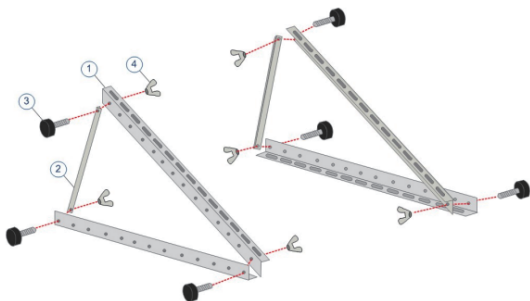


BougeRV



**Adjustable Tilt Solar Mount Bracket
28 inch & 41 inch & 58 inch**

WARRANTY

BougeRV warrants the item to be free of manufacturing flaws for a period of one (18) months.

BougeRV is not responsible for any injuries and/or damages caused as a result of not complying with the specifications stated.

BougeRV provides **1-on-1 Solar Solution.**

If you have any questions during use, please feel free to contact us:



service@bougerv.com



1-669-232-7427



www.bougerv.com



WhatsApp

1-669-232-7427

Item	Description	Picture	Quantity
1A	Aluminum Mounting Rails		4
2B	Aluminum Tilt Angle Bracket		2
3C	Steel Knob Bolt		6
4D	Steel Wing Nut		6
5E	Steel Flange Nut		4
6F	Steel Split Lock Washer		4
7G	Steel Flat Washer		4
8H	Steel Hex Bolt		4
9I	Steel Self-tapping Screws		6
10J	Plastic Retaining Ring		6

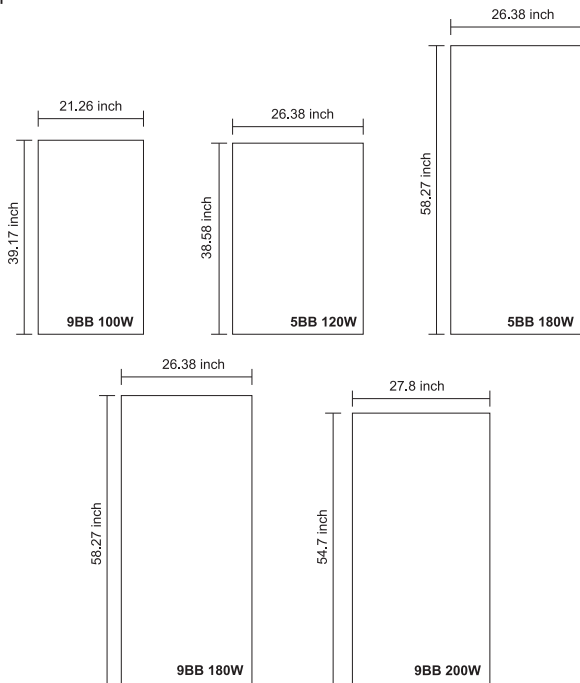
The BougeRV Adjustable Tilt Mount Bracket is the perfect solution to mount a solar panel to the roof of your Recreational Vehicle (RV) or any other flat surface, allowing the tilt angle of the solar panel to be adjusted for optimum performance.

Mounting your solar panel inclined to an optimized angle with respect to the horizontal axis can lead to an increased annual collection of sunlight. Depending on the location and time of the year, this could lead to up to 50% more solar energy collection compared to horizontally mounted panels. Typically, for optimal annual performance, the solar panel should be tilted at an angle equal to 0.9 times the latitude of the location with respect to the horizontal.

For optimal summer performance, the solar panel should be tilted to an angle equal to latitude -15 degrees and optimal winter performance the solar panel should be tilted to an angle equal to latitude $+15$ degrees with respect to the horizontal.

NOTE

The above three brackets are suitable for all BougeRV solar panels.



CAUTION:

When solar panels are placed in light sources, they produce electrical energy and a voltage will appear on the output terminals. To avoid a shock hazard, keep the panel covered with a dark material during installation and avoid contact with the output terminals.

NOTE:

Stainless Steel can be subject to a process called “thread galling” in which bolts can twist off and/or the bolt threads seize to the nut’s thread. Apply anti-galling lubricant available at most hardware or auto-parts stores to all the stainless steel fasteners before installation. If anti-galling lubricant is not available, any standard lubricant will minimize the occurrence of “thread galling”.

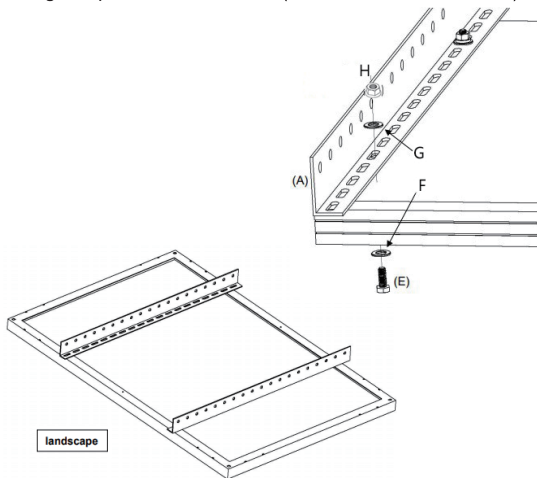
Pre-installation

Determine the mounting location of the solar panel on the RV roof or flat surface that is clear of any obstructions and will have sufficient space to access the panel for servicing should it be required. Ideally, the panels will be positioned to minimize the wiring distance between the solar panel and the charge controller.

Make sure the mounting surface is strong enough to handle the weight bearing load of the solar panels. If the panels will be mounted on a roof, make sure the material is strong enough to provide support to the solar panel including wind loading. To minimize wind loading effects in an RV or mobile application, place the panel’s longest edge parallel with the direction of wind travel.

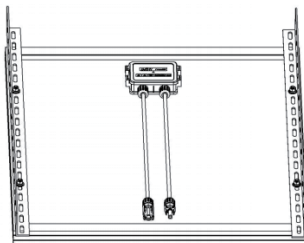
INSTALLATION

1. Secure the solar panel to two of the Mounting Rails (Item 1A) using the provided hardware (Items 5E, 6F, 7F and 8H)

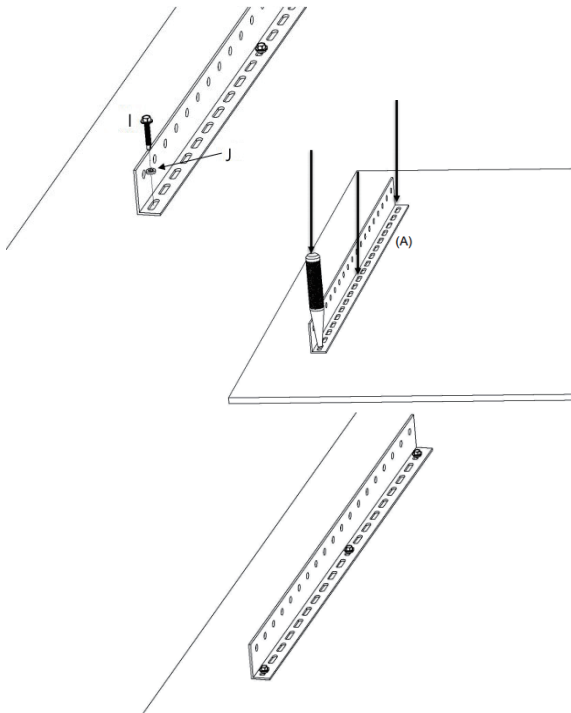


OR

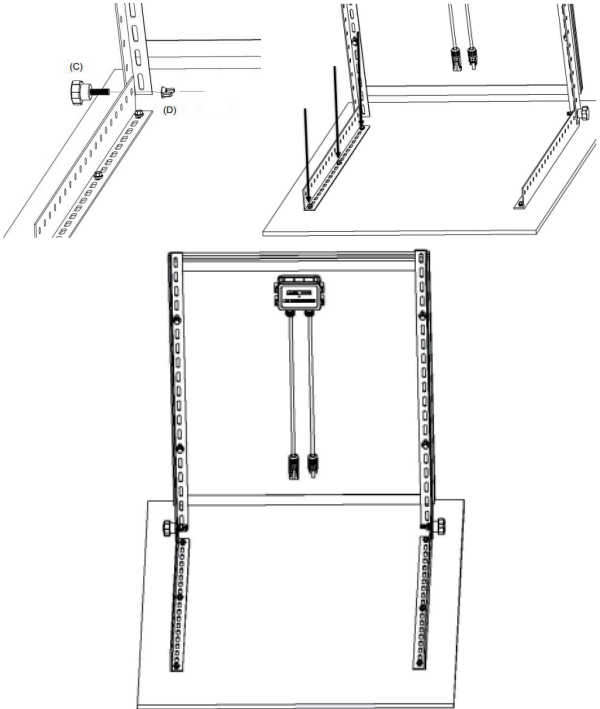
Portrait



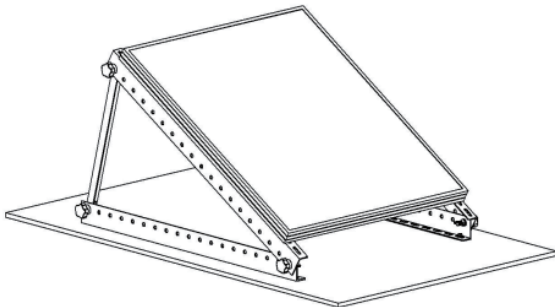
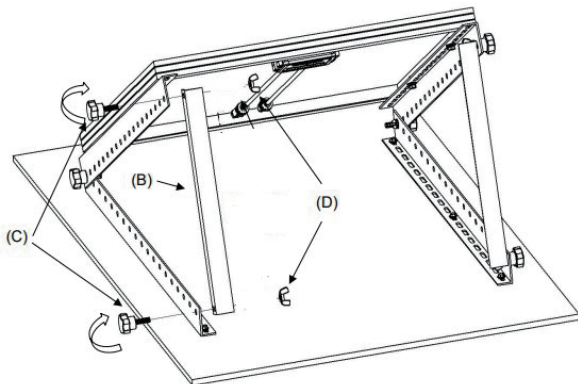
2. Secure the other 2 Mounting Rails (Item 1A) to the roof of your RV or any other permanent mounting surface with self-tapping screws (Item 9I 10J)



3. Attach the two Mounting Rails (Item 1A) to the first pair of mounting rails at one end using the Knob Bolt (Item 3C) and Wing Nut (Item 4D), so that the assembly pivots at one end.



4. Set the tilt angle by securing the Tilt Angle Brackets (Item 2B) to the free ends of the mounting rail pairs using the remaining Knob Bolts (Item 3C) and Wing Nuts (Item 4D).



For Northern Hemisphere installations, the solar panels should be mounted at angle facing true south (true north for Southern Hemisphere installations). The recommended mounting angle should be equal to the latitude location of where you are installing the solar panels. For example, the latitude of Miami, Florida, USA is 25 degrees. Therefore, solar panels installed in this area should ideally be facing true south at a tilt angle of 25 degrees.

Due to design constraints in many installations, you will not be able to mount the solar panel facing true south at the ideal tilt angle. In these cases, try to come as close as possible to the ideal mounting configuration as this will maximize the power output from the solar panels. Different Tilt-angles are possible by using different hole combinations.

STORAGE /TRAVEL POSITION

The Solar Panels must be mounted in the tilted position only when stationary. For RV or boat applications, when in motion, the mounting hardware should be in the flat mount position as shown below.



1. Remove the two Knob Bolts (Item 3) and Wing Nuts (Item 4) that secure the Tilt Angle Bracket (Item 2).
2. Lower the Mounting Rails and the Tilt Angle Brackets so that the square holes of each set of the mounting rails and brackets align with each other and the solar panel is flat.
3. Reconnect the two Knob Bolts (Item 3) and Wing Nuts (Item 4) to secure the structure in the flat position.

