

3109696.009 CONVERSION KIT

INSTRUCTIONS

FOR

TWO STEP AWNING

Kit Contains:

1ea. Motorized Right Hand Torsion
1ea. LH Torsion

1ea. 3109676.001 Instructions
5ea. Pop Rivets 3/16" X 3/8"

Required A & E Accessories:

1ea. 760111X.400 Basement Hardware Set or 7601001X.400 Standard Hardware Set
1ea. 3109373.005 Control Box w/wire harness

A. GENERAL INSTRUCTIONS

The two step awning can be converted to operate automatically with the installation of new right and left One Step Torsions, Hardware and Control Box. The Two Step Awning and hardware should be removed completely from the recreational vehicle and reinstalled. This will insure that the hardware and awning will operate as designed.

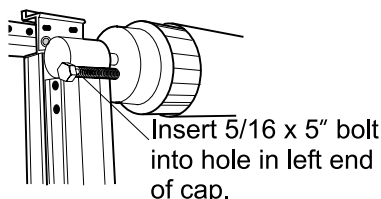
! WARNING

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 THE AWNING FROM THE COACH

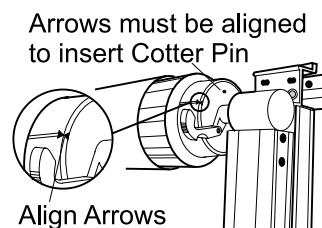
1. Before the awning is removed from the coach, it must be pinned to prevent uncontrolled unwinding of the spring.
2. To pin the left hand torsion, insert a 5/16 x 5" bolt into the 5/16" hole in the left hand end cap. The top casting acts as a stop, preventing the torsion from turning. See FIG. 1.

FIG. 1



3. To pin the right hand torsion, align the arrow on the end cap with the arrow on the lock lever hub. Insert a 1/8 X 3" cotter pin into the hole of the end cap, make sure it is completely through the inside hole. See FIG. 2.

FIG. 2



4. Remove the TEK screws securing the awning fabric at each end of the awning rail. See FIG. 3 & 4.

FIG. 3

Two Step w/ Metal Shield

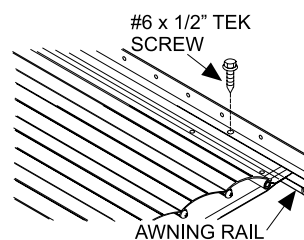
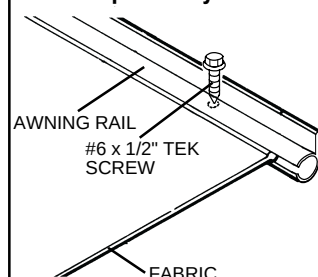


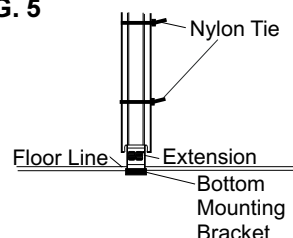
FIG. 4

Two Step w/ Vinyl Shield



5. 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. See FIG. 5.

FIG. 5



⚠ 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.

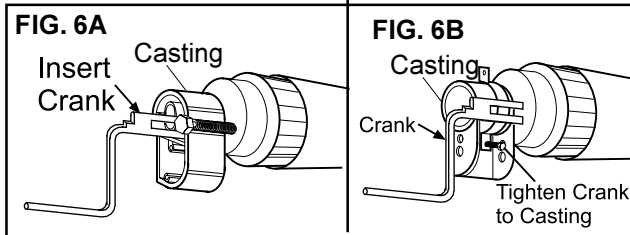
Note: The next two steps require three people.

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

C. REMOVAL OF THE TORSIONS FROM THE ROLLER TUBE

Note: Torsions must be pinned for Step 1. See steps 2 and 3 in Section "B".

1. If your end casting looks like the one in FIG. 6A go to Steps 2 & 3. If your end casting looks like the one in FIG. 6B go to Steps 4 & 5.



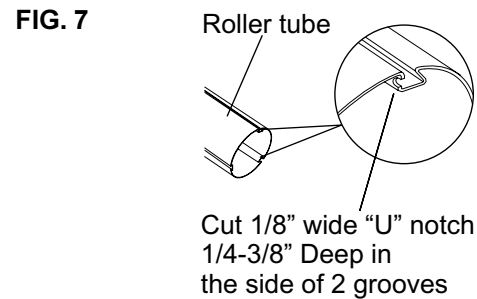
2. Remove the two nuts and screws holding the arm to the torsion. The arm can now be removed from the torsion.
3. Insert the torsion winding crank (3108896.006) into the top casting. With a firm grip on the crank, remove the cotter pin (RH torsion, See FIG. 2) or 5/16 x 5" bolt (LH torsion) from the end cap/hub. See FIG. 1. Slowly unwind the turns of tension on the spring. See FIG. 6A. Repeat on other end.

Note: Torsions must be pinned for Step 5. See steps 2 and 3 in Section "B".

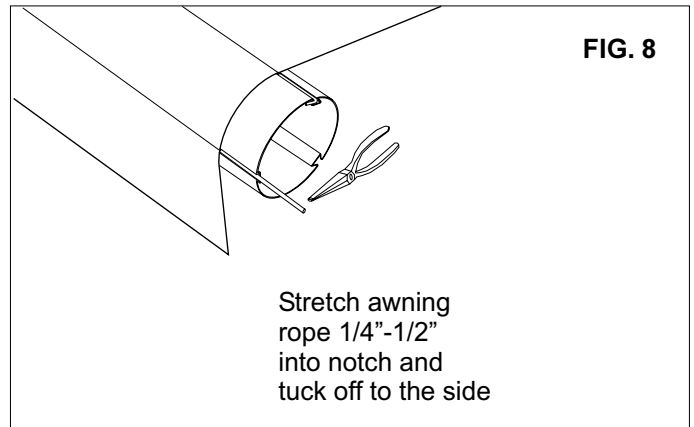
4. Remove the #1/4 x 20-0.5 hex head bolt from the arm. Make sure the cotter pin (RH torsion) - See FIG. 2 - or 5/16" x 5" bolt (LH torsion) - See FIG. 1 - are in place before you remove the end casting out of the arm. Repeat on other end.
5. Place the 3108896.006 crank on the back side of the casting. Insert the screw just removed through the hole in the bracket on the crank. Tighten the screw. Now slowly unwind the turns of tension on the spring. See FIG. 6B.
6. Drill out the three pop rivets using a hand drill and a 3/16" drill bit. Remove the torsion assembly from the roller tube. Clean out any burrs or rivet bodies left in the tube.
7. Repeat on opposite end of FRTA.

D. REPLACING TORSIONS

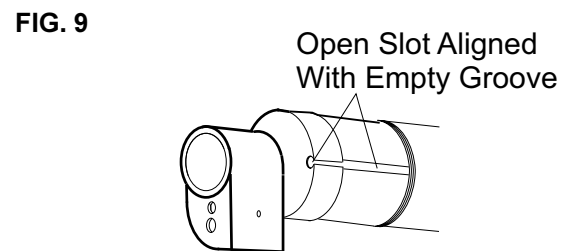
1. The roller tube groove must be "U" notched before the fabric poly rope can be stretched and wedged into the notch. See FIG. 7.



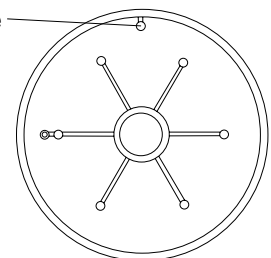
2. Use pliers to stretch poly rope 1/4"-1/2" and tuck it into the notch. Position the poly rope off to one side, making sure it will not interfere with the torsion. Repeat Steps 1 & 2 on opposite end. See FIG. 8.



3. Reinstall the new torsion assemblies in the roller tube. 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 9 & 10.



- FIG. 10** Put pin in the empty groove of the roller 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.

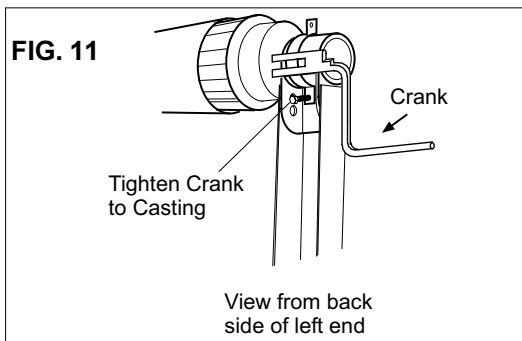
Note: Do not fasten RH or Motor Drive torsion to roller tube at this time.

E. REWINDING 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.

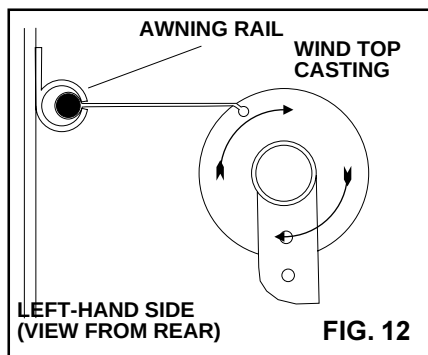
- Fasten the torsion winding crank (3108896.006) to the left hand top casting as shown in FIG. 11.



⚠ 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.

- Rewind the left torsion assembly 5 turns in the direction shown in FIG. 12.



- Place a 5/16 x 5" bolt in the hole on the left end cap. This will prevent the rapid spin-off of the top casting during installation.

F. REWINDING RIGHT HAND TORSION ASSEMBLY SPRING

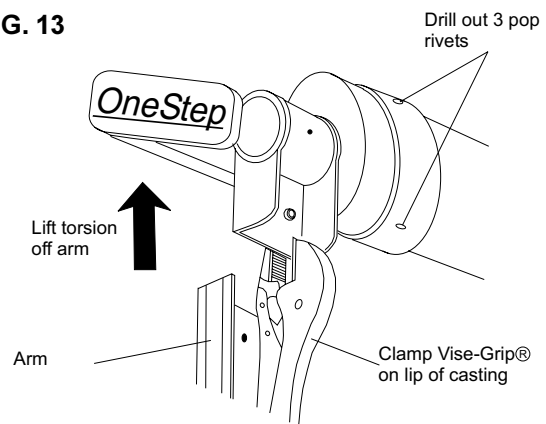
- The right hand motor drive torsion must not be fastened to the roller tube to add tension.

⚠ WARNING

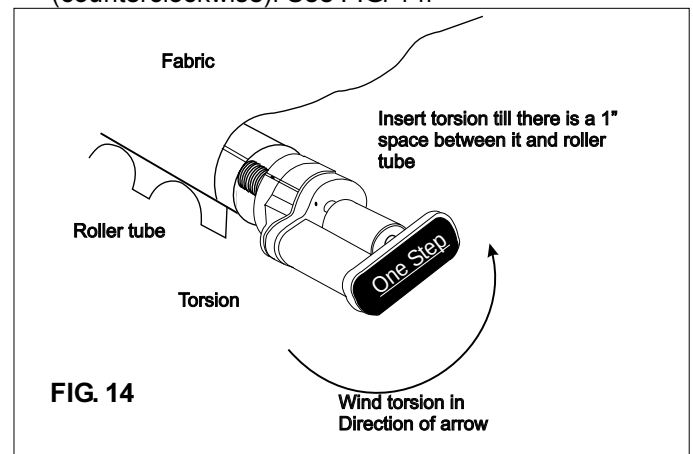
Use extreme care. Springs under tension are dangerous. If not controlled they will unwind quickly. Keep hands and clothing clear of top casting, as personal injury may result.

- The torsion must be free from and 1" away from the end of the roller tube.
- Clamp the Vise-Grip® to the casting as show in FIG. 13.

FIG. 13



- Wind the torsion 5 turns in the direction of the arrow (counterclockwise). See FIG. 14.



- 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. 10.
- Secure the drive torsion assembly to the roller tube with three 3/16" x 3/8" pop rivets.

G. REINSTALL AWNING

- Reinstall awning on the RV per the awning installation manual for the One Step Awning.