



RECORD THIS UNIT INFORMATION FOR
FUTURE REFERENCE:

Model Number _____

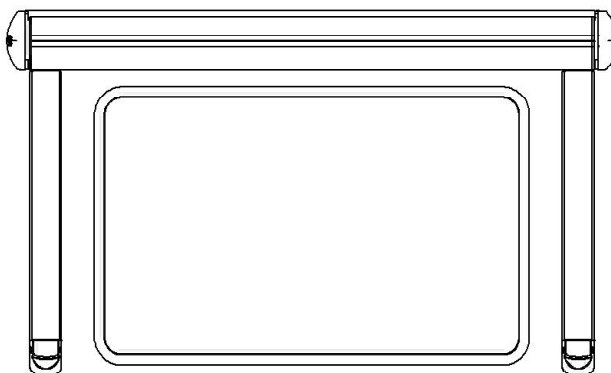
Serial Number _____

Date Purchased _____

MODELS

89000(XX).(XXX) AWNING
860000(X).400(X) HARDWARE

Power Window Awning



USA

SERVICE OFFICE
Dometic, LLC
2320 Industrial Parkway
Elkhart, IN 46516
574-294-2511

CANADA

Dometic, LLC
46 Zatonski, Unit 3
Brantford, ON N3T 5L8
CANADA
519-720-9578

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

89000 SERIES
860000 SERIES

REVISION:

Form No. 3309089.013 5/10
(Replaces 3309089.005)
(French 3309113.011)
©2010 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. 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 INSTRUCTIONS

⚠ CAUTION

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

⚠ WARNING

Improper installation may damage equipment/ could endanger life, cause serious injury and/ or property damage.

GENERAL INFORMATION

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

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

Important: This awning must be installed by a qualified person.

Tools Required

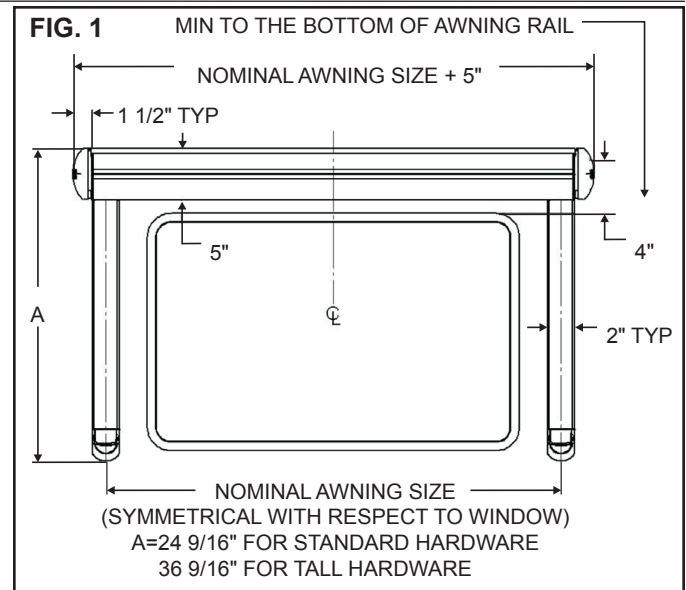
Electric Drill	5/16" Drill Bit
3/16" Drill Bit	Pop Rivet Tool
Silicone/Tape Sealant	Step Ladder
7/64" Allen Wrench	Silicone Lubricant
Flat Head Screwdriver	

A. Position Of The Awning

1. Verify that you have ordered the correct nominal awning size for your application. Note that the nominal awning size is the center-to-center distance between the hardware after installation. This does not correspond to the length of the case. The case should measure 2 (two) inches more than the nominal awning size (see FIG. 1). HOW TO DETERMINE CORRECT AWNING SIZE: Measure the width of your window, including insulation, trim, and any other decorative or structural obstacle. Add 3 (three) inches to this maximum measurement. The resulting number is the minimum awning size for your application. Be aware that the Dometic Power Window Awning is offered in increments of 6" starting from 48". Consult your Dometic sales representative for the next nominal awning size.

EXAMPLE: if the window measures 48" to the outermost trim, add 3" = 51". The next available nominal size is 54". You must order a 54" awning size for this application.

2. Before beginning installation of the case, be sure that awning will clear all trim in the installation area. Verify there are no obstructions, which might prevent sliding awning into rail. Use the reference dimensions in FIG. 1 to help you plan for the best location of the awning.
3. Check for a solid backing or under-structure where screws are to be used.
4. Before drilling, be sure that there are no obstacles inside the wall (cables, wires, etc.).
5. The minimum clearance from the bottom edge of the awning rail (awning rail must be installed with hole-strip pointing down) to the window trim is 4 inches.



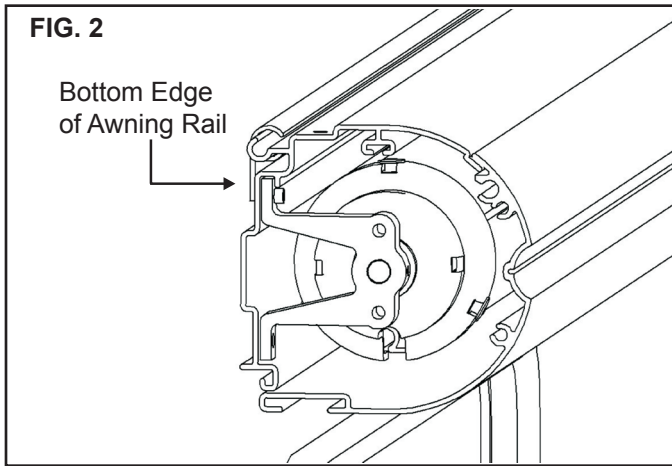
INSTALLATION INSTRUCTIONS

A. Awning Rail Installation

1. Center and level awning rail (supplied) over window with the bottom edge of the rail at least 4 inches above any window trimming, gasket, or obstruction. Secure in place with 6-20X.50" screws (supplied) or Oscar rivets (not supplied). Apply sealing tape or suitable sealant as required between rail and coach wall.

Note: Awning must be installed with awning rail supplied with unit. Awning rail must be attached to coach "upside-down" (with hole-strip pointing down). The awning case has been designed to conceal the awning rail when installed in this manner (See FIG. 1 and 2).

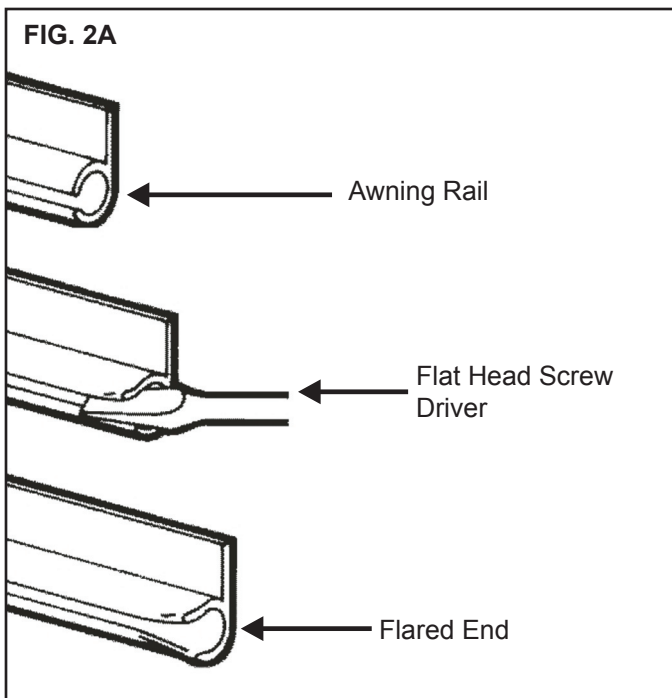
Important: Structural backing is required where mounting screws will be installed through side walls for securing Awning Rail.



B. Awning Installation

1. Remove any packaging material surrounding the awning case.
2. For ease of installation, apply silicone lubricant to the first 2-3 feet of awning rail.
3. Slide the awning into the awning rail. To aid in the installation, flare end of awning rail before attempting to slide awning into rail (See Fig. 2A).

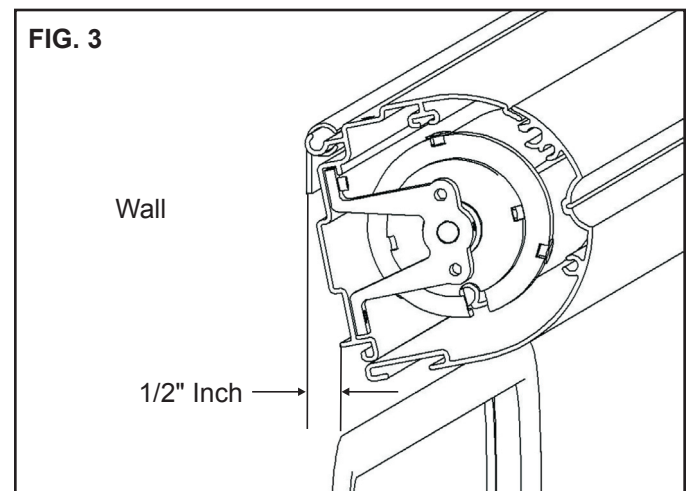
Note: For best results, hold the awning case at an angle from the wall of the coach. The appropriate angle results when the bottom edge of the case is lifted from the wall approximately ½ inches (just enough to allow your fingers to slide in between the case and the coach wall) (See FIG 3). Failure to hold the case at the appropriate angle may result in binding and difficult installation.



4. Center awning over window. The edge of the case will extend approximately one inch beyond the edge of the awning rail on each side.
5. If it is not possible to slide the awning into the awning rail due to obstructions, it is possible to "snap" the awning into place. To do this, hold the awning at the desired location in front of the awning rail. Hook the awning to the rail by holding it at a 45° angle to the coach wall and gently sliding the feature at the back of the case into the awning rail. Swing the case down until it snaps against the wall.

Note: This may be easier to accomplish in a progressive motion rather than all at once. Start on one end and snap in place one section at a time (12-16 inches) down the length of the awning. The awning case will flex and roll enough to allow this procedure.

6. The front rail should have some slack with respect to the case. This is normal and desirable for easy assembly of the hardware arms. If the front rail is rolled up tightly against the case, you may give it some slack by briefly energizing the motor with a portable 12VDC source (you will find the power cord tucked inside the case). Apply positive polarity to brown wire. You are now ready for the hardware installation.



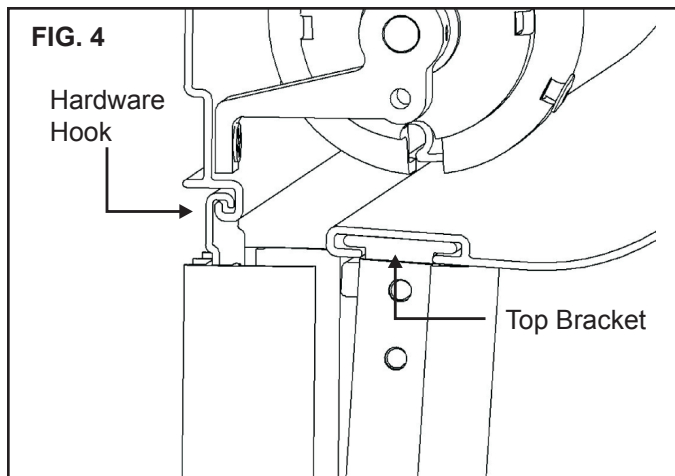
C. Hardware Installation

1. Each hardware arm assembly comes with two wire ties keeping it closed. The tie kept in place by the caution/ warning decal must remain in place at this time. The slack in this wire tie will allow the hardware to be opened only partially. Remove only the other tie and leave the one held in place by the caution/ warning decal.

⚠ CAUTION

The hardware arm assemblies are pressurized and will spring open. Do not remove the nylon ties until instructed to do so. Failure to follow these instructions could cause serious personal injury or property damage.

2. With the hardware arm assembly secured in the partially open position, simultaneously slide the top extrusion into the front rail and the hardware hook into the case (See FIG. 4). The outer edge of the hardware should be flush with the edge of the case. Repeat with the opposite end. Hardware arms should be symmetrical with respect to the centerline of the case (See FIG. 1).
3. Cut and remove the second set of ties. You will secure the case and hardware with screws (or Oscar rivets) to the coach wall in Section E. You are now ready for the electrical connection and wired remote switch installation.



D. Electrical Connection and Wired remote switch Installation

1. Once the awning case and hardware have been centered over the window, make a 5/16" hole through the coach wall half an inch to the right of the case. The hole must be approximately centered with the roller tube bracket (See FIG. 5). This hole will be used to route power wires to the awning motor in the next steps.
2. Choose a location for the wired remote switch next to the window inside the vehicle. Location must be such as to avoid accidental actuation of the switch by cabinet doors, furniture, slide rooms, etc.

IMPORTANT: switch plus flag connectors require a minimum wall thickness of 1 3/4". Spacer bezels (installer supplied) may be used if wall thickness is less than 1 3/4".

3. Your awning switch may come with a separate bezel and decal, but you can choose to install it by itself. If inside paneling is already installed, make a rectangular hole 0.830" wide by 1.450" tall (for installation without bezel) or 1.000" wide by 1.750" tall (for installation with bezel) at chosen switch location. You will be able to snap the switch into place once installation is complete, or snap the decal and bezel into the switch and secure to the wall panel with screws.
4. Run electric wires from the awning motor to the switch location inside the vehicle through the 5/16" hole made in step 1 and down the inside of the coach wall. The 6ft long power cable attached to the motor should be long enough for most applications. If additional length is needed, or if the connection is to be made outside the coach wall due to previous electrical preparation, you may trim power cable and splice additional length of wire as needed. To avoid voltage drop between awning and switch, follow the wire length guide listed below:

Wire Length	Wire Size
10' & Under	14 Gauge
11' to 30'	12 Gauge
Over 30'	10 Gauge

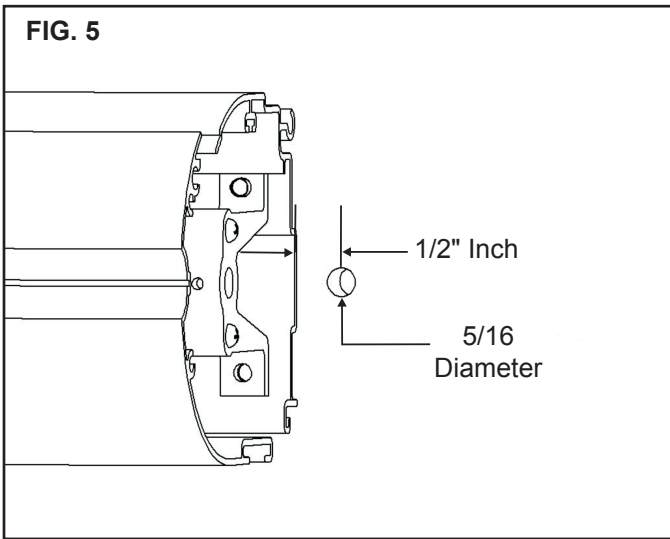
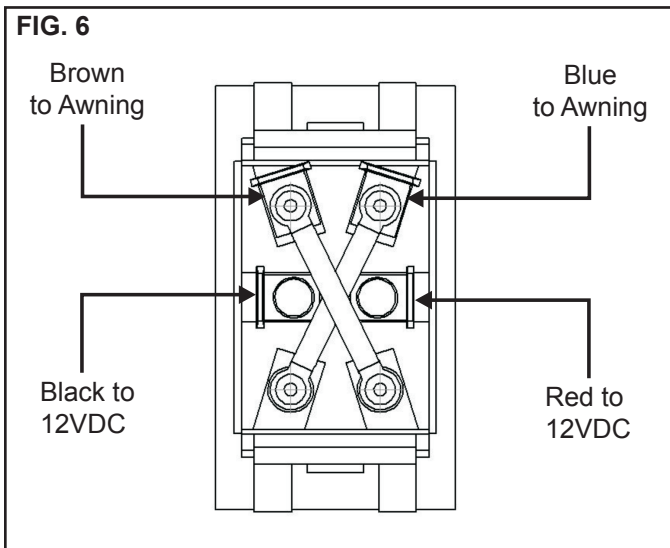
5. Connect the power cable from the awning motor to the wired remote switch using 1/4" flag connectors (installer supplied). See FIG. 6 for proper pin designations.
6. Run two wires from the wired remote switch to the 12VDC supply source. It is recommended that these wires be (Red+ and Black-) 12 gage wires. This should be on a separate 15amp fused circuit. Connect the Red and Black wires from the power source to the switch using 1/4" flag connectors (installer supplied) as per FIG. 6.

⚠ WARNING

Unprotected circuit could create a fire hazard. This circuit must be protected with a 15 amp fuse. Failure to follow these instructions could cause death or serious personal injury.

Important: Always seal where wires enter coach and protect wires from chafing. All splices should be insulated. Secure any excess wire to prevent damage.

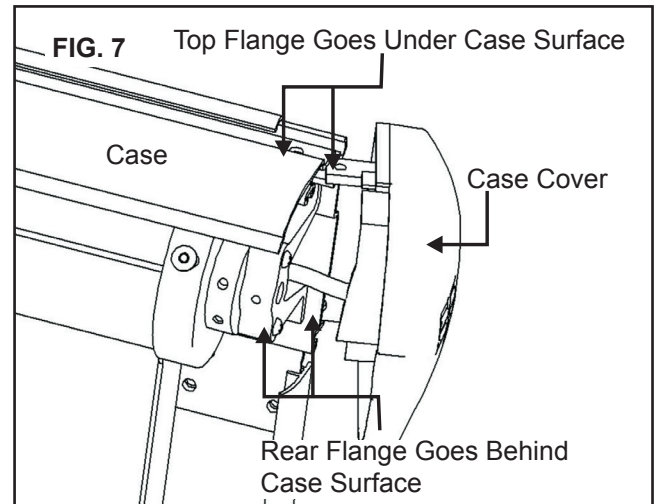
7. To ensure proper operation, the awning must have a minimum of 12.5VDC at the switch during awning operation. It may be necessary to increase the wire size if voltage drops below 12.5VDC.

FIG. 5**FIG. 6**

E. Secure Hardware/ Cover Installation

1. Extend awning approximately 26" by pressing down on the rocker switch. Verify that hardware is plumb and in the desired location.
2. Find screw pack inside hardware (screw pack is included inside arm with serial number label). Apply gentle pressure downward at the hardware elbow to ensure hardware is as low as the hardware hook will allow. Drive one #8X1 3/8" screw (supplied) through the oval hole in back channel and into the coach wall. The oval hole will allow for fine adjustments (if needed) before the rest of the fasteners are applied. If no structural backing is available behind the wall, you may use the supplied 3/16"X 1" Oscar rivets by pre-drilling 3/16" holes into the wall using the back channel as guide. Repeat on opposite end.

3. Slide right-hand case cover in place at the right end of the case. The top flange of the cover should fit inside and under the top surface of the case (See FIG.7). The rear flange should fit behind the rear wall of the case, between the case and the coach wall. The rear wall of the right-hand case cover has a large notch to accommodate the motor cable. Check that any silicone sealant or excess wire do not interfere with the case cover.



4. Ensure that both holes line up with the corresponding holes in the case. Drive one (1) #8X3/8" screw (supplied) through the top hole in the case and into the flange in the case cover.
5. Drive one (1) #8X1-3/8" screw (supplied) through the bottom hole in the roller tube bracket, through the case, through the case cover, and into the coach wall.
6. Line up right-hand front rail cover with right end of front rail. Ensure holes in cover line up with hole channels in front rail.

Note: Ensure correct cover is installed in each side. Each cover has countersunk holes on its outer face only.

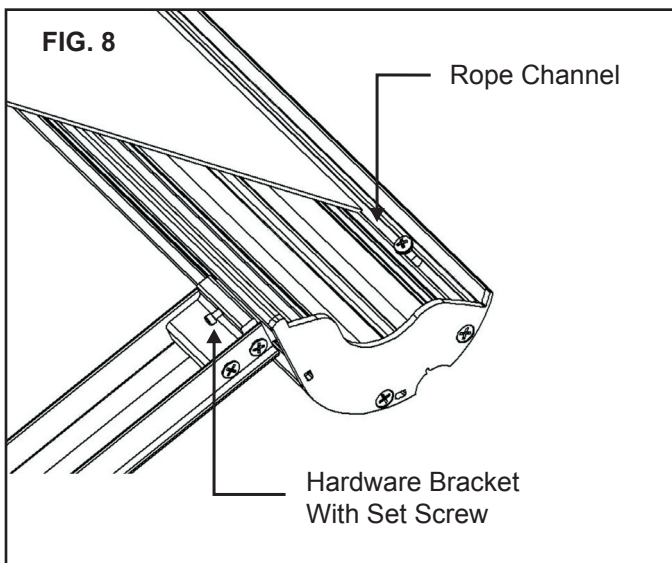
Secure cover to front rail with two (2) #8X1/2" flat head screws (supplied).

7. Repeat Steps 3-6 on the left side.

F. Final Adjustments

1. Check that front rail is centered with case. There should be a gap of approximately 1/8" between the case cover and the front rail cover in each side (this gap may be smaller or bigger for each unit, depending on manufacturing tolerances). This is a designed feature to allow operational clearance.

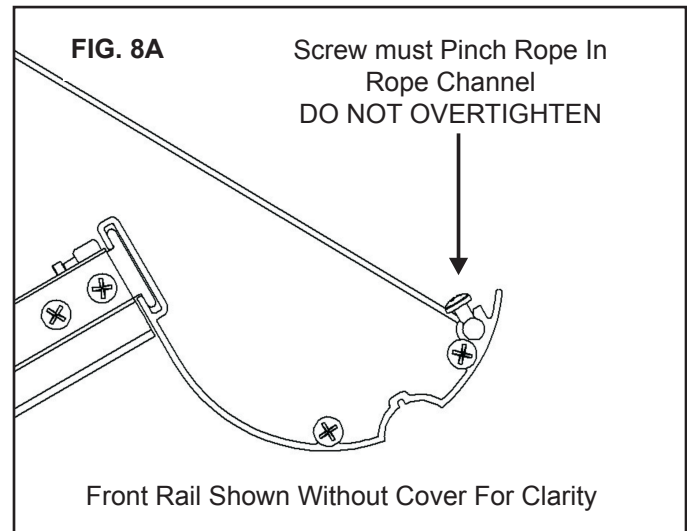
2. Locate the rope channel in the front rail (See FIG. 8). Approximately 1-2" of excess poly rope should be visible inside the channel at each end of the fabric assembly. Secure fabric to front rail by driving two #8X3/8" screws (supplied) into the rope channel in the front rail (one at each end). The screws are to be perpendicular to the rope (See FIG. 8A). The screws are meant to pinch the excess rope at each end of the fabric, which will keep the fabric from sliding in the front rail. It is not necessary to drive these screws until they bottom out, as this may cut the rope instead of pinching it. Tighten these screws only enough to pinch the rope. **DO NOT OVER-TIGHTEN THESE SCREWS.**
3. Secure the hardware to front rail by tightening the screw in each hardware bracket (hardware must be partially open for this step, see FIG. 8).



4. Close and open awning to verify fabric is tracking correctly. Loosen screws in FIG. 8 and fine adjust position of front rail if necessary.

Note: Awning extension is calibrated for Standard hardware. If you intend to use this awning with Tall hardware, see Section H (Limit Switch Adjustment) for instructions on adjusting the awning extension.

5. If no more adjustments are necessary, open the awning and finish securing the hardware with screws or Oscar rivets through the remaining holes.



CAUTION

Damage to the roller tube, brackets, or case could occur if the front rail is improperly aligned. When closing the awning for the first time, visually inspect the awning closing and if not aligned properly, stop closing awning until correct alignment has been obtained.

G. Other Installation Notes

1. To prevent water leakage, always use silicon sealant where each fastener enters the sidewall of the vehicle.
2. Do not over tighten fasteners. This will cause them to "strip out" and severely weaken their holding ability.

H. Limit Switch Adjustment

1. The Dometic, LLC Power Window Awning comes equipped with limit switches to stop the motor at full extension or full retraction. These limits are set at the factory for Standard hardware, and typically should not need any adjustment by the installer or the user. If adjustment of the limit switches is deemed necessary, or if the awning is to be used with Tall hardware, an adjustment tool is included with the Dometic, LLC Power Window Awning (or use a 3mm Allen Wrench).

2. **HOW TO DETERMINE IF ADJUSTMENT IS NECESSARY:** The front rail should fit snug against the case when the awning is fully retracted. The motor should turn itself off and stop trying to turn when the awning is fully retracted. If the motor continues to try to turn once the awning is closed, damage to the motor or awning components may occur. Refer to FIG. 9C for details on adjusting the limit switch for less retraction. The motor should also stop upon full extension. The appropriate projections are illustrated in FIG. 9A for Standard or Tall hardware. Note that the dimensions illustrated are from the leading lip of the awning case to the leading edge of the front rail. Also note that the hardware will not be perpendicular to the coach wall (the proper angle is about 80 degrees). If awning is allowed to extend beyond those points, the hardware could bottom out and cause the fabric to sag. Refer to FIG. 9C for details on adjusting the limit switch for less extension.
3. **ADJUSTING EXTENSION LIMIT SWITCH FOR TALL HARDWARE:** The Dometic, LLC Power Window Awning comes calibrated for use with Standard hardware. In order to get the appropriate extension for Tall hardware, the extension limit switch must be adjusted by turning it 20-22 full turns clockwise using the provided tool or a 3mm Allen Wrench (See FIG. 9B and 9C). We recommend initially turning the limit switch no more than 20 full rotations, then fine adjusting in quarter-turn increments until the desired extension is achieved (See FIG. 9A).

FIG. 9B

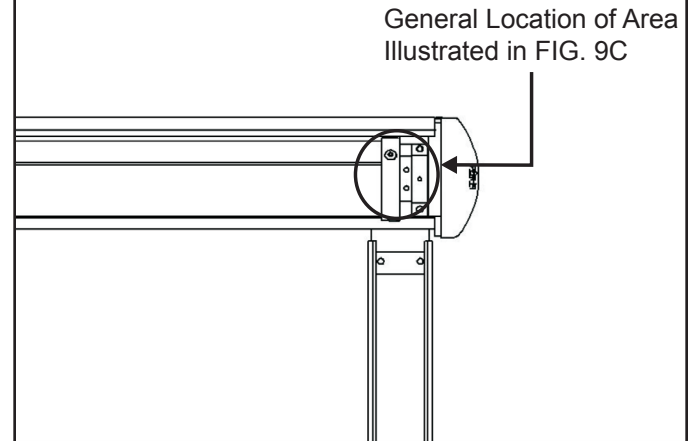


FIG. 9C

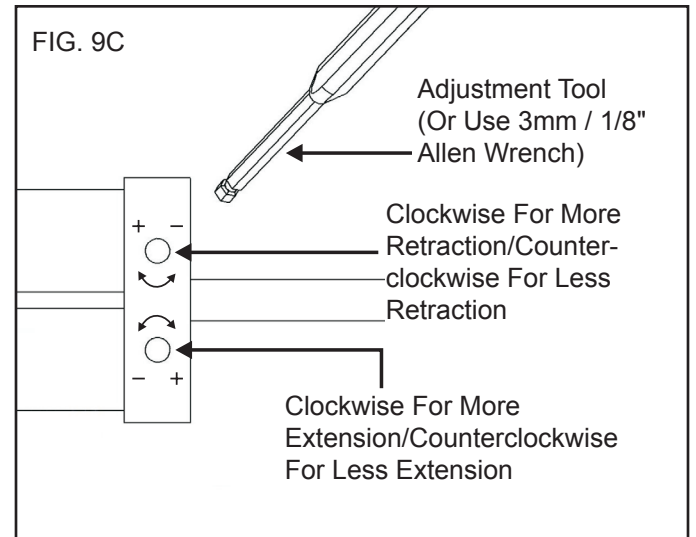
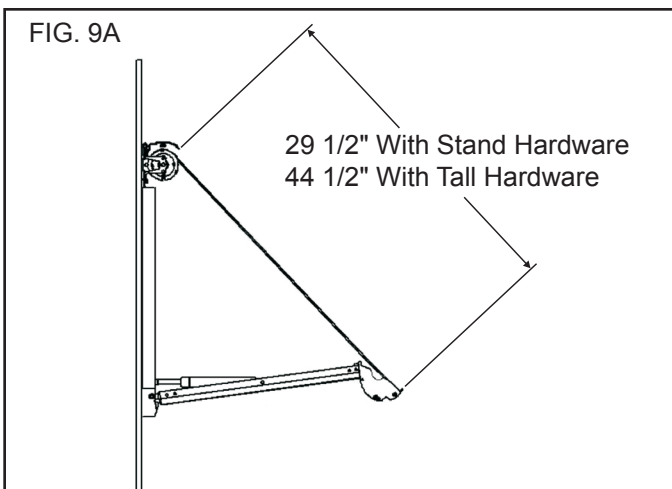


FIG. 9A



OPERATING INSTRUCTIONS

Important: Always check for obstructions or potential hazards when opening or closing any awning.

A. To Open

1. Press and hold rocker switch in the upward position. The awning will stop on its own once it reaches its full extension, or you can stop it at any point by releasing the switch.

B. To Close

1. Press and hold rocker switch in the downward position. The awning will stop on its own once it reaches its full retraction, or you can stop it at any point by releasing the switch.

Important: Avoid pressing the switch for an extended period of time after the awning has come to a stop, as this may cause damage to the electrical components.

CAUTION

Electrical components hazard. Damage to electrical components could occur if switch is not released when awning comes to a stop.

TROUBLESHOOTING AND EMERGENCY PROCEDURES

1. The Dometic, LLC Power Window Awning is designed for safety even in the event of electrical failure. With this in mind, the motor brake will not allow the awning to open or close unexpectedly in the event of power failure. If you cannot open or close the awning by pressing the wired remote switch, check the following:
 - Check for any physical obstructions or damage to the awning.
 - Check that the 15Amp fuse for the awning's circuit is not burned out.
 - Check that the battery voltage is at least 12.5VDC.
 - If possible, check that appropriate electrical connections are secure and free of rust.
2. If none of the procedures above are successful, you will need to visit a Dometic Authorized Service Center.

WARNING

Driving Hazard, Never drive your vehicle with the awning extended or unsecured. Failure to follow these instructions could cause death or serious personal injury.

3. If the awning is in its extended position, you will need to secure it in its closed position before driving your vehicle. Follow the following procedure:
 - Push the front cover of the awning closed against the case.

Note: The fabric may not roll in when cover is closed against case. If the fabric does not roll in, tuck in the excess inside the awning before shutting the front cover against the case.

- Secure the hardware in the closed position by sliding a sturdy rope, nylon string, wire, or wire tie behind the hardware hook. Take care not to scratch or damage the coach wall (See FIG. 10A & 10B).
- Tie securely around the front of the front channel. This will keep the front cover secured against the awning case. Make sure to secure both hardware arms.