

Pivot Bracket Installation Guide

Thank you for purchasing your new adjustable pivot bracket from *Attic Breeze*. Our custom solar panel mounting brackets have been carefully designed to provide easy installation with minimal tools or experience required. Before beginning, please completely review this guide and the tools required for installation.

Application

This guide applies to installation of the Attic Breeze Pivot Bracket on solar attic fans which feature a unit mounted solar panel. The pivot bracket is designed to allow the solar panel to be tilted in any of four directions at an angle of up to 45 degrees from horizontal for optimum sun exposure.

Parts & Equipment

The following parts and equipment are included for your installation:

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| (1) <i>Attic Breeze</i> Pivot Bracket with pre-assembled stainless steel bracket arms | (4) ¼" stainless steel fender washers |
| (6) ¼" stainless steel hex head bolts | (6) ¼" stainless steel flat washers |
| (6) ¼" stainless steel lock washers | (2) ¼" stainless steel hex nuts |
| | (4) ¼" stainless steel neoprene bonded washers |

What's Needed

- cordless drill with nut driver attachments
- 7/16" socket and wrench

Getting Started

Begin by removing the solar panel from the fan unit. There are four wing nuts which retain the solar panel in place. These wing nuts can be accessed from the under side of the fan housing cover.

NOTE: All hardware on your fan unit has been tightly secured during manufacturing. It may be necessary to use pliers to help loosen the retention wing nuts in order to remove the solar panel.

After removing the wing nuts, lift the solar panel off the vent housing cover and unplug the power cord from the solar panel. Lay the solar panel on a flat surface where the bracket can be assembled.

NOTE: If the edges of solar panel are painted, make sure to protect the painted finish while assembling the pivot bracket.

Next, remove the four rubber bonded washers from the solar panel attachment bolts. These washers may be discarded after removal. Using a 7/16" socket and wrench, remove the four hex nuts from the solar panel attachment bolts. Leave the attachment bolts in place for use in the next step.

Bracket Orientation

The orientation of your pivot bracket on the solar panel will depend on the direction your fan will be facing in the location where the unit will be installed. The bracket may be mounted either across the solar panel (for fan units facing in an east-west direction) or inline with the panel's frame (for fan units facing north). Choose the best orientation of the pivot bracket based on your specific needs.

Bracket Assembly

Line up the mounting holes on the pivot bracket arms with the solar panel attachment bolts as shown in Figure 1.

NOTE: The bracket arm side with the multiple adjustment holes should face away from solar panel.

Slide the solar panel attachment bolt up through the bracket mounting hole and hand tighten with a flat washer and hex nut. Do the same for the remaining solar panel attachment bolts. Adjust the brackets on the solar panel as needed and tightly secure all attachment bolts using the 7/16" socket and nut driver.

Next, insert a 1/4" hex head bolt with a lock washer through the pivot bracket mounting hole opposite of the solar panel attachment mount. The bolt threads should be facing outward, away from the solar panel. Secure the bolt and lock washer to the pivot bracket by sliding a 1/4" neoprene bonded washer (rubber side facing away from solar panel) onto the exposed threads of the bolt. Repeat for the remaining three mounting holes.

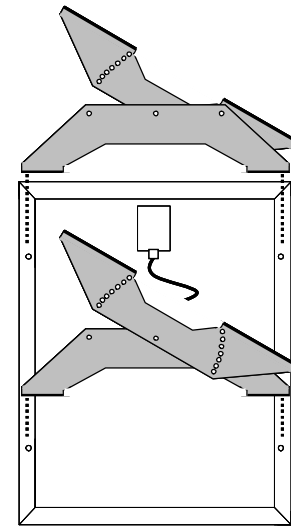


Figure 1 - Bracket Assembly

Mounting the Bracket

Pick up the entire solar panel bracket assembly and mount the assembly onto the fan unit. The bracket assembly mounting bolts should line up with the original solar panel mounting holes on the fan. Placing a 1/4" fender washer and wing nut onto the bracket mounting bolt, tightly secure the bracket assembly to the fan unit using the 7/16" socket and nut driver. Repeat for the remaining three mounting bolts

NOTE: For ease of installation, hold the fender washer and wing nut in place on the mounting bolt from the underside of the fan unit cover with one hand. With your other hand, use the 7/16" socket and nut driver to tighten the mounting bolt from the top.

Adjusting the Solar Panel

With the solar panel bracket assembly securely fastened to the fan, tilt the solar panel to the desired direction and angle (see below for additional information). Lock each pivot bracket arm in place by inserting a 1/4" hex head bolt with flat washer through the overlapping bracket adjustment holes and secure the bolt with a 1/4" lock washer and hex nut. Using the 7/16" socket and nut driver, tighten all of the pivot bracket nuts. Reconnect the power cord to the solar panel upon completion of installation.

Mounting Angle & Orientation

For optimum performance throughout North America, the solar panel on your fan unit should always be installed facing toward the south if possible. This will give the solar panel the best average sun exposure throughout the day (see Figure 2).

Determining the optimum angle of inclination will depend on your specific location. As a general rule, the solar panel should be tilted to the same angle in degrees as your latitude coordinates (roughly 35-45 degrees from horizontal) minus about 15 degrees. Using this approximate angle of inclination will allow your solar panel to receive optimum sun exposure during the summer months for maximum seasonal performance.

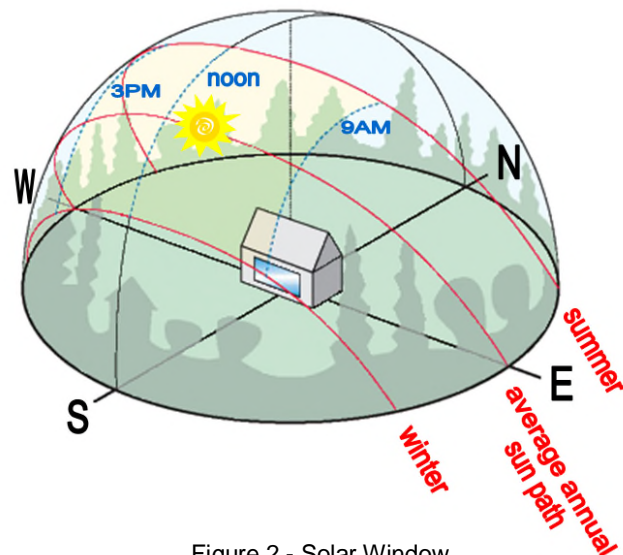


Figure 2 - Solar Window