

# ULTRA SUPER SHADE INSTALLATION INSTRUCTIONS

## TOOLS REQUIRED FOR INSTALLATION

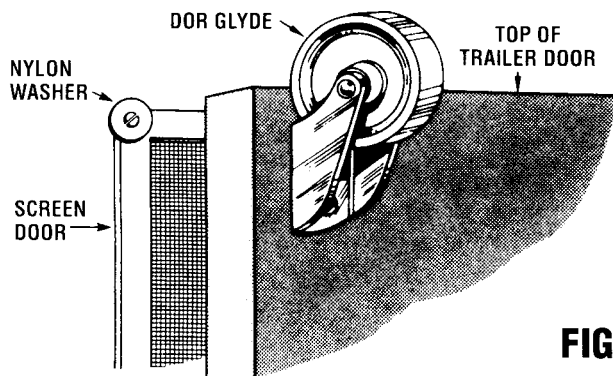
- TAPE MEASURE • CENTER PUNCH • PLIERS
- ELECTRIC DRILL -DRILL BITS: 1/8, 3/16, 7/32
- RATCHET / SOCKET DRIVER • STEP LADDER
- SOCKETS: 7/16, 3/8 • 1/4 HEX DRIVER
- FLAT HEAD AND PHILLIPS SCREWDRIVER

**CAUTION:** The springs are pre-wound in order to make installation easier. Do not attempt to relieve tension, until instructed to do so, by the installation instructions.

## PLEASE READ THE INSTRUCTIONS COMPLETELY BEFORE BEGINNING THE INSTALLATION

Please read and perform these preliminary steps and suggestions before beginning the installation procedure. This will allow the awning to be installed more easily and avoid any possible damage to the RV.

- Check the RV for any sharp window edges or lights that may damage the awning fabric. Cover them with duct tape. Install the "Dor-Glyde" on the top outside corner of the RV door. (SEE FIG. 1) Attach 3/4" dia. nylon washer to the top outside corner of screen door also to prevent damage to fabric.



**FIG. 1**

- Determine the location of the floor framing. (Some coaches have stickers indicating the location of awning blocking.) This is necessary because the lag bolts which are used to attach the bottom brackets must be centered, as nearly as possible, in the floor frame members for proper support.

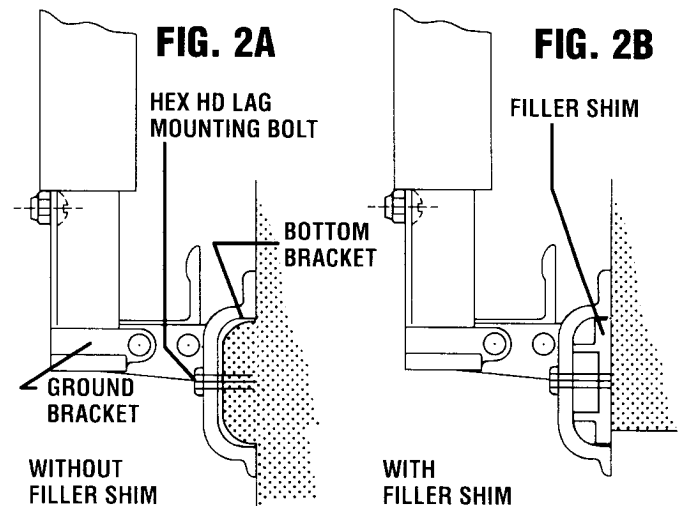
- Using a tape measure, find the approximate mounting position of the awning on the side of the unit. Make certain that the location of the arms allow proper clearance from doors, windows, storage compartments, and wheel wells, ESPECIALLY AT THE AWNING RAIL AND FLOOR LINE WHERE THE TOP AND BOTTOM BRACKETS MUST BE MOUNTED.

**NOTE:** The awning length is measured from the center of the arm to the center of the other arm.

- The bottom bracket is designed with an opening in back of the bracket to fit over the trim strips while providing firm support above and below the trim for trouble free attachment. (SEE Fig. 2A)

If your RV has no trim that interferes with the bottom bracket or if the bottom bracket extends below side of RV, a filler shim may be required. The filler shim is offered as an accessory for added support. (PART #81268) (SEE Fig. 2B)

It is recommended to use a center punch to mark hole location before drilling pilot holes for the mounting bolts. This will avoid drill travel and possible damage to the RV.



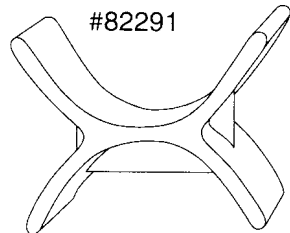
**STEP 1:** Use a file to remove any sharp edges or burrs on the end of the awning rail to avoid damaging the fabric. It is also important to open up the end of the awning rail to make it easier for the fabric to slide in. If the awning rail is pieced together, also open the leading edge of the other sections.

**STEP 2:** Remove the roller assembly from the shipping tube, taking care not to drag or scrape the fabric or end caps, and lay the roller on a drop cloth or in a clean dry area. Remove the plastic wrapping on the roller by pulling it open over one end and simply sliding it off the other.

**NOTE:** DO NOT CUT PLASTIC WITH A KNIFE OR SCISSORS AS IT IS LIKELY THAT FABRIC DAMAGE WILL RESULT!

**HELPFUL HINT:**

Another method to keep the fabric from getting damaged or dirty, is to lay the roller across two Awning Cradles (#82291). This keeps the roller up off the ground and provides a great alternative to using a drop cloth.



**NOTE:** DO NOT REMOVE THE SHIPPING SCREW FROM THE RATCHET HANDLE -THIS WILL BE DONE LATER IN THE INSTALLATION PROCEDURE.

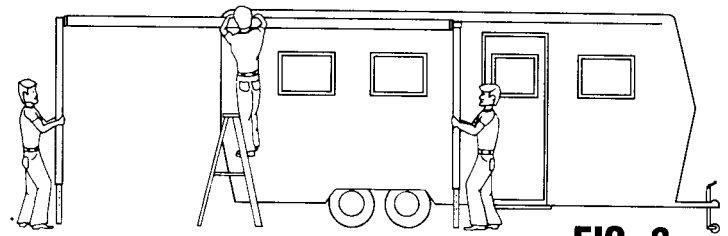
**STEP 3:** Remove the masking tape and attach the arm assemblies to the roller by sliding the arms over the arm caps, on each end of the roller assembly. Bolt them into place using the 1/4-20 x 5/8" hex head bolts and lock washers provided.

**NOTE:** IT IS NECESSARY TO TIGHTEN THE BOLTS UNTIL THE LOCK WASHER IS COMPRESSED.

After both arms have been securely attached to the arm caps, remove the cotter pin from the rear roller cap to release the spring tension on the rear arm.

**CAUTION:** DO NOT REMOVE THE SHIPPING SCREW FROM THE RATCHET HANDLE AT THIS TIME!

**STEP 4:** With one person holding the awning on each end, pick up the awning and take one wrap off the fabric, or about 12 - 18 inches. This should provide enough slack material to allow the fabric to be easily inserted in the awning rail. Keeping the arms parallel, raise the roller up until it is even with the height of the awning rail and extend the inner arm to the floor by releasing the Height-Lock handle. Walk the awning back to the end of the awning rail you previously prepared and with a third person on a ladder to guide the fabric into rail, walk the awning forward into the proper position for mounting. (SEE FIG. 3)



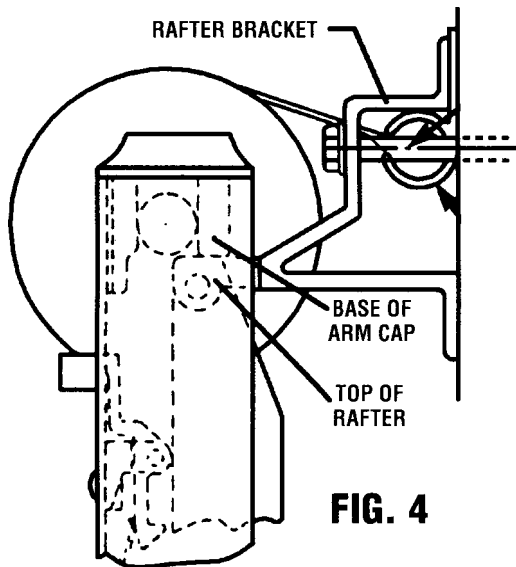
**FIG. 3**

**NOTE:** WHEN SLIDING THE FABRIC INTO THE AWNING RAIL, IT'S IMPORTANT TO KEEP THE FABRIC TIGHT AND THE ROLLER AT THE SAME HEIGHT AS THE AWNING RAIL. THIS WILL ALLOW THE FABRIC TO SLIDE IN MORE EASILY AND AVOID SNAGGING OR DAMAGING FABRIC.

**STEP 5:** When the awning is in position, make certain that the location of the arms provide enough clearance from doors, storage compartments, etc. and that room is available for the top and bottom brackets to be mounted properly over the awning rail and at the floor line. With the awning assembly in the desired position, position the top bracket over the awning rail and mark the coach at the edge of the bracket. Make certain that the rafter arms are centered in the arm assembly when positioning the rafter and top bracket. Pivot the arm assembly away from the coach, release the quick flip travel lock, and loosen the knob on the rafter. Reposition the top bracket over the awning rail, and using the bracket as a template, mark the location for the mounting holes. Move the rafter back, and punch and drill the pilot holes for the 2 1/2" lag bolts provided.

**CAUTION:** CARE SHOULD BE TAKEN NOT TO DRILL COMPLETELY THROUGH THE WALL, DAMAGING INTERIOR FINISH.

On wood or aluminum frames, use a 3/16 drill bit. When drilling into steel frame members, use a 7/32 drill bit. Then simply reposition the bracket and bolt it into place. The mounting bolts should be sealed with a silicone type sealer to prevent water leaks. Rotate the arm back into the travel position, making certain that the arm cap is resting on top of the rafter, and lock the Quick-Flip travel lock to hold it in place. If additional clearance is needed, the arm height can be adjusted using the Height-Lock handle. (SEE FIG. 4)



**FIG. 4**

**HELPFUL HINT.** An easy way to center the rafter in the arm assembly, and keep it centered during the installation, is to use a double layer of cardboard 10" to 12" long by about 3" wide. Simply place the folded cardboard between the rafter and arm, with the length of the cardboard centered across the rafter, and squeeze the arm and rafter back together. This will center the rafter and hold it in place until you remove the cardboard after attaching the brackets. For best results, place the cardboard 1' to 2' down from the top of the arm assembly.

**NOTE: IT IS VERY IMPORTANT TO DRILL PILOT HOLES BEFORE INSERTING THE LAG BOLTS. THIS WILL LIMIT THE POSSIBILITY OF SPLITTING THE FRAME MEMBERS AS THE LAG BOLTS ARE INSTALLED.**

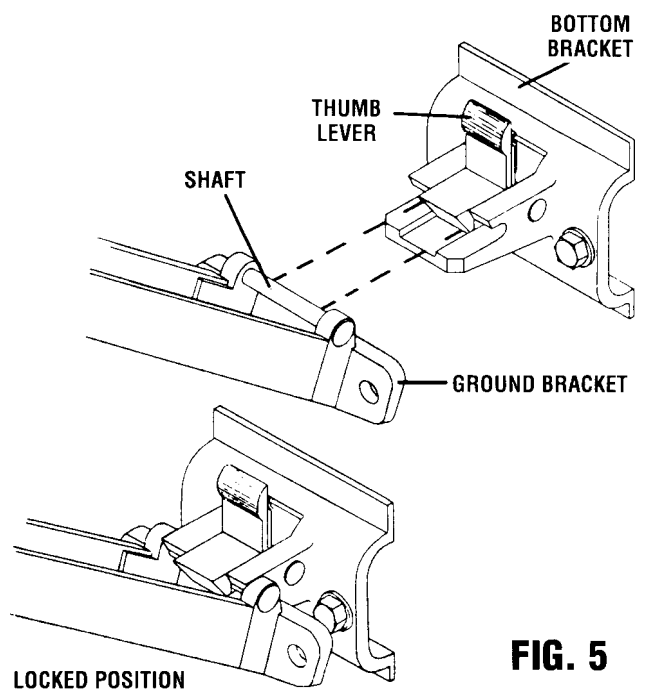
**STEP 6:** Repeat the above procedure and mount the front top bracket. It's very important to center the rafter arms in the arm assembly. When installing the second top bracket and centering that rafter, recheck the alignment of the other rafter to insure that it is still in the proper position in the arm assembly.

**CAUTION: WHEN MOUNTING THE FRONT TOP BRACKET, DO NOT REMOVE THE SHIPPING SCREW ON THE RATCHET HANDLE. THIS WILL BE DONE AFTER ALL THE BRACKETS HAVE BEEN MOUNTED.**

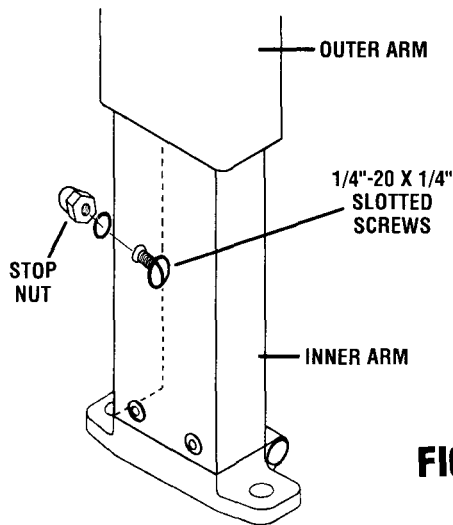
**STEP 7:** Attach the bottom mounting brackets to the ground bracket by depressing the thumb lever, sliding the shaft into the locked position, and releasing the thumb lever to lock it into place. (SEE FIG. 5)

Make certain that the arm cap is resting on the top of the rafter arm and the Quick-Flip travel lock is in the open position. Release the Height-Lock handle and slide the inner arm up until the bottom mounting bracket is in position, with the mounting holes centered with the floor line on the side of the unit. Make certain the arm is straight and mark the unit along one side and the bottom of the bracket. Remove the mounting bracket from the arm assembly, move the arm away, and reposition the bracket on the marks made earlier. Mark and drill the mounting holes and attach the bracket with the 2 1/2" lag bolts provided. Raise the inner arm up and push the ground bracket into the bottom bracket until it locks into place. Recheck to make certain that the bottom of the arm cap is still resting on the top of the rafter, as in Fig. 4. Release the Height-Lock handle and raise the arm up until the Height-Lock handle locks into the next hole above the original position. This will allow proper clearance for the base of the arm cap to be raised above the top of the rafter which will allow proper clearance for the arm to go into the travel position above the rafter bracket. The stop nut may now be installed, in the inner arm, in the first visible hole below the outer arm. (SEE FIG. 6)

Repeat the above procedure to attach the other bottom bracket and install the stop nut.



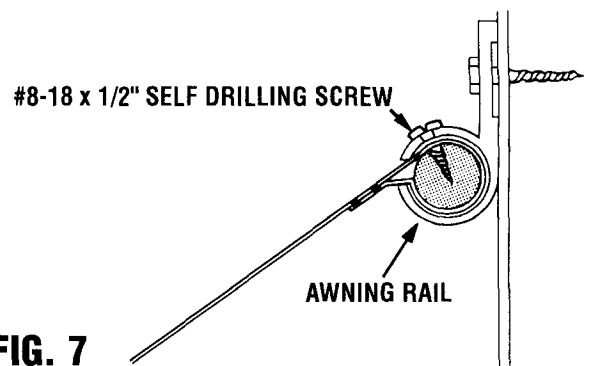
**FIG. 5**



**FIG. 6**

**NOTE:** IT IS VERY IMPORTANT TO INSTALL THE ARM ASSEMBLIES STRAIGHT ON THE UNIT FOR SMOOTH OPERATION WHEN THE AWNING IS ROLLED UP OR DOWN.

**STEP 8:** Remove the shipping screw from the ratchet handle. After unlocking both Safety Latches, roll the awning out. Slide the strap to the forward end of the awning. Hold the strap securely and rotate the ratchet handle to the roll up position. **CAUTION:** The awning will now try to roll up! While holding the awning down with the pull strap, slide the strap to the center of the awning and then allow the awning to roll up, using the pull strap to control the speed. Center the fabric in the awning rail and, after checking the rafter to make certain it is still centered in the arm assembly, unlock and roll the awning out about 8" to 12" to provide clearance, and install one of the #8-18 x 1/2" screws. This should be inserted through the awning rail and fabric cord about two inches from the edge of the fabric. (SEE FIG. 7) We recommend drilling a 1/8" pilot hole before installing the screw. This makes the installation of the screw much easier and limits the possibility of damaging the fabric. Repeat this procedure at the other end of the fabric.



**FIG. 7**

**STEP 9:** Operate the awning according to the operating instructions to check that all parts are functioning properly. Make certain that the rafters are centered properly and that the arms are installed straight on the unit. After making any necessary adjustments, return the awning to the travel position and lock the Safety Latch securely behind the rafters and tighten both rafter knobs securely.