Attic Breeze
Solar Powered Ventilation

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Universal Mounting Bracket Guide

The Universal Mounting Bracket is designed for use with *Attic Breeze* solar powered ventilation products featuring a remotely mounted solar panel. This bracket will allow the solar panel to be mounted on a flat roof, sloped roof, vertical wall, or on a pole.

Getting Started

Begin by attaching the panel bracket to the solar panel as shown in Figure 1. Secure the bracket to the middle of the solar panel using the 1/4 inch hardware included with the bracket kit. Please note that some solar panel modules will not span the entire length of the bracket.

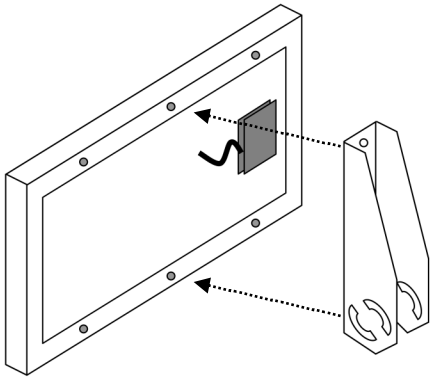

Figure 1 - panel bracket

Next, attach the Universal Mounting Bracket base to the panel bracket assembly. Use the 5/16 inch hardware to attach the brackets as shown below in Figure 2. Do not tighten the brackets together until after the bracket assembly is mounted.

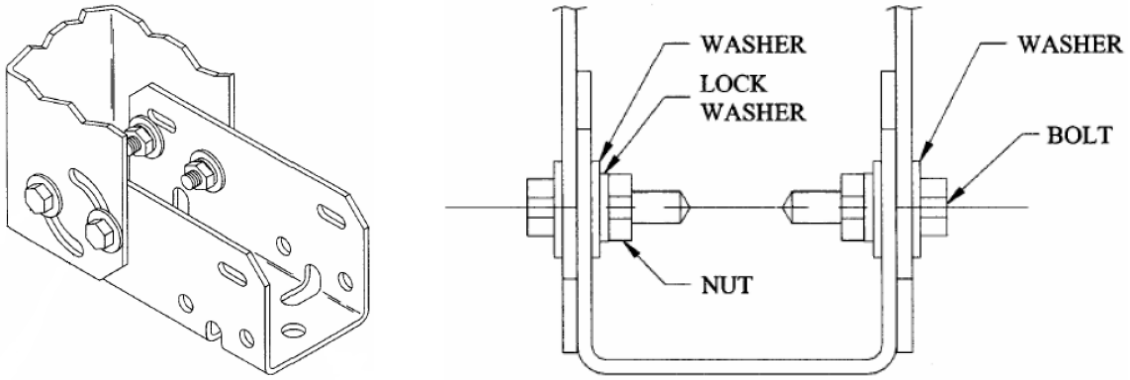

Figure 2 - attaching the panel and base brackets

Mounting Angle & Orientation

For optimum solar panel performance, the Universal Mounting Bracket should be installed to allow the solar panel to face due south. The optimum angle of inclination will depend on your specific location. However, as a general rule the solar panel should be inclined to the same angle in degrees as your latitude coordinates. For most locations in North America, the optimum tilt angle will typically be between 45-60 degrees from horizontal.

Roof/Wall Mounting

The Universal Mounting Bracket can be mounted to your structure in a variety of ways depending on your specific project needs. When mounting to a flat roof, sloped roof, or vertical wall, either retaining bolts or lag screws (not included in kit) should be used to secure the bracket to the structure (see Figures 3 & 4 below). Make sure to weatherproof any penetrations to the structure by applying a silicone or urethane sealant to the lag screws or bolts both during and after installation. Once the bracket is secured to the structure or roof, adjust the solar panel to the desired angle and tighten the bracket assembly bolts.

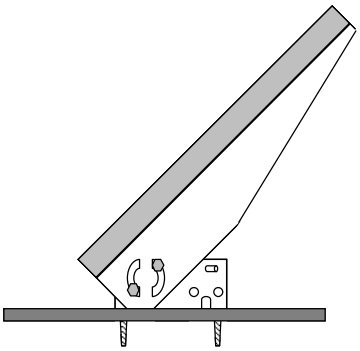

Figure 3 - roof mount

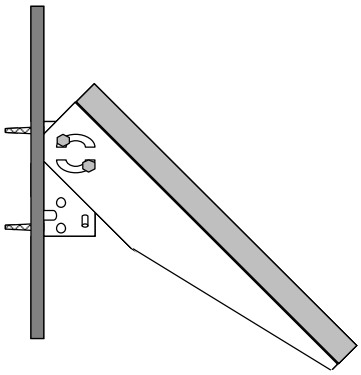

Figure 4 - wall mount

Pole Mounting

The bracket may be pole mounted by using either U-bolt clamps or hose clamps as shown to the right in Figure 5. With U-bolts, the bracket is designed to accept a pole size ranging from 1 to 4 inches in diameter (see Figure 6). Using hose clamps allows the bracket to accommodate a pole diameter range from 2½ to 12 inches (see Figure 7). Once the bracket has been secured to the pole, adjust the solar panel to the desired angle and tighten the bracket assembly bolts.

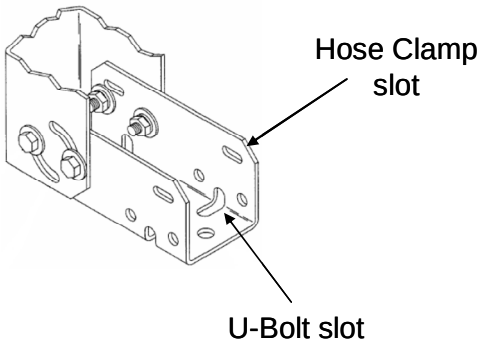

Figure 5 - pole mounting slots

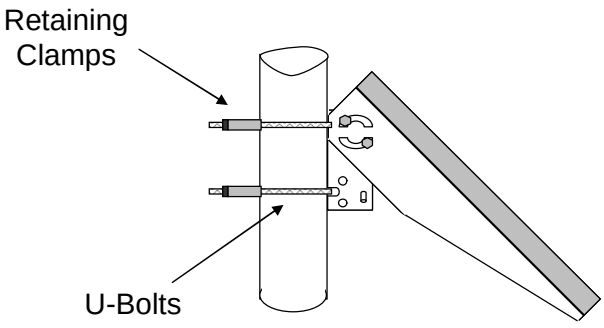

Figure 6 - U-bolt mounting

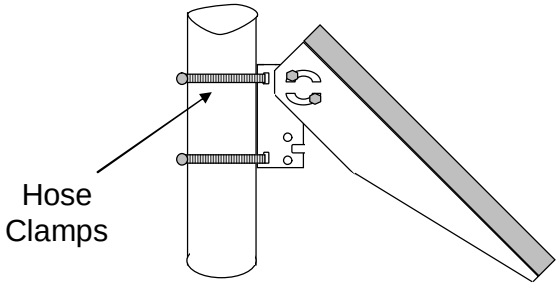

Figure 7 - hose clamp mounting

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