



RECORD THIS UNIT INFORMATION FOR
FUTURE REFERENCE:

Model Number _____

Serial Number _____

Date Purchased _____

Residential Patio Awning

**8953001.400# Basement Hardware
8953002.400# Standard Hardware
FOR
945(XX)(YY).(X)00(#)
Fabric Roller Tube Assembly**

USA
SERVICE OFFICE
Dometic Corporation
1120 North Main Street
Elkhart, IN 46514

CANADA
Dometic Corporation
46 Zatonski, Unit 3
Brantford, ON N3T 5L8
CANADA

**For Service Center
Assistance:
Visit:
www.eDometic.com**

⚠ WARNING

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

⚠ AVERTISSEMENT

Lire et comprendre ce manuel avant de procéder à l'installation, à des réglages, de l'entretien ou des réparations. L'installation de cet appareil doit être effectuée par un réparateur qualifié. Toute modification de cet appareil peut être extrêmement dangereuse et entraîner des blessures ou dommages matériels.

INSTALLATION INSTRUCTIONS

Model

945(XX)(YY).000#

FRTA

895300(X).400#

Hardware

REVISION A

Form No. 3312890.000 5/17

(French 3312921.000_A)

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LaGrange, IN 46761

Important: These Instructions must stay with unit. Owner read carefully.

SAFETY INSTRUCTIONS

This manual has safety information and instructions to help users eliminate or reduce the risk of accidents and injuries.

RECOGNIZE SAFETY INFORMATION



This is the safety-alert symbol. When you see this symbol in this manual, be alert to the potential for personal injury.

Follow recommended precautions and safe operating instructions.

UNDERSTAND SIGNAL WORDS

A signal word, **WARNING** OR **CAUTION** is used with the safety-alert symbol. They give the level of risk for potential injury.

⚠ WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

⚠ CAUTION used without the safety alert symbol indicates, a potentially hazardous situation which, if not avoided, may result in property damage.

Read and follow all safety information and instructions.

REQUIRED TOOLS:

- (1) Cordless Drill
- (1) Socket Bit Set
- (1) Drill Bit Set
- (1) Hammer
- (1) Wire Strippers
- (1) Wire Cutters
- (1) Jig Saw or Hand Saw and Chisel
- (1) Torsion Winder Kit (3308334.006U)

REQUIRED PARTS: (Packed with each Hardware Assembly)

- 8953001.400# & 8953002.400# Hardware
- (4) Mounting Bracket
- (8) #14-10 x 1-1/2" Hex Head Screw
- (2) .25" Split Lock Washer
- (8) 3/16" X 1" Oscar Rivets
- (2) #6-20 x .44" Hex Washer Head Self Drilling Screw
- (2) 1/4" - 20 x 3/4" Hex Head Bolts

Note: For service parts go to www.eDometic.com and click the link "Service Parts". Enter your product model number to view service parts available.

Important: Read and understand **ALL** of the following steps before beginning installation.

Application

The Dometic Awning is designed and intended for use on homes.

Important: Structural backing is required where mounting screws will be installed on home wall for securing top mounting brackets and back channels.

Important: Follow the Minimum distance dimensions requirements from awning rail to door. Mounting height depends on awning type and length. Insure sufficient room is available before starting installation.

Hardware Model	Minimum Distance
8953001.400#	17"
8953002.400#	12"

When the door falls in the center of the awning, add 2" to these distances.

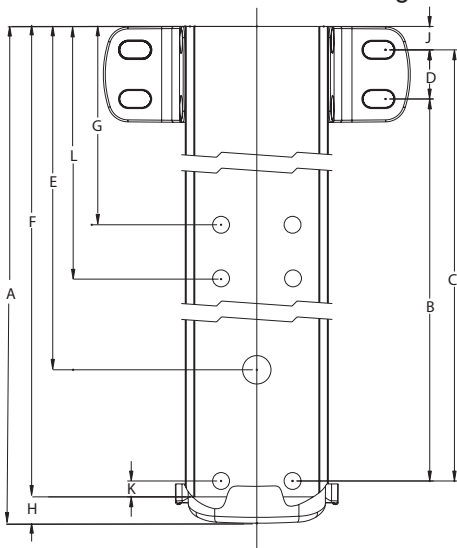
Installation Height: This is the center to center distance of mounting holes in the top mounting bracket and the back channel. See Specification chart and illustrations on page 3.

Dometic, LLC reserves the right to modify appearances and specifications without notice.

	Specification Chart	
	8953001.400#	8953002.400#
A	62 3/4"	66-7/8"
B	60-3/4"	64-1/4"
C	61-1/2"	65"
D	3/4"	3/4"
E	60-1/8"	63-5/8"
F	62-1/8"	65-5/8"
G	31"	32-7/8"
H	5/8"	65-5/8"
J	3/8"	3/8"
K	1/4"	1/4"
L	35-1/4"	N/A

- A= Overall length of hardware
 B= Minimum mounting distance center to center on mounting holes.
 C= Maximum mounting distance center to center on mounting holes.
 D= Distance between mounting holes in bracket.
 E= Distance from top edge of mounting bracket to center of hole for wire harness.
 F= Back channel length.
 G= Distance from top edge of mounting bracket to center of middle mounting hole on back channel.
 H= Distance front channel guard extends past back channel.
 J= Distance from top edge of top bracket and center of first mounting hole.
 K= Distance between edge of back channel and bottom mounting holes.
 L= Distance from top edge of mounting bracket to center of optional middle mounting holes on back channel.

FIG. 1
895300X.400# Residential Patio awning Hardware



Installation Instructions

Installation of Dometic Awnings will briefly require three people. Use the following procedure to assure a properly installed and properly functioning awning.

A. Secure FRTA to Hardware

1. Carefully lay the fabric roller tube assembly on a clean, well padded "V" trough to prevent fabric and/or roller cover damage. Remove the hardware from the packaging and place the arm pre-wired for the motor on the right side. The left arm is not pre-wired for the motor.

⚠ WARNING

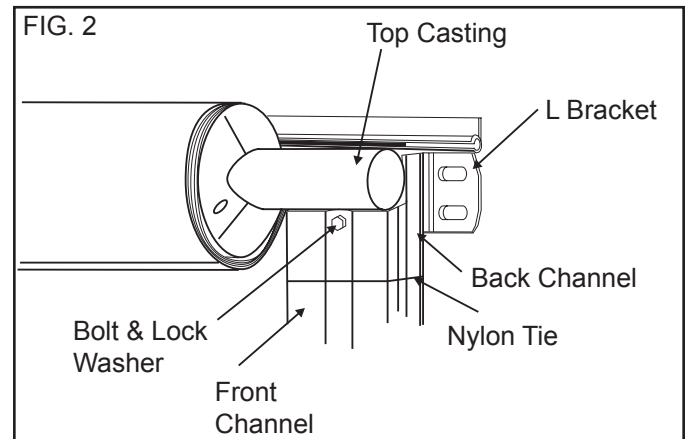
Personal Injury Hazard. Rapid casting spin off will occur if not controlled. Do not remove cotter pin in end cap until top casting is secured to hardware. Failure to heed this warning could cause severe personal injury.

⚠ WARNING

Personal Injury Hazard. Hardware arms are spring loaded. Rapid arm extension will occur if tie is removed before top casting is secured to hardware. Failure to heed this warning could cause severe personal injury.

2. Secure each front channel to top casting of the FRTA. See FIG. 2. Slide top nylon ties down arm approximately 24 inches to allow hardware to open far enough to insert top casting into front channel. Do not remove nylon ties at this time. The gas shocks on arm assemblies are pressurized and will spring open if not controlled.
3. Using one (1) 1/4"-20 x 3/4" hex head bolt and one (1) 0.25 split lock washer secure both top castings to the right and left front channels. See FIG. 2.
4. Remove cotter pin from LH end cap.

FIG. 2

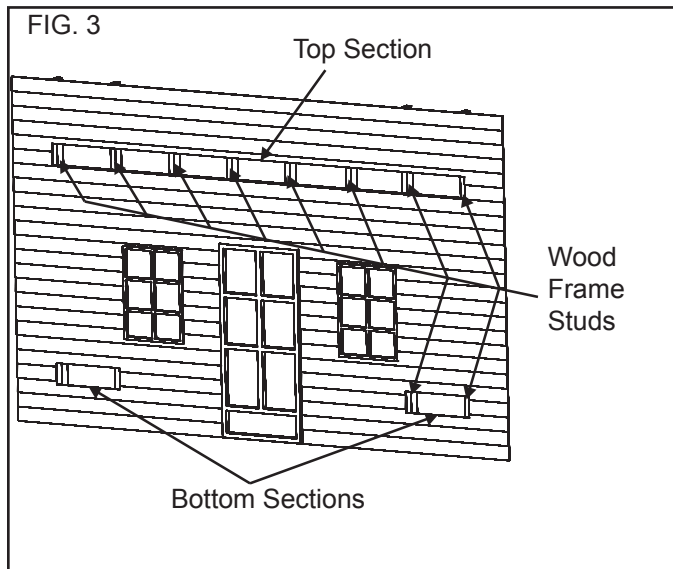


⚠ WARNING

Personal Injury Hazard. Rapid casting spin off and rapid arm extension will occur if they are not controlled. Before separating torsion from hardware, the torsion must be pinned through end cap and hardware arms must be bound. Failure to heed this warning may cause severe personal injury or property damage.

B. Install Backer Boards

1. Prepare the mounting area
 - a. Remove siding sections. See FIG. 3



- b. Install back boards in the cut out section making sure the thickness of the back boards are flush with the peaks of the siding. The top back board width should be a minimum of 6" and the minimum length must be longer than the length of the awning. Secure backer boards to studs using two nails per wood stud. See FIG. 4 and 5.

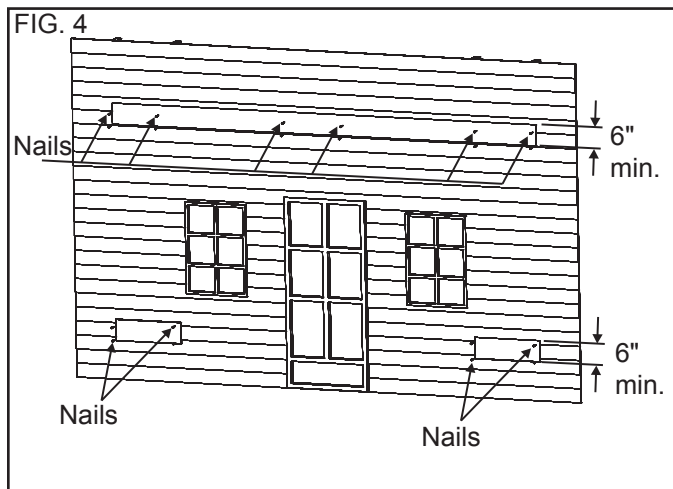
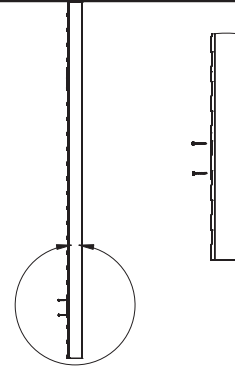


FIG. 5

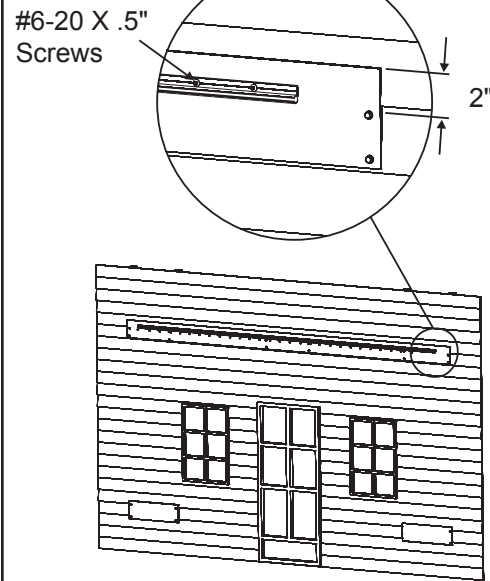


- a. Seal all edges and nail area with clear silicone sealer.

C. Install Awning Rail

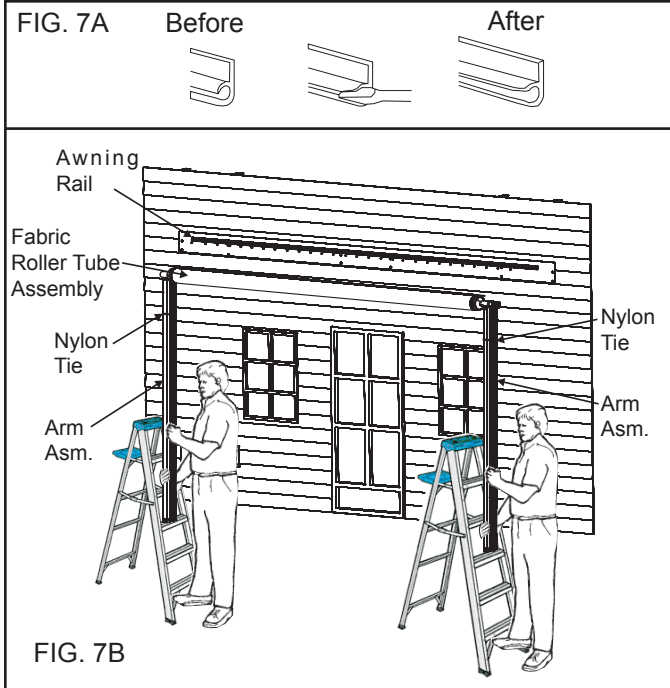
1. Prepare the mounting area.
 - a. Before securing the awning rail to the top backer board, make sure the nails securing the back board to the studs do not interfere with the awning rail. Leave a minimum of two inches between the top edge of the backer board and the backer board mounting screws. See Fig. 6
 - In case there is not enough room or there are obstacles making it impossible to walk the fabric through a mounted awning rail, slide the rail on the FRTA. Skip step b. and go to step D. (Install Fabric in Awning Rail).
 - b. Level the awning rail and install to top backer board using #6 screws. See Fig. 6

FIG. 6



D. Install Fabric in Awning Rail

1. Prepare the awning rail to accept the awning fabric.
 - a. Select the end from which the awning shall be fed, then widen that end with a flat screwdriver and file off any sharp edges. See FIG. 7A.



2. Unwind fabric one revolution before feeding awning fabric into awning rail. This will allow enough space between side wall and awning hardware to connect wires in Step F.

Important: Do not remove more than one revolution of fabric.

3. Slide the rail on the FRTA.
4. With one person grasping each arm assembly, carefully lift the entire assembly to an upright position. Rest arms on two ladders see FIG. 7B.

Important: Keep the two arm assemblies parallel to each other to avoid excessive twisting and possible damage to the assembly.

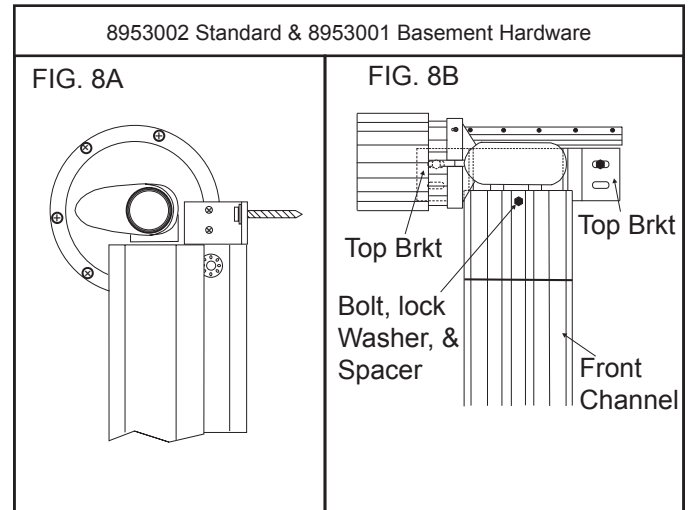
5. Go to step C.1.b. (Install Awning Rail)

E. Top Mounting Bracket Installation

1. (8953001 Basement & 8953002 Standard Hardware) Secure Top mounting Brackets
 - a. After the complete awning assembly has been threaded into the awning rail, check that its position allows for solid mounting of the top mounting brackets and the back channels. Also insure that the back channels are in the desired location (not restricting use of doors, access doors, windows, etc.)

Important: Structural backing is required where mounting screws will be installed through sidewall for securing top mounting brackets.

- b. Place both top brackets in position directly under the awning rail as shown in FIG. 8B. The motorized arm assembly is always installed on the right end of the awning.



Top bracket must be installed parallel with the awning rail. Using the outside bracket hole as a guide, pre-drill a 3/16" hole for mounting screw. Drill a 7/32" hole if drilling into steel. Install outside top mounting bracket using one (1) #14-10 x 1-1/2" hex head screw. Seal where the screw enters the back board with clear silicon sealer. Repeat this procedure for opposite side.

⚠ CAUTION

The arm assemblies must be controlled while the top mounting brackets are being installed. When the weight of the FRTA is no longer supported, the downward force could cause the arm assembly to swing side ways and may damage the sidewall if not controlled.

F. Power Supply (3312910.007) Installation

1. The 331291.007 power supply is designed to deliver continuous trouble-free operation.
 - a. First, decide on location of the power supply keeping it close to the awning and outlet. Hang box by using keyhole mounting holes (will fit #8 or #10 screws) located at the back of the power supply box. See FIG. 9A
 - b. Connect terminal block on the bottom of the unit to the awning connections provided. Cut wire coming out of the awning arm to desired length and strip wires. Use spade terminals and connect the red wire to the positive (+) and black wire to the negative (-) terminal block labeled on the power supply. See FIG. 9B
 - c. Plug the AC plug into a 120V AC outlet. See Fig. 9A
 - d. Use the switch on the top of the unit to control the awning as desired.

⚠ WARNING

Do not place unit on or near to sources of heat. Incorrect wiring may result in serious damage to both power supply and equipment wired to power supply. Power supply service should be done at factory. Do not use an extension cord.

FIG. 9A

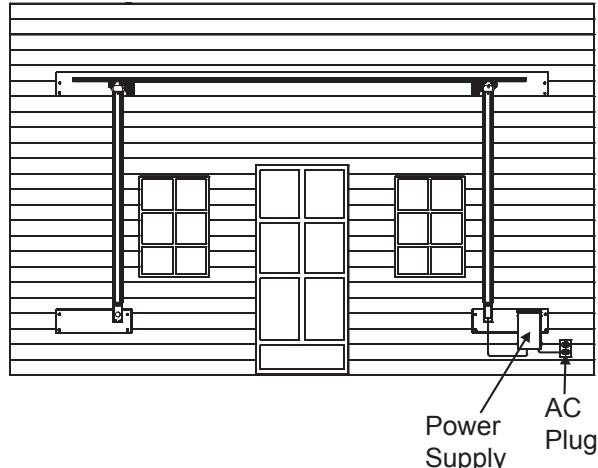
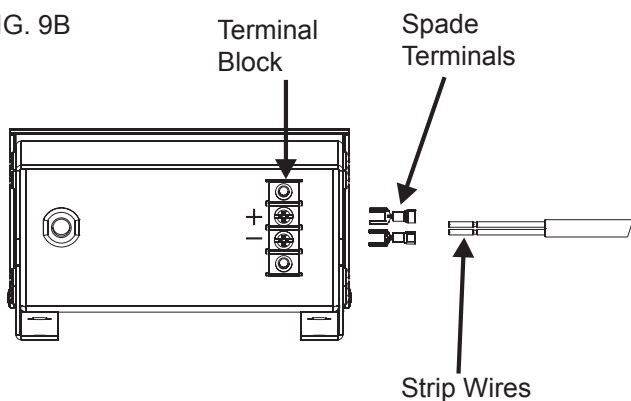


FIG. 9B



Important: The awning is now operational. Complete Steps G & H.

G. Back Channel Installation

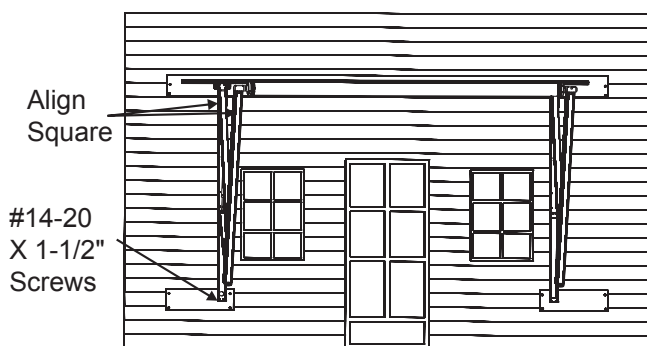
Important: Flat solid Backer board (1/2" thick) is required where #14-10 x 1-1/2" Hex Head Screw (3104499.003) (supplied) will be installed through wall for securing back channels.

1. Open awning as required to secure back channel.
2. Align the back channel so it is square with the wall and the FRTA. A door or window frame can be used to measure from. See FIG. 10.

3. Drill four (4) 3/16" holes through the outside wall using the holes on the back channel as a guide. See FIG. 1.
4. Secure each back channel to wall with four (4) #14-10 x 1-1/2" Hex Head Screw (3104499.003) provided, 2 screws at middle and 2 screws at bottom. Be careful not to pinch or damage motor wire when securing channel to wall. See FIG. 9. Depending on your model, wire covers may need to be removed to access back channel holes.

Important: Flat solid structure backing (1/2" thick) is required if using wood screws (supplied).

FIG. 10



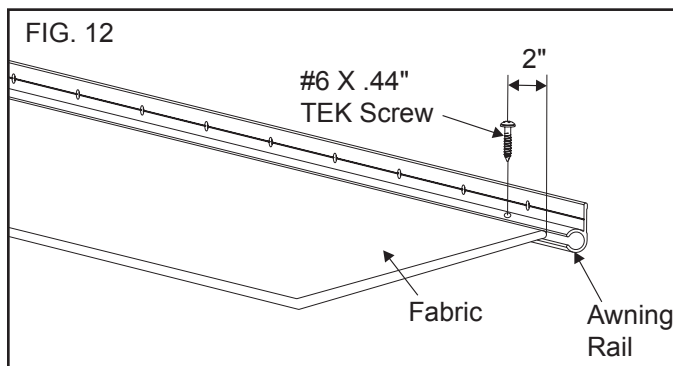
F. Initial Awning Adjustment

Important: Rapid cycling of the awning (opening & closing) can cause the motor to overheat. Allow 2-3 minutes between cycles.

1. Cycle the awning four or five times to check fabric alignment and to make sure the hardware is nesting properly. If there is a misalignment, adjust the arm by loosening the upper mounting bolts and move the bracket accordingly. Cycle the awning again to check the alignment. See User's Guide for opening and closing instructions.

Note: Press rocker switch until awning is fully extended or retracted. If switch is released awning should stop extending or retracting. If not, more than one wrap of fabric was unwound during installation. See Section H for corrections.

2. When satisfied with the alignment, secure fabric roller cover by driving a #6-20 x .44" TEK screw through the rail and into the fabric rope. See FIG. 12 for screw location. Repeat steps 1 and 2 to align the opposite end. The installation is now complete and ready for use.



G. Close and Secure Awning

1. If awning will not be used after installation, close and secure. See User's Guide for closing and securing instructions.

H. Increasing Turns on Left Hand Torsion

⚠ WARNING

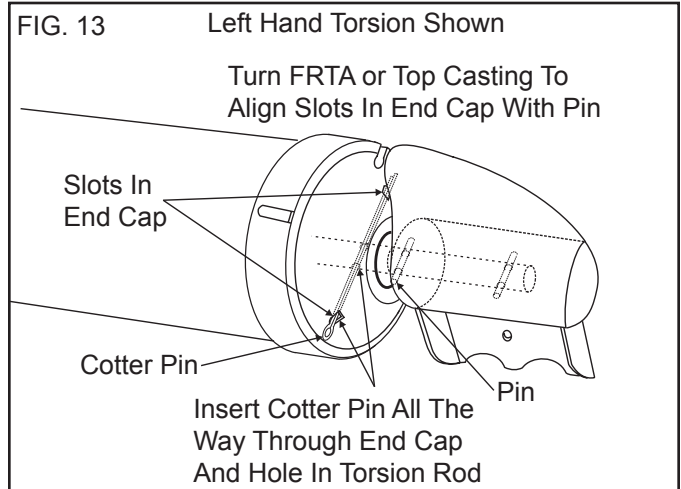
Use extreme care. Springs under tension are dangerous. If not controlled they will unwind quickly. Keep hands and clothing clear of top casting, as personal injury may result.

Note: Complete the following steps on a step ladder with the FRTA extended two turns from the awning rail.

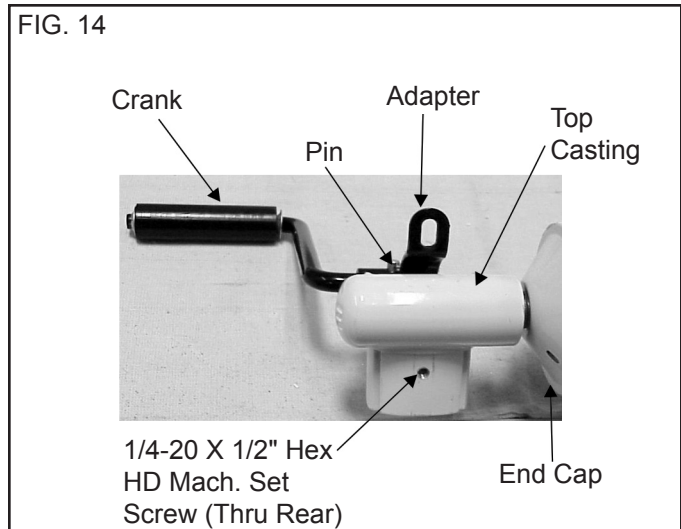
⚠ WARNING

Severe injury can result from the rapid spin-off 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. 13.
 - 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. 13.



- 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.
- d. Remove Hex Head 1/4-20 x 3/4" screw that attaches arm assembly to top casting. Lift casting out of arm assembly.
- e. Attach crank adapter (3308335.011) with 1/4-20 screw and pin crank (3308335.003) as shown on FIG. 14. (Crank & adapter supplied in 3308334.006U Torsion Winder Kit.)



- f. Keep a tight hold onto the crank while the cotter pin is pulled out of the end cap.
- g. Slowly unwind spring tension by allowing the spring to unwind counter clockwise. Torsion will want to unwind by itself. Caution should be taken to prevent rapid unwind.
- h. Once spring is free, position of top casting should be noted for starting position.
- i. Slowly wind the spring tension clockwise eight (8) complete turns.
- j. Reinsert cotter pin through end cap and torsion rod. See FIG. 13.
- k. Remove crank from top casting in arm assembly.
- l. Reinsert top casting into arm assembly.
- m. Replace hex head 1/4-20 x 3/4" screw that attaches arm assembly to top casting.
- n. Remove nylon tie and wood block.
- o. Remove cotter key before attempting to operate awning.
- p. Cycle the awning again and verify awning stops extending when switch is released.