

Retractable Awning installation And Set Up Instructions

Congratulations on the purchase of your new lateral arm retractable awning. It is very important to read the following instructions before and during the installation of your awning. Larger awnings will require 2 and possibly 3-4 people, to lift the heavy, cumbersome awning system into place. Please use common sense to avoid any catastrophic injury. You have purchased one of the most well built retractable awning systems manufactured in the United States. Remember, your awning is to be used for sun protection only. THIS UNIT IS NOT MEANT TO BE LEFT OUT IN HIGH WINDS, RAIN, AND OTHER INCLIMATE CONDITIONS.

Mounting the lateral arm awning to the structure correctly is critical for safety and proper function of the unit. The wall, ceiling, or roof brackets must be securely fastened to support the twisting of the square support bar created by wind loads.

Fastening the mounting brackets to wall studs, ceiling or roof joists, beams, or other major structural members is mandatory to accomplish the proper installation. Siding, roof decking, brick veneer, and fascias will not support the weights and loads created by the awning at any given time.

The number of brackets are determined by factory engineering. Additional brackets may be needed if extra support is required.

Always mount the wall, ceiling, or roof brackets as close to the arm brackets as possible. It is not always possible to put the brackets right next to the arms because of spacing of structural supports. Additional brackets should be spaced as evenly as possible throughout the width of the awning.

Determining Bracket Location

The mounting height of the wall brackets will determine the final head clearance capabilities.

The suggested pitch of the awning is 3" drop per 12" of projection. This is only a recommendation and not mandatory. Most installations will not allow the recommended pitch. The recommended pitch will help reduce uplift during windy conditions.

If the recommended pitch cannot be obtained due to mounting height restrictions, you may want to consider mounting the unit on the roof. The retractable awning has a minimum pitch of 5 degrees off horizontal, and a maximum of 30 degrees off horizontal.

After determining the wall bracket height, add 4 3/4" to the height and snap a line on the wall. (8" clearance is required from the bottom of bracket on non-hooded awnings. 10" clearance is required for hooded awnings.) Also mark on the wall, the location of both ends of awning, and location of arm brackets. This will help prevent putting a mounting bracket where an arm bracket might land, thus restricting insertion of square bar into mounting bracket.

Locating Studs or Joists

An electronic stud finder is recommended when mounting on siding or soffit type materials. You will have to use more conventional methods of finding structural supports when working with brick, stone, stucco, and Styrofoam type exteriors. Header boarding may be required in some instances. Consult with your local dealer or manufacture. Measure the distance from a door or window to the approximate location of where the bracket is to be mounted. From inside the building, measure from that same door or window, to the same location. Using a stud finder, locate a stud, and record that dimension. Measure over the same distance on the exterior wall and drill a 1/8" locator hole 7/8" below the chalk line to the center of the stud. Draw a vertical line about 4" - 5" long. Position bracket on vertical line making sure the top of bracket is even with the horizontal chalk line. Place marks on the vertical line, indicating the center of upper and lower holes of the mounting bracket. Drill 1/8" pilot holes to confirm the center of studs or joists. Fill locator holes before mounting brackets. Drilling through the center of the studs or joist is most important to have adequate support for the awning. When tightening the lag bolts through the bracket to the wall, listen closely. If you hear any

cracking wood inside the wall, you probably did not hit the center of the stud or joist. Re-drill and try again. The lag bolt must have a good bite when drawn up. Do not over tighten lags, for this can also cause splitting or cracking. Wall brackets should always be mounted as if you are looking at an upside down "F". See below for universal brackets.

Shims may be needed to keep brackets level on sidings, fascias, or walls that are badly bowed. You may also want to shim the bottoms of the brackets out, if the mounting height is too low, and you cannot obtain a reasonable head clearance when the awning is fully extended. (Redwood or other metal products such as washers can be used as shims.) Other mounting hardware such as through bolts or toggle bolts may be required for hollow core block walls. Contacting a local fastener company for anchoring hardware recommendations can be helpful.

Hanging the Awning

Lift the awning up to the brackets. Line up the end of awning with the end marks. Push the square bar into the brackets. A rubber mallet or hammer and wood block may be required to knock in and set the square bar into the brackets. Insert and tighten the retaining bolts. For wall brackets, use the square stock washer supplied. This square stock slips into recessed channel on top of retaining bolt hole. This is to prevent the nut from pulling through the aluminum. Tighten the Allen head bolts.

Installing the Valance

The decorative valance is removed to limit damages during transport. Remove both end caps off of the front bar. Remove both screws with plastic anchors from front bar. Take the screws out of the plastic anchors. Thread valance rope line through the front bar. Longer awnings will require two people. (One to feed, and one to pull.) Once the valance is threaded, insert one plastic plug in each end. Center the valance. Insert screws into plastic plugs and tighten. (Do not over-tighten.) Replace the end caps.

Pitch Adjustment

The pitch setting as previously stated, is only a recommendation. Pitch adjustment is a personal thing. The lower the pitch, the better protection you

will get from the sun. Too low of a pitch means possibly someone hitting their head on the aluminum framework. You have to find a pitch that is right for your location.

Open the awning to a 24" extension. Relieving all downward force on arms, (this may require a second person or temporary post), with a $\frac{3}{4}$ " wrench, loosen both nuts on the arm bracket. Using a 6mm Allen wrench, turn the Allen wrench left to lower the pitch, and right to raise the pitch. When the desired pitch is achieved, raise the elbow of the arm, and tighten the top $\frac{3}{4}$ " nut first. This will prevent a "droopy" arm. Now tighten the bottom $\frac{3}{4}$ " nut. When the awning is fully retracted, the elbows should line up as in fig. 1 & 2.

Fig. 1

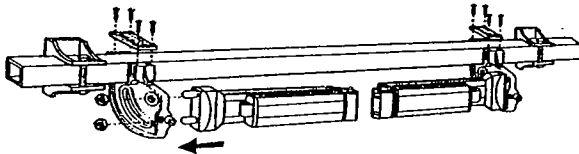
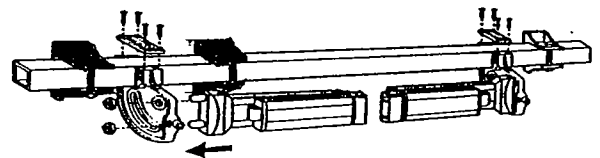


Fig. 2



After the awning has been mounted, remove all protective wrapping, and install plastic beauty caps.

Sit back and admire what you have accomplished in life. Your awning is certainly a product of status. The awning awaits you, your friends, and loved ones, for many years of enjoyment.

Assembly of Spliced Awnings

Any awnings over 23' wide will be delivered in two pieces. There will be some additional work involved in putting the two pieces together. In this case the framework is assembled at the factory, and then taken apart for shipping. The splices will match up perfectly.

The roller tube, square bar, and front bar have joiners for easy splicing. The splices are typically attached with $\frac{3}{16}$ " diameter pop rivets, supplied by the factory. A pop rivet gun can be purchased at your local home improvement center.

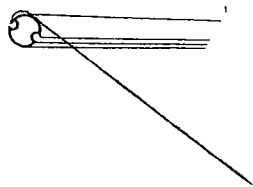
Start by clearing an area large enough to accommodate the length of your awning. Try to use an open area so you can move around comfortably. A grassy yard is perfect, because it will protect the aluminum framework and fabric from being abraded.

WARNING! DO NOT CUT THE HOLD BACK TAPE ON THE LATERAL ARMS UNTIL THE FABRIC COVER IS INSTALLED. THE ARMS ARE SPRING LOADED, AND CAN CAUSE BODILY INJURY.

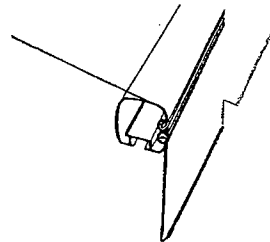
DO NOT MOVE ANY ARM BRACKETS OR FRONT BAR ATTACHMENTS. THESE ARE ALL PRE-SET AT THE FACTORY. MOVING THESE BRACKETS CAN CAUSE THE AWNING NOT TO ROLL IN OR OUT PROPERLY.

Insert the roller tube, square bar, and front bar splices into there matching parts. Once all of the pre-drilled holes are lined up, insert the pop rivets. **NOTE:** You will have to draw the pieces together tightly to get the pop rivet holes to line up. Once you have all of the pop rivets set, your frame assembly is complete.

Now you are ready to install the fabric onto the frame. Start by removing the roller tube bracket at the idler end. (This is the end opposite the gear or motor end.) Remove the round pin gudgeon/tube from the roller tube bracket. This will allow you to slide the fabric rope line into the roller tube. Insert the other rope line into the top channel of the front bar. This will require two people. (One to feed the rope lines, and one to pull the rope lines.) The person feeding needs to be careful not to snag the fabric on sharp corners of the framework. Once the rope lines are fully inserted, roll the fabric onto the roller tube. The fabric must come off of the top side of the roller tube. Now that the fabric is rolled onto the tube, put everything back together as you found it. Tighten the roller tube bracket back into place. **Note:** The center support roller assembly may need to be adjusted, after you have set desired pitch. The fabric should glide out of the front opening of the center support, without the top or bottom of the "C" rubbing on the fabric cover. It is now time to install the valance. (Refer to Installing the Valance section.)



Roller Tube



Front Bar

Now that the fabric is installed securely onto the fame, cut the arm hold back tapes.

You are now ready to hang your awning. (Refer to Hanging the Awning section.)

Once you have ran your awning in and out a couple of times, insert the plastic fabric locks and screws into the front bar and roller tube. This will lock the fabric in place to prevent the fabric from walking left or right on the roller tube. (Refer to Installing the Valance section for more detail on fabric locks.)

Limit Settings for Motors

The limits are not set at the factory if the awning came in two pieces. Since final assembly is done on the job sight, you will have to do this once the motor is energized. Refer to the motor instructions supplied with the unit. Note: Be careful when setting the inbound limits. If the motor winds too far in without stopping, IT WILL CAUSE DAMAGE TO THE RETRACTABLE AWNING. Have someone ready to flip the switch to the off position before this happens.

Automation

Refer to supplied instructions for final electrical hook-up, and operation of automation accessories.

Maintenance

Your lateral arm retractable awning is virtually maintenance free. Occasionally plastic moving parts will dry out and squeak. Simply identify where the noise is coming from, and use a spray silicone to help parts glide smoothly. In coastal areas where salt is present in the air, can cause the paint to oxidize. If this becomes noticeable, simply apply a good car wax to the aluminum. (Do not let the wax get on the fabric.) The fabric comes with a factory, water and mildew repellent finish. When dust or dirt becomes noticeable, just wash it down with your water hose. (Do not let water collect on the awning cover.) If major cleaning is needed, consult with your local dealer for recommendations.

Safety

Always exercise common sense with your retractable awning. If your awning is motorized with a sun and, or wind sensor, do not fully trust the settings. It will take several weeks of monitoring how your awning reacts to certain winds and sun. Through your persistence of tweaking the sensitivity settings of the anemometer, you will eventually be able to trust the workings of these safeguards. Sun and wind sensors are only safeguards. They are not full proof. If you feel uncomfortable sitting under your awning because of high winds bellowing the fabric, it is more than likely to windy for the awning to be extended. **RETRACT THE AWNING IMMEDIATELY! Remember, your awning is sold for sun protection only. The awning should never be left out in any type of rain. Water can pool on the fabric cover, and cause extensive damage to the workings of the awning, building, and, or persons under the awning.**

Tools Needed for Installation

Tape measure

Stud finder

Drill Motor

1/8" drill bit for pilot holes

Chalk line or laser level

Box knife for removal of packaging

Hammer and wood block or rubber mallet

8mm open end wrench or Crescent wrench

6mm Allen wrench

13 mm open end wrench or Crescent wrench

3/4" open end wrench or Crescent wrench

Phillips head screw driver

3/8" lag bolts for wall brackets X 3 1/2"- 5" (depending on mounting situation)

1/2" lag bolts for ceiling brackets X 3 1/2" – 5" (depending on mounting)

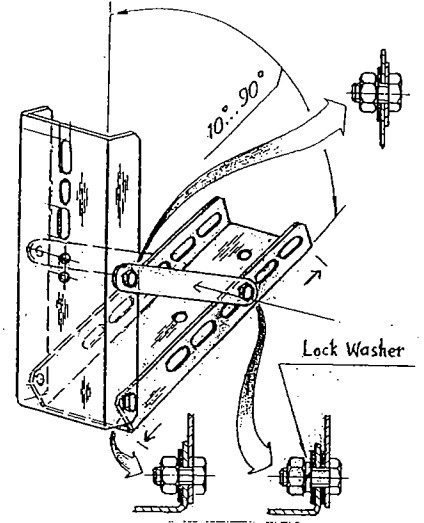
Drill bits for lags, depending on what size used

Ratchet set

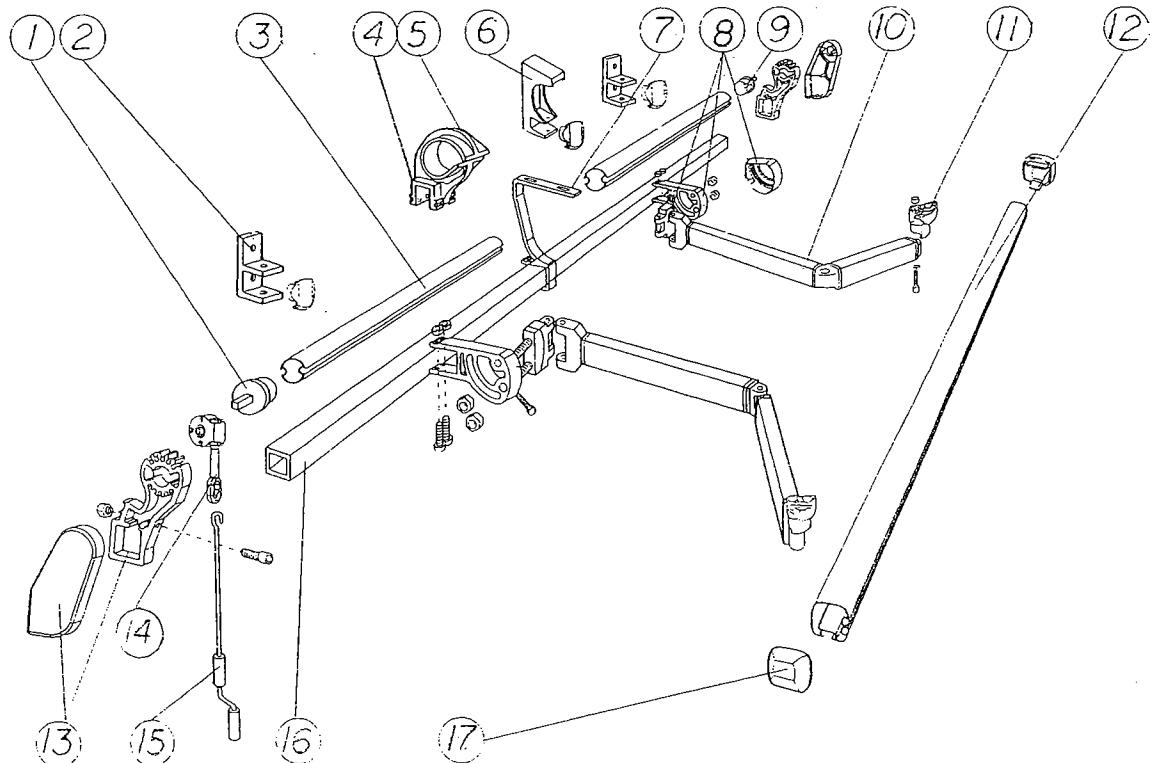
Friends or family to help with installation

Retractable Awning Parts List

1. Square pin gudgeon
2. Extruded wall bracket
3. Roller tube
4. Center support bracket
5. Center support roller assembly
6. Universal (ceiling) bracket
7. Protective hood bracket
8. Arm bracket assembly & end cap
9. Round pin gudgeon
10. Lateral arm
11. Front bar attachment
12. Front bar
13. Roller tube bracket & end cap
14. Gear
15. Crank handle
16. Square bar
17. Front bar end cap



Adjustable Roof Bracket



Limited Warranty



This limited warranty is valid only if a copy of the invoice for the item purchased is submitted showing date of original purchase.

What is Covered? This limited warranty covers the fabric becoming unserviceable because of loss of color or strength from normal usage and exposure conditions, including sunlight, mildew and atmospheric chemicals. Consumer is responsible for normal care and cleaning of the fabric. This warranty covers fabric only. Glen Raven's liability is expressly limited to this warranty.

How long is the Coverage Period? This limited warranty coverage runs for five years from the date of original installation.

What will Glen Raven Do? Glen Raven will supply new fabric free to replace the fabric which becomes unserviceable.

How Can You Get Service? Call the dealer or retailer from whom you purchased the product, to inspect the claim. They, in turn, will contact the manufacturer of the item purchased. The manufacturer will then contact Glen Raven and secure replacement fabric for you.

Care & Cleaning



Sunbrella® fabric should be cleaned regularly before substances such as dirt, roof particles, etc., are allowed to accumulate on and become embedded in the fabric. The fabric can be cleaned without being removed from the installation. Simply brush off any loose dirt, roof particles, etc.; hose down and clean with a mild solution of natural soap in lukewarm water (no more than 100 degrees F.). Rinse thoroughly to remove soap. **DO NOT USE DETERGENTS.** Allow to air dry.



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**DIKLON 32 Fabrics
5 year Limited Warranty**

DIKLON 32, 100% Solution-dyed acrylic, is warranted for five years against rot, mildew, and variations of dimensional stability and color under the following conditions:

- The fabric must be properly installed, utilized and maintained. The warranty does not apply against deteriorations of any kind due to abusive use, malfunction, negligence, vandalism, accidental burns, perforations, or acts of God.
- Dimensional stability is guaranteed to remain at plus or minus one percent or less in applications under proper installation and careful use.
- While all color pigmentations fade eventually, the DIKLON 32 color fastness is guaranteed to remain within the standards set under normal conditions of exposure and atmospheric chemical pollution.
- Normal wear, weather soiling, or stains from environmental pollution or other sources are not covered.
- The warranty, if applicable, is limited to the replacement of the fabric free of charge. Frames, systems, or labor are not covered by this warranty.
- **DICKSON MAKES NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSES WHATSOEVER WITH RESPECT TO THE GOODS BEING SOLD.**
- **THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE OF THIS AGREEMENT.**
- The warranty is valid for five years from original installation date providing the attached coupon is filled out and returned within 30 days of installation to:

DICKSON ELBERTON MILLS, INC.

P.O. Box 6107, 120 Seaboard Street, Elberton, GA 30635