



LIPPERT
COMPONENTS®



Solera® Classic Awning Installation and Owner's Manual (For Aftermarket Applications)

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Introduction

The rugged spring-loaded Solera® Classic extends and retracts in just a few easy steps. Simply release the travel locks on each arm, loosen the rafter knobs, use the pull cane to unlock the roller, then hook the pull strap and walk it out to unroll the awning. Once extended, set the tension, tighten rafter knobs and raise the awning arms to whatever pitch you want for shade and water runoff. You can also detach the arms from the bottom bracket and rotate them to a vertical “carport” position. This carport position makes it easy to attach Solera accessories like the Screen Room and Solera Family Room™

Quick Facts

- Standard 8' projection
- Classic brackets align perfectly with bracket holes of most brands of manual awnings
- Arms detach from bottom bracket and easily swing to “carport” position

Safety

NOTE: 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 “Classic Awnings Pre-install Turn Chart” to add the correct number of turns to the awning heads.

⚠ WARNING

FAILURE TO FOLLOW THE INSTRUCTIONS PROVIDED IN THIS MANUAL MAY RESULT IN DEATH, SERIOUS INJURY, PROPERTY DAMAGE, OR VOIDING OF THE COMPONENT WARRANTY.

Additional Information Resources

Additional information about this product can be obtained from www.lci1.com/support or by downloading the free MyLCI app. The app is available on iTunes® for iPhone® and iPad® and also on Google Play™ for Android™ users.

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Classic Awnings Pre-Install Turn Chart

Roll Tube Width	Turns
6' to 10'	4
11' to 14'	5
15' to 18'	6
19' and up	8

Preparation

⚠ CAUTION

MOVING PARTS CAN PINCH, CRUSH OR CUT. KEEP CLEAR AND USE CAUTION.

⚠ WARNING

REMOVING FABRIC TAPE OR SPRING ASSEMBLY COTTER PINS PREMATURELY COULD CAUSE SERIOUS INJURY OR PROPERTY DAMAGE.

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

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

Resources Required.

- 1 to 3 People
- Cordless or Electric Drill or Screw Gun
- Appropriate Drive Bits, including $\frac{3}{8}$ " and $\frac{1}{2}$ "
- Screwdriver
- Ratchet
- $\frac{7}{16}$ " Socket
- $\frac{1}{2}$ " Socket
- $\frac{1}{2}$ " Wrench
- $\frac{3}{16}$ " Drill Bit
- Non-Permanent Method of Marking
- Silicone Sealant or Butyl Tape
- Silicone Lubricant
- #10 x $\frac{3}{4}$ " Self-tapping Screws
- $\frac{1}{4}$ " - 20 x $\frac{1}{2}$ " Phillips Head Screws
- $\frac{1}{4}$ " x 2 $\frac{1}{2}$ " Lag Screws

Installation

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

Awning Rail Installation

NOTE: Awning rail not included.

If necessary, install awning rail as follows:

1. Position the awning rail along the line where the roof and wall meet.

NOTE: The awning rail **MUST** be level and parallel with the floor line of the unit (**Fig.1**).

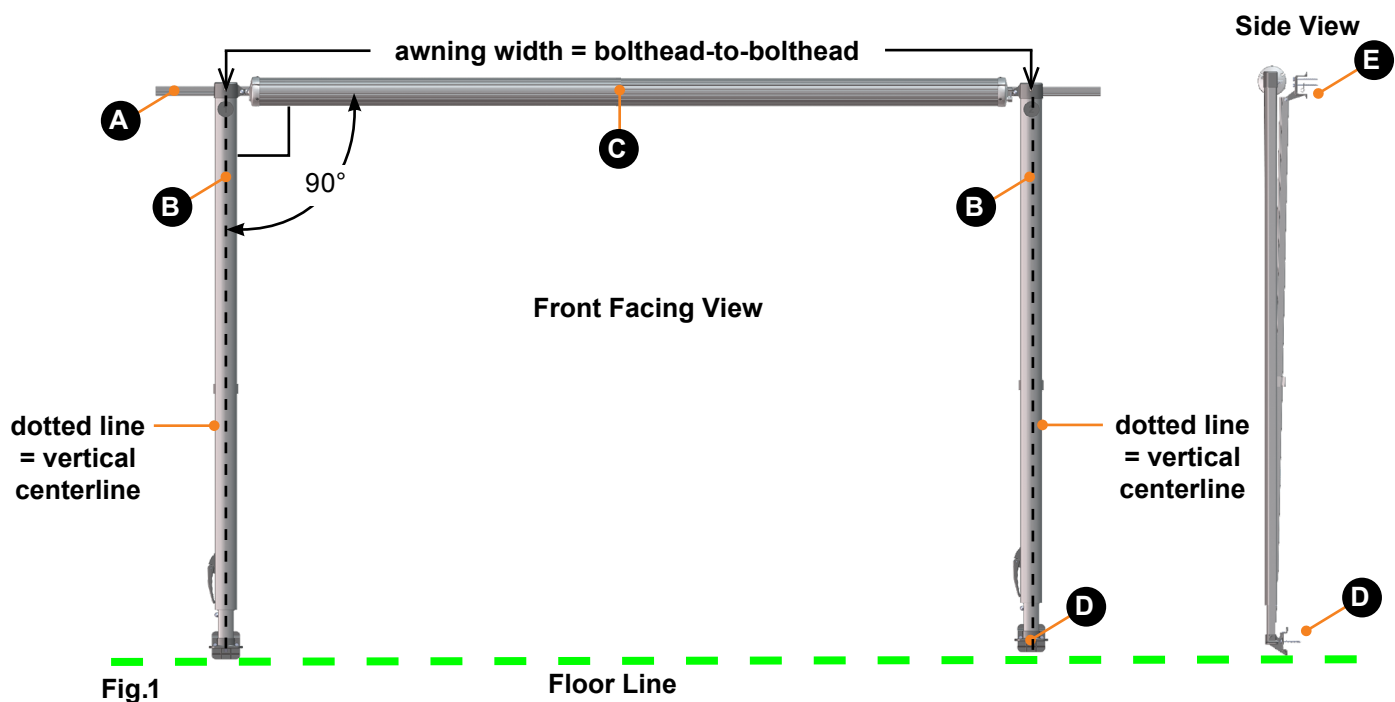
2. After determining the awning rail's proper location, mark its position with a non-permanent method of marking.

3. Seal the back of the awning rail with silicone sealant or Butyl tape.

4. Align the awning rail on the wall and secure with #10 x 3/4" screws, using all fastener holes.

Awning Rail Assembly Parts

Letter	Description
A	Awning Rail
B	Support Arm Assembly
C	Roll Tube Assembly
D	Lower Mounting Bracket
E	Upper Mounting Bracket



Assembling the Awning

NOTE: The head assemblies (**Fig.2A**) and support arm assemblies (**Fig.2B**) are numbered to ensure proper assembly. Match the proper support arm assembly to the correct head assembly.

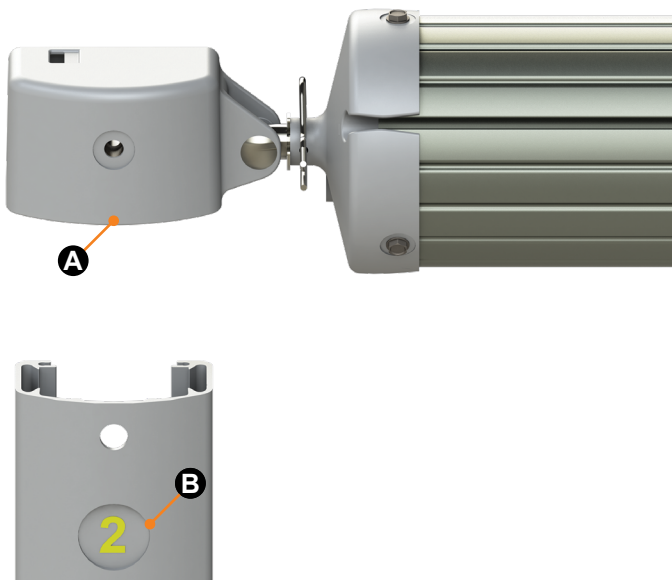


Fig.2

NOTE: Do not set the awning on any surface that may damage the assembly or fabric.

1. On a flat surface, carefully lay out the support arm assemblies and roll tube assembly.

NOTE: The cam lock **MUST** be on the right side of the roll tube when facing the unit.

2. Slide the left support arm assembly into the idler head assembly of the roll tube. Align the holes and secure using one (1) 1/4"-20 x 1/2" Phillips head drive screw (**Fig.3**).

3. Repeat step 2 for the right support arm assembly.

4. Measure and confirm the width of the awning. The distance is measured from bolthead to bolthead (**Fig.1**).

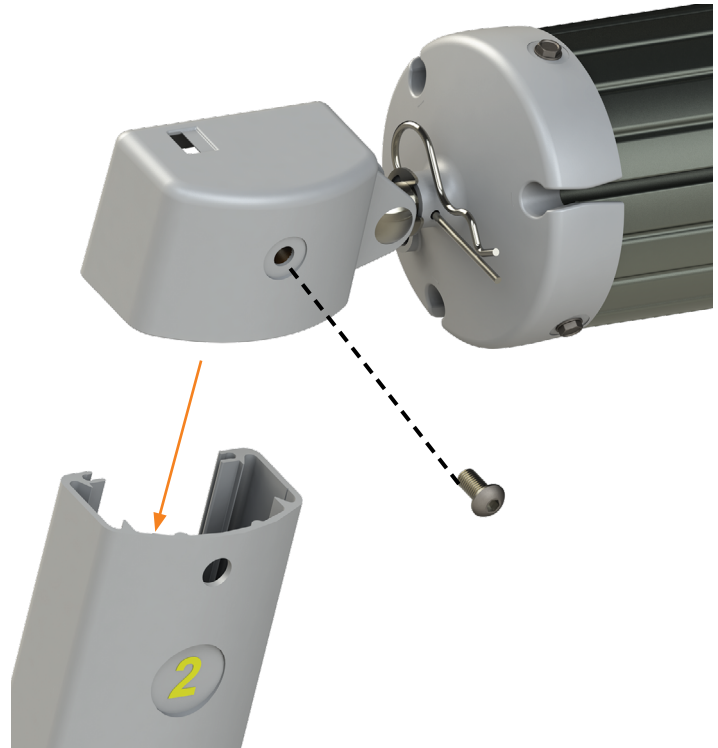


Fig.3

Installing the Bottom Mounting Brackets

1. On the awning rail, mark the position of the support arm assemblies using the bolthead-to-bolthead measurement. Ensure that the 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 mark on the awning rail down to the floor line. This is the centerline of the support arm assembly (**Fig.1**). Do this for both support arm assemblies.

3. Position the bottom bracket with the fastening points at the floor line (**Fig.4**).

A. Center the bracket on the centerline mark of the support arm assembly (**Fig.4**).

B. Mark the hole locations, then using a 3/16" drill bit, pre-drill both holes.

C. Apply a liberal amount of sealant over the holes.

D. Attach the bracket using the provided 1/4" x 2 1/2" lag screws (**Fig.4**).

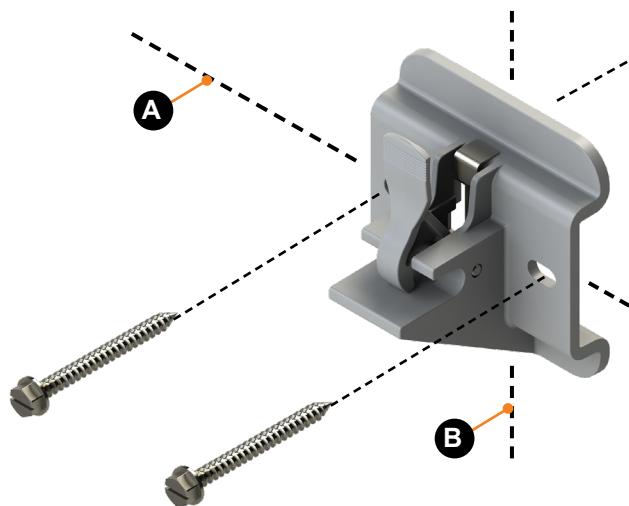


Fig.4

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

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

Installing 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.5**) and slide the outer arm lower channel (**Fig. 6, Channel #2**) up or down to desired height.

B. Close the handle and slide the outer arm lower channel (**Fig. 6, Channel #2**) until the locking pin clicks into the nearest positioning hole.

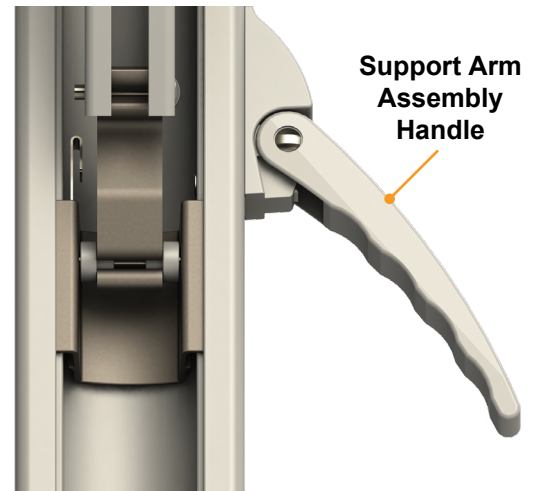


Fig.5

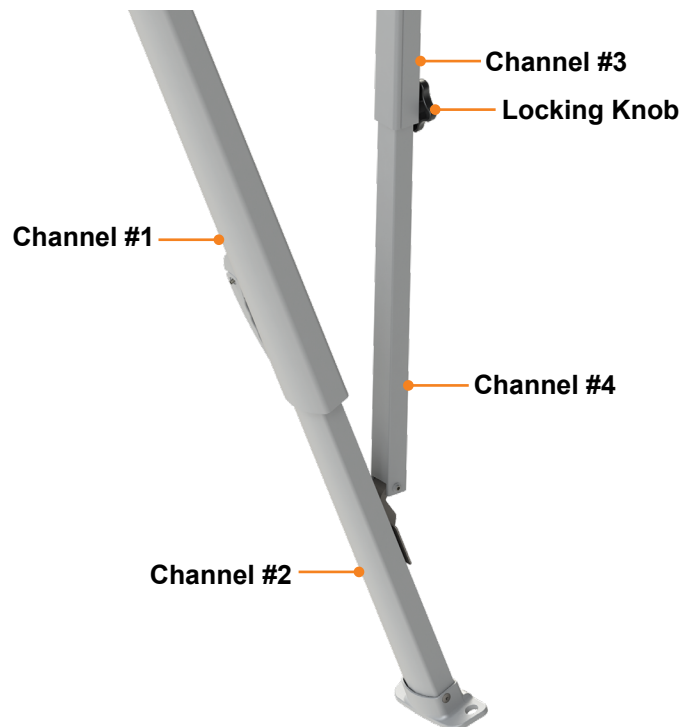


Fig.6

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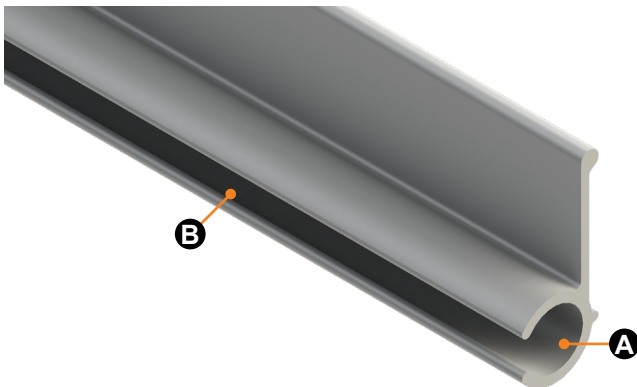


Fig.7

3. Use a screwdriver to spread open either end of the awning rail on the installation side (**Fig.7A**).

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.7B**) with silicone lubricant.

6. Remove the packaging from the fabric. Unroll a small portion of fabric, but not more than one rotation of 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 previously made centerline marks.

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.8**).

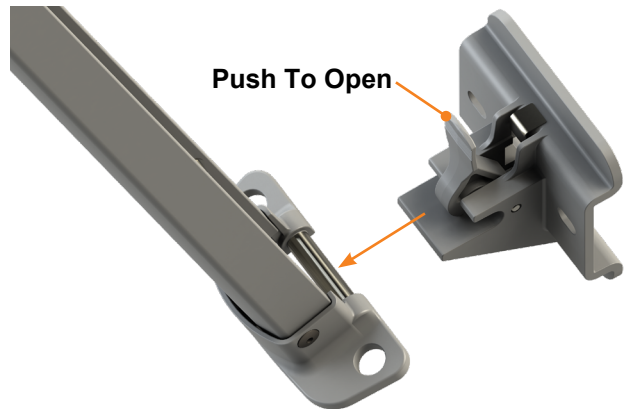


Fig.8

9. Center the upper mounting brackets on the previously marked centerline of the support arm assembly centerline.

A. Arrange the upper mounting brackets to straddle the awning rail.

B. Tighten the black locking knob on the mount arm upper channel (**Fig.6, Channel #3**).

NOTE: If adjustments are needed so the upper mounting brackets straddle the awning rail, loosen the black locking knob on the mounting arm's upper channel (**Fig.6, Channel #3**). Slide the mounting arm upper channel (**Fig.6, Channel #3**) up or down as needed over the mounting arm's lower channel (**Fig.6, Channel #4**).

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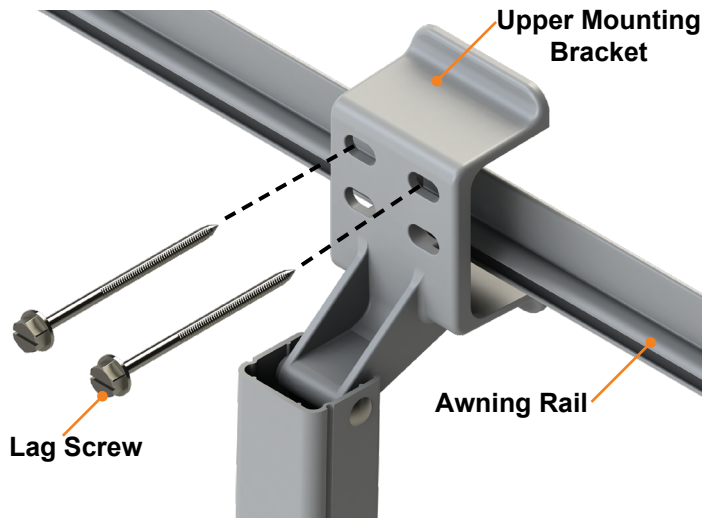


Fig.9

10. Once the upper bracket is placed, mark and pre-drill two $\frac{3}{16}$ " holes through the awning rail or unit.

A. Apply a liberal amount of silicone sealant over the holes.

B. Attach the upper mounting bracket using the provided $\frac{1}{4}$ " x 3" lag screws provided (**Fig.9**).

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

11. Repeat step 10 for the other support arm assembly.

NOTE: Prior to completing removing cotter pins in step 12, make sure the cam lock is on the roll out position.

12. Firmly grasp the roll tube and head and remove the safety cotter pin from each end of the roll tube. Keeping a firm grasp on the roll tube and head, place the cam lock in the roll up position.

13. Allow the fabric to slowly roll up.

⚠ 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.

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 $\frac{1}{2}$ " hex. head screw. Install the screw down through the awning rail into the fabric and the polycord (**Fig.10**).

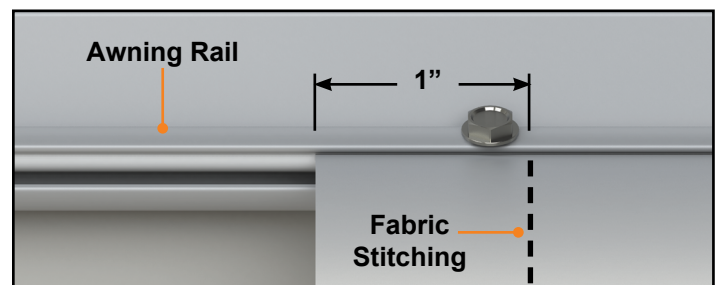


Fig.10

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.1**). 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.11**) and slide the outer arm upper channel (**Fig.6, Channel #1**) up or down to the desired height.
 - B. Close the handle and slide the outer arm upper channel (**Fig.6, Channel #1**) on the outer arm lower channel (**Fig.6, Channel #2**) until the locking pin clicks into the nearest positioning hole.

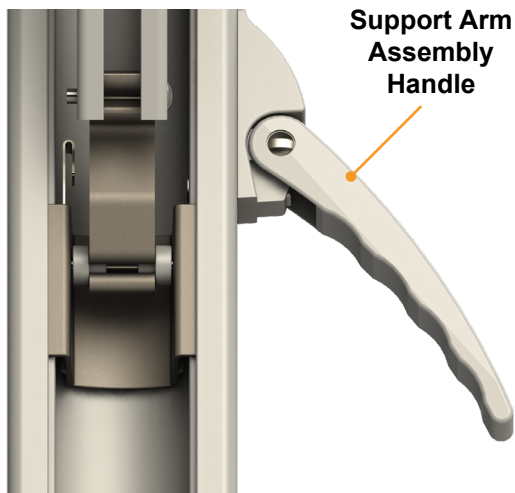


Fig.11

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.6, Channel #1**).
5. From the inside of the outer arm lower channel (**Fig.6, Channel #2**), insert a $\frac{5}{16}$ " bolt through the hole. Secure with a star washer and a $\frac{5}{16}$ " acorn nut using $\frac{1}{2}$ " socket and wrench (**Fig.12**).

NOTE: It may be necessary to lift the outer arm upper channel (**Fig.6, Channel #1**) to tighten the acorn nut.

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

Operation

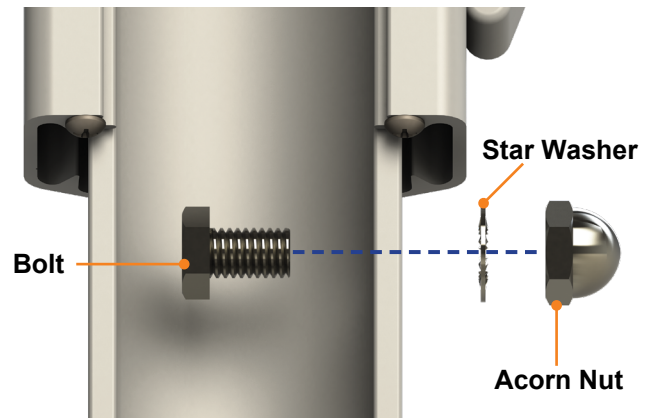


Fig.12

Extending the Awning

1. Make sure the black locking knobs on the mount/rafter arm upper channels (**Fig.6, Channel #3**) are loosened. Pinch the travel locks together to release the outer arm from the mount/rafter arm.
2. Flip cam lock down to the extend position.
3. Using the pull rod, start pulling the awning outward until full extension is complete.
4. Slide the mount/rafter arms all the way to the top of the outer arm. Make sure they lock into place.
5. Pull on the mount/rafter arm to ensure the fabric is taut, then tighten the black locking knob to lock it into place.
6. Raise the outer arms to the desired height by releasing the support arm assembly handle and allow the outer arm upper channel (**Fig.6, Channel #1**) to slide onto the outer arm lower channel (**Fig.6, Channel #1**). After the desired height is reached let go of the support arm assembly handle to lock the arm at this position.
7. Repeat steps 4-6 on the other end.
8. Slide the pull strap to one end or the other and wrap it around the arm to get it out of the way.

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Optional Carport Position

1. After the arm is fully extended, remove the outer arm from the side of the unit by releasing the lever on the lower mounting bracket (**Fig.8**).
2. Walk the awning out until the outer arm is straight up and down. Set the lower mounting bracket on the ground.
3. Make sure to use the provided stakes to secure the outer arm to the ground.

Retracting the Awning

NOTE: Do **NOT** retract the awning while in carport mode.

1. If in carport mode, do as follows:
 - A. Remove the stakes from the foot of the outer arm.
 - B. Walk the outer arm back to the unit, then secure it to the lower mounting bracket on the unit's sidewall.
 - C. Repeat steps A and B on the other end of the awning.
2. Take the awning pull strap and return it to the center of the awning roll tube.
3. Lower the roll tube by holding the outer arm and releasing the support arm assembly handle on the side. Let the outer arm upper channel (**Fig.6, Channel #1**) slide down the outer arm lower channel (**Fig.6, Channel #2**) until it rests on the acorn nut. Repeat procedure on the other end.
4. Loosen the black locking knob.
 - A. Unlock the mount/rafter arm by releasing the spring clip from the top of the head assembly.
 - B. Allow the mount/rafter arm to slide all the way down toward the bottom of the outer arm.
 - C. Repeat the procedure for both ends.
5. Take a firm hold of the awning strap and release the tension on the springs by flipping the cam lock up to the roll in position.

6. Walk the awning in toward the unit.

- A. Hook the pull rod into the pull strap before the strap gets too high.
 - B. Using the pull rod, walk the awning to the fully-closed position.
7. Lock the arms for travel mode by compressing the outer arm and mount/rafter arm together until the red tab disappears, then tighten the black locking knob.

Fabric Replacement

Fabric Removal

1. If equipped, remove the drip cap from the end of the awning rail from which the fabric will be removed.
2. Remove the two #6 x 1/2" hex head screws located on the awning rail. Set screws aside (**Fig.10**).
3. Extend the awning out completely by sliding the mount/rafter arms all the way to the top of the outer arm and make sure they lock into place and insert cotter pins (**Fig.13**).
4. Pull on the mount/rafter arm to insure the fabric is taut and tighten the black locking knob to lock it into place. As a precaution, tape the cam lock in the roll out position.
5. On the end of the awning rail the fabric will be removed from, remove the upper mounting bracket from the unit wall. Allow the mount/rafter arm to pivot out of the way.

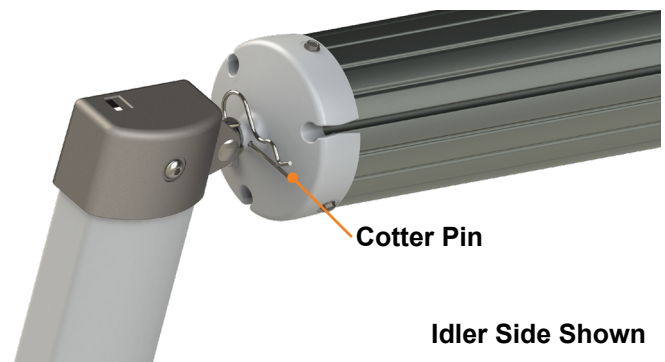


Fig.13

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6. Remove the drive head assembly and idler head assembly retaining fasteners from the outer arms to separate the components (**Fig. 14**).

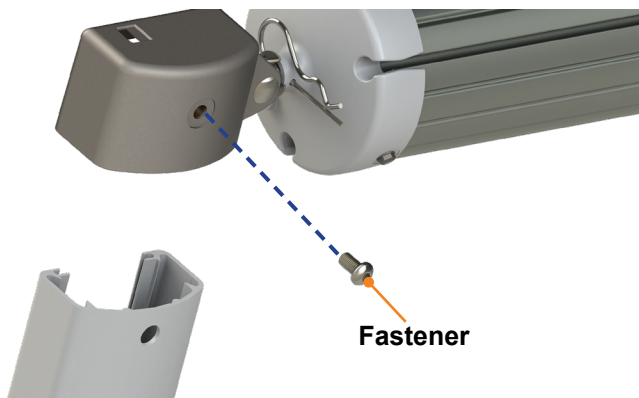


Fig.14

7. Working together, remove the roll tube assembly (which includes the drive and idler head assemblies) from the awning rail and support arms by sliding the assembly along the awning rail until clear.

⚠ CAUTION

FAILURE TO SUPPORT THE ROLL TUBE, FABRIC AND DRIVE/IDLER HEAD ASSEMBLIES DURING INSTALLATION MAY RESULT IN PERSONAL INJURY OR PROPERTY DAMAGE.

8. Place the removed assembly onto a level area.

9. Since the drive head assembly is still under tension, hold the drive head assembly securely while someone securely holds the idler head and roll tube.

10. Continuing to have the secure hold described in step 9, remove the drive head assembly cotter pin.

⚠ CAUTION

FAILURE TO MAINTAIN CONTROL OF THE ROLL TUBE, FABRIC AND DRIVE/IDLER HEADS MAY RESULT IN PERSONAL INJURY OR PROPERTY DAMAGE.

11. While one person holds the roll tube, have another person slowly rotate the drive head assembly clockwise to release tension.

12. Mark the cam lock position on the roll tube with a non-permanent marker.

13. Remove the three screws holding the drive head assembly end cap on the roll tube and set the drive head assembly aside.

14. Mark the roll tube grooves containing the polycords prior to removing the fabric from the roll tube.

15. Remove the two screws holding the fabric in place on the roll tube.

16. To remove the fabric, gently pull the roll tube from one end, while another person holds the fabric in-place.

Installing Replacement Fabric

1. Unroll the replacement fabric so that the polycords are parallel with the roll tube.

2. On a clean, level surface free of any debris that could scratch or damage the roll tube, gently slide the roll tube onto the two polycords of the fabric (**Fig.15**).

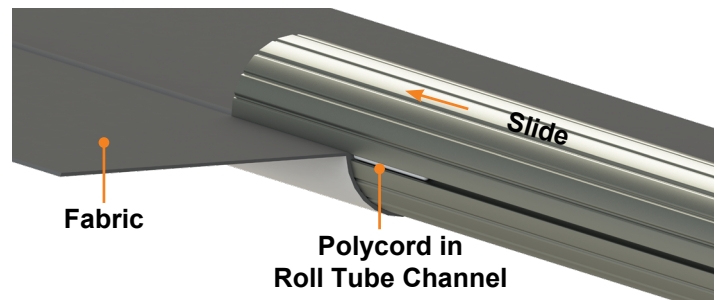


Fig.15

3. Center the fabric on the roll tube.

4. Apply the screws that were holding the polycords in place on the roll tube.

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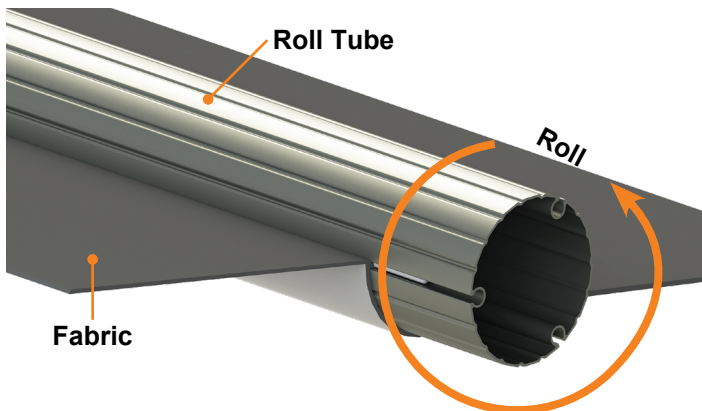


Fig.16

5. Roll the fabric onto the roll tube (**Fig.16**). Make sure the fabric stays snug and flat to the roll tube with the printed side facing outward.

6. Using the three screws previously removed from the end caps, attach the drive head and idler head assemblies to the roll tube, making sure the orientation is the same.

NOTE: Make sure to align the drive head assembly with the previously made marks for the cam lock location.

7. Secure the idler head and roll tube to the work bench.

8. Rotate the drive head assembly counterclockwise the number of turns stated on the turn chart. Insert a cotter pin into the end cap into the shaft on the drive head assembly.

Classic Awnings Fabric Replacement Turn Chart

Roll Tube Width	Turns
6' to 10'	12
11' to 14'	13
15' to 18'	14
19' and up	16

⚠ CAUTION

FAILURE TO MAINTAIN CONTROL OF THE ROLL TUBE, FABRIC AND DRIVE/IDLER HEADS MAY RESULT IN PERSONAL INJURY OR PROPERTY DAMAGE.

9. Working with one or two other persons, install the roll tube assembly, which includes the drive/idler head assemblies, to the awning rail by sliding the assembly along the awning rail. Make sure the awning will unroll with the printed side of the fabric up.

⚠ CAUTION

FAILURE TO SUPPORT THE ROLL TUBE, FABRIC AND DRIVE/IDLER HEAD ASSEMBLIES DURING INSTALLATION MAY RESULT IN PERSONAL INJURY OR PROPERTY DAMAGE.

10. Unroll the fabric from the roll tube to allow the drive and idler head assemblies to be installed into the outer support arms.

11. Install the previously removed drive head assembly and idler head assembly retaining bolts into the outer support arms to secure the components.

12. Reinstall the previously removed support arm upper mounting bracket to the unit wall.

13. Make sure the cam lock is in the roll out position and remove cotter pins from the awning heads.

14. Retract and extend the awning several times (see Operation section) to ensure that the fabric is square on the roll tube.

15. Secure the fabric in the awning rail 1" inside the edge of the fabric on both ends using a #6 x 1/2" hex. head screw. Install the screw down through the awning rail and into the fabric and polycord (**Fig.17**).

16. If equipped and previously removed, reinstall the drip cap.

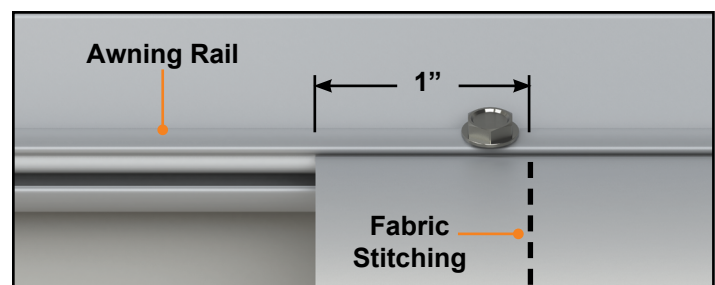


Fig.17



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Maintenance - Solera® Awnings

Fabric Care

If the awning is retracted while wet, extend the awning and let it dry as soon as conditions allow before retracting. This will help prevent the formation of mildew and add greatly to the life of the awning.

NOTE: Mildew does not form on the fabric itself, but on the accumulated dust, dirt and grime.

Note: Periodically clean vinyl or woven acrylic fabric using a mixture of ¼ cup of dish soap and 5 gallons of warm water. Liberally apply the mixture on the top of the fabric and retract the awning for 5 minutes. This will apply the mixture to the bottom of the fabric as well. Extend the awning and hose off with fresh water. Repeat if necessary. Allow to dry before retracting.



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Troubleshooting chart

What is Happening?	What Should Be Done?
Awning will not extend.	Check position of the cam lock (extend) roll out.
	Ensure that the travel locks have been released from the outer arm.
	Make sure the locking knob for the rafters has been loosened.
	Check to see if the outer arm is resting on the mount/rafter arm. If so, the outer arm height adjustment is not set properly.
Awning will not retract or only retracts part way.	Make sure the mount/rafter arms have been put in the stored position and the locking knob has not been tightened.
	Check position of cam lock (retract) roll in.
	Ensure the outer arms have been placed in the closed/stored position.
	Ensure the awning has the proper tension on it.
Fabric is loose or sags on the edges and middle.	Ensure that the mount/rafter arm is not secured to the head of the outer arm.
	Make sure the mount/rafter arms have been put in the stored position and the locking knob has not been tightened.
	Check position of cam lock (retract) roll in.
	Ensure the outer arms have been placed in the closed/stored position.
Locking knob will not tighten.	Ensure the awning has the proper tension on it.
	Ensure that the mount/rafter arm is not secured to the head of the outer arm.
	The nut for this is a thread part that tightens the arms together. Open the awning and check when turning the knob that the nut is not stripped out. If it is not stripped, it would require replacing both parts.
Mount/rafter arm will not extend.	Make sure the locking knob has been loosened.
	Make sure there is no debris in the track the arm slides in.
	Make sure arm is not bent.
Awning will not roll up straight.	Check to make sure fabric is centered on roll tube and also centered between the arms attached to the unit.
	If the fabric is not centered, move the screws on both ends of the awning and shift the fabric accordingly.
	Make sure there are screws at both ends of the fabric securing it to the roll tube and at the awning rail. If there is only one screw at one end and not the other, the awning may not roll up correctly.
	Make sure the legs are square and straight.
Awning will not stay in the rolled out position.	Check the cam lock. Signs of a faulty cam lock include: The absence of a clicking noise when the awning is rolled out. The awning rolling back up after it is placed in the stop position.



Notes

[illegible]



Notes

[illegible]



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Notes

The logo for Lippert Components. It consists of a circular emblem on the left containing a stylized, interlocking 'LC' in a dark, metallic-looking font. To the right of the emblem, the word 'LIPPERT' is written in a large, bold, sans-serif font, and the word 'COMPONENTS' is written below it in a smaller, all-caps, sans-serif font. A registered trademark symbol (®) is located to the upper right of the emblem.



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Follow proper safety practices. If in doubt, consult a professional RV technician.