

## Standard Bracket Installation Guide

Thank you for purchasing from *Attic Breeze*. Your new solar attic fan features a remote mounted solar panel and our standard mounting bracket kit, 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 Standard Bracket for use with solar attic fans which feature a remote mounted solar panel. The standard bracket is designed for pitched roof installations where the roof facing has both optimum sun exposure and is facing in a southern direction.

### Parts & Equipment

The following parts and equipment are included for your installation:

- |   |                                     |
|---|-------------------------------------|
| (4) <i>Attic Breeze</i> Standard Brackets | (4) ¼" stainless steel flat washers |
| (4) ¼" stainless steel hex head bolts     | (4) ¼" stainless steel hex nuts     |
|   | (4) ¼" stainless steel lock washers |

### What's Needed

- cordless drill with nut driver attachments
- 7/16" socket and wrench
- lag screws or retaining bolts
- roofing-grade weatherproof sealant

### Getting Started

Choose a location on your roof to install the solar panel that will offer optimum sun exposure throughout the day. For best results, pick an area that is oriented in a southern direction and is not shaded or otherwise blocked from the sun for extended periods. If an installation location on the southern side of your roof is not available, please consult your *Attic Breeze* dealer for additional solar panel mounting options.

### Bracket Assembly

Place the solar panel face down 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 standard bracket.

Insert a ¼" hex head bolt with a flat washer through one of the standard brackets and hand tighten to the solar panel with a lock washer and hex nut as shown in Figure 1. Using the outside corner mounting holes on the solar panel, do the same for the remaining mounting brackets. Adjust the brackets on the solar panel as needed and tightly secure all attachment bolts using the 7/16" socket and wrench.

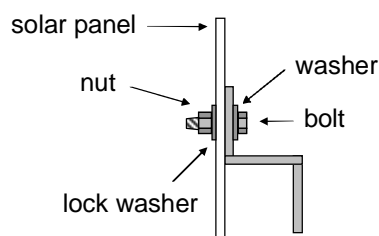
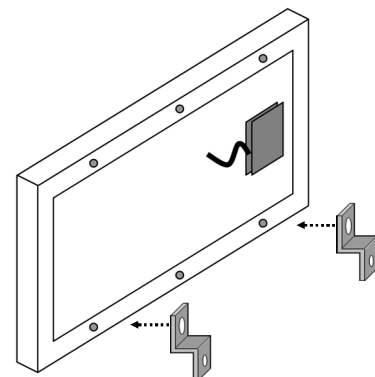


Figure 1 - Bracket Assembly



## Mounting the Bracket

Pick up the entire solar panel bracket assembly and place the assembly onto the roof location where you wish to mount the solar panel. Connect the solar panel power plug to the remote power cable. If the remote power cable is not long enough to reach the location where you wish to mount your solar panel, please consult your *Attic Breeze* dealer for additional power cable options.

**NOTE:** If your remote power cable has been routed through a hole in the roof decking underneath the solar panel mounting location, make sure to secure the remote power cable so that it cannot move and weatherproof the roof penetration with roofing-grade weatherproof sealant.

Depending on your roof type and the building code requirements in your area, use the appropriate lag screws or retaining bolts to securely fasten the solar panel mounting brackets to the roof. Apply the roofing-grade weatherproof sealant to all the mounting screws or retaining bolts.

## Mounting Angle & Orientation

For optimum performance throughout North America, the solar panel included with 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. If your roof slope is the same as this approximate angle of inclination, your solar panel will receive optimum sun exposure during the summer months giving maximum seasonal performance.

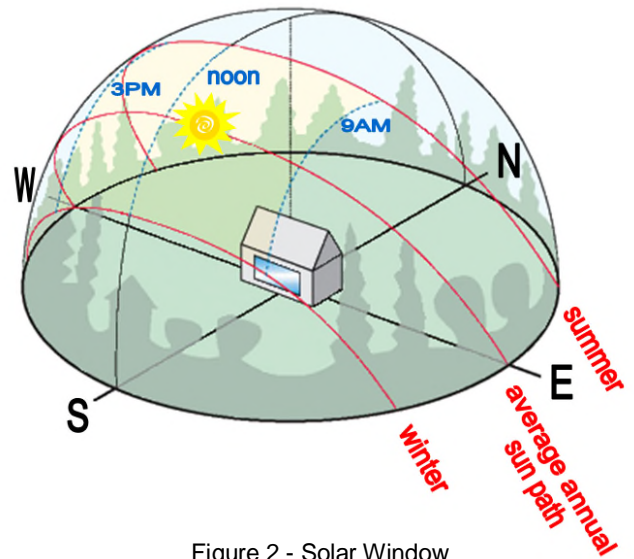


Figure 2 - Solar Window

For roof slopes that greatly differ from either the optimum facing (southeast-south-southwest) and/or optimum angle of inclination (more than 30 degrees), consider using an Attic Breeze Universal Bracket to achieve better sun exposure.