

Safe Removal of the Shade Canopy

Necessary Care: It is important to take necessary care when handling the fabric during removal and installation to prevent damage to the fabric as well as SAFE control of the fabric in a breeze or wind. The fabric is tough and engineered for use as a shade, but it can tear or cut when or if pulled over a snag or sharp item; it can puncture from bolts or other protruding objects; and it can melt from objects such as like cigarettes, matches, hot torch tips, sparks and the like. In addition, care must be exercised to avoid the fabric hooks after the fabric is unhooked from the elbow corners and sides of the structure where there are intermediate supports. It is best to wrap any connected mounting hardware to prevent it from harming the fabric.

Proper and Safe Handling: Based on the size of the canopy, several persons may be needed to properly and safely handle the fabric during the uninstalling process. You will need several commercial ladders or other means to work safely at heights such as scissor lifts, etc. It is advised that you pad the post side of the ladder and tie the ladder to the post. The pad is to protect the post finish. Also keep in mind that every 100 square feet of fabric (10' X 10') weighs approximately five pounds; a large canopy can get heavy fast. For proper control of the fabric, read below. It is best to remove the fabric on a still day. ***Do not attempt to remove the canopy in strong or gusty winds.***

Uninstalling

Refer to your installation instructions to determine which style elbows (corners) are installed on your structure. To uninstall the canopy, follow your installation structures in reverse. ***Do not attempt to remove the canopy in strong or gusty winds.***

For Shade Structures with Standard Elbows

Loosen the turnbuckle several turns in order to put enough slack in the cable to allow the fabric and cable to unhook from all the elbow hooks. Attach 3/8" or larger ropes to each corner of the fabric and cable before unhooking to secure and properly control the fabric from ground level. If uninstalling in breezy conditions, choose the windy side of the fabric and tie these corners to the posts with the ropes with enough slack to allow for unhooking the fabric from the structure. These ropes are to prevent the shade from flying away in the breeze and to help prevent injury to ground personnel. Once the corners have been secured to the posts, unhook the fabric and cables from each corner.

On the side away from the wind, release the corners of the fabric and cable and have a person hold on to each rope. It may help to wrap the rope around a column to help hold it from getting caught in the wind. Fold the fabric back away from the hooks. Now it will be necessary to remove the cable clamps to allow the cable to be free from the structure and the turnbuckle. If the cable ends are frayed, wrap them with tape. It is usually not necessary nor is it recommended that the cable be removed from the canopy. With a person on each rope, starting at the windy side, gently pull the canopy down in between the framework of the structure. The side away from the wind can be guided with the ropes toward the persons pulling the canopy down.

NOTE: It is important when reinstalling the canopy, that it is put back in its original orientation to the structure. Starting at the turnbuckle corner, the fabric and cable corners should be returned to their original positions.

For Shade Structures with Glide Elbows™

Remove the protective covers from the ends of the glide elbows. Then, using the proper wrench, turn the hex nuts on the end of the Glide Elbow to run the glide hooks to their top most position. Do not loosen the cable clamps, leave the cable intact. Attach 3/8" ropes to each corner of the fabric and cable before unhooking to secure and properly control the fabric from ground level. If uninstalling in breezy conditions, choose the windy side of the fabric and tie these corners to the posts with the ropes with enough slack to allow for unhooking the fabric from the structure. These ropes are to prevent the shade from flying away in the wind and to help prevent injury to ground personnel. Once the corners have been secured to the posts, unhook the fabric and cables. On the side away from the wind, release the corners of the fabric and cable and have a person hold on to each rope. Fold the fabric back away from the hooks. It is a good idea to put the Glide Elbow protective covers back in place. With Glide Elbow installations it is not necessary to loosen or remove the cable clamps nor to remove the cable from the canopy. If the cable ends are frayed, wrap them with tape.

NOTE: When uninstalling the canopy, mark or identify the corner of origin in such a way that when reinstalling the canopy, it is put back in its original orientation to the structure. The fabric and cable corners should be returned to their original positions when reinstalling the canopy. The cable and fabric should tighten properly when the glide elbows are adjusted down into their tension positions.

For Shade Sails Equipped with Fans

Loosen the adjustable threaded rod several turns in order to put enough slack in the cable to allow the shackle pin to be removed (do not remove the pins until the fabric corners have been secured with ropes). Attach 3/8" or larger ropes to each corner of the fabric and fan before unhooking to secure and properly control the fabric from ground level. If uninstalling in breezy conditions, choose the windy side of the fabric and tie these corners to the posts with the ropes with enough slack to allow for unhooking the shackle from the structure. These ropes are to prevent the shade from flying away in the breeze and to help prevent injury to ground personnel. Once the corners have been secured to the posts, unhook the shackles and lower the fabric and cable to the ground.

Reinstalling Hints Using the same rope technique, install from the windy side (if it is breezy) making sure to secure these ropes to the posts. Then, throw the remaining corner ropes over the structure and gently pull the canopy into position. The cables and fabric corners can now be fastened on the hooks (and cable guides if so equipped). Next reinstall the clamps if applicable and tightened the cable with the turnbuckle or the Glide Elbows. Do not attempt to install the canopy in strong or gusty winds.

**For visual references on how to uninstall the shape canopy,
refer to the diagrams on pages 4, 5, and 6.**

Glide Elbow™ Fabric Release *Step-by-Step Instructions*

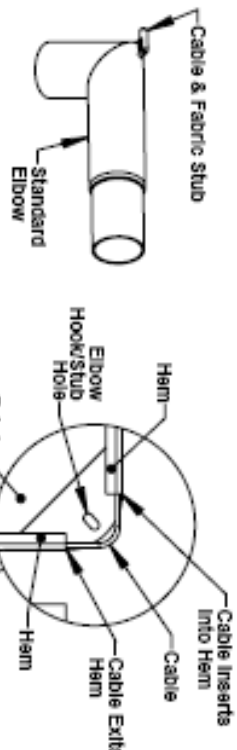
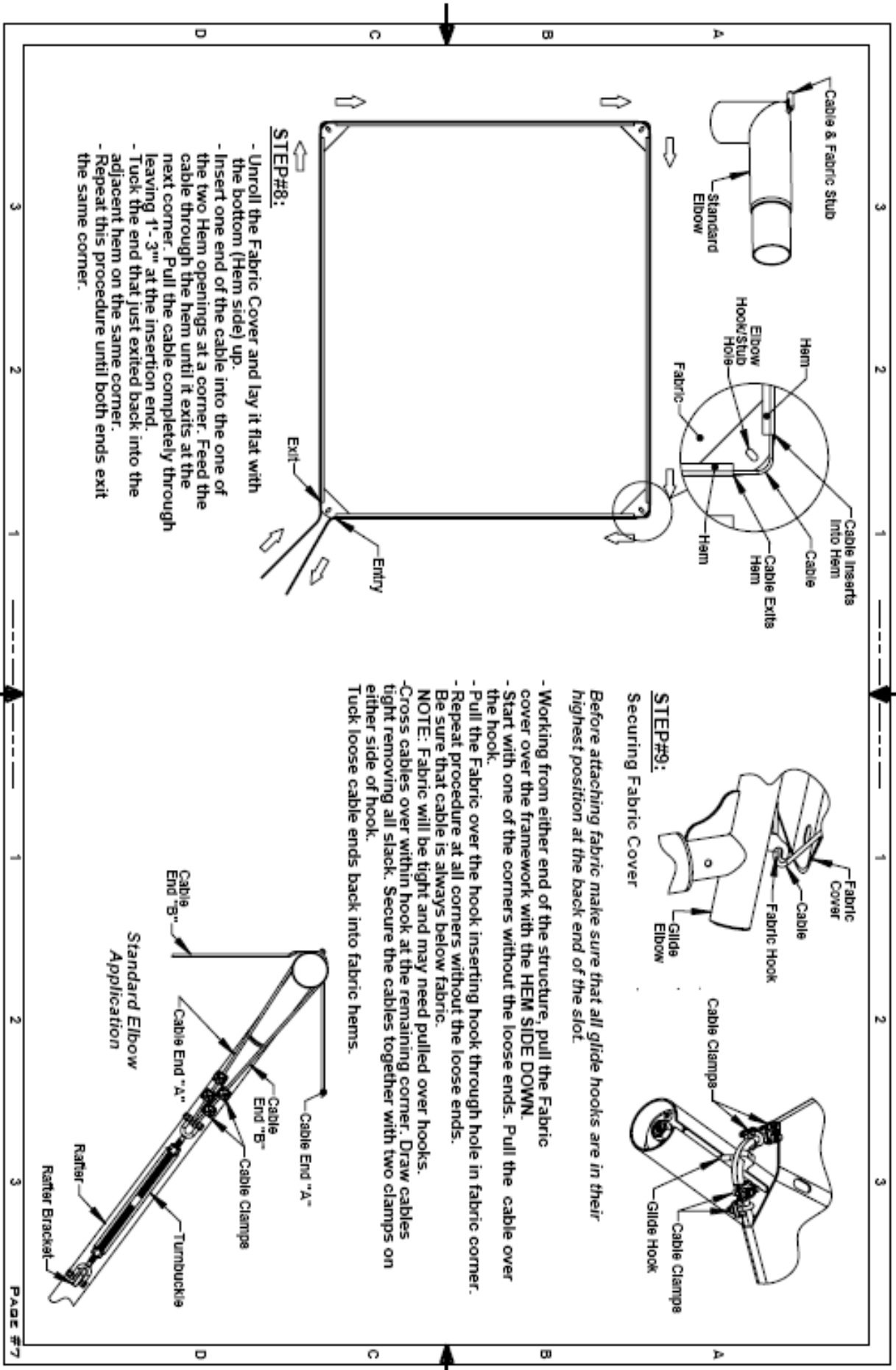
- Needed Supplies**
- 2 individuals
 - 2 ladders
 - 1/4 hex key
 - wrench or cordless drill

Fabric Removal

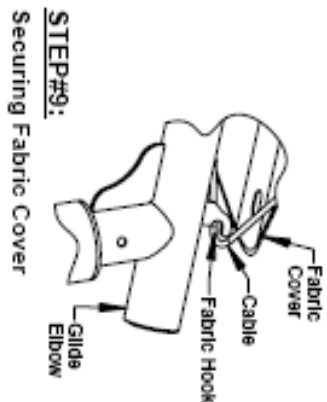
- STEP 1** Before removal, make sure the area where the fabric will land is clean.
- STEP 2** Mark one corner of the post and fabric with a corresponding letter or other marking so the shade goes back on correctly.
- STEP 3** Using the 1/4 hex key, loosen and remove the glide elbow cover plate.
- STEP 4** Activate the glide elbow using a socket wrench or a cordless drill. This action turns the threaded rod connection nut counter clockwise until the protrusion fabric hook moves to loosen the fabric enough to remove.
- STEP 5** Repeat on all corners.
- STEP 6** Lower the fabric and fold or roll it for proper storage.

Reinstall Fabric

- STEP 1** To reinstall fabric, unfold it and properly identify the marked corner with the corresponding column and position the fabric.
- STEP 2** Tie rope to two corners and throw the rope over the frame.
- STEP 3** Pull the rope to adequately raise the fabric back into place.
- STEP 4** Spread the fabric over the frame.
- STEP 5** Attach the fabric to the corner and remove the rope.
- STEP 6** Activate the glide elbow by turning the rod connection nut clockwise until semi tight.
- STEP 7** Replace the cover plate and be sure to position the horizontal drain slit at the bottom of the pipe.
- STEP 8** Tightly secure the hex nut.
- STEP 9** Repeat at each corner until the fabric is uniformly fitted back onto the frame.



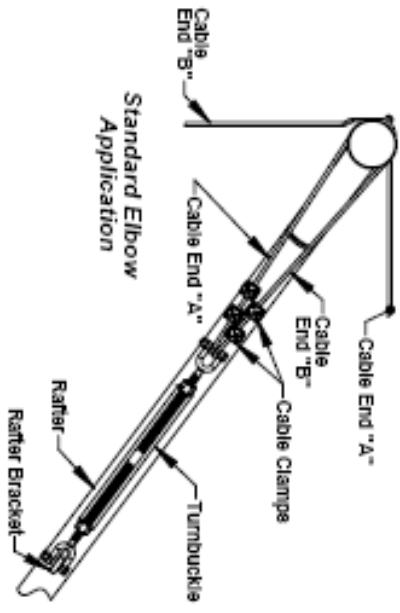
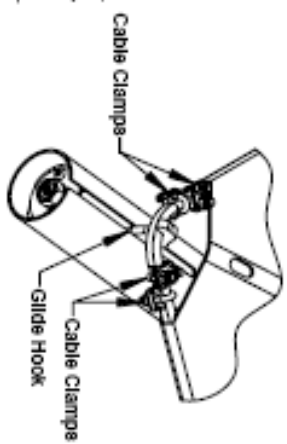
- STEP#8:**
- Unroll the Fabric Cover and lay it flat with the bottom (Hem side) up.
 - Insert one end of the cable into the one of the two Hem openings at a corner. Feed the cable through the hem until it exits at the next corner. Pull the cable completely through leaving 1'-3" at the insertion end.
 - Tuck the end that just exited back into the adjacent hem on the same corner.
 - Repeat this procedure until both ends exit the same corner.

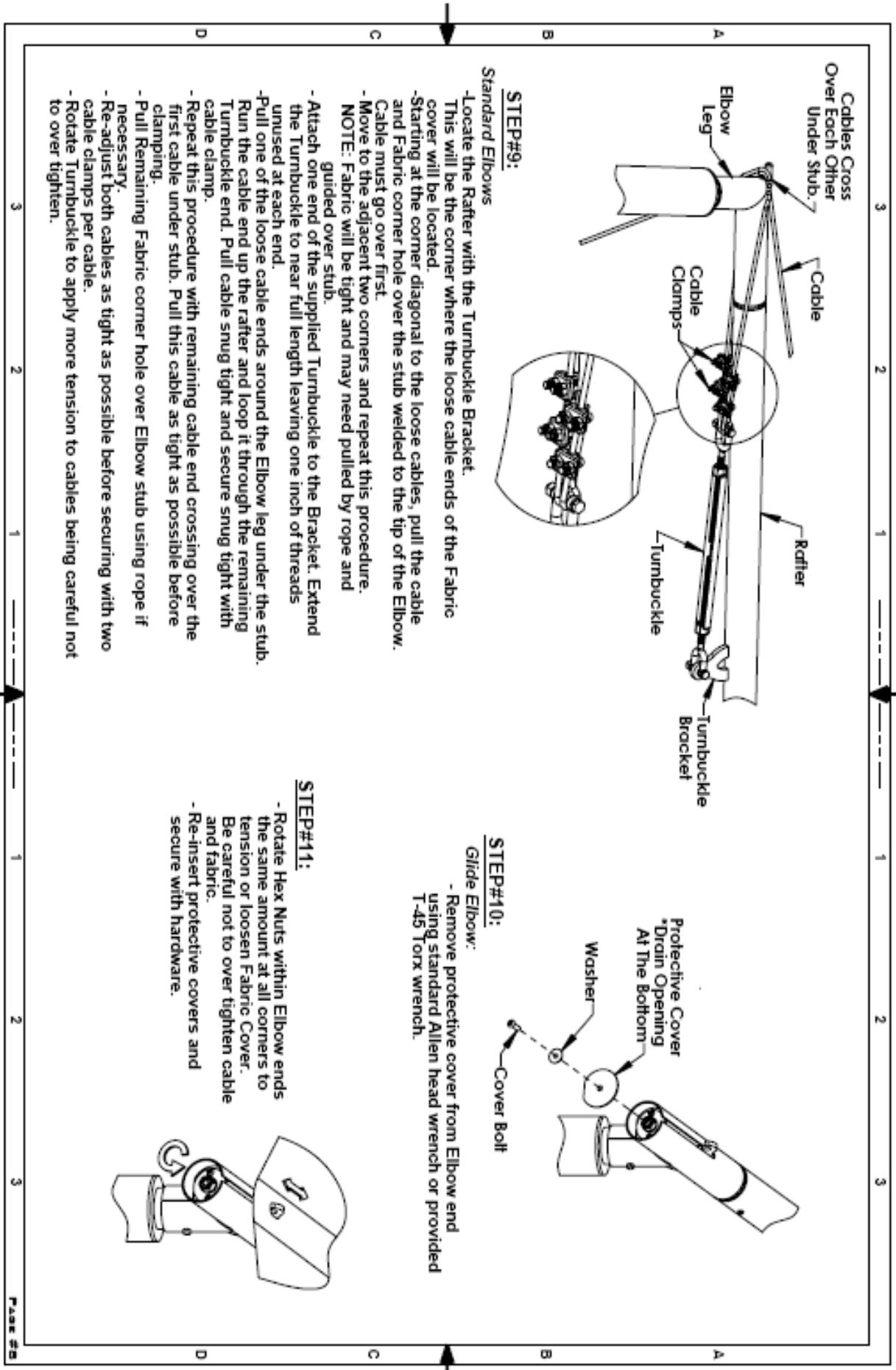


STEP#9:
Securing Fabric Cover

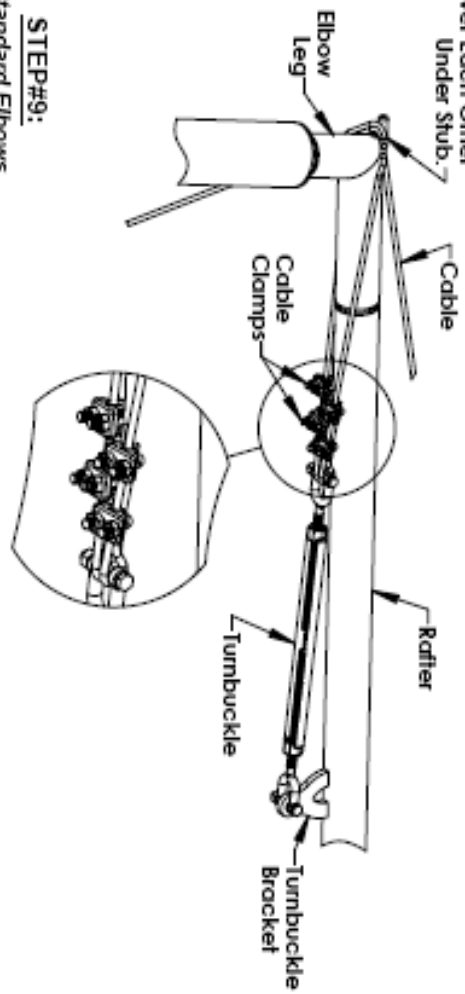
Before attaching fabric make sure that all glide hooks are in their highest position at the back end of the slot.

- Working from either end of the structure, pull the Fabric cover over the framework with the HEM SIDE DOWN.
- Start with one of the corners without the loose ends. Pull the cable over the hook.
- Pull the Fabric over the hook inserting hook through hole in fabric corner.
- Repeat procedure at all corners without the loose ends.
- Be sure that cable is always below fabric.
- NOTE: Fabric will be tight and may need pulled over hooks.
- Cross cables over within hook at the remaining corner. Draw cables tight removing all slack. Secure the cables together with two clamps on either side of hook.
- Tuck loose cable ends back into fabric hems.





Cables Cross Over Each Other Under Stub.



STEP#9:

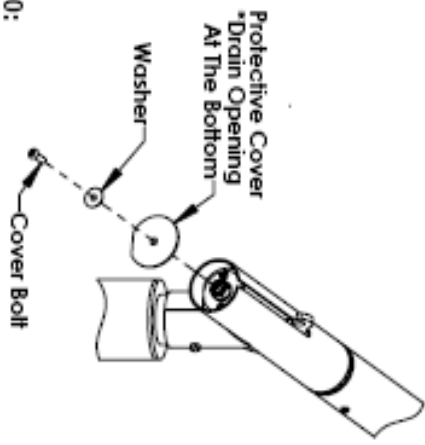
Standard Elbows

- Locate the Rafter with the Turnbuckle Bracket. This will be the corner where the loose cable ends of the Fabric cover will be located.
- Starting at the corner diagonal to the loose cables, pull the cable and Fabric corner hole over the stub welded to the tip of the Elbow. Cable must go over first.
- Move to the adjacent two corners and repeat this procedure.
- NOTE:** Fabric will be tight and may need pulled by rope and guided over stub.
- Attach one end of the supplied Turnbuckle to the Bracket. Extend the Turnbuckle to near full length leaving one inch of threads unused at each end.
- Pull one of the loose cable ends around the Elbow leg under the stub. Run the cable end up the rafter and loop it through the remaining Turnbuckle end. Pull cable snug tight and secure snug tight with cable clamp.
- Repeat this procedure with remaining cable end crossing over the first cable under stub. Pull this cable as tight as possible before clamping.
- Pull Remaining Fabric corner hole over Elbow stub using rope if necessary.
- Re-adjust both cables as tight as possible before securing with two cable clamps per cable.
- Rotate Turnbuckle to apply more tension to cables being careful not to over tighten.

STEP#10:

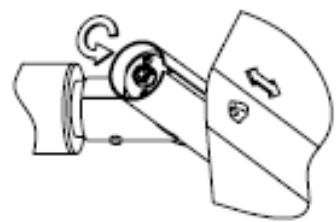
Glide Elbow:

- Remove protective cover from Elbow end using standard Allen head wrench or provided T-45 Torx wrench.

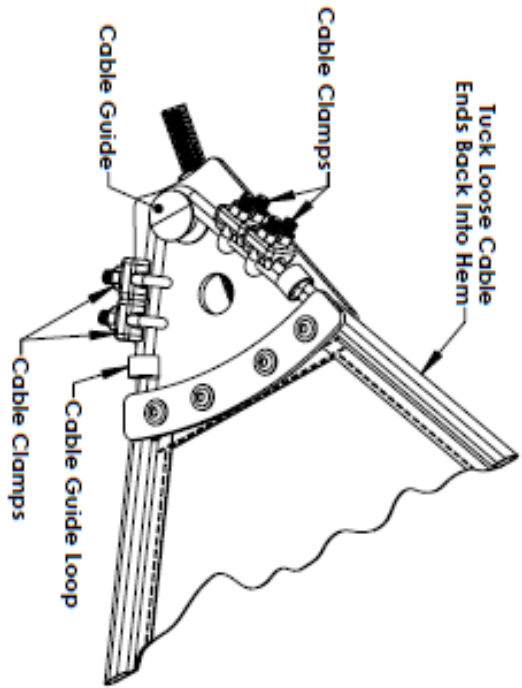
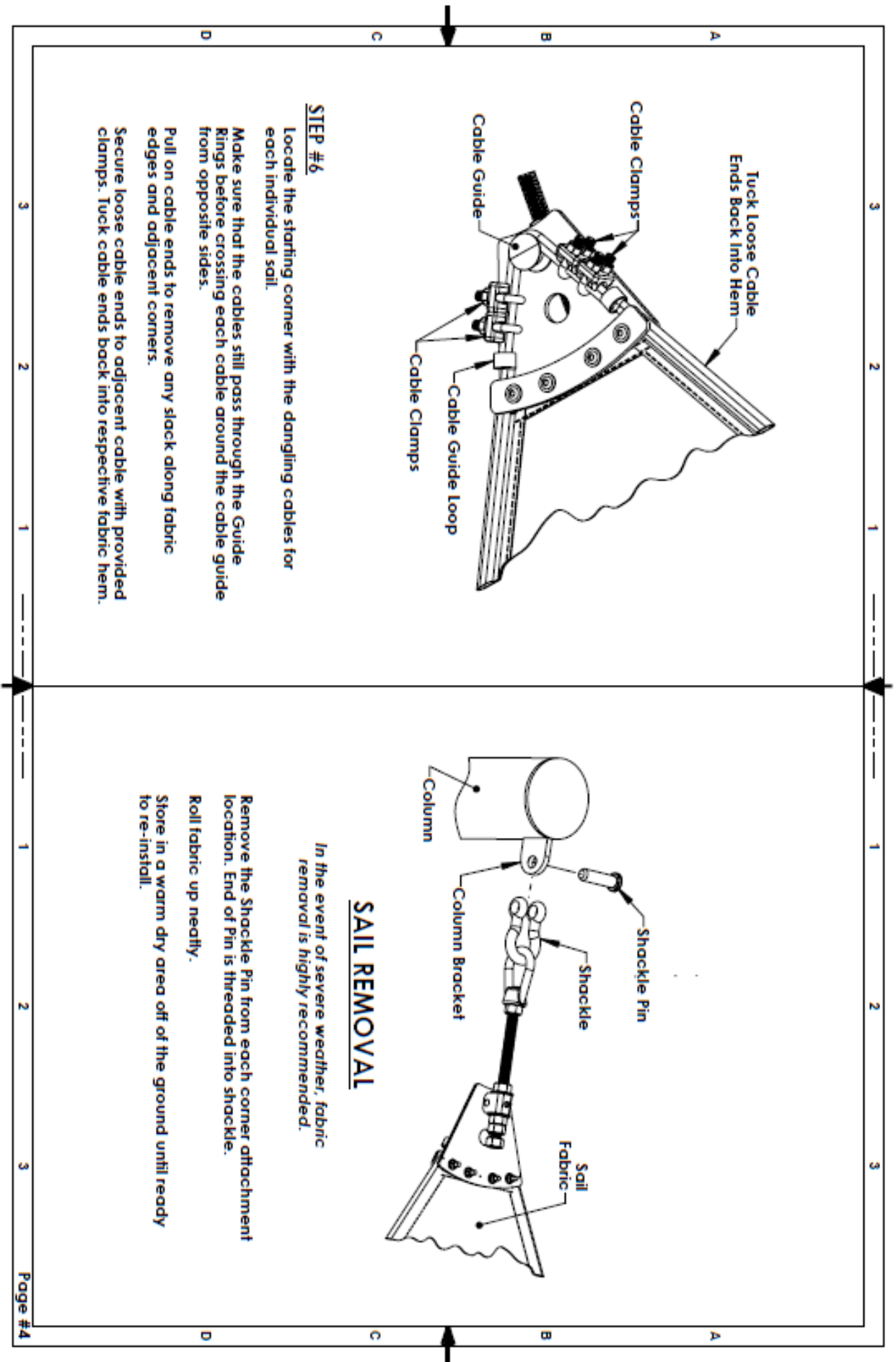


STEP#11:

- Rotate Hex Nuts within Elbow ends the same amount at all corners to tension or loosen Fabric Cover. Be careful not to over tighten cable and fabric.
- Re-insert protective covers and secure with hardware.



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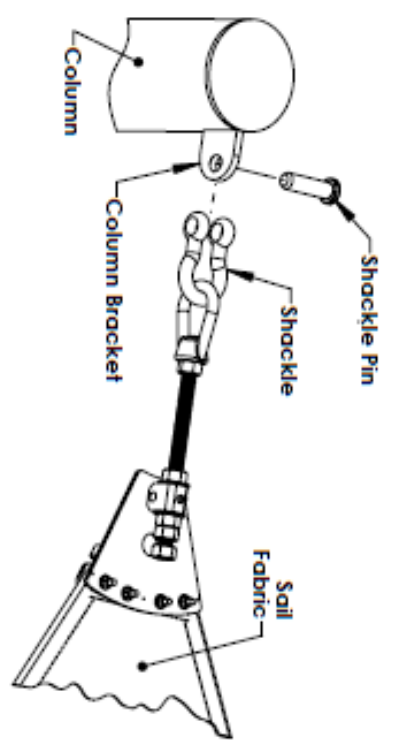
STEP #6

Locate the starting corner with the dangling cables for each individual sail.

Make sure that the cables still pass through the Guide Rings before crossing each cable around the cable guide from opposite sides.

Pull on cable ends to remove any slack along fabric edges and adjacent corners.

Secure loose cable ends to adjacent cable with provided clamps. Tuck cable ends back into respective fabric hem.



SAIL REMOVAL

In the event of severe weather, fabric removal is highly recommended.

Remove the Shackle Pin from each corner attachment location. End of Pin is threaded into shackle.

Roll fabric up neatly.

Store in a warm dry area off of the ground until ready to re-install.

Proper Care and Maintenance of the Shade Canopy

Things to Avoid

SNOW, ICE, AND HIGH WINDS: Remove the canopy in winter conditions as ice and snow loads are not covered by the warranty. The same goes for winds in excess of hurricane force 1.

SHARP OBJECTS: Always avoid dragging the fabric across surfaces, etc. Roll or fold the fabric and carry it. Avoid sharp objects, bolts, snags, and other protrusions including mounting hardware.

OBSTRUCTIONS: Keep foliage, such as tree limbs, shrubbery, and bushes, trimmed back and away from fabric at least three to four feet.

SOURCES OF HEAT: Avoid contact with heat sources such as hot lights, torches, and avoid using grills, etc. under the fabric or fireworks near the fabric.

SLACK CABLE IN CANOPY: Canopies with loose cables can fail.

Cleaning the Fabric

The fabric itself is generally maintenance free with the exception of necessary removal due to weather or seasonal requirements. The fabric does not harbor mildew or mold, but residues such as tree sap, leaves, bird droppings, dust and dirt may need to be removed. To clean the fabric, use water and mild soap. A soft mop or soft broom may also be used. Cleaners that do not contain hydrocarbons, solvents, bleach or ammonia may be used. Use of solvents, hydrocarbons, bleach, and ammonia type cleaners will void the fabric warranty. A pressure washer may be used if necessary using a wide-spray nozzle.

Cables and Hardware Replacement

It is recommended that the cables be replaced every 3 to 4 years or if corrosion is visible, whichever comes first. Canopy cables that are not maintained at optimum tension will be subject to shorter lifespans and potential failures earlier than our recommend cable replacement scheduling. The cable ends must be wrapped with tape to secure any wires; thus, preventing the wires from tearing the fabric. Taping must be done when removing old cable as well as when installing new cable. Clamps should be replaced when the cable is replaced. If the cable appears slack on a still day (no wind), immediately have the cable and clamps re-tightened by a qualified person. The cable should not be slack.

Glide Elbow™ Maintenance

Lubricate Glide Elbows™ annually and before operating. A waterproof grease is recommended such as a lithium-based grease or anti-seize thread lubricant.

Storage of the Fabric

Fabric must be stored in a clean, dry place free from snags, sharp edges, etcetera. The storage area must be rodent-free. Wrap all hardware fittings with rags or some other protector, as they can damage the fabric.