Dometic

RECORD THIS INFORMATION FOR FUTURE REFERENCE:

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



UNIVERSAL SERIES PATIO AWNING

> HARDWARE 8273000, 8483000, 8430000, 8440000

FRTA FABRIC ROLLER TUBE ASSEMBLY SUNCHASER, 8500, 9000



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

REVISION B

Form No. 3313997.011 10/13 (French 3313998.019_B) ©2013 Dometic Corporation LaGrange, IN 46761

USA

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CANADA

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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 awning can be installed by one person with brief help from additional personnel. Use these instructions to ensure correct installation, function, and operation of product.

Dometic Corporation 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.

the state

R

IMPORTANT SAFETY INSTRUCTIONS

This manual has safety information and instructions to help you 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.

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

A 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 and 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

AWARNING 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. Otherwise, product could move unpredictably, become unstable, and could [detach / bend / collapse].

GENERAL INFORMATION

A. Optional Components

- (1) 830304 Door Roller Kit
- (1) 830304.003 Door Roller Kits (50 Pack)
- (1) 3109623.003 Top Bracket Spacer
- (1) 3109623.550 Top Bracket Spacers (50 Pack)
- (1) 3104781.004 Bottom Spacer Kit (1 Pair)
- (1) 3104781.103 Bottom Spacer Kits (10 Pair)

SPECIFICATIONS

A. Hardware Dimensions

MODEL SERIES	8430000 8440000 .401#	.001 8273000 8483000 .401# .501#	.002 8273000 8483000 .402# .502#	8273000 8483000 .405#	8273000 8483000 .407#	*8273000 *8483000 .408#			
Height	54" - 61"	76" - 86"	64" - 76"	78" - 91"	94" - 107"	Short	64" - 76"		
Range			an an Eliza Alex Coloris Augustan (C. 200)			Tall	76" - 86"		
Main Arm 4 Length	49"	73″	61"	76″	92"	Short	61″		
						Tall	73"		
Adjustable Arm Length	45″	57"	57"	72″	72″	Short	57"		
	40					Tall	57"		
Main Rafter	43 1/2"	66″	54″	71″	71″	Short	54"		
Length	43 1/2	00				Tall	66"		
Secondary Rafter 42 1/2" Length	00.4/0/	44 1/2"	53 1/2"	53 1/2"	Short	44 1/2"			
	42 1/2" 32 1/2"				Tall	32 1/2"			
.00(X)									
.40(X)#	ŧ	Standard							
Duty10(X)	- Hereiter	Heavy							
.50(X)#	ŧ								



Standard Duty hardware may be used if awning FRTA is 21' wide (or less).

Heavy Duty hardware **MUST** be used if awning FRTA is greater than 21' wide.

*Models 8273000.(X)08# and 8483000.(X)08# hardware has (1) Short and (1) Tall Arm/Rafter assembly. This hardware is intended for use on fifth wheel RVs.

PREPARE FOR INSTALLATION

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 IN-CLUDED) must be installed.

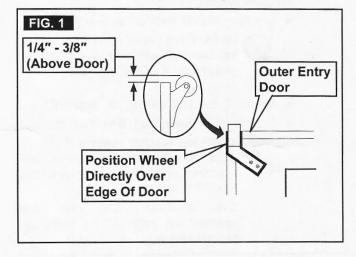


Rounded corner doors may NOT require a door roller kit if there is no potential for damage to awning fabric.

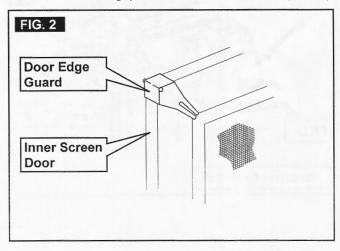
See subsection, "A. Optional Components" on page (3) to order door roller kits.

1. Install door roller. See (FIG. 1). a. Place door roller at upper corner (opposite to hinge) of outer entry door. Face roller out, and 1/4" to 3/8" above door.

> b. Place and tighten self-drilling screws (provided) through mounting holes and into door.



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

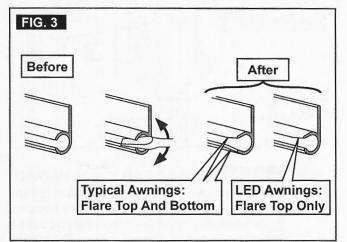


В. **Prepare Awning Rail**

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. Flare (widen) that end of rail with a flat-bladed screwdriver, and remove (file) sharp edges. See (FIG. 3).

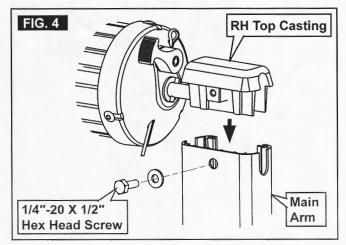
If awning is equipped with LED lights, flare (i top (of awning rail opening) ONLY.



Prepare Awning For Installation C.

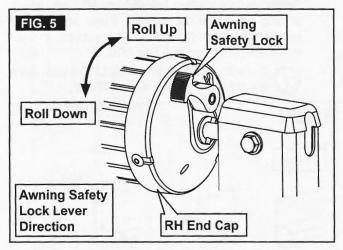
The awning requires minor preparation before installing on RV.

- 1. Carefully lay FRTA on a clean, well padded "V" trough (or other well protected surface) to prevent fabric damage.
 - 2. Insert top casting into corresponding main arm. See (FIG. 4).



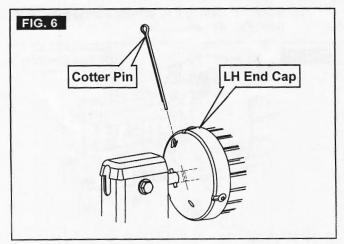
PREPARE FOR INSTALLATION

- Place 1/4"-20 X 1/2" hex head screw (with washer) through main arm and into top casting. Tighten to 65-80 in lb torque. See (FIG. 4).
- 4. Repeat steps (2) and (3) for opposite side.
- 5. Rotate awning safety lock lever to roll down position. See (FIG. 5).



6. AWARNING IMPACT OR PINCH HAZARD. Do NOT remove cotter pin from torsion rod (at end cap) until BOTH top castings are secured to corresponding main arms, and awning safety 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 or serious injury.

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



D. Determine Awning Location

 AWARNING 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 [detach / bend / collapse]. Failure to obey this warning could result in death or serious injury.

Find a solid structure in RV wall for support of top mounting brackets.

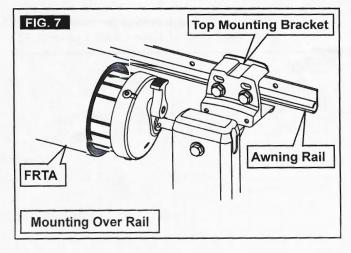
NOTICE Do **NOT** fasten top mounting bracket over awning rail and against rubber cap molding (if RV's roof construction has rounded corners). Otherwise, water leakage could occur.

The relationship between solid structure and awning rail will determine location of top mounting brackets. Possible positions for top mounting brackets include:

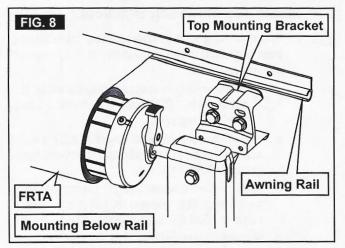
- Mounting OVER awning rail. See (FIG. 7).
 - Do **NOT** use this position if top mounting brackets will contact rubber cap molding on RV (roof with rounded corners).
- Mounting BELOW awning rail. See (FIG. 8).
- Mounting ON awning rail. See (FIG. 9).

Install top bracket spacers if awning rail is too wide (has drip channel) and interferes with top mounting brackets. See (FIG. 10).

See subsection, "A. Optional Components" on page (3) to order top bracket spacers.



PREPARE FOR INSTALLATION



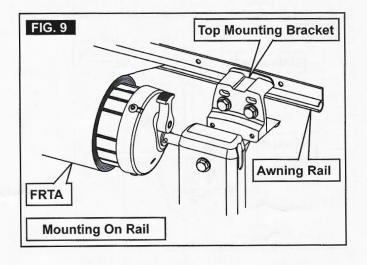
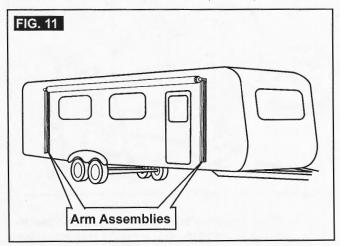


FIG. 10 Top Mounting Bracket Bracket Top Bracket Spacer Top Bracket

2. Make sure arm assemblies do not restrict use of doors, windows, etc. See (FIG. 11).



INSTALL AWNING

A. Install LED Light Switch (If Applicable)

An LED light switch (installer supplied) is required for awning models equipped with an LED light strip.

Skip this subsection if awning is **NOT** equipped with an LED light strip.

- WARNING ELECTRICAL SHOCK HAZARD. Disconnect 120 Vac power from RV. Failure to obey this warning could result in death or serious injury.
 - 2. **NOTICE** Disconnect the positive (+) 12 Vdc terminal from supply battery. Otherwise, damage to unit could occur.
 - NOTICE Do NOT expose switch to weather, extreme temperatures, or long hours in direct sunlight.

Find a suitable location for LED switch installation.

4. **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.

Alternatively, a (3 A) inline fuse may be used between positive (+) 12 Vdc power supply (RED wire) and switch.

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



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

Wiring hole location will be near RH top casting. See (FIG. 4).

6. Make appropriate wiring connections inside RV.

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

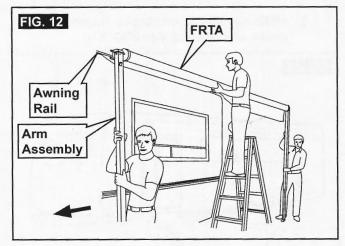
See instructions included with your LED light switch for additional wiring instructions.

B. Insert Awning Fabric Into Awning Rail

- 1. With awning safety lock lever in roll down position, unfurl awning fabric 1 revolution.
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Unfurling 1 revolution will allow enough space between RV wall and awning hardware to guide fabric as it is inserted into awning rail.

2. **A CAUTION** LIFTING HAZARD. Use proper lifting technique and control when lifting product. Failure to obey this caution could result in injury. With one person grasping each arm assembly, carefully lift entire awning assembly upright. Then carry awning to prepared (flared) awning rail end. See (FIG. 12).



- While one person guides awning fabric into awning rail, carefully move (carry) awning assembly to predetermined location. See (FIG. 12).
 - To determine correct awning location, see subsection, "D. Determine Awning Location" on page (6).

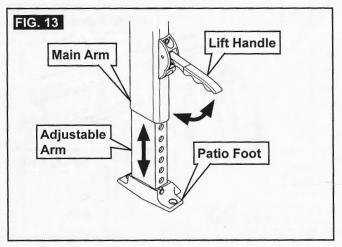
A stepladder may be necessary to reach awning rail.

At least two other people are required to hold and control awning hardware until:

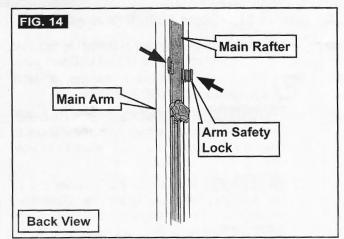
- both top mounting brackets are correctly installed;
- both bottom mounting brackets are correctly installed;
- both patio feet are securely latched into bottom mounting brackets.

C. Install Top Mounting Brackets

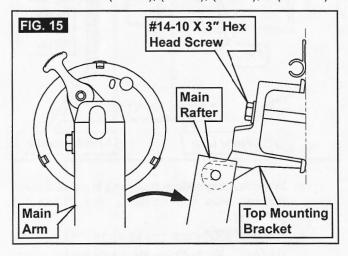
- When awning is in predetermined location, extend both adjustable arms down to help support awning assembly.
 - To determine correct awning location, see subsection, "D. Determine Awning Location" on page (6).
 - Pull lift handle out and CAREFULLY extend adjustable arm until patio foot contacts floor / ground. See (FIG. 13).
 - b. With FRTA at same height (approximately) as awning rail, release lift handle to lock in position. See (FIG. 8) & (FIG. 13).
 - c. Repeat steps (a) through (b) for opposite side.



 Push in one side tab of arm safety lock, then the other to disengage main rafter from main arm. See (FIG. 14).



 Make sure main rafter is aligned directly behind and centered with main arm. Then carefully pull main rafter away from main arm (toward RV), and mark hole locations for top mounting bracket. See (FIG. 7), (FIG. 8), (FIG. 9), & (FIG. 15).



4. AWARNING 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.

Drill 3/16" diameter holes through marked mounting hole locations and into solid structure of RV.

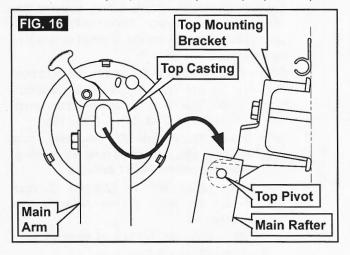
Drill 7/32" diameter holes if drilling into steel.

5. **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 #14-10 X 3" hex head screw threads. Then place and tighten screws through top mounting bracket and into solid structure of RV. See (FIG. 7), (FIG. 8), (FIG. 9), & (FIG. 15).

6. Repeat steps (2) through (5) for opposite side.

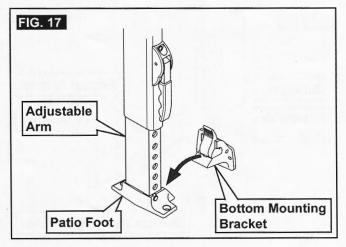
 Lift and place top casting onto top mounting bracket's top pivot. Then push (squeeze) main rafter into main arm until arm safety lock snaps securely in place. See (FIG. 14) & (FIG. 16).



8. Repeat step (7) for opposite side.

D. Install Bottom Mounting Brackets

 Latch bottom mounting bracket, onto patio foot (located on bottom of adjustable arm). See (FIG. 17).



 Make sure top casting is still resting on top mounting bracket's top pivot. See (FIG. 16).

3. AWARNING 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 [detach / bend / collapse]. Failure to obey this warning could result in death or serious injury.

Find a solid structure in RV wall to install bottom mounting bracket. Then adjust arm to place bottom mounting bracket in desired mounting position. See (FIG. 13), (FIG. 17), & (FIG. 18).

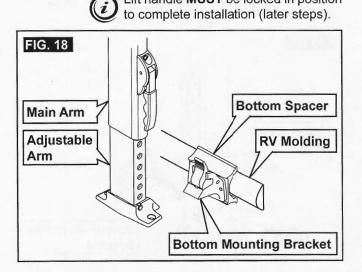
Mount directly into RV floor line, over molding, etc. If installing over RV molding, a bottom spacer **MUST** be used.

See subsection, "A. Optional Components" on page (3) to order bottom spacer kits.

- a. While one person holds and controls main arm, pull lift handle out.
- Slide adjustable arm up or down until bottom mounting bracket is in desired mounting position.

Lift handle MUST be locked in position

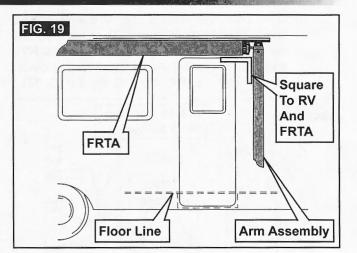
c. Release lift handle to lock in position.



 Square arm assembly to RV and FRTA. See (FIG. 19).

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Measuring from a door or window frame is acceptable.



- While holding bottom mounting bracket against RV wall, mark hole locations. See (FIG. 17) & (FIG. 19).
- 6. AWARNING 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.

Drill 3/16" diameter holes through marked mounting hole locations and into solid structure of RV.

Drill 7/32" diameter holes if drilling into steel.

7. **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 #14 hex head screw threads. Then place and tighten screws through bottom mounting bracket and into solid structure of RV.

8. Repeat steps (1) through (7) for opposite side.

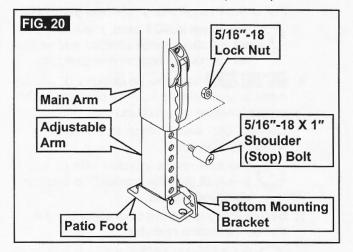
E. Install Stop Bolts

NOTICE Install shoulder bolt (stop bolt) to help prevent over-travel of arm assembly.

Before proceeding with stop bolt installation:

- Bottom mounting bracket MUST be installed.
 - Patio foot MUST be latched into bottom mounting bracket
 - Lift handle MUST be locked in position.
- 1. Pull lift handle out and slide main arm up by one hole only. Then release lift handle to lock in position. See (FIG. 13).

2. Place 5/16"-18 X 1" shoulder (stop) bolt through highest, fully exposed hole in adjustable arm (nearest bottom edge of main arm). Then secure with 5/16"-18 lock nut. See (FIG. 20).



- 3. Pull lift handle out and slide main arm down until it rests on stop bolt. Then release lift handle to lock in position. See (FIG. 13) & (FIG. 20).

Top casting should now clear top pivot by 1/2" when awning closes. See (FIG. 16).

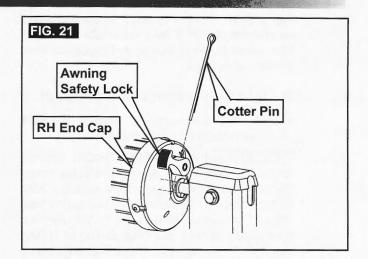
4. Repeat steps (1) through (3) for opposite side.

F. **Release Preset Tension**

A WARNING IMPACT OR PINCH HAZARD. Do NOT remove cotter pin from torsion rod (at end cap) until BOTH top castings are secured to corresponding main arms, and awning safety 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 or serious injury. With awning safety lock lever in roll down position, straighten, remove, and discard cotter pin from right end of torsion rod (RH end cap). See (FIG. 21).

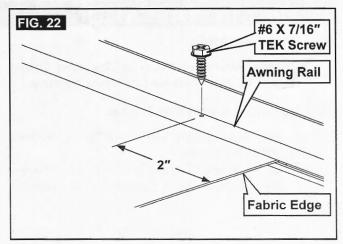


Removing cotter pins will release the factory preset tension. To facilitate removal, you may need to twist the fabric roller tube (as if unrolling awning) by pulling the bottom of tube toward you while pulling on cotter pin.



Secure Awning Fabric To Awning Rail G.

- 1. A CAUTION PINCH HAZARD. Maintain a horizontal distance of at least 16" between fully open awning and any permanent object. Failure to obey this caution could result in injury. Open and close awning four or five times to allow for natural self adjustment of awning fabric. See Operating Instructions.
 - 2. Verify alignment of awning fabric, and awning hardware.
 - a. If there is misalignment, make adjustments accordingly.
 - b. Cycle awning again to check alignment.
 - 3. Ensure arm assemblies are still positioned correctly (directly in front of top brackets), then mark location of awning fabric edges on awning rail.
 - 4. Pull one edge of awning fabric approximately 1/4" beyond marked position. Then secure with #6 X 7/16" TEK screw through awning rail (approximately 2" from fabric edge). See (FIG. 22).



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

H. LED Light Connections (If Equipped)

Skip this subsection if awning is **NOT** equipped with an LED light strip.

1. A 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.

With awning open, drill (1) 5/8" diameter hole through outside wall of RV (near RH top casting and under awning rail).



Make sure location will allow LED wiring to pass through wall without interference.

2. **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 wiring through RV wall.



If grommet is **NOT** used, use heat-shrink tubing where wiring will pass through RV wall. 3. **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).

- If grommet is **NOT** used, make sure sealant will also provide effective and permanent protection against wire damage.
- 4. **NOTICE** Verify the positive (+) 12 Vdc terminal is disconnected from supply battery. Otherwise, damage to unit could occur.

Connect LED switch wiring to the factory prewired LED light strip.

See instructions included with your LED switch kit (installer supplied) for additional wiring instructions.

5. Secure wiring to prevent pinching or other damage during awning operation.

> 2 Allow enough slack in wiring to safely accommodate possible fabric movement.

VERIFY INSTALLATION

A. Test Operation

Operate awning according to Operating Instructions to verify all parts are functioning correctly.

B. Secure Awning For Travel

- 1. Fully close awning. See "Close Awning" in Operating Instructions.
 - 2. Verify awning is secure for travel. See "Prepare Awning For Travel" in Operating Instructions.

C. Keep Literature

Instructions contain valuable information for product use and consumer safety.



Keep **BOTH** the Installation and Operating Instructions with product.

Dometic

LIMITED ONE (1) YEAR WARRANTY

THE SELLER NAMED BELOW MAKES THE FOLLOWING WARRANTY WITH

RESPECT TO THE DOMETIC PRODUCT:

- 1. This Warranty is made only to the first purchaser (hereinafter referred to as the "Original Purchaser") who acquires the product for his own use and is installed and operated within the continental United States and Canada.
- 2. This Warranty will be in effect for one (1) year from the date of purchase by the original purchaser. It is suggested that the original purchaser retain a copy of the dated bill of sale as evidence of the date of purchase.
- 3. This Warranty covers only specified parts which shall be free from defects in material and workmanship under normal use. This warranty does NOT cover conditions unrelated to the material and workmanship of the product. Such unrelated conditions include, but are not limited to: (a) damage not reported within seven (7) days of ownership; (b) failure or damage caused by storms, rain, water pooling, or any acts of God; (c) faulty installation and any damage resulting from such; (d) the need for normal maintenance and any damage resulting from the failure to provide such maintenance; (e) failure to follow Sellers instructions for use of this product; (f) any accident to or misuse of any part of this product and any alteration by anyone other than the Seller or its authorized representative; (g) damage or failure caused by installation of accessories not manufactured and marketed by the Seller; and (h) normal wear and product abuse.
- 4. The specified parts covered by this warranty, where applicable, are as follows: (a) Roller tube against rust, corrosion and extrusion defects; (b) Fabric free from quality defects (normal wear is not covered); (c) Screen assemblies free from quality defects (normal wear is not covered); (d) Torsion assemblies, including motor-driven assemblies, against extrusion defects, electrical faults, or breakage; and (d) Hardware against extrusion defects.
- 5. In order to obtain the benefits of this warranty, you should return the product which you find defective to the Seller named below or to a Dometic Authorized Service Center during the period that this warranty is in effect. The original owner is responsible for all charges incurred in delivery of the product to the Seller, or Dometic Authorized Service Center, and in pick up after the warranty service has been completed. To obtain the location of the nearest Authorized Service Center, please call 1-800-544-4881. In Canada, call 1-519-653-4390.
- 6. Any item returned in the manner described in paragraph 5 will be examined by the Seller or the Authorized Dometic Service Center. If it is found that the returned item was defective in material and workmanship, the Seller or the Authorized Dometic Service Center will repair the product per the terms of this one (1) year limited warranty without charge for material or labor during the first year of ownership by the original purchaser. CONFIRM THE SERVICE AGENCY IS AN AUTHORIZED DOMETIC SERVICE CENTER. DO NOT PAY THE SERVICE AGENCY FOR WAR-RANTY REPAIRS. SUCH PAYMENTS WILL NOT BE REIMBURSED.
- 7. Dometic, LLC will pay freight on replacement parts during the first ninety (90) days of ownership by the original purchaser.
- 8. The Seller does not authorize any person or company to create any warranty obligations or liability on their behalf. This warranty is not extended by the length of time which you are deprived of the use of the product. Repairs and replacement parts provided under the terms of this warranty shall carry only the non-expired portion of this warranty.
- In no event shall either Seller be liable for incidental or consequential damages. This includes any damage to another product or products resulting from such a defect. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations may not apply.
- 10. Any implied warranty, including the implied warranty of merchantability and fitness for any purpose, is limited to the duration of this limited warranty. Some states do not allow limitations on how long an implied warranty can last, so the above limitation may not apply.
- 11. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE. No action to enforce this warranty shall be commenced later than ninety (90) days after the expiration of the warranty period. Claims must be submitted in writing to the Dometic Warranty Department for arbitration.
- 12 All products (except those specifically built for commercial use) are warranted only when installed on vehicles built to current edition R.V.I.A. A119-2 and C.R.V.A. Z-240 Standards.
- 13. The Seller reserves the right to change the design of any product without notice and with no obligation to make corresponding changes in products previously manufactured.

REVISION

Form No. 3104715.069 09/11 (Replaces 3104715.051) (French 3108128.053) ©2011 Dometic, LLC LaGrange, IN 46761 DOMETIC, LLC Warranty Department 2320 Industrial Parkway Elkhart, Indiana 46515 Phone: 574-294-2511 Fax: 574-389-3975