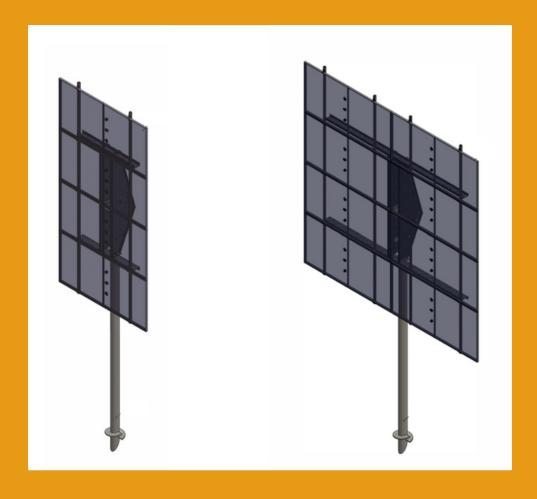
### SunRanger Monopole MP-4L & MP-8L



UNIT 2, 34 WRANGLER PLACE SE | CALGARY, AB T1X 0L7 www.Azgard.com | Phone: 403-236-5501



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### **Monopole 4P System Includes:**

- 1 Hardware package
- 2 Pivot plates (laser etched East and West)
- Pile pivot adapter
- 2 Pile saddles
- 2 Purlins
- 4 Purlin troughs
- 2 Beams 58"

### **Monopole 8P System Includes:**

- 1 Hardware package
- 2 Pivot plates (laser etched East and West)
- Pile pivot adapter
- 2 Pile saddles
- 4 Purlins
- 8 Purlin Troughs
- 2 Beams 148"

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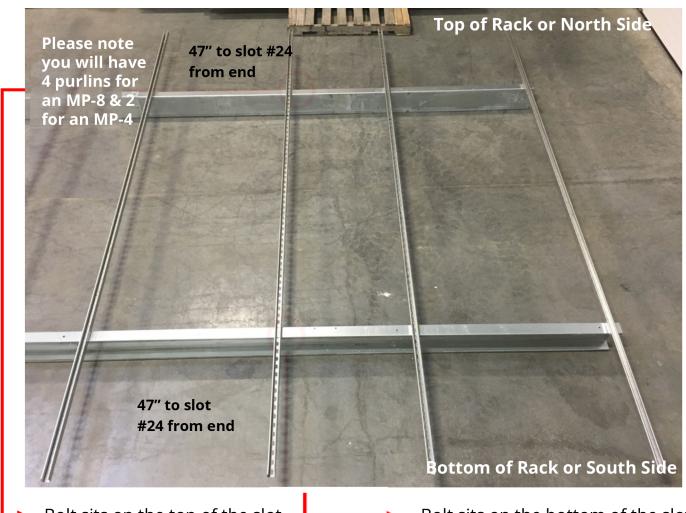
### **Purlin Location**

Before installing the purlins pre-mark both ends of the purlin with the slot that is 47 inches or the 24th slot from the bottom ends of the purlin and 47 inches or the 24th slot from the top of the purlins.

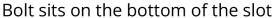
### OR

Center the purlins between the two horizontal beams.

Beam length and location on the beam may vary depending on the solar panels used.



Bolt sits on the top of the slot







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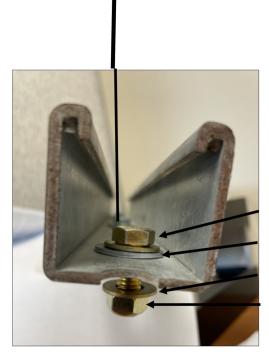
### **Purlin Troughs**

Purlin troughs attach where the purlin meets the beam both top and bottom.

# Purlin Trough (2 per Purlin) Note: there are 3 bolts per purlin trough

### **Pivot Plate to Beam Hardware**

- 1/2" Serrated Bolt
- 1/2" Serrated Nut



### **IMPORTANT:**

### **Purlin to Beam Bolt**

- Bolt (3/8" x 1")
- Washer x 2
- Single Washer
- Nut

### **Solar Module Installation**

### **Top Z-clip Hardware**

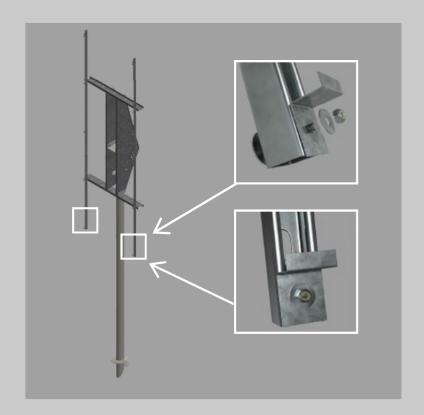
- 3/8" x 1-1/2" short spring stud
- 3/8" flat washer
- 3/8" nyloc nut

Install the bottom (South)
Z-clips to the lower end of the purlins.

The fender washer will be on the bottom of the purlin with the Z-clips at the top.

### **Bottom Z-clip Hardware**

- 3/8" x 2-1/2"" bolt
- 3/8" fender washer
- 3/8" flat washer
- 3/8" nyloc nut



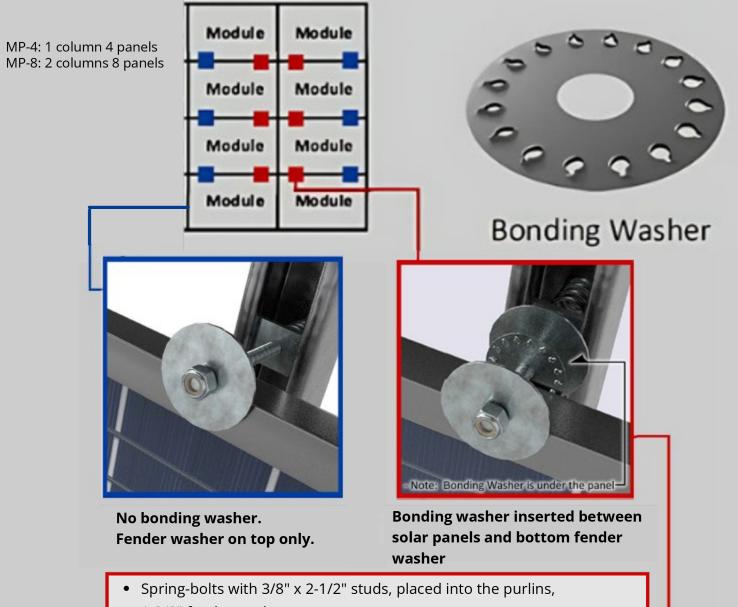
Depending on the solar panel used you may wish to trim excess purlin length on top and or bottom, but excess purlin length may be left as is..





### **Panel Bolting Detail**

Bonding washers may be used if bonding is required. Bonding washer only required on one purlin per column of panels.



- A 3/8" fender washer,
- An AKS bonding washer,
- Two solar modules placed one of either side of the protruding stud,
- A fender washer placed on to the stud,
- A 3/8" Nyloc nut installed and torqued to **12-15lbs.** -ft once solar panels are in position on each side of the fastener.
- **IMPORTANT:** DO NOT OVER-TIGHTEN THE PANEL NUTS. Overtightening may shatter the solar panel.

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### **Solar Module Installation**

### **Spring Clip Installation Note:**

**IMPORTANT!** When installing the solar panels on top of the spring clip bolt, sliding the panels along the spring clip bolt may cause the bolt to turn and unlock from the purlin below.

After installing the washer and nut on the spring clip bolt, <u>check that the length of</u> the bolt is consistent with the others. Pull on the solar panel to be sure the spring <u>clip bolt is locked in place</u>.

The solar panel will lift off if the spring clip bolt is not seated correctly.



If the clip has popped out of the purlin, you will be able to tell as the spring clip bolt will be protruding out further



The clip should remain within the trench of the purlin

## Thank you for your purchase! If you have any questions regarding these instructions, please contact our office

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See our website for installation videos: www.Azgard.com/videos

