



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.

Additional information about this product can be obtained from lci1.com/support or by downloading the free LippertNOW app in Apple App Store® for iPhone® and iPad® and also on Google Play™ for Android™.

For information on the assembly or individual components of this product, please visit: <https://support.lci1.com/awnings/>

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

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

⚠ CAUTION

THE “CAUTION” SYMBOL ABOVE IS A SIGN THAT A SAFETY RISK IS INVOLVED AND MAY CAUSE PERSONAL INJURY AND/OR PRODUCT OR PROPERTY DAMAGE IF NOT SAFELY ADHERED TO AND WITHIN THE PARAMETERS SET FORTH IN THIS MANUAL.



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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

Classic Awnings Pre-Install Turn Chart

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.

Roll Tube Width	Turns
6' to 14'	4
15'	5
16' to 18'	6
19' to 21'	8

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

B. Turn the idler head clockwise the correct number of turns.

C. For both A and B, insert a cotter pin into the end cap into the shaft on both the drive and idler side head assemblies after adding tension.

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.

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 $\frac{1}{2}$ " hex head Screws
- $\frac{1}{4}$ " x 2 $\frac{1}{2}$ " lag screws
- #6 x $\frac{1}{2}$ " hex head self-tapping screws



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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.

Installing the Awning Rail (If Needed)

NOTE: Awning rail not included.

1. Installation of awning rail is dependent on sidewall mounting.

A. Sidewall Mounting - Position the awning rail along the line where roof and wall meet, or a minimum of 4" above doors or windows (Fig.1).

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.

4. Secure the awning rail:

A. Sidewall Mounting - Align the awning rail on the wall and secure with #10 x ¾" screws, using all fastener holes.

Awning Rail Assembly Parts	
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

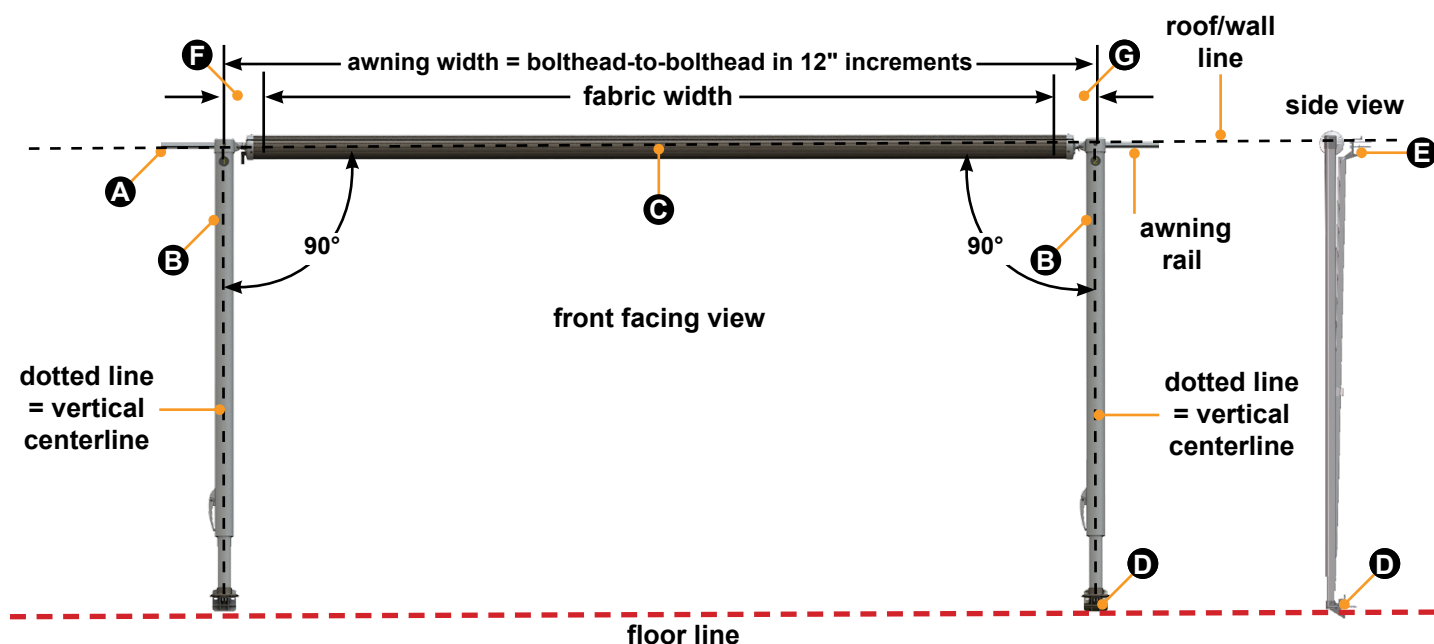


Fig.1



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Assembling the Awning

1. On a flat surface, carefully lay out the support arm assemblies and roll tube assembly. The cam lock (Fig.2A) **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.

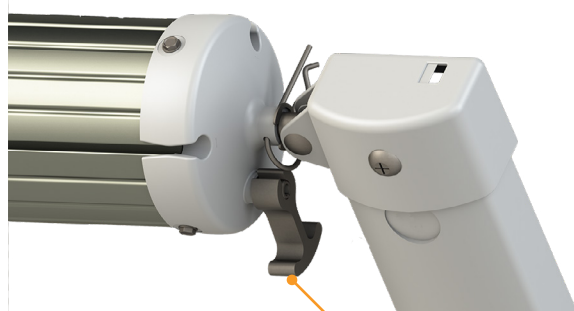


Fig.2

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

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

4. Measure and confirm the width of the awning. The distance is measured from centerline of support arm assembly to the opposite centerline of the other support arm assembly (Fig.1).

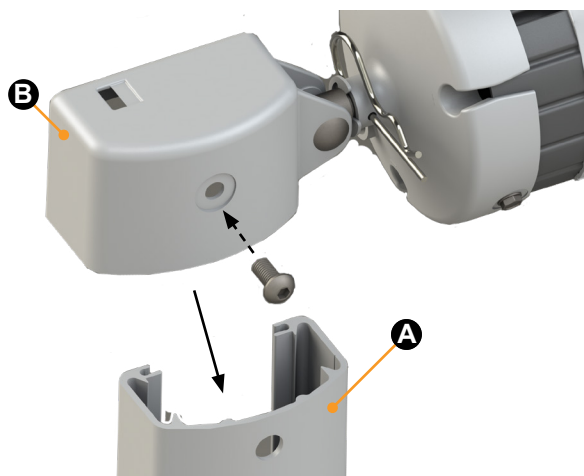


Fig.3

Installing the Bottom Mounting Brackets

1. On the awning rail, mark the position of the centerlines of the support arm assemblies. Make sure 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.4A).

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

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.4C).

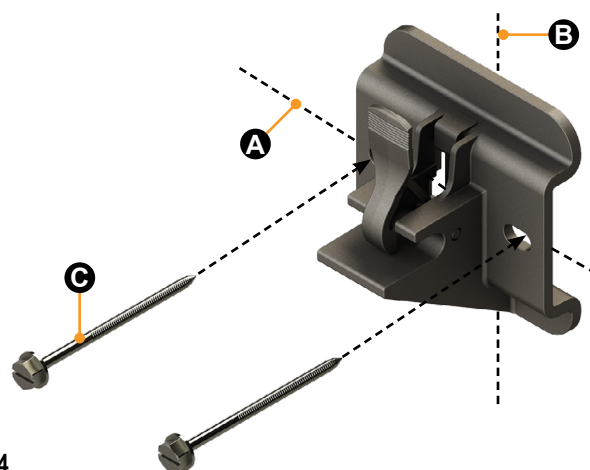


Fig.4

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.

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



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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. Loosen the knob on the rafter arm. Open the support arm assembly handle (Fig.5) and slide the outer arm lower channel #2 (Fig.6) up or down to desired height.

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

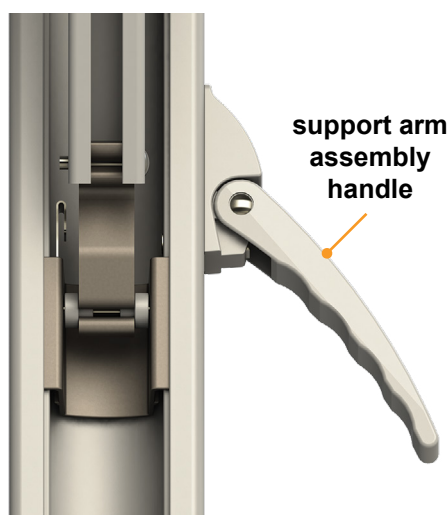


Fig.5

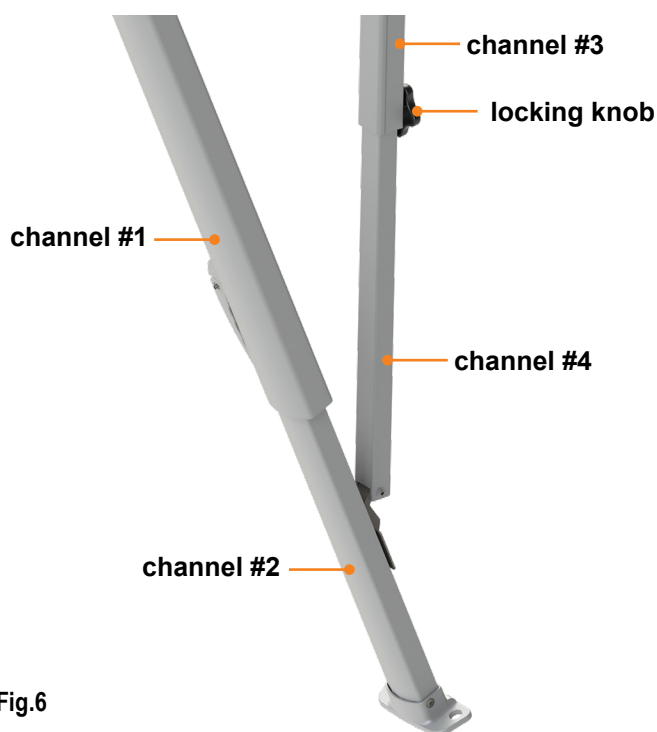


Fig.6

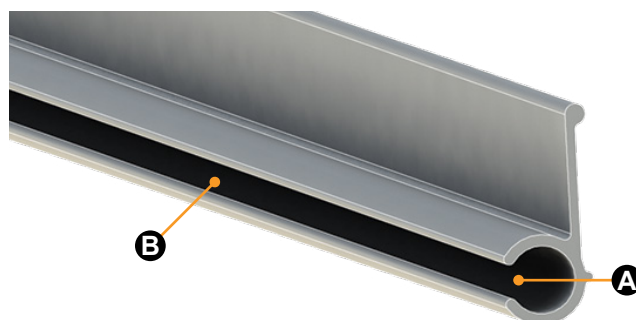


Fig.7

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.

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.



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6. 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.

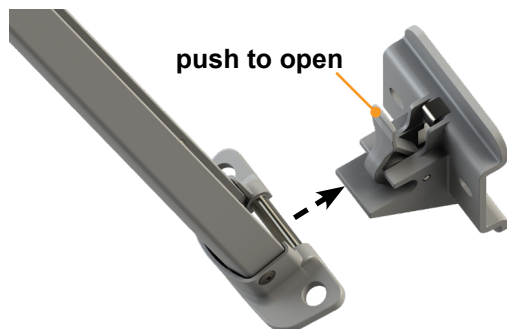


Fig.8

7. 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).

8. Slide the support arm upper channel (Fig.9A) up or down as needed over the support arm lower channel (Fig.9B).

NOTE: If adjustments need made so the upper mounting brackets straddle the awning rail, loosen the black locking knob on the support arm upper channel (Fig.9A).

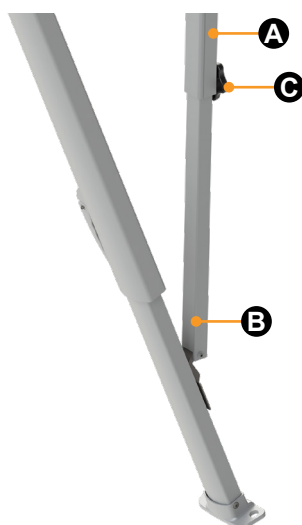


Fig.9

Sidewall Installation

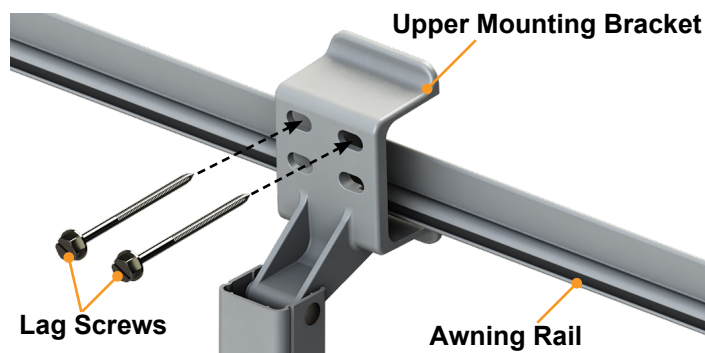


Fig.10

9. Secure the upper mounting bracket.

A. Sidewall - 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 (Fig.9C) on the mount/rafter arm upper channel (Fig.9A).

10. 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 (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.



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11. Repeat steps 8-11 for the other support arm assembly.

⚠ CAUTION

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 PROPERTY DAMAGE.

⚠ CAUTION

FAILURE TO MAINTAIN CONTROL OF THE ROLL TUBE, FABRIC AND SUPPORT ARM ASSEMBLIES MAY RESULT IN SERIOUS PERSONAL INJURY OR PROPERTY DAMAGE.

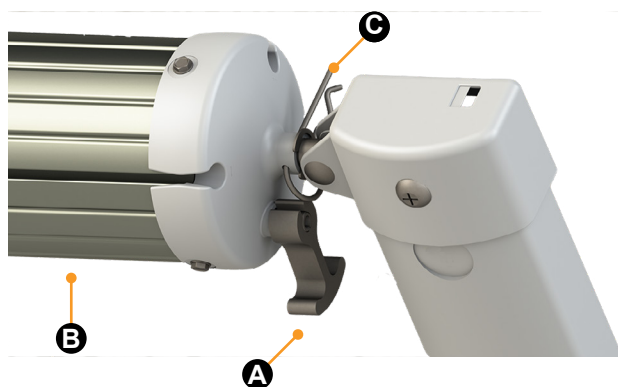


Fig.11

12. Place cam lock into the roll-out position (Fig.11A) Firmly grasp the roll tube (Fig.11B) and remove the safety catter pin (Fig.11C) from each end of the roll tube.

13. 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.



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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 self-tapping screw. Install the screw into the awning rail into the fabric and the polycord (Fig.12).

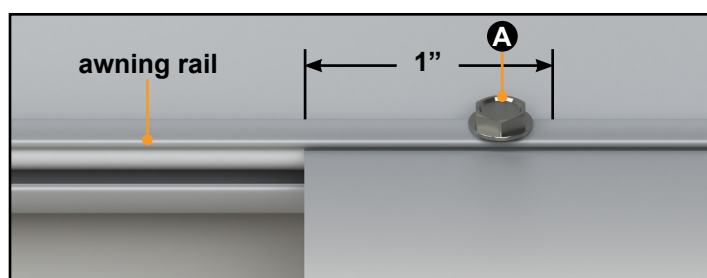


Fig.12

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.13) and slide the outer arm upper channel #1 (Fig.13A) up or down to the desired height.
 - B. Close the handle and slide the outer arm upper channel #1 (Fig.13A) upward on the outer arm lower channel #2 (Fig.13B) until the locking pin clicks into the nearest positioning hole.

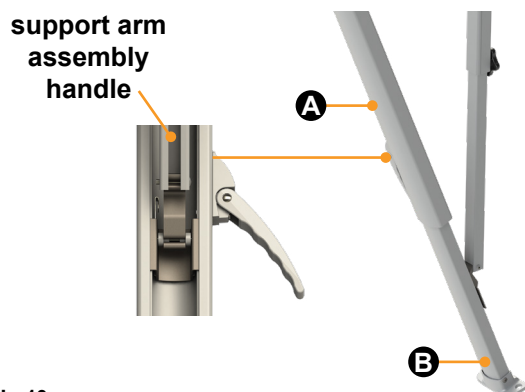


Fig.13

4. With a non-permanent method of marking, mark the position of the stop hole that is directly below the outer arm upper (Fig.13A).

5. From the inside of the outer arm lower (Fig.13B), insert a 5/16" bolt through the hole. Secure with a star washer and a 5/16" acorn nut using 1/2" socket and wrench (Fig.14).

NOTE: It may be necessary to lift the outer arm upper (Fig.13A) to tighten the acorn nut.

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

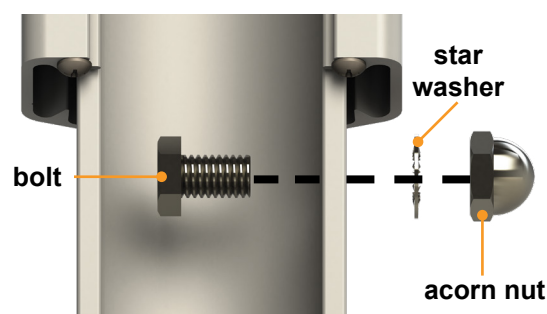


Fig.14



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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 UNIT.

Extending the Awning

1. Release the travel locks accordingly as they appear on the unit.

A. Travel Lock - Press slightly upward on the tab (Fig.15A) on the travel lock base latch (Fig.15B) to release the travel lock body (Fig.15C).

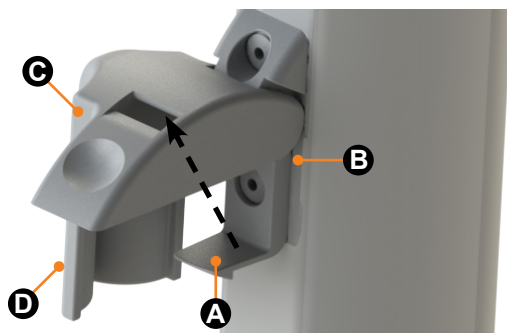


Fig.15

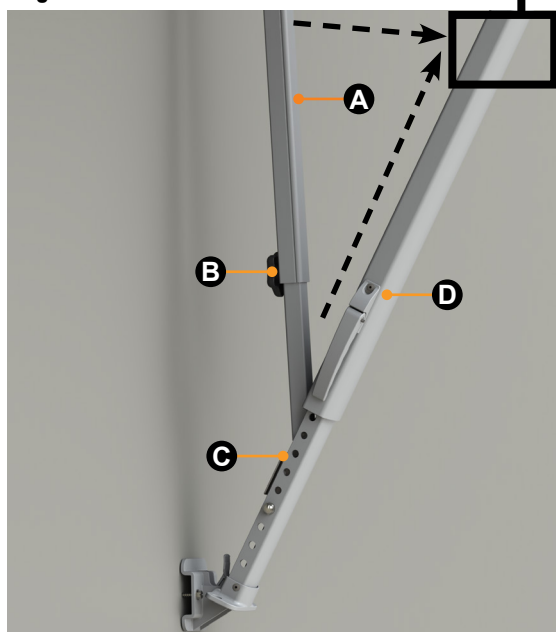


Fig.16

B. Swing the travel lock body arm (Fig.15D) from behind the support bracket (Fig.16A) to release the outer arm (Fig.16D).

2. Loosen the black locking knobs (Fig.16B) on the support arms.

3. Flip the cam lock (Fig.17B) down to the roll out position.

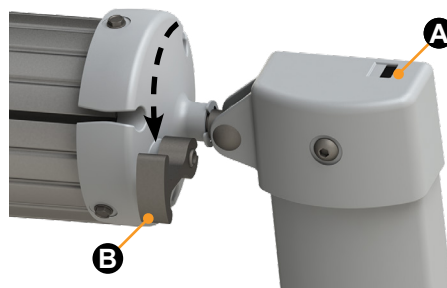


Fig.17

4. Using the pull rod, start pulling the awning outward until full extension is complete.

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

6. Pull on the outer arms to ensure the fabric is taut and tighten the black locking knob (Fig.16B) to lock it into place.

7. Raise the outer arms to the desired height by releasing the support arm assembly handle (Fig.18A) 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.

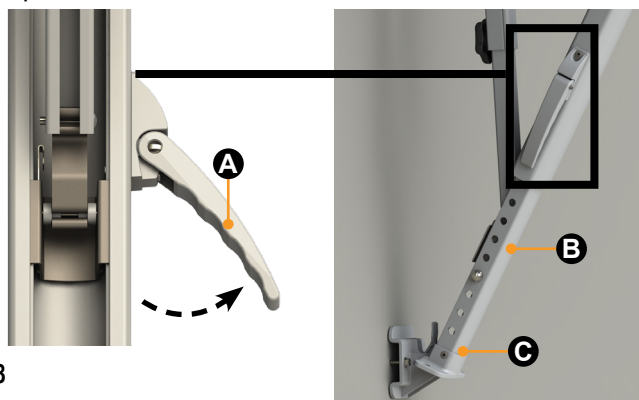


Fig.18

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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Extending Optional Car Port

1. After steps 1-8 in the Extending the Awning section are complete, remove the outer arm (Fig.19A) from the side of the unit by releasing the lever (Fig.19B) on the lower mounting bracket (Fig.19C).
2. Walk the awning out until the outer arm is straight up and down and let it set on the ground.
3. Make sure to secure the foot of the outer arm (Fig.19D) to the ground with the provided stakes.

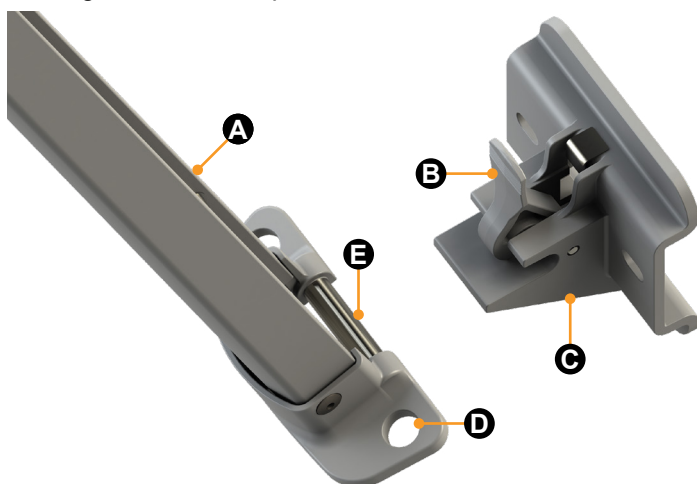


Fig.19

Retracting the Awning

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

1. If the awning is in car port mode, remove the stakes from the foot of the outer arm (Fig.19D). Walk the outer arm back to the unit and secure it into the lower mounting bracket on the sidewall by pushing the lever (Fig.19B) on the lower mounting bracket (Fig.19C) and inserting the outer arm pin (Fig.19E) into the lower mounting bracket of the unit. Repeat procedure on other end.
2. Unwrap the awning pull strap and return it to the center of the awning roll tube.
3. Lower the outer arms by releasing the outer arm assembly handle (Fig.20A) and allow the outer arm upper channel (Fig.20E) to slide down the outer arm lower channel (Fig.20C) until it rests on the acorn nut. Repeat the procedure for the other end.

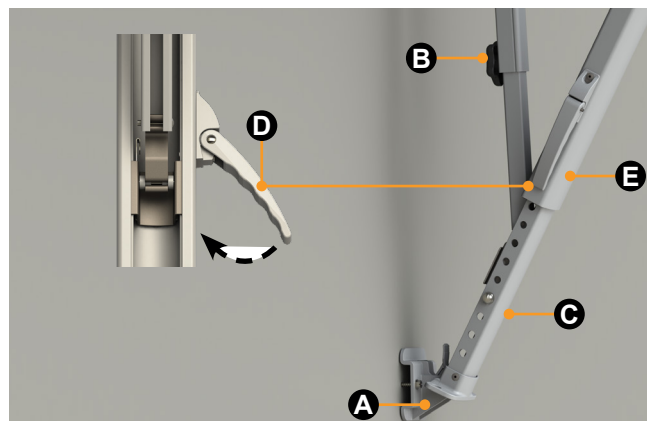


Fig.20

4. Loosen the black locking knob (Fig.20B) and unlock the support arm by releasing the spring clip (Fig.21A) 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.

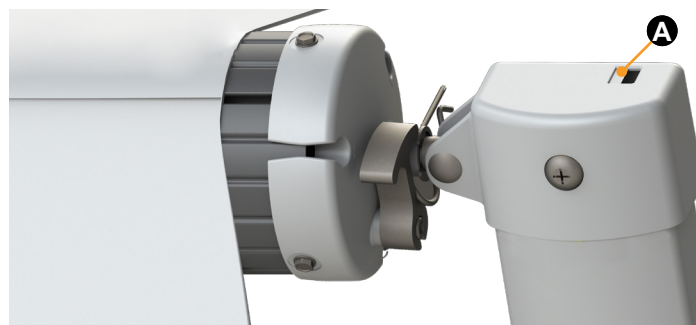


Fig.21

5. Take a firm hold on the awning strap and release the tension on the springs by flipping the cam lock (Fig.21A) up to the roll in position.
6. 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.



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7. Remove the hook from the pull strap and store in a secure location.
8. Secure travel locks accordingly as they appear on the unit.

A. Travel Lock - Compress the outer arm (Fig.23A) and support arm (Fig.23B) together. Swing the travel lock body (Fig.22A) down into the travel lock base latch (Fig.22B). The travel lock body will catch the tab (Fig.22C) to close. The travel lock body's arm (Fig.22D) will wrap behind the arms. Tighten the black locking knob (Fig.23C).

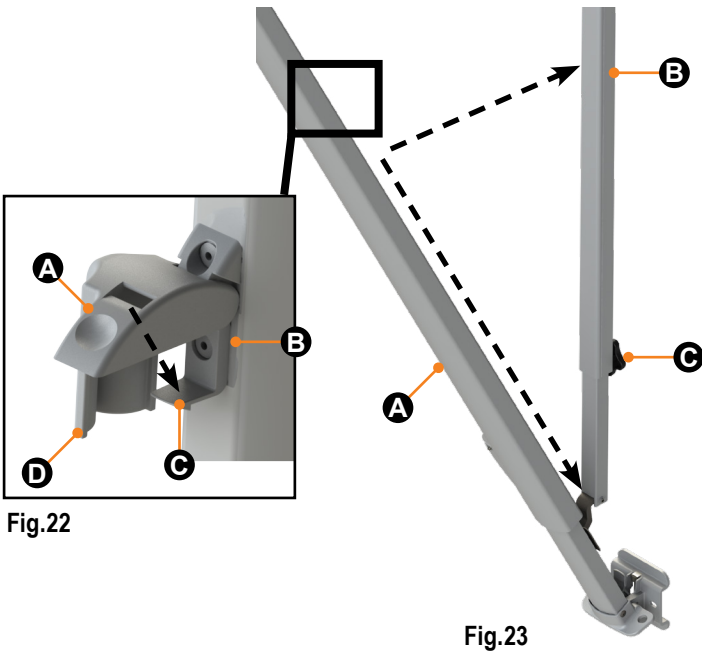


Fig.22

Fig.23



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Troubleshooting

What is happening?	Why?	What should be done?
Awning will not extend.	Cam lock engaged.	Check position of the cam lock (roll out).
	Travel locks engaged.	Make sure that the travel locks have been released from the outer arm.
	Rafter arm(s) locking knob(s) engaged.	Make sure the locking knob for the rafters has been loosened.
	Outer arm(s) is not aligned properly.	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. Readjust outer arm height.
Awning will not retract or only retracts part way.	Rafter arm(s) locking knob(s) is engaged.	Make sure the mount/rafter arms have been put in the stored position and the locking knob has not been tightened.
	Cam lock not engaged.	Check position of cam lock (roll in).
	Outer arm(s) stored properly.	Make sure the outer arms have been placed in the closed/stored position.
	Spring tension not engaged.	Make sure the awning has the proper tension on it.
	Outer arm(s) is in secured position.	Make sure that the mount/rafter arm is not secured to the head of the outer arm.
Fabric is loose or sags on the edges and middle.	Rafter arm(s) locking knob not engaged.	Make sure that the mount/rafter arm has been pulled tight and the locking knob is secured.
	Fabric out of alignment.	Check that the fabric is square on the unit and with the roll tube.
	Fabric is loose on awning rail.	Make sure the fabric is properly secured to the awning rail on the unit.
	Roll tube has been damaged.	Make sure roll tube is not bent.
Locking knob will not tighten.	Locking knob assembly has been damaged.	The lock knob screws into the channel nut and tightens the arms together. Open the awning, check when turning the knob that the nut is not stripped out. If it is stripped, it will require replacing both parts.
Mount/rafter arm will not extend.	Rafter arm(s) locking knob(s) is engaged.	Make sure the locking knob has been loosened.
	Debris is lodged in track arm(s).	Make sure there is no debris in the track the arm slides in.
	Arm(s) is damaged.	Make sure arm is not bent.
Awning will not stay in the rolled out position.	Cam lock wear may be present.	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.

*Troubleshooting chart continued on next page.



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Troubleshooting (continued)

What is happening?	Why?	What should be done?
Awning will not roll up straight.	Fabric out of alignment.	Check to make sure fabric is centered on roll tube and also centered between the arms attached to the unit.
	Fabric has shifted within awning rail.	If the fabric is not centered, move the screws on both ends of the awning and shift the fabric accordingly.
	Anchoring screws within awning rail are missing.	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. Install missing second screw.
	Arm(s) is damaged.	Make sure the arms are square and straight.

Maintenance

Resources Required

- 5 gallon bucket
- ¼ cup of dish soap
- Clean water
- Bristle brush with sufficient reach

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.

Periodically clean vinyl or woven acrylic fabric using a mixture of ¼ cup of dish soap and five gallons of warm water.

1. Liberally apply the mixture on the top of the fabric and retract the awning for five minutes. This will apply the mixture to the bottom of the fabric as well.
2. Extend the awning and hose off with fresh water.
3. Repeat if necessary.
4. Allow awning to dry before retracting.

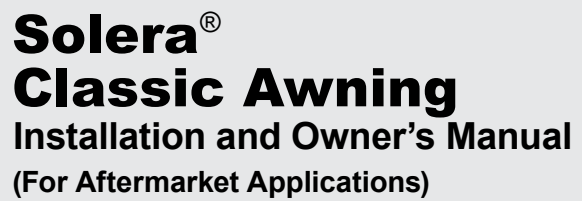
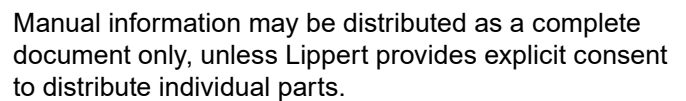
⚠ CAUTION

OVER-SPRAY OF CLEANING SOLUTION CAN CAUSE EYE AND SENSITIVE SKIN IRRITATION. FLUSH AFFECTED AREA WITH CLEAN WATER AND SEEK MEDICAL ATTENTION, IF NECESSARY. WEAR EYE PROTECTION AND APPROPRIATE PROTECTIVE CLOTHING TO AVOID PERSONAL INJURY

⚠ CAUTION

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

[illegible]

[illegible][illegible]

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