

HORIZON

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 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

97(X)(XX)(XX).065

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 can not 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 a natural downward slant 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 4 & 5.
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:

- (4) - 5x30mm Pan Head Sheet Metal Screw
- (2) - 50X30X2mm Rubber Pad
- (2) - Double Screw Tip Cover
- (2) - Bottom Bracket
- (2) - 4X20mm Pan Head Sheet Metal Screw
- (2) - Plastic Crank Arm Clip
- (2) - 120X120mm Bracket
- (2) - 80X120mm Bracket
- (3) - 40X80mm Steel Plates
- (6) - 28mm Dia. Rubber Washer
- (6) - 5X45mm Carriage Bolt
- (6) - Lock Nut (Nylok) for 5X45mm Carriage Bolt
- (3) - 4X12mm Pan Head Machine Screw
- (3) - Lock Nut (Nylok) for 4X12mm Machine Screw
- (3) - Plastic Carriage Bolt and Nut Cover

FIG. 1

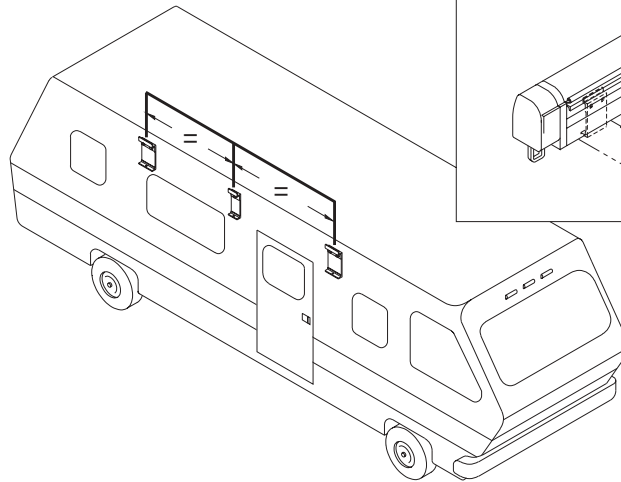


FIG. 2

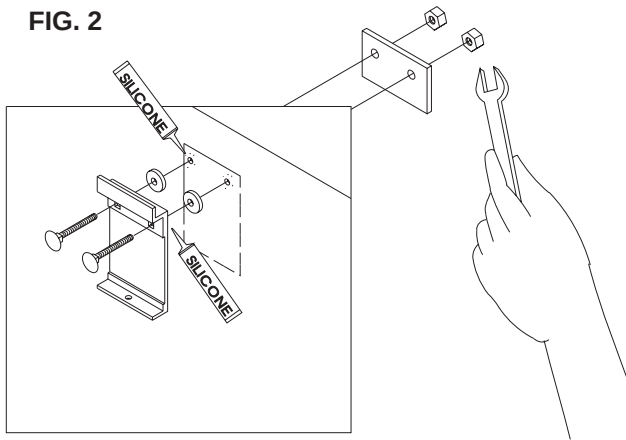
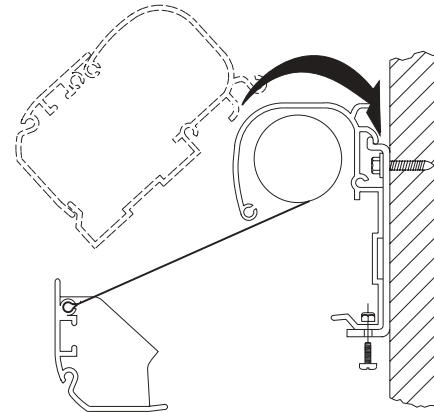


FIG. 3



INSTALLATION INSTRUCTIONS

A. Installation Using Standard Brackets

1. Determine locations of mounting brackets on side of vehicle. The center mounting bracket should be of equal distance between front and rear brackets. See FIG. 1.
2. Mark the top bracket position and pre-drill holes using a 3/16" drill bit (use 7/32" drill bit if drilling through steel). Install top brackets with 5X45mm carriage bolt provided.

CAUTION

DO NOT over-tighten fasteners. This will cause them to "strip out" and severely weaken their holding ability.

3. If mounting area sub-structure is not solid, we recommend using nuts and bolts and backing plate inside the vehicle. See FIG. 2.

CAUTION

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

4. Set the awning on mounting brackets. Using hole in bottom mounting leg of mounting bracket, drill a 3/16" dia. hole into bottom of awning case. Install a pan head machine screw and nut as shown in FIG. 3. Repeat for other brackets.

FIG. 4

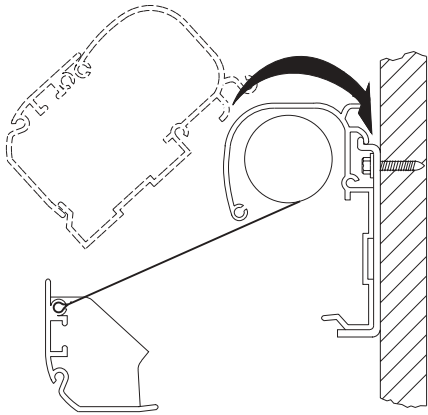
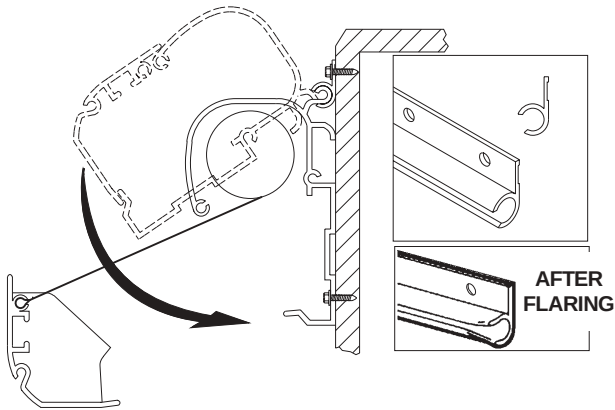
WITH MOUNTING BRACKETS

FIG. 5

**WITH OPTIONAL AWNING RAIL
(NOT PROVIDED)****B. Optional Awning Rail Installation
(See figure 4)**

1. Because the cantilevered force is concentrated on the upper-side of the case, be sure that the awning rail is several inches longer than the awning case at both ends.
2. To aid in installation, flare end of awning rail BEFORE attempting to slide awning into rail. See FIG. 5.

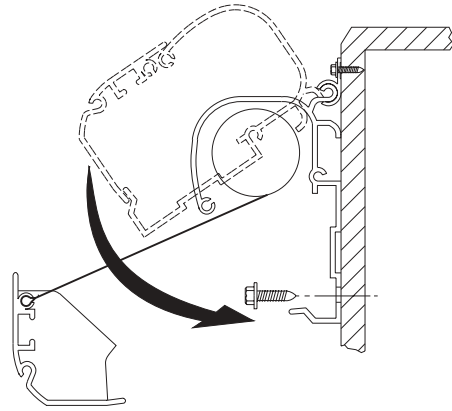
Note: On shorter awning with straight awning rail, awning can be tipped into rail. See FIG. 6.

3. When using the awning rail, it is necessary to fasten the awning securely to the side wall of the vehicle. Using a 1/4" drill bit, drill a hole at the center of the awning. See FIG. 6.

Important: Do not drill into the side wall yet.

4. Within 1 to 2 feet of the end of the awning, drill another hole using a 1/4" drill bit. Repeat for the other end.
5. Using a 3/16" drill bit (7/32" bit if drilling into steel) and using the 1/4" holes drilled in Steps 2 and 3 above as guides, drill into the side wall of vehicle. Install the supplied 5X45mm carriage bolts and tighten.

FIG. 6

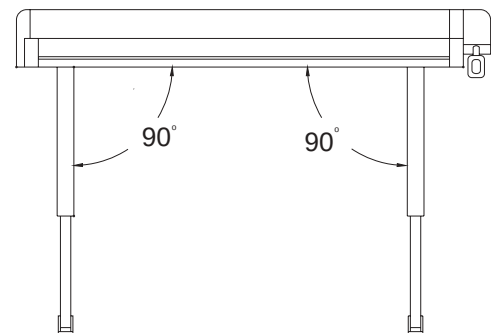
**CAUTION**

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

⚠ CAUTION

DO NOT over-tighten fasteners. This will cause them to "strip out" and severely weaken their holding ability.

FIG. 7

**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. 7. To determine the location of bottom mounting bracket, fully extend awning. Remove arms from lead rail and place against side of vehicle. Loosen black adjustment knob and extend arm until lead rail is at desired height. Mark location on side of vehicle to maintain this height. See FIG. 8.

CAUTION

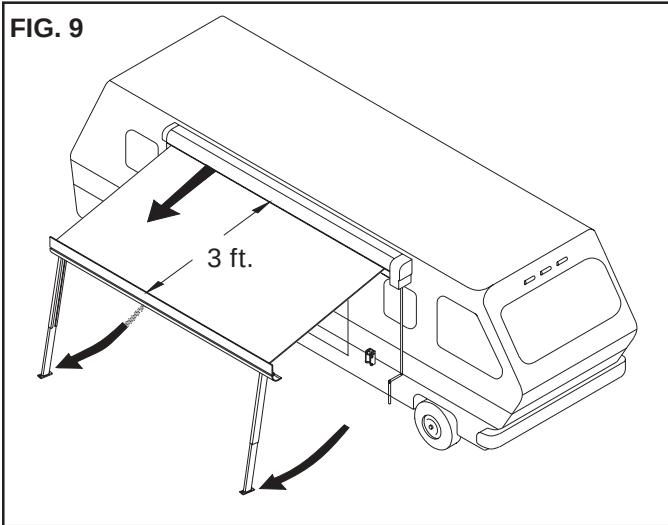
To prevent damage to the fabric during drilling, unroll the fabric completely and adjust the legs to their highest position while keeping the fabric horizontal.

- 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 5X30mm pan head sheet metal screws provided.
- If mounting area sub-structure is not solid, use backup plate inside the vehicle. (FIG. 8)

OPERATING INSTRUCTIONS

To assist in the awning setup, locate 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. 9.

FIG. 9



- Loosen the lock knobs on the support arms and slide each arm away from the center of the lead rail. Swing each arm downward to the ground. See FIG. 10.

FIG. 10

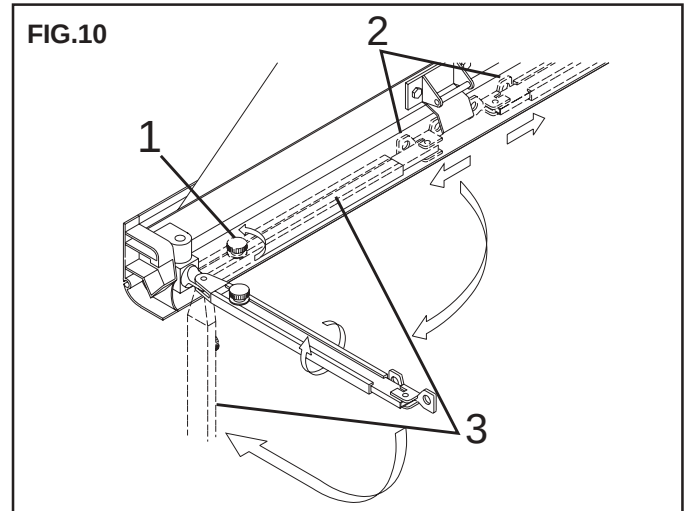
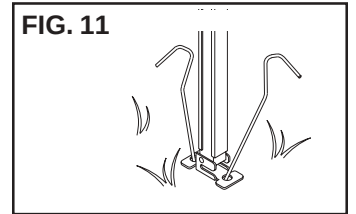


FIG. 11

- For car port position, stake the support arms to the ground with stakes provided. See FIG. 11.

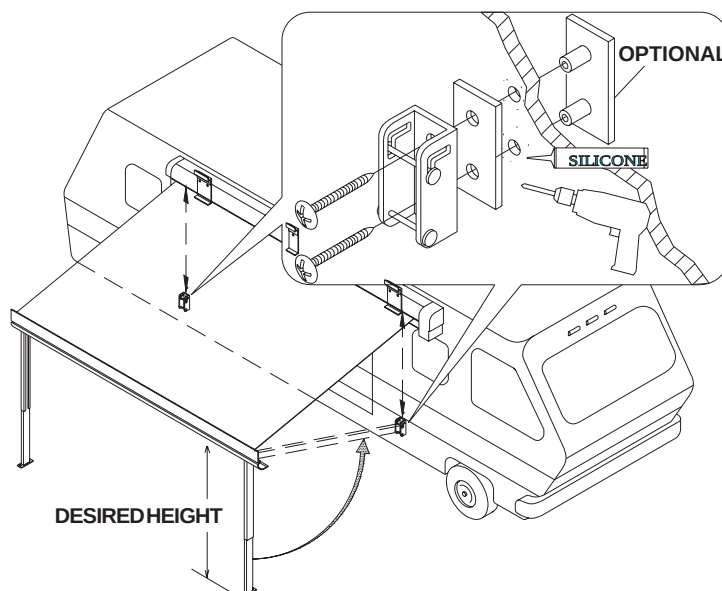


A. To Open

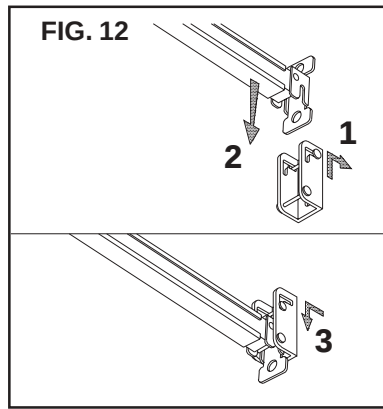
- Place the hook of the crank into the eye of the gear and completely unroll the awning.

The awning will be fully extended when fabric starts to sag. After this occurs, roll awning back 1/4 turn to reach maximum tension.

FIG. 8



- For patio position, engage the support arm foot into the bottom mounting bracket. See FIG. 12.



- Roll up the awning a little - until the fabric is taut.

B. To Close

- Loosen the black knob and slide the support arms completely together.
- Place the hook of the crank into the eye of the gear and roll awning up, to within 3-feet of being closed.
- Rotate the support arms upward and place them under the closing plate of the lead rail. Tighten the knobs.
- Finish rolling up awning. Case is self-locking.

CAUTION

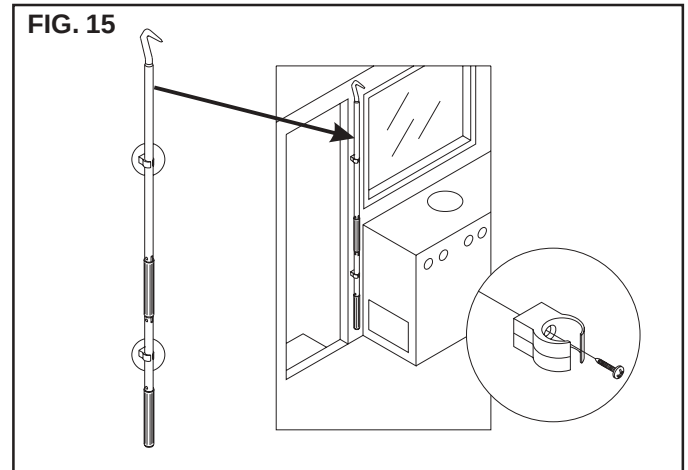
Fabric must roll around roller tube from bottom of roller tube. Make sure the awning is correctly closed by observing the red indicators at either end of the awning.

C. Other Operation Notes

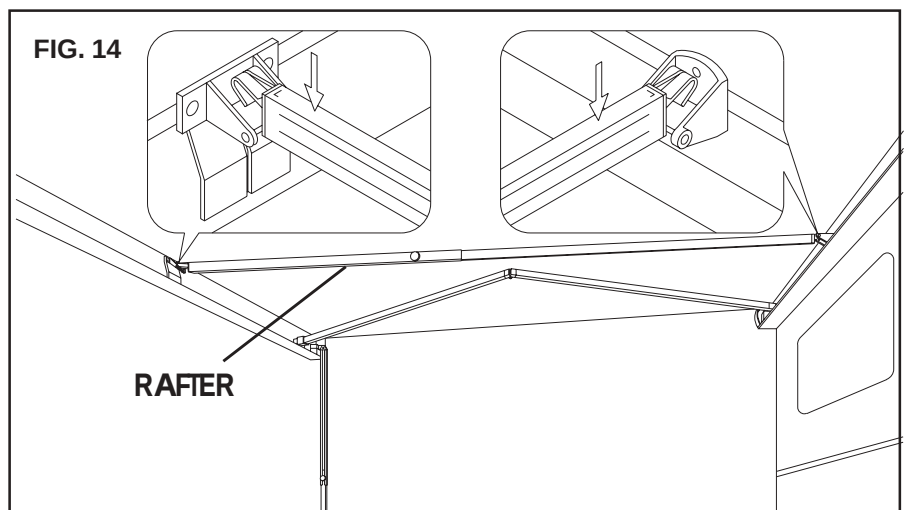
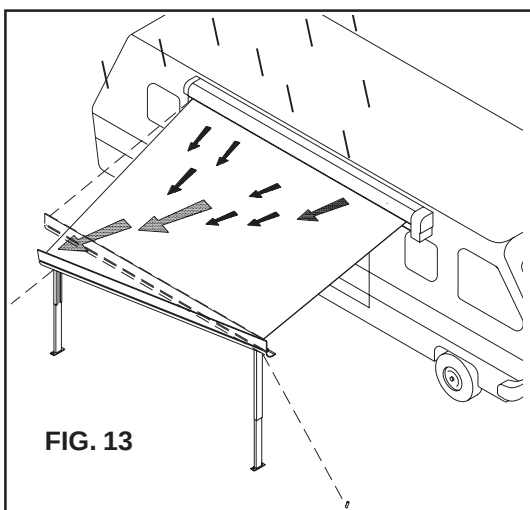
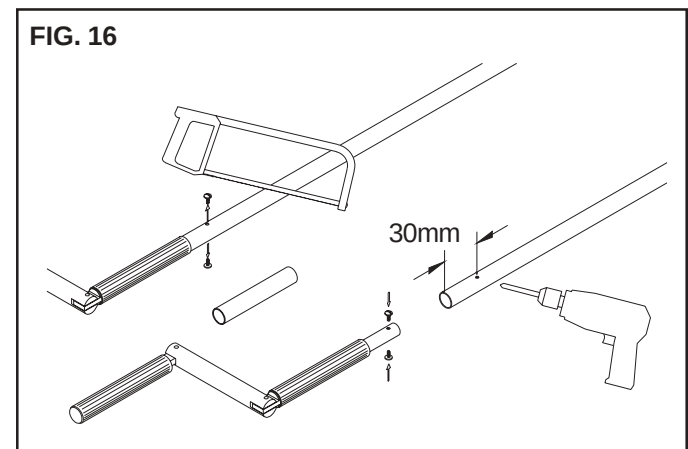
Important: We remind you that the awning is to shelter you from the sun, not from rain, wind or snow.

- To resist unexpected gusts of wind, it is always best to set awning support arms into the pivot position. If car port 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 lead rail be tied with straps (not provided) and staked to the ground.

- If heavy wind conditions exist, retract awning and place in storage position!
- Light-Rain Release Setting: Lower one side of the awning so that the water can drain off. See FIG. 13.
- 12 ft. – 16 ft. awnings come with a center tension rafter. Install as shown in FIG. 14.
- The storage bracket is supplied for crank assembly. See FIG. 15.



- Crank assembly can be shortened as shown in FIG. 16.



OWNER MAINTENANCE ITEMS

1. Lubricate the rafter arms and support arms using paraffin wax or silicone spray. Also lube the threads on the knobs.
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 (Part No. 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.