

# RV Solar Connection Dual Tilt RV Mounts

[RVSolarConnection.com/mounts.htm](http://RVSolarConnection.com/mounts.htm)

## Converting RVSC Dual Tilt Mount to Exposed Hardware Configuration

Converting your dual tilt mounts to exposed hardware configuration is easy and only takes a few minutes.

- Medium mounts are shipped fully assembled in concealed hardware configuration.
- Large mounts are shipped partially assembled in concealed hardware configuration.

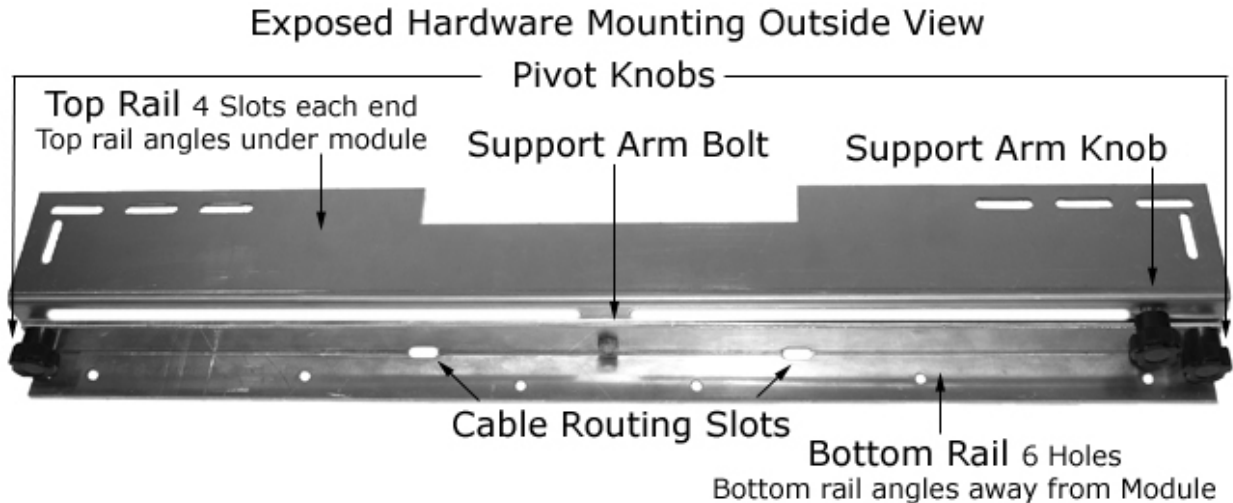
Converting the RVSC dual tilt mounts to exposed hardware configuration is the easiest method for installing solar modules to the roof of your RV. Roof fasteners sealant and half of the lower rail is exposed when mounting with the method.

Installing your modules in concealed hardware configuration is a bit more time consuming but yields a very clean looking installation as all hardware, roof fasteners and sealant is under the solar module.

### Required tools:

- 2 - 7/16" box end wrenches
- Thread locker such as Loctite® or similar product

**Follow this procedure for converting both the RVSC large and medium mounts to exposed hardware configuration.** *Large dual tilt mount pictured below*



**Step 1:** Remove mounts from packaging.

**Step 2:** Remove both of the Pivot Knobs and the Support Arm Knob if installed.

**Step 3:** Remove the lock nut and flat washer from the support arm bolt. Remove the support arm, remove the flat washer and hex nut from the support arm bolt.

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**Step 4:** Remove the Support Arm Bolt from the lower rail (Part B). Support arm bolt is threaded into lower rail.

**Step 5:** Turn the lower rail around (Part B) with the six holes facing away from you and facing downward. See Figure 1 below



Figure 1 Part B

**Step 6:** Re-install the Support Arm Bolt into the lower rail (Part B) as pictured above.

**Step 7:** Re-install the hex head nut and apply a drop of thread locker on the bolt where the hex head nut will seat against the lower rail. Re-install one of the flat washers.

**Step 8:** Slide the Support Arm over the Support Arm Bolt. The pim nut should be near the end of the lower rail (Part B) with the raised end of the pim nut facing away from lower rail as shown in figure A.

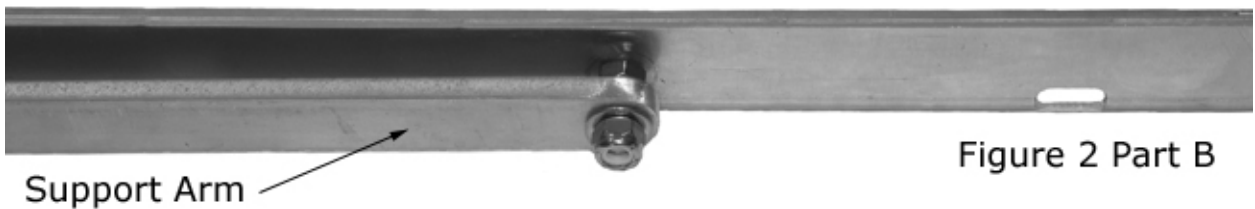


Figure 2 Part B

**Step 9:** Re-install the last flat washer and tighten the lock nut so the support arm rotates freely with minimal friction. The lower rail should now look like Figure A.



Figure A

**Step 10:** Turn the lower rail (Part B) around so that the support arm faces away from you and the 6 holes in the lower rail faces you. Center the upper rail (Part A) over the lower rail (Part B) as pictured below.

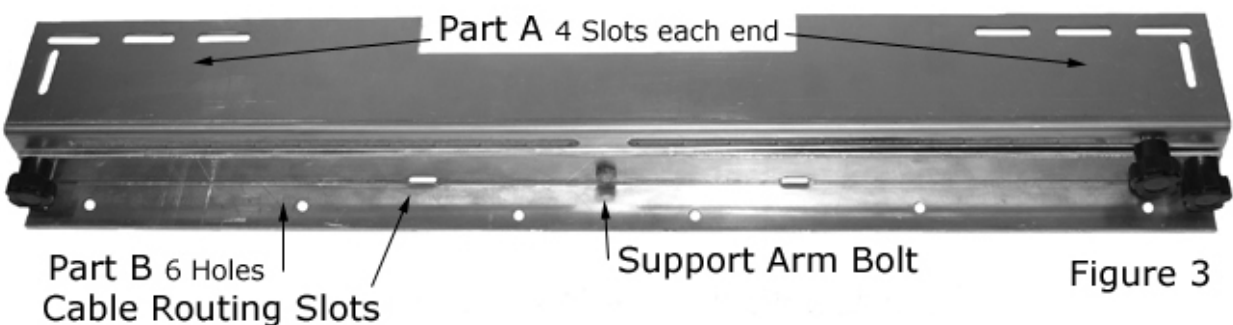


Figure 3

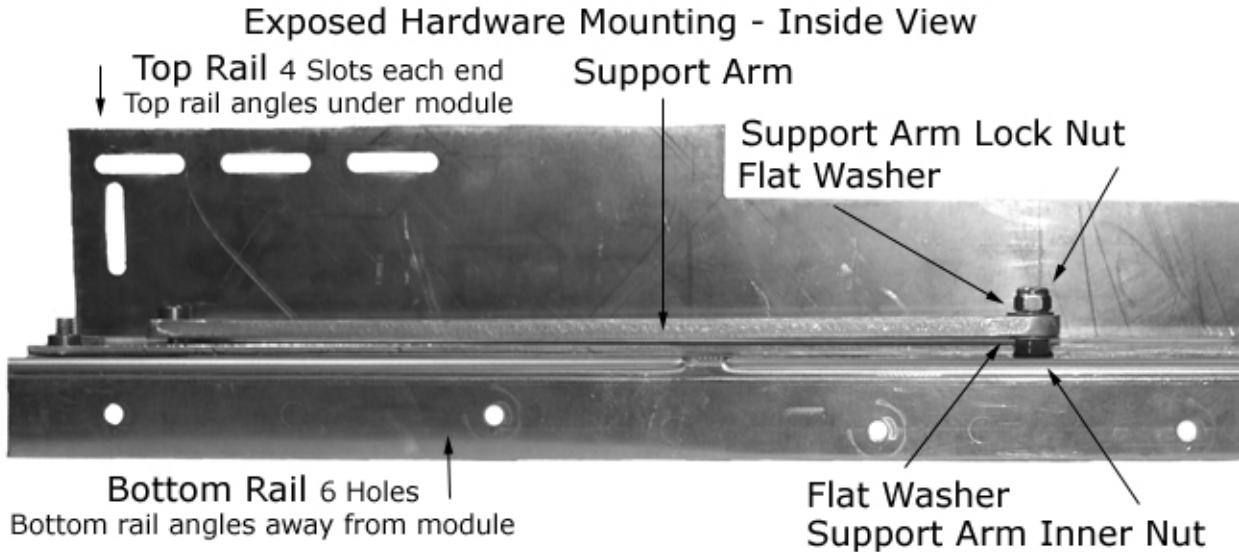
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**Step 11:** Re-install both Pivot Knobs.

**Step 12:** Raise the Support arm even with the long slot and install the Support Arm Knob. The RVSC Dual Tilt Mount should now look like figure 3.

**Step 13:** Attach mounts to solar modules.



## Note

When converting the RVSC dual tilt mounts align support arms and support arm knobs to the same side of both mounts. Generally the right side of the mount is the best position (as pictured above).

## Operational Tips

1. Occasionally lubricate the top and bottom ends of the support arms.
2. Stow modules to flat position if high winds are in the weather forecast.
3. Stow modules to flat position and tighten all knobs before traveling.
4. If your modules have been in stowed position during the summer months periodically check pivot and support arm knobs to make sure they are tight.



**Pinch Hazard** - When installing and during normal operation of your dual tilt mounts keep hands and fingers clear of end rails when raising or lowering the photovoltaic modules. Raise and lower the module from center of the module only.



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