

CUTTING EDGE POWER

"Innovative Renewable Energy Solutions"

INSTALLATION GUIDE

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UNIVERSAL SOLAR PANEL MOUNT WITH RAIL KIT



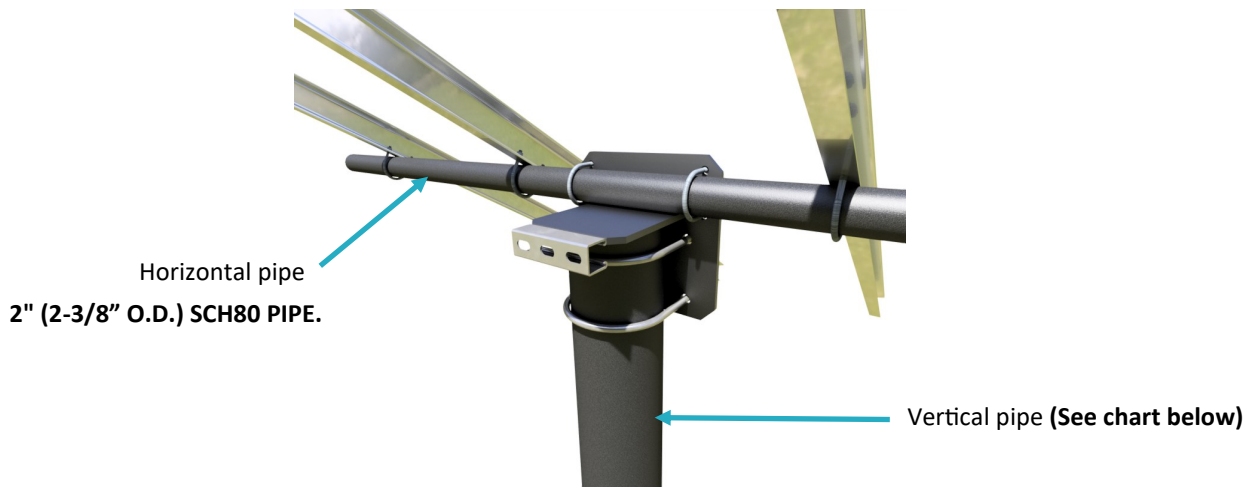
CAUTION
THINK SAFETY FIRST

The warnings, precautions, and instructions discussed in this instruction sheet cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator. **While Cutting Edge Power is proud to be an American company dedicated to producing a high quality product, we are not responsible for any property or personal damage to you or your device(s) due to use/misuse of this product. Always use good judgement and never try to modify or disassemble this product.**

BEFORE INSTALLATION

In order to install this mounting system, it is needed to dig a deep hole in the ground. Therefore, tools to do so will be required. Also, some concrete, gravel or crushed stones will be essential (please, refer to installation part on this manual, to estimate quantities). And finally, it will be required to obtain two pieces of pipe. (Vertical and Horizontal). Available at hardware stores or at cuttingedgepower.com

The vertical pipe must be **SCH 40/80**. The size varies according to each bracket. Please refer to the chart below.



FOR PIPE SIZE	VERTICAL PIPE
2" Pipe	2-3/8" O.D. (SCH 40 / SCH80)
2-1/2" Pipe	2-7/8" O.D. (SCH 40 / SCH80)
3" Pipe	3-1/2" O.D. (SCH 40 / SCH80)
4" Pipe	4-1/2" O.D. (SCH 40 / SCH80)
6" Pipe	6-5/8" O.D. (SCH 40 / SCH80)

INSTALLATION



Concrete tube form

Step 1:

Dig a hole for the vertical pole.

- Hole width: should be at least three times the diameter of the pipe.
- Hole depth: equal to $\frac{1}{3}$ to $\frac{1}{2}$ of the above-ground length of the pole, plus 6".

For loose or sandy soil, use of a concrete tube form is recommended.

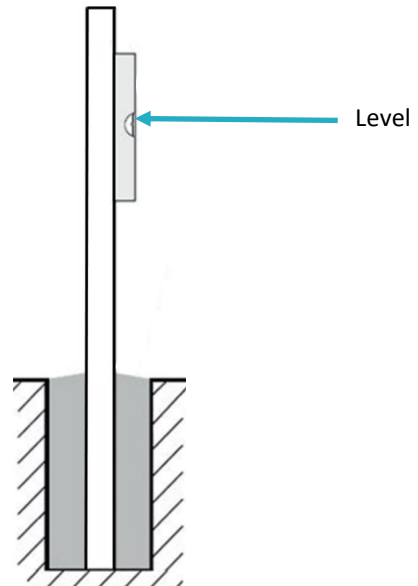
Step 2:

Position the vertical pole in the hole, and while you hold it, pour 6" of gravel or crushed stone into the bottom of the hole. Compact and level the gravel.

Fill the hole with dry concrete up to 3 to 4" below the ground level. Then, add the recommended amount of water.

Ensure your vertical pole is straight.

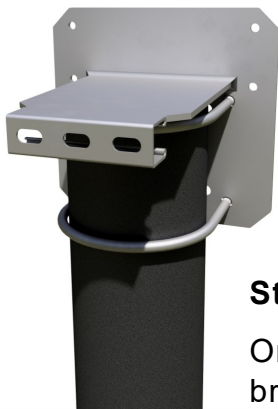
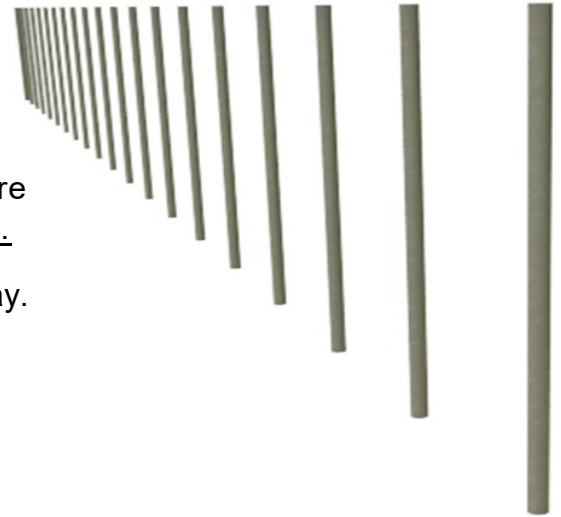
It is recommended to use a vertical pipe above-ground length of only about 4 or 5 feet so the solar panels are easily accessible.



Step 3:

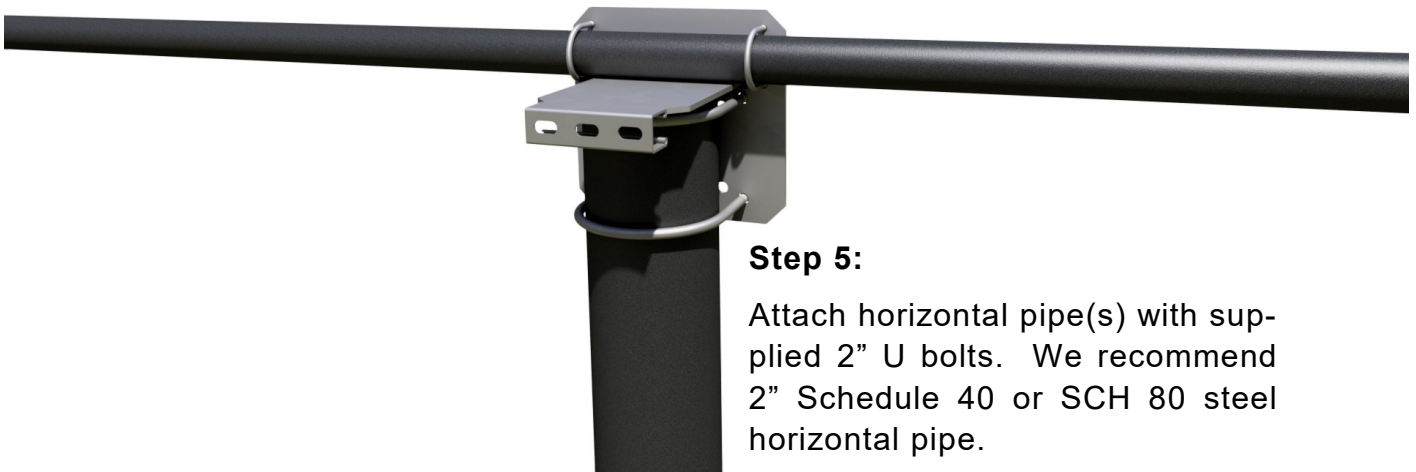
If your system has more than one vertical pipe: ensure all pipes are lined up in a straight line. This is critical.

Let your concrete dry over a day.



Step 4:

Once concrete is dry, place supplied solar panel bracket(s) on vertical pole, and secure it with U bolts.



Step 5:

Attach horizontal pipe(s) with supplied 2" U bolts. We recommend 2" Schedule 40 or SCH 80 steel horizontal pipe.



Step 6:

Attach rails with supplied 2" pipe straps.

Step 7:

Use supplied hardware to attach solar panel(s)

At this time, if the angle of the solar panels needs to be adjusted, it's recommended that you loosen the pipe straps VERY slightly to rotate the panel. Take time to make small adjustments as larger adjustments could result in damage to your solar panels.



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