

# Installation Manual

UNI-RV40-MAN 2017 Edition v1.0

For model: UNI-RV40





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Introduction

The Universal RV Mount is an extremely sturdy mounting solution for installing on top of recreational vehicles, sheds or flat surface. It can also be used as a portable device to place in the sun when your unit is in the shade. With its user adjustable angle settings of 0° to 40° the Universal RV Mount can provide better efficiencies than a permanent flat roof install.

Customer Support

Tamarack Solar makes every effort to ensure your mounting kit is easy to install. If you need assistance at any point in your installation or have suggestions on how we can improve your experience, call customer support at 1-800-819-7236 or email us

Tools Required

Tools that support the following size Hex head: Torque values are "dry", add 15% if using anti-seize lubricant on Stainless hardware (Recommended).

1/4" = 84\7 In\Ft Lbs

**Components List** The following parts are for the UNI-RV40 mount model:

| ITEM NO. | PART NUMBER       | DESCRIPTION                                | QTY. |
|----------|-------------------|--|------|
| 1        | 51-04PS-40R REV A | Panel Support Right                        | 1    |
| 2        | 51-04MB-40R REV A | Mount Base Right                           | 1    |
| 3        | 51-04BR-40R REV A | Brace Right                                | 1    |
| 4        | 51-04PS-40L REV A | Panel Support Left                         | 1    |
| 5        | 51-04MB-40L REV A | Mount Base Left                            | 1    |
| 6        | 51-04BR-40L REV A | Brace Left                                 | 1    |
| 7        | 51-0400-017 REV A | Spacer, 3/4 OD for RV mount.               | 4    |
| 8        | 24-2520-444       | Nut, Wing 10-32 Zn                         | 6    |
| 9        | 29-7000-000       | SA Clamp Kit                               | 4    |
| 10       | 27-1962-PIN       | Shoulder-Style Ring-Grip Quick-Release Pin | 2    |

*The left and right panel mounting rails come pre-assembled, the panel mounting clamps come in a bagged kit.*



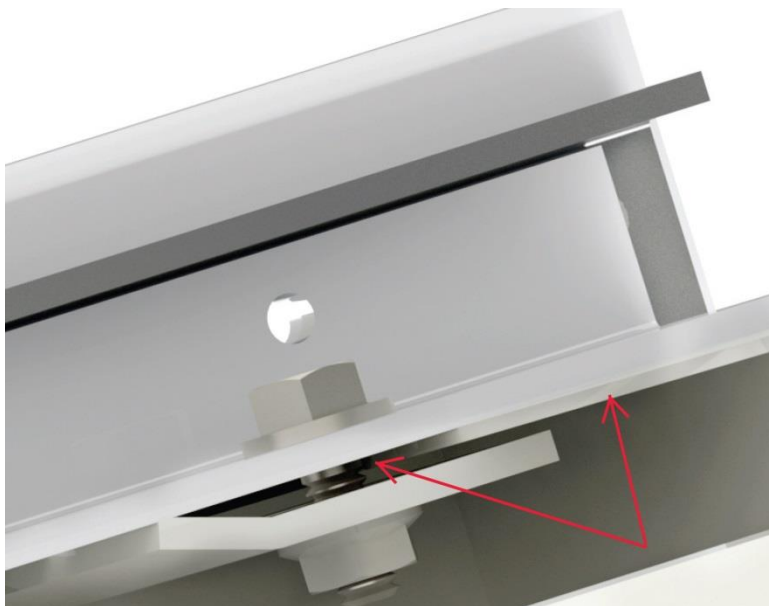
### Step 1: Pre Assembly

- A. Lay the panel down with the frame side up.
- B. Lay the pre-assembled panel supports on each end, across the width of the panel with the slotted face on the panel frame, and centered facing the inside.
- C. Make note which slots you see the panel frame edge inside of.



### Step 2: Final Assembly Attaching clamps to the panel

- A. With the bent ends facing away from the outer ends of the panel supports, loosely assemble the panel clamps in the slots you have noted, at both ends. Slide the panel clamps up under the panel frame so the **bolt makes contact with the edge of the frame.**
- B. Slide the assembly towards the end of the panel so the clamp edge is next to the panel frame

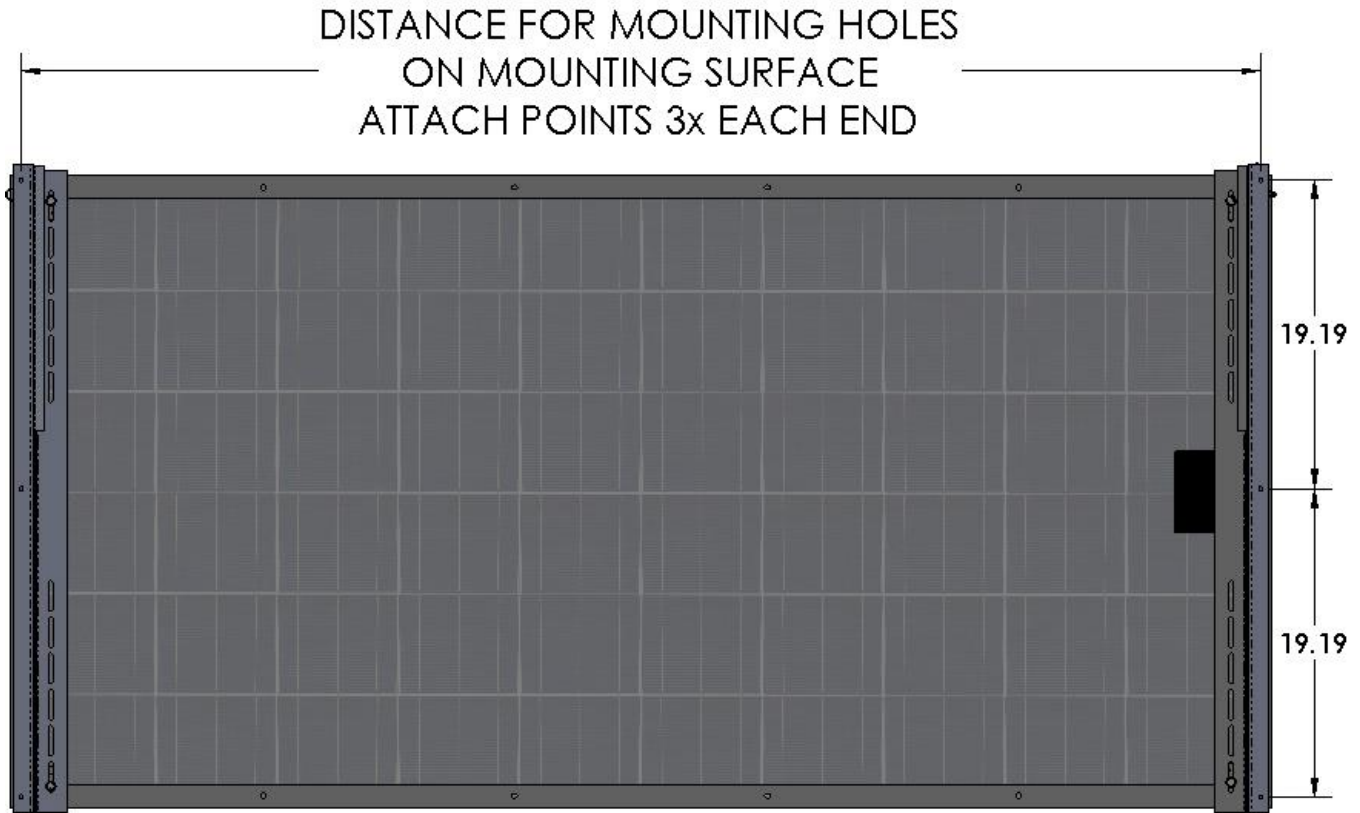


### Step 3: Torque Bolts.

- A. Tighten bolts to 7Ft lbs making sure the bolts remain up against the panel frame edge.

#### Step 4: Preparation to mount to a surface.

- A. Now that the panel support assemblies are attached to the panel, take a measurement between the mounting holes from one side to the other.

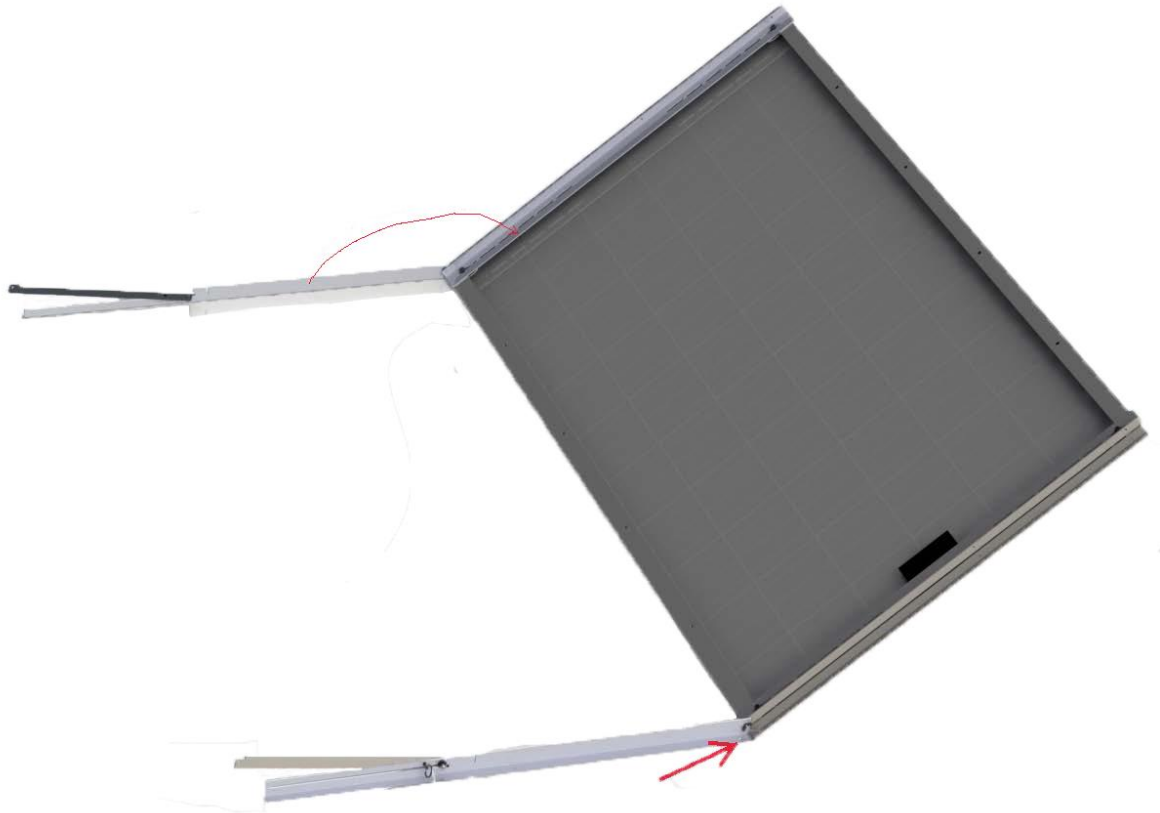


#### Step 5: Attach Panel Supports to any surface

- A. Attach to surface using 1/4"  $\varnothing$  hardware.
- B. You can disassemble the middle support and lay the panel over (see illustration next page) to use a ratchet or power tool to tighten the bolt near the pivot point if needed.
- C. On curved or irregular surfaces, use a standoff at minimal heights to clear irregularities or curvature.

#### Step 6: Safety Pin

Install safety pin when in the flat position for traveling as shown. (See illustration next page)



## Installer Responsibility

The installer is solely responsible for:

- i. Complying with all applicable local or national building codes, including any that may supersede this manual;
- ii. Ensuring that Tamarack Solar and other products are appropriate for the particular installation and the installation environment;
- iii. Using only Tamarack Solar parts and installer-supplied parts as specified by Tamarack Solar. Substitution parts may void the warranty;
- iv. Ensuring safe installation of all electrical aspects of the PV array; and
- v. Ensuring correct and appropriate design parameters are used in determining the design loading used for the specific installation. Parameters, such as snow loading, wind speed, exposure and topographic factor should be confirmed with the local building official or a licensed professional engineer.

## Warranty Information

Tamarack Solar warrants each Mounting Structure to be free from defects in materials and workmanship for ten (10) years from the date of first purchase (“Warranty Period”), when installed properly and used for the purpose for which it is designed, except for the finish, which shall be free from visible peeling, or cracking or chalking under normal atmospheric conditions for a period of three (3) years, from the earlier of 1) the date the installation of the Product is completed, or 2) 30 days after the purchase of the Product by the original Purchaser (“Finish Warranty”). The Finish Warranty does not apply to any foreign residue deposited on the finish.

**Galvanized coated sheet steel components will show rust on cut edges and is normal and will not affect the structure and function of the mount.**

**All installations in corrosive atmospheric conditions are excluded.** The Finish Warranty is VOID if the practices specified by AAMA 609 & 610-02 – “Cleaning and Maintenance for Architecturally Finished Aluminum” ([www.aamanet.org](http://www.aamanet.org)) are not followed by Purchaser for Tamarack Solar’s aluminum based products.

The warranty covers the replacement cost of parts to repair the product to proper working condition. Transportation and incidental costs associated with warranty items are not reimbursable. The warranty does not cover normal wear, or damage resulting from misuse, abuse, improper installation, negligence, or accident, or **typographical errors in instruction manuals**. The Warranty does not cover any defect that has not been reported in writing to Tamarack Solar within ten (10) days after discovery of such defect. Furthermore, it does not cover units that have been altered, modified or repaired without written authorization from the manufacturer or its authorized representative, or units used in a manner or for a purpose other than that specified by the manufacturer. Tamarack Solar’s entire liability and Purchaser exclusive remedy, whether in contract, tort or otherwise, for any claim related to or arising out of breach of the warranty covering the Mounting Structures shall be correction of defects by repair, replacement, or credit, at Tamarack Solar’s discretion. Refurbished Mounting Structures may be used to repair or replace the Mounting Structures

Tamarack Solar shall have no liability for any injuries or damages to persons or property resulting from any cause, whatsoever, or any claims or demands brought against Tamarack Solar by Purchaser, any employee of Purchaser, client of Purchaser, end-user of the Product or other party, even if Tamarack Solar has been advised of the possibility of such claims or demands (collectively, “Third Party Claims”). This limitation applies to all materials provided by Tamarack Solar during and after the Warranty Period.