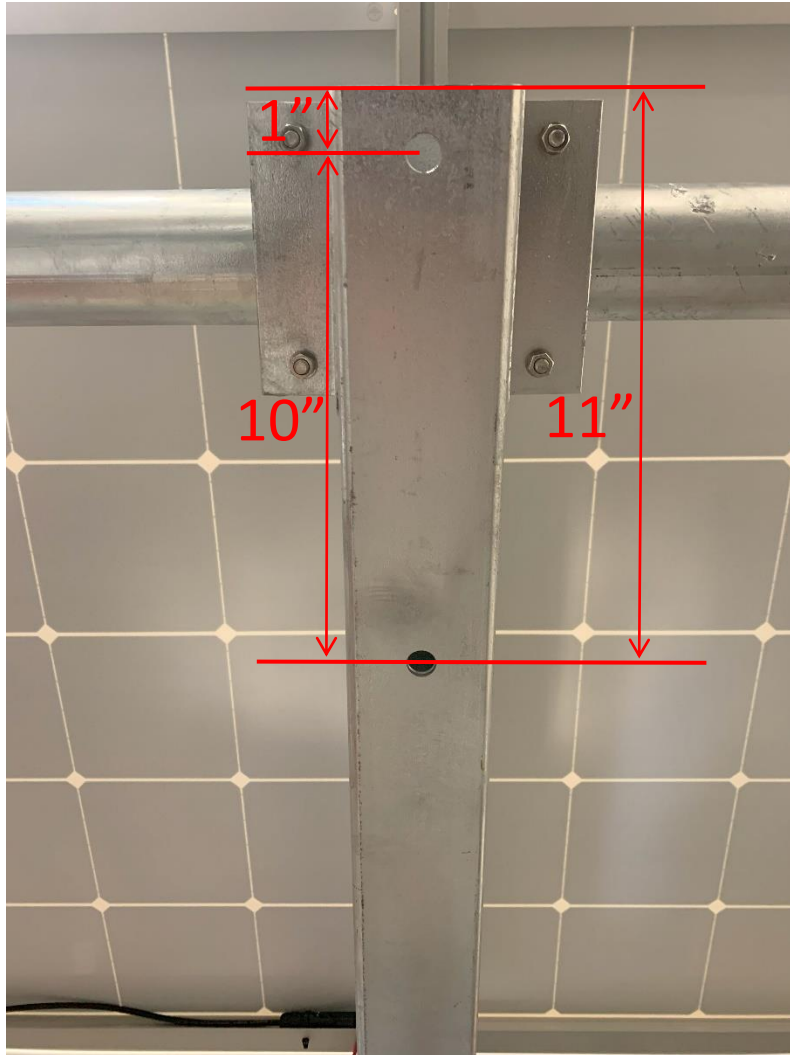


- **Preparation and Girder Mount Install– All Systems**
 - Adjust solar array to 10° position.
 - Drill 5/8" holes on under-side of solar mount square girder at 1" and 11" from back end of girder and centered at 1-9/16".



- **For MobileSolarPro** - Remove fuses from battery leads, with solar panels in travel position and travel ratchet straps attached remove 27mm adjustment bolt from square girder.
- **For Ground or Palletized Systems** - Remove fuses from battery leads, remove 27mm adjustment bolt from square girder/adjustment arms, and tilt solar assembly back until pole cap is contacted.
- Slide girder turbine mount into square girder and install 19mm x 32mm bolts with 1/2" flat washers to secure and re-install 27mm adjustment bolt into square girder.



- Remove plastic plug from deck aluminum enclosure and install black feed through from kit.
- Run RP-cable from kit into aluminum enclosure and attach to:
 - **Mobile SolarPro:**
 - **Dual Red Switch Powerboard:** B2+ and B2- on power center terminal block with 12-10AWG spade terminals.
 - **Breaker Switch Powerboard:** Red & black terminals receiving battery leads.
 - **All Systems:** Direct to battery terminals.
- Using 12" zip ties start at girder turbine mount at end of square tubing, leave about 8-12" of cable on girder turbine mount, zip tie down the mount, and square girder until about 12" from the pole cap.



- Feed slack into deck aluminum enclosure and tighten down the feed through.

- **Optional Preparation for MobileSolarPro and Girder Mount Install – Note: Only Applicable to Trailers with 3/4" Rigid Conduit or Flex Conduit**
 - While solar cover is installed, put solar array in 10° position, remove fuses from positive battery cable fuse holders, install travel ratchet straps, remove 27mm adjustment bolt on solar assembly, then remove solar panel wires in aluminum enclosure on the powerboard terminal block located on PV+ and PV-.
 - Cut the 8" zip tie(s) in adhesive mounting square(s) holding RPST cable to the right of the power center in the aluminum enclosure.
 - Attach technician wire by wrapping above the heat shrink on RPST cable or using electrical tape.
 - Feed RPST cable back up center pole through pole cap with end of technician wire still down in aluminum enclosure.
 - Drill a 3/4" hole in underside of solar mount square girder 4" towards back of trailer from center mounting bolt securing girder to pole cap centered at 1-9/16".
 - Feed technician wire through 3/4" hole out back end of the girder and through girder turbine mount out the side hole.
 - Attach RP-cable from turbine kit to technician wire on turbine mount end and pull back through girder turbine mount and 3/4" hole in girder.
 - Slide girder turbine mount into the solar mount square girder and align 5/8" holes and install 19mm x 32mm bolts with 1/2" flat washers to secure mount and re-install 27mm square girder adjustment bolt.
 - Remove EMT compression connector in the center of aluminum enclosure or the 3/4" flex conduit and 90° connector going into the center pole using needle nose pliers and push into pole and remove with technician wire remaining outside center pole.
 - Using electrical tape, tape the turbine RP-cable to the solar panel RPST cable, and run both cables back down through the center pole by pulling the technician wire back through.
 - Put both cables through the rigid conduit and EMT compression connector or the 3/4" 90° connector and 3/4" flex conduit, feed both cables through hole in aluminum enclosure until rigid conduit can be fed back into center pole and then into the aluminum enclosure then reattach EMT compression connector nut and tighten with needle nose pliers.
 - Feed new 8" zip tie(s) into adhesive square mount(s), attach solar panel RPST cable back to PV+ and PV-, strip insulation off turbine RP-cable and attach to:
 - **MobileSolarPro:**
 - **Dual Red Switch Powerboards:** B2+ and B2- with 12-10AWG spade terminals.
 - **Breaker Switch Powerboards:** Red & black terminal block receiving the battery leads.
 - **All Systems:** Directly to batteries.

- With a small bend in RPST cable connections to power center hold both RPST cables, mast harness, 110V, and any additional wires previously in first zip tie to the right of the power center and secure.
- Feed any additional slack in RPST cables back into center pole until snug when put in place in second zip tie to the right of the power center if present and secure.
- You are now ready to install the wind turbine and the turbine adjustment arm.
- **Wind Turbine and Turbine Adjustment Arm Install**
 - Install wind turbine blades to hub with supplied bolts and nuts and set aside.
 - Install wind turbine to adjustment arm by first installing bolts with flat washers through turbine plate, connect 3 pin connector in adjustment arm to turbine and push into adjustment arm until plates are seated and bolts are all the way through, then install flat washers, lock washers, and 19mm nuts to secure.
 - Install adjustment arm to turbine with 19mm x 38mm bolt, 1/2" washers, lock nut in center hole loosely, and connect RPST cable.
 - Lift turbine and adjustment arm into desired position: 10° position (bottom bolt hole), 45° (bolt hole towards front), or 55° (bolt hole towards rear) and install 19mm x 38mm bolt with flat washers, and lock nut loosely.



- Adjust solar array to desired position, check bubble level on adjustment arm to verify wind turbine is level, and tighten.

- **MobileSolarPro:** Advise due to the additional weight to the solar array use ratchet straps to assist for one-person setup by hooking strap on front outer u-brackets of solar array to trailer frame's rear anchor points or D-links (see pictures below).



