



A&E Systems



OneStep Hardware

760100(X).400 Standard Hardware

760111(X).400 Basement Hardware

FOR

705(XX)(XX).(XXX)

715(XX)(XX).(XXX)(X)

716(XX)(XX).(XXX)(X)

Fabric Roller Tube Assembly

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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

705(XX)(XX).(XXX) FRTA

715(XX)(XX).(XXX)(X) FRTA

716(XX)(XX).(XXX)(X) FRTA

760100(X).400 Hardware

760111(X).400 Hardware

REVISION

Form No. 3109392.047 5/02
(Replaces 3109392.039)
(French 3109548.044)
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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: means if the safety information is not followed someone could be injured or killed and/or damage to equipment could occur.

CAUTION: means if the safety information is not followed someone might be injured and/or damage to equipment could occur.

Read and follow all safety information and instructions.

Learn how to operate the awning properly.

GENERAL INFORMATION

COVERED BY PATENT 5383346
OTHER PATENTS PENDING

REQUIRED PARTS (Packed with each Hardware Assembly)

- (2) Top screw cover
- (2) Bottom Screw cover
- (4) #14 x 2-3/4" Hex head screw
- (4) #14 x 2" Hex head screw
- (2) 1/4" Lock washer
- (4) #10 x 1/2" Self drilling screw
- (4) 3/16" x 1" Oscar rivets
- (2) #6 x 1/2" Tek screws
- (2) 1/4" - 20 x 1/2" Hex head bolts

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

Application

The A&E 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 /oscar rivets will be installed through sidewall for securing top/ bottom mounting brackets and back channel.

Installation Height: This is the distance between the top mounting bracket and lower mounting bracket, center to center on mounting screws.

760100(X).400 -Min: 68", Max: 81"

760111(X).400 -Min: 65-3/8", Max: 65-5/8"

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 Awning Weather Shield

	Vinyl	Metal
760100(X).400	6"	7"
760111(X).400	11"	12"

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

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

Installation of A&E Awnings will briefly require three people. Use the following procedure to assure a properly installed, and properly functioning awning.

⚠ WARNING

Do not remove the 5/16" x 5" bolt from left side at this time.

1. Securing FRTA to Hardware

- 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.

Note: Loosen but do not remove nylon ties from around back channel.

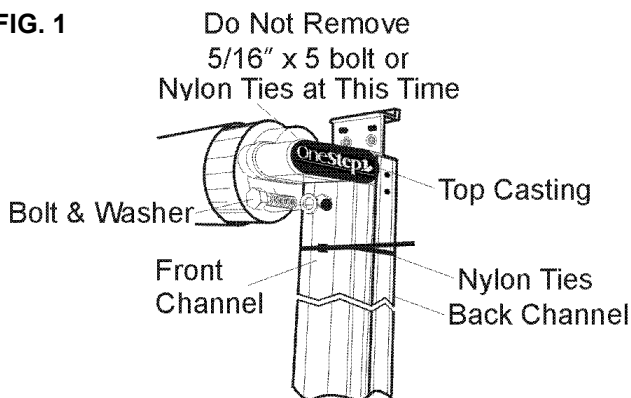
⚠ WARNING

The arm assemblies are spring loaded. Do not remove nylon ties until the unit is installed securely to the application. Failure to do this may result in personal injury or property damage.

- Secure each front channel to top casting mounted at the end of the FRTA. See FIG. 1.

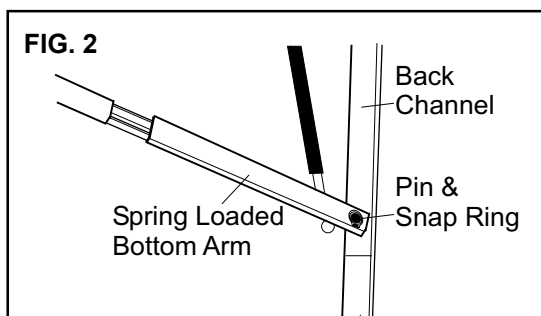
Note: One arm assembly is prewired for motor. This arm goes on the right side.

FIG. 1



Important: One front channel assembly has a spring loaded bottom arm. This arm goes on left side. See FIG. 2.

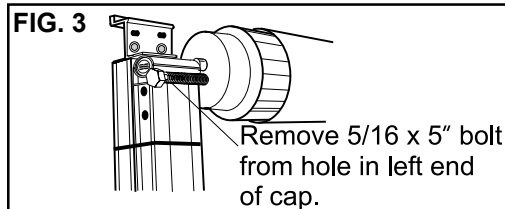
FIG. 2



- Use one (1) 1/4"-20 x 1/2" hex head bolt and (1) 1/4" lock washer to secure top castings to front channels. See FIG. 1.

- Remove the left side 5/16 x 5" bolt at this time. See FIG. 3.

FIG. 3



2. Install fabric in Awning Rail

- 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.
- Unroll one wrap of awning fabric/metal shield from roller tube before feeding awning fabric into awning rail. This will allow enough space between side wall and awning hardware to connect wires in Step 3-A-4.
- 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.

FIG. 4A

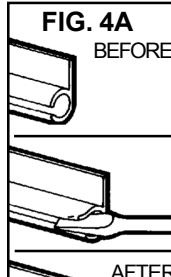
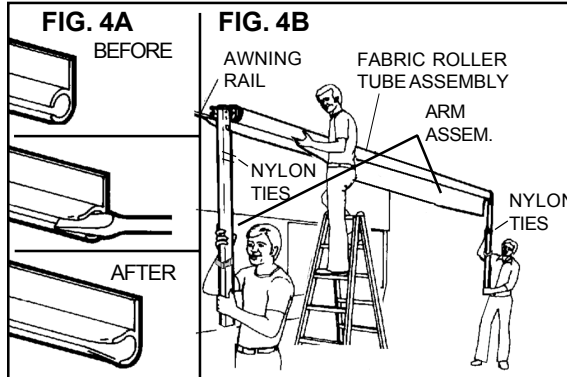


FIG. 4B



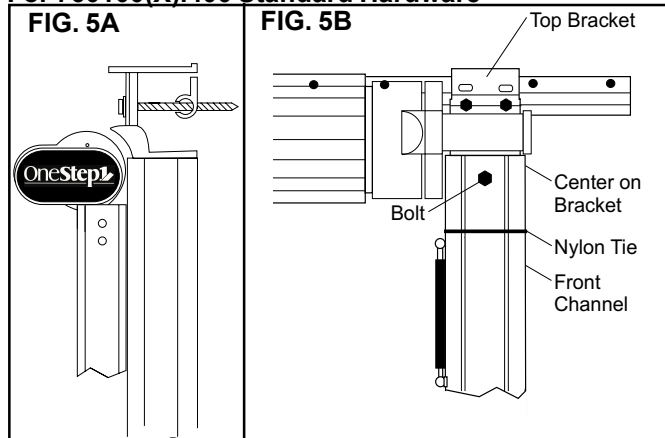
A third person is now required to feed the Fabric into the Awning Rail. The other two will walk the entire Awning Assembly forward and into the desired position.

3. Top Mounting Bracket Installation

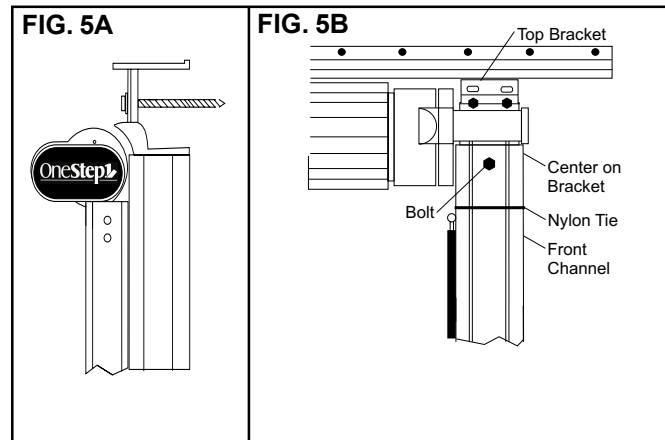
- Secure Top Mounting Brackets
 - After the complete awning assembly has been threaded into the Awning Rail, check that its position allows for solid mounting of the Top and Bottom Mounting Brackets/Back Channels. Also insure that the back channels are in the desired location (not restricting use of doors, access doors, windows, etc.).

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

For 760100(X).400 Standard Hardware

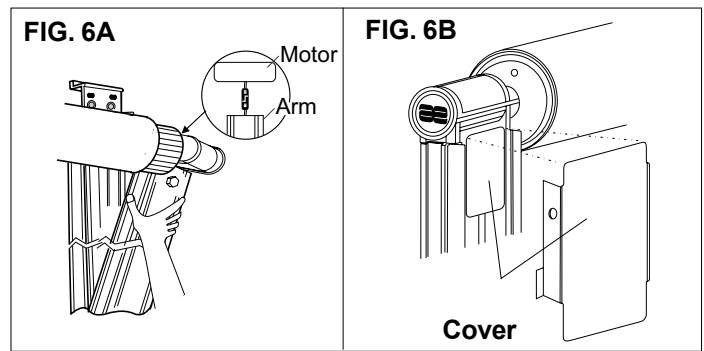


For 760111(X).400 Basement Hardware



Note: Awning rails with rain gutters may require an extension kit to prevent the FRTA from closing against the rain gutter, causing fabric damage and/or improper operation. These can be obtained through Dometic.

- On the motorized arm assembly (right side), place the top bracket in position over or directly under the Awning Rail as shown in FIG. 5A & 5B. Top mounting bracket must be installed level with awning rail. Mark the hole position for the Top Bracket and slide the assembly out of the way. Pre-drill the two holes using a 3/16" drill bit (use a 7/32" drill bit if in steel). Install Top Bracket with two #14 x 2-3/4" hex head screws. Seal where the screws enter the coach with clear silicon sealant. At this point the Arm assembly can support itself. Mount the top bracket on the opposite arm at the same height. Mark the hole position and move the FRTA out of the way to drill the holes. When doing the opposite arm, make sure the hardware is completely closed before tightening the screws. This will help in the overall alignment of the awning. Seal where screws enter the coach with clear silicon sealant.



3. Motor connection

- Remove nylon ties wrapped around front and back channels. See FIG. 5B.
- Grasp the front channel and slowly pull it away from the side wall. See FIG. 6A.
- Connect the motor wire to the factory pre-wired hardware wiring. See FIG. 6A.
- Snap cover in position. See FIG. 6B.

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

4. Control Box and Remote Switch Installation

Important: Electronic control box is pre-wired for installing an A & E Oasis Elite Awning. Use only wires designated for OneStep

A. Control Box

- First, decide on a location for the control box. Recommended locations for the control box are compartments outside the living quarters such as one of the basement storage compartments. The control box must be installed at a location where it will not be directly exposed to weather or extreme temperatures.

- Mount the control box using four (4) #6 x 1/2" screws

B. Connect Control Box to Awning

- Route two wires (installer supplied) from the control box to the bottom of right side (motorized) arm assembly.

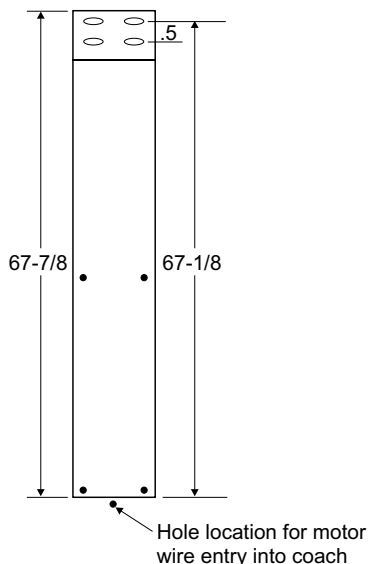
Important: When installing 760111X.400 hardware make sure channel is in proper position before drilling the 5/8" hole in side wall for wires. See FIG. 6C.

- Connect the Control Box to the Pre-wired arm assembly using the pig tail connection.

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

When routing harness, take pre-caution against wires rubbing on sharp edges and use a grommet when going through walls. Harness should be routed so that when bottom bracket and the extension are installed they will cover hole where wire goes through wall. Seal any holes with clear silicon sealant. See FIG. 6C.

FIG. 6C



C. Remote Switch

1. Install the remote switch at a convenient location such as the door area.
2. The remote switch should not be in direct exposure to weather or extreme temperatures.
3. Cut hole in structure where switch is to be installed. Place decal on bezel and pop remote switch into opening.

4. Connect the remote switch to the control box by routing three (3) wires (installer supplied) from the control box to the remote switch. These wires should be brown, yellow and green 14 gauge wires. Install 1/4" insulated terminals on the remote switch end of wires. Connect the brown, yellow and green wires to the remote switch as shown in FIG. 7. Use the Dometic supplied pig tail to connect the opposite end of wires to the control box.

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

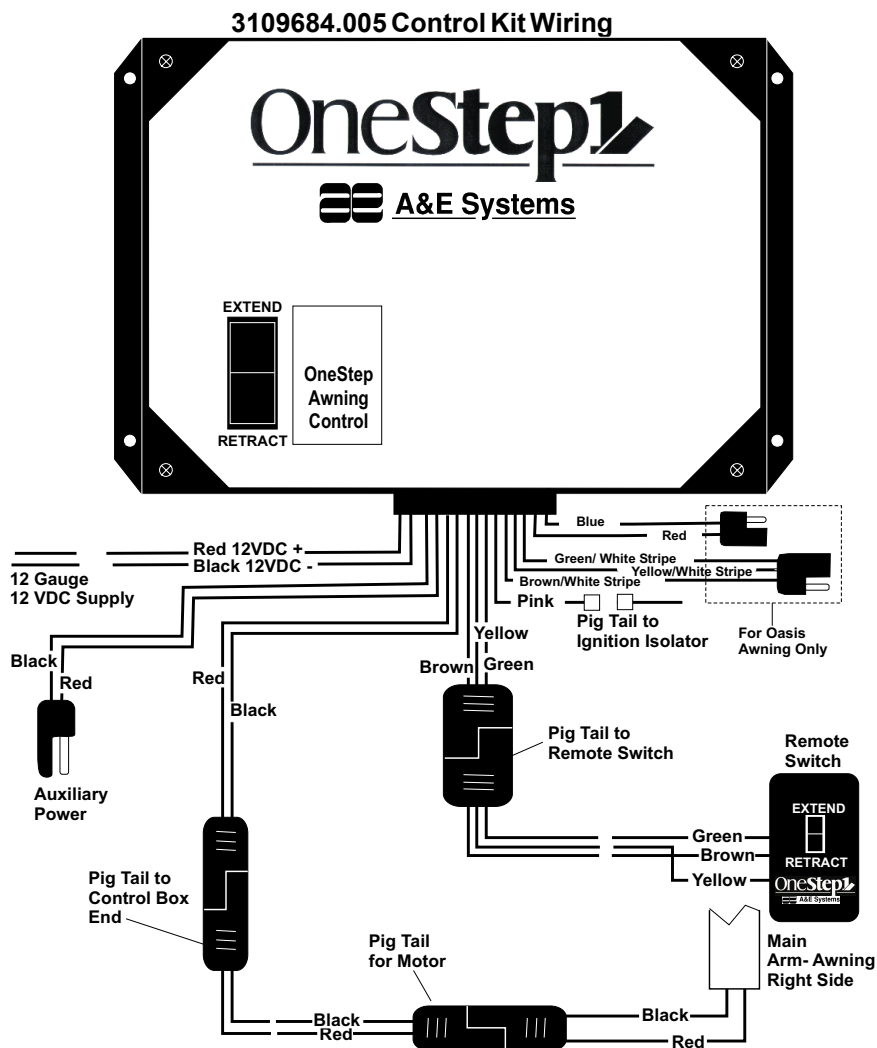
5. Low Voltage Connection

- A. Run two (2) wires from the control box to the 12VDC supply source. It is recommended that these wires be (Red+ and Black-) 12 gauge wires. This should be on a separate 15 amp circuit. Connect the Red and Black wires from the control box to the 12VDC supply wires using butt connectors.
- B. The additional 2 wire pigtail w/protective cap is for auxiliary power use only. No connection is necessary for regular use.

6. Auto Lock Connection

- A. Run a wire (installer supplied) from the Ignition Isolator (+12VDC) of vehicle to the Ignition Isolator

FIG. 7



(Pink) wire of control box. Connect wires using supplier pigtailed. See FIG. 7.

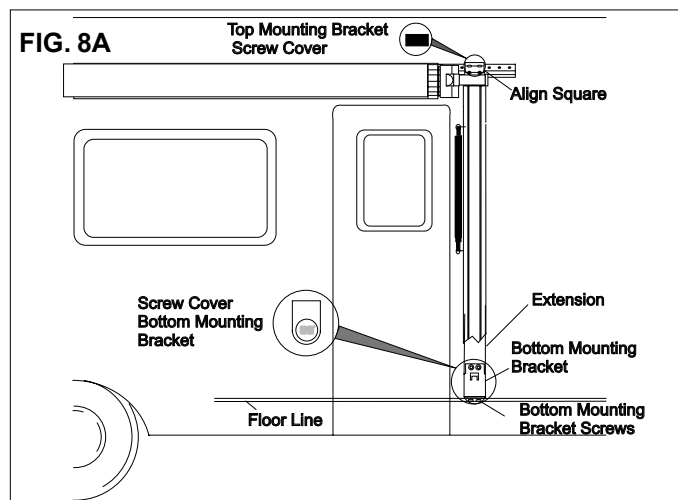
7. Bottom Mounting Bracket and Back Channel Installation.

A. 760100(X).400 Hardware Bottom Mounting Bracket Installation.

1. Locate the floor line of the application. This is the area needed to mount the bottom mounting brackets for maximum strength. Usually this is located just at or above the lower trim line. Place the extension inside the arm assembly and adjust as needed so the mounting holes in the bracket are in line with the middle of the floor line. When the vertical location is established, the arms should be squared with the vehicle and each other. A door or window frame can be used to measure from. When squared, mark the hole locations and pre-drill holes using a 3/16" drill bit. Move the bracket into place and secure with two #14 x 2" hex head screws.

Important: Structural backing is required where mounting screws will be installed through sidewalls for securing bottom mounting brackets.

2. Seal where screws enter coach with clear silicon sealant. Repeat the procedure for the opposite end. Snap screw cover in position. See FIG. 8A.
3. Securing Extensions
 - a. To secure the extension, first locate the holes on each side of the back channels. Use two (2) #10 x 1/2" self drilling screws to secure the extension to back channel. Drive screws through hole in the back channel and into the extension. Repeat this procedure on the opposite end. See FIG. 8A.

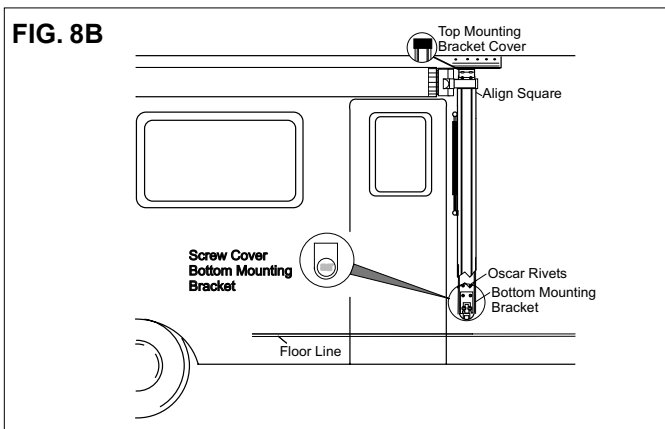


B. 760111(X).400 Hardware Back Channel Installation

1. Remove bottom mounting bracket from inside back channel if installed.
2. 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. 8B.

3. Drill two (2) 3/16" holes through the out side wall using the holes in the bottom of back channel as a guide.

FIG. 8B



4. 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.

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

5. Seal where the oscar rivets enter the vehicle with clear silicon sealant.
6. Slide bottom mounting bracket back into position. While holding bottom bracket in position drive two (2) #10 x 1/2" self drilling screw through hole in back channel and into bracket.

8. 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 or fabric roller cover by driving a #6 x 1/2" Tek screw through the rail and into the fabric rope. See FIG. 9A & 9B for screw location. Repeat at opposite end. Snap top & bottom screw covers in position. See FIG. 8A and 8B. The installation is now complete and ready for use.

FIG. 9A

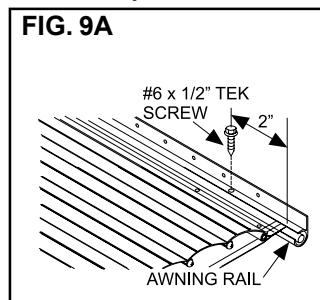
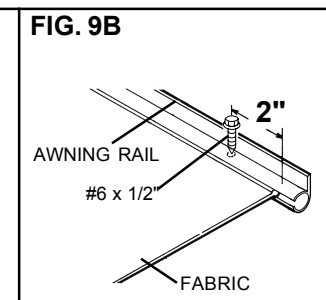


FIG. 9B



9. 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.