

# **POWER**

## *Patio Awning*

### **WeatherPro Hardware**

**855(X)004.40(X)(X) 5th Wheel Standard Hardware  
FOR  
8(X)5(XX)(XX.XX)(X)(X)  
Fabric Roller Tube Assembly**

**USA**  
SERVICE OFFICE  
Dometic Corporation  
1120 North Main Street  
Elkhart, IN 46514

**CANADA**  
Dometic Corporation  
46 Zatonski, Unit 3  
Brantford, ON N3T 5L8  
CANADA

**SERVICE CENTER &  
DEALER LOCATIONS**  
Please Visit:  
[www.eDometic.com](http://www.eDometic.com)

#### **⚠ 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 INSTRUCTIONS**

### **MODEL**

**8(X)5(XX)(XX.XX)(X)(X)FRTA  
855(X)004.40(X)(X)  
Hardware**

## SAFETY INSTRUCTIONS

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

### RECOGNIZE SAFETY INFORMATION



This is the safety-alert symbol. When you see this symbol in this manual, be alert to the potential for personal injury.

Follow recommended precautions and safe operating instructions.

### UNDERSTAND SIGNAL WORDS

A signal word, **WARNING** OR **CAUTION** is used with the safety-alert symbol. They give the level of risk for potential injury.

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

**CAUTION** indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

**CAUTION** used without the safety alert symbol indicates, a potentially hazardous situation which, if not avoided, may result in property damage.

Read and follow all safety information and instructions.

## GENERAL INFORMATION

COVERED BY PATENT 5383346, 4941524, D366763, 6095221, 6230783, D414880, 6164883, 6276424, 6230786, D410192, D429894 & 6273172  
OTHER PATENTS PENDING

### REQUIRED PARTS (Packed with each Hardware Assembly)

8553004.40(X)(X) & 8554004.40(X)(X) Hardware  
(2) Bottom Bracket Cover (3109752.000(X))  
(4) #14-10 x 1-1/2" Hex Head Screw (3104499.003)  
(4) #14-10 x 2" Hex Head Screw (3104499.086)  
(2) .25" Split Lock Washer (3101746.000)  
(4) #10-16 x 3/4" Hex Washer Head Self Drilling Screw (310359.013)  
(4) 3/16" x 1" Oscar Rivets (113008)  
(2) #6-20 x .44" Hex Washer Head Self Drilling Screw (310359.012)  
(2) 1/4"- 20 x 3/4" Hex Head Bolts (3104176.205)  
(2) Spacer (3307943.005(X))  
(1) Cover, Travel Lock Wire (3109577.019(X))

**Important:** Read and understand ALL of the following steps before beginning installation.

### Application

The Dometic Corporation awning is designed and intended for use on Motorhomes, Travel Trailers, and Fifth Wheels with straight sides.

**Important:** Structural backing is required where mounting screws will be installed through sidewall for securing top mounting brackets and back channels.

**Important:** Follow the Minimum distance dimensions requirements from awning rail to door. Mounting height depends on awning type and length. Insure sufficient room is available before starting installation. If questions arise, contact your Dometic Sales Representative.

Hardware Model	Metal Weather Shield
8553004.40(X)(X)	12"
8554004.40(X)(X)	12"

When the door falls in the center of the awning, add 2" to these distances.

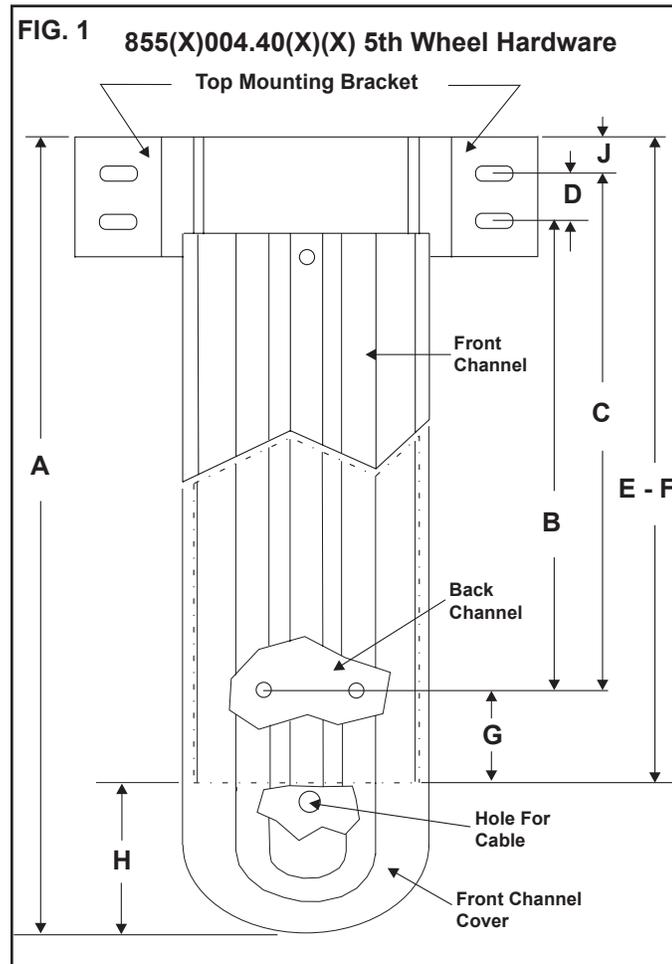
**Installation Height:** This is the center to center distance of mounting holes in the top mounting bracket and the back channel. See Specification chart and illustrations on page 3.

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

# Installation Instructions

Specification Chart	
855(X)004.40(X)(X)	
A	67-1/4"
B	63-11/64"
C	63-15/16"
D	3/4"
E	65-1/2"
F	65-1/2"
G	1-5/32"
H	1-3/4"
J	13/32"

- A = Overall length of hardware  
 B = Minimum mounting distance center to center on mounting holes.  
 C = Maximum mounting distance center to center on mounting holes.  
 D = Distance between mounting holes in bracket.  
 E = Location of hole for wire harness.  
 F = Back channel length.  
 G = Distance between bottom of back channel and center of mounting hole.  
 H = Distance front channel guard extends past back channel.  
 J = Distance from top edge of top bracket and center of first mounting hole.



Installation of Dometic Corporation awnings will briefly require three people. Use the following procedure to assure a properly installed, and properly functioning awning.

## 1. Secure FRTA to Hardware

- A. Carefully lay the fabric roller tube assembly on a clean, well padded "V" trough to prevent fabric and/or roller cover damage. Remove the hardware from the packaging and place the motorized arm on the right side. The non-motorized arm has a spring loaded bottom arm and goes on the left side.

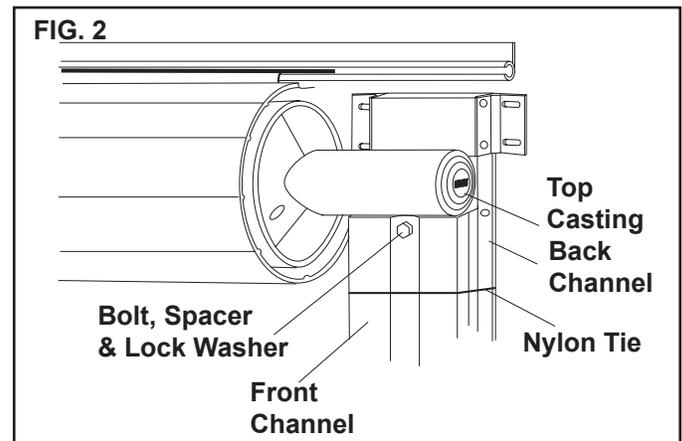
### **⚠ WARNING**

Do not remove the cotter pin located on the left end of the FRTA until instructed to do so. The FRTA is pre-wound and under tension. Rapid spin-off will occur if the cotter pin is removed.

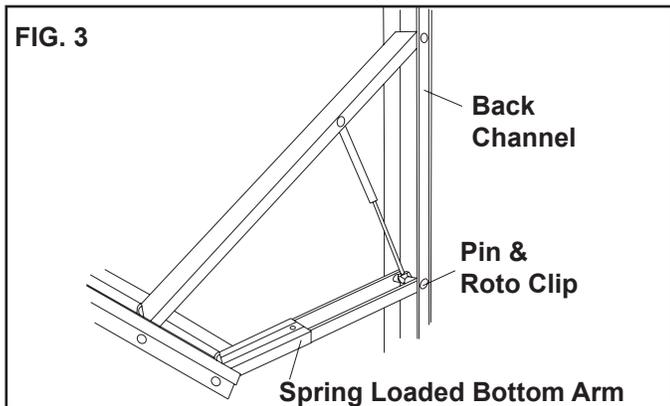
Do not remove the nylon ties until instructed to do so. The hardware arm assemblies are pressurized and will spring open. Failure to follow these instructions could cause serious personal injury or property damage.

- B. Secure each front channel to top casting mounted at the end of the FRTA. See FIG. 2. Slide top nylon tie down arm approximately 24 inches to allow hardware to open far enough to insert top casting into channel. Do Not remove nylon ties at this time. Arm assemblies are pressurized and will spring open.

Note: One hardware arm assembly is pre-wired for motor. This arm goes on the right side.



Note: One hardware arm assembly has a spring loaded bottom arm. This arm goes on left side. See FIG. 3.



- C. Using one (1) 1/4"-20 x 3/4" hex head bolt, one spacer and one (1) .25 split lock washer secure both top castings to front channels. See FIG. 2.
- D. Remove cotter pin from LH end cap.

**⚠ WARNING**

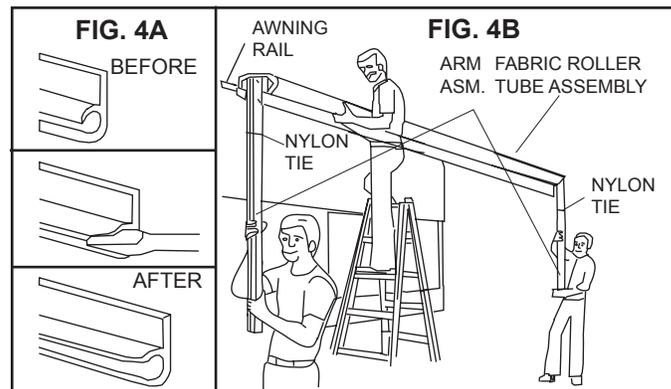
**Do not attempt to separate the FRTA from the hardware arm unless the torsion assemblies are re-pinned. The FRTA is pre-wound and under tension. Rapid spin-off will occur if separated. Failure to follow these instructions could cause serious personal injury or property damage.**

**2. Install Fabric in Awning Rail**

- A. Prepare the awning rail to accept the awning fabric. Select the end from which the awning shall be fed, then widen that end with a flat screwdriver and file off any sharp edges. See FIG. 4A.
- B. Unwind fabric one revolution before feeding awning fabric into awning rail. This will allow enough space between side wall and awning hardware to connect wires in Step 3-D-1.
- C. With one person grasping each arm assembly, carefully lift the entire assembly to an upright position.

**Important: Keep the two arm assemblies parallel to each other to avoid excessive twisting and possible damage to the assembly.**

Walk the awning to the end where the awning rail was prepared. See FIG. 4B.



A third person is now required to feed the fabric into the awning rail. The other two will walk the entire awning assembly forward and into the desired position.

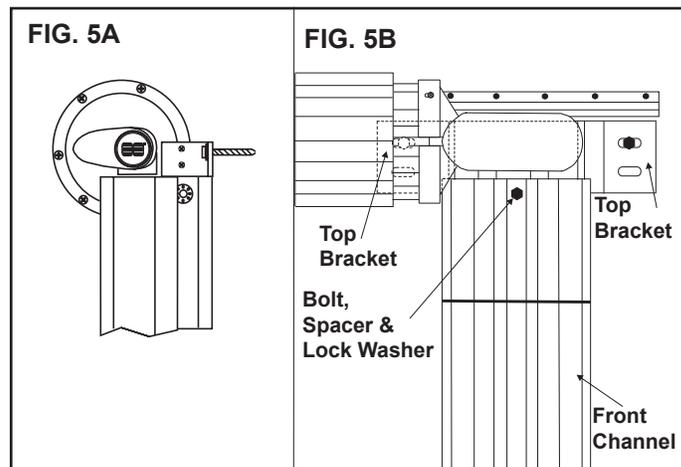
**3. Top Mounting Bracket Installation**

- A. After the complete awning assembly has been threaded into the awning rail, check that its position allows for solid mounting of the top mounting brackets and the back channels. Also insure that the back channels are in the desired location (not restricting use of doors, access doors, windows, etc.).

**Important: Structural backing is required where mounting screws will be installed through sidewall for securing top mounting brackets.**

Note: Awning rails with rain gutters may not allow the FRTA to close all the way. It may be necessary to lower the top bracket position to ensure the FRTA will close properly.

- B. On the motorized arm assembly (right side), place the top bracket in position directly under the awning rail as shown in FIG. 5B. Top bracket must be installed level with the awning rail. Using the outside bracket hole as a guide pre-drill a 3/16" hole for mounting screw. Drill a 7/32" hole if drilling into steel. Install outside top mounting bracket using one (1) #14-10 x 1-1/2" hex head screw. Seal where the screw enters the side wall with clear silicon sealer. Repeat this procedure for opposite side.



**⚠ CAUTION**

The arm assemblies must be controlled while the top mounting brackets are being installed. When the weight of the FRTA is no longer supported, the downward force could cause the arm assembly to swing side ways and may damage the sidewall if not controlled.

- C. To install screws on the inside top mounting brackets it will be necessary to pull the FRTA away from the side wall approximately 12". Remove nylon ties wrapped around the front and back channels. See FIG. 2. Grasp the front channel and slowly pull it away from the sidewall. See FIG. 6. Pre-drill hole as in previous step and install one (1) #14-10 x 1-1/2" hex head screw. Repeat this procedure for opposite side. Seal where screw enters the side wall with clear silicon sealer.

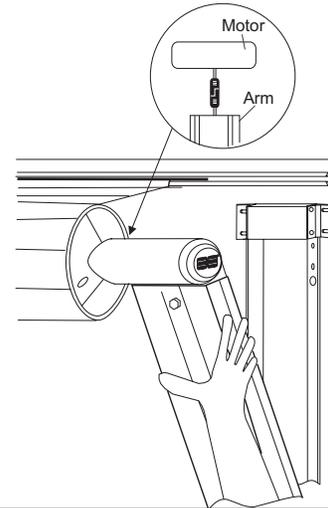
**⚠ WARNING**

Do not attempt to separate the FRTA from the hardware arm unless torsion assembly is re-pinned and the arm assemblies are re-tied. The FRTA is pre-wound and under tension. Rapid spin-off will occur if separated. The arm assemblies are pressurized and will spring open. Failure to follow these instructions could cause serious personal injury or property damage.

- D. Motor connection
1. Connect the motor wire to the factory pre-wired hardware wiring. See FIG. 6.
  2. Install wire cover in back of front channel to secure wires. This cover is pressure fitted. Slightly squeeze sides to insert into channel. Be careful not to over squeeze. This could reduce the tension causing the cover to be loose.

**Important:** Dielectric grease must be placed on all exposed pins.

FIG. 6



**4. 3307844.004 Control Box Kit and Remote Switch Installation. See individual installation instructions packaged with kit.)**

**Important:** Electronic control box is also pre-wired for installing an Oasis Elite awning. Use only wires designated for WeatherPro.

**Important:** Each control kit contains one (1) Key Fob (Remote Control) and it must stay with awning for end user.

Note: Awning is not intended for cold weather operation. Awning will close at approximately 30 degrees F. with sensor turned on.

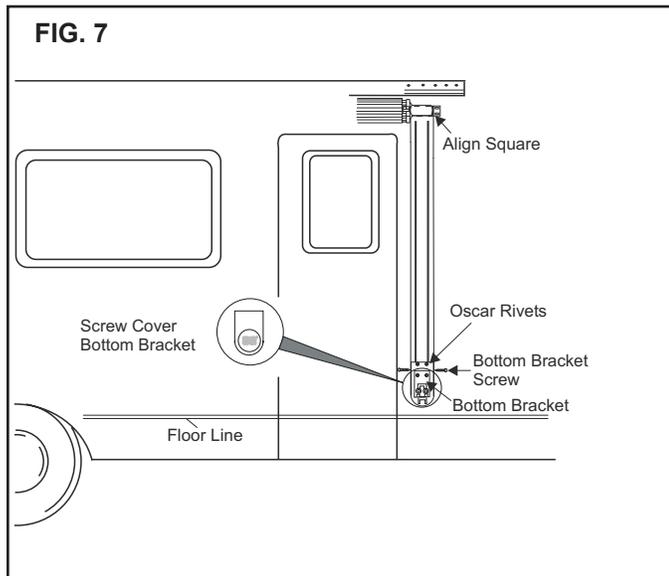
Note: The awning control box contains an audible alarm. This alarm will sound if the wind sensor is exposed to temperatures 30 degrees or below when the sensor switch is on or when the awning control has detected a problem either in the wind sensor or the wind sensor cable. If you hear a beeping sound coming from the control box when the sensor switch is in the "ENABLE" (ON) position one of the above situations has occurred. When the alarm sounds the wind sensor feature is not functioning. Turn the sensor switch to the "DISABLE" (OFF) position and wait till the ambient temperature is above 30 degrees F. and turn switch back on. If alarm is still sounding contact a Dometic Service Center or a qualified service technician for assistance.

## 5. Back Channel And Bottom Bracket Installation

**Important: Structural backing (metal) is required where oscar rivets will be installed through sidewall for securing back channels.**

### A. Securing Back Channels

1. Open awning as required to secure back channel and install bottom bracket.
2. Remove bottom bracket from inside back channel if installed.
3. Align the back channel so it is square with the vehicle and the FRTA. A door or window frame can be used to measure from. See FIG.7.



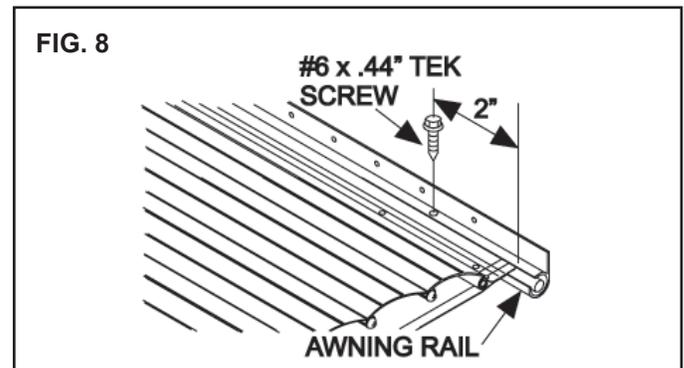
4. Drill two (2) 3/16" holes through the outside wall using the holes in the bottom of back channel as a guide. See FIG. 1.
5. Secure back channel to wall with two (2) 3/16" x 1" Oscar rivets provided. Be careful not to pinch or damage motor wire when securing channel to wall. See FIG 7.

**Important: Structural backing (metal) is required where oscar rivets will be installed through sidewall for securing back channel.**

6. Seal where the oscar rivets enter the vehicle with clear silicon sealer.
7. Slide bottom brackets back into position. While holding bottom bracket in position drive two (2) # 10-16 x 3/4" self drilling screws through hole in back channel and into bracket. See FIG. 7.

## 6. Initial Awning Adjustment

- A. Cycle the awning four or five times to check fabric alignment and to make sure the hardware is nesting properly. If there is a misalignment, adjust the arm by loosening the upper mounting bolts and move the bracket accordingly. Cycle the awning again to check the alignment. See User's Guide for opening and closing instructions.
- B. When satisfied with the alignment, secure fabric roller cover by driving a # 6-20 x .44" Tek screw through the rail and into the fabric rope. See FIG. 8 for screw location. Repeat at opposite end. Snap bottom screw cover in position. See FIG. 7. The installation is now complete and ready for use.



## 7. Close and Secure Awning

- A. If awning will not be used after installation, close and secure. See User's Guide for closing and securing instructions.