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Hardware and FRTA
700(XX)(XX).(XXX) and 710(XX)(XX).(XXX)
Fabric Roller Tube Assembly
for
760000(X).4(X0) Hardware

⚠ 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 & OPERATING INSTRUCTIONS

MODEL
700XXXX.XXX FRTA
710XXXX.XXX FRTA
760000X.4X0 Hardware

REVISION

Form No. 3108394.028 7/99
(Replaces 3108394.010)
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LaGrange, IN 46761 |
(French 3109199.004)

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: means if the safety information is not followed someone could be injured or killed and/or damage to equipment could occur.

CAUTION: means if the safety information is not followed someone might be injured or killed and/or damage to equipment could occur.

Read and follow all safety information and instructions.

Learn how to operate the awning properly.

INSTALLATION

COVERED BY PATENTS 5566918, 5383346

OTHER PATENTS PENDING

REQUIRED PARTS (Packed with each Hardware Assembly)

- (4) #8-32 x 2-7/8" Screws (4) #8 Lock Nuts (4) #14 x 2 Hex Head Screws
(4) #14 x 3 Hex Head Screws (2) #6 x 1/2" Tek Screws (4) #10 x 1/2" Self-Drilling Screws
(2) Screw Cover

* Will be replaced with two (2) 1/4"-20 x 1/2" Hex bolt and two (2) 1/4" Lock Washers.
See FIG. 1B below.

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

Application

The A&E Awning is designed and intended for use on Motorhomes, Travel Trailers, and Fifth Wheels with straight sides.

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

Installation Height: Min: 66", Max: 81"

This is the distance between the top mounting bracket and lower mounting bracket, center to center on mounting screws.

Important: Minimum distance from awning rail to door is 7"; if awning has a metal shield, the minimum distance should be increased to 7-1/2" from awning rail to door. When the door falls in the center of the awning, add 1-1/2" to these distances. Mounting height depends on awning type and length. Insure sufficient room is available before starting installation. If questions arise, contact your Dometic Sales Representative.

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

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

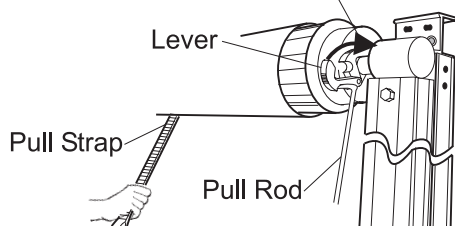
Important: Awning FRTA is shipped with a protective collar around rotor on right side torsion assembly. To prevent accidental damage to rotor while handling do not remove protective collar until fabric is installed in awning rail in Step 4.

⚠ WARNING

Do not remove the cotter pin from right side or 5/16" bolt from left side at this time and Do not rotate the Safe-T-Lock™ Lever until installation is complete. Lever has been preset in the ROLL-OUT position.

FIG. 1

ROLL-OUT



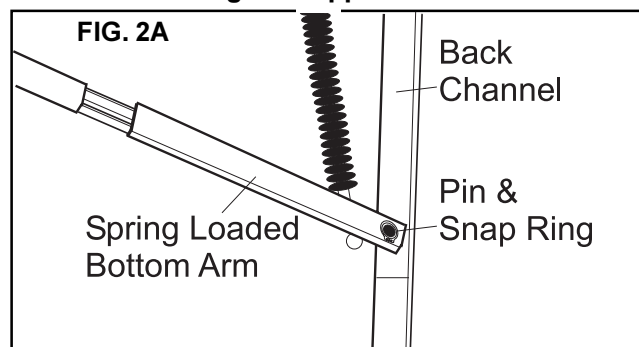
1. Carefully lay the fabric roller tube assembly on a clean, well padded "V" trough to prevent fabric and/or roller cover damage. Remove the hardware from the packaging and place by either end of the FRTA.

⚠ WARNING

The arm assemblies are spring loaded. Do not remove the nylon ties or loosen travel straps until the unit is installed securely to the application. Failure to do this may result in personal injury or property damage.

Secure each front channel to top casting mounted at the end of the FRTA. See FIG. 2B & 2C.

Important: One front channel assembly has a spring loaded bottom arm. This front channel should be installed on awning side opposite door. See FIG. 2A.



- a. FIG. 2b uses two (2) #8-32 x 2-7/8" machine screws and two (2) #8 lock nuts to secure top casting to front channel.
- b. FIG. 2C uses one (1) 1/4"-20 x 1/2" hex bolt and one (1) 1/4" lock washer to secure top casting to front channel.

FIG. 2B

Do Not Remove Right Side Cotter Pin or Left Side 5/16" x 5 bolt, Nylon Ties or Travel Strap at This Time

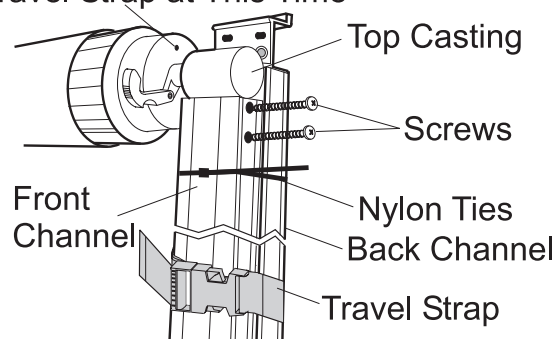
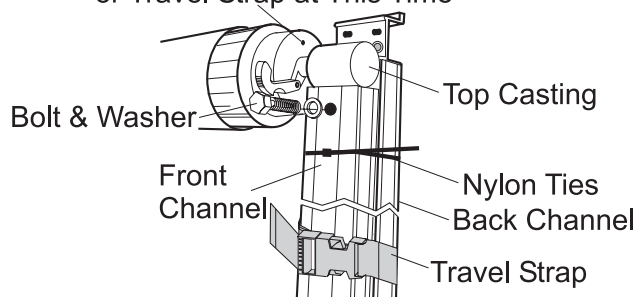


FIG. 2C

Do Not Remove Right Side Cotter Pin or Left Side 5/16" x 5 bolt, Nylon Ties or Travel Strap at This Time

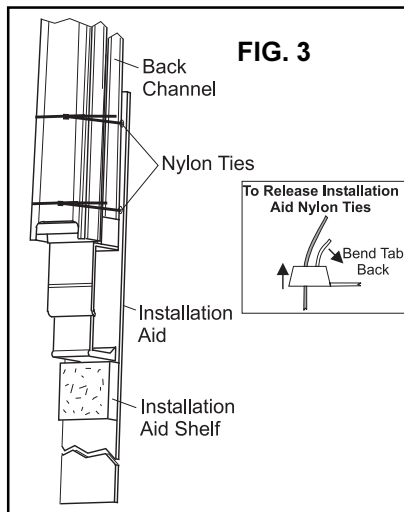


Note: Front Channel and Top Casting will determine which method to use.

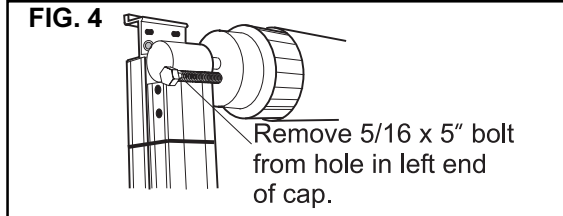
2. Locate the two (2) Installation Aids and the four (4) nylon ties.

Note: Installation Aids included with 70000X.410 hardware only.

They are designed to support the weight of the awning during installation and will be removed after top mounting brackets are installed. There are two (2) sets of four (4) holes each, on either side of the Installation Aid shelf. Determine installation height and position Installation Aid accordingly (High shelf position = high installation height). Thread two (2) nylon ties through upper set of holes as shown in FIG. 3. Secure Installation Aid to back channel by pulling nylon ties snugly. Bottom bracket rests on shelf. Repeat this procedure for opposite side.



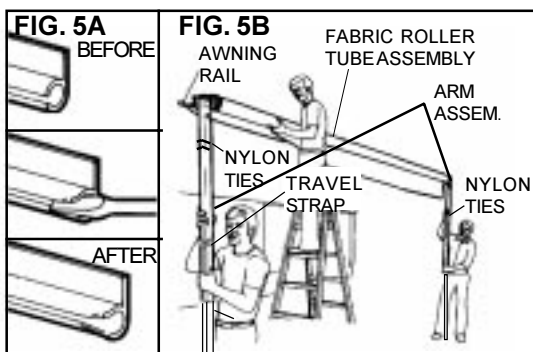
3. Remove the left side 5/16 x 5 bolt at this time. See FIG. 4



⚠ WARNING

Do not remove the right side cotter pin at this time. Awning tension is pre-set and will spin which could cause personal injury or property damage.

4. Prepare the Awning Rail to accept the Awning Fabric. 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. 5A



5. With one person grasping each Arm Assembly, carefully lift the entire assembly to an upright position. Keep the two Arm Assemblies parallel to each other to avoid excessive twisting and possible damage to the assembly. Walk the awning to the end where the Awning Rail was prepared. See FIG. 5B

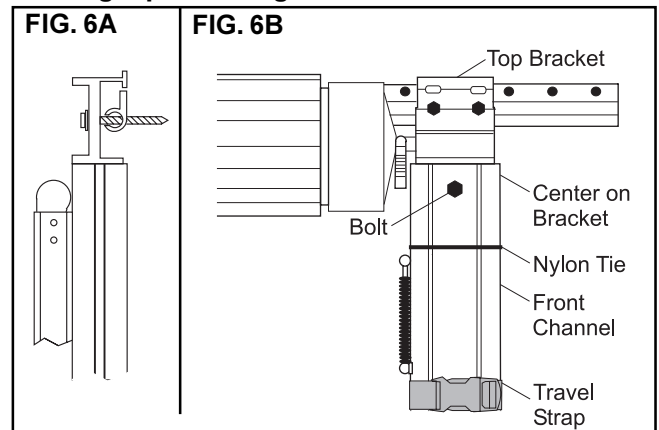
A third person is now required to feed the Fabric into the Awning Rail. The other two will walk the entire Awning Assembly forward and into the desired position.

6. Install Top Mounting Brackets

Note: Remove protective collar around rotor on right side torsion assembly before installing right side top mounting bracket.

After the complete awning assembly has been threaded into the Awning Rail, check that its position allows for solid mounting of the Top and Bottom Mounting Brackets. Also insure that the back channels are in the desired location (not restricting use of doors, access doors, etc.).

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



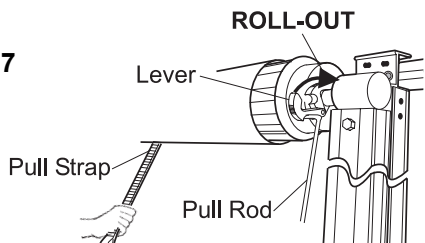
Note: Awning rails with rain gutters may require an extension kit to prevent the FRTA from closing against the rain gutter, causing fabric damage and/or improper operation. These can be obtained through Dometic.

On one arm assembly, place the top bracket in position over the Awning Rail as shown in FIG. 6A & 6B. Top mounting bracket must be installed level with awning rail. Mark the hole position for the Top Bracket and slide the assembly out of the way. Pre-drill the two holes using a 3/16" drill bit (use a 7/32" drill bit if in steel). Install Top Bracket with two #14 x 3" hex head screws. Seal where the screws enter the coach with clear silicon sealant.

At this point the Arm Assembly can support itself. Repeat the same procedure on the opposite arm at the same height. When doing the opposite arm, make sure the hardware is completely closed before tightening the screws. This will help in the overall alignment of the awning.

Before doing the next step, remove both installation aids if used. Also remove the cotter pin from the right side of FRTA. To easily remove cotter pin follow these steps:
1. Make sure the Safe-T-Lock™ Lever is in the **ROLL-OUT** position.

FIG. 7



2. Grasp the FRTA from underneath and rotate it slightly toward yourself to relieve some of the tension.
3. Remove cotter pin.

⚠ WARNING

When cotter pin is removed, springs are under tension and cylinders on arms are under pressure.

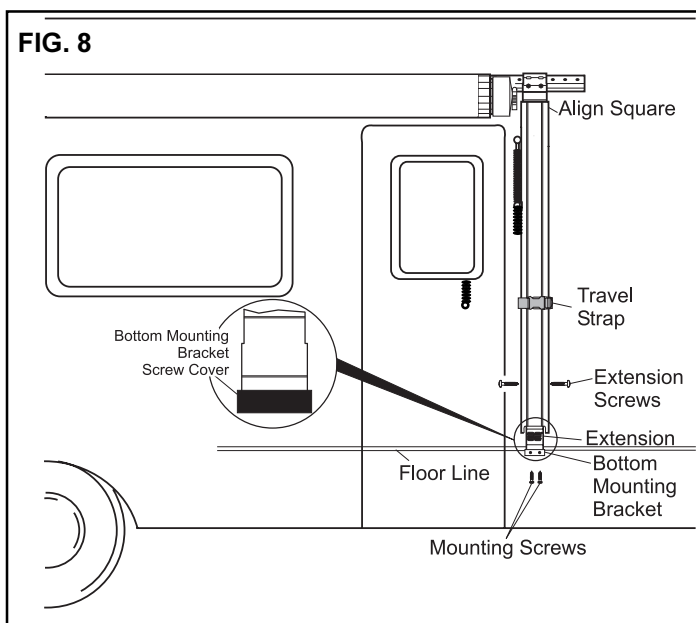
7. Install Bottom Mounting Brackets

Locate the floor line of the application. This is the area needed to mount the bottom brackets for maximum strength. Usually this is located just at or above the lower trim line. Place the extension inside arm assembly and adjust as needed so the mounting holes in the bracket are in line with the middle of the floor line. When the vertical location is established, the arms should be squared with the vehicle and each other. A door or window frame can be used to measure. When squared, mark the hole locations and pre-drill the holes using a 3/16" drill bit. Move the bracket into place and secure with two #14 x 2" hex head screws.

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

Seal where the screws enter the coach with clear silicon sealant. Repeat the procedure for the opposite end. Snap screw cover in position. See FIG. 8

FIG. 8



8. Securing Extensions

To secure the extension, first locate the two holes on the sides of the back channel, one per side. Use these holes as a guide and use a #10 x 1/2" self drilling screw to secure the extension to the back channel. Repeat this

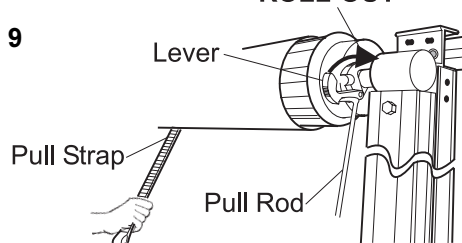
procedure on the opposite end. See FIG. 8

9. Initial Adjustment of Awning

1. Make sure 5/16" bolt was removed in Step 3.
2. Make sure cotter pin was removed in Step 6.
3. Remove nylon ties wrapped around front and back channels. See FIG. 6B
4. Release Travel Straps
5. Rotate the Safe-T-Lock™ Lever to the **ROLL-OUT** position.

ROLL-OUT

FIG. 9



6. Use the pull rod provided to pull the awning to its full out position.
7. 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, close the awning and lock one arm properly in place. Adjust the other arm by loosening the upper mounting bolts and moving the bracket accordingly. Cycle the awning again to check the alignment.
8. When satisfied with the alignment, secure fabric or fabric roller cover by driving a #6 x 1/2" Tek screw through the rail and into the fabric rope. Repeat at opposite end. See FIG. 10A & 10B for screw location. The installation is now complete and the awning is ready for use.

FIG. 10A
Two Step w/ Metal Shield

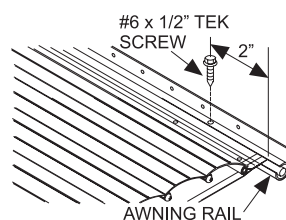
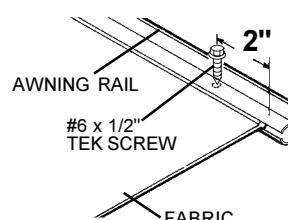
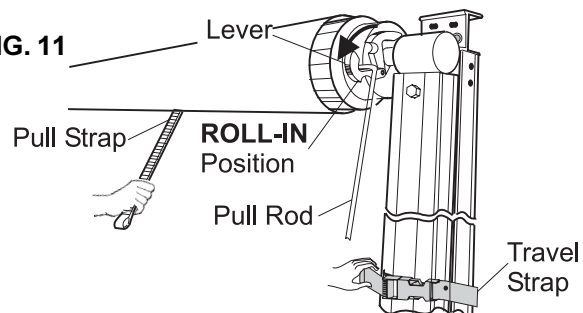


FIG. 10B
Two Step w/ Vinyl Shield



9. If awning will not be used after installation, close and secure.
 - a. Make sure Safe-T-Lock™ Lever is in the **ROLL-IN** position.
 - b. Secure each arm assembly by fastening each travel strap and pulling on the loose end of the strap to tighten. See FIG. 11

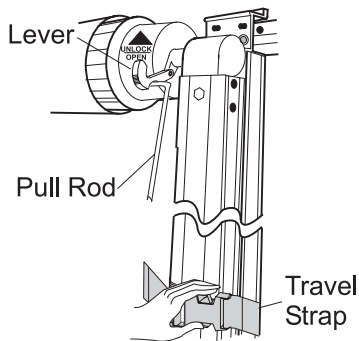
FIG. 11



OPERATING INSTRUCTIONS TO OPEN

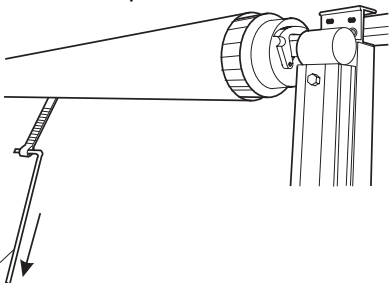
1. Release the travel strap located midway up each arm assembly by squeezing the travel strap buckle to release. See FIG. 12
2. Use the pull rod provided to rotate the Safe-T-Lock™ Lever to the **UNLOCK-OPEN** position. See FIG. 12

FIG. 12



3. Locate the pull strap and insert the right angled end of the pull rod into the loop. See FIG. 13

FIG. 13



4. Walk backward with the pull rod in hand while pulling on the strap and opening the awning. See FIG. 14

FIG. 14

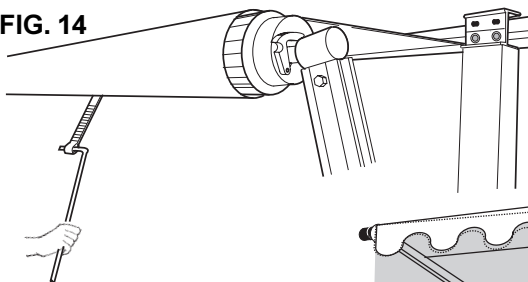
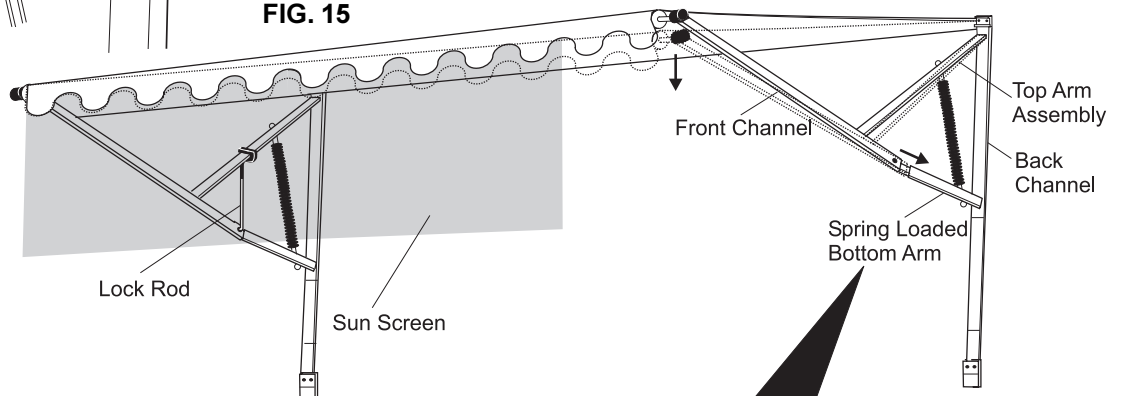


FIG. 15



5. When the awning is mostly open, stand in one spot and pull the strap until the awning stops. At this point the bottom arm assembly and front channel should be very close to being in a straight line. See FIG. 15

6. The awning is now completely open and ready for use.
Note: Your hardware contains one (1) lock rod. The awning is completely operational without this item installed. If you choose to install them proceed to Step 7.

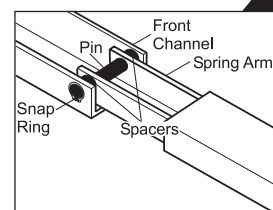
7. When installed, the lock rod will stabilize the knee joint between the front channel and the bottom arm assembly. This will keep one side of the awning in a semi-fixed position while the opposite side will flex. Lock rod may be installed on either side. Locate lock rod and insert bottom of rod through the hole in front channel while slipping the top over the top arm assembly. When properly installed the rod should be near parallel with the back channel. See FIG. 15

Note: Also included in hardware kit is a sunscreen. During certain conditions you may want to use the sunscreen to create additional shade.

8. Locate sunscreen and slide in the groove located in the left end of the roller tube.

CAUTION

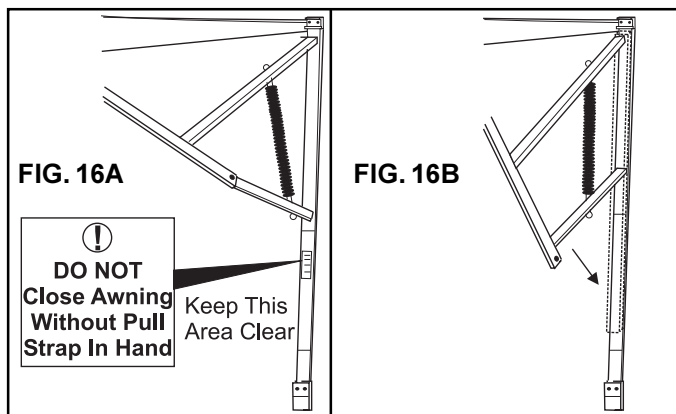
The A & E Two Step awning is extremely durable and can be operated during moderate rain and wind conditions. However, when periods of heavy rain and/or wind is expected the awning should be closed and in the locked position. Damage caused by wind and rain is not covered by warranty.



TO CLOSE

⚠ CAUTION

When awning is closed, bottom arm assembly will fold down and against back channel. To avoid personal injury and/or property damage, keep space beneath bottom arm assembly clear of objects and people.



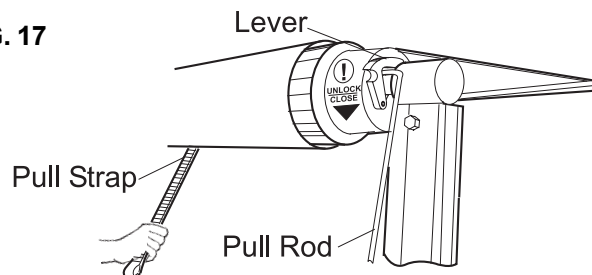
1. Remove lock rod and sun screen if installed.
2. Locate the pull rod and the pull strap.

⚠ CAUTION

Have a firm grip on the pull strap before moving the Safe-T-Lock™ Lever to the UNLOCK-CLOSE position. Do not allow the awning to close uncontrolled. Damage to the awning and/or RV may occur.

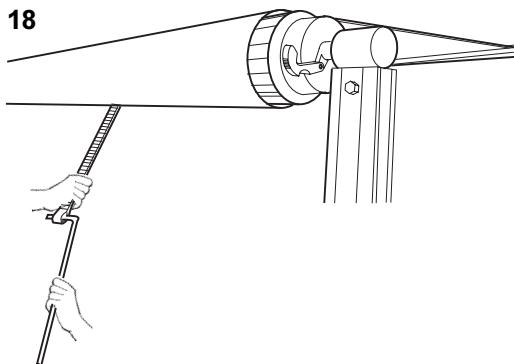
3. In one hand gently pull on the strap while using the pull rod to flip the Safe-T-Lock™ Lever to the UNLOCK-CLOSE position. See FIG. 17

FIG. 17



4. Before the awning begins to roll up, insert the end of the pull rod in the pull strap loop and let the awning roll in, controlling the speed with the rod in hand. See FIG. 18

FIG. 18



5. Push bottom of front channel to close, if necessary. See FIG. 19
6. Secure each arm assembly by fastening each travel strap and pulling on the loose end of the strap to tighten. See FIG. 20

FIG. 19

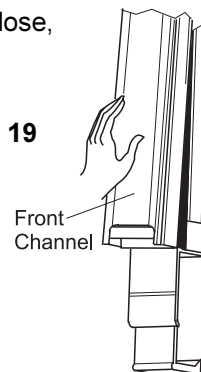
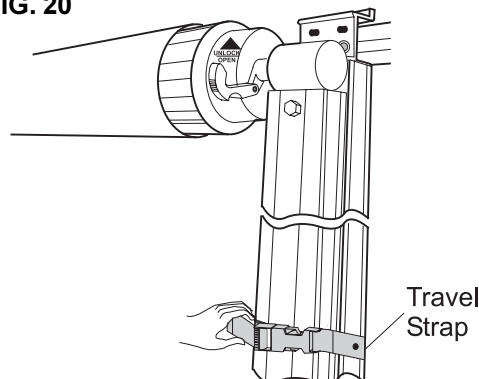


FIG. 20



7. The awning is now completely closed and secure.

A&E HELPFUL HINTS

- Whenever the awning gets wet while rolled up, as soon as conditions allow, roll it out and let it dry before rolling it up again. This will help prevent the formation of mildew, and add greatly to the life of the awning.
- Mildew cannot form on the vinyl fabric; only on dust and dirt. Periodically clean the vinyl fabric using a mixture of 1/4 cup of dish soap and 1/4 cup of bleach mixed with 5 gallons of warm water. Liberally slosh the mixture on the top of the fabric and roll the awning up for 5 minutes. This will apply the mixture to the bottom as well. Roll it back out and hose off with fresh water. Repeat if necessary. Allow to dry before rolling up.
- Always make sure the awning is extended high enough before opening entry door.

WHEN TO GET MORE HELP

This Installation & Operating Instruction Manual is intended to provide practical instruction for the sequential operation of the A&E Two Step Patio Awning. If malfunctions occur that cannot be corrected by reviewing this manual, they should be directed to a qualified Dometic service technician.