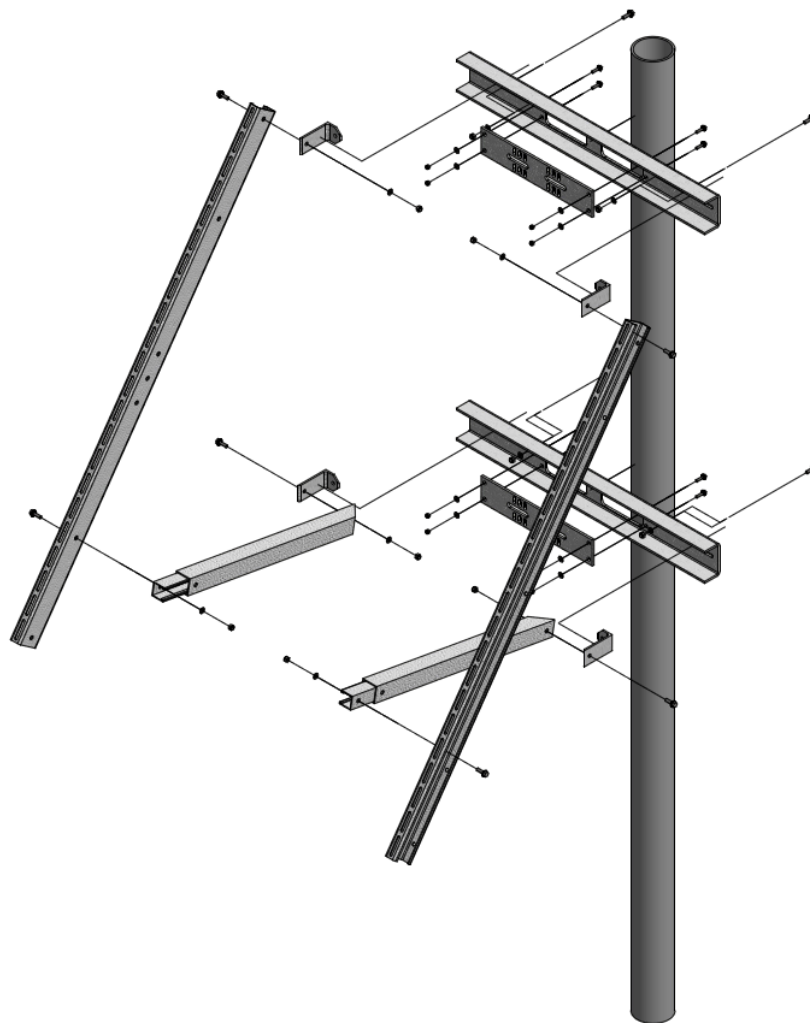


# SunWize Power & Battery Mount Installation Guide Side of Pole



## Mount Assembly and Installation: (SOP) Side-Of-Pole Mounts

Each rack is optimized for specific pole diameter ranges, for standard round SCH40 steel poles. Ensure that the pole used matches the optimal range for the racking equipment provided. Other options are available up to 24" in diameter.

Standard SOP mounts are as follows:

| Part #       | Rail Length (inches) | Pipe Size (Schd. 40) | Max Module Qty. |
|--------------|----------------------|----------------------|-----------------|
| Small Format |                      |                      |                 |
| 007954       | 27                   | 2-6                  | 1               |
| 007974       | 27                   | 8-10                 |                 |
| 007961       | 44                   | 2-6                  | 1               |
| 007975       | 44                   | 8-10                 |                 |
| 007962       | 60                   | 2-6                  | 2               |
| 007981       | 60                   | 8-10                 |                 |
| 007956       | 96                   | 2-6                  | 3               |
| 007977       | 96                   | 8-10                 |                 |
| 007957       | 110                  | 2-6                  | 4               |
| 007978       | 110                  | 8-10                 |                 |
| Large Format |                      |                      |                 |
| 240002       | 60                   | 2-6                  | 1               |
| 240007       | 60                   | 8-10                 |                 |
| 240003       | 96                   | 2-6                  | 2               |
| 240008       | 96                   | 8-10                 |                 |

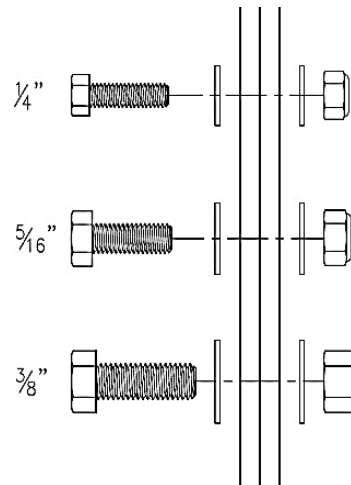
The mount consists of:

- 2x Module rails
- 4x L-Brackets
- 2x Tilt arms
- 2x Saddle Brackets
- 4x Bearing Plates
- 2x Saddle Plates
- 4x SS Band clamps
- 1/4", 5/16", 3/8" SS hardware kits as needed
- Optional U-bolt (available 2"-10")
- Optional Adapter for large diameter poles
- Optional High wind kit (included with 007957 and 007978)

**\*\*NOTE\*\***

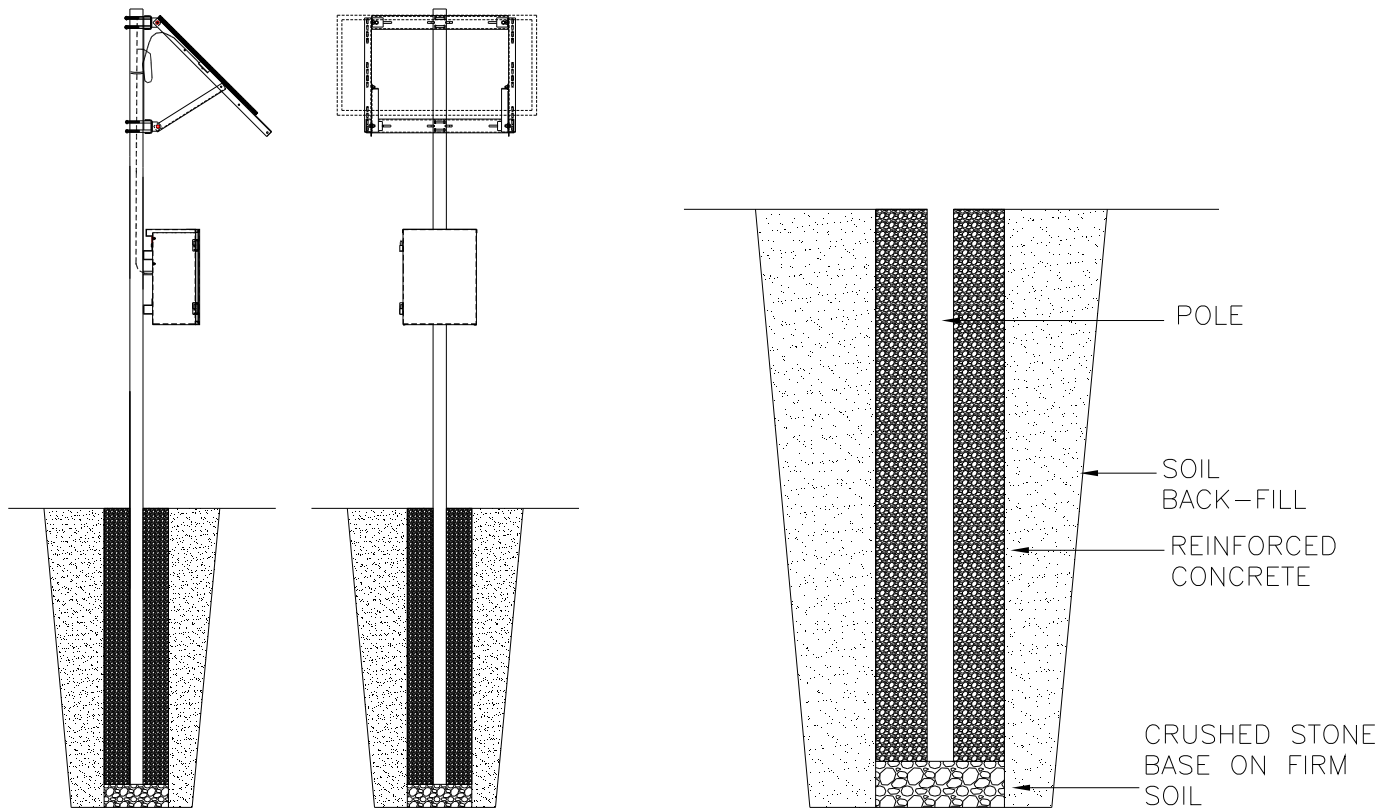
**Apply anti-seize to all hardware to prevent galling.**

**\*\*NOTE\*\***



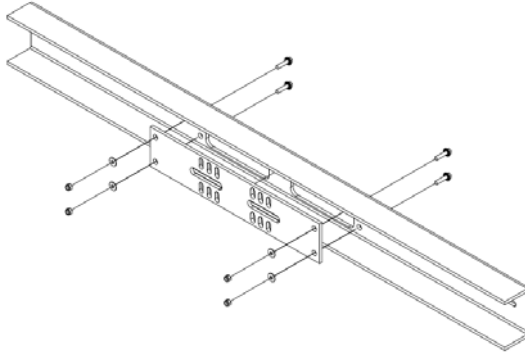
## Pole Mount Site Preparation

- The pole used to support the PV array must be designed per the local soil conditions to meet the following minimum requirements:
  - Array area based at tilted angle
  - Typical sustained wind speed per the recommended local building code.
- The pole is to be seated against a firm crushed stone base, on firm compacted soil a minimum of 6" below the frost line encased in reinforced concrete per ASTM standards.
- The pole is to be level and plumb.
- Pole diameter and wall thickness sized to withstand array forces without damage.



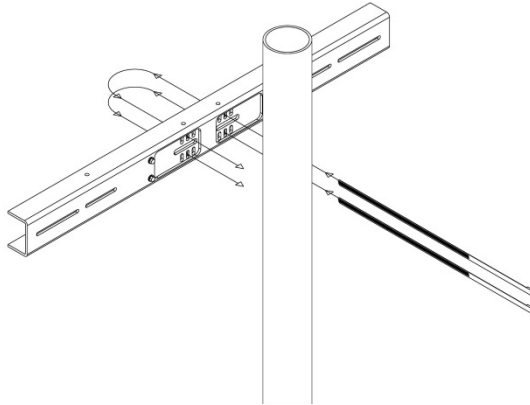
## Mount Installation

1. Fasten the saddle plates to the saddle brackets using the provided 3/8" hardware. For 3/8" hardware, tighten using 9/16" wrench to 18-20 Ft. lbs. torque. **USE ANTI-SEIZE**

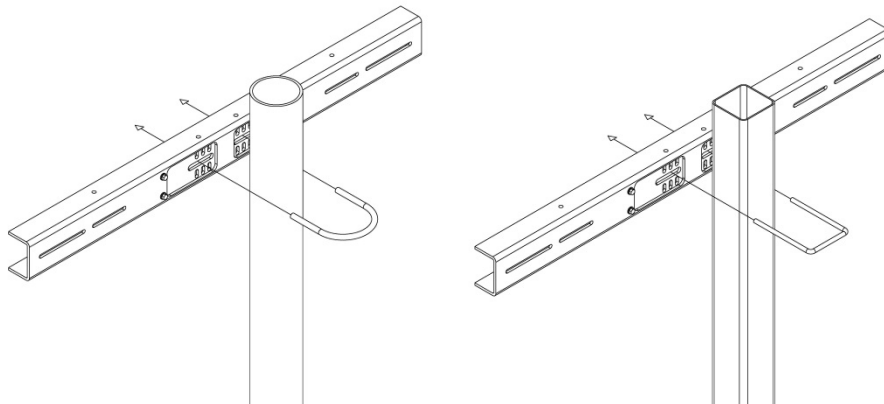


2. Fasten the upper saddle to the pole at the desired maximum height of the mount using two 1/2" stainless steel band clamps (provided). For high wind loads U-bolts (not provided) are required. The saddle can optionally be lag-bolted or through-bolted to the pole. Tighten setscrew using 5/16" wrench to 30-35 in. lbs. torque.

### Band Clamp Mounting



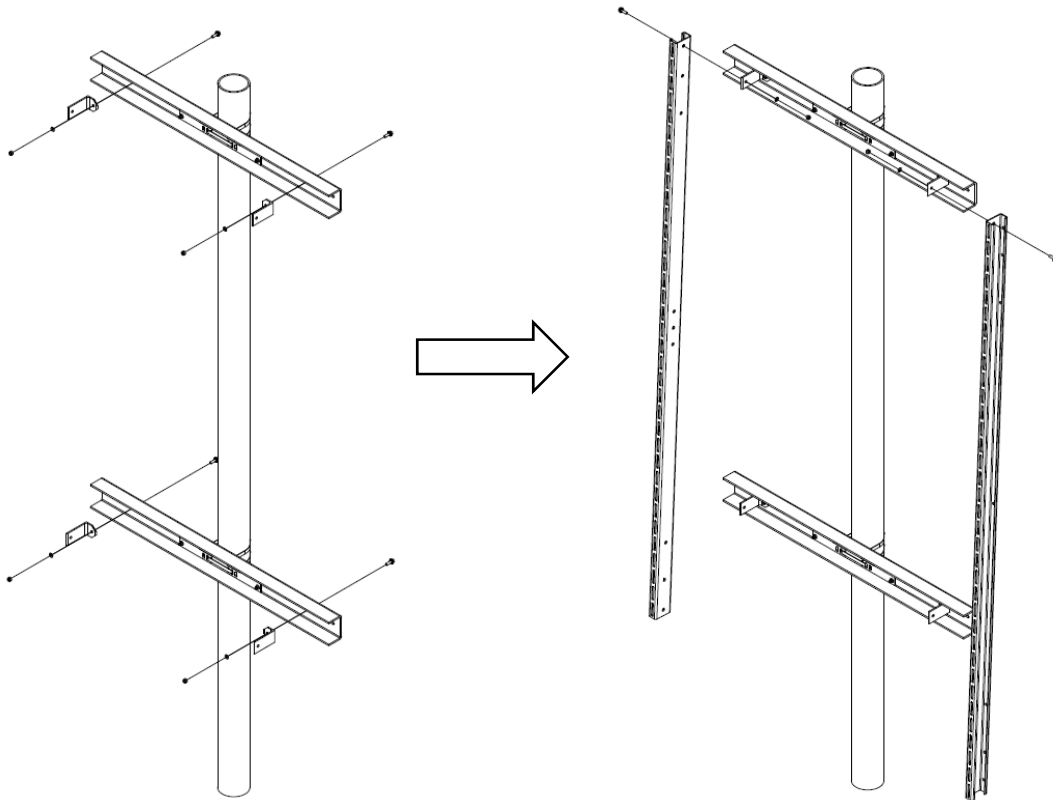
### U-Bolt Mounting



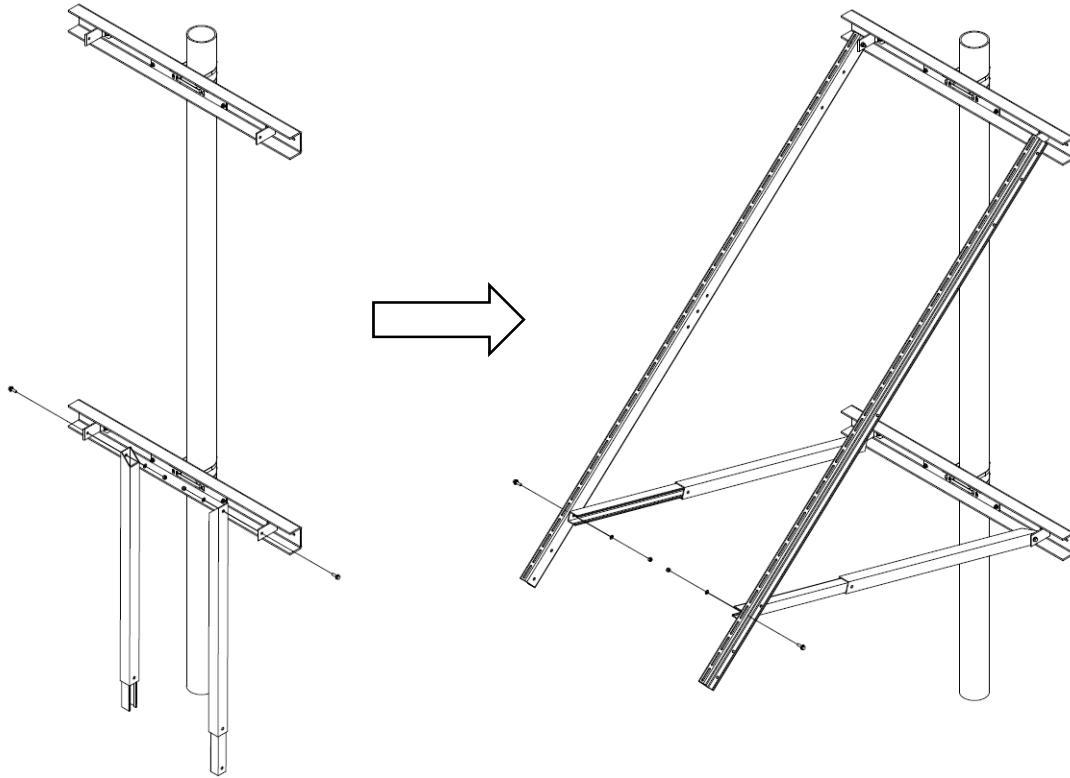
3. Loosely fasten the lower saddle to the pole. Use the below chart for rough spacing between the two saddles.

| Approximate Saddle Spacing |         |
|----------------------------|---------|
| Rail Length                | Spacing |
| 27                         | 2 ft    |
| 44                         | 3-4 ft  |
| 60                         | 4 ft    |
| 96                         | 6-7 ft  |
| 110                        | 7 ft    |

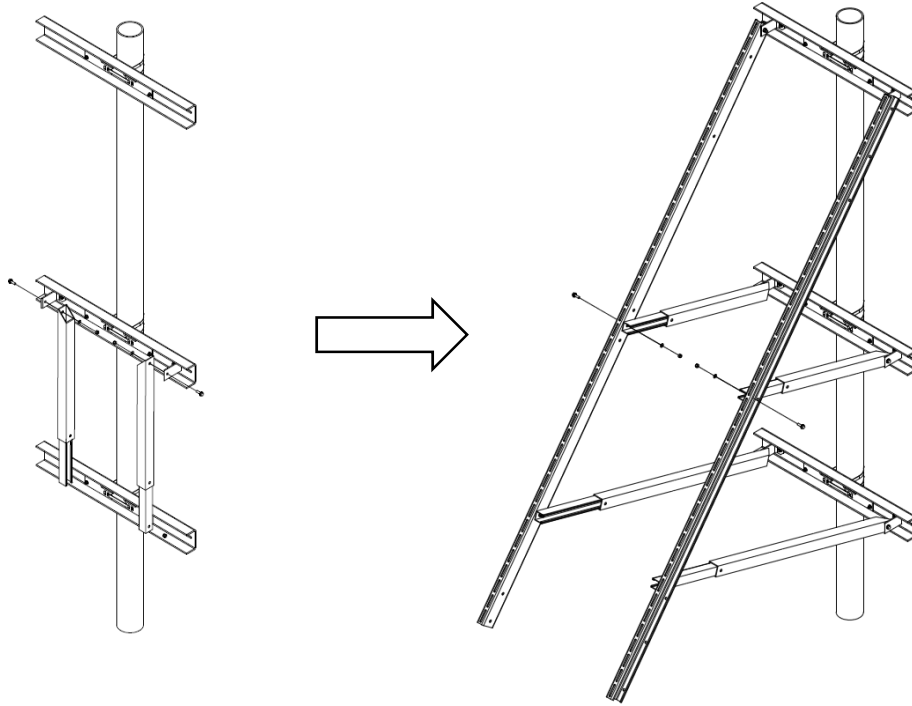
4. Mount L-brackets to saddles using the 5/16" hardware provided. For 5/16" hardware tighten using 1/2" wrench to 10-12 ft. lbs. torque. **USE ANTI-SEIZE**
5. Attach panel rails to upper saddle L-brackets using the 5/16" hardware provided. **USE ANTI-SEIZE**



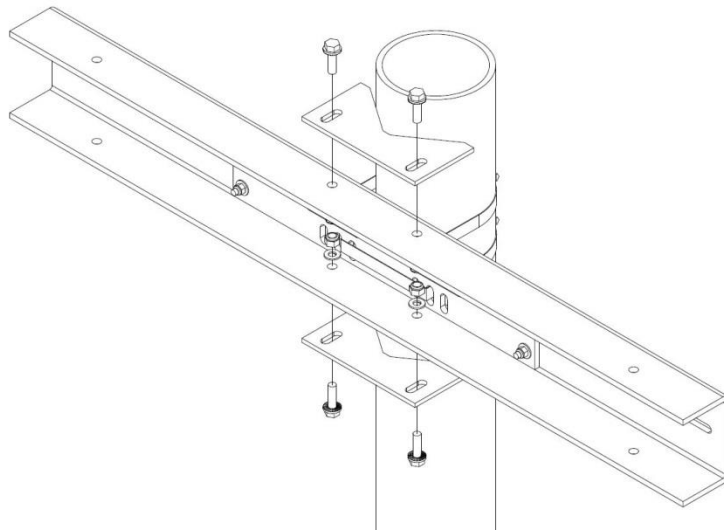
6. Attach tilt legs to lower saddle L-brackets. Adjust the tilt angle by adjusting the tilt arms and lower saddle to the desired angle of tilt then tighten the U-bolt/band clamp on the lower saddle. For 5/16" hardware tighten using 1/2" wrench to 10-12 ft. lbs. torque, for 3/8" hardware, tighten using 9/16" wrench to 18-20 ft. lbs. torque. **USE ANTI-SEIZE**



7. Optional: Attach the high wind saddle bracket between the upper and lower saddle brackets using a U-bolt (not included) or the provided band clamps. Bolt the L-brackets to the saddle bracket and the tilt arms to the L-brackets with the provided 5/16" hardware. For 5/16" hardware tighten using 1/2" wrench to 10-12 ft. lbs. torque. **USE ANTI-SEIZE**



8. Attach a bearing plate to the top and bottom of each saddle bracket with the provided 3/8" hardware. Push the plates tightly against the pole and tighten the bolts. Optional: For 12"-24" poles, use the bearing plates provided in the large pole adapter kit. **USE ANTI-SEIZE**



9. Check alignment of all assembled parts and ensure all bolted connections are tight.

10. Mount the solar modules to the rails using the 1/4" hardware provided. **USE ANTI-SEIZE**

