

# REPLACEMENT INSTRUCTIONS FOR AWNING

■ Fabric ■ Roller Tube ■ Torsion Assembly ■ Weathershield  
**For WeatherPro Awnings & Power Patio Awnings**

<b>Tools Required:</b>	Socket Wrench Set	Screw Drivers	Pop Rivet Tool	Pliers
	Electric Drill	Step Ladder	3/16" Drill Bit	End cap Guide
	3/16 x 3/8" Pop Rivet	Vise Grips®	7/64 "x 2-3/4" Cotter Pin	Wood Block
	Nylon Wire Ties			

## A. GENERAL INSTRUCTIONS

The Fabric Roller Tube Assembly (referred to in the instructions as a FRTA) consists of a vinyl or acrylic Fabric, Roller Tube, Torsion Assembly and Weather Shield.

These instructions will aid the service person to make repairs quickly and correct. The repairs must be made by a qualified service person. Read instructions **ENTIRELY** before attempting to make repairs on the product.

### ⚠ WARNING

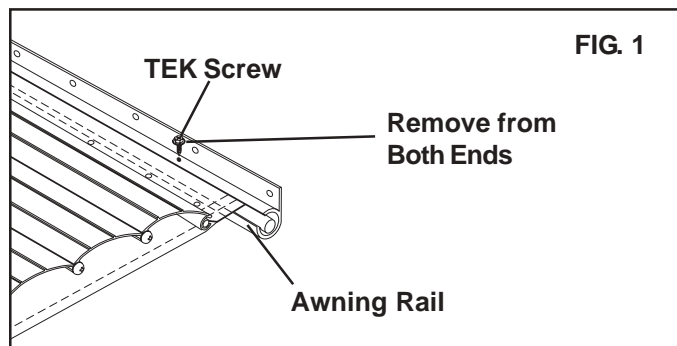
**These instructions must be read and understood before installation, adjustment, service or maintenance is performed. This unit must be installed by a qualified serviceman. Modification of this product can be extremely hazardous and could result in personal injury or property damage.**

## B. REMOVAL OF THE AWNING FROM THE COACH

1. In all instances of fabric, roller tube or weathershield replacement, it is necessary to unroll the fabric. A large clean and smooth work area is required to prevent damage to the fabric.

**Note:** If replacement of either torsion assembly is required awning removal from the coach is not necessary. Proceed to Sections "C" and "D".

2. Remove the TEK screws securing the awning fabric at each end of the awning rail. See FIG. 1.



3. Extend or open the awning two revolutions of the FRTA. This will allow for removal of top brackets and the FRTA.
4. Pin the left hand torsion. See Section C.
5. Disconnect the wire harness at the plug by the lower mounting bracket of the right arm assembly. In some installations the harness may be run through a hole in the side wall of the coach. If the hole is sealed, use a screw driver to dig out the sealant. Be careful not to damage wires or the wall, or the harness assembly out of the coach.

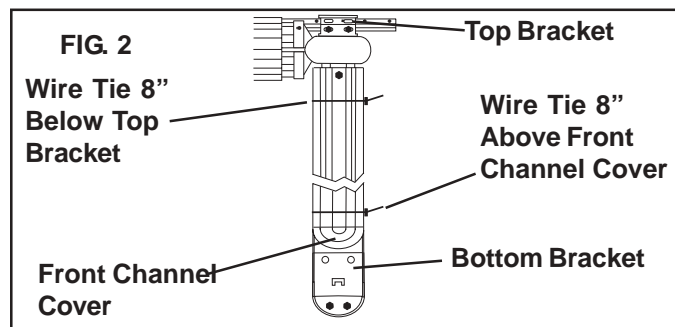
**Note:** In some installations the wind sensor wire is routed behind the right arm assembly. Be careful not to damage.

### ⚠ WARNING

**Arms under tension from the gas strut are dangerous. Use extreme care. If not controlled the arms will extend quickly. Keep hands and clothing clear of awning arms, as personal injury may result.**

6. The next two steps require three people. Loosen the lag bolts holding the top and bottom mounting brackets to the coach. Push the arm assemblies closed and wrap two heavy nylon wire ties around each arm assembly to prevent them from extending during removal of the FRTA. One should be 8 inches above the front channel cover, and the other 8 inches below the top mounting bracket. Do both arms assembly. See FIG. 2 (WeatherPro Hardware shown).

**Note:** Bottom Brackets and Back Channel may be riveted.



7. While lifting the arm assemblies to support the FRTA, remove the lag bolts holding the top and bottom mounting brackets to the side wall of the coach. Slowly walk the awning fabric out of the awning rail.
8. Lay the FRTA on a large clean work area to prevent damages.

9. Before removing the arm assemblies, you must read and understand Sections "C" and "D".

## C. REMOVAL OF THE LEFT HAND TORSION

### **⚠ WARNING**

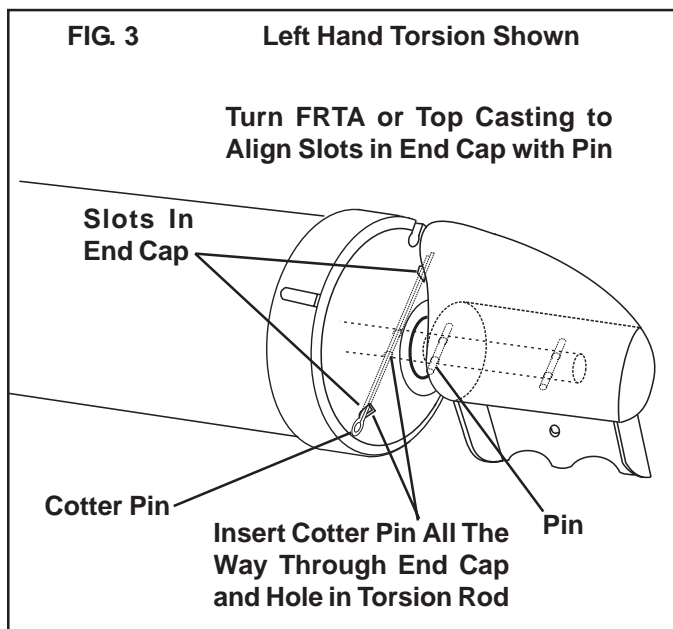
**Use extreme care. Springs under tension are dangerous. If not controlled they will unwind quickly. Keep hands and clothing clear of top casting, as personal injury may result.**

**Note:** If the awning is installed on a coach, complete the following steps on a step ladder with the FRTA extended two turns from the awning rail.

### **⚠ WARNING**

**Severe injury can result from the rapid spin of of the top casting. NEVER use bare hands to handle a top casting under spring tension.**

1. Before the left arm assembly is removed the torsion must be pinned to prevent uncontrolled unwinding of the spring.
  - a. Turn top casting or FRTA until the pin is parallel with the two slots in the end cap. See FIG. 3.

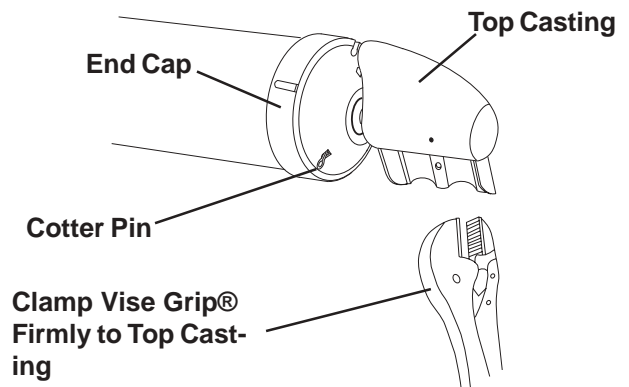


- b. To pin the left hand torsion insert a 7/64" x 2-3/4" cotter pin through the end cap and torsion rod. Put a piece of tape over the head of the cotter pin to prevent it from dropping out. See FIG. 3.

**Note:** Do step "c" if FRTA is installed on coach. If not installed on coach proceed to step "d".

- c. Insert a wood block, between front and back channel to space the FRTA 2 - 3 inches from the coach. Push arm assembly closed. Wrap a nylon wire tie around arm to keep it from extending.

**FIG. 4 Left Hand Torsion Shown**



- d. Remove Hex Head 1/4-20 x 1/2" screw that attaches arm assembly to top casting. Lift casting out of arm assembly.
- e. Clamp a Vice-Grip® firmly to the top casting. See FIG. 4.
- f. Keep a tight hold onto the Vise Grip® while the cotter pin is pulled out of the end cap.
- g. Slowly unwind the spring tension, do not allow rapid spin off.
- h. Use the electric drill with a 3/16" bit to remove the 3 pop rivets that secure the end cap to the roller tube. Pull the torsion out of the tube and remove any burrs or rivet bodies.

**Note:** If the awning is installed on a coach, complete the following steps on a step ladder with the FRTA extended two turns from the awning rail.

## D. REMOVAL OF THE RIGHT HAND DRIVE ASSEMBLY

1. When the removal of the Right Hand Drive Assembly is necessary, the left hand must be pinned, or the FRTA will unroll and the spring tension will be lost. See Section "C", Step 1, paragraphs "a" and "b".

**NOTE:** Do step 2 if FRTA is installed on coach. If not installed on coach proceed to step 3.

2. Insert a wood block, between front and back channel to space the FRTA 2 - 3 inches from the coach. Push arm assembly closed. Wrap a nylon wire tie around arm to

keep it from extending.

3. Remove Hex Head 1/4-20 x 1/2" screw that attaches arm assembly to top casting. Remove arm assembly.
4. Use the electric drill with a 3/16" bit to remove the 3 pop rivets that secure the end cap to the roller tube. Pull the drive assembly out of the tube and remove any burrs or rivet bodies.

## E. HOW TO REMOVE FABRIC FROM ROLLER TUBE

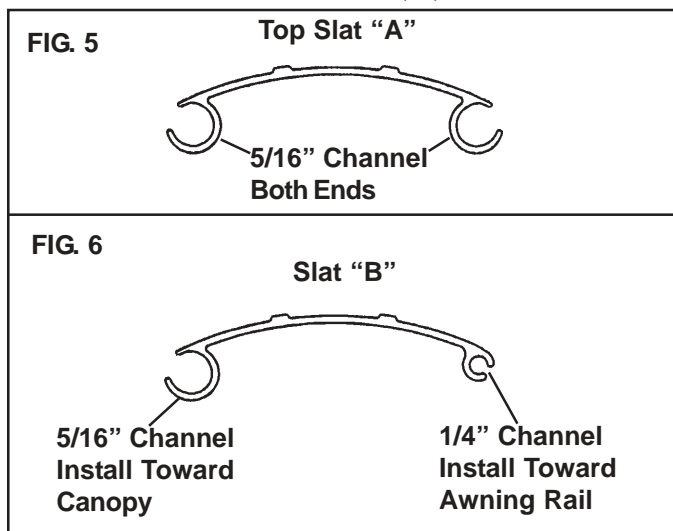
1. Remove awning from coach. See Section "B".
2. Remove both torsions. See Sections "C", and "D" for drive assembly removal.
3. Roll the awning completely out on a clean smooth surface.

4. With the awning laying flat, slide the roller tube out from fabric.

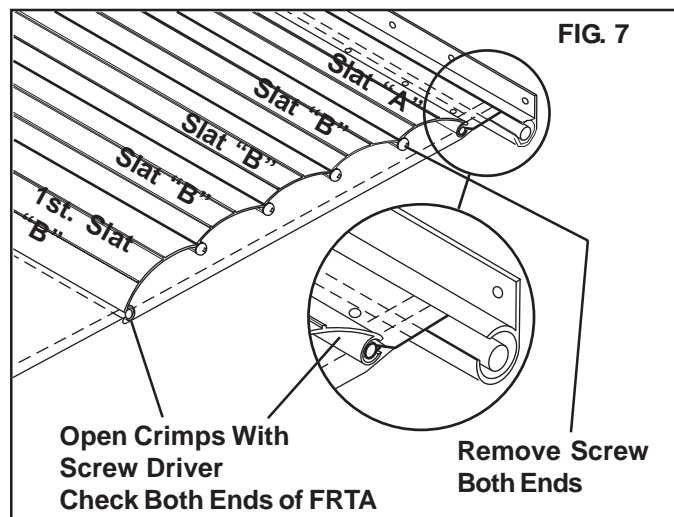
**Note:** Use needle nose pliers to remove the polyrope from the groove(s) of the roller tube before removing fabric.

## F. WEATHERSHIELD ASSEMBLY REMOVAL AND REPLACEMENT (on WeatherPro only)

1. Remove the two screws (one on each side) that lock slat "A" to first slat "B". See FIG. 5, 6, & 7.



4. Use a small file and round ends of the groove in the 5/16" end of first slat "B" and "A". See FIG. 5, 6 & 7.
5. Slide first slat "B" of the connected weathershield assembly (if slat "A" was removed in Step 1, it should be replaced) onto the polyrope in fabric located approximately 12" from awning rail end; and, at the same time, slide slat "A" onto polyrope located 1" from awning rail. See FIG. 5, 6 & 7. Slide the weathershield onto both ropes at the same rate.



2. Use a screw driver to spread open the crimp in the slats. Slide the top slat "A" off slat assembly and fabric. Keep for reinstall in Step 5 (unless new slat assembly is being installed). Hold "B" (toward canopy) to allow the slat assembly to slide off fabric. If new fabric is being installed, lay new fabric over old one. Check for correct size and color.
3. The new replacement weathershield/fabric will be installed as shown in FIG. 7. Place connected slat assembly on top of fabric.

**Note:** Make sure the 1/4" groove on all "B" slats are toward awning rail. If new weathershield assembly is being installed, it is shipped with 6 slats. Remove the first slat "B", it is not needed.

6. Crimp both channels of the weathershield about 3" from end of slats onto polyrope to secure the weathershield assembly to the fabric. It is only necessary to crimp weathershield on one end of the FRTA. See FIG. 7.

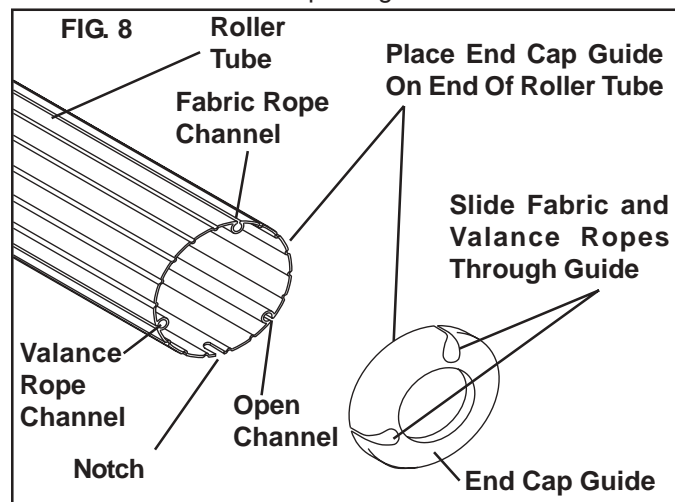
## G. INSTALLING FABRIC ON ROLLER TUBE

1. Unfold the new fabric and lay it on top of the existing fabric in the **exact same position**. Be sure the new fabric is the correct size and color. If roller tube is being replaced, make sure it is the correct length and position it with the notch located as shown in FIG. 8.
2. Dometic requires the use of the end cap guide to prevent damages to the fabric, when replacing the fabric/roller tube. Place the end cap guide (supplied with the replacement fabric/roller tube) on the end of the roller tube. The locating tab on the end cap guide is placed in the open (unused) channel of the roller tube. See FIG. 8.

**Note:** When changing the fabric, it is vital that the same groove(s) be used. This eliminates the need to drill any holes. On a new roller tube, the fabric rope is placed in the channel with the notch in its' edge (opposite the notch in the roller tube). See FIG. 8.

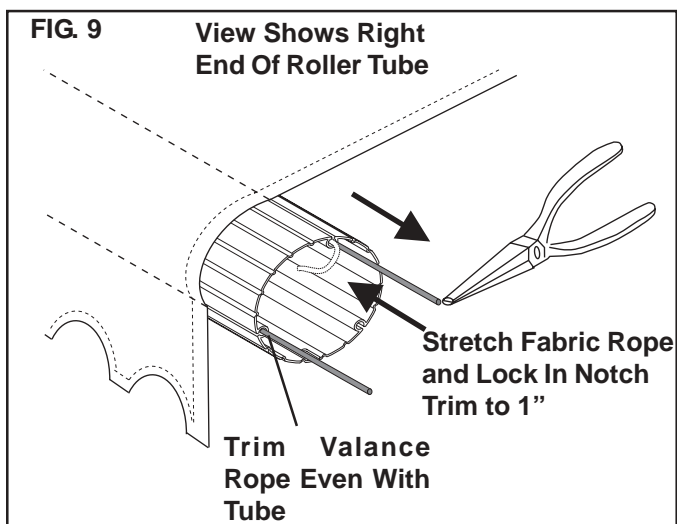
3. Guide the roller tube over the polyrope(s) of the fabric. Be careful not to damage the roller tube or the fabric.

4. Center the fabric on the roller tube and hand-roll the entire assembly in the same direction as the original fabric.
5. See Section "F" for Roller Cover replacement Steps 3 to 6. and Section "H" Replacing torsion assemblies.

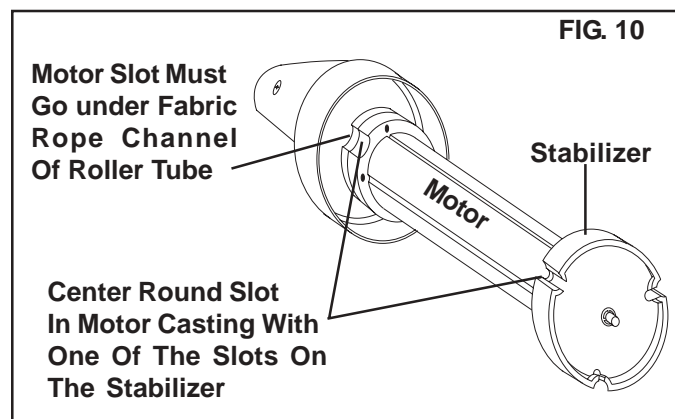


## H. REPLACING TORSION ASSEMBLIES

1. The polyropes must be properly trimmed and secured to the roller tube; as it can interfere with the torsion and allow shifting of the fabric.
2. Use pliers to pull the fabric rope toward the center of the roller tube and push it back to lock it in the notch on the edge of the channel. Cut fabric rope 1" below channel. See FIG. 9.
3. Trim valance rope even with the edge of roller tube. See FIG. 9.



5. Install right hand drive torsion
  - a. New right hand drive torsions are shipped with the top casting and the stabilizer positioned for installation. If the torsion has been pre-installed it must be aligned before it is put into the FRTA.
  - b. Apply DC power directly to the drive assembly with the emergency harness or the control box. Allow the stabilizer to turn until one of the stabilizer slots is centered on the round slot in the motor casting. See FIG. 10.



4. Install left hand torsion
  - a. Slide left hand torsion assembly into left end of roller tube. Turn end cap until locating tabs are in place in the notch on the roller tube. This should align the open channel with the slot in the end cap.
  - b. Secure the end cap to the roller tube using three (3/16" x 3/8") pop rivets. See Section I Winding left hand torsion.

- c. When motor drive assembly is properly aligned as indicated in step "b", it is placed in the roller tube with the motor slot positioned under the channel with the fabric rope. See FIG. 9.
- d. Turn the end cap on the motor drive torsion until the rivet hole match the holes in the roller tube. Install the three 3/16" x 3/8" pop rivets to secure the torsion to the roller tube.

**Note:** FRTA's installed on the coach will require the motor drive torsion assembly to be operated until the top casting will slip easily into the arm assembly. This will align the top casting of the motor drive to the left hand top castings. The left and right arms must be parallel to each other.

## I. WINDING LEFT HAND TORSION ASSEMBLY

### **! WARNING**

**Use extreme care. Springs under tension are dangerous. If not controlled they will unwind quickly. Keep hands and clothing clear of top casting, as personal injury may result.**

**Note:** If the awning is installed on a coach, complete the following steps on a step ladder with the FRTA extended two turns from the awning rail.

### **! WARNING**

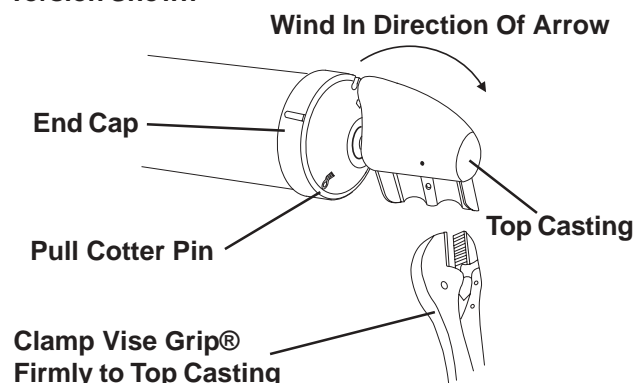
**Severe injury can result from the rapid spin of of the top casting. NEVER use bare hands to handle a top casting under spring tension.**

1. Clamp the Vise Grip® tightly to the top casting on the left hand torsion assembly.
2. Start with the Vise Grip® in the 6 o'clock position. Keep a firm hold onto the Vise Grip®. Slowly wind in the direction of the arrow 9 complete turns. See FIG. 11.

**Note:** If Awning is fully extended, wind the spring tension a total of 17 turns.

**Left Hand  
Torsion Shown**

**FIG. 11**



3. Turn top casting or FRTA until the pin is parallel with the two slots in the end cap. See FIG. 12. Insert a 7/64" x 2-3/4" cotter pin through the end cap and torsion rod. Put a piece of tape over the head of the cotter pin to prevent it from dropping out. See FIG. 12.
  4. Remove Vise Grip® from top casting and insert into arm assembly. Replace Hex Head 1/4-20 x 1/2" screw and tighten.
- NOTE:** If awning is not installed on coach. Install per the WeatherPro or Power Patio Awning installation instructions.
5. Remove 2-3/4" cotter pin and check operation of the awning.

**FIG. 12**

**Left Hand Torsion Shown**

**Turn Top Casting to Align Slots  
in End Cap with Pin**

