

Installation Manual

2" Series Top of Pole Mount

www.mtsolar.us
844-MT-SOLAR (687-6527)

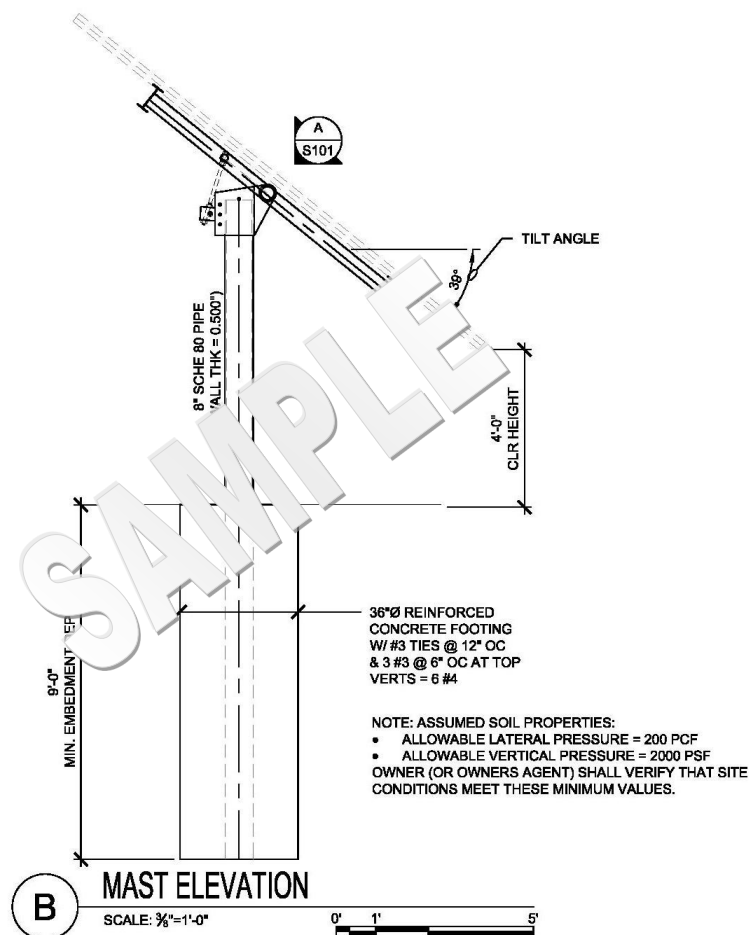
2016 V2.1



Thank you for choosing MT Solar Pole Mounts.

It is the installer's responsibility to determine foundation parameters based on local site conditions, such as wind speed, snow load, soil type, exposure category, etc. Installations also must comply with local building regulations and requirements.

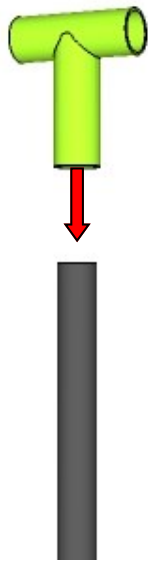
We recommend consulting an engineer for a recommendation on foundation dimensions and pipe size and thickness. MT Solar can also provide a stamped drawing engineered for site-specific requirements for an additional fee. Please contact us to find out more.



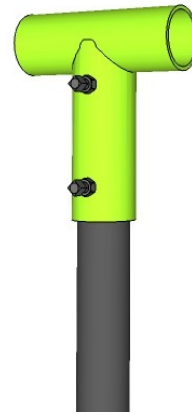
Tips for Conventional Pipe Installation:

- Dig hole according to recommended depth and diameter.
- Set pipe in hole and use a level to ensure it is plumb and vertical to the ground.
- If installing multiple poles, use a string to line up pipes.
- Brace pipe to prevent it from moving while pouring concrete.
- Proper compaction of backfill around sonotube or form is recommended, unless pouring so that concrete is in direct contact with the soil.
- Allow concrete to cure for recommended length of time.

Installation Guide



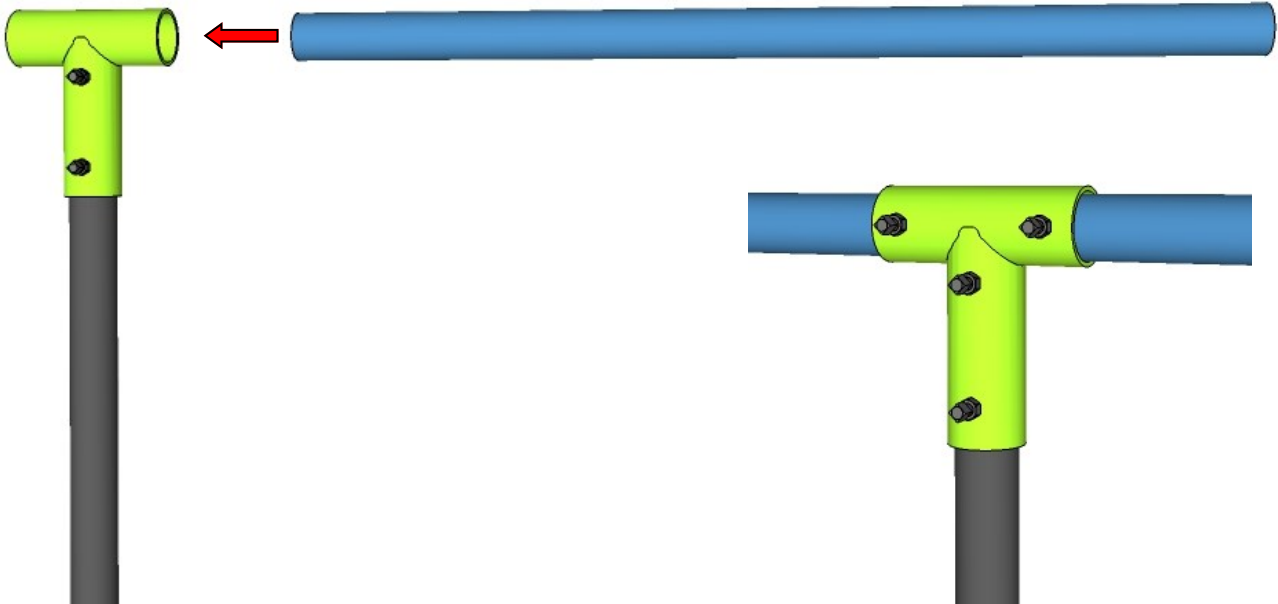
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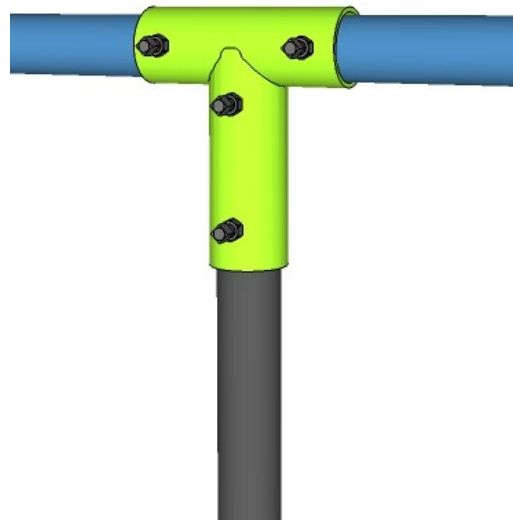
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101: With the 2" Sch 40 pipe installed in the ground, slide the pole cap over the pipe.

102: Tighten the set bolts in the back of the pole cap.



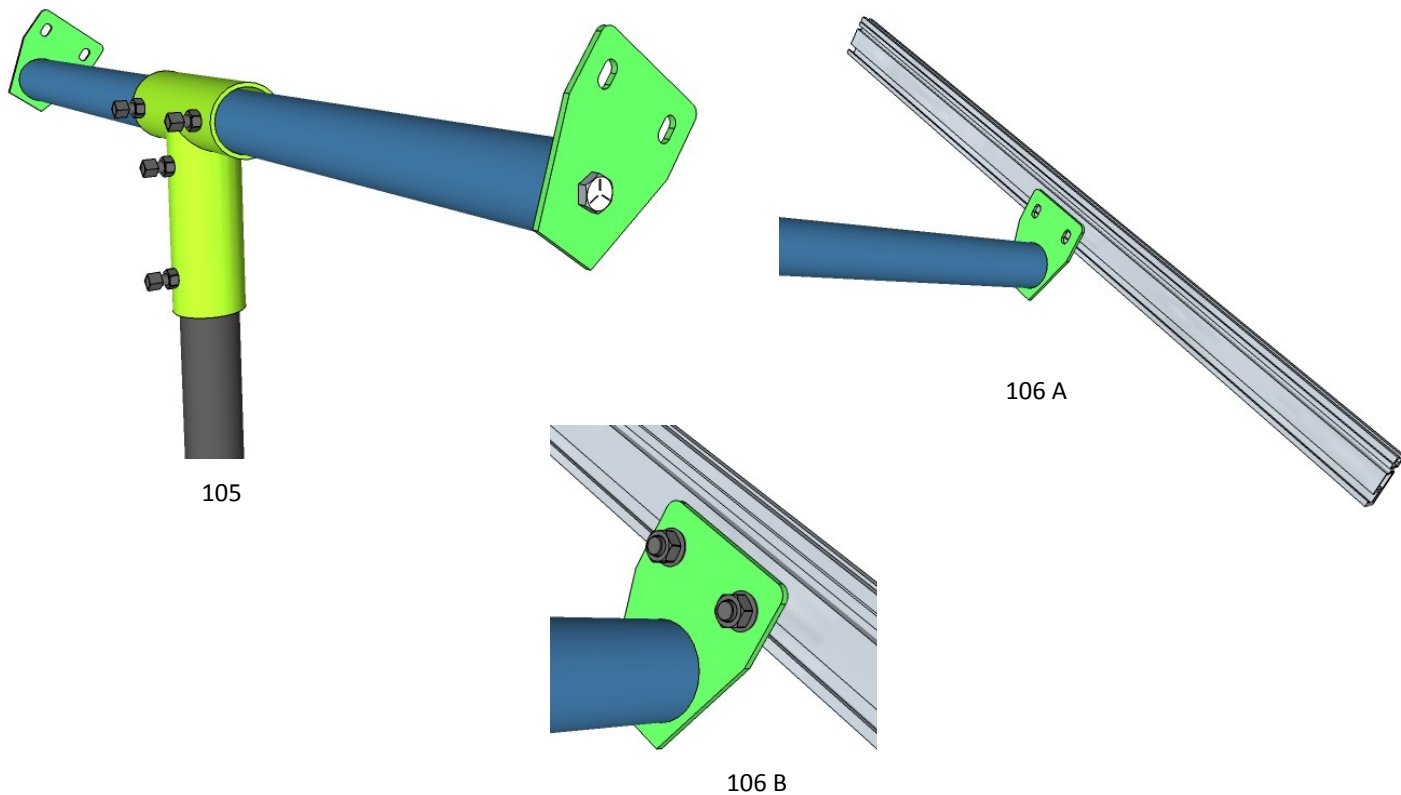
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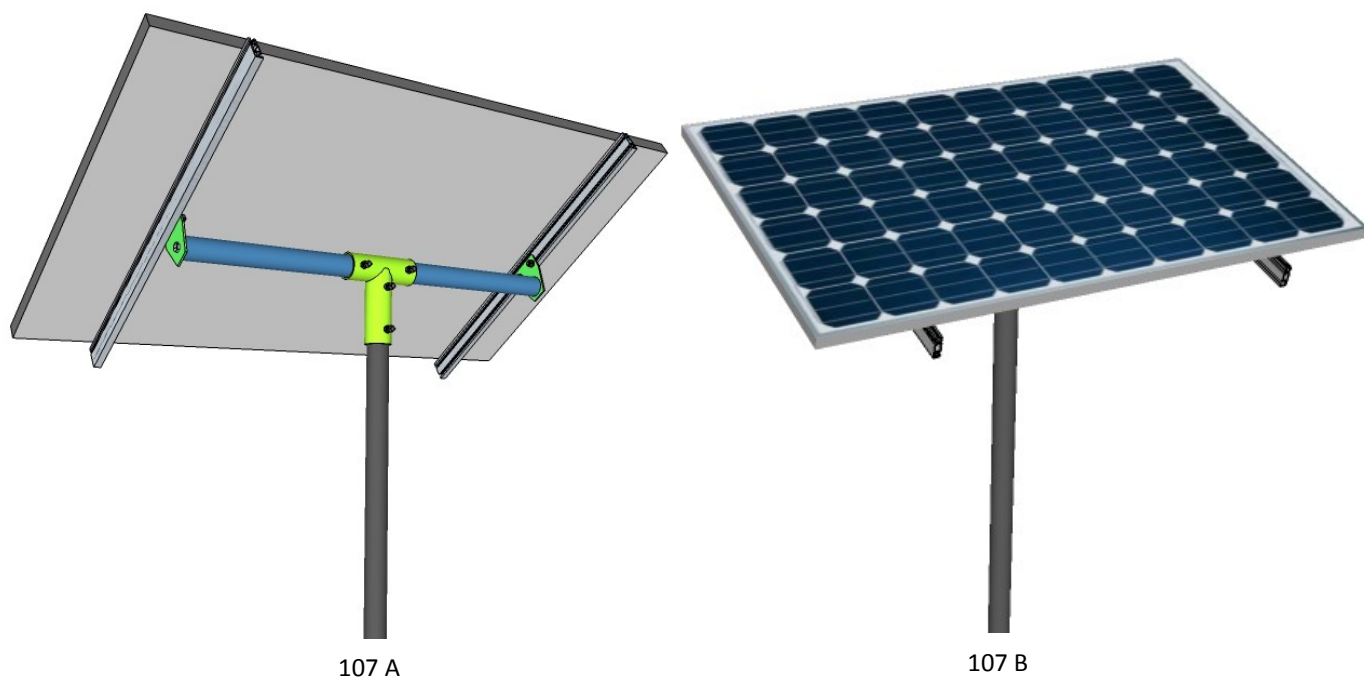
103: Slide the 2" Pipe into the Pole Cap Sleeve.

104: Tighten the set bolts in the Pole Cap.



105: Attach the Rail Adapters to the ends of the 2" Pipe and tighten.

106: Line up the bottom slot on the aluminum rail with the holes in the rail adapter. Slide stainless hardware into the slot and tighten.

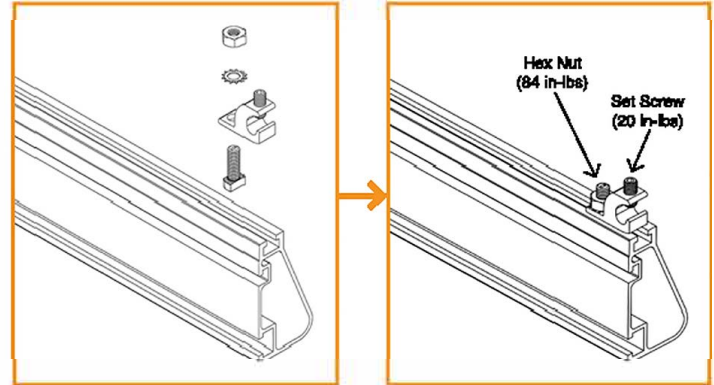


107: Attach aluminum rails to the rail adapter . Install Solar Modules as per Mounting Rail and module manufacturer instructions using top clamps.

GROUNDING LUG

Assemble Grounding Lug with provided hardware. Torque hex nut to **73 in-lbs**. Install a minimum 10 AWG solid copper grounding wire. Torque set screw to **20 in-lbs**.

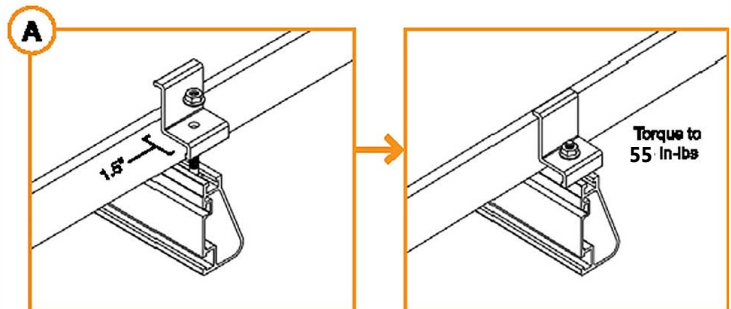
- Grounding hardware is only needed on one rail per row of modules. Grounding Lugs must be installed on same rail as Grounding Straps.



A. FIRST END CLAMPS

Place first module a minimum of 1.5" from rail ends. Slide End Clamps into both rails and hook over top of module. Torque to **55 in-lbs**.

- ⚠ Ensure rails are square before placing modules.
- ⚠ Hold End Clamps while torquing to prevent rotation.

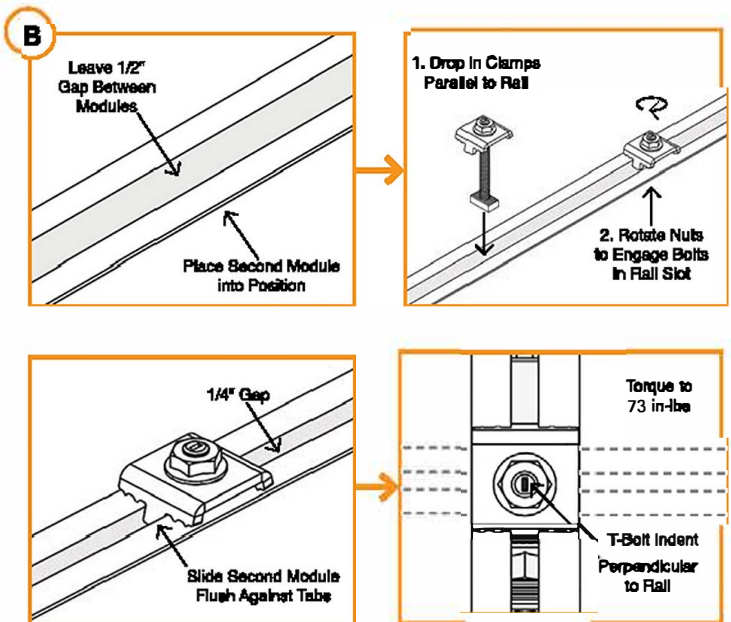


B. MID CLAMPS

Place second module into position, leaving a 1/2" gap between it and the previous module. While holding module in place, drop Grounding Mid Clamps into rail slots and rotate nuts to engage T-bolts.

Slide second module flush against clamp tabs. Once clamp teeth are in contact with both module frames and the bolts are properly aligned in slots, torque to **73 in-lbs**. Repeat procedure for each following module.

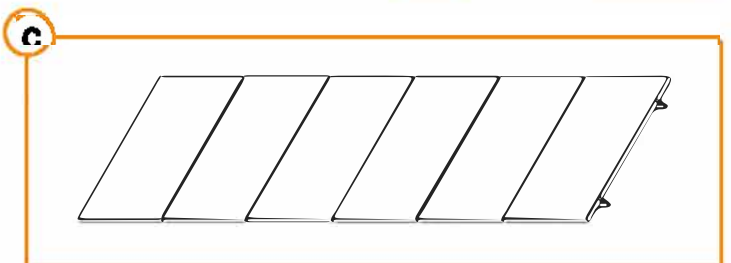
- Make sure indent at top of T-bolt is perpendicular to rail slot to ensure T-bolts are properly seated.
- If using Standard Mid Clamps with ETL-listed WEEB Clips, refer to [WEEB Installation Instructions](#). Torque to 120 in-lbs.



C. LAST END CLAMPS

Place last module in position on rails, a minimum of 1.5" from rail ends. Slide End Clamps into both rails, ensuring it is hooked over top of module. Torque to **55 in-lbs**.

- Repeat all steps for each following row of modules.



844-MT-SOLAR (687-6527)

sales@mtsolar.us

www.mtsolar.us

54179 Herak Road

Charlo, MT 59824

