



EE HORIZON

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**For Service Center
Assistance Call:**
800-544-4881

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
920(XX)(XX).000(#)
920(XX)(XX).020(#)

REVISION:
Form No. 3310426.022 7/07
(Replaces 3310426.014)
(French 3310427.020)
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LaGrange, IN 46761 U.S.A.

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.

GENERAL INFORMATION

A. Application

The Horizon Case Awning is designed for use on vehicles that cannot accept a full sized awning. It is especially well suited for vehicles with an over cab extension where there is not sufficient surface for a bottom mounting bracket.

B. Position Of The Awning

1. Before beginning installation of the case, be sure the door will open when the awning is completely extended. Allow for at least a 15-degree pitch of the fabric of the awning.
2. Check for a solid backing or under-structure where screws and adapters are to be used. For installations with mounting brackets, be sure that all mounting brackets are secured in a very solid manner.
3. Before drilling, be sure that there are no obstacles inside the wall (cables, wires, gas pipes, etc.). Having evaluated the construction of the vehicle, pick the mounting style which best fits the application. See Figures 3 & 4.
4. Minimum clearance from bottom of case to door is 3.00 inches.

Important: Read all of the following steps before beginning installation.

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

LIST OF HARDWARE:

8'-13' Models Only:

- (2) - Bottom Rafter Mounting Bracket
- (8) - 10-12 X 1.00"L Sheet Metal Screw
- (3) - Mounting Bracket 6"
- (6) - 1/4-20 X 2.00"L Carriage Bolt
- (6) - 1/4 Split Lock Washer
- (6) - 1/4 Flat Washer
- (6) - 1/4-20 Locknut With Nylon Insert
- (3) - 8-18 X .38 Self Drilling Pan Head Cross Screw

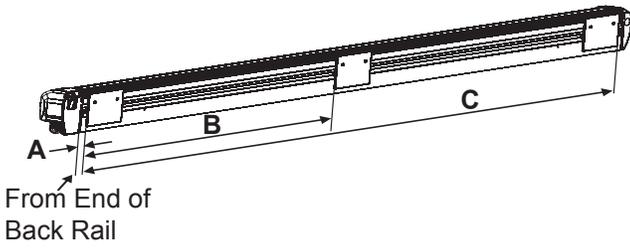
Additional Quantities (HARDWARE): 15' Model only

- (1) - Mounting Bracket 6"
- (2) - 1/4-20 X 2.00"L Carriage Bolt
- (2) - 1/4 Split Lock Washer
- (2) - 1/4 Flat Washer
- (1) - 8-18 X .38 Self Drilling Pan Head Cross Screw

16' Model Only:

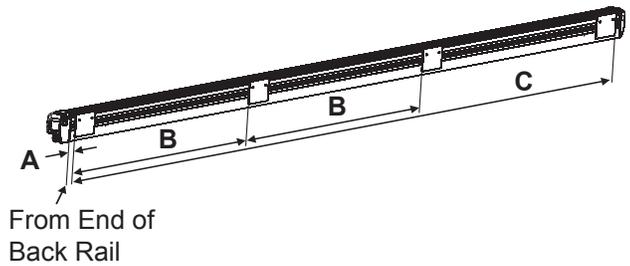
- (2) - Bottom Rafter Mounting Bracket
- (8) - 10-12 X 1.00"L Sheet Metal Screw
- (2) - Mounting Bracket 6"
- (2) - Mounting Bracket 18"
- (8) - 1/4-20 X 2.00"L Carriage Bolt
- (8) - 1/4 Split Lock Washer
- (8) - 1/4 Flat Washer
- (8) - 1/4-20 Locknut With Nylon Insert
- (4) - 8-18 X .38 Self Drilling Pan Head Cross Screw

FIG. 1A: 8'-13' MODEL BRACKET SPACING



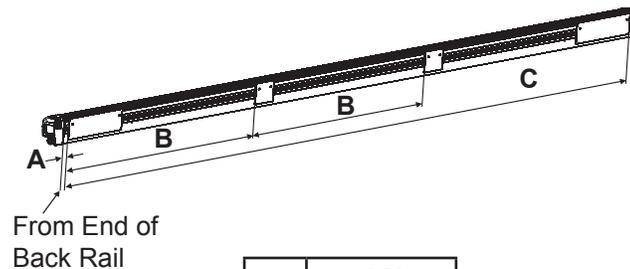
	8'	10'	12'	13'
A	1"	1-1/2"	1-1/2"	1-1/2"
B	44"	53-1/4"	63-1/8"	73"
C	93-7/8"	112-1/2"	132-1/4"	151-7/8"

FIG. 1B: 15' MODEL BRACKET SPACING



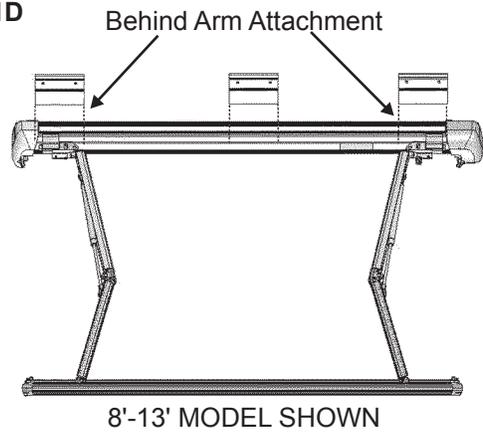
	15'
A	1-1/2"
B	55-1/8"
C	171-1/2"

FIG. 1C: 16' MODEL BRACKET SPACING



	16'
A	1-1/2"
B	57-3/4"
C	191-1/4"

FIG. 1D



INSTALLATION INSTRUCTIONS

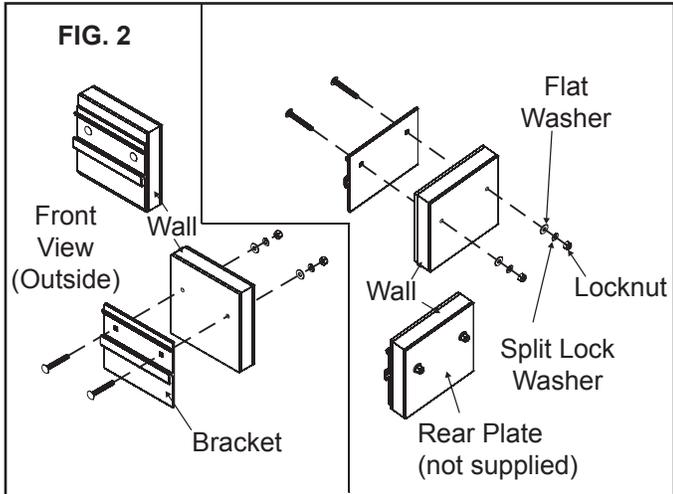
A. Installation Using Standard Brackets

1. Determine locations of mounting brackets on side of vehicle. See FIG. 1A, FIG 1B, and FIG 1C.
2. The left and right brackets must be mounted behind where the arms are attached. (See FIG. 1D) The outside edge of the bracket must be aligned with, but not protruding beyond, the edge of back of the aluminum case. See FIG. 1A for the 8'-13' models. See FIG. 1B for the 15' models, and FIG. 1C for the 16' models, which use 4 brackets evenly spaced.
3. Mark the wall bracket position. Using a bracket as a template, mark the hole locations. Pre-drill holes using a 5/16" drill bit (use 7/32" drill bit if drilling through steel). Install top brackets with 1/4-20 X 2"L carriage bolts, nuts and washers provided.

⚠ CAUTION

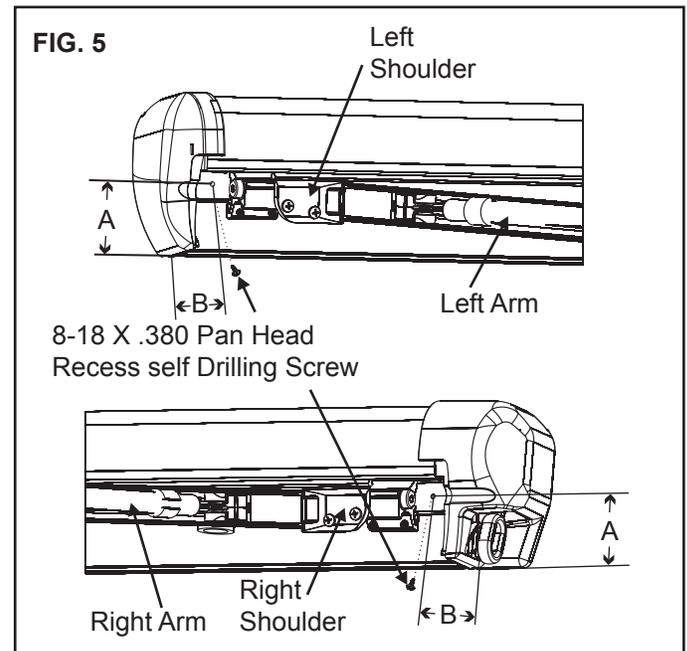
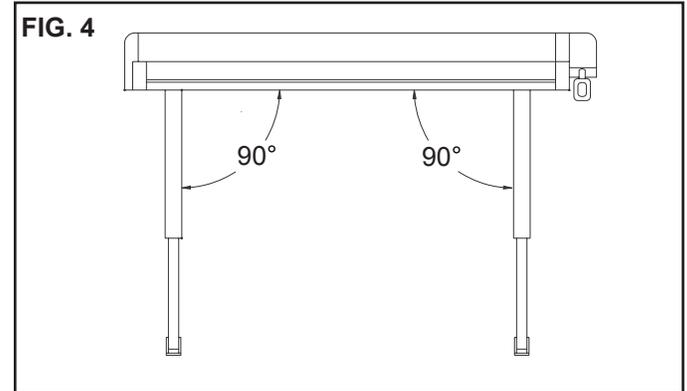
To prevent water leakage, always use silicon sealant where each fastener enters the vehicle side wall or roof.

4. If mounting area sub-structure is not solid, we recommend using a backing plate (not provided) inside the vehicle. See FIG. 2.
5. After the wall brackets are installed, using a pencil, mark location of edges of brackets on the wall. Draw the marks approximately 2" below the bracket. These marks will later help you identify the location of the brackets for installation of the 8-18 X .38" self-drilling screws.



6. Set the awning on mounting brackets. Open awning 18". Using the pencil marks as a guide, drive supplied 8-18 X .38" self-drilling screws into case back cover and through wall bracket as shown in Figure 5.

CAUTION
DONOT over-tighten fasteners. This will cause them to "strip out" and severely weaken their holding ability.



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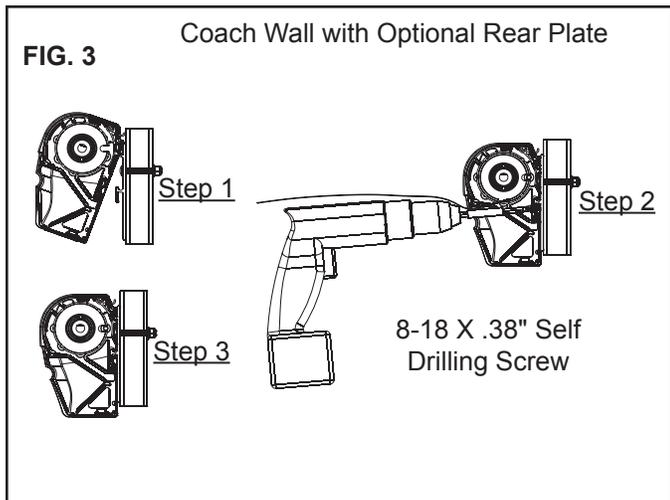


Table 1: Screw Location

Awning Length / A and B Indicate Mounting Screw Location						
	8'	10'	12'	13'	15'	16'
A	2 1/4"	2 1/4"	2 1/4"	2 1/4"	2 3/4"	2 3/4"
B	1 3/4"	2 1/4"	2 1/4"	2 1/4"	2 1/4"	14 1/4"

CAUTION
 To prevent water leakage, always use silicon sealant where each fastener enters the side wall or roof of the vehicle.

B. Secure Back Cover To Mounting Brackets

1. Position and drive a 8-18 X .38" pan head self drilling screw into location indicated by Table 1: Screw Location. See FIG. 5

C. Installation Of Bottom Mounting Brackets

Important: Always mount into solid under-structure.

1. Location of bottom mounting brackets must be set so that upright legs are vertical when retracted from case. See FIG. 4. To determine the location of bottom mounting bracket, fully extend awning per Operating Instructions below. Unfold legs from lead rail. (See FIG. 8) Pull adjustment knob and extend leg until the fabric is at approximately a 10-degree pitch.
2. Swing one leg toward vehicle sidewall. Extend leg until foot reaches intended wall bracket mounting location and 10-degree fabric slope is maintained. Mark location on side of vehicle to maintain this height. See FIG. 6. Repeat for other leg.

IMPORTANT: Foot wall bracket must be installed in a location with adequate reinforcement in and behind the wall.

4. Using the holes in the brackets as a guide, mark and drill using a 5/32" drill bit. Secure each bracket to vehicle using the 10-12 X 1"L pan head sheet metal screws provided.
5. If mounting area sub-structure is not solid, use oscar rivets(not supplied). (FIG. 6)

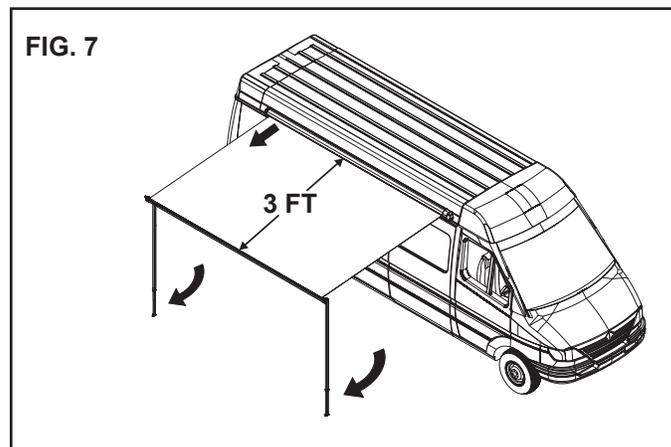
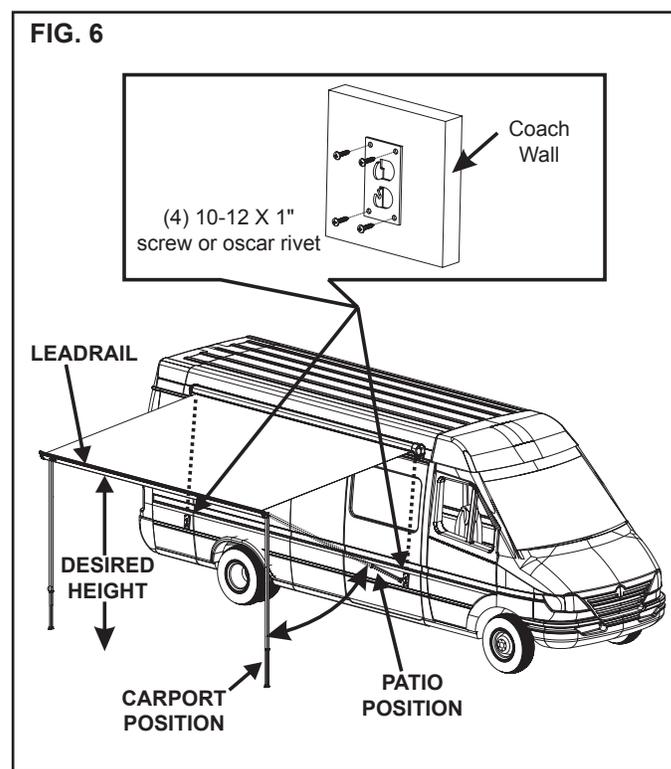
OPERATING INSTRUCTIONS

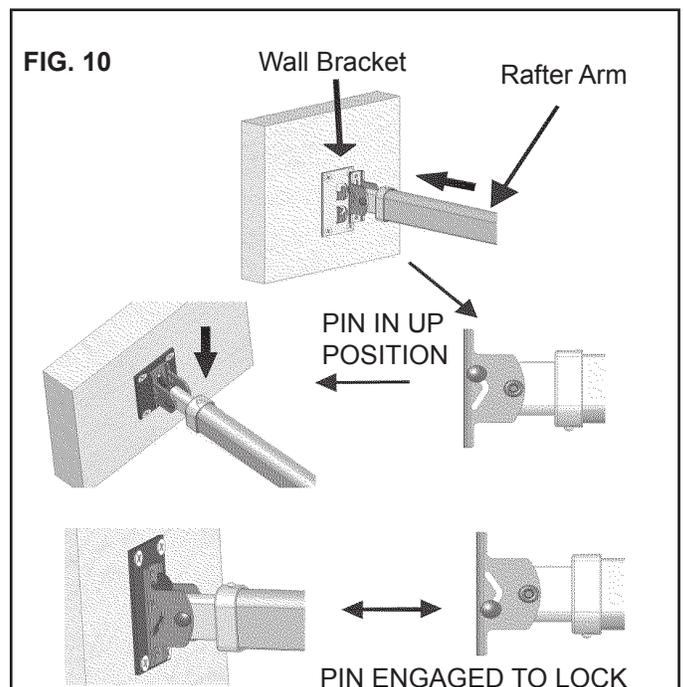
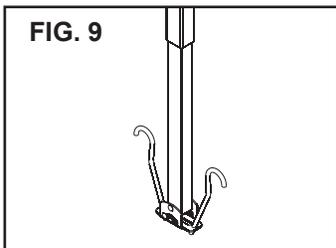
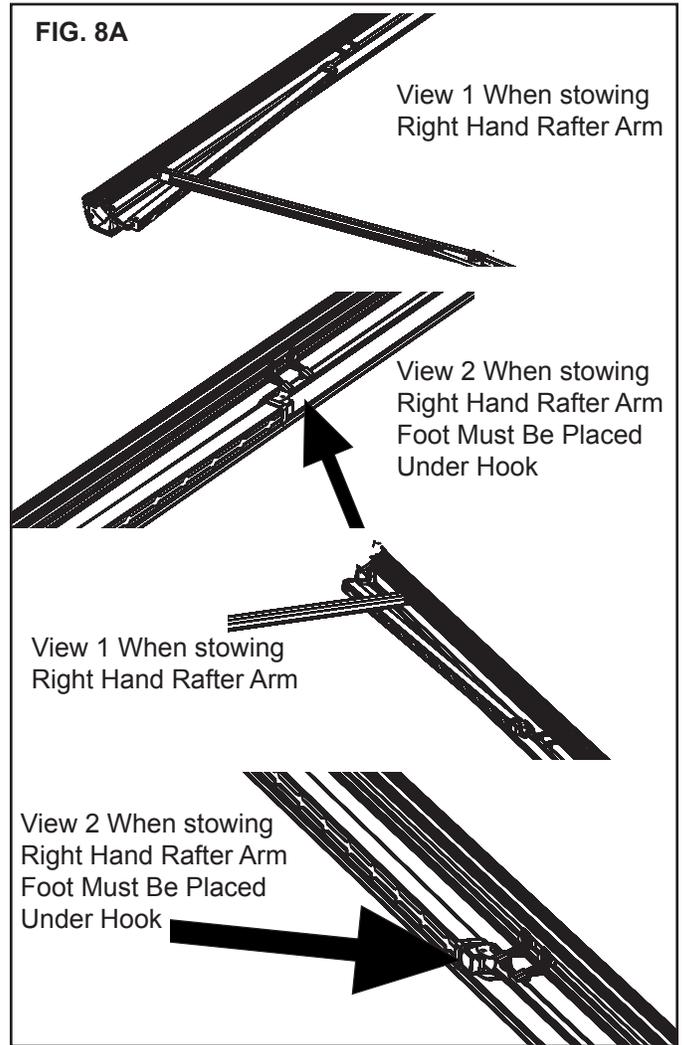
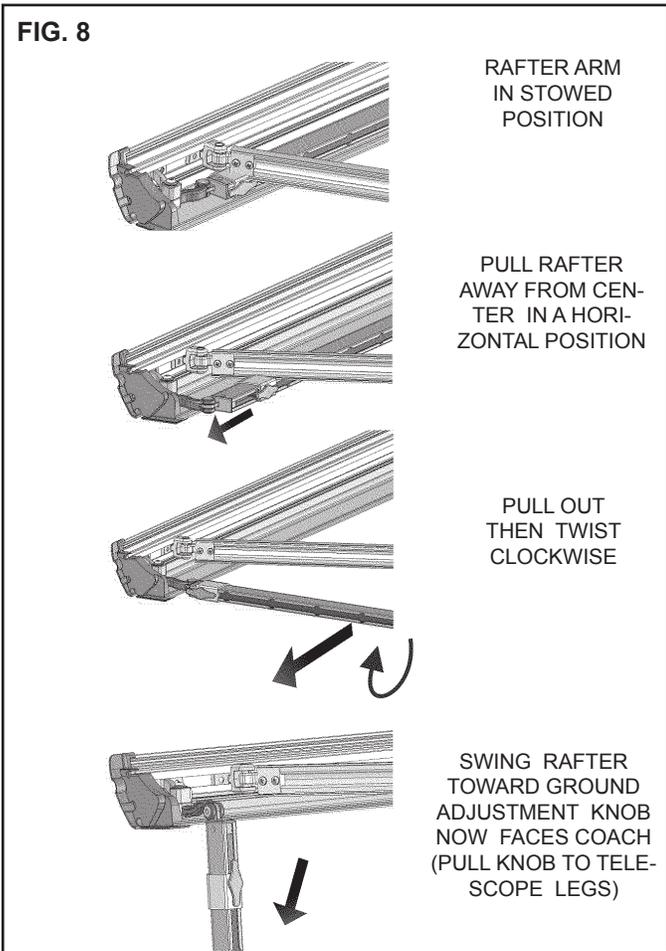
A. To Open

1. Place the hook of the crank into the eye of the gear and unroll the awning approximately 3 feet.
2. Next, per FIG. 8, remove the legs. Legs can be extended by pulling the spring loaded adjustment knob and allowing the leg to telescope.

IMPORTANT: Remember to extend the legs to the ground after approximately 3 feet of the canopy is extended. This reduces any strain on the walls/brackets of the vehicle. See FIG. 7.

3. Then fully extend the awning. The awning will be fully extended when fabric starts to sag. After this occurs, roll awning back 1/4 turn to reach maximum tension.
4. Stake the legs to the ground directly under the leadrail (carport position) or place feet in wall brackets (patio position). See FIG. 9.





5. For patio position, engage the support arm foot into the bottom mounting bracket. See FIG. 10.
6. Roll up the awning a little - until the fabric is taut.

B. To Close

1. Remove stakes if in the carport position, or from wall bracket if in patio position.
2. Place the hook of the crank into the eye of the gear and roll awning up, to within 3-feet of being closed. Lower the lead rail as required if the awning is in the carport position.
2. Pull the adjustment knob, and retract the support arms until knob is in top most hole.
3. Using FIG. 8 as reference, reverse the steps to properly stow the support arms into the leadrail. Support arm foot must be between the leadrail and stow clip. See figure 8A.
4. Finish rolling up awning.

⚠ CAUTION

Fabric must roll around roller tube from bottom of roller tube.

C. Other Operation Notes

Important: We remind you that the awning is to shelter you from the sun, not from rain, wind or snow.

1. To resist unexpected gusts of wind, it is always best to set awning legs into the patio position. If carport position is to be used, be sure that the awning feet are properly staked into the ground. For further protection we recommend the ends of the awning leadrail be tied with straps (not provided) and staked to the ground.
2. If heavy wind and/or rain conditions exist, retract awning and place in storage position!

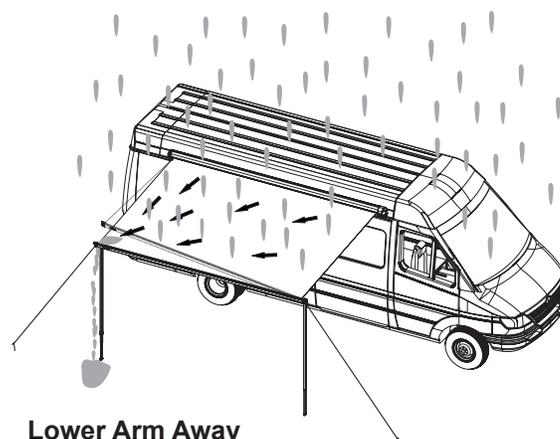
Important: Never leave the awning in a position that causes the fabric to have no slope. Adjust both arms of the awning 5 to 6 adjustable arm holes below awning rail (fabric slope approximately 10 degrees).

⚠ WARNING

Water Pooling Hazard: Whenever rain is expected the awning must be placed in the storage position. Pooling of water on top of the awning fabric, will make the awning unstable causing the arms and roller tube to bend or collapse. Never release adjustment knob with water pooled on canopy. This will result in personal injury, death and damages to the awning and/or recreational vehicle.

3. If light rains are expected, place the awning in the water shed position. See FIG. 11

FIG. 11

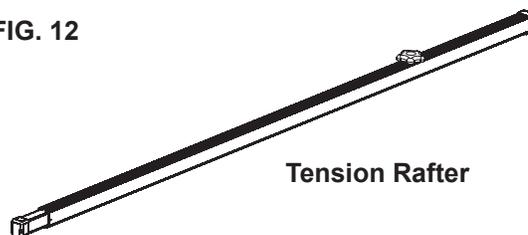


**Lower Arm Away
From Door 5-6
Additional Holes.**

Note: The awning is designed with a water dump feature that will lower one side of the awning to allow water to run off. Before the water dump feature will operate as designed, lower both arms 5 to 6 holes (fabric slope approximately 10 degrees) below the coach awning rail. See FIG. 11. The water dump feature will not work if awning slope is zero degrees or near zero degrees.

4. The 13 ft -16 ft awnings come with a tension rafter assembly. FIG. 12
 - a. Position the square nut inside the small tension rafter. Align the threaded hole on the square nut to the hole on the small tension rafter as shown in figure 13.
 - b. Guide the knob's threaded stud through the

FIG. 12



Tension Rafter

- hole and turn until it engages the nut.
 - c. Slide the small tension rafter inside the large tension rafter as shown in figure 14.
5. Tension rafter application.
 - a. Lower the Front Bar to an accessible shoulder level by lowering the rafter arm.
 - b. Place large end against the center of the back cover of the case as shown. See Figure 15.
 - c. Extend tension rafter, placing small end in front bar as shown approximately 6" off the center of the front bar.
 - d. Tighten knob.
 - e. Pull small end of tension rafter to the center of the front bar. This will tension the fabric.
 - f. If front bar was lowered, raise to the desired height.

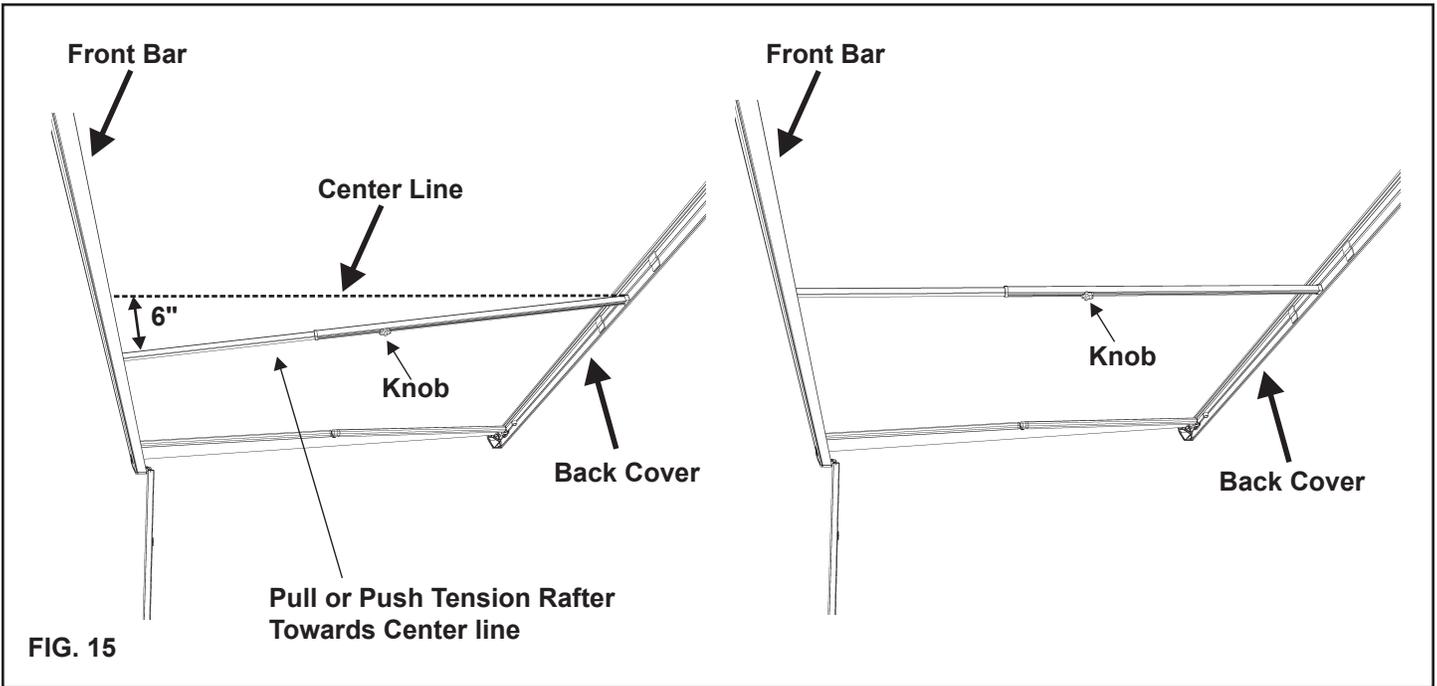


FIG. 15

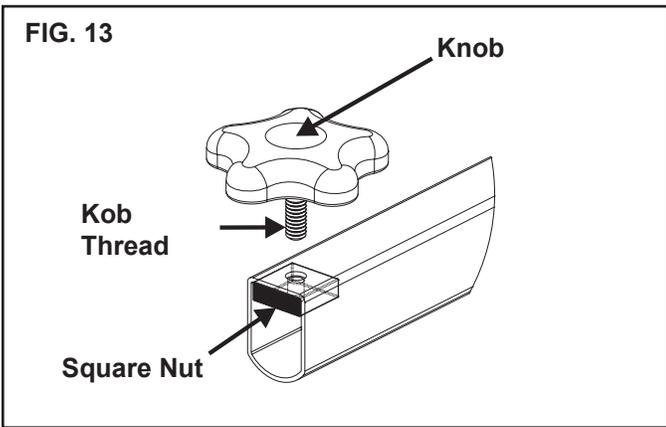


FIG. 13

⚠ CAUTION
 Failure to properly use the tension rafter could result water pooling in a manner that will prevent the rain shed device from functioning properly.

OWNER MAINTENANCE ITEMS

1. Lubricate the rafter arms and support arms using parafin wax or silicone spray.
2. Periodically clean the awning fabric with 1/4 cup of dish soap and 1/4 cup of bleach mixed with 5 gallons of warm water. Allow to dry before rolling awning back up.
3. Mildew cannot form on the fabric, but rather will form on dirt or dust on the fabric. The key is to keep the fabric clean.
4. To remove grease spots from vinyl fabrics, use only a soap and water solution. Avoid use of caustic household cleaners, mildew removers or hard bristle brushes.
5. Occasionally the awning may develop a pinhole, actually a spot of paint flakes off from the top layer of vinyl. This may be quickly remedied with a very small dab of VLP (Vinyl Liquid Patch) on the tip of a Q-tip®. By gently rolling the Q-tip® around the pinhole, the VLP will melt the paint (in the stripe) and that will quickly fill in the pinhole with a perfect match. Be sure to wait until the VLP (Dometic P/N 143498) sets before rolling up the awning.
6. Always make sure the awning is extended high enough before opening entry door.
7. Lower one end of awning for proper water run-off and to avoid water pooling.

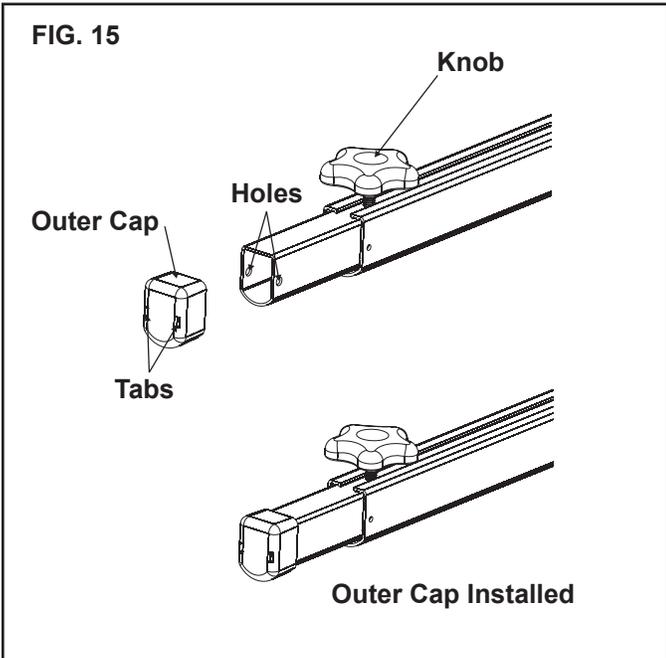


FIG. 15