



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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**For Service Center
Assistance Call:**
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POWER PATIO AWNING SPORT

HARDWARE

9001011.XXX(#) BASEMENT

9001012.XXX(#) STANDARD

FRTA

(FABRIC ROLLER TUBE ASSEMBLY)

900(CC)(LL).XXX(#)

INSTALLATION INSTRUCTIONS

HARDWARE

9001011.XXX(#)

9001012.XXX(#)

FRTA

900(CC)(LL).XXX(#)

REVISION

Form No. 3314722.012 08/12
(Replaces 3314722.000)
(French 3314723.010)
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LaGrange, IN 46761

3314722.012



Read these instructions carefully. These
instructions **MUST** stay with this product.

INTRODUCTION

This awning (hereinafter referred to as “awning,” or “product”) is designed and intended for use on RVs with straight sides. For curved sides, please see the separate Hardware List in the Dealer Service Manual for the appropriate model. This product can be installed by one person with brief help from additional personnel. Use these instructions to ensure correct installation and function of product.

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

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DOCUMENT SYMBOLS



Indicates additional information that is **NOT** related to physical injury.



Indicates step-by-step instructions.

IMPORTANT SAFETY INSTRUCTIONS

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

A. Recognize Safety Information



This is the safety alert symbol. It is used to alert you to potential physical injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

B. Understand Signal Words

A signal word will identify safety messages and property damage messages, and will indicate the degree or level of hazard seriousness.

⚠ WARNING indicates a hazardous situation that, if **NOT** avoided, could result in death or serious injury.

⚠ CAUTION indicates a hazardous situation that, if **NOT** avoided, could result in minor or moderate injury.

NOTICE is used to address practices **NOT** related to physical injury.

C. Supplemental Directives



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

Read and understand these instructions before [installing / using / servicing / performing maintenance] on this product.

Incorrect [installation / operation / servicing / maintaining] of this product can lead to serious injury. Follow all instructions.



The installation **MUST** comply with all applicable local or national codes, including the latest edition of the following standards:

U.S.A.

- ANSI/NFPA70, National Electrical Code (NEC)
- ANSI/NFPA 1192, Recreational Vehicles Code

CANADA

- CSA C22.1, Parts I & II, Canadian Electrical Code
- CSA Z240 RV Series, Recreational Vehicles

D. General Safety Messages

⚠ WARNING Failure to obey the following warnings could result in death or serious injury:

- This product **MUST** be [installed / serviced] by a qualified service technician.
- Do **NOT** modify this product in any way. Modification can be extremely hazardous.
- **IMPACT OR CRUSH HAZARD.** This product should be installed in a controlled environment (inside). Do **NOT** install product during windy conditions, or when wind is expected. The product could move unpredictably, become unstable, and bend or collapse.

GENERAL INFORMATION

A. Included Hardware

- (2) 1/4-20 X 3/4" Hex Head Screw
- (2) 1/4" Split Lock Washer
- (8) #14-10 X 1 1/2" Hex Head Screw
- (2) #6-20 X 7/16" (TEK) Self Drilling Hex Head Washer Screw
- (4) 3/16" X 1" Oscar Rivet

B. Optional Components & Kits

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

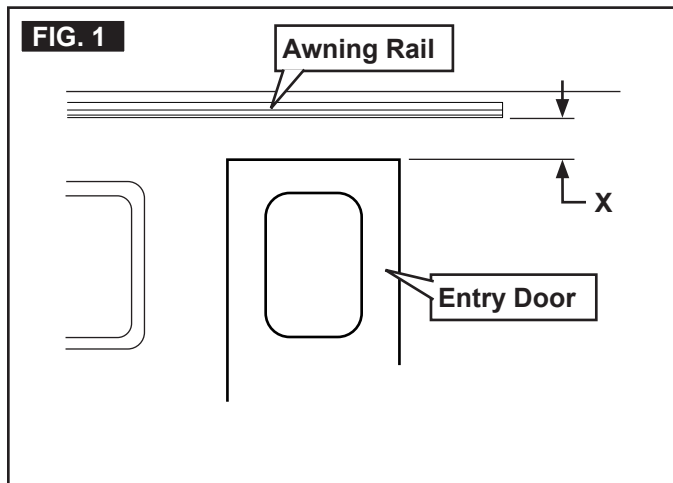
SPECIFICATIONS

A. Door Clearance

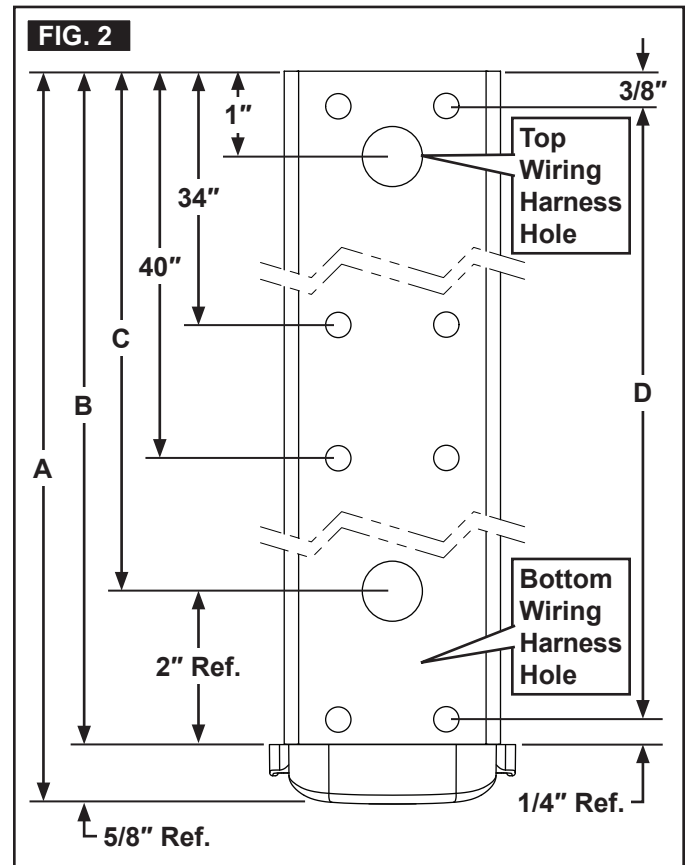
Minimum distances between awning rail and entry door:

	9001011.(XXX)(#)	9001012.(XXX)(#)
X	12"	7"

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



B. Hardware Dimensions



	9001011.(XXX)(#)	9001012.(XXX)(#)
A	63 3/4"	67 1/4"
B	63 1/8"	66 5/8"
C	61 1/8"	64 5/8"
D	62 1/2"	66"

PROCEDURE

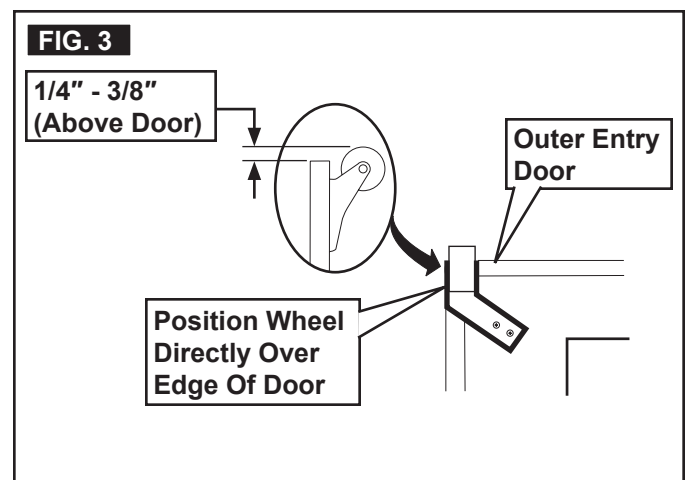
A. Door Roller And Edge Guard (Optional)

NOTICE Do **NOT** allow corner of entry door to contact awning fabric. Otherwise, premature wear or tearing of awning fabric could occur.

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

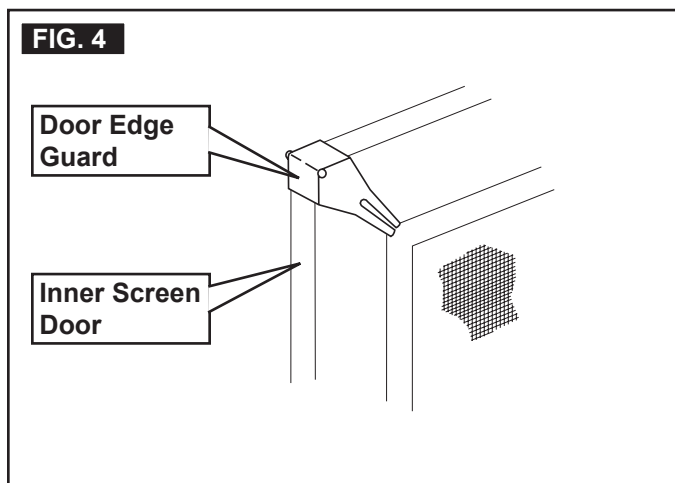
i See subsection, "B. Optional Components & Kits" on page (3) to order door roller kits.

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).



PROCEDURE

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



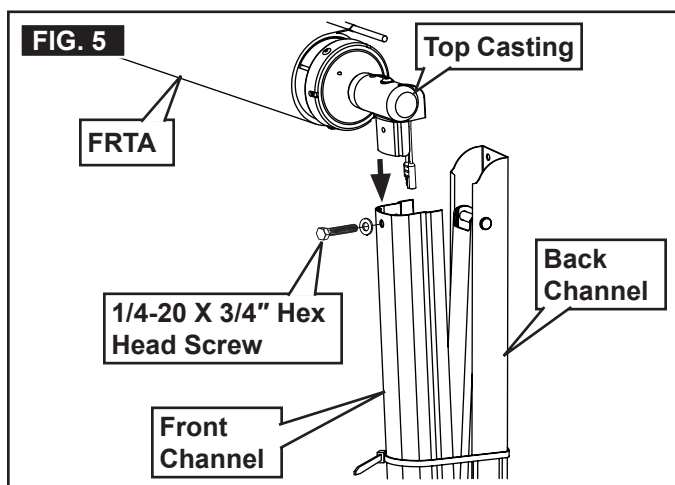
B. Prepare Hardware Assembly

The awning hardware requires some preparation before installing on RV.

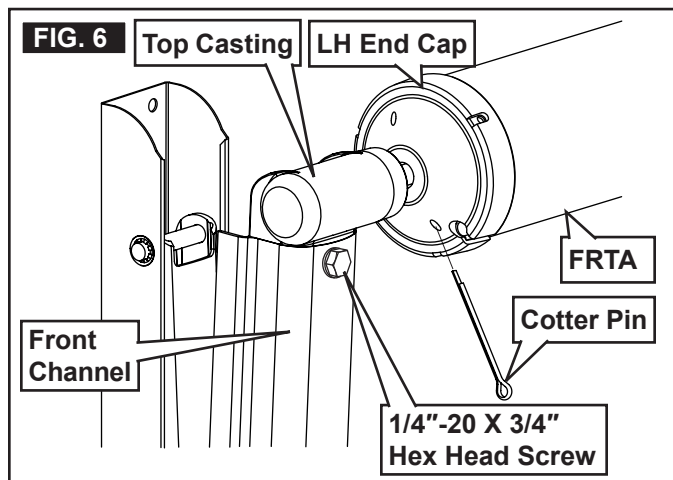
1. Carefully lay fabric roller tube assembly (FRTA) on a clean, well padded "V" trough (or other well protected surface) to prevent fabric damage.
2. **⚠ WARNING** IMPACT OR PINCH HAZARD. Do **NOT** remove ties (wrapped around each arm assembly) until top casting is secured to front channel, awning fabric is attached to awning rail, and arm assembly is mounted to RV. Arm assemblies are under tension from gas strut. Removing these ties could allow arms to extend quickly and unexpectedly. Failure to obey this warning could result in death or serious injury.

Insert each top casting into corresponding front channel. See (FIG. 5).

i The RH arm assembly (front channel) is pre-wired for awning motor.



3. Secure RH front channel to RH top casting using 1/4-20 X 3/4" hex head screw and 1/4" split lock washer. See (FIG. 5).
4. Secure LH front channel to LH top casting using 1/4-20 X 3/4" hex head screw and 1/4" split lock washer. See (FIG. 6).



5. **⚠ WARNING** IMPACT OR PINCH HAZARD. Do **NOT** remove cotter pin from torsion rod (at end cap) until top casting is secured to front channel. 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 or serious injury.

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

i Removing cotter pin will release factory preset tension. To facilitate removal, rotate the fabric roller tube (as if unrolling awning) by pulling bottom of tube toward you while pulling on cotter pin.

PROCEDURE

C. Electrical Installation Kits

⚠ WARNING ELECTRICAL SHOCK HAZARD. Disconnect 120 Vac power from RV. Failure to obey this warning could result in death or serious injury.

NOTICE Disconnect the positive (+) 12 Vdc terminal from supply battery. Otherwise, damage to unit could occur.

1. Install (fixed/wired) remote awning switch.

- a. **NOTICE** Do **NOT** expose switch to weather, extreme temperatures, or long hours in direct sunlight.

Find a suitable location for awning switch installation.

- b. **NOTICE** Install a (3 A) fuse (installer supplied) at fuse panel for positive (+) 12 Vdc power supply (**RED** wire) to switch. Otherwise, damage to unit could occur.

- c. Route wiring (inside RV) to general location where connections to awning hardware will be made.

i Allow enough wiring length to pass through outside RV wall (hole will be drilled later) for connection to awning.

Wiring hole location may be at top or bottom of RH back channel, depending on awning model. See (FIG. 2).

See instructions included with your Dometic, LLC switch kit for additional wiring instructions.

- d. Make wiring connections (inside RV) in compliance with all applicable codes.

i Wiring connections to awning (through outside RV wall) will be made later.

2. **⚠ WARNING** IMPACT OR CRUSH HAZARD. Do **NOT** install product without also installing an ignition/safety interlock system. Otherwise, accidental operation during transit could occur. Failure to obey this warning could result in death or serious injury.

Install ignition/safety interlock system.

- a. **NOTICE** Install a (3 A) fuse (installer supplied) at fuse panel for positive (+) 12 Vdc ignition control to ignition interlock. Otherwise, damage to unit could occur.

- b. Make wiring connections in compliance with all applicable codes.

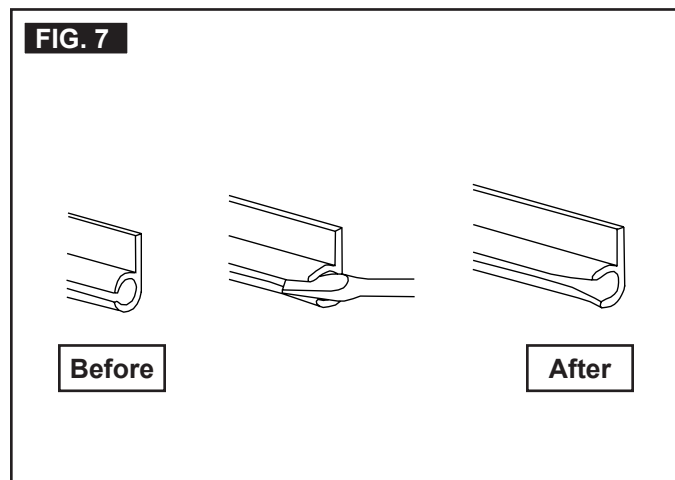
i The ignition interlock **MUST** break the circuit (cut power) to awning when ignition is **ON**.

See instructions included with your Dometic, LLC ignition interlock kit for additional wiring instructions.

D. Prepare Awning Rail And Insert Fabric

1. **NOTICE** Verify awning rail is parallel to RV floor, and is **NOT** warped or curved before installing awning fabric. If awning rail is **NOT** straight, awning fabric may wrinkle or stretch.

Select desired awning rail end (on RV) into which awning fabric will be inserted. Widen that end of rail with a flat screwdriver, and file off any sharp edges. See (FIG. 7).



2. **NOTICE** Do **NOT** unfurl more than 1 revolution of fabric, as this could cause issues with awning [closing / opening] correctly.

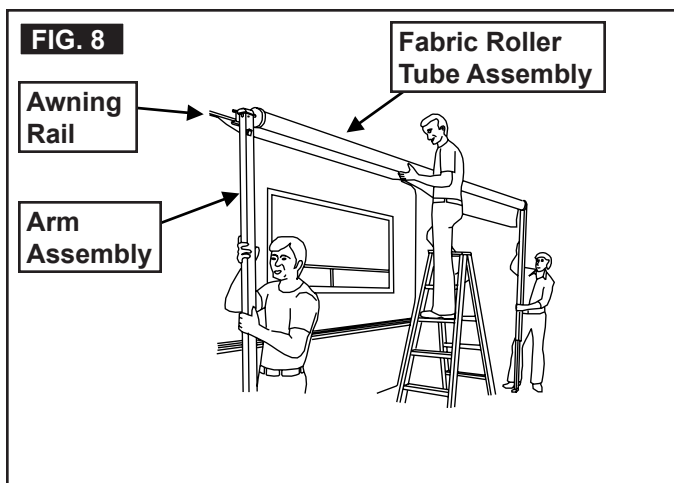
Unfurl awning fabric 1 revolution before inserting fabric (with awning roller cover, if equipped) into awning rail.

i Unfurling 1 revolution will allow enough space between side wall and awning hardware to guide awning fabric into awning rail.

3. **NOTICE** Keep both arm assemblies parallel to each other to avoid twisting.

With one person grasping each arm assembly, carefully lift the entire awning assembly upright. Carry awning to the prepared awning rail end. See (FIG. 8).

PROCEDURE

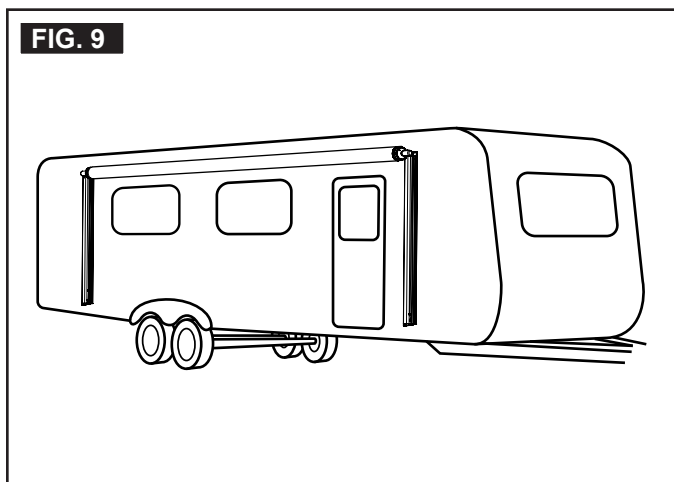


4. While one person guides awning fabric (with awning roller cover, if equipped) into awning rail (a stepladder may be necessary), carefully move (carry) awning hardware assembly to desired position. See (FIG. 8).

(i) At least two other people are required to hold and control hardware until back channels are correctly installed.

5. After awning fabric has been threaded into awning rail, check to make sure its position allows for solid mounting of back channels, and that arm assemblies are in desired location (not restricting use of doors, windows, etc.). See (FIG. 9).

(i) To install over windows, see subsection, "B. Optional Components & Kits" on page (3) to order back channel spacer kits.



E. Hang And Stabilize Back Channels

⚠ WARNING Failure to obey the following warnings could result in death or serious injury:

- **IMPACT OR CRUSH HAZARD.** This product should be installed in a controlled environment (inside). Do **NOT** install product during windy conditions, or when wind is expected. The product could move unpredictably, become unstable, and bend or collapse.
- **FIRE OR ELECTRICAL SHOCK HAZARD.** Verify there are no obstacles inside RV's roof and/or walls (wires, pipes, etc.). Shut **OFF** gas supply, disconnect 120 Vac power from RV, and disconnect positive (+) 12 Vdc terminal from supply battery **BEFORE** drilling or cutting into RV. Failure to obey these warnings could result in death or serious injury.

NOTICE Failure to obey the following notices could damage product or property:

- **ALWAYS** use sealant on (clean) parts and surfaces where fasteners enter RV's roof and/or walls. Otherwise, water leakage could occur.
- Install back channels on a flat surface, level, and keep parallel with each other to ensure correct function and appearance.

1. Verify location of awning:

- a. **⚠ WARNING** **IMPACT OR CRUSH HAZARD.** Verify mounting surface on RV is flat, has solid structural backing where fasteners penetrate surface, and will safely and securely support product. Otherwise, product may become unstable and could bend or collapse. Failure to obey this warning could result in death or serious injury.

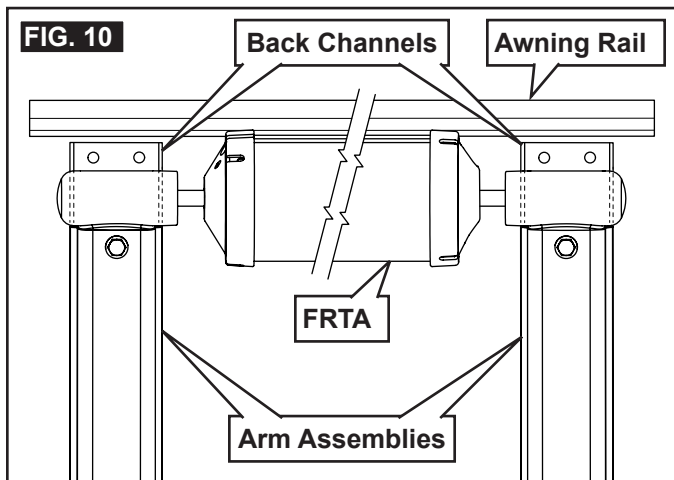
Find a solid structure in RV wall for support of back channels (all mounting points).

- b. **NOTICE** Allow for sufficient clearance between awning fabric and entry door to accommodate awning pitch (slope).

Avoid location that interferes with entry door swing when awning is completely extended. See subsection, "A. Door Clearance" on page (4).

PROCEDURE

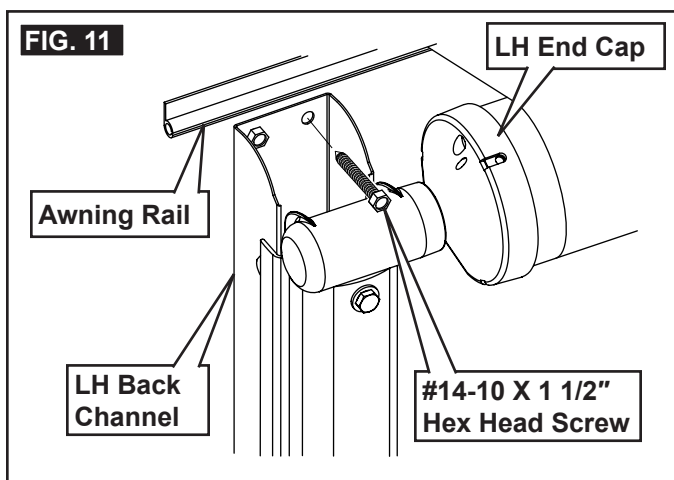
2. Place LH back channel directly under and perpendicular to awning rail, and mark top mounting hole locations. See (FIG. 2) & (FIG. 10).



3. Move arm assembly out of the way.
4. Drill 3/16" diameter holes (7/32" diameter if drilling steel) through marked mounting hole locations and into solid structure of RV.
5. With arm assembly completely closed, replace back channel against wall and align its mounting holes to the pre-drilled holes in RV.
6. **NOTICE** Control arm assemblies while installing back channels. When weight of FRTA is **NOT** supported, downward force could cause arm assemblies to swing sideways and damage RV.

Apply sealant to #14-10 X 1 1/2" hex head screw threads. Then place and tighten (2) screws through top (2) mounting holes of back channel and into solid structure of RV. See (FIG. 11).

i Make sure arm assemblies are completely closed before tightening screws. Closed arm assemblies will help in the overall alignment of awning.



7. Place RH back channel directly under and perpendicular to awning rail, and mark top wiring hole (if applicable) and top mounting hole locations. See (FIG. 2) & (FIG. 10).

i The motorized arm assembly is **ALWAYS** installed at the RH side of awning. Wiring hole may be at top, or bottom depending on model.

8. Move arm assembly out of the way.
9. Drill (1) 5/8" diameter hole at marked wiring hole location and through outside wall of RV. See (FIG. 2).

i If wiring hole is at bottom of back channel, skip this step.

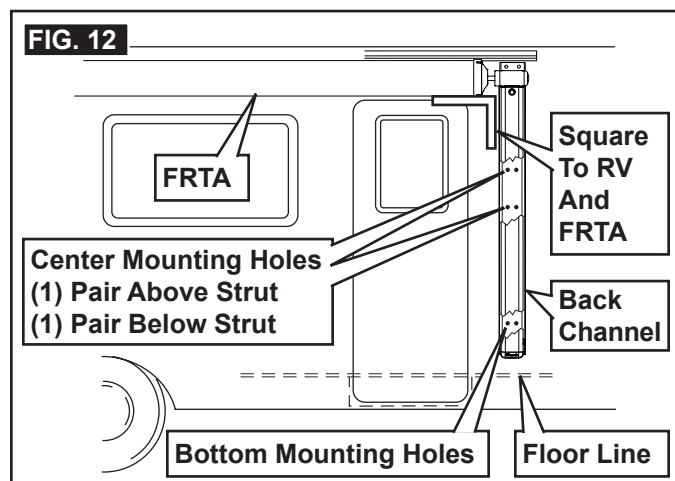
10. Repeat steps (4) through (6) for RH side.
11. **WARNING** IMPACT OR PINCH HAZARD. Arm assemblies are under tension from gas strut. Hold arm assemblies and FRTA securely **BEFORE** removing ties. Otherwise, arms will extend quickly and unexpectedly. Failure to obey this warning could result in death or serious injury.

While holding arm assemblies (front channel) and FRTA securely, carefully remove nylon ties (and tape if applicable) around front and back channels. Then allow front channel to open slowly until awning fabric is taut.

i Slack from unfurled fabric will allow awning to open approximately 12" - 18".

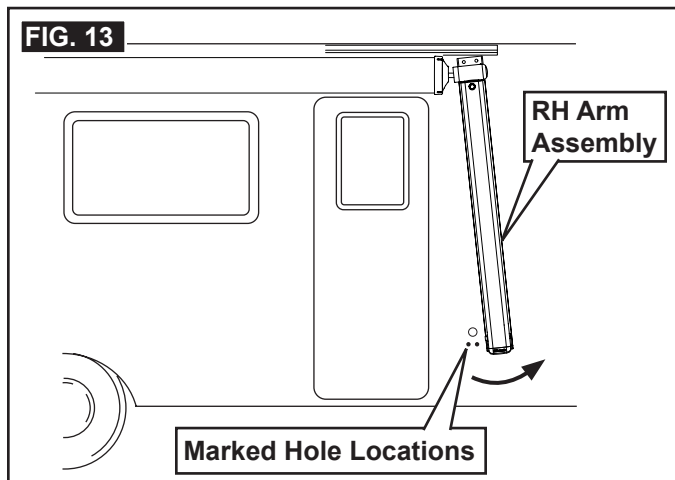
12. Remove wiring cover from RH back channel (if applicable). Save for reinstallation later.
13. Square RH back channel to RV and FRTA, and mark bottom wiring hole (if applicable) and bottom mounting hole locations. See (FIG. 2) & (FIG. 12).

i Measuring from a door or window frame is acceptable.



PROCEDURE

14. Carefully swing RH arm assembly aside (out of the way), to expose marked hole locations. See (FIG. 13).

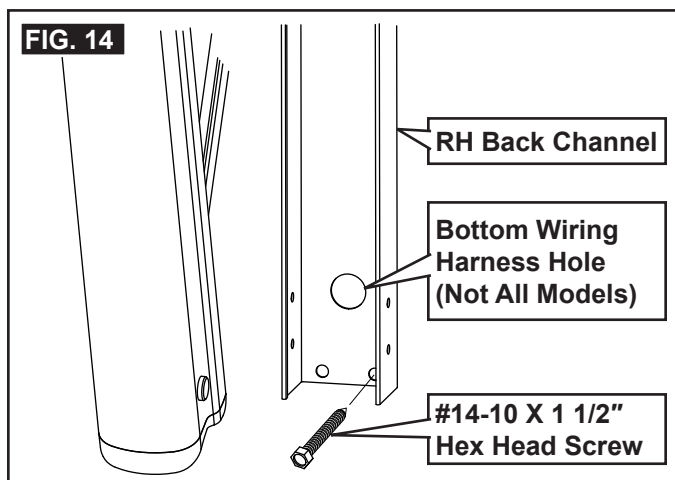


15. Drill (1) 5/8" diameter hole at marked wiring hole location and through outside wall of RV. See (FIG. 2).

i If wiring hole is at top of back channel, skip this step.

16. Drill 3/16" diameter holes (7/32" diameter if drilling steel) through marked mounting hole locations and into solid structure of RV.
17. Swing back channel back in place, and align its mounting holes to the pre-drilled holes in RV.
18. Apply sealant to #14-10 X 1 1/2" hex head screw threads. Then place and tighten (2) screws through bottom (2) mounting holes of back channel and into solid structure of RV. See (FIG. 14).

i To facilitate access to screw head, a long extension bit or a right angle driver may be used.



19. Square LH back channel to RV and FRTA, and mark bottom mounting hole locations. See (FIG. 2) & (FIG. 12).

i Measuring from a door or window frame is acceptable.

20. Carefully swing LH arm assembly aside (out of the way), to expose marked hole locations. See (FIG. 13).
21. Repeat steps (16) through (18) for LH side.

F. Electrical Connections

1. **NOTICE** Do **NOT** pinch wiring or allow wiring to rub against sharp edges. If wiring is damaged, it **MUST** be replaced by a qualified service technician.

Use a grommet (installer supplied) when routing wires through RV wall.

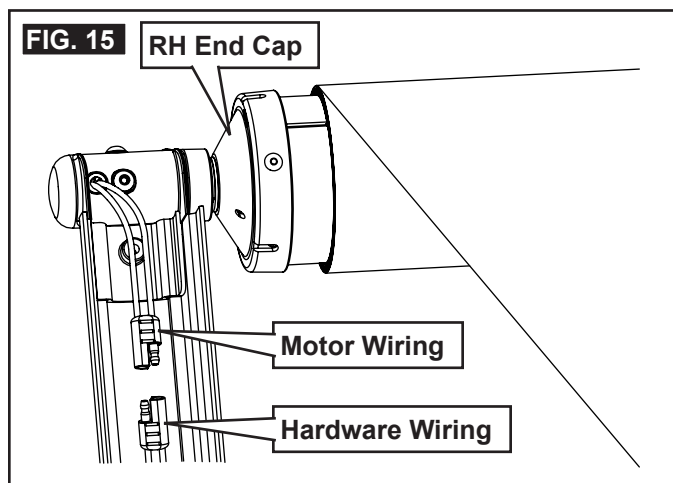
2. **NOTICE** **ALWAYS** seal wiring against weather and moisture where wiring enters RV's roof and/or walls. Otherwise, water leakage could occur.

Pull wiring through wiring hole (and grommet), and make connections in compliance with all applicable codes.

i See instructions included with your Dometic, LLC switch kit for additional wiring instructions.

3. **NOTICE** Verify the positive (+) 12 Vdc terminal is disconnected from supply battery. Otherwise, damage to unit could occur.

Connect motor wiring to the factory pre-wired hardware wiring. See (FIG. 15).



4. Secure any slack motor / hardware wiring inside front channel to prevent pinched or damaged wiring during awning operation.

PROCEDURE

G. Complete Back Channel Installation

1. With power applied to awning, close awning (fully retract) to verify hardware is nesting correctly.
2. Open awning (fully extend).
3. Verify back channel is still square to RV and FRTA. See (FIG. 12).
4. **⚠ WARNING** FIRE OR ELECTRICAL SHOCK HAZARD. Verify there are no obstacles inside RV's roof and/or walls (wires, pipes, etc.). Shut **OFF** gas supply, disconnect 120 Vac power from RV, and disconnect positive (+) 12 Vdc terminal from supply battery **BEFORE** drilling or cutting into RV. Failure to obey these warnings could result in death or serious injury.

Using (1) pair of center mounting holes as a guide (above or below strut on each back channel), drill 3/16" diameter holes (7/32" diameter if drilling steel) into solid structure of RV. See (FIG. 2) & (FIG. 12).

i Removal of a wire cover may be necessary to access back channel holes.

5. **NOTICE** Do **NOT** pinch wiring or allow wiring to rub against sharp edges. If wiring is damaged, it **MUST** be replaced by a qualified service technician.

Verify wiring (if applicable) is not caught between hardware and RV wall before tightening fasteners.

6. **NOTICE** **ALWAYS** use sealant on (clean) parts and surfaces where fasteners enter RV's roof and/or walls. Otherwise, water leakage could occur.

Apply sealant to 3/16" X 1" oscar rivets (provided). Then place rivets through back channel (center mounting holes) and secure to solid structure of RV. See (FIG. 2) & (FIG. 12).

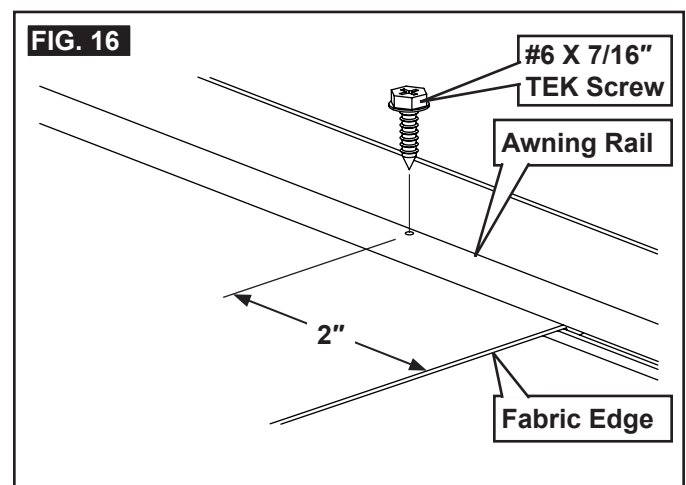
i Structural backing (with skin) **MUST** be 3/8" to 1/2" thick to accommodate oscar rivets.

Alternatively, structural screws (installer supplied) may be used to secure back channel when RV has structural backing that will withstand at least 100 lb force per screw.

7. Repeat steps (3) through (6) for opposite side.
8. Replace wiring cover onto RH back channel (if applicable).
9. Reapply power to awning, and close awning (fully retract).

H. Secure Awning Fabric To Awning Rail

1. Open and close awning four or five times to allow natural self adjustment of awning fabric.
2. Verify alignment of awning fabric, and proper nesting of hardware.
 - a. If there is misalignment, adjust arm assembly by loosening back channel mounting screws and move back channel accordingly. (Retighten screws.)
 - b. Cycle awning again to check alignment.
3. Ensure arm assemblies are still nested correctly, then mark location of awning fabric edges on awning rail.
4. Pull one edge of awning fabric approximately 1/4" beyond marked position, and secure with #6 X 7/16" TEK screw through awning rail (approximately 2" from fabric edge). See (FIG. 16).



5. Pull to stretch opposite edge of awning fabric approximately 3/4", and secure with #6 X 7/16" TEK screw through awning rail (approximately 2" from fabric edge).

I. Secure Awning For Travel

1. With power applied to awning, operate awning according to Operating Instructions to verify all parts are functioning correctly.
2. Fully close awning. See "Close Awning" in Operating Instructions.
3. Verify awning is secure for travel. See "Prepare Awning For Travel" in Operating Instructions.