



# Dura-Fold Portable RV Awning

## Assembly and Installation Instructions



Read the instructions before starting the job. They explain the steps required to produce a finished product that will meet factory specifications.  
All references to “Left” and “Right” are while facing the home.

Check the material received.  
Match your shipment with the Bill of Materials.  
If there is a shortage or wrong material,  
call Dealer Service immediately.

Safety is important!  
Wear Safety Glasses and Work Gloves.  
Follow all safety practices while assembling  
and installing this product.

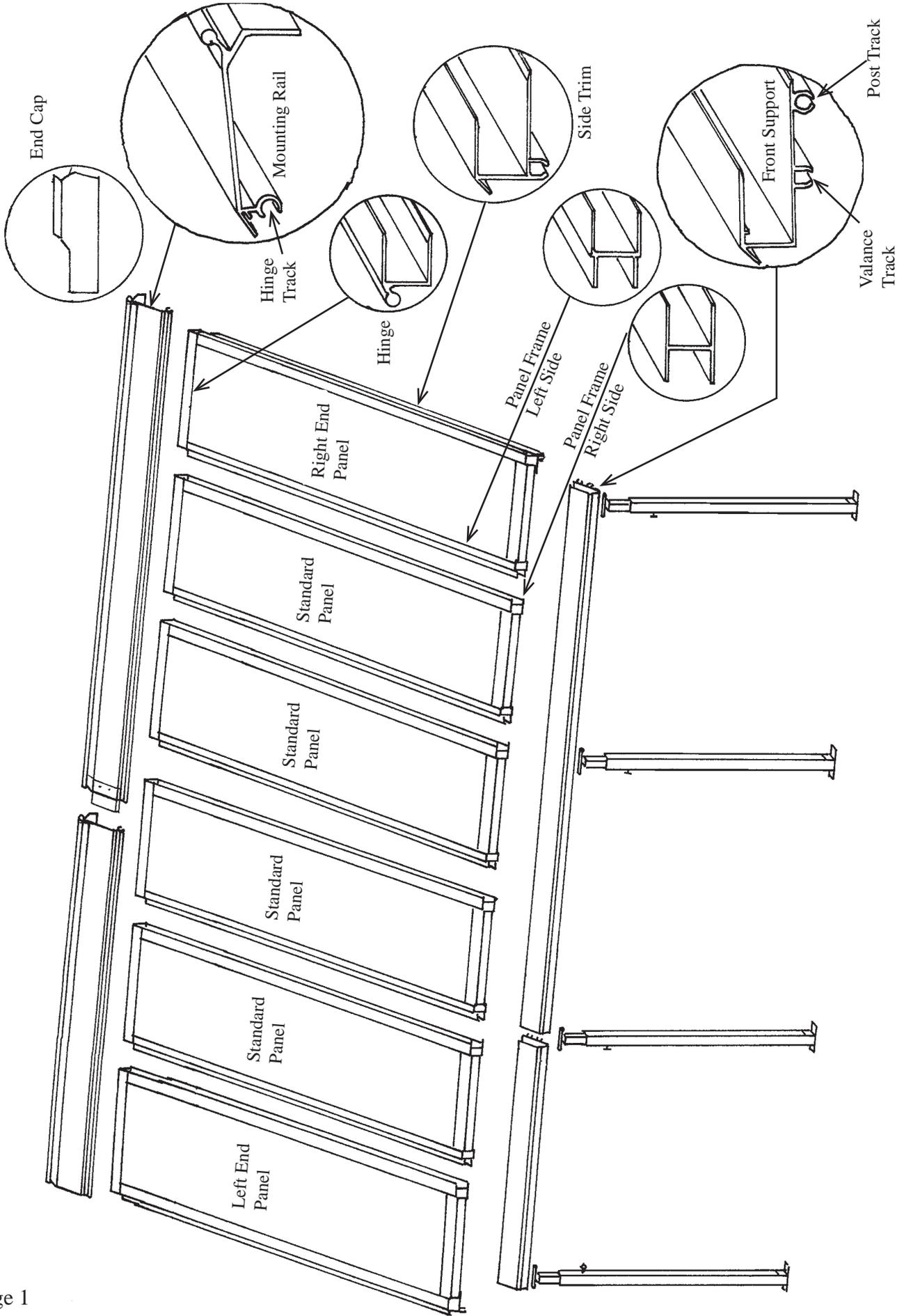
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Dura-Bilt Products, Inc. P.O. Box 188 Wellsburg, N.Y. 14894

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# Dura-Fold Portable RV Awning



## Tools Needed

Screw Gun	Flat Head Screw Driver
Level	7/32" Drill Bit
Tape Measure	1/4" Drill Bit
Lubricant (Furniture Polish)	Marking Instrument
1/4", 5/16" & 3/8" Nut Driver Bits with Magnetic Heads	

## Hardware Provided

- |  |                           |
|--|---------------------------|
| Right & Left Mounting Rail End Cap   | Sealer Tape (Peel & Seal) |
| Lock Down Assembly   |                           |
| Standard Post Anchor Assemblies for Concrete or Wood                                   |                           |
| Optional Post Anchor Assembly for Soil   |                           |
| 4" x 4-1/2" Black Flashing with Paper coated adhesive on one side for each Post Anchor |                           |

<b>Fastener</b>	<b>Description</b>
	1/4"-20 x 2" Aluminum Hex Head Bolt with EPDM Washer and 1/4"-20 Wing Nut
	#12 x 1-1/2" Hex Washer Head Screw
	10-24 x 1/2" Thumb Screw with Wing Nut or Hex Nut
	#12 x 3/4" Self Drilling Screw With EPDM Washer
	Expansion Bolt (Concrete Anchor)
	#14-10 x 2-1/2" Galvanized Hex Washer Head Screw <b>Attaches Anchor Bracket to Wooden Deck. (Full Embedment Required!!!)</b>

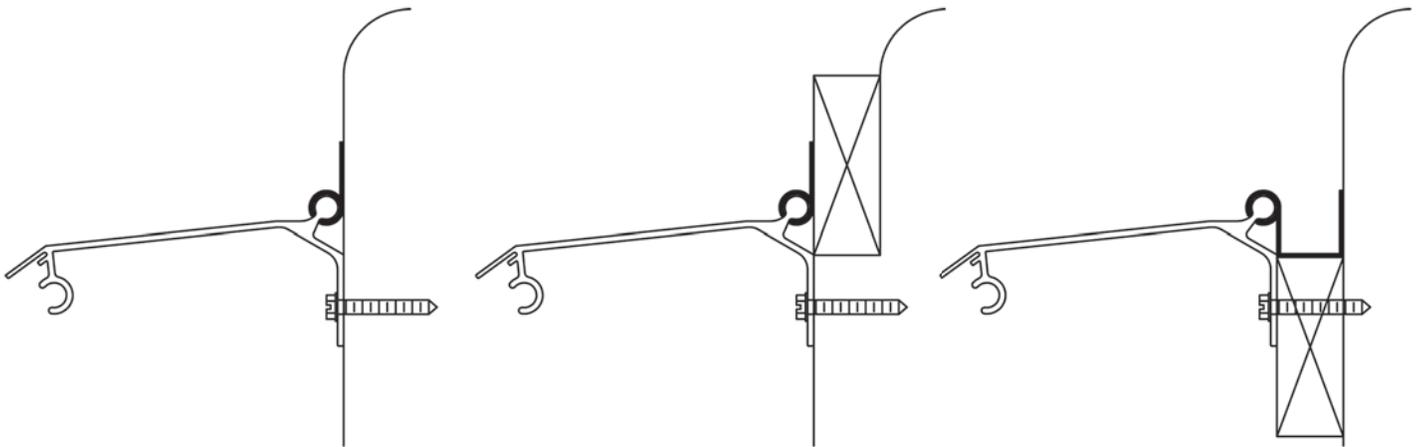
# Getting Started

## 1. Preparing RV Awning Rail for Dura-Fold Mounting Rail.

A. If your RV does not have a factory installed awning rail or yours is badly damaged, it is necessary to install a new one.

B. Make sure the Awning Rail is clear of dirt and debris, it may be necessary to loosen the fasteners along the awning rail this will allow you to slide the Dura-Fold Mounting Rail on easier. Leave fasteners loose until instructed to tighten.

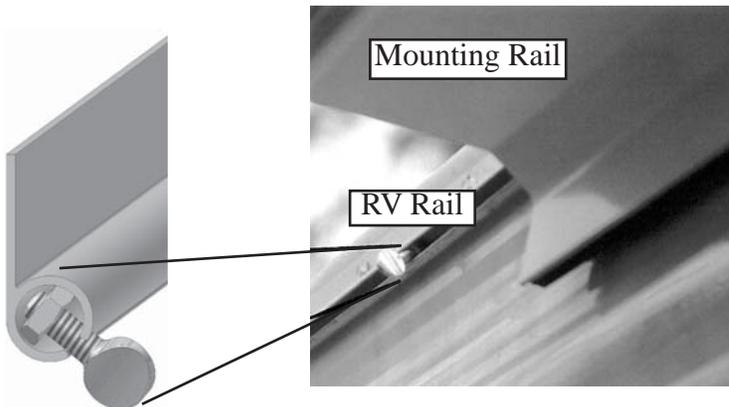
2. References made to the left and right ends of the Awning are determined when viewed facing the RV.



3. Because there are various styles of awning rails it may be necessary to shim either the RV Rail or the Dura-Fold Mounting Rail. See drawings above. Shim material is not provided with the Awning. **Caution!** Make sure when you are completed with this step that the Dura-Fold Mounting Rail is below horizontal or water will run back to RV wall and cause leaking.

# Mounting Rail Installation

1. Determine where the Dura-Fold Awning is to be positioned along the RV awning rail and mark that location on the awning rail.



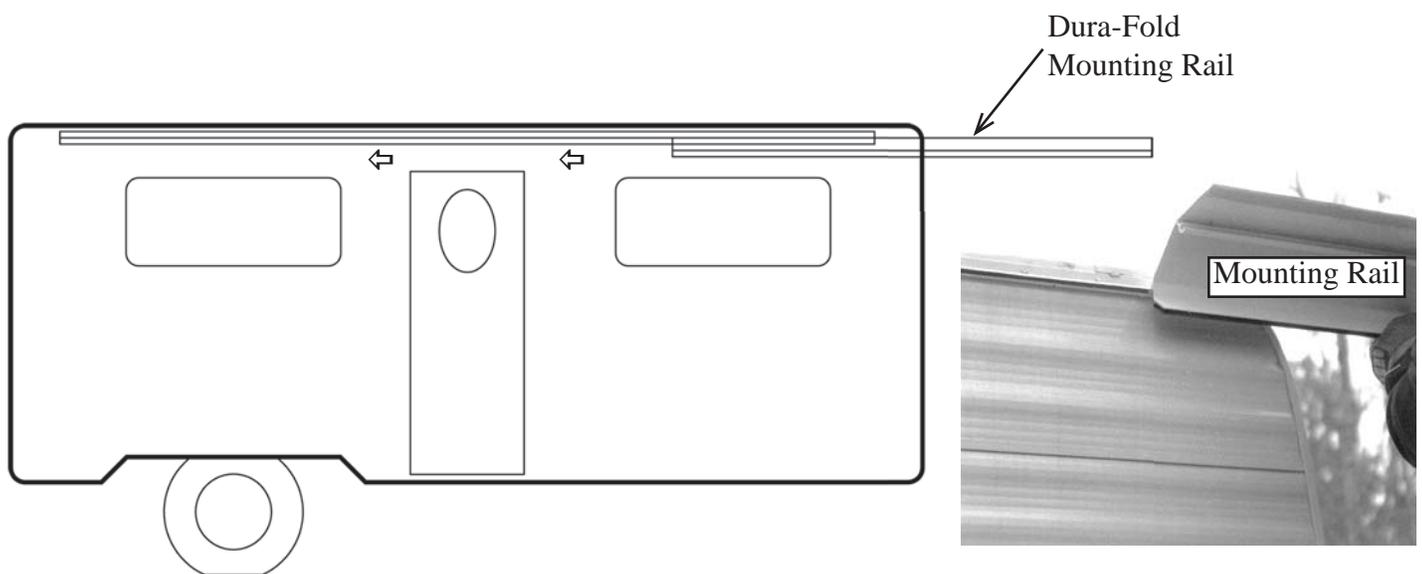
Install 1/2" thumb screw and nut into RV rail. Slide thumb screw to the left end position, mark and tighten. This will stop the Mounting Rail at the proper location.

**Note:** If you plan to add a Dura-Breeze Screen Room under the awning, you must position the awning so that the side walls of screen room will **not** join the RV at a window location. Full length screen room side walls will be installed directly under the right and left ends of the awning.

2. Before sliding the Mounting Rail into the awning rail, spray the awning rail cavity with a lubricant such as furniture polish.



3. Each Mounting Rail section is labeled and corresponds to the layout diagram provided with your awning.



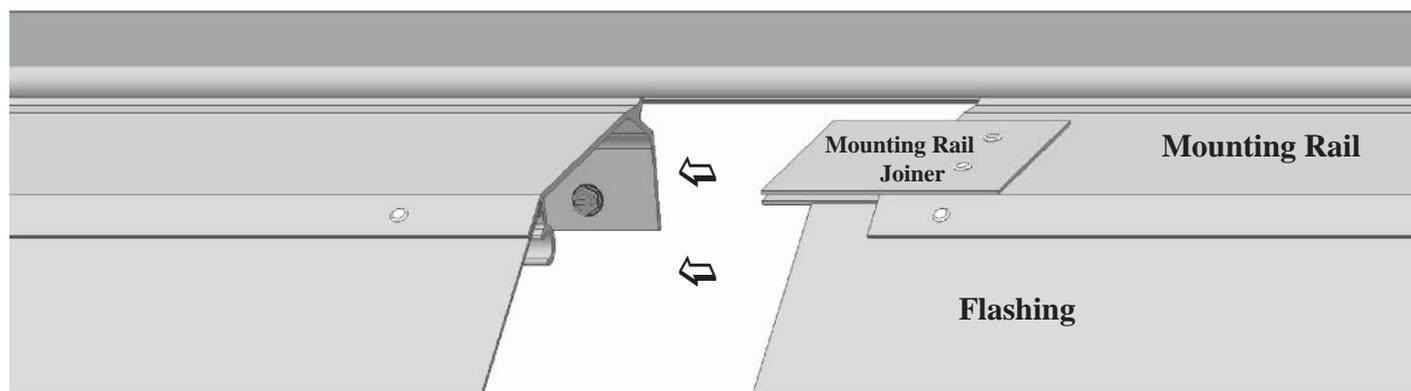
4. Slide the Left End Dura-Fold Mounting Rail section into the RV awning rail until it reaches the thumb screw stop you installed.

5. Using the same procedure, install the remaining sections of Mounting Rail in the sequence shown in the layout diagram.

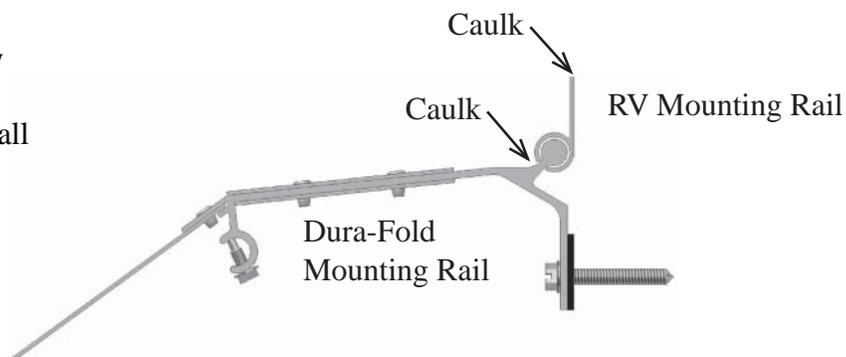


6. Secure the Mounting Rail to the side of the RV with #12 x 1-1/2" screws. Mark the locations of all studs or solid support on the bottom lip of the Mounting Rail. Drill 7/32" holes through your marks on the Mounting Rail. Install #12 x 1-1/2" screws. **If you must shim the Mounting Rail, you should replace the #12 x 1-1/2" screws provided with new screws of an appropriately longer length.**

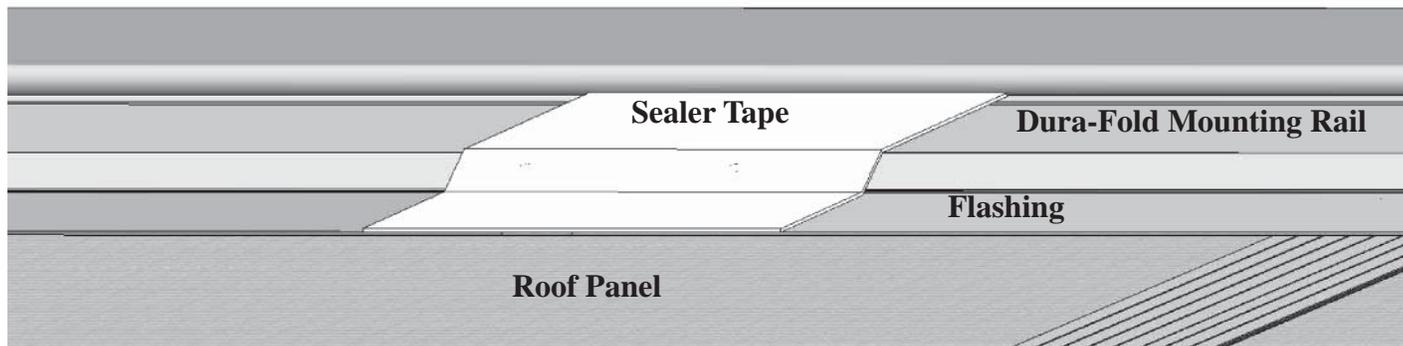
**Note:** As you slide each Mounting Rail section into position, make sure legs of the Mounting Rail Joiner straddle the Rail already in place. Also be sure that the flashing on front of Mounting Rail slides into flashing grooves of Rail being joined.



7. If you loosened any fasteners in the RV Awning Rail, tighten them now. First, apply a generous bead of caulking in the cavity between the RV Awning Rail and the side wall of the RV. Also caulk full length of top of the joint of Dura-Fold Mounting Rail and the RV Mounting Rail.



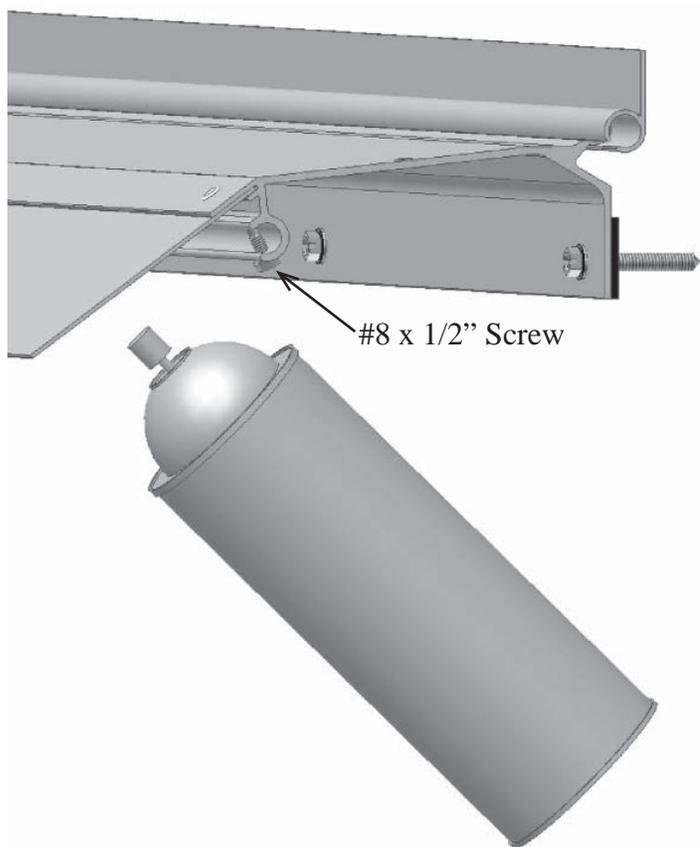
8. After all sections of the Dura-Fold Mounting Rail are installed and the RV Awning Rail has been secured as described in Step 7, apply Sealer Tape. Remove film covering the black, sticky surface. Apply over the center of each joint; covering flashing, Mounting Rail, Mounting Rail Joiner and continuing over the bead of RV Awning Rail. Make sure that tape adheres to all surfaces.



When Dura-Fold Mounting Rail is properly installed as described, the **Mounting Rail** will not need to be removed while transporting the RV over the road.

### **Awning Panel Installation**

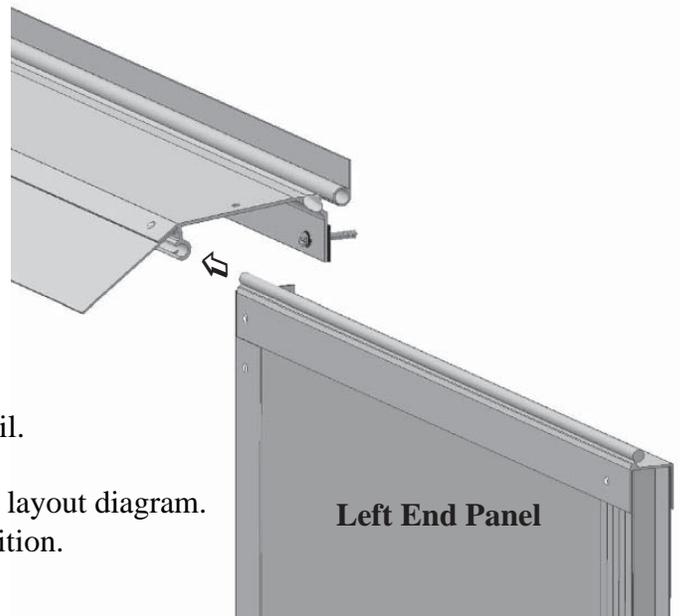
1. Each panel is identified with a numbered label on its front edge. Refer to the layout diagram to locate the position of each panel. Panels are to be inserted from right to left into the Mounting Rail in the order shown in the layout diagram.



2. Remove the factory installed #8 x 1/2" Screw Stop at the Right End of the Mounting Rail. This will allow you to insert panels. Save the #8 x 1/2" Screw Stop because you will replace it after all awning panels have been installed.

3. Lubricate the cavity of the Mounting Rail with furniture polish to allow the awning panels to slide easier.

4. Insert the back “lip” of the first panel (left end) into the Mounting Rail Cavity. With front of panel hanging down, slide it the full length of Mounting Rail until it hits the #8 x 1/2” Screw Stop on the left end.



**Helpful Hint:** Panels will tend to slide easier if you keep your hand as high as possible on the edge of the panel while you are pushing it along Mounting Rail. If a panel gets stuck, don’t hammer on the panel. Use a rod or rail reamer to drive the bead on the panel along Mounting Rail.

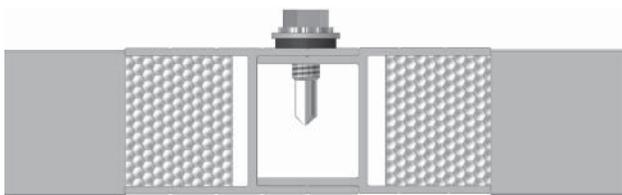
5. Select the next panel to be installed as indicated on the layout diagram. Insert the panel into the Mounting Rail and slide into position.

6. Align these two panels and push them together until the Roof Panel Frames interlock. The Panel Frames must be fully together for their full length.



Then install a #12 x 3/4” screw with EPDM washer half way down Frame.

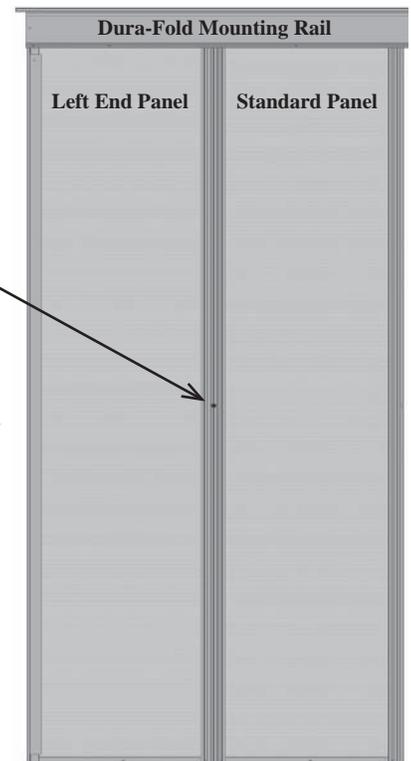
**Helpful Hint:** You must be sure the Awning hasn’t grown or shrunk. If you need to make an adjustment, you should remove the screw in each panel and tighten or loosen all the Panels to achieve the proper awning length.



#12 x 3/4” Screw  
With EPDM Washer

7. Continue this procedure until all panels are installed into the Mounting Rail.

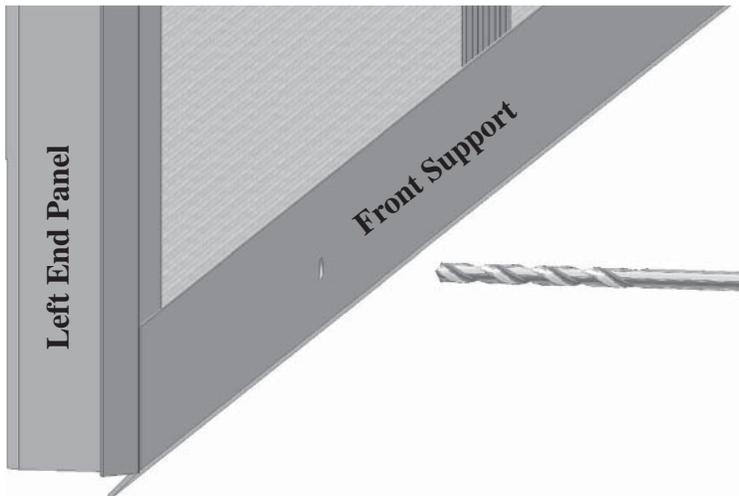
8. Replace the Screw Stop at the right end of the Mounting Rail.



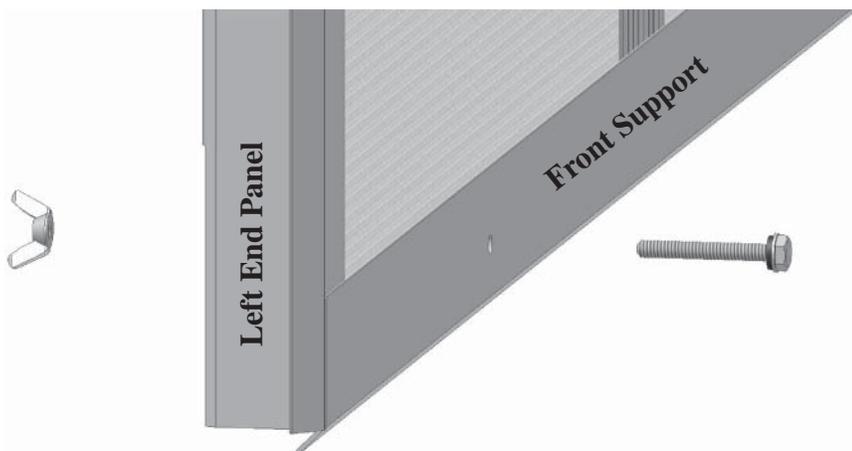
## Front Support Installation

1. The Front Support(s) must be installed with the panel sections hanging down.
2. Each section of the Front Support is labeled for easy identification. Refer to the layout diagram for the location of each Support section.

3. Starting on the left side of the awning, slide the Left Support onto the panels.  
**Make sure the left end of the Left Front Support is seated in the End Panel notch. The front of the Awning Panels must be tight against the internal stops of Front Support.**



4. Using the pre-drilled holes in the Front Support as a template, drill a 1/4" hole through the panel.



5. Install 1/4-20 x 2" Aluminum Hex Head Bolt, EPDM Washer and Wing Nut in each hole, making sure the Wing Nut is on the underside of the awning.

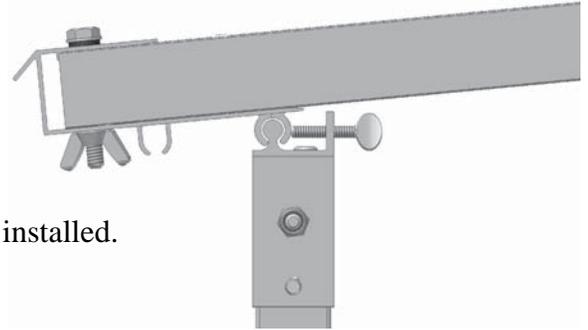
6. Refer to your layout diagram for the next section to be installed and follow procedure used to install the first section.

Left End Panel	Standard Panel w/Uplock	Standard Panel	Right End Panel						
Front Support			Front Support			Front Support			

7. Continue until all sections are installed.
8. The Right End Support is installed the same way as Left End Support except that right end of Support is butted into the notch of Right Side Trim.

## Post Identification & Key Parts

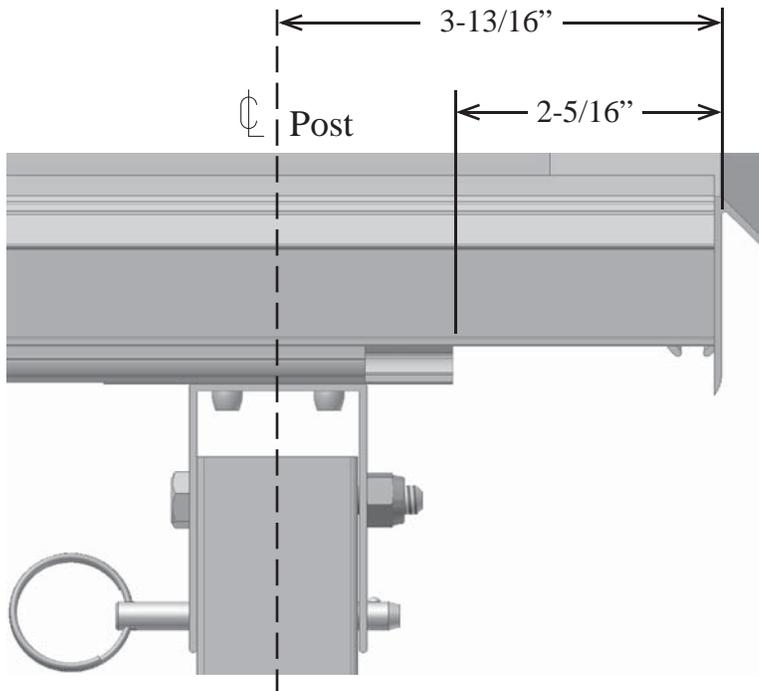
1. The layout diagram shows the proper placement for each post .
2. The Thumb Screw on the Post Top should be facing the back of the Awning when installed.
3. The “Ball” on the Post Top slides into the inside track on the Support Channel.



### Installing Posts

1. Raise the Awning and temporarily support it until all Posts are installed.

**Helpful Hint:** Six-foot step ladders make handy supports.



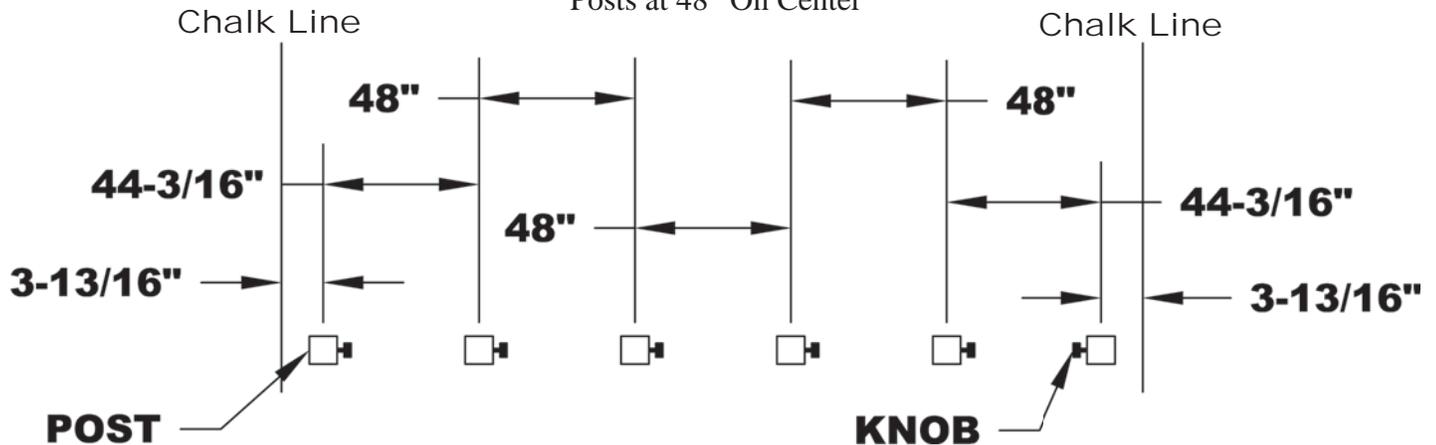
2. Slide half of the Posts in from right and half from left. Slide each End Post in until there is 2-5/16” space from Side Fascia to the end of Post top.

**See Drawing.** Lock into position with Thumb Screw. **Helpful Hint:** Use a Machinist Square for the 2-5/16” dimension.

Right Corner Post as viewed facing home.

### Dura-Fold and Dura-Breeze Post Spacing

Continue Setting All Other Posts at 48” On Center



**Helpful Hint:** As you slide Posts into the Track be aware of the position of the Knob on the Post. The Corner Posts need the Knob to be facing away from the corner. To accomplish this you must disassemble the post top and rotate it 180°. (See Drawing Above)

## Installing Post Anchors

1. Plumb each post and mark the Post Anchor locations on deck or concrete pad.
2. Install required anchors.

### Concrete

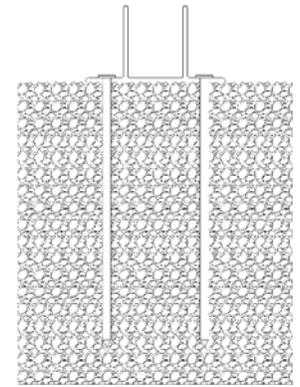
**A** - Drill two holes 1-1/2" deep for each Post, using 1/2" Masonry Bit.

Insert in each hole:

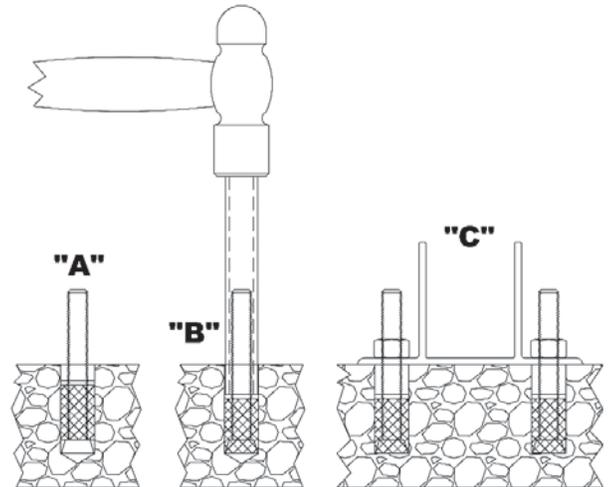
Anchor Bolt, Expanding Ferrule  
Lead Anchor, Washer

**B** - Use Hammer and 1/4" Pipe to seat each Anchor.

**C** - Place Anchor Bracket over the bolts and secure with 1/4" Nut.



Soil Anchor can **not** be used without Tie Down Kit.  
(See Page 13)

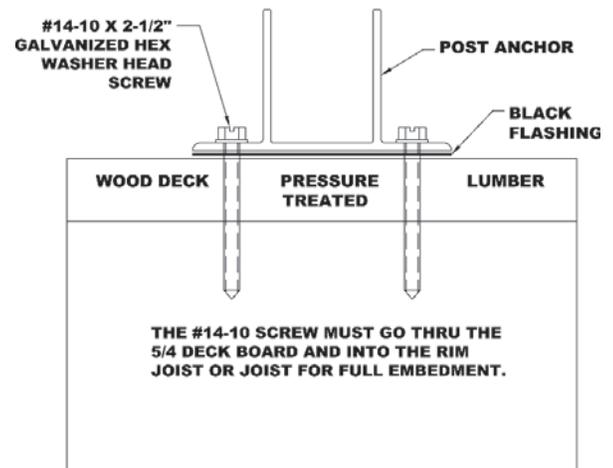


**Note: If You are installing Posts on a Pressure Treated Lumber Deck. You will be supplied with a piece of 4" x 4-1/2" Black Flashing with Paper coated adhesive on one side for each Post. Peel the paper off from the Flashing and stick the Flashing to the bottom of the Post Anchor. Then trim the excess Flashing from around the Anchor Bracket.**

**Note: You must use a 1/8" drill and pre-drill the holes for the fastener. Attach Bracket to wood with two (2) #14-10 x 2-1/2" Galvanized Hex Washer Head Screws. (Full Embedment Required!!!)**

3. Secure bottom of Post to the Post Anchor Bracket with the Quick Release Pin through the pre-drilled holes (replace Pin if it has been removed).

4. Do final leveling and pitch adjustment of complete roof.



## Install Valance Trim

1. You may start the Trim Valance at either corner.

2. Feed the vinyl bead edge of the Trim Valance along the Valance Track of the Front Support until you reach the other corner. Adjust Valance so that you have an equal amount of Valance remaining at each corner.

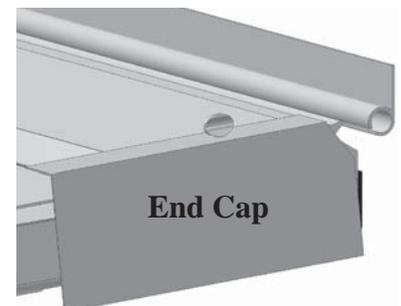
**Hint:** The Valance will slide more easily if one person pulls the leading end of the Valance along the Track while another feeds it into the Track.

3. Feed the Valance Bead along the Valance Track on both Side Trims to the wall of the RV.

4. Trim the end of the valance so it will butt against the RV wall. You should use a "hot knife" or heat the cut end so the material won't fray.

## Install Mounting Rail End Caps

Attach End Caps to both ends of Mounting Rail with 1/2" Thumb Screw and Wing Nut.



## Off Season Storage

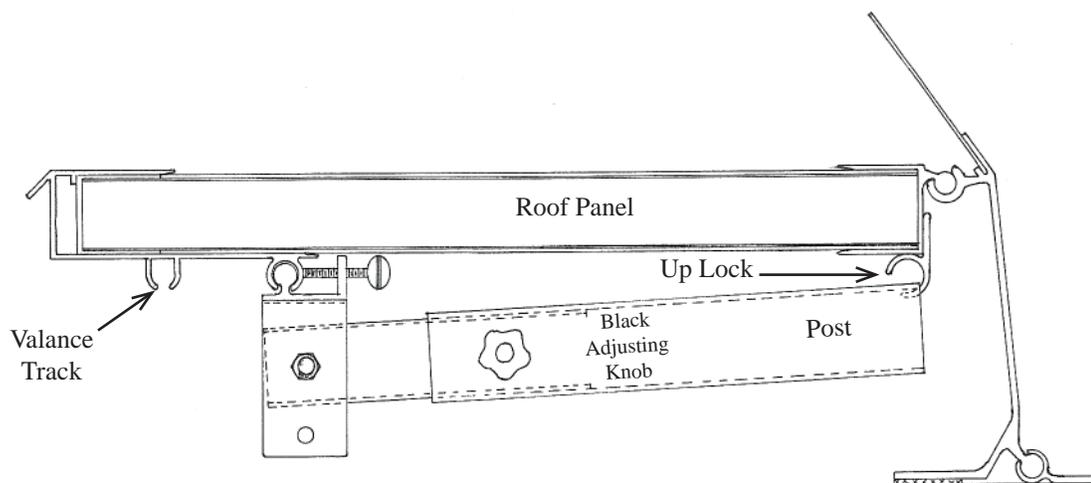
The Dura-Fold Awning can be folded down as a complete unit.



### Folding Awning Down as a Complete Unit

This procedure will require four (4) or more people depending on awning length.

1. Remove Valance Trim by reversing installation procedure described on Page 10.
2. Remove the Quick Release Pins from the top and bottom of the Center Post(s). Leave the End Posts secured for support. Depending on the length of the awning, temporary support may be needed.
3. Swing the Center Post up, hook the bottom of the post up and into the Up-Lock.
4. Tighten the Black Adjusting Knob, locking the post into the Up-Lock.
5. With one person supporting each end of the awning, have another person remove the Quick Release Pins and swing each End Post up and lock it into its Up-Lock. Then with rest of people spaced evenly along the front of the awning, slowly lower it until it rests on the deck or simply hangs straight down parallel to the RV.

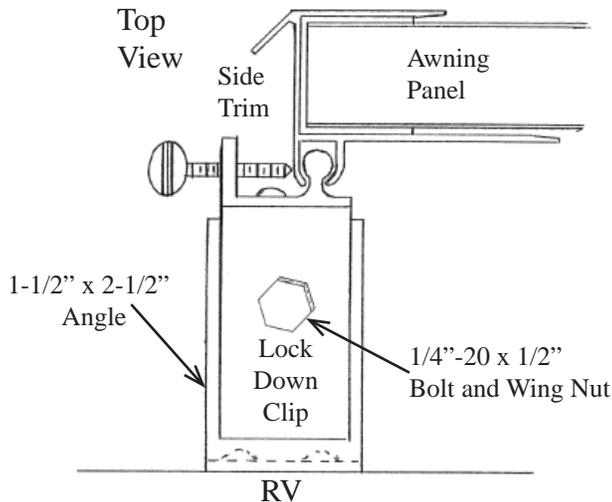


## Installing Lock Down Assembly (Optional)

1. The Lock Down Assembly consists of a 1 - 1/2" x 2 - 1/2" Angle which is fastened to the RV side wall, a Lock Down Clip that slides in Valance Track on the Side Trim and a 1/4"-20 x 1/2" Hex Head Bolt and Wing Nut. This is used to secure the awning to the RV for off-season storage.

### This is not for Transportation!

2. With the Awning in the down position, locate and mark a stud or the bottom plate of the RV that aligns with the Valance Track on both Side Trims.



3. Fasten the 1-1/2" x 2-1/2" Angle to the Lock Down Clip with 1/4"-20 x 1/2" Hex Head Bolt and Wing Nut. Make sure to attach Angle so the 1-1/2" leg faces down.

4. Slide the Lock Down Assembly up the Valance Track, (keeping the thumb screw outside) until the 1-1/2" leg of the Angle is in line with the marks you made showing the studs or bottom plate location.

5. Tighten thumb screw securely so the Lock Down Clip will not move. Mark the location on the RV wall using the pre-drilled holes in the 1-1/2" leg of the Angle.

6. Remove Lock Down Assembly from Valance Track and then remove Angle from Lock Down Clip.

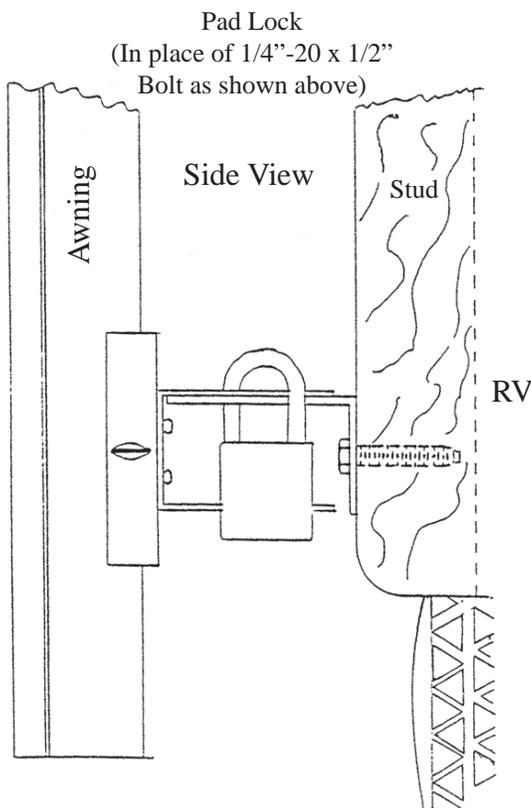
7. Line up the pre-drilled holes on the Angle with your marks and attach with a #12 x 1-1/2" screw in each hole. (You may need to drill a 7/32" pilot hole in the RV wall.)

8. The Angle may be left on RV wall. The clip and 1/4"-20 screw must be saved to secure Awning in Lock Down position.

### Lock Down Procedure (For off-season storage)

Slide the Lock Down Clip in the Valance Track until it aligns with the 1-1/2" x 2-1/2" angle. (Make sure the head of the Thumb Screw faces away from the Roof Panel. Tighten the Thumb Screw.

Align the holes in the Angle and the Lock Down Clip, then secure with 1/4 x 20 x 1/2" Hex Head Bolt and Wing Nut or a Padlock.

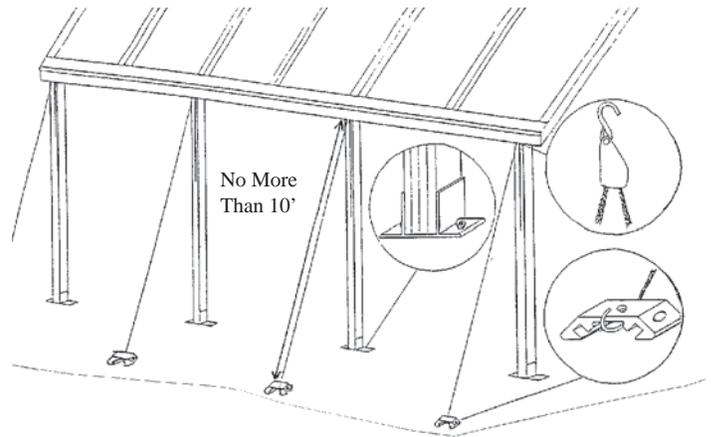
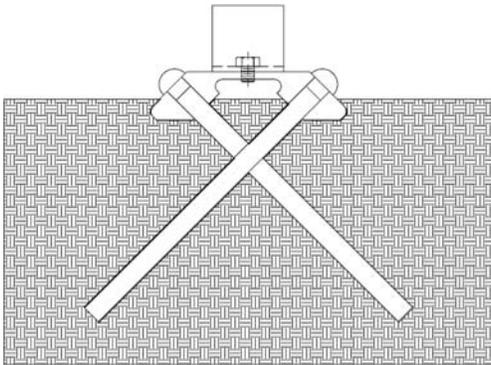


## Disassemble Awning

1. Simply follow Assembly Instructions in reverse to the point of installing the Mounting Rail. The Mounting Rail does not need to be removed.

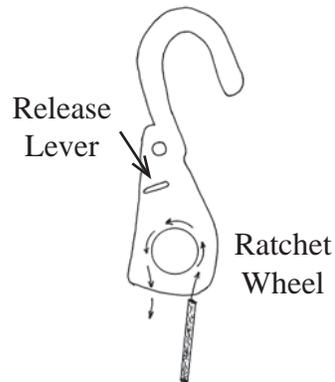
### Installation of Optional Tie-Down Kit

1. Position the Tie-Down Anchor in front of the Post within ten (10) feet of the top of the Post.



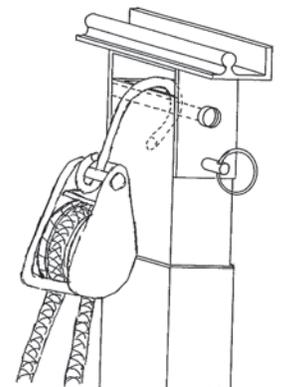
2. Drive two (2) Soil Anchor Pins alternately until flush with Anchor Base.

3. Push the Release Lever up and feed cord around ratchet wheel as shown in drawing.



4. Tie loose hook to other end of cord.

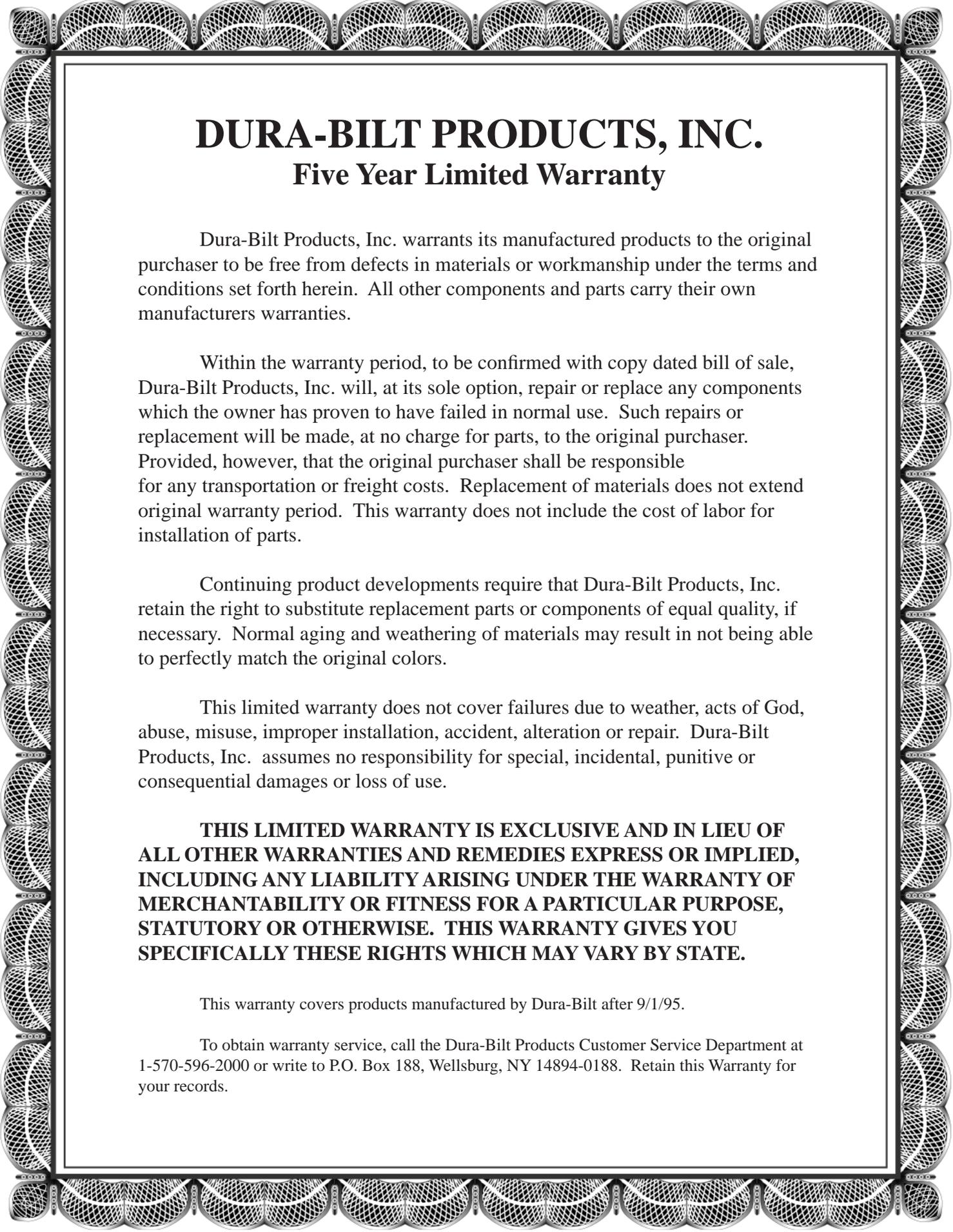
5. Secure hook to Post top as shown in drawing.



6. Secure other hook to Anchor as shown in drawing. Make sure hook is secured from under side of Anchor. This keeps it from coming loose when tension is applied.

7. Pull loose end of cord to desired tension.

## Notes



# **DURA-BILT PRODUCTS, INC.**

## **Five Year Limited Warranty**

Dura-Bilt Products, Inc. warrants its manufactured products to the original purchaser to be free from defects in materials or workmanship under the terms and conditions set forth herein. All other components and parts carry their own manufacturers warranties.

Within the warranty period, to be confirmed with copy dated bill of sale, Dura-Bilt Products, Inc. will, at its sole option, repair or replace any components which the owner has proven to have failed in normal use. Such repairs or replacement will be made, at no charge for parts, to the original purchaser. Provided, however, that the original purchaser shall be responsible for any transportation or freight costs. Replacement of materials does not extend original warranty period. This warranty does not include the cost of labor for installation of parts.

Continuing product developments require that Dura-Bilt Products, Inc. retain the right to substitute replacement parts or components of equal quality, if necessary. Normal aging and weathering of materials may result in not being able to perfectly match the original colors.

This limited warranty does not cover failures due to weather, acts of God, abuse, misuse, improper installation, accident, alteration or repair. Dura-Bilt Products, Inc. assumes no responsibility for special, incidental, punitive or consequential damages or loss of use.

**THIS LIMITED WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES AND REMEDIES EXPRESS OR IMPLIED, INCLUDING ANY LIABILITY ARISING UNDER THE WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, STATUTORY OR OTHERWISE. THIS WARRANTY GIVES YOU SPECIFICALLY THESE RIGHTS WHICH MAY VARY BY STATE.**

This warranty covers products manufactured by Dura-Bilt after 9/1/95.

To obtain warranty service, call the Dura-Bilt Products Customer Service Department at 1-570-596-2000 or write to P.O. Box 188, Wellsburg, NY 14894-0188. Retain this Warranty for your records.