



RECORD THIS INFORMATION FOR FUTURE
REFERENCE:

FRTA Model Number _____
FRTA Serial Number _____
Hardware Model Number _____
Hardware Serial Number _____
Date Purchased _____
Retailer / Qualified Installer _____

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DEALER LOCATIONS**
Please Visit:
www.eDometic.com

SUNCHASER EXPRESS

**89420(XX).400(#)
HARDWARE**

**95(X)(XX)(XX).(XXX)(#)
FRTA**

⚠ 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 ce produit doit être effectuée par un réparateur qualifié. Toute modification de ce produit peut être extrêmement dangereuse et entraîner des blessures ou dommages matériels.

INSTALLATION INSTRUCTIONS

**89420(XX).400(#)
HARDWARE
95(X)(XX)(XX).(XXX)(#)
FRTA**

REVISION A

Form No. 3313991.014 01/17
(French 3313992.012_A)
©2017 Dometic Corporation
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. It is used to alert you to personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

UNDERSTAND SIGNAL WORDS

A signal word, when used with the safety alert symbol, will identify a safety hazard and its level of risk for personal injury. A signal word, without the safety alert symbol, will be used for property damage messages only.

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

⚠ CAUTION CAUTION, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE NOTICE is used to address practices not related to personal injury.

⚠ WARNING

Read and follow all safety information and instructions to avoid possible injury or death.

GENERAL INSTRUCTIONS

⚠ WARNING

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

Required hardware:

- (8) #14-10 x 1 1/2" Hex Head Screw
- (8) 3/16" x 1" Oscar Rivet
- (4) #10-16 x 3/4" Hex Self Drilling Screw
- (2) #6-20 x .44" Hex Washer Head Self Drilling Screw
- (2) 1/4-20 x 3/4" Hex Head Machine Screw
- (2) Lock Washer, 1/4"

Optional accessories:

- 830304 (1) Door Roller Kit
- 830304.003 (50) Door Roller Kits

A. Application

This awning is designed and intended for use on RVs with straight sides.

Awnings can be installed by one person with brief help from additional personnel. Use the following procedure to ensure a properly installed, and properly functioning awning.

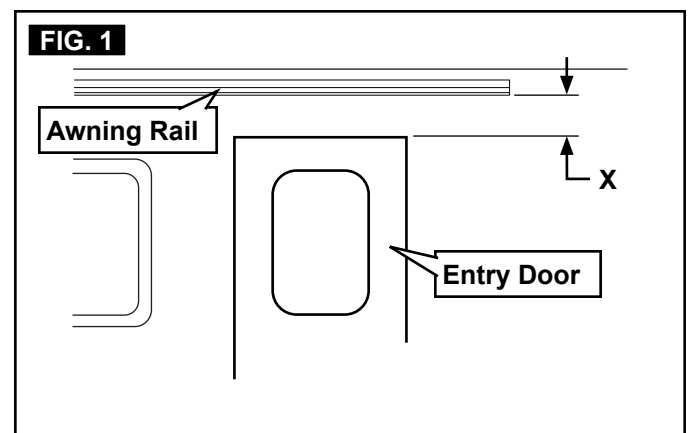
Dometic Corporation reserves the right to modify appearances and specifications without notice.

B. Specifications

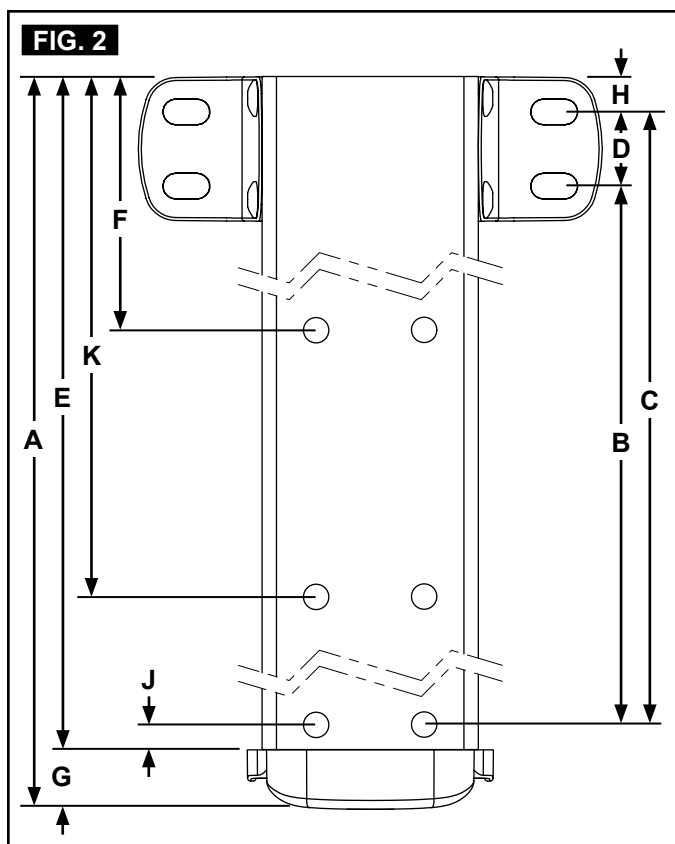
1. Awning rail to door minimum distances:

	89420(X)1.400(#)	89420(X)2.400(#)
X	12"	7"

Note: When entry door is toward center of awning, add 2" to minimum distances.



2. Hardware dimensions:



	89420(X)1.400(#)	89420(X)2.400(#)
A	62 3/4"	66 1/4"
B	60 3/4"	64 1/4"
C	61 1/2"	65"
D	3/4"	3/4"
E	62 1/8"	65 5/8"
F	33"	33"
G	5/8"	5/8"
H	3/8"	3/8"
J	1/4"	1/4"
K	39"	39"

- 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= Back channel length.
 F= Distance from top edge of mounting bracket to center of middle mounting hole on back channel.
 G= Distance front channel guard extends past back channel.
 H= Distance from top edge of top bracket and center of first mounting hole.
 J= Distance between bottom edge of back channel and bottom mounting holes.
 K= Distance from top edge of mounting bracket to center of optional middle mounting holes on back channel.

PROCEDURE

A. Door Roller And Edge Guard (Optional)

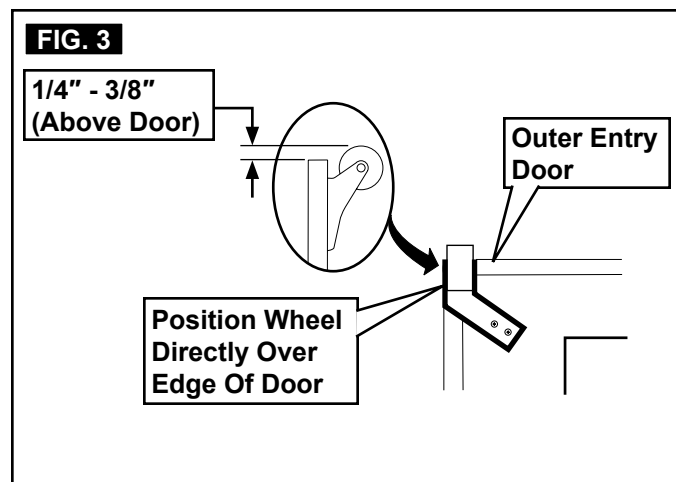
NOTICE

Do not allow corner of entry door to contact awning fabric. This could cause premature wear or tear the awning fabric.

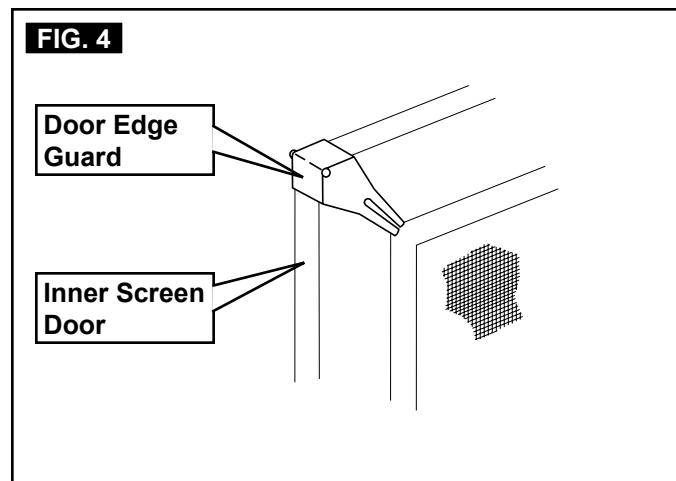
If there's potential for a squared corner entry door to contact awning fabric, a door roller and door edge guard (NOT INCLUDED) should be installed. Rounded corner doors may not require a door roller if there is no potential for damage to awning fabric.

Note: Order part number 830304 for (1) Door Roller Kit, or part number 830304.003 for a package of (50) kits.

1. Place door roller on upper corner of outer entry door (opposite to hinge), transfer (drill) two pilot holes, and place and tighten mounting screws. See FIG. 3.



2. Clip door edge guard onto upper corner of inner screen door (opposite to hinge). See FIG. 4.



B. Prepare Hardware Assembly

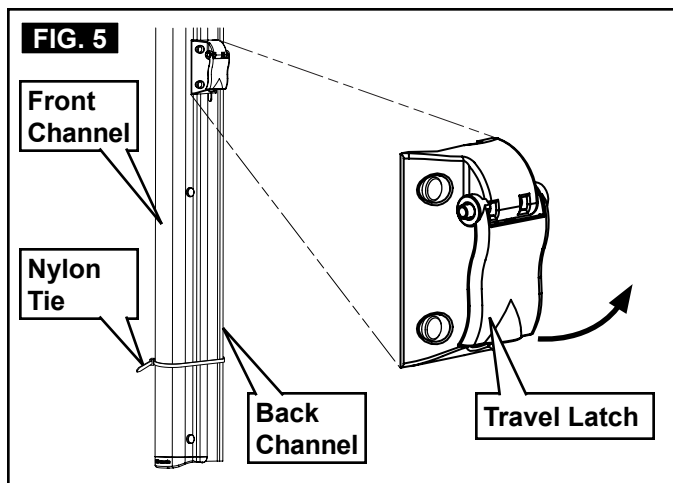
The awning hardware requires minor preparation before installing on RV.

1. Carefully lay fabric roller tube assembly (FRTA) on a clean, well padded "V" trough (or other well protected surface) to prevent fabric damage.

⚠ WARNING

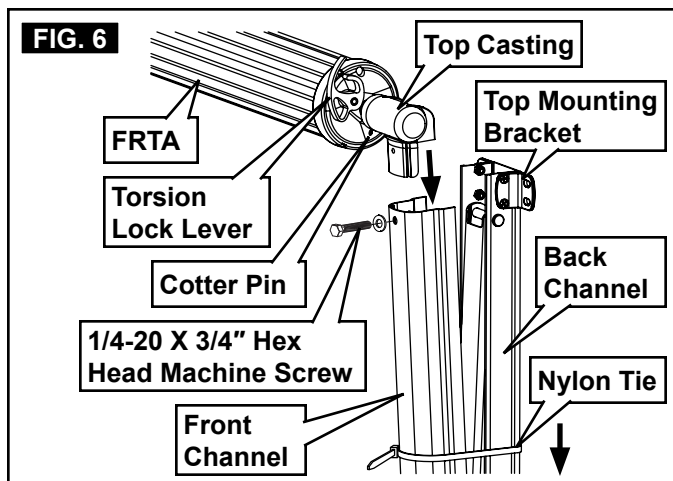
IMPACT OR PINCH HAZARD. Do not remove the two heavy nylon ties that are wrapped around each arm assembly until top casting is secured to hardware, awning fabric is attached to awning rail, and hardware is mounted to RV. Arm assemblies are under tension from gas strut, and removing the ties could allow arms to extend quickly and unexpectedly. Failure to obey this warning could result in death, serious injury, or property damage.

2. Lift travel latch to release front channel from back channel. See FIG. 5.



3. Slide top nylon tie down front channel approximately 24" to allow hardware to open far enough to insert top casting into front channel. See FIG. 6.

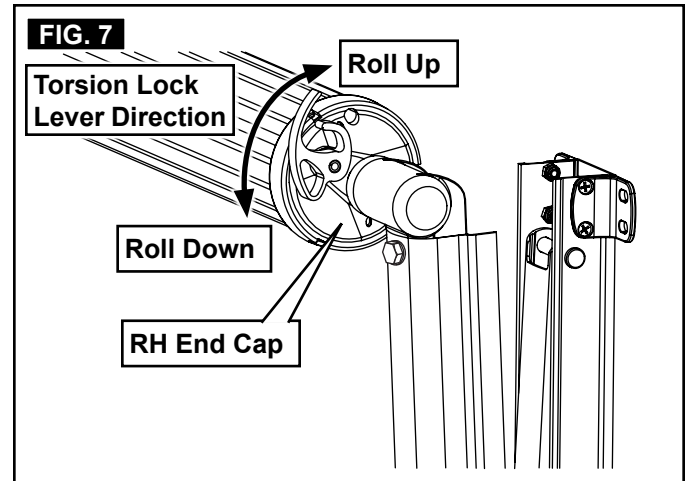
Important: Do not remove nylon ties.



4. Secure each front channel to the corresponding top casting using 1/4-20 X 3/4" hex head machine screws and 1/4" lock washers. See FIG. 6 and 8.

Note: The torsion lock lever must always be installed on the right end of awning.

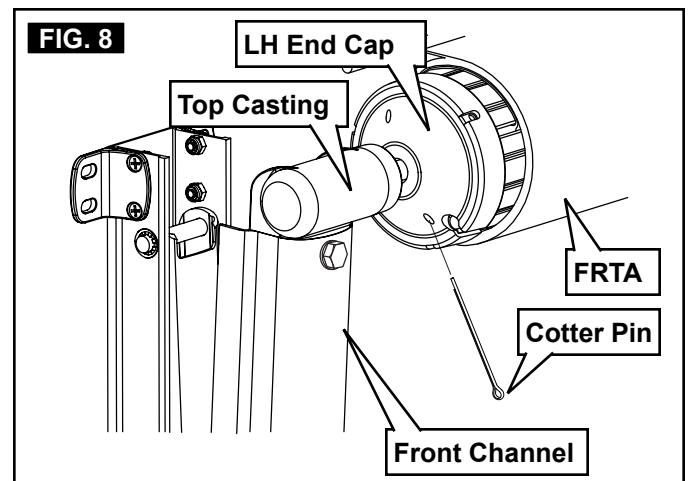
5. After attaching both arms to top castings, rotate the torsion lock lever to the roll down position. See FIG. 7.



⚠ WARNING

IMPACT OR PINCH HAZARD. Do not remove cotter pin from torsion rod (at end cap) until top casting is secured to hardware, and torsion lock lever is in roll down position. Otherwise, rapid casting spin off will occur. Spring tension will attempt to spin the hardware and/or fabric roller tube quickly and unexpectedly. Failure to obey this warning could result in death, serious injury, or property damage.

6. Straighten, remove, and discard cotter pin from left end of torsion rod (LH end cap) only. See FIG. 8.

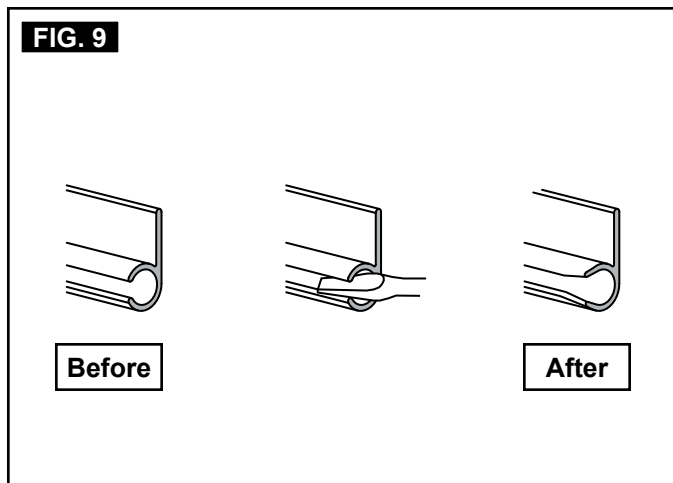


C. Prepare Awning Rail

NOTICE

Make sure awning rail on RV is not warped or curved before installing awning fabric. If awning rail is not straight, awning fabric may wrinkle or stretch.

1. Select the desired awning rail end (on RV) into which the awning fabric will be fed. Widen that end of the rail with a flat screwdriver, and file off any sharp edges. See FIG. 9.



2. Unfurl awning fabric one revolution before installing fabric (with awning roller cover, if equipped) into awning rail.

Note: This will allow enough space between side wall and awning hardware to guide awning fabric into awning rail.

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

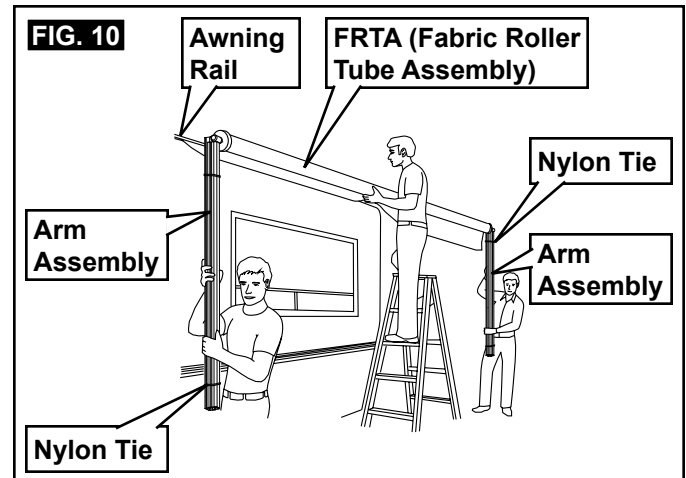
D. Attach Awning Fabric

Important: At least two other people are required to hold and control hardware until top mounting brackets are properly installed.

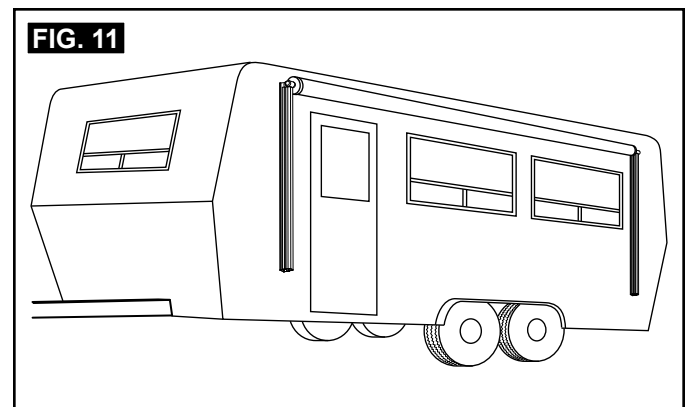
NOTICE

Keep both arm assemblies parallel to each other to avoid twisting, which could cause property damage.

1. With one person grasping each arm assembly, carefully lift the entire awning assembly upright. Carry the awning to the prepared awning rail end. See FIG. 10.
2. One person is needed to guide the awning fabric (with awning roller cover, if equipped) into the awning rail (a stepladder may be necessary), while two others carefully move (carry) the awning hardware assembly to desired position. See FIG. 10.



3. After awning fabric has been threaded into awning rail, check to make sure its position allows for solid mounting of the top mounting brackets and back channel, and that arm assemblies are in desired location (not restricting use of doors, windows, etc.). See FIG. 11.



E. Install Top Mounting Brackets

⚠ WARNING

IMPACT OR CRUSH HAZARD. Make sure RV has appropriate structural backing where mounting screws will penetrate wall, and will safely and securely support awning. Otherwise, the awning may become unstable and could bend or collapse. Failure to obey this warning could result in death or serious injury.

NOTICE

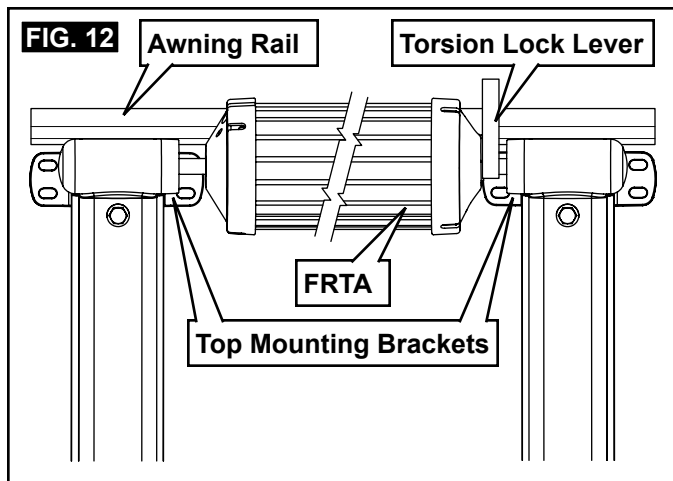
Make sure entry door will open when awning is completely extended. Failure to obey this notice could result in property damage.

1. Verify location of awning.
 - a. Avoid location that interferes with entry door swing when awning is completely extended.

Note: Allow for sufficient clearance between awning fabric and entry door to accommodate awning pitch (slope). See "Specifications" section within this document for minimum distances.

- b. Find a solid structure in RV wall for support of top mounting brackets and back rail.
2. Place top mounting bracket directly under and parallel to the awning rail, and mark hole locations. See FIG. 12.

Note: Some awning rails have a drip channel to catch water as it runs off the roof and will drain to the front or rear of RV. If awning rail is too wide, it may be necessary to lower the position of top mounting bracket to avoid interference with the FRTA.



3. Drill 3/16" diameter holes (7/32" diameter if drilling steel) through marked hole locations and into solid structure of RV.
4. With arm assemblies completely closed, replace top mounting bracket and align its mounting holes to the pre-drilled holes in RV.

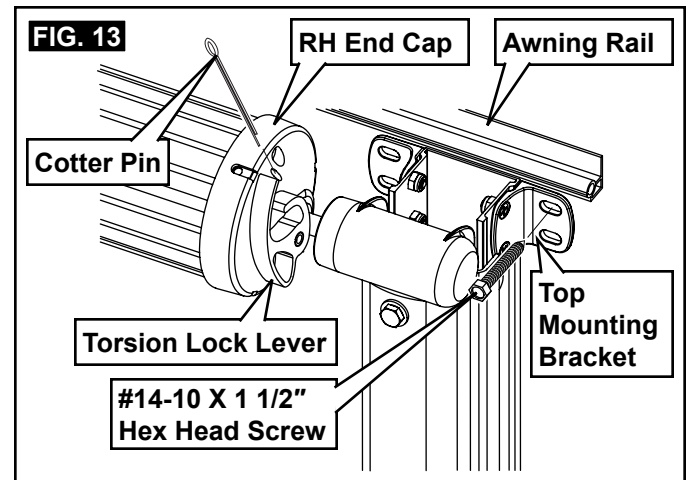
NOTICE

Arm assemblies must be controlled while top mounting brackets are installed. When weight of FRTA is not supported, downward force could cause arm assemblies to swing sideways and damage RV wall.

To help prevent water leakage, always use sealant where fasteners enter RV's side wall or roof.

5. Apply sealant to the #14-10 X 1 1/2" hex head screw threads. Then place and tighten one screw through outside slot of top mounting bracket and into solid structure of RV. See FIG. 13.

Important: Make sure arm assemblies are completely closed before tightening outside screws. This will help in the overall alignment of awning.



6. Repeat step (5) for opposite side.

⚠ WARNING

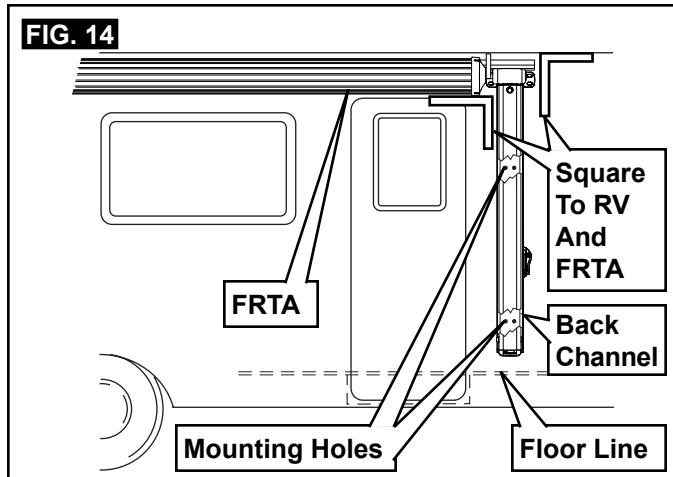
IMPACT OR PINCH HAZARD. Do not remove cotter pin from torsion rod (at end cap) until top casting is secured to hardware, and torsion lock lever is in roll down position. Otherwise, rapid casting spin off will occur. Spring tension will attempt to close the awning quickly and unexpectedly. Failure to obey this warning could result in death, serious injury, or property damage.

7. With torsion lock lever in roll down position, straighten, remove, and discard cotter pin from right end of torsion rod (RH end cap). See FIG. 7 and 13.

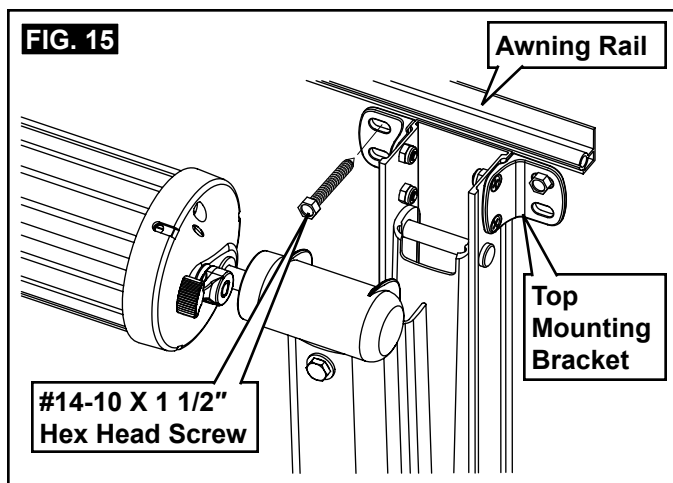
Note: Removing cotter pins will release the factory preset tension. To facilitate removal, you may need to twist the fabric roller tube (as if unrolling awning) by pulling the bottom of tube toward you while pulling on cotter pin.

8. With torsion lock lever in roll down position, and travel latches open, remove nylon ties around front and back channels. See FIG. 5, 6, and 7.
9. Pull on pull strap to open awning approximately 12". Then square back channel to RV and FRTA. See FIG. 14.

Note: Measuring from a door or window frame is acceptable.



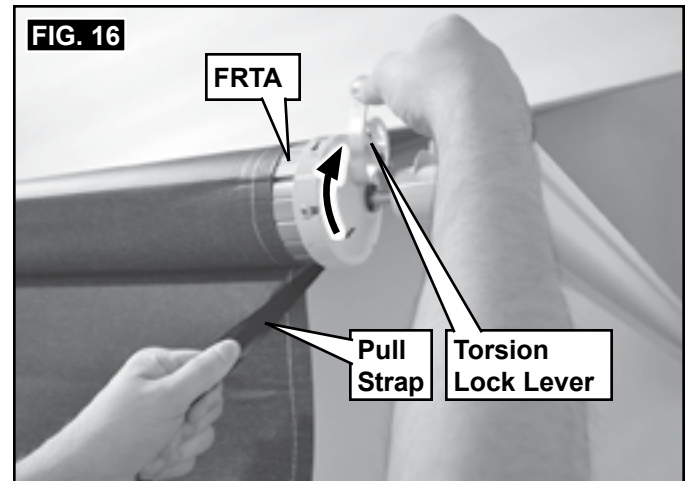
10. Apply sealant to the #14-10 X 1 1/2" hex head screw threads. Then place and tighten one screw through inside slot of top mounting bracket and into solid structure of RV. See FIG. 15.



11. Repeat step (10) for opposite side.

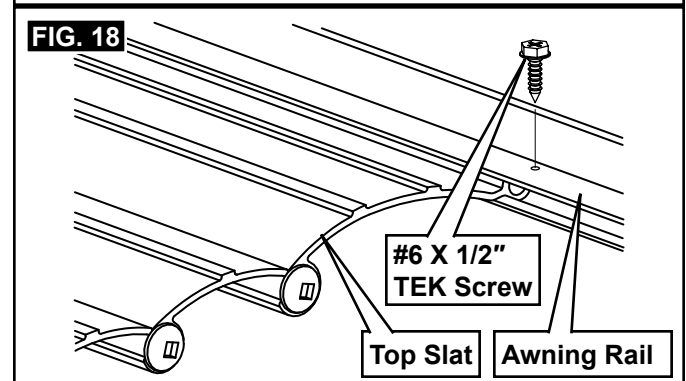
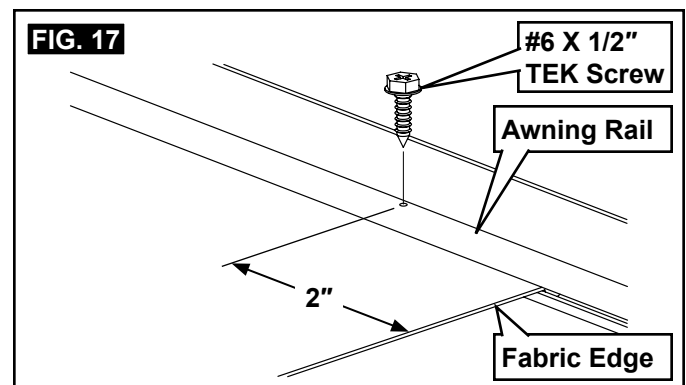
F. Secure Awning Fabric To Awning Rail

1. While holding pull strap, rotate the torsion lock lever to the roll up position. The awning should now roll up snugly against side of RV. See FIG. 7 and 16.



2. Open and close awning four or five times to allow natural self adjustment of awning fabric.
3. Verify alignment of awning fabric, and proper nesting of hardware.
 - a. If there is a misalignment, adjust the arm assembly by loosening the top mounting bracket's bolts and move the bracket accordingly.
 - b. Cycle the awning again to check alignment.
4. Ensure the arm assemblies are still nested properly, then secure awning fabric by installing a #6 X 1/2" TEK screw on each end of awning rail (approximately 2" from fabric edge). See FIG. 17.

Note: For awnings with metal slats, the #6 X 1/2" TEK screw will need to be installed immediately next to metal hinge on each end of awning rail. See FIG. 18.



G. Install Back Channel

NOTICE

Back channels must be installed on a flat surface, and be parallel with each other to ensure proper function and appearance.

1. With awning open approximately 12" - 18", verify back channel is still square to RV and FRTA. See FIG. 14.

⚠ WARNING

IMPACT OR CRUSH HAZARD. Make sure RV has flat, solid structural backing (3/8" to 1/2" thick) where oscar rivets (provided) will penetrate wall. Otherwise, the awning may become unstable and could bend or collapse. Failure to obey this warning could result in death or serious injury.

2. Drill four 3/16" holes through RV's outside wall using the back channel's top and bottom mounting holes as a guide. See FIG. 14.

Note: The back channel's middle mounting holes are optional.

NOTICE

To help prevent water leakage, always use sealant where fasteners enter RV's side wall or roof.

3. Apply sealant to the 3/16" X 1" oscar rivets (provided). Then place rivets through back channel and secure to solid structure of RV. See FIG. 14.

Note: Alternatively, wood screws (OEM supplied) may be used to secure back channel when RV has a solid wood block structural backing.

4. Repeat steps (1) through (3) for opposite side.

H. Secure Awning For Travel

1. Operate awning according to the Operating Instructions to verify all parts are functioning properly.
2. Secure awning for travel. (See "Close Awning" in Operating Instructions.)

Note: For added security, secure travel latches and make sure the torsion lock lever is in the roll up position. See FIG. 7 and 19.

