

LADDER BRACKET INSTALLATION INSTRUCTIONS

This Bracket Kit Includes:

- 2 mast clamps - male with 2½" pintle bolt and male with 3" pintle bolt
- 2 ladder rail clamps – female (receiver)
- 2 clear bushings for ladder rail clamps (dampens vibrations)
- 4 carriage bolts w/ 4 flanged, nylon-insert locking nuts **
- 2 rubber washers (stops any bracket rotation from wind pressure)
- 1 hex nut for the lower male pintle bolt (locks bracket into position)



Tools Needed: 9/16" wrench ** (required to turn locking nuts)

The clamps with the male pintle bolts go on the mast pipe. The female clamps go on your RV ladder.

The **Mast** is a standard Schedule 40 1" inside-diameter galvanized steel threaded pipe that can be purchased at any hardware or home improvement store for less than \$20. Suggested length is 36".
(For aesthetics, you may want to spray paint the pipe first.)

STEP 1 – ATTACH MAST CLAMPS

Slide each male clamp with bolt and nut onto the mast. They should be about 10-11" apart with the longer pintle bolt clamp around the lower threads of the mast. Turn nuts only until snug allowing for adjustment.

STEP 2 – ATTACH LADDER CLAMPS

Put a clear bushing below the topmost ladder step. Slide a female clamp over the bushing. Put carriage bolt through the clamp and screw on nut until snug (do not tighten yet).

Repeat for the other female clamp a few inches below the top curve of the ladder (10-11" above first clamp)

STEP 3 – ALIGNMENT OF CLAMPS

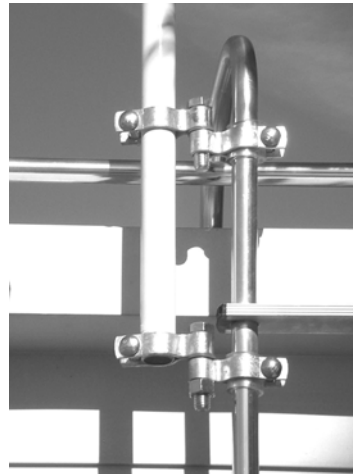
Put a red rubber washer on each pintle bolt.

Place the long male pintle (attached to bottom of mast) into the lower female clamp (attached below the step). Now, slide the upper male clamp until it can fit into the upper female clamp. You should now have the mast clamps loosely fitting into the ladder clamps.

STEP 4 – ADJUST AND TIGHTEN

Make sure that the mast is vertical to your rig. Make sure that all the clamps are horizontal from the mast and ladder rail. Now you can tighten the nuts on the clamps and while doing so adjust them. Do not fully tighten the top mast clamp until **YOU ARE SURE** it is in the right position.

Note: A large hex nut is provided so you can lock in the position of the mast and bracket. You can do this by hand. It does not take much pressure to snug it down and you may not need it at all.



Once the brackets are in place, you can quickly put up the wind generator and mast (with wires already threaded through the mast and quick-disconnector extending out the bottom).
Connect to the wires leading to your battery and enjoy the free energy!

CAUTION: DO NOT DRIVE YOUR VEHICLE WITH THE WIND GENERATOR UP