



## Solar Powered Ventilation

4582 Kingwood Drive  
Suite E-154  
Kingwood, Texas 77345  
877-288-4234  
[www.atticbreeze.net](http://www.atticbreeze.net)

### Pivot Bracket Installation Guide

The Pivot Bracket is designed for use with *Attic Breeze* solar powered ventilation products featuring a unit attached solar panel. This bracket will allow the solar panel to be tilted in any of four directions at an angle of up to 45 degrees from horizontal.

#### Getting Started

Begin by removing the solar panel from the solar attic fan unit. To remove the solar panel, simply remove the four wing nuts which retain the solar panel in place. These wing nuts can be accessed from the under side of the vent housing cover. Please note that pliers may be required to loosen the wing nuts as they are tightly secured during manufacturing.

When all four wing nuts are removed, lift the solar panel off the vent housing cover and unplug the power cord from the panel. Next, lay the solar panel on a flat surface for bracket assembly. If the solar panel is painted, make sure to protect the painted finish while working on the panel.

#### Bracket Assembly

Remove the four rubber bonded washers from the solar panel attachment bolts. Next, using a 7/16 inch nut driver and wrench, remove all four 1/4 inch hex nuts from the attachment bolts. Leave the attachment bolts in place. Place the Pivot Bracket over the solar panel in the desired mounting direction and line up the bracket panel holes with the solar panel attachment bolts (see Figure 1).

Next, slide the solar panel attachment bolt up through the bracket panel mounting hole and secure in place with a lock washer and hex nut. Do the same for the remaining attachment bolts. Adjust the brackets on the solar panel as needed and tightly secure all attachment bolts using the 7/16 inch nut driver.

With the pivot brackets securely fastened to the solar panel, insert a bolt and flat washer into the four Pivot Bracket unit mounting holes, with the bolts facing outward. Secure the bolts in place by sliding a rubber bonded washer (rubber side facing out) on each of the mounting bolts.

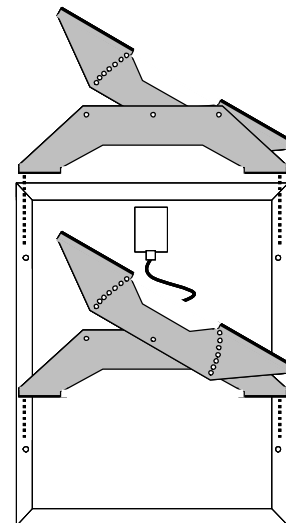


Figure 1 - bracket assembly

## Mounting the Bracket

Pick up the entire solar panel bracket assembly and mount the assembly on the attic fan vent housing. The bracket assembly mounting bolts should line up with the mounting holes on the vent housing. Allow the Pivot Bracket to completely tilt to one side.

Next, secure the mounting bolts to the vent housing using a fender washer, lock washer and wing nut assembly. Holding the fender washer, lock washer, and wing nut in place on the mounting bolt from the underside of the vent housing cover, use the 7/16 inch nut driver to securely tighten the mounting bolt in place. Do the same for the remaining mounting bolts, moving the solar panel as needed to access the bolts.

## Adjusting the Solar Panel

With the solar panel bracket assembly securely fastened to the vent housing, tilt the solar panel to the desired direction and angle. Insert a bolt with flat washer through the overlapping bracket holes to secure the Pivot Bracket at the desired angle. Attach a lock washer and nut to the bolt and tighten in place using the 7/16 inch nut driver. Do the same for the opposite bracket.

## Mounting Angle & Orientation

For optimum performance, the solar panel on your solar attic fan 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.



[www.atticbreeze.net](http://www.atticbreeze.net)

Copyright © 2009 Attic Breeze, LLC. All rights reserved.