



RECORD THIS INFORMATION FOR FUTURE
REFERENCE:

Model Number _____
Serial Number _____
Date Purchased _____
Retailer / Qualified Installer _____

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SERVICE OFFICE
Dometic, LLC
2320 Industrial Parkway
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**For Service Center
Assistance Call:**
800-544-4881

**TYPE 9500E
(120 VAC, 60 HZ)
ELECTRIC
CASSETTE AWNING**

⚠ 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 ce produit doit être effectuée par un réparateur qualifié. Toute modification de ce produit peut être extrêmement dangereuse et entraîner des blessures ou dommages matériels.

**INSTALLATION
INSTRUCTIONS**

MODEL
202(XX)(XX).001(#)
202(XX)(XX).002(#)

3314422.000

Form No. 3314422.000 09/11
(French 3314423.000)
©2011 Dometic, LLC
LaGrange, IN 46761

**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. It is used to alert you to personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

UNDERSTAND SIGNAL WORDS

A signal word, when used with the safety alert symbol, will identify a safety hazard and its level of risk for personal injury. A signal word, without the safety alert symbol, will be used for property damage messages only.

⚠ WARNING WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION CAUTION, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE NOTICE is used to address practices not related to personal injury.



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

GENERAL INSTRUCTIONS

⚠ WARNING

These instructions must be read and understood before installation of this hardware. This hardware must be installed by a Dometic, LLC Service Center or a qualified service technician. Modification of this product can be extremely hazardous and could result in personal injury or property damage.

All field wiring modifications should be made in compliance with the latest edition of ANSI/NFPA70 NEC and ANSI/A119.2 for recreational vehicles.

Required hardware:

8' - 13' Models only:

- (1)* Mounting Bracket (Long)
- (12) M6 X 50 mm L Carriage Bolt
- (12) M6 Split Lock Washer
- (12) M6 Flat Washer
- (12) M6 Locknut With Nylon Insert
- (6) 8-18 X .38 Self Drilling Flat Head Screw

* Some models may have (3) short Mounting Brackets

Additional hardware quantities:

15' - 16' Models only:

- (4) M6 X 50 mm L Carriage Bolt
- (4) M6 Split Lock Washer
- (4) M6 Flat Washer
- (4) M6 Locknut With Nylon Insert
- (2) 8-18 X .38 Self Drilling Flat Head Screw

Required tools:

- 3 mm Hex Key
- 6 mm Hex Key
- Torque Wrench
- 6 mm Hex Key Socket
- 10 mm Socket
- PH Phillips Head Screwdriver (or bit and drill)

Optional accessories:

- 3313888.000 Kit, Solar Sensor
- 3313943.000 Kit, Remote Wall Control
- 3313981.000 Kit, Remote (additional)
- 3313955.000 Kit, 120 VAC Inverter

A. Application

The cassette awning is ideal for use on RVs. It is especially well suited for RVs with an over cab extension where there is not sufficient surface for a bottom mounting bracket. Cassette awnings can be installed by one person with brief help from additional personnel. Use the following procedure to ensure a properly installed, and properly functioning awning.

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

B. Specifications

**WARNING**

ELECTRICAL SHOCK HAZARD. Installer must provide proper grounding for equipment. Failure to obey this warning could result in death, serious injury, or property damage.

1. Power source may be utility power, or inverter of either the modified sine wave or pure sine wave type.

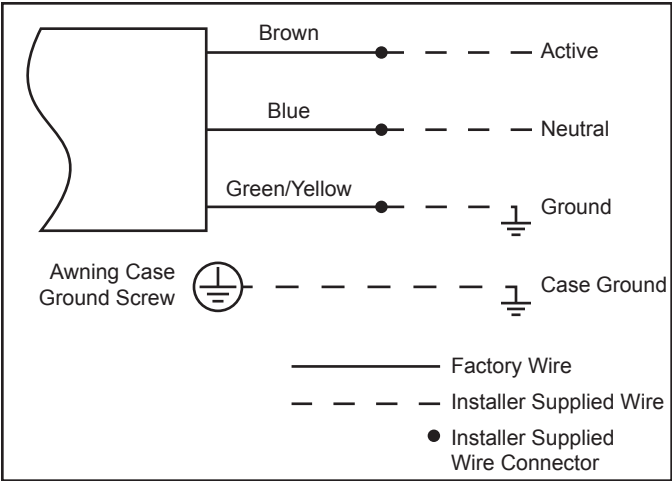
Note: If an inverter is used, it must comply with all applicable electrical codes.

The motor is protected by a thermal switch, which will disable the motor temporarily to prevent overheating. If this occurs, the motor will require a cool-down period (which will vary based on ambient temperature) before it will operate again.

	Voltage	Frequency	Current	Torque	Speed	Protection Index
Power Supply	120 VAC	60 Hz	2.8 A	N/A	N/A	N/A
Motor Rating	120 VAC	60 Hz	1.6 A	18.5 ft-lb	18 RPM	IPX4

	Duty Cycle
Unit Rating	Intermittent 2 1/2 minutes

2. Wiring Diagram:



**WARNING**

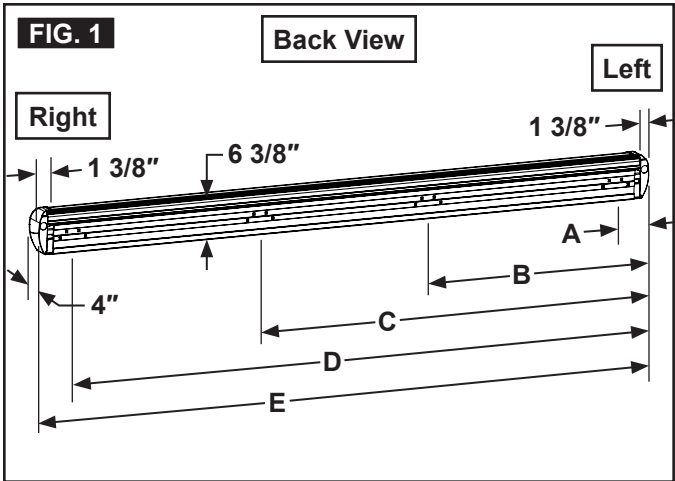
IMPACT OR CRUSH HAZARD. Make sure mounting bolts are located behind each shoulder assembly (lateral arm attachment) to provide proper support. Otherwise, the cassette awning may become unstable and could bend or collapse. Failure to obey this warning could result in death or serious injury.

3. Mounting bracket (bolt pattern) spacing. See FIG. 1.

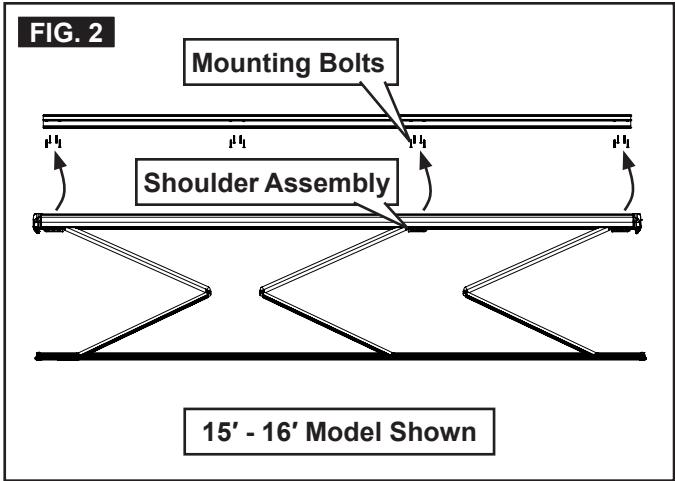
a. 8' - 13' models require (3) sets of bolts.

b. 15' - 16' models require (4) sets of bolts.

Note: Spacing must provide mounting bolts behind each shoulder assembly (lateral arm attachment). See FIG. 2.



Hole Pattern Locations						
	8'	10'	12'	13'	15'	16'
A	6 3/8"					
B	N/A				60 7/8"	
C	50 5/8"	60 7/8"	69 1/4"	79"	116 3/8"	
D	94 3/4"	115 1/4"	132"	151 5/8"	180 1/4"	191"
E	101 1/8"	121 5/8"	138 3/8"	158"	186 5/8"	197 3/8"



PROCEDURE

A. Install Cassette Awning

⚠ WARNING

IMPACT OR CRUSH HAZARD. Make sure RV's structure will safely and securely support awning before installation. Otherwise, the cassette awning may become unstable and could bend or collapse. Failure to obey this warning could result in death or serious injury.

⚠ CAUTION

PINCH HAZARD. A horizontal distance of at least 16" must be maintained between the fully open awning and any permanent object. Failure to obey this caution could result in injury.

NOTICE

Make sure entry door will open without interference when awning is completely extended. Make sure the mounting surface is flat and vertical. Any tilt in the mounting surface will cause tilt in the lead rail. Failure to obey this notice could result in property damage.

1. Determine location of awning.
 - a. Allow for a minimum of 1/2" clearance at top and sides of awning case.

Note: Additional clearance is recommended to allow ease of access for servicing.

- b. Avoid location that interferes with entry door swing when awning is completely extended.

Note: Awning is factory preset for a 10° fabric slope, but it may be adjusted for a 20° slope. Allow for sufficient clearance to accommodate awning pitch (slope).

For a 22" entry door, the approximate clearance should be 4 1/4" for 10° slope, and 7 7/8" for 20° slope.

- c. Find a solid structure in RV wall for support of mounting bracket(s) (if possible). See FIG. 3.

Note: Solid structure must be as wide as mounting bolt pattern (behind each shoulder assembly), and span from floor to roof of RV.

Important: For installations without sufficient structural support, a backing plate and sleeves (available from Dometic, LLC) will be needed inside RV wall. This will help strengthen awning support. See FIG. 4.

Note: The 0.405" O.D. sleeves and M6 carriage bolts provided will fit up to 1 7/16" RV wall thickness. If RV wall is thicker than 1 7/16", longer carriage bolts and sleeves will be required. Cut sleeves and carriage bolts (Grade 8.8 minimum) to fit RV wall as necessary. Repair threads (at cut) on carriage bolts. See FIG. 5.

FIG. 3

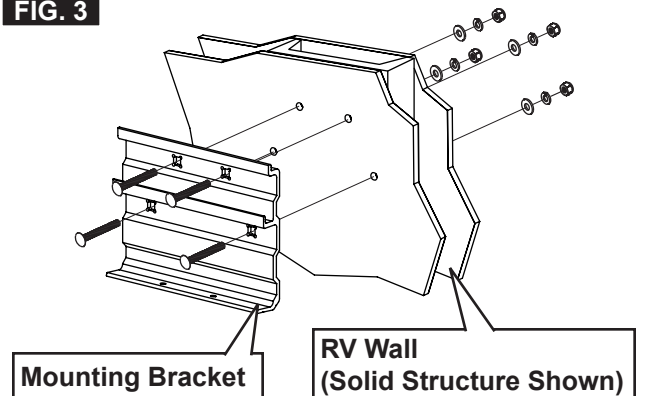


FIG. 4

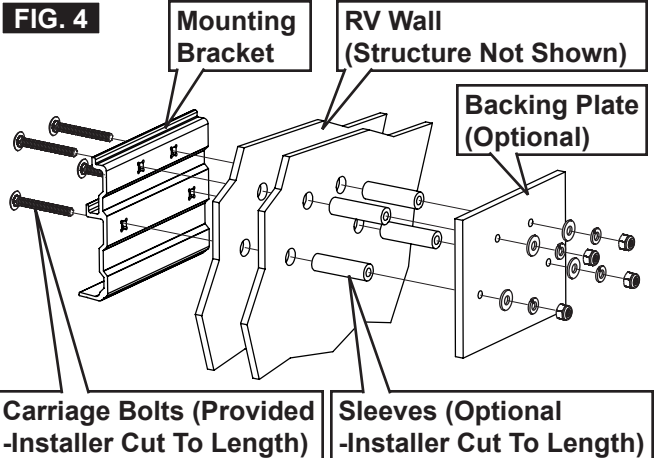
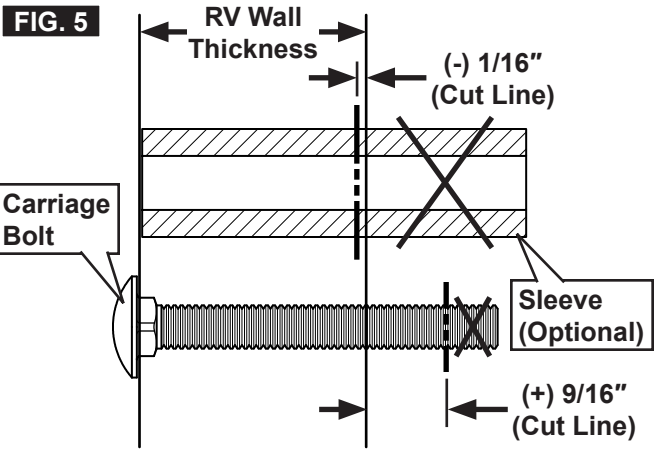


FIG. 5



NOTICE

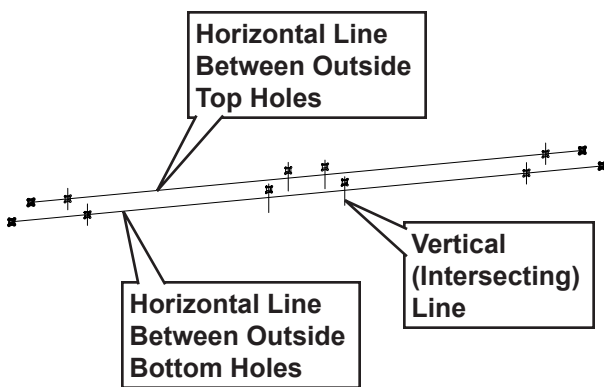
Mounting bracket(s) must be installed on a flat surface, be in-line with each other (if more than (1) bracket is used), and level to ensure proper function and appearance.

- Using a mounting bracket as a template, mark it's position and all hole locations. See FIG. 3.

Note: If (3) short mounting brackets are supplied (instead of (1) long bracket), refer to the "Hole Pattern Locations" table under "Specifications" section.

- Mark lines between the (2) outside top holes, and the (2) outside bottom holes. See FIG. 6.

FIG. 6



- Verify horizontal lines are level, then mark vertical lines from all remaining holes to intersect the marked horizontal lines. See FIG. 6.

Note: Due to the nature of long extruded parts, the mounting bracket may be slightly bowed. Some hole locations may be above or below the marked horizontal lines. Some models may have (3) short mounting brackets (bowing should not be an issue).

NOTICE

Before drilling, make sure there are no obstacles inside RV wall (cables, wires, gas pipes, etc.).

- Pre-drill 1/2" clearance holes for sleeves, or 1/4" clearance holes for M6 carriage bolts on the marked locations. See FIG. 3 and 6.

⚠ WARNING

IMPACT OR CRUSH HAZARD. Do not over-tighten fasteners. Applying too much torque may cause fasteners to fail, and could allow awning to collapse. Failure to obey this warning could result in death or serious injury.

NOTICE

To help prevent water leakage, always use sealant on clean parts and surfaces where fasteners enter RV's side wall or roof.

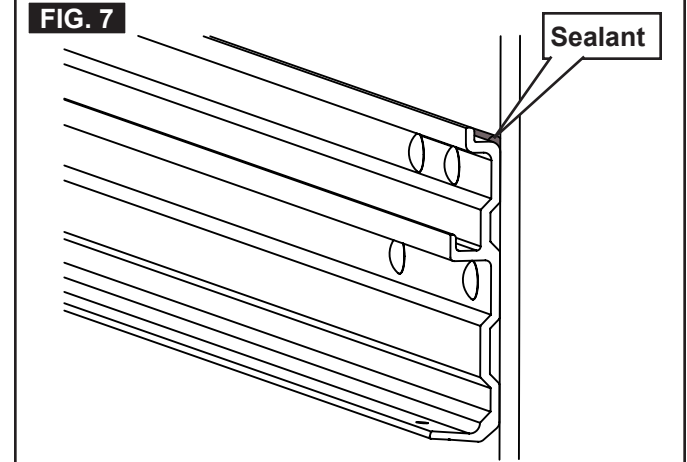
- Install mounting bracket(s) with provided carriage bolts, locknuts, and washers. Tighten to 35 ±5 in-lb torque. See FIG. 3.

Note: If solid structure is not present, use backing plates and sleeves. See FIG. 4.

Alternate fasteners may be used only if size and strength requirements are met for the safe installation and operation of this awning. Bolt head must be no taller than 1/8".

- Apply sealant along entire top edge of mounting bracket(s) where it contacts RV's wall. See FIG. 7.

FIG. 7



⚠ CAUTION

LIFTING HAZARD. Use proper lifting technique and control when lifting awning. Failure to obey this caution could result in muscle strain, back injury, or property damage.

- With a mechanical lift, or the help of additional personnel, lift the cassette awning up near the mounting bracket(s).

Note: Do NOT hook onto mounting bracket(s) until wiring is routed.

⚠ WARNING

ELECTRICAL SHOCK HAZARD. Remove power from RV before making wiring connections. Wire to a 120 VAC, 60 Hz circuit with correct polarity, and in compliance with all applicable electrical codes.

Do not allow wiring to rub against sharp edges. If supply wiring is damaged, it must be replaced by a Dometic, LLC Service Center or a qualified service technician.

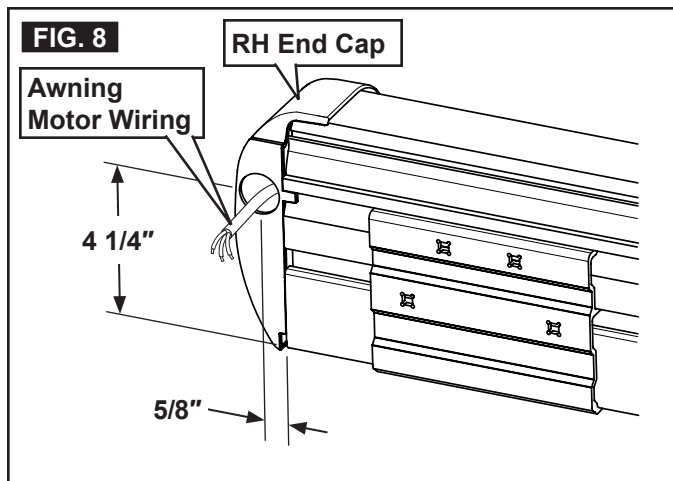
Properly seal all wiring against weather and moisture.

Failure to obey these warnings could result in death, serious injury, or property damage.

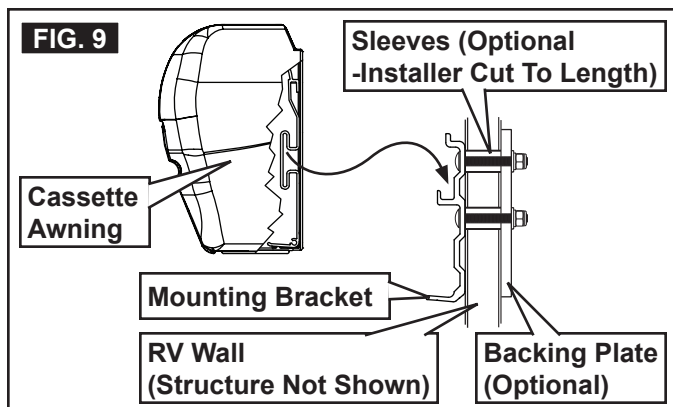
9. If an inverter is installed, verify that installation is in compliance with all applicable electrical codes.

Important: Location of inverter must be dry and free of combustible chemicals.

10. Make wiring connections in compliance with all applicable electrical codes. See FIG. 8.



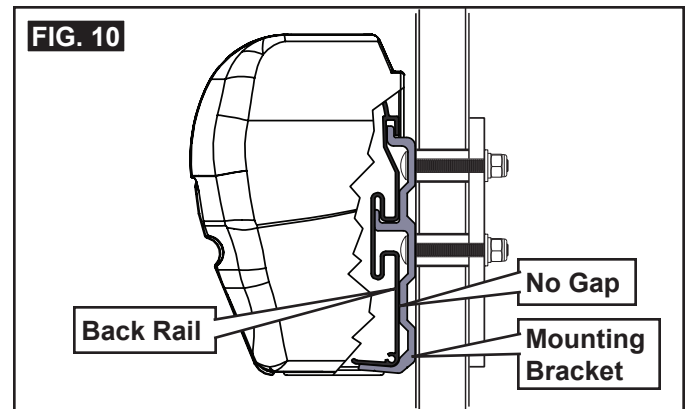
11. With the help of additional personnel, hook awning onto the mounting bracket(s). See FIG. 9.



⚠ WARNING

IMPACT OR CRUSH HAZARD. Make sure awning is securely mounted, and hooked onto mounting bracket(s). Failure to obey this warning could cause awning to dislodge and fall, and could result in death or serious injury.

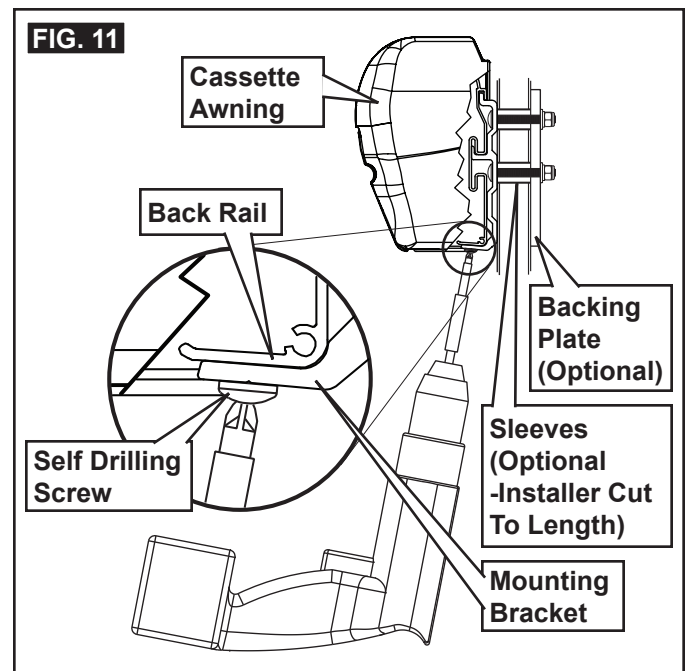
12. Ensure awning is securely hooked onto mounting bracket(s), then carefully extend approximately 1'. Verify awning's back rail is fully contacting mounting bracket's vertical surface. See FIG. 10.



⚠ WARNING

IMPACT OR CRUSH HAZARD. Do not operate or leave awning unattended until it is securely fastened to mounting bracket(s). Failure to obey this warning could cause awning to collapse, and could result in death or serious injury.

13. Place and tighten the self drilling screws through mounting bracket(s) and into cassette awning's back rail. See FIG. 11.

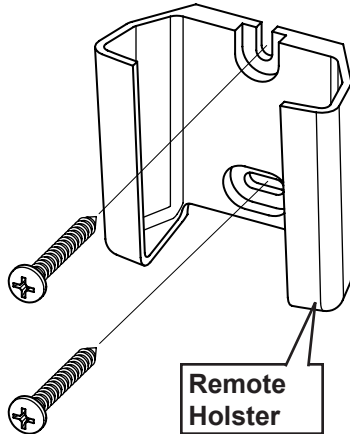


NOTICE

Do not expose remote and remote holster to weather, extreme temperatures, or long hours in direct sunlight. Failure to obey this notice could result in property damage.

14. Locate a suitable location for remote holster that's protected from weather and other adverse conditions, and install with (2) screws. See FIG. 12.

FIG. 12



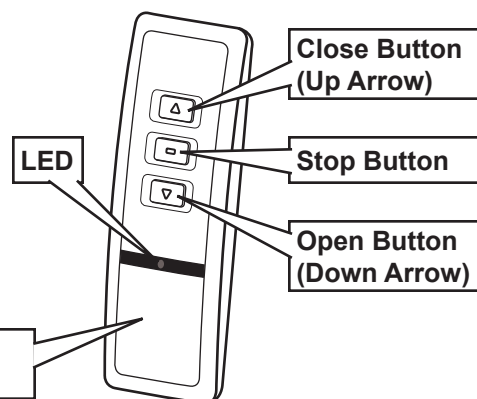
B. Verify Motor And Remote Functionality

1. With power applied to awning, press the open button (down arrow) briefly on awning remote. Awning should extend to its out limit. See FIG. 13.

Note: If awning does not respond to remote, verify LED lights momentarily (on remote) when button is pressed. If LED does not light, install new batteries.

If awning still does not respond, does not extend to its out limit, extends too far (fabric not taut), or stops when button is released the motor and remote may need to be reset. (See "Reset Motor And Remote" in Operating Instructions.)

FIG. 13



2. Press the close button (up arrow) briefly on awning remote. Awning should retract until it's closed. See FIG. 13.

Note: If awning does not close or stops when button is released, the motor and remote may need to be reset. (See "Reset Motor And Remote" in Operating Instructions.)

3. Press the stop button briefly (while awning is extending or retracting) to stop travel. See FIG. 13.

C. Verify Wind Sensor Functionality

1. With awning extended to its out limit, shake the lead rail up and down 3" - 4" for approximately 8 seconds (to simulate wind vibration). Awning should retract until it's closed. See FIG. 14.

Note: If awning does not close, install new batteries in wind sensor (located on inside surface of lead rail). An LED will light momentarily (on circuit board) when new batteries are installed.

Verify potentiometer sensitivity is set to "3" (factory preset), and that sensor is installed properly on sensor base. See FIG. 15.

If awning still does not close, sensor may need to be reset. (See "Reset Wind Sensor" in Operating Instructions.)

FIG. 14

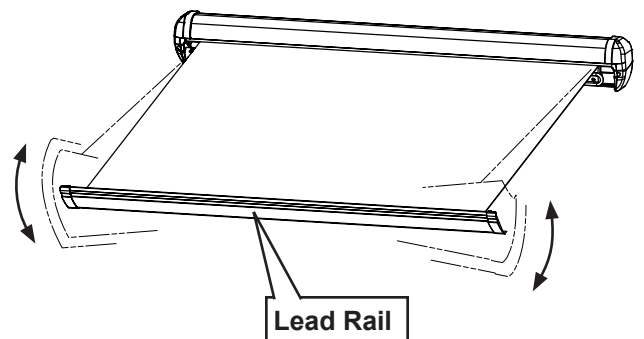
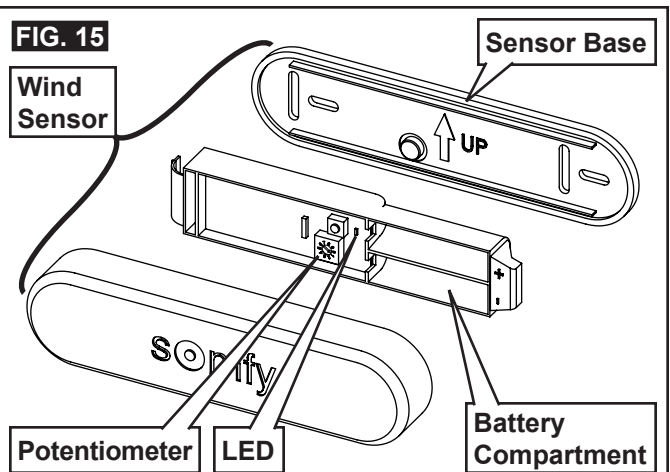


FIG. 15



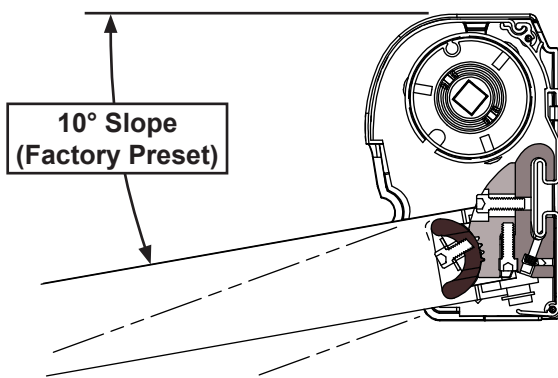
D. Adjust Fabric Slope (If Desired)

⚠ WARNING

Any adjustment of this hardware must be performed by a Dometic, LLC Service Center or a qualified service technician only. Improper adjustment of this product can be extremely hazardous and could result in personal injury or property damage.

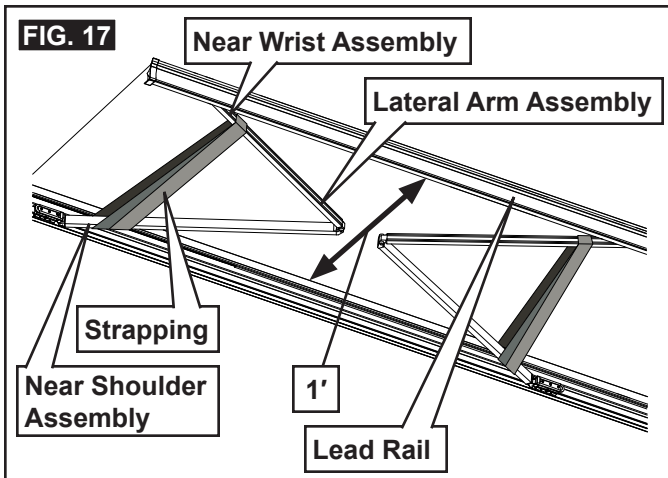
The cassette awning is factory preset for a 10° fabric slope to help accommodate water runoff. Alternatively, the awning may be set for a 20° fabric slope if there is adequate door clearance, etc. See FIG. 16.

FIG. 16



1. Extend awning far enough to access shoulder (approximately 1'). See FIG. 17.

FIG. 17



2. Remove power from awning.

⚠ CAUTION

PINCH HAZARD. Make sure power is removed from awning before working near lateral arm assemblies. Otherwise, user may accidentally operate awning while work is in progress. Failure to obey this caution could result in injury.

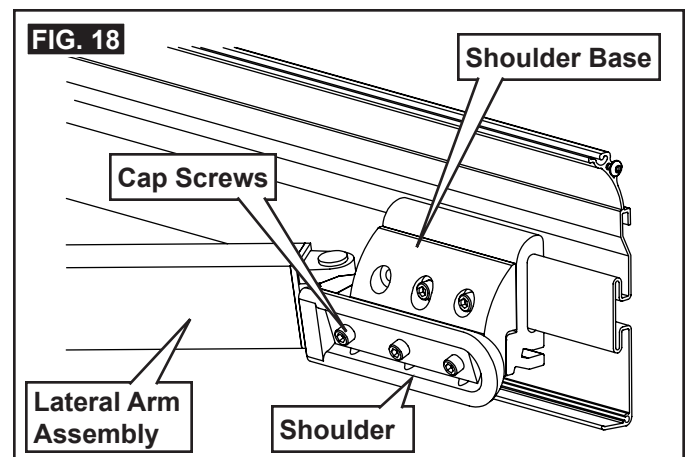
3. Tie all lateral arm assemblies securely (with fabric strapping or light rope) near shoulder and wrist. See FIG. 17.
4. Support weight of lead rail and lateral arm assemblies securely.

⚠ WARNING

IMPACT OR CRUSH HAZARD. Make sure lateral arm assemblies are tied and supported securely (with lead rail) before loosening fasteners. Otherwise, the lead rail and lateral arm assemblies could shift or drop quickly and unexpectedly. Failure to obey this warning could result in death or serious injury.

5. Loosen the (3) cap screws (3.5 turns maximum) clamping the shoulder to the shoulder base on (1) lateral arm assembly only. See FIG. 18.

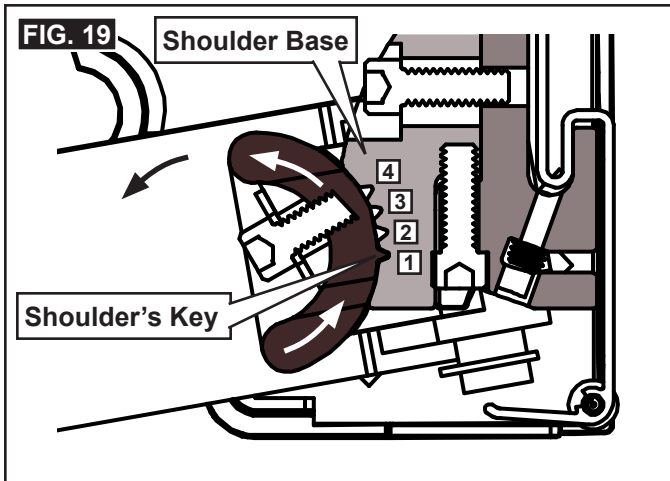
FIG. 18



⚠ CAUTION

PINCH POINT HAZARD. Keep clear of pivot area when raising or lowering lateral arm assembly. Failure to obey this caution could result in injury.

6. Pivot the lateral arm assembly down (rotate shoulder in shoulder base to lower lead rail) until shoulder's key aligns with shoulder base's groove at position "2". See FIG. 18 and 19.



7. Tighten cap screws to 140 in-lb torque to re-clamp the shoulder to the shoulder base. See FIG. 18.
8. Repeat steps (5) through (7) for each lateral arm assembly. Remove ties when done.

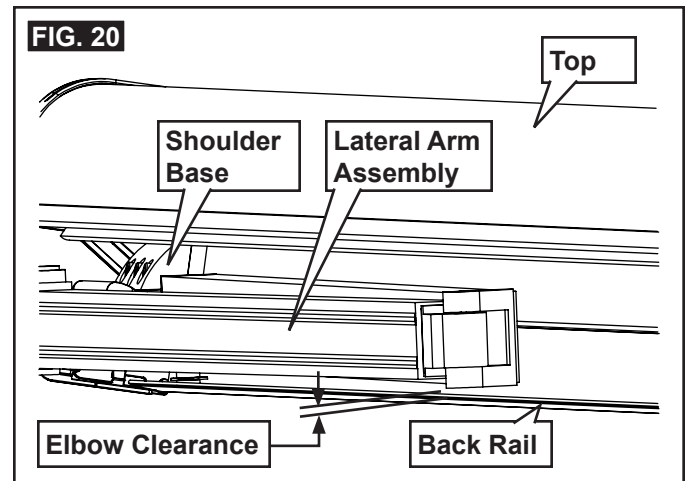
E. Readjust Lateral Arm Assemblies (If Required)

NOTICE

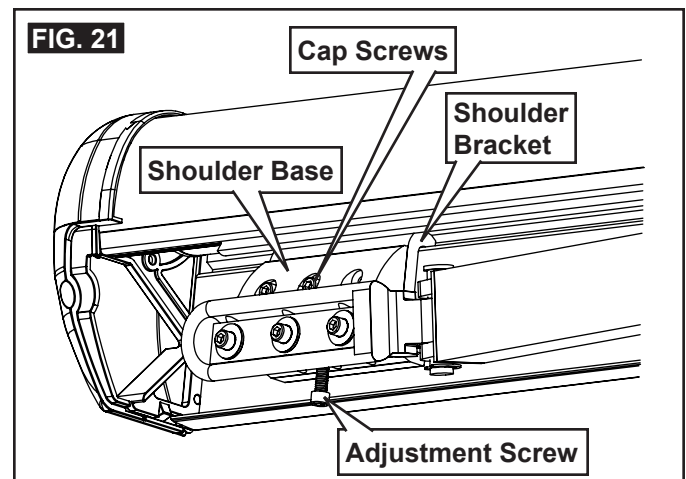
Do not allow lateral arm assemblies to rub against lower lip of back rail when closing, or against awning fabric when fully opened. Failure to obey this notice could result in property damage.

After fabric slope adjustment, verify that cassette awning will close without interference. If awning will not close properly, or if lateral arm assembly's elbow will not clear back rail, it will need readjustment. See FIG. 20.

Note: The lateral arm assembly's elbow should just clear (slightly above) lower lip of back rail without rubbing. Adjusting too high may interfere with top (awning case), or may cause shoulder base to contact awning fabric.



1. Extend awning far enough to access shoulder base (approximately 1'). See FIG. 21.



2. Remove power from awning.

⚠ CAUTION

PINCH HAZARD. Make sure power is removed from awning before working near lateral arm assemblies. Otherwise, user may accidentally operate awning while work is in progress. Failure to obey this caution could result in injury.

3. Support weight of lead rail and lateral arm assemblies securely.

⚠ WARNING

IMPACT OR CRUSH HAZARD. Make sure lead rail and lateral arm assemblies are supported securely before loosening fasteners. Do not completely remove fasteners, or loosen them so far that shoulder base will disengage from shoulder bracket. Otherwise, the lead rail and lateral arm assemblies could drop quickly and unexpectedly, or lateral arm assemblies could extend to the side, beyond awning perimeter quickly and unexpectedly. Failure to obey these warnings could result in death, serious injury, or property damage.

4. Slightly loosen the (2) cap screws (per lateral arm assembly) clamping the shoulder base to the shoulder bracket. See FIG. 21 and 22.

Important: Loosen cap screws just enough to relieve clamping pressure on components. Do not loosen any farther.

5. Readjust lateral arm assembly's closing height. See FIG. 20, 21 and 22.

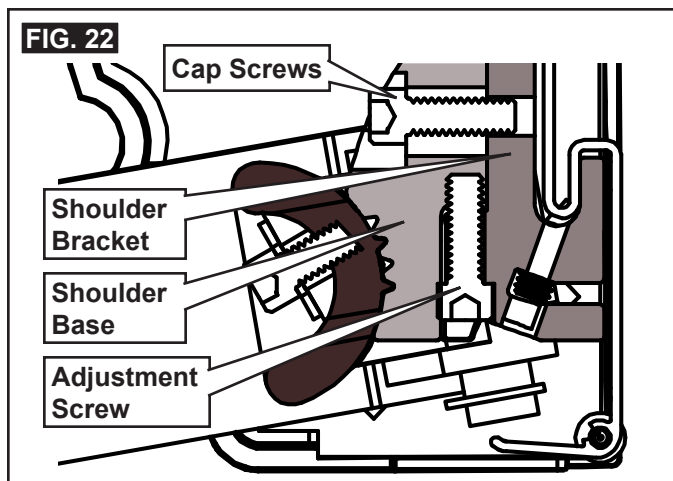
- a. Apply power to awning.
- b. Retract awning until lateral arm assembly's elbow meets top and back rail to check for clearance.

Note: Allow enough gap to access adjustment screw. See FIG. 22.

- c. Turn adjustment screw in shoulder base IN to raise or OUT to lower lateral arm assembly.

Note: This will also affect the lead rail height. See "Realign Lead Rail" section to adjust lead rail alignment.

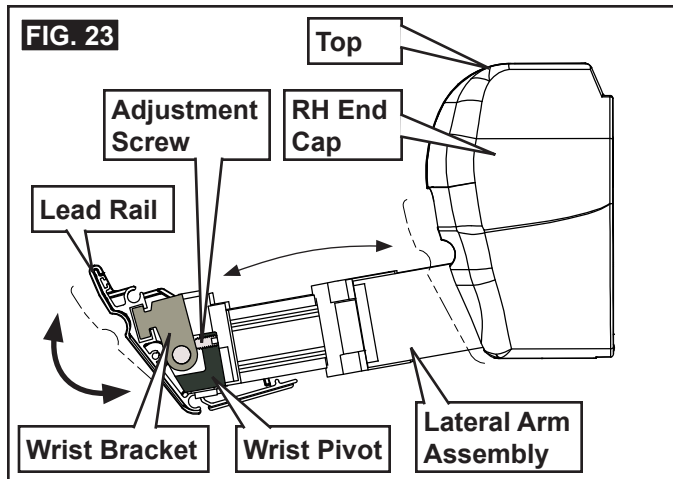
- d. When you reach appropriate clearance, extend awning far enough to access shoulder base (approximately 1').
- e. Remove power from awning.
- f. Tighten the (2) cap screws to 140 in-lb torque (for each lateral arm assembly) to clamp the shoulder base to the shoulder bracket.



F. Realign Lead Rail (If Required)

After fabric slope and lateral arm assembly adjustments, the lead rail may need realignment with top and end caps. See FIG. 23.

1. Check alignment of lead rail against top and end caps.
2. With power applied to awning, extend awning far enough to access adjustment screw in wrist pivot (approximately 6").
3. Remove power from awning.
4. Tilt lead rail, by turning adjustment screw in wrist pivot (for each lateral arm assembly), until alignment appears correct.
 - a. Turn clockwise to tilt lead rail forward.
 - b. Turn counter-clockwise to tilt lead rail back.
5. Apply power to awning.
6. Retract awning again to check alignment of lead rail against top and end caps.
7. Repeat steps (2) through (6) as necessary.



G. Secure Awning For Travel

⚠ WARNING

Examine installation for imbalance, or signs of wear or damage to cables and other critical parts. Any adjustments or repairs must be performed by a Dometic, LLC Service Center or a qualified service technician.

1. Operate awning according to the Operating Instructions to verify all parts are functioning properly.
2. Secure awning for travel. (See "Close Awning" in Operating Instructions.)