

REPLACEMENT INSTRUCTIONS ONE STEP AWNING

FABRIC

Tools and Supplies Required:

5 x 5/16" Bolt
Screwdriver
Electric Drill
Step Ladder
1" Wood Block

ROLLER TUBE

1/8 x 2" Cotter Pin
Pop Rivet Tool
Adjustable Wrench
3/16" x 3/8" Pop Rivets
End Cap Guide

TORSION ASSEMBLY

Wire Ties
Socket Wrench Set
3/16" Drill Bit

A. GENERAL INSTRUCTIONS

The Fabric Roller Tube Assembly (FRTA) consists of a fabric, a roller tube, and torsion assemblies. The FRTA is mounted onto a recreational vehicle with arms and brackets called hardware.

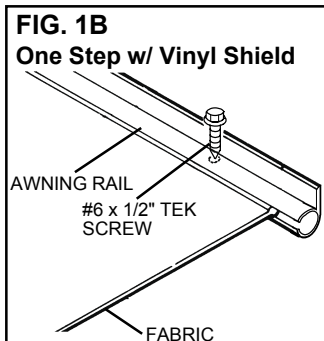
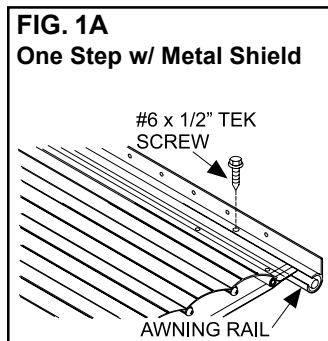
⚠ WARNING

These instructions must be read and understood before installation of this kit. This kit must be installed by a Dometic Service Center or a qualified service technician. Modification of this product can be extremely hazardous and could result in personal injury or property damage.

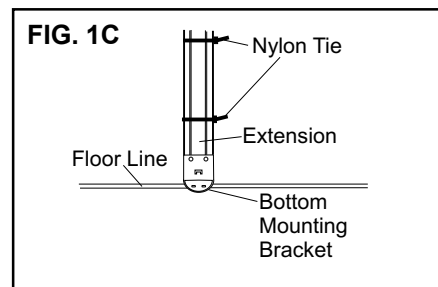
B. REMOVAL OF AWNING FROM COACH

Note: Awning removal from the coach is NOT necessary when replacing a torsion assembly. Proceed to Section C, Section D, and Section I.

1. In all instances of fabric or roller tube replacement, it will be necessary to have a large work area to allow complete unrolling of the awning. This work area must be clean and smooth so the fabric will not be damaged.
2. Remove the TEK screws securing the awning fabric at each end of the awning rail. See FIG. 1A & 1B.



3. Disconnect the wire harness at the plug by the lower mounting bracket on right hand arm. In some installations the harness may be run through a hole in the side wall of the coach. Pull harness out of the hole. If hole is sealed, use a screw driver to dig out the sealant. Be careful not to damage harness or RV. See FIG. 1C.



4. Wrap two heavy wire ties around arm; one 8 inches above the bottom bracket, and the other above the gas shock bracket. Repeat steps 3 and 4 on both arms.

⚠ 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.

Note: The next two steps require three people.

5. Remove the lag bolts holding the top and bottom brackets to the coach.
6. While lifting the arms to support the FRTA, slowly walk the awning fabric out of the awning rail.
7. Lay the FRTA on a clean area to prevent damages.

REVISION

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C. UNWINDING A LEFT HAND TORSION ASSEMBLY SPRING

⚠ 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.

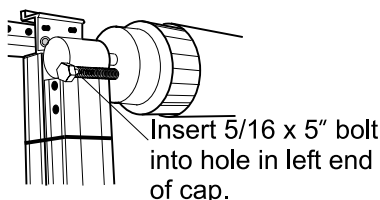
Note: If the awning is installed on a coach, complete the following steps on a step ladder with the awning extended two feet from the awning rail.

⚠ WARNING

Severe injury can result from the rapid spin-off of the top casting. Use the 3108896.006 crank (NEVER use bare hands) to handle a top casting under spring tension.

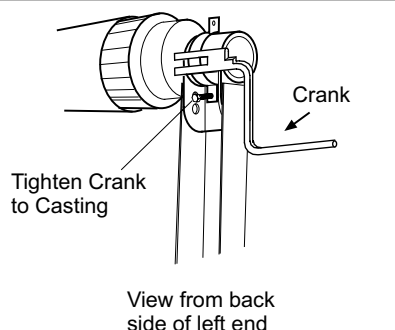
1. Before the arm is removed from the Left Hand (LH) torsion, the torsion must be pinned to prevent uncontrolled unwinding of the spring.
 - a. To pin the left hand torsion, insert a 5/16 x 5" bolt into the hole of the same size in the end cap. The top casting acts as a stop, preventing the torsion from turning. See FIG. 2.

FIG. 2



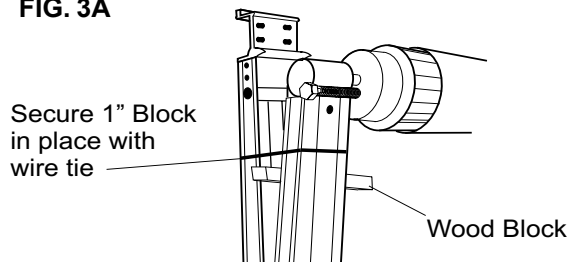
2. Remove the 1/4-20 x 1/2" screw holding the arm to the torsion. **DO NOT LIFT** the FRTA off of the arm. See FIG. 2.
3. While casting is still in the arm, place the 3108896.006 crank on the back side of the casting. Insert the 1/4-20 x 1/2" screw through the bracket on the crank and tighten it to the back of the top casting. See FIG. 3.

FIG. 3



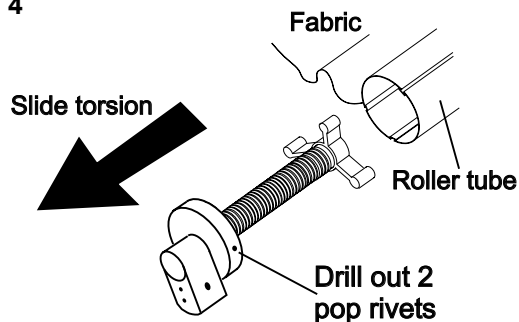
4. Place a 1" block below the left hand end cap and push the left arm back to the closed position. Install three heavy wire ties around the arm. One tie should be 8 inches above the bottom mounting bracket and the second is above the gas shock mounting bracket. The third should be just below the top casting holding the wood block in place. See FIG. 1C and 3A.

FIG. 3A



5. Rest the roller tube on your shoulder and lift the top casting of the torsion off the arm assembly. Grip the tool firmly and remove the bolt from the torsion. Keeping a firm grip on the tool, slowly unwind the tension out of the spring.
6. Make sure the torsion spring has been relieved of its tension.
7. Mark or make note of the location of the fabric and the end cap on the roller tube. This is necessary to reposition the new torsion, fabric or roller tube exactly the same when the new part is installed.
3. Drill out the two rivets from the left hand torsion. Remove torsion assembly from roller tube and clean out any burrs or foreign particles left behind. See FIG. 4.

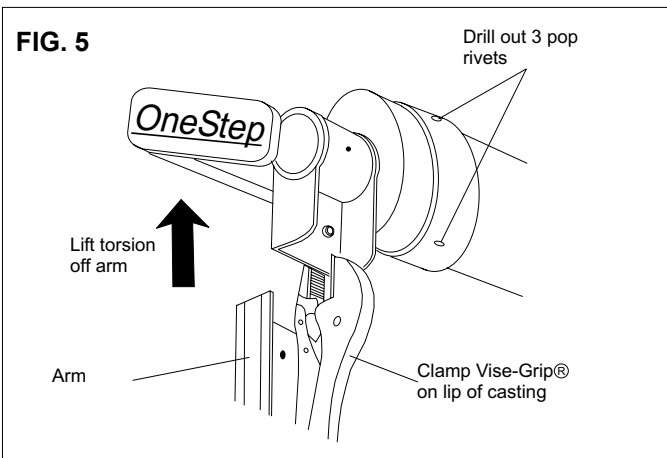
FIG. 4



D. UNWINDING AND REMOVING A RIGHT HAND TORSION ASSEMBLY

Note: If the awning is installed on a coach, complete the following steps on a step ladder with the awning extended two feet.

1. Remove the 1/4-20 x 1/2" screw that attaches the arm to the motorized torsion.
2. Lift torsion from arm and clamp Vise-Grip® firmly to the bottom edge of the casting. See figure 5.
3. Place a 1" block below the left hand end cap and push the right arm back to the closed position. Install three heavy wire ties around the arm. One tie should be 8 inches above the bottom mounting bracket and the second is above the gas shock mounting bracket. The third should be just below the top casting holding the wood block in place. See FIG. 1C and 3A.



4. Drill out the 3 pop rivets using the 3/16" drill bit.
5. Slide the torsion out of the tube. When the end cap of the torsion clears the roller tube, the spring tension can be unwound. Slowly unwind tension out of the spring.
6. Remove the torsion from the roller tube and clean out any burrs or foreign particles left behind.

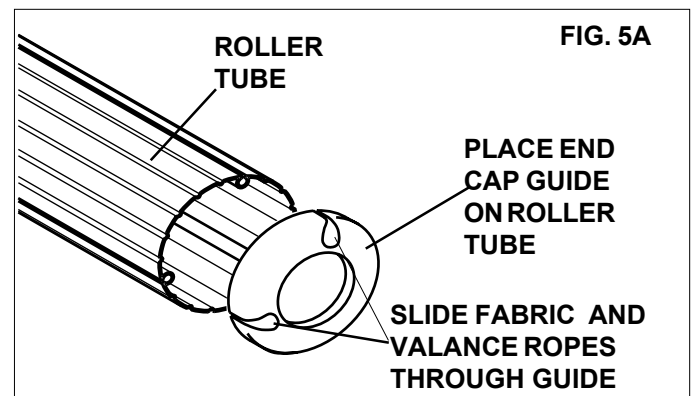
E. HOW TO REMOVE FABRIC FROM ROLLER TUBE

1. Remove awning from coach. See Section B.
2. Remove both torsions. See Sections C, D and E for torsion 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 spread open the end of the groove(s) of the roller tube before removing fabric.

F. 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 the same as the original.
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. Slide the fabric and valance ropes through the end cap guide and onto the roller tube. See figure 5A.



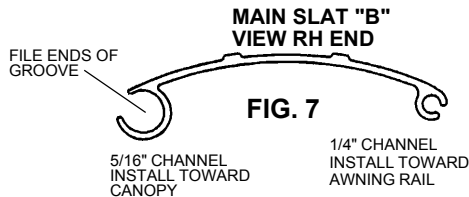
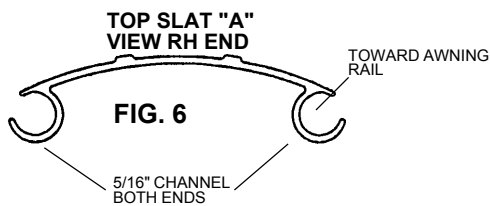
Note: When changing the fabric, it is vital that the same groove(s) be used. This eliminates the need to re-drill any holes.

3. Center the fabric on the roller tube and hand-roll the entire assembly in the same direction as the original fabric.
4. See Section H - REPLACING TORSION ASSEMBLIES.

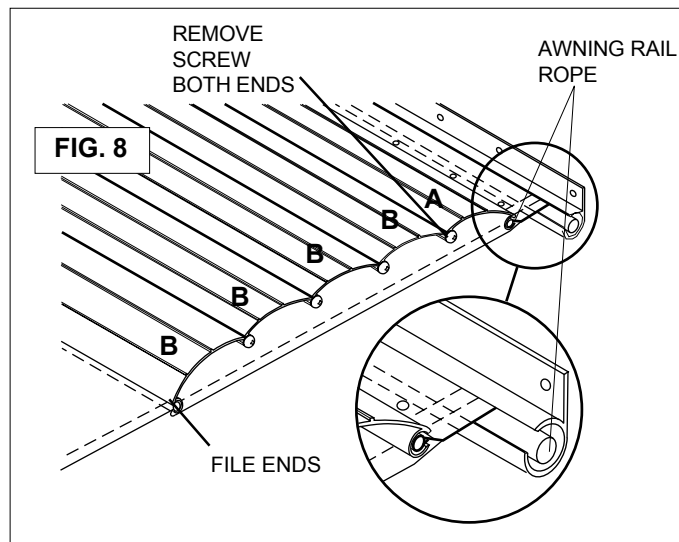
G. ROLLER COVER ASSEMBLY REPLACEMENT ON ONE STEP AWNING

1. Remove the two screws (one on each side) that lock slat "A" to first slat "B". See FIG. 6, 7, & 8. Slide the top slat "A" off slat assembly and fabric. Keep for reinstall in Step 6 (unless new slat assembly is being installed).
2. Slide remaining slat assembly off fabric and lay new fabric over old one. Check for correct size and color.
3. The new replacement roller cover/fabric will be installed as shown in FIG. 8. Place connected slat assembly on top of fabric.

Note: Make sure the 1/4" groove is toward cover. If new slat assembly is being installed, it may be necessary to remove the extra slat "B". The One Step Fabric requires only 4 of the Slat "B".

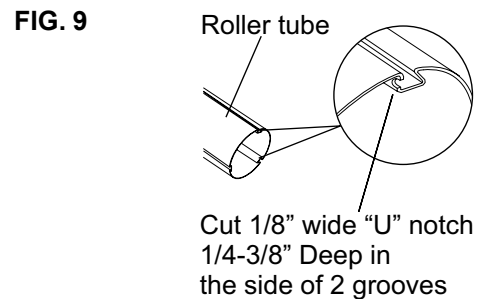


4. Use a small file and round ends of the groove in the 5/16" end of slat "B". See FIG. 6 & 7.
5. Re assembly roller cover assembly and slide connected slide assembly onto the poly rope in fabric located approximately 12" from awning rail end. See FIG. 8.
6. Slide slat "A" onto poly rope located 1" from awning rail. See FIG. 6 & 8. Being careful slide the roller cover onto both ropes at the same time.

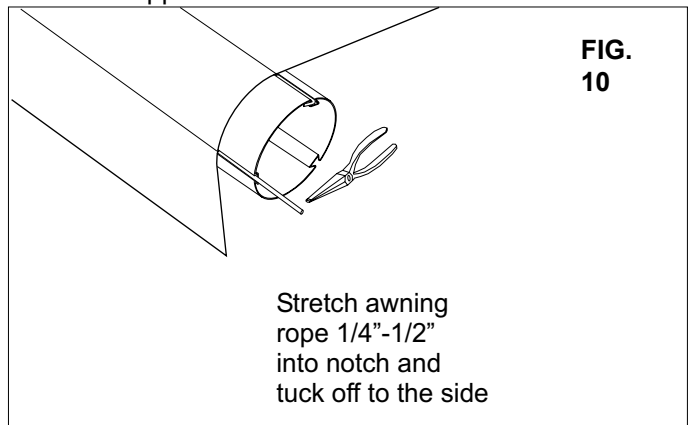


H. REPLACING THE TORSION ASSEMBLIES

1. The roller tube groove must be "U" notched before the fabric poly rope can be stretched and wedged into the notch. See FIG. 9.



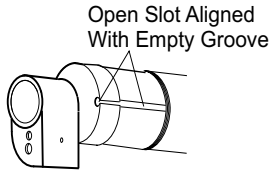
2. Use pliers to stretch poly rope 1/4"-1/2" and tuck it into the notch. Position the poly rope off to one side, making sure it will not interfere with the torsion. Repeat Steps 1 & 2 on opposite end. See FIG. 10



3. Reinstall the torsion assembly in the roller tube. Align rivet holes on the end cap with the holes in the roller tube. Be sure the new torsion is in the same position as the original torsion.

Note: If the roller tube is new, the rivet holes must be drilled. The left hand torsion must have the open slot aligned with the empty groove in the roller tube. Put the locating pin on the inside of the end cap on the motor driven (right hand) torsion in the empty groove of the roller tube. See FIGURES 11 & 12.

FIG. 11



4. Mark the hole location on the roller tube (if new tube), using the end cap as a template. Drill the 3/16" holes and secure torsion assembly with 3/16" x 3/8" long pop rivets.

Put pin in the empty groove of the roller tube

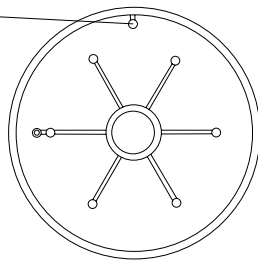


FIG. 12

I. REWINDING LEFT HAND TORSION ASSEMBLY SPRING

Note: If the awning is installed on a coach, complete the following steps on a step ladder with the fabric extended two feet.

⚠ WARNING

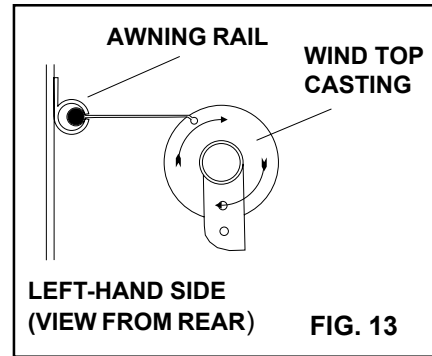
Use extreme care. Springs under tension are dangerous. If not controlled they will unwind quickly. Keep hands and clothing clear of top casting, as personal injury may result.

1. Fasten the torsion winding crank (3108896.006) to the left hand top casting as shown in FIG. 3.

⚠ WARNING

Severe injury can result from the rapid spin-off of the top casting. Use the 3108896.006 crank (NEVER use bare hands) to handle a top casting under spring tension.

2. Rewind the left torsion assembly 5 turns in the direction shown in FIG. 13.
3. Place a 5/16 x 5" bolt in the hole on the left end cap. This will prevent the rapid spin-off of the topcasting during installation.



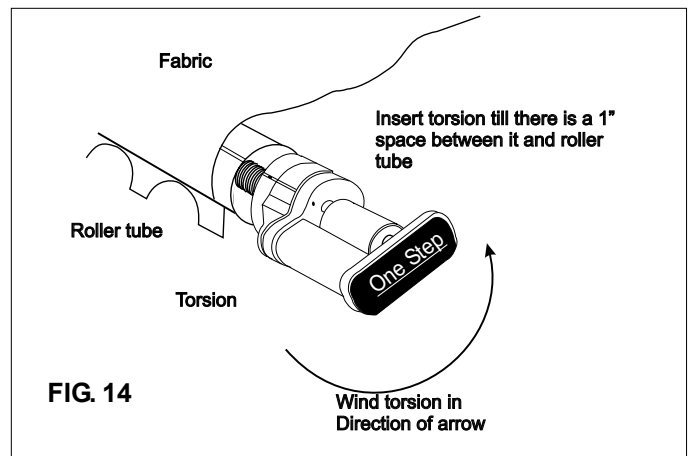
J. REWINDING RIGHT HAND TORSION ASSEMBLY SPRING

Note: If the awning is installed on a coach, complete the following steps on a step ladder with the fabric extended two feet. The right hand drive torsion must be unfastened from the roller tube to add tension. See Section D- Unwinding and REMOVING A RIGHT 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.

1. The torsion must be free from and 1" away from the end of the roller tube. If the torsion is fastened see section D - UNWINDING AND REMOVING A RIGHT HAND TORSION ASSEMBLY, STEPS 1 thru 6.
2. Clamp the Vise-Grip® to the casting as show in FIG. 5.
3. Wind the torsion 5 turns in the direction of the arrow (counterclockwise). See FIG. 14.



4. Slide torsion completely into the roller tube. Be sure that the locating pin on the end cap is in the empty groove of the roller tube see FIG. 12.
5. Secure the drive torsion assembly to the roller tube with three 3/16" x 3/8" pop rivets.

K. REINSTALL AWNING

1. Reinstall awning on the RV per the awning installation manual.