



**SOLERA<sup>®</sup> CLASSIC AWNING**  
**OEM INSTALLATION MANUAL**

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## Introduction

The Solera® Classic Awning is designed for use on most recreational vehicle units and is available in a variety of sizes to fit even the largest unit.

For information on the assembly or individual components of this product, please visit:

<https://support.lci1.com/solera-classic-awning>

**NOTE:** Images used in this document are for reference only when assembling, installing and/or operating this product. Actual appearance of provided and/or purchased parts and assemblies may differ.

## Safety

Read and understand all instructions before installing or operating this product. Adhere to all safety labels.

This manual provides general instructions. Many variables can change the circumstances of the instructions, i.e. the degree of difficulty, operation and ability of the individual performing the instructions. This manual cannot begin to plot out instructions for every possibility, but provides the general instructions, as necessary, for effectively interfacing with the device, product or system. Failure to correctly follow the provided instructions may result in death, serious personal injury, severe product and/or property damage, including voiding of the Lippert limited warranty.

### **WARNING**

The “WARNING” symbol above is a sign that a procedure has a safety risk involved and may cause death or serious personal injury if not performed safely and within the parameters set forth in this manual.

### **WARNING**

**Moving parts can pinch, crush or cut. Keep clear and use caution.**

### **CAUTION**

**Failure to follow the instructions provided in this manual may result in death, serious injury, unit damage, or voiding of the component warranty**

## Preparation

### ⚠️ WARNING

Removing these items prematurely may cause personal injury or property damage.

Do **NOT** remove the following items until instructed:

1. Tape securing the fabric.
2. Cotter pins in the spring assemblies.

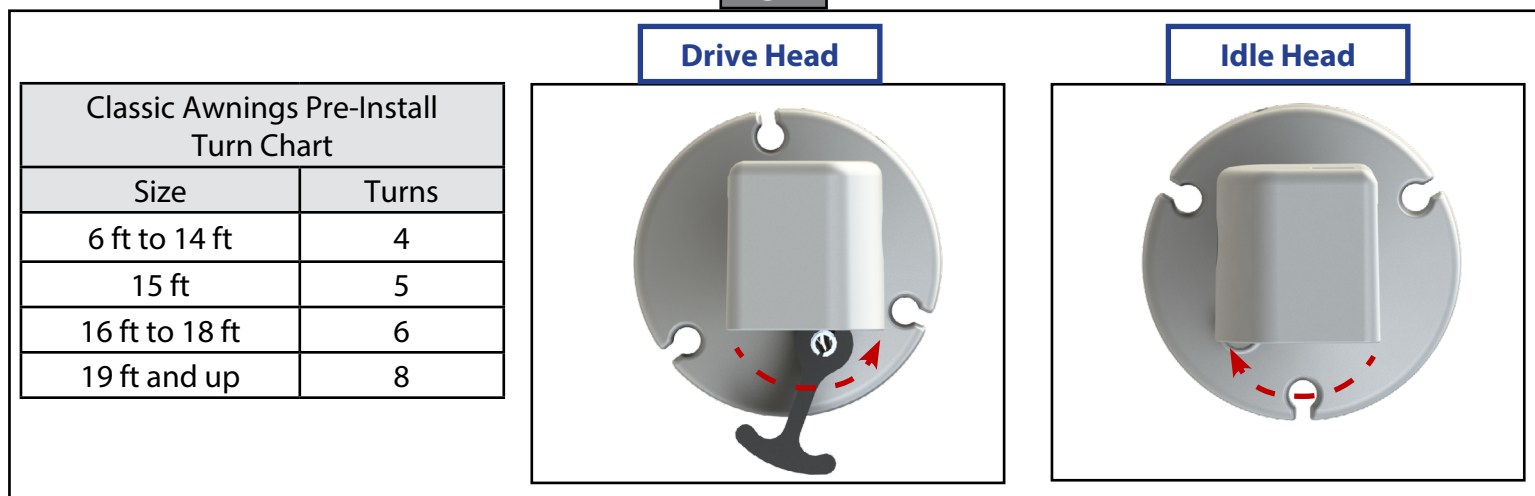
**NOTE:** This manual will refer to the “drive side” and “idler side” throughout for various instructions. The “drive side” is the right hand side of the awning when facing the awning from the exterior of the unit. The “idler side” is the left hand side of the awning when facing the awning from the exterior of the unit.

Solera® Classic Awning drive and idler heads are preloaded with tension and secured with cotter pins from the factory. If the cotter pins have been removed or otherwise lost, and tension needs to be added to the heads, use the turn chart (Fig. 1) to add the correct number of turns to the awning heads.

- A. Turn the drive head counter-clockwise the correct number of turns.
- B. Turn the idler head clockwise the correct number of turns.

**NOTE:** If awning is on a work surface, base the direction of the turns (clockwise or counterclockwise) on the orientation of the awning assembly on the unit.

Fig. 1



## Resources Required

- 1 to 3 people
- Cordless or electric drill or screw gun
- Appropriate drive bits
- Screwdriver
- Ratchet
- 7/16" socket
- 1/2" socket
- 1/2" wrench
- 3/16" drill bit
- Non-permanent method of marking
- Silicone sealant or butyl tape
- Silicone lubricant
- 1/4" x 3" lag screws or the equivalent (not provided)

## Installation

**NOTE:** All screws supporting the awning assembly **MUST** have a backer within the structure of the wall of the unit. Refer to the unit manufacturer for proper location.

**NOTE:** Awning rail not included but is required for installation and is ordered separately from Lippert.

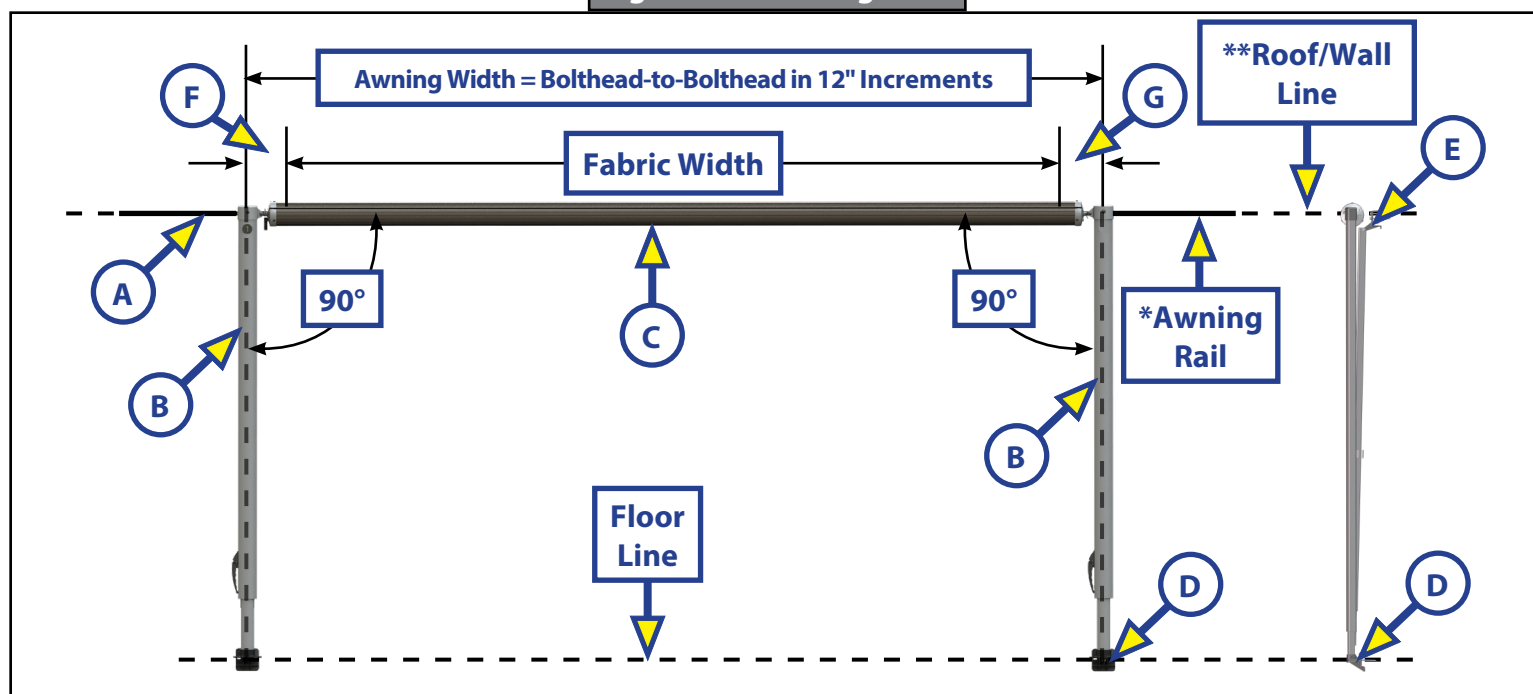
**NOTE:** If installing an awning rail from a supplier other than Lippert, consult the manufacturer's fastener recommendations for awning rail. Follow the instructions below for properly orienting and locating the awning rail on the unit.

### Installing the Awning Rail

1. Position the awning rail(\*) along the line where roof and wall(\*\*) meet, or a minimum of 4" above doors or windows.
2. After determining the awning rail's proper location, mark its position with a non-permanent method of marking.
3. Seal the back of the awning rail, then align the awning rail on the wall and secure with #10 x 3/4" screws, using all fastener holes.

**NOTE:** The awning rail must be level and parallel with the floor line of the unit (Fig. 2).

Fig. 2- Front Facing View



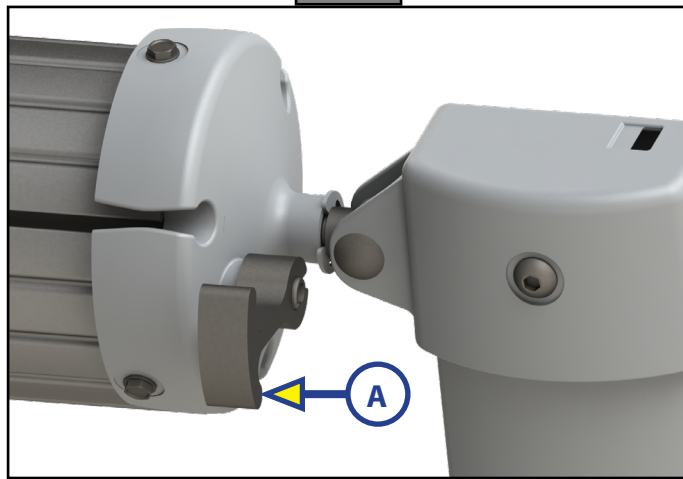
Awning Assembly Components	
Callout	Description
A	Awning Rail
B	Support Arm
C	Roll Tube Assembly
D	Lower Mounting Bracket
E	Upper Mounting Bracket
F	Approximately 5" from Center Line to Fabric
G	Approximately 5" from Center Line to Fabric

## Assembling the Awning

1. On a flat surface, carefully lay out the support arm assemblies and roll tube assembly. The cam lock (Fig. 3A) **MUST** be on the right end of the roll tube when facing the unit.

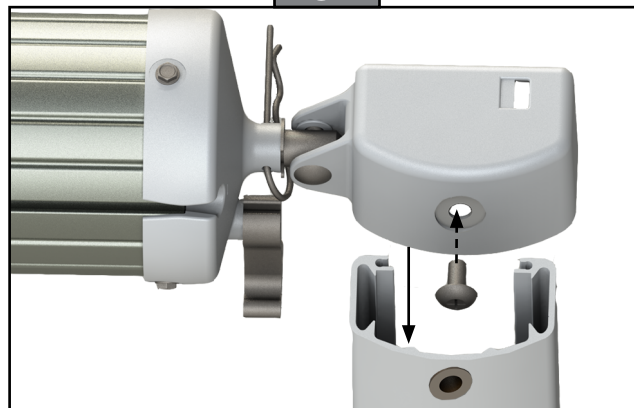
**NOTE:** Take care not to set the awning on any surface that may damage the assembly or fabric.

Fig. 3



2. Slide the left support arm assembly into the idler head assembly of the roll tube. Align the holes and secure using one  $\frac{1}{4}$ -20 x  $\frac{1}{2}$ " Phillips drive screw (Fig. 4).
3. Repeat step 2 for the left support arm assembly.

Fig. 4

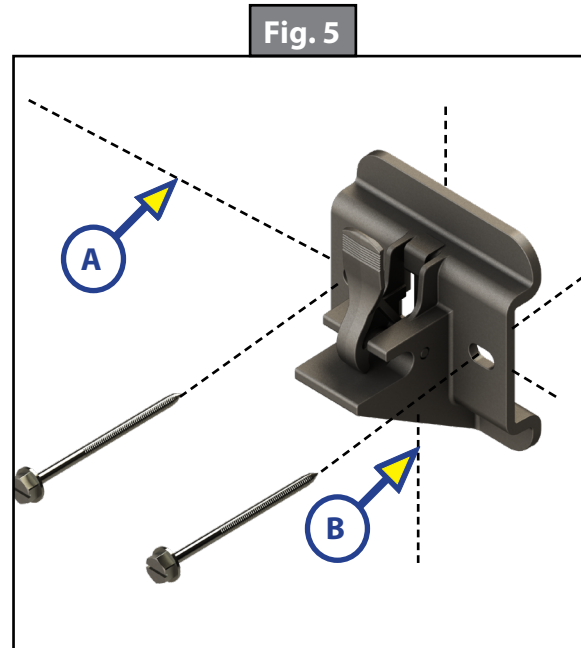


4. Measure and confirm the width of the awning. The distance is measured from centerline of support arm assembly to centerline of support arm assembly (Fig. 2).

## Mounting the Bottom Mounting Brackets

1. On the awning rail, mark position of the centerlines of support arm assemblies. Ensure that support arm assemblies will not interfere with any lights, vents or the operation of any windows or doors.
2. Using a non-permanent method of marking, mark a perpendicular line from the awning rail down to the floor line. This is the centerline of the support arm assembly (Fig. 2). Do this for both assemblies.

3. Position the bottom bracket with the fastening points at the floor line (Fig. 5A).
  - A. Center the bracket on the centerline mark of the support arm assembly (Fig. 5B).
  - B. Mark the hole locations, then using a  $\frac{3}{16}$ " drill bit, pre-drill both holes.
  - C. Apply a liberal amount of sealant over the holes.
  - D. Attach the bracket using the  $\frac{1}{4}$ " x 3" lag screws or equivalent (not provided) (Fig. 5).

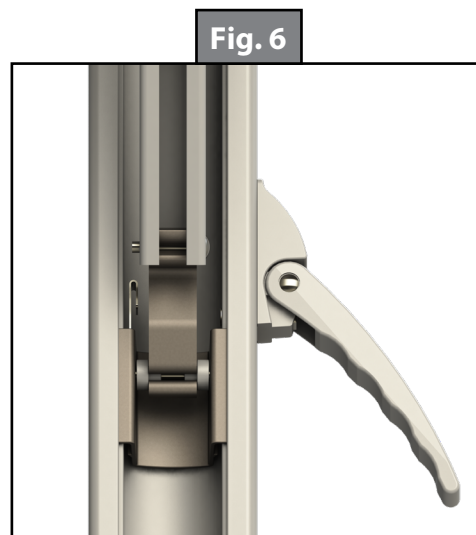


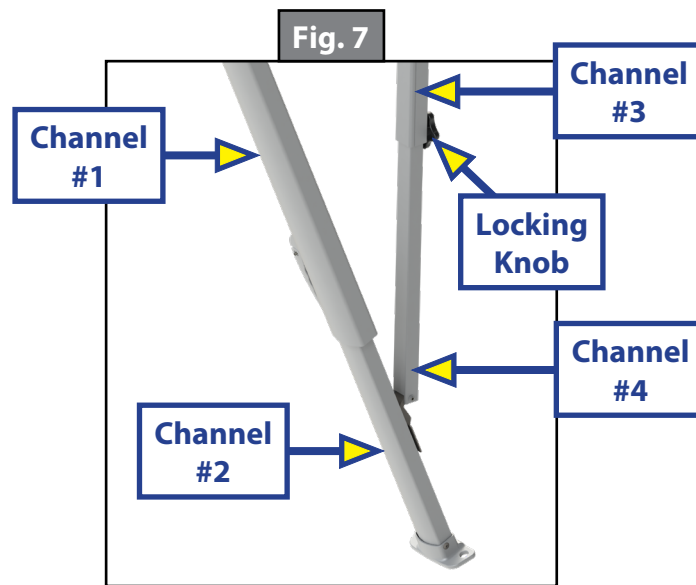
**NOTE:** All screws supporting the awning assembly **MUST** have a backer within the structure of the wall of the unit. Refer to the unit manufacturer for proper location.

4. Repeat step 3 for the other end of the awning.

## Mounting the Awning

1. Measure the distance from the awning rail channel to the lower mounting bracket fastening point.
2. Compare the distance from the center of the roll tube and the support arm assembly foot to the measurement in Step 1 and adjust the support arm assembly to make both distances equal.
  - A. Open the support arm assembly handle (Fig. 6) and slide the outer arm lower channel (Fig. 7, channel #2) up or down to desired height.
  - B. Close the handle and slide the outer arm lower channel (Fig. 7, channel #2) until the locking pin clicks into the nearest positioning hole.



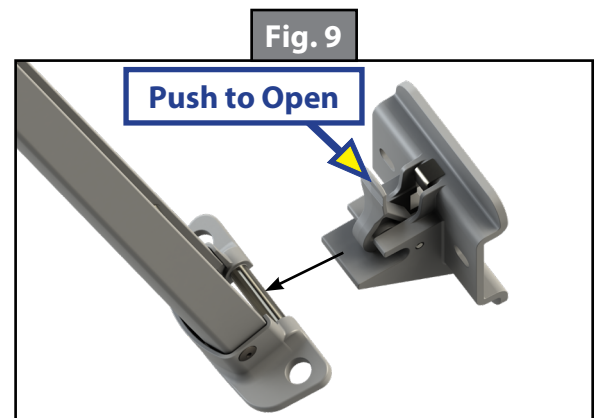
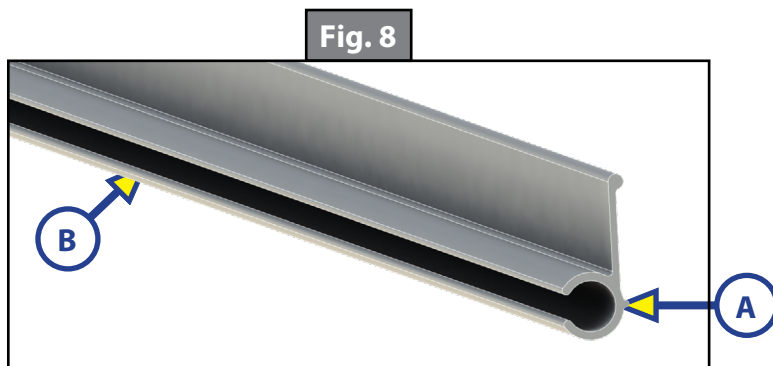


3. Use a screwdriver to spread open either end of the awning rail on the installation side (Fig. 8A).
4. To protect the fabric from damage during installation, file any sharp edges or burrs from the awning rail channel.
5. Spray the inside of the awning rail channel (Fig. 8B) with silicone lubricant.
6. Remove the packaging from the fabric. Unroll a small portion of fabric, but not more than one rotation of the fabric.

**NOTE:** The next step will require three people: One to feed the polycord into the awning rail channel; two to walk the support arm assemblies along the awning rail while the fabric slides into position.

7. Slide the polycord into the awning rail channel and walk the support arm assemblies and fabric down the awning rail channel until the support arm assemblies are in line with the centerline marks made previously.
8. Lift the support arm assembly up and secure the feet into the previously installed bottom mounting brackets by pressing the lever and opening the latch (Fig. 9).
9. Slide the mount/rafter arm upper channel (Fig. 7, channel #3) up or down as needed over the mount arm lower channel (Fig. 7, channel #4).

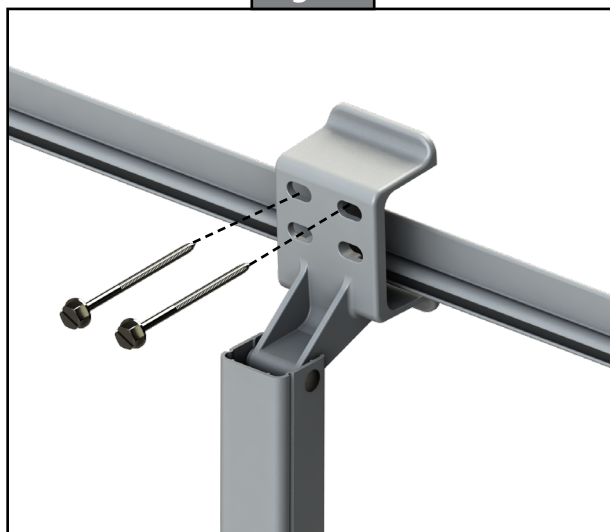
**NOTE:** If adjustments need made to set the desired height for the upper mounting bracket, loosen the black locking knob on the mount/rafter arm upper channel (Fig. 7, channel #3).



10. Secure the upper bracket.
11. Center the upper mounting brackets on the support arm assembly centerline marked previously and arrange the upper mounting brackets to straddle the awning rail (Fig. 10). Tighten the black locking knob on the mount/rafter arm upper channel (Fig. 7, channel #3).
12. Once the upper bracket is situated, mark and pre-drill two  $\frac{3}{16}$ " holes through the awning rail or unit. Apply a liberal amount of sealant over the holes and attach the upper mounting bracket using the  $\frac{1}{4}$ " x 3" lag screws or equivalent (not provided) (Fig. 10).

**NOTE:** All screws supporting the awning assembly **MUST** have a backer within the structure of the wall of the unit. Refer to the unit manufacturer for proper location. It is acceptable that the lag screws go through the flat portion of the awning rail.

Fig. 10



13. Repeat steps 9-11 for the other support arm assembly.
14. Place cam lock into the roll-out position. Firmly grasp the roll tube and remove the safety cotter pin from each end of the roll tube.

**⚠ WARNING**

**Use care when removing the cotter pins. The cotter pins are holding the pre-wound tension of the spring. Failure to securely hold the roll tube may allow the roll tube to rapidly roll up and cause personal injury or damage.**

**⚠ CAUTION**

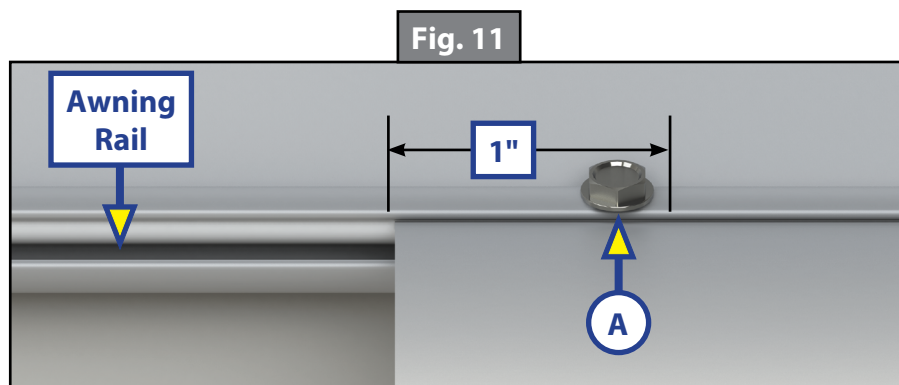
**Failure to maintain control of the roll tube, fabric and support arm assemblies may result in serious personal injury or property damage.**

15. Firmly grasp and hold the pull strap. While maintaining control of the awning with the pull strap, place cam lock into the roll-in position and allow the fabric to slowly roll up.



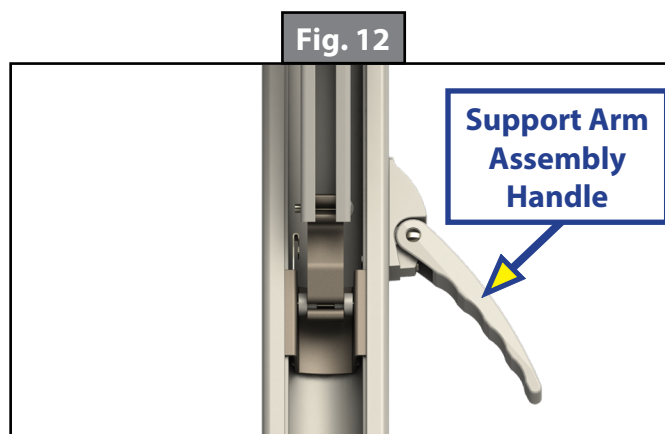
## Securing the Fabric

1. Roll the awning in and out several times to ensure that the fabric is square on the roll tube.
2. Secure the fabric in the awning rail no more than 1" inside the edge of the fabric on both ends using a #6 x 1/2" hex. head screw (Fig. 11A). Install the screw down through the awning rail into the fabric and the polycord (Fig. 11).



## Installing the Stop Bolt

1. Make sure the awning is completely retracted.
2. Make sure the roll tube centerline is level with or slightly higher than the awning rail centerline (Fig. 2). The bottom of the roll tube **MUST** not be higher than the awning rail.
3. Adjust support arm assemblies if necessary.
  - A. Open the outer arm handle (Fig. 12) and slide the outer arm upper channel (Fig. 7, channel #1) up or down to the desired height.

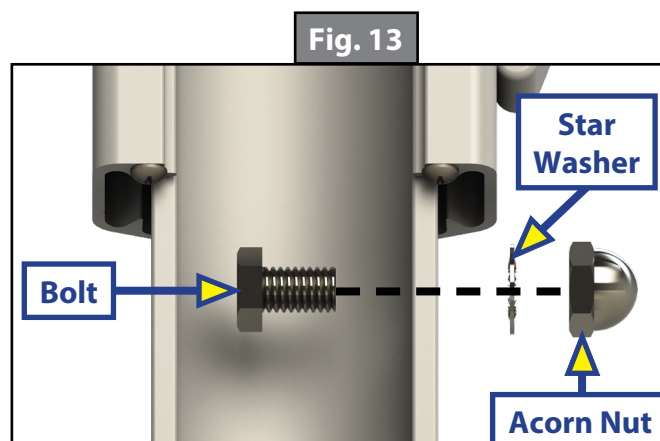


- B. Close the handle and slide the outer arm upper channel (Fig. 7, channel #1) upward on the outer arm lower channel (Fig. 7, channel #2) until the locking pin clicks into the nearest positioning hole.
4. With a non-permanent method of marking, mark the position of the stop hole that is directly below the outer arm upper channel (Fig. 7, channel #1).

5. From the inside of the outer arm lower channel (Fig. 7, channel #2) insert a 5/16" bolt through the hole. Secure with a star washer and a 5/16" acorn nut using a 1/2" socket and wrench (Fig. 13).

**NOTE:** It may be necessary to lift the outer arm upper channel (Fig. 7, channel #1) to tighten the acorn nut.

6. Repeat steps 3-5 for the other support arm.



## Operation

### ⚠ CAUTION

During incidents of high wind, heavy rain or extended time away from the unit, it is advisable to retract the awning completely to prevent damage to the awning and the RV.

### Closing the Awning

1. The outer arm (Fig.15E) is folded on top of the support arm (Fig. 15A).
2. The travel lock body (Fig. 14B) swings on top of the travel lock base (Fig. 14D) and snaps into place.
3. The travel lock body arm (Fig. 14C) slides behind the support arm to hold the arms securely together.

### Extending the Awning

1. Release the travel locks.
  - A. Press slightly upward on the tab (Fig.1A) on the travel lock base latch (Fig. 14D) to release the travel lock body (Fig. 14B). Swing the travel lock body arm (Fig. 15C) from behind the support bracket (Fig. 15A) to release the outer arm (Fig. 15E).
2. Loosen the black locking knobs (Fig. 15C) on the support arms (Fig. 15A).

Fig. 14

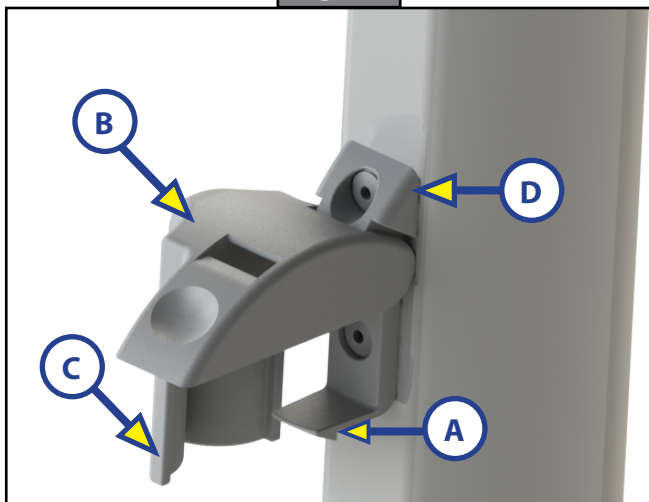
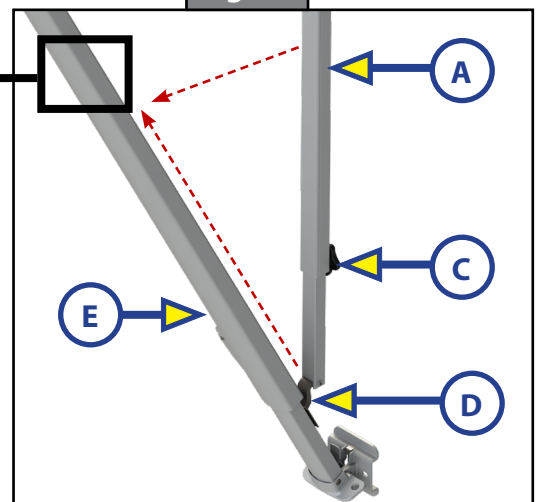
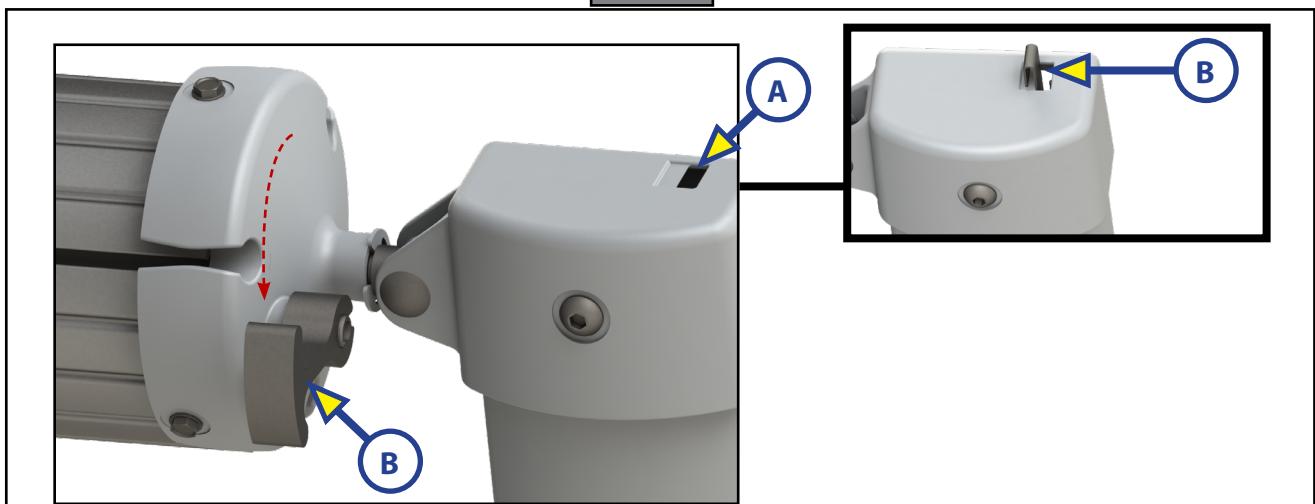


Fig. 15



3. Flip the cam lock (Fig. 16B) down to the roll out position.
4. Place pull rod into hook strap (Fig.18).
5. Using the pull rod, start pulling the awning outward until full extension is complete.

Fig. 16



- Slide the bottom of the support arms (Fig. 15D) all the way to the top of the outer arm (Fig. 15E) and make sure they lock into place at the top of the outer arm (Fig. 16A).

**NOTE:** Once spring clip (Fig. 16B) appears in the slot (Fig. 16A) the arm is locked.

- Pull the two arms away from each other until the fabric is taut and then tighten the knob.
- Raise the outer arms to the desired height by releasing the support arm assembly handle (Fig. 17A) and allow the outer arm upper channel (Fig. 18B) to slide on the outer arm lower channel (Fig. 18C). After reaching the desired height, let go of the support arm assembly handle to lock the arm at this position.
- Slide the pull strap (Fig. 17) to one end or the other and wrap it around the arm to secure it out of the way.

Fig. 17

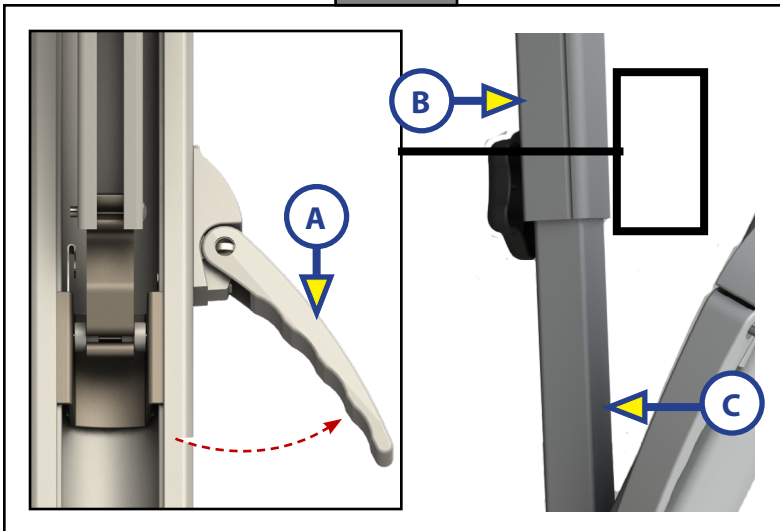
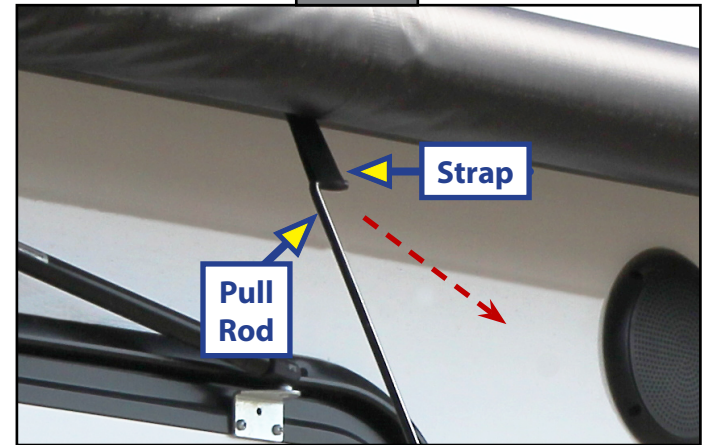


Fig. 18



### Retracting the Awning

- Unwrap the awning pull strap and return it to the center of the awning roll tube.
- Lower the outer arms by releasing the outer arm assembly handle (Fig. 17A) and allow the outer arm upper channel (Fig. 17B) to slide down the outer arm lower channel (Fig. 17C) until it rests on the acorn nut. Repeat the procedure for the other end.
- Loosen the black locking knob (Fig. 22C) and unlock the support arm by releasing the spring clip (Fig. 19A) at the top of the outer arm head assembly. Allow the support arm to slide all the way down toward the bottom of the outer arm. Repeat this for both ends.
- Take a firm hold on the awning strap and release the tension on the springs by flipping the cam lock (Fig. 20A) up to the roll in position.

Fig. 19

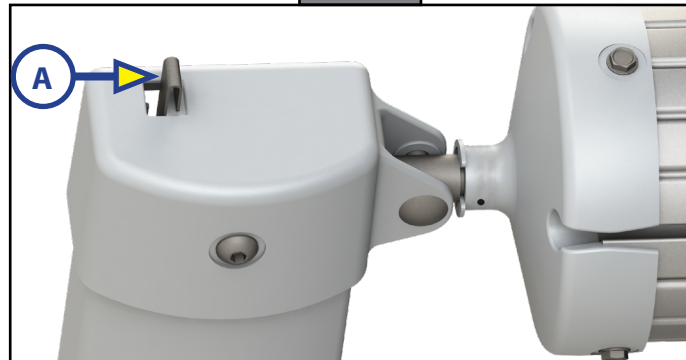
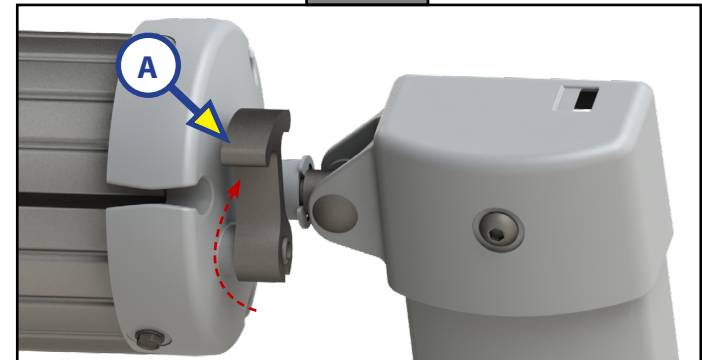
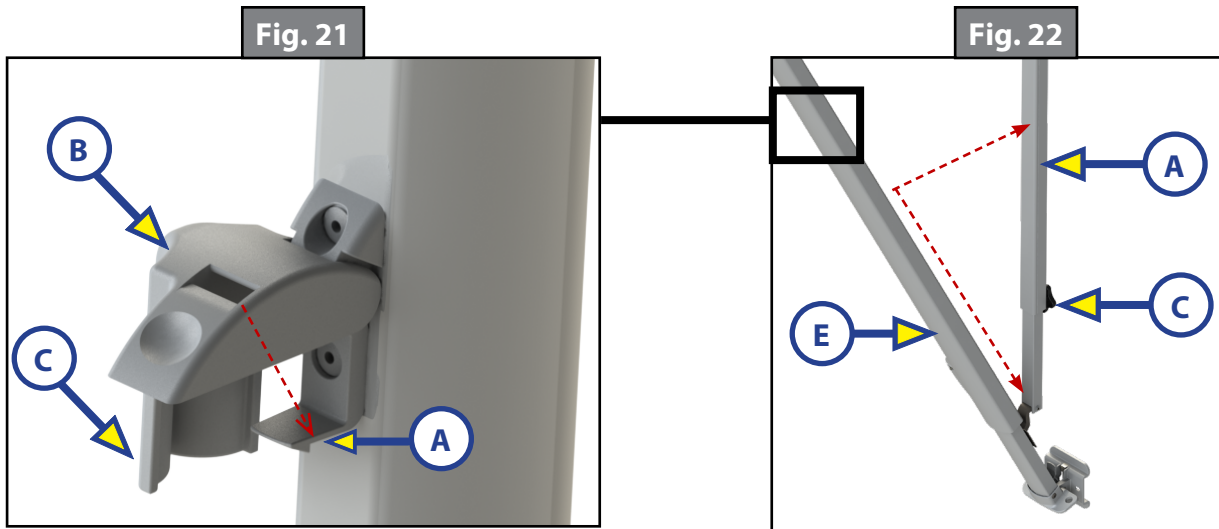


Fig. 20



5. Walk the awning in toward the unit. Hook the pull rod into the pull strap before the strap gets too high. Using the pull rod, walk the awning to the fully-closed position. Remove the hook from the pull strap and store in a secure location.
6. Secure the travel locks.
  - A. Lock the arms for travel mode by compressing the outer arm (Fig. 22E) and support arm (Fig. 22A) together. Swing the travel lock body (Fig. 21B) down onto the travel lock base (Fig. 21A). The travel lock body will press onto and latch close on the travel lock base. The travel lock body's arm (Fig. 21C) will wrap behind the arms for secure travel mode.
7. Tighten the black locking knob (Fig. 22C).







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