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Solera® Destination Awning Installation and Owner's Manual

(For Aftermarket Applications)

Table of Contents

Introduction	2	Maintenance - Solera® Awnings	10
Quick Facts	2	Fabric Care	10
Preparation	2	Solera® Destination Awning Troubleshooting	11
Resources Required	2	Awnbrella™ Parts List	12
Installation	3	Resources Required	13
Installing the Awning Rail (If Necessary)	3	Installation	13
Assembling the Awning	4	Spacing Awnbrella Arms	13
Mounting the Bottom Mounting Brackets	4	Drilling the Roller Tube	14
Mounting the Awning	5	Mounting Hanger Blocks	15
Securing the Fabric	6	Inserting Awnbrella Arms	15
Installing the Stop Bolt	7	Velcro® Stabilizers	16
Operation	7	Proper Awning Extension for Awnbrella Arms	17
Extending the Awning	7	Special Notes:	17
Retracting the Awning	7	Ground Support Introduction	18
Fabric Replacement	8	Resources Required	18
Fabric Removal	8	Installation	18
Installing Replacement Fabric	9	Removal of Ground Support	20
Classic Awnings Fabric Replacement Turn Chart	9		



Solera® Destination Awning

Installation and Owner's Manual

(For Aftermarket Application)

Introduction

Destination campers (or seasonal campers) who set up camp for extended stays will love the Solera® Destination Awning because it provides an additional 20 percent more shaded outdoor area. Not only does the Solera Destination Awning provide a 9'8" projection canopy, it also comes with a Solera® Awning Ground Support and the Solera® Awnbrella® to keep the fabric arched and taut to minimize wind flap and enable rain runoff.

Quick Facts

- Operates like any manual spring roll up awning - basically it's a larger version of the Solera Classic Awning
- Wide selection of vinyl fabric and acrylic fabrics
- Comes standard with the Solera Awnbrella awning bows which hold fabric tight and arched so water doesn't pool and debris can easily runoff
- Comes with a Solera Ground Support for added stabilization
- Custom hardware color options available

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. iTunes®, iPhone® and iPad® are registered trademarks of Apple Inc. Google Play™ and Android™ are trademarks of Google Inc.

⚠ WARNING

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

NOTE: Solera Destination 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.

Classic Awnings Pre-Install Turn Chart

Size	Turns
6' to 10'	4
11' to 14'	5
15' to 18'	6
19' and up	8

Fig.1

Preparation

⚠ CAUTION

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

Do NOT remove the following items until instructed:

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

⚠ WARNING

REMOVING THESE ITEMS PREMATURELY MAY CAUSE SERIOUS INJURY OR PROPERTY DAMAGE.

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



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Solera® Destination Awning

Installation and Owner's Manual

(For Aftermarket Application)

Installation

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

Installing the Awning Rail (If Necessary)

NOTE: Awning rail not included.

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

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

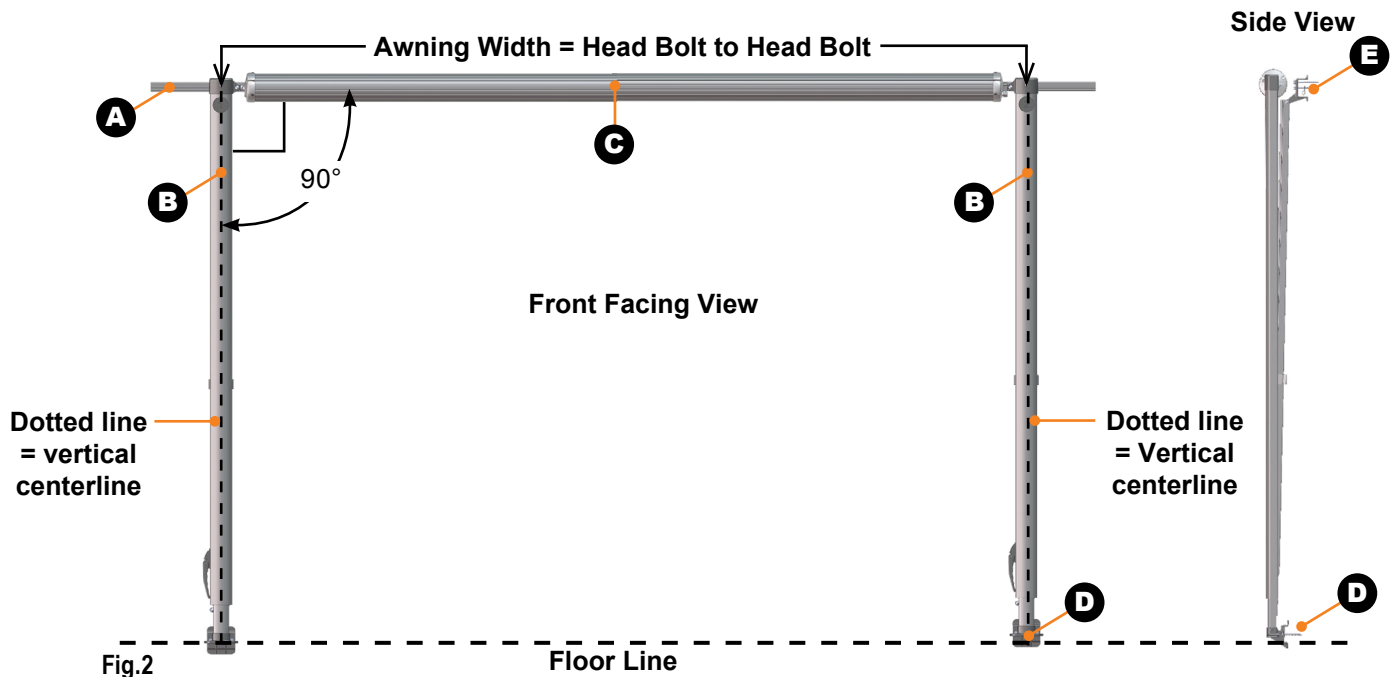
2. After determining the awning rail's proper location, mark its position with a non-permanent method of marking.

3. Seal the back of the awning rail.

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

Assembling the Awning

NOTE: The head assemblies (Fig.3A) and support arm assemblies (Fig.3B) are numbered to ensure proper assembly. Match the proper support arm assembly to the correct head assembly.



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

1. On a flat surface, carefully lay out the support arm assemblies and roll tube assembly. The cam lock **MUST** be on the right side 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.

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 drive screw (Fig.4).

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

4. Measure and confirm the width of the awning. The distance is measured from head bolt to head bolt (Fig.2).

Mounting the Bottom Mounting Brackets

1. On the awning rail, mark the position of the support arm assemblies using the head bolt to head bolt 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.2). Do this for both support arm assemblies.

3. Position the bottom bracket with the fastening points at the floor line (Fig.5A) and center the bracket on the centerline mark of the support arm assembly (Fig.5B). Mark the hole locations. Using a 3/16" drill bit, pre-drill both holes. Apply a liberal amount of sealant over the holes and attach the bracket using the 1/4" x 2 1/2" lag screws 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 unit manufacturer for proper location.

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

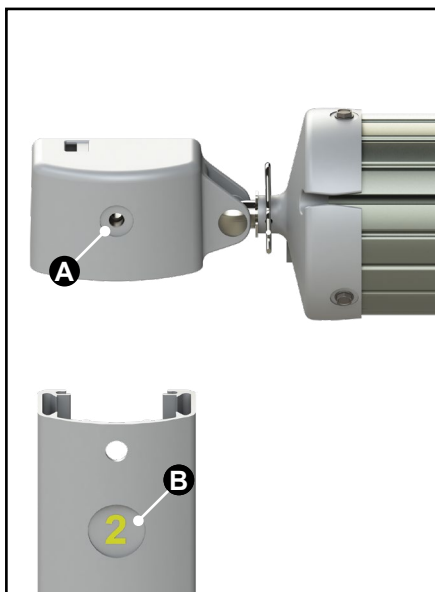


Fig.3

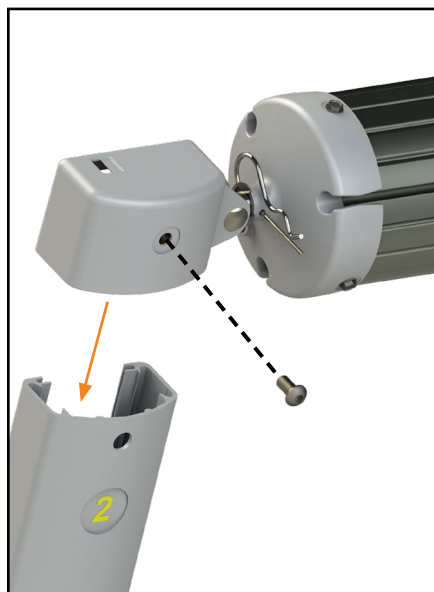


Fig.4

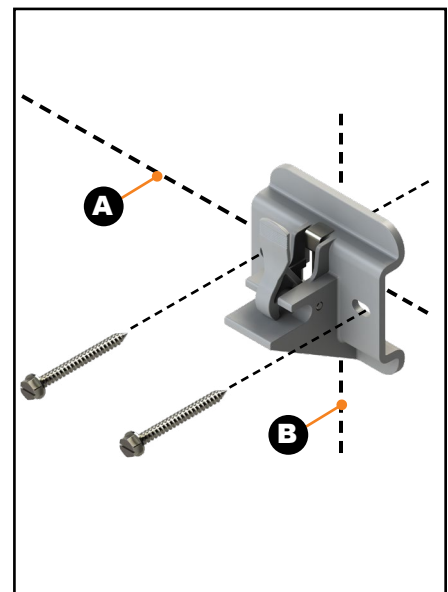


Fig.5

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 (**channel#2**) (Fig.7) up or down to desired height. Close the handle and slide the outer arm lower channel (**channel#2**) (Fig.7) 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. Use silicone lubricant and spray the inside of the awning rail channel (Fig.8B).

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 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. Center the upper mounting brackets on the support arm assembly centerline marked previously and arrange the upper mounting brackets to straddle the awning rail. Tighten the black locking knob on the mount arm upper channel (**channel#3**) (Fig.7).

NOTE: If adjustments need made so the upper mounting brackets straddle the awning rail, loosen the black locking



Fig.6

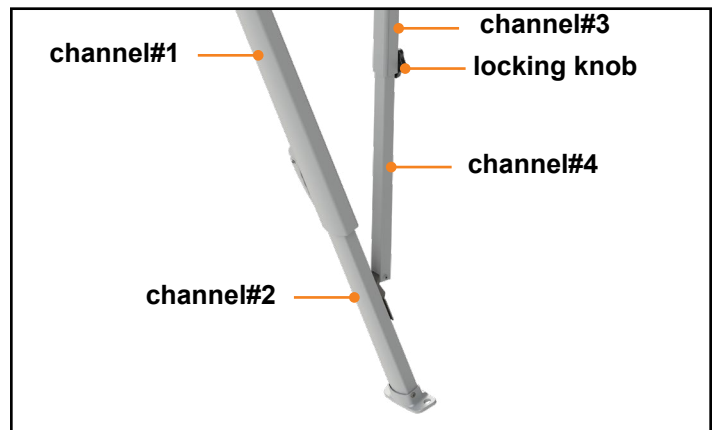


Fig.7

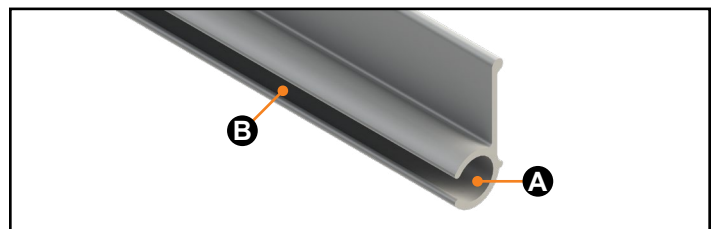


Fig.8

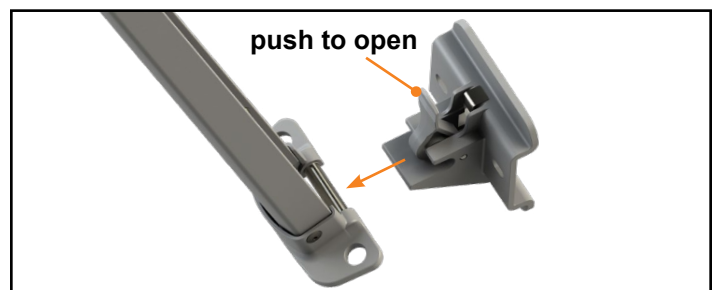


Fig.9

Solera® Destination Awning

Installation and Owner's Manual

(For Aftermarket Application)

knob on the mount arm upper channel (**channel#3**) (Fig.7). Slide the mount arm upper channel (**channel#3**) (Fig.7) up or down as needed over the mount arm lower channel (**channel#4**) (Fig.7).

10. Once the upper bracket is placed, 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 provided (Fig.10).

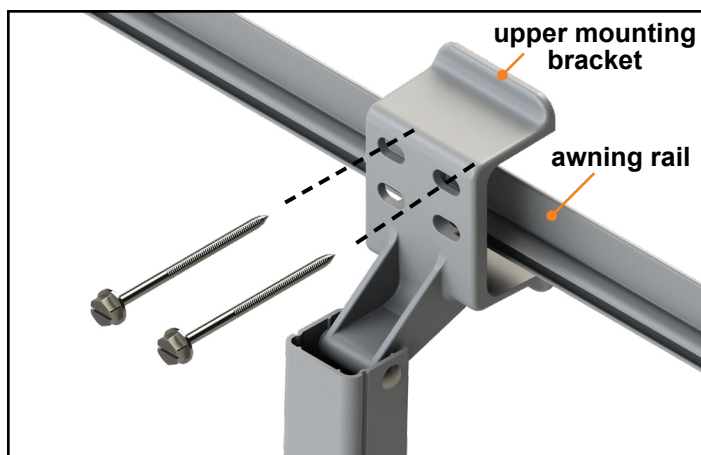


Fig.10

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.

11. Repeat steps 9-11 for the other support arm assembly.

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.

⚠ CAUTION

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

⚠ 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.

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.11).

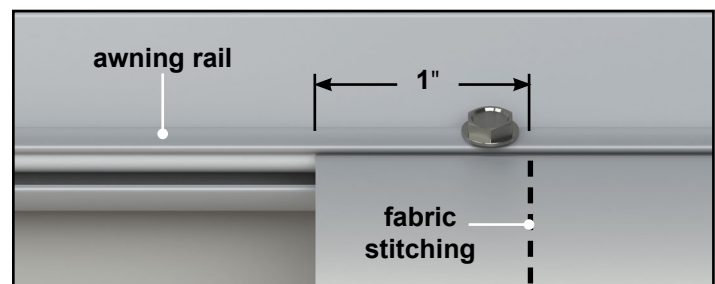


Fig.11



Solera® Destination Awning

Installation and Owner's Manual

(For Aftermarket Application)

Installing the Stop Bolt

1. Make sure the awning is retracted completely.
2. Make sure the centerline of the roll tube is level with or slightly higher than the centerline of the awning rail (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 (**channel#1**) (Fig.7) up or down to the desired height. Close the handle and slide the outer arm upper channel (**channel#1**) (Fig.7) on the outer arm lower channel (**channel#2**) (Fig.7) 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 (**channel#1**) (Fig.7).
5. From the inside of the outer arm lower channel (**channel#2**) (Fig.7), 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.13).

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

NOTE: Repeat step 3 to 5 for the other support arm.



Fig.12

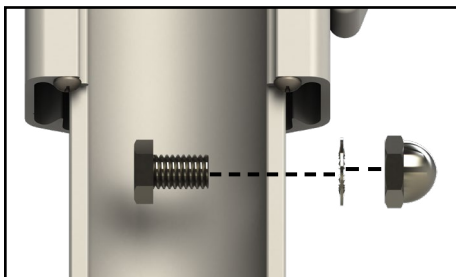


Fig.13

Operation

Extending the Awning

1. Make sure the black locking knobs on the mount/rafter arm upper channel (**channel#3**) (Fig.7) are loosened and 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 and make sure they lock into place.
5. Pull on the mount/rafter arm to insure the fabric is taut and 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 (**channel#1**) (Fig.7) to slide on the outer arm lower channel (**channel#2**) (Fig.7) Once to the desired height let go of the support arm assembly handle to lock the arm at this position.
7. Slide the pull strap to one end or the other and wrap it around the arm to get it out of the way.

Optional Car Port Position

1. Once all the above steps are complete, remove the outer arm from the side of the unit by releasing the lever on the lower mounting bracket.
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 to the ground with the provided stakes.

Retracting the Awning

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

1. If in car portmode, remove the stakes from the foot of the outer arm. Then walk the outer arm back to the unit and secure it to the lower mounting bracket on the sidewall of the unit. Do this for both ends.
2. Take the awning pull strap and return it to the center of the awning roll tube.

Solera® Destination Awning

Installation and Owner's Manual

(For Aftermarket Application)

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 (**channel#1**) (Fig.7) slide down the outer arm lower channel (**channel#2**) (Fig.7) until it rests on the acorn nut. Repeat this for the other end.
4. Loosen the black locking knob and unlock the mount/rafter arm by releasing the spring clip from the top of the head assembly. Allow the mount/rafter arm to slide all the way down toward the bottom of the outer arm. Repeat this for both ends.
5. Take a firm hold on 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. 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.
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. Remove the drip cap (if equipped) from the end the fabric will be removed from.
2. Remove the #6 x 1/2" hex head screws located on the awning rail (2 total). Set screws aside (Fig.11).
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.14).

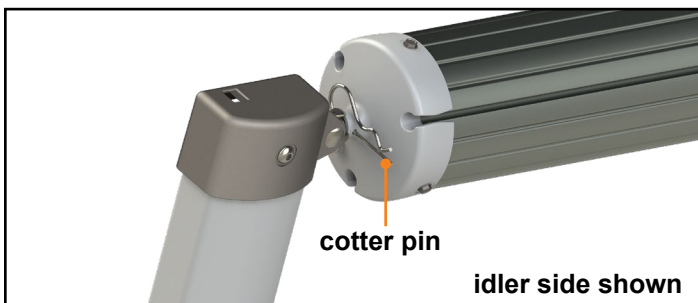


Fig.14

NOTE: If the awning is 6' in length it will only need one cotter pin for the drive side end cap.

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.
6. Remove the drive head assembly and idler head assembly retaining fasteners from the outer arms to separate the components (Fig.15).



Fig.15

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

⚠ WARNING

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

8. Place the removed assembly onto a level area.
9. Have someone securely hold the idler head and roll tube.
10. Hold the drive head assembly securely (there will be tension to be released) and remove the drive head assembly cotter pin.

⚠ WARNING

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

Solera® Destination Awning

Installation and Owner's Manual

(For Aftermarket Application)

11. Flip the cam lock to the roll in position. Slowly rotate the drive head assembly clockwise to release tension.
12. Mark the cam lock position on the roll tube.
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. Gently slide the roll tube on to the two polycords of the fabric, making sure that the non-printed side is touching the roll tube (Fig.16).

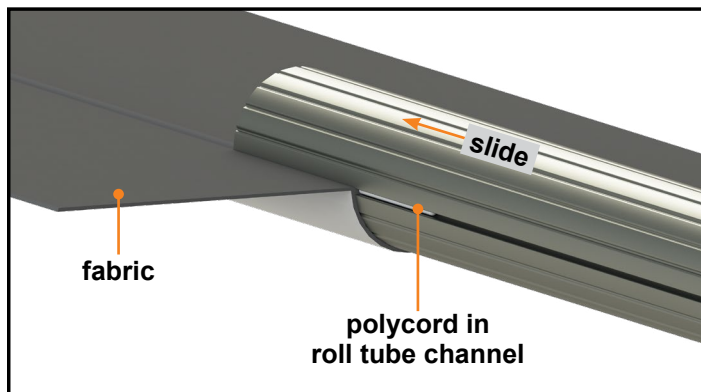


Fig.16

3. Center the fabric on the roll tube.
4. Apply the screws that were holding the polycords in place on the roll tube.
5. Roll the fabric onto the roll tube (Fig.17). Make sure the fabric stays snug and flat to the roll tube with the printed side facing away.

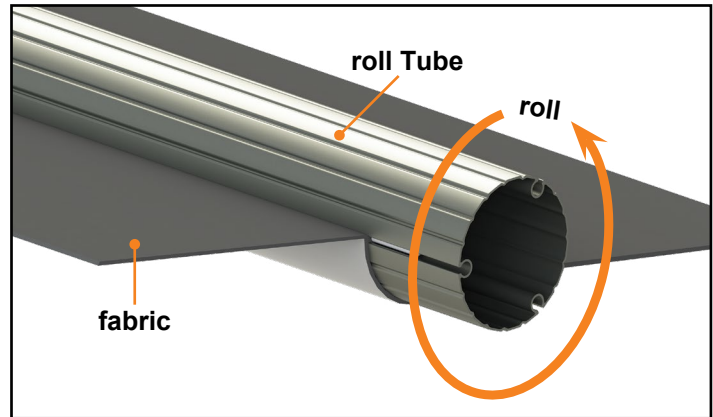


Fig.17

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: Be sure the drive head assembly with the cam lock is on the right-hand side of the awning.

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 (Fig.18). Insert a cotter pin into the end cap into the shaft on the drive head assembly.

Size	Turns
6' to 10'	12
11' to 14'	13
15' to 18'	14
19' and up	16

Fig.18

⚠ WARNING

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

Classic Awnings Fabric Replacement Turn Chart

9. Working together, 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.

⚠ WARNING

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

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

11. Install the previously removed drive head assembly and idler head assembly retaining bolts into the outer 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 of the manual) to ensure that the fabric is square on the roll tube.

15. 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. Install the screw down through the awning rail into the fabric and the polycord (Fig.19).

16. Reinstall the drip cap if previously equipped.

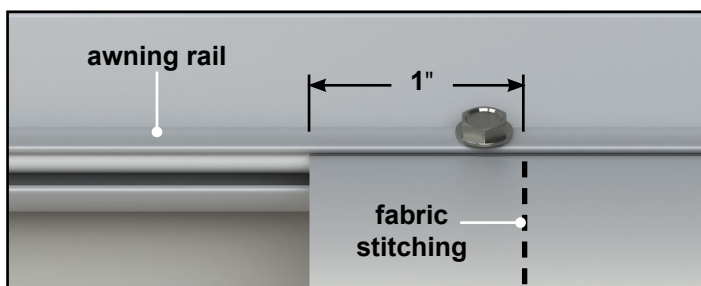


Fig.19

Maintenance

Fabric Care

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

NOTE: Note: Periodically clean vinyl or woven acrylic fabric using a mixture of 1/4 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.



Solera® Destination Awning

Installation and Owner's Manual

(For Aftermarket Application)

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.
	Ensure 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.	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.
	Ensure that the mount/rafter arm is not secured to the head of the outer arm.
Locking knob will not tighten.	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.



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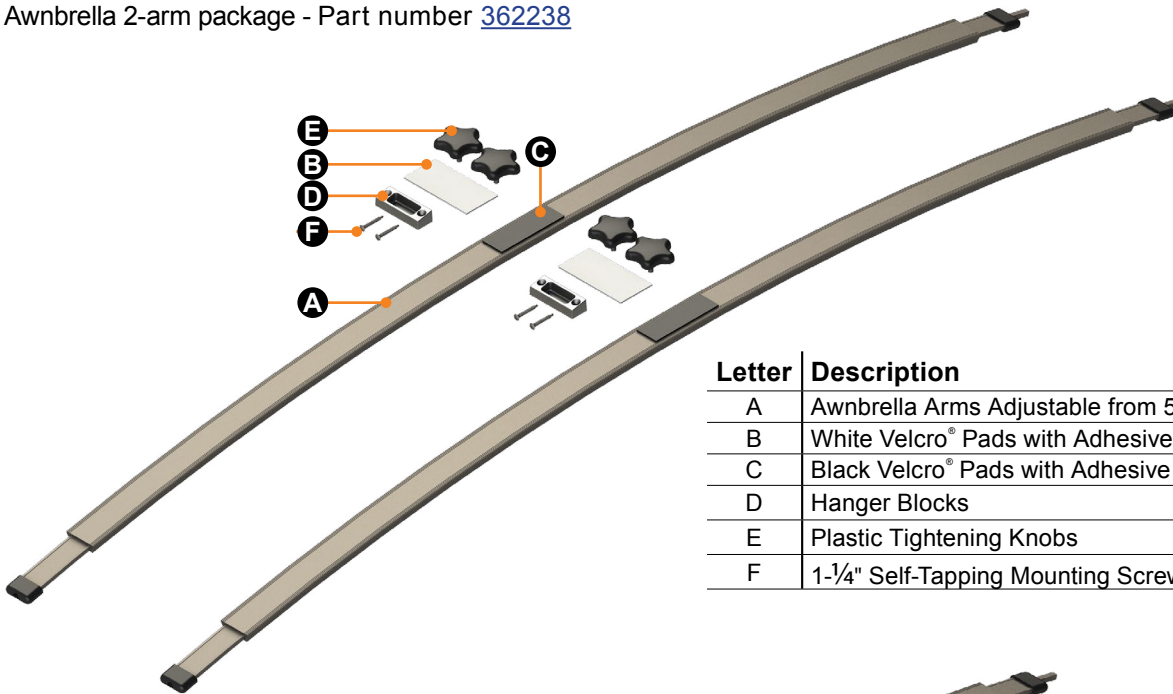
Solera® Destination Awning

Installation and Owner's Manual

(For Aftermarket Application)

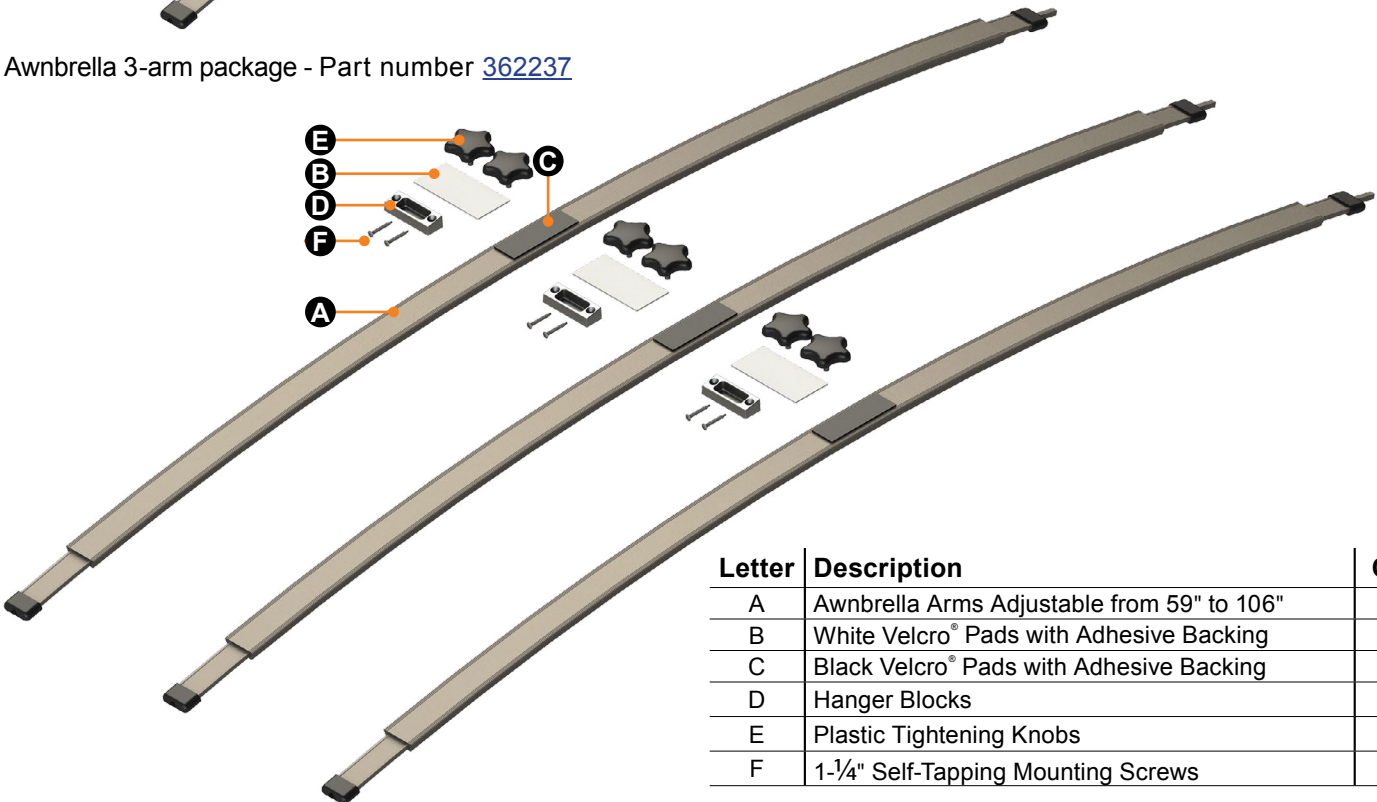
Awnbrella Parts List

Awnbrella 2-arm package - Part number [362238](#)



Letter	Description	Qty
A	Awnbrella Arms Adjustable from 59" to 106"	2
B	White Velcro® Pads with Adhesive Backing	2
C	Black Velcro® Pads with Adhesive Backing	2
D	Hanger Blocks	2
E	Plastic Tightening Knobs	4
F	1-1/4" Self-Tapping Mounting Screws	4

Awnbrella 3-arm package - Part number [362237](#)



Letter	Description	Qty
A	Awnbrella Arms Adjustable from 59" to 106"	3
B	White Velcro® Pads with Adhesive Backing	3
C	Black Velcro® Pads with Adhesive Backing	3
D	Hanger Blocks	3
E	Plastic Tightening Knobs	6
F	1-1/4" Self-Tapping Mounting Screws	6



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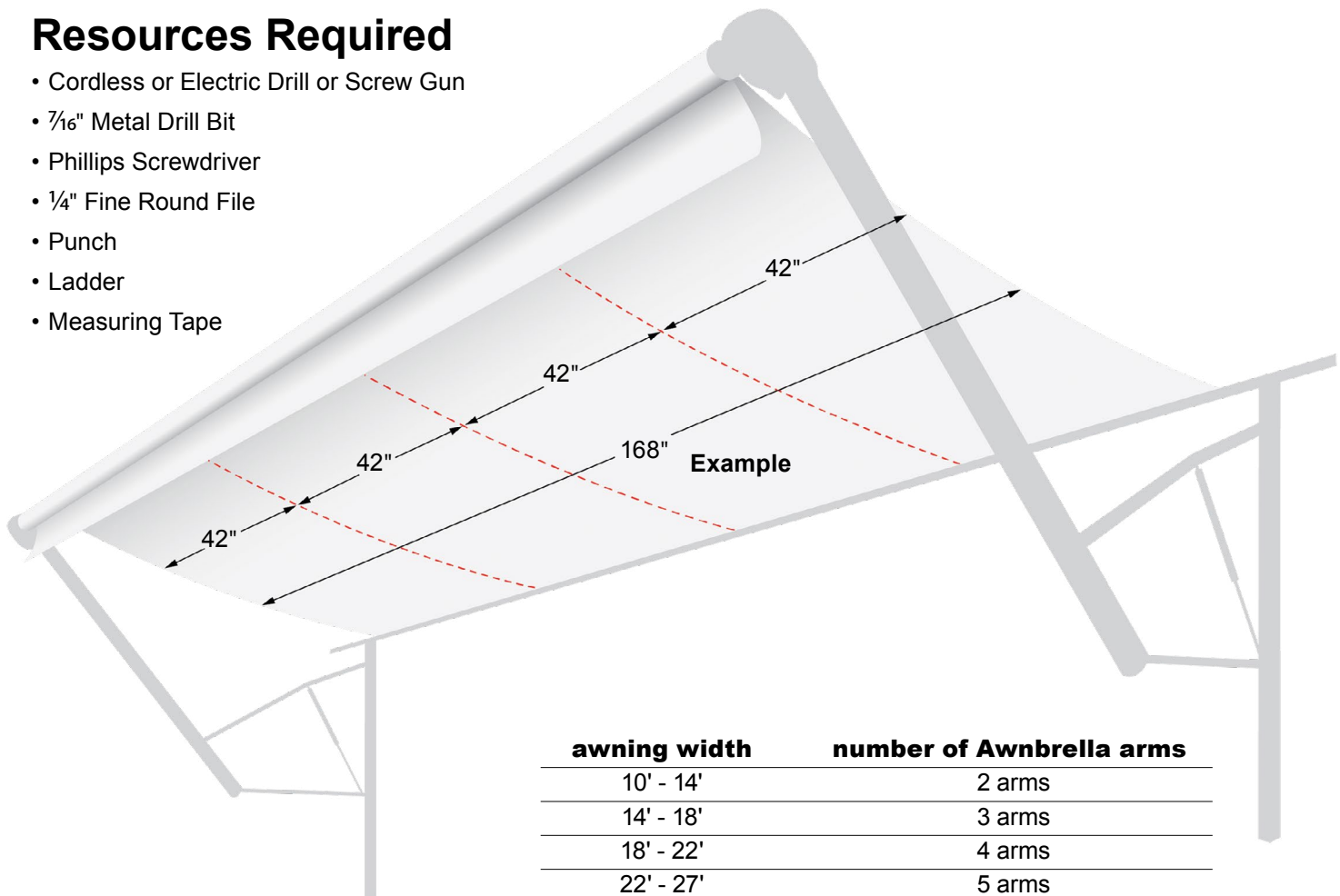
Installation and Owner's Manual

(For Aftermarket Application)

Awnbrella installation is fairly simple. Customers with basic mechanical skills should have no problem installing the Awnbrella themselves.

Resources Required

- Cordless or Electric Drill or Screw Gun
- 7/16" Metal Drill Bit
- Phillips Screwdriver
- 1/4" Fine Round File
- Punch
- Ladder
- Measuring Tape



awning width	number of Awnbrella arms
10' - 14'	2 arms
14' - 18'	3 arms
18' - 22'	4 arms
22' - 27'	5 arms

Installation

Spacing Awnbrella Arms

Awnbrella Arms should be evenly spaced with no more than 54" between each. To find the proper spacing, measure the width of the awning fabric and divide the measurement by the recommended number of arms + 1.

Keep in mind that two arms make three sections, three arms make four sections, etc. Divide the canvas into sections not exceeding 54". See example to the right and installations instructions on the next page.

Example: Awning canopy width measures 14' (168")
Recommended number of arms is $3 + 1 = 4$
 $168" \div 4 = 42"$
Space between each arm should be 42" wide

NOTE: Calculations will not always work out to be a complete whole number. The outer most holes drilled into the roller tube for the Awnbrella arms should not be placed any closer than 42" from the end of the tube to protect the roller tube spring.



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Installation and Owner's Manual

(For Aftermarket Application)

Drilling the Roller Tube

1. With the awning fully extended, measure the distance calculated using the chart on the previous page from the edge of the awning fabric. **(Fig.20)**. Mark the roller tube at that predetermined distance and 1/2" down from the fabric seam. **(Fig.21)**. This is where the first Awnbrella arm will later be installed. Continue

to make all measurements and markings along the roller tube for placement of the remaining arms. Verify the correct spacing before proceeding to the next step.

2. Using a metal punch, indent the marks just made to create a dimple to center the drill bit and keep it from wandering **(Fig.22)**.

3. Drill through the roller tube using a 7/16" bit **(Fig.23)**.

4. Use a 1/4" round file to remove any sharp burrs around the edges of the holes **(Fig.24)**.

NOTE: It is important that all the holes drilled on the roller tube are aligned at 1/2" down from the fabric retaining seam.

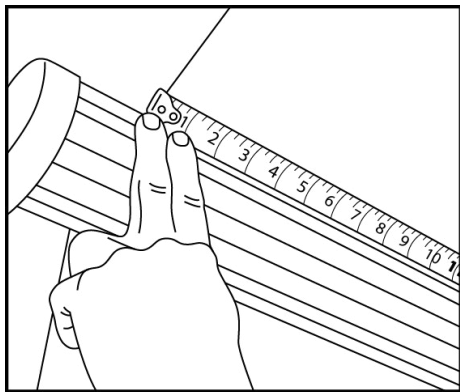


Fig.20

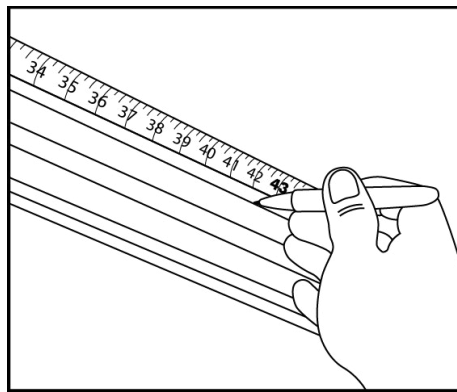


Fig.21

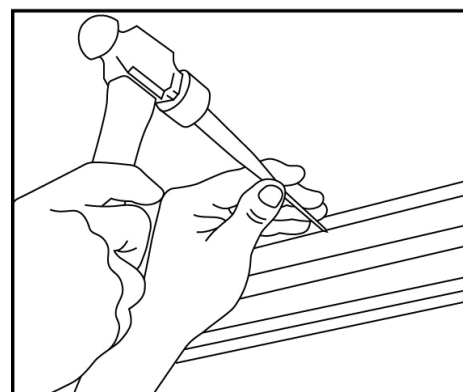


Fig.22

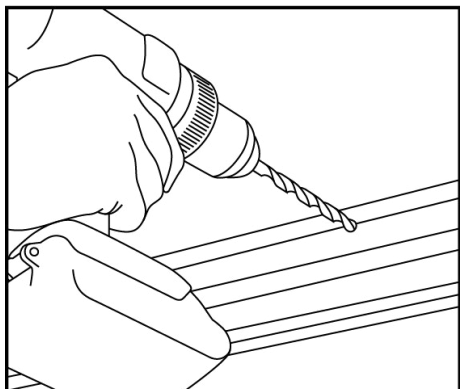


Fig.23

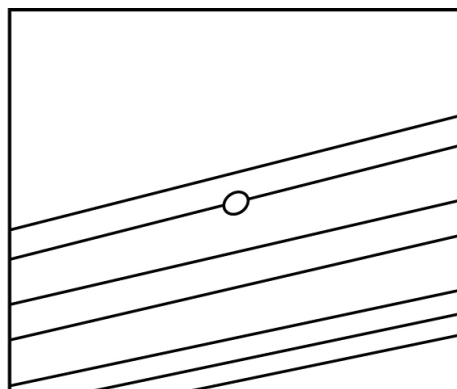


Fig.24



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Installation and Owner's Manual

(For Aftermarket Application)

Mounting Hanger Blocks

1. The hanger blocks **MUST** be mounted on the exterior wall of the RV directly beneath the awning hanger rail and opposite the corresponding holes previously drilled in the roller tube (Fig.25). Measure and mark the position on the RV wall for all Awnbrella arms.
2. Position the hanger blocks using the marks as a center guide with the wide side down and a 1/8" gap between the hanger block and awning hanger rail. Use a Phillips screwdriver or drill bit to secure the hanger blocks with 1-1/4" self-tapping screws. (Fig.26).

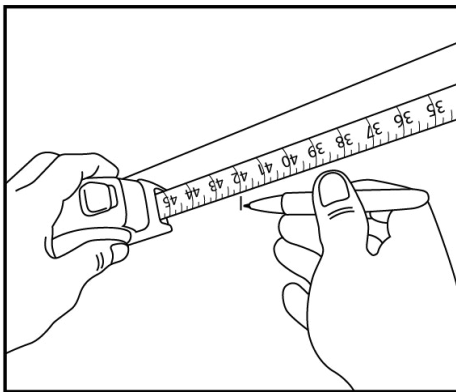


Fig.25

NOTE: Be sure there is backing behind the skin of the RV where the hangers are mounted to prevent pressure damage to the wall. Do not overtighten the screws.

Inserting Awnbrella Arms

1. Thread the plastic tightening knobs into the holes on the Awnbrella arms. Extend one Awnbrella arm and measure from the pointed tip end so that the knob is approximately 8 inches from the end of the C-channel. Tighten the knob (Fig.27).
2. Line up the remaining Awnbrella arms and adjust them as done in step 1. (Fig.28). Adjusting the arms now will make it easier to properly insert them later.

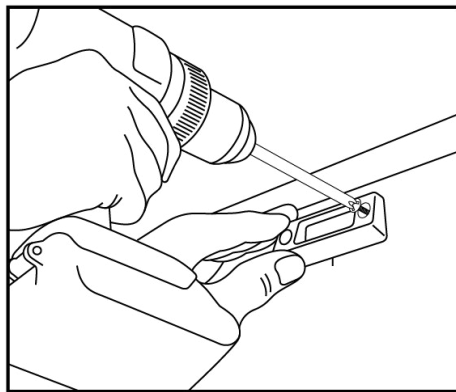


Fig.26

3. Slide the pointed tip of the arm into the hole in the roller tube (Fig.29).

NOTE: If the tip doesn't slide fully into the roller tube, use a round 1/4" file to enlarge the opening until it does.

4. Loosen the knob on the rubber tip end of the arm and push the Awnbrella arm up against the fabric. Slip the rubber tip end of the arm into the hanger block mounted on the RV (Fig.30). The harder the Awnbrella arm is pushed against the fabric, the more tension will be applied to the awning.
5. Tighten the knob so the arm will remain rigidly in place. Be sure Awnbrella arms are secure so they don't fall down.

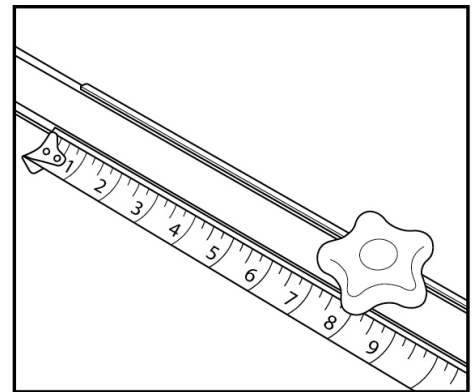


Fig.27

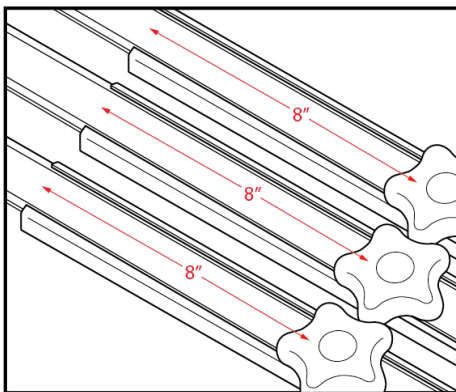


Fig.28

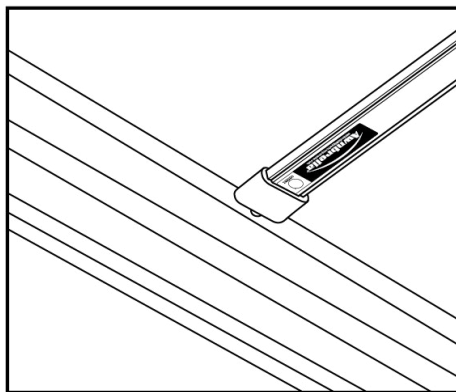


Fig.29

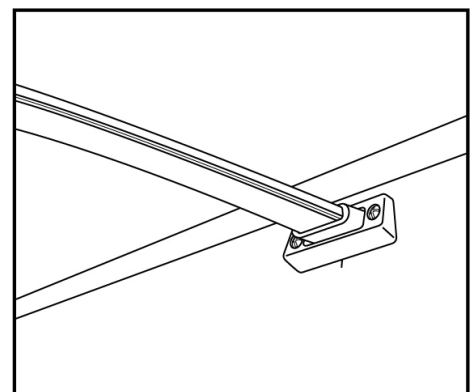


Fig.30



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Installation and Owner's Manual

(For Aftermarket Application)

Velcro® Stabilizers

Velcro stabilizers are included as a safety precaution to secure the Awnbrella and prevent the arms from shifting or falling. Adhere a black patch of Velcro to the back of the Awnbrella arm and a white patch to the canopy.

1. Take the Awnbrella arms down from the coach. On the top side of one Awnbrella arm (side without adjustment knobs), wipe rubbing alcohol to remove any grease or oils from handling on the center of the arm where the Velcro patch will be installed. Measure 28-1/2" from either end of the channel and mark with a

pencil (Fig.31). This is where to install a black patch of Velcro.

2. Center the black Velcro patch over the mark, peel off the protective backing and press firmly into place (Fig.32).

3. Line up all the arms and apply all the patches following steps 1 and 2.

4. Reposition the Awnbrella arm back into the hanger blocks and roller tube, then use alcohol to clean the awning fabric directly opposite the black Velcro patch on the back of the Awnbrella arm. Attach a white Velcro patch to the black Velcro patch on the Awnbrella arm (Fig.33).

5. Remove the clear protective film from the back of the Velcro (Fig.34). Carefully place the Awnbrella arm back into position, pressing it firmly against the awning fabric.

6. Repeat steps 2 and 4 for each Awnbrella arm.

NOTE: Leave the Awnbrella arms in place for 48 hours to allow the adhesive to set. Ideally, Velcro patches should be installed when the temperature is above 70° for the best bond. The adhesive may not bond tightly to some woven acrylic fabrics. Use vinyl contact adhesive available at most hardware stores for a better bond.

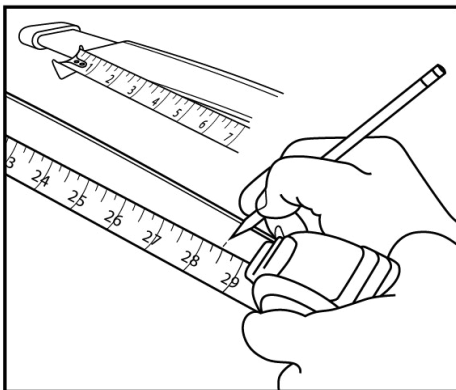


Fig.31

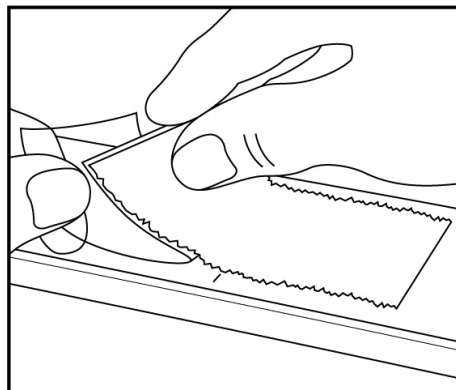


Fig.32

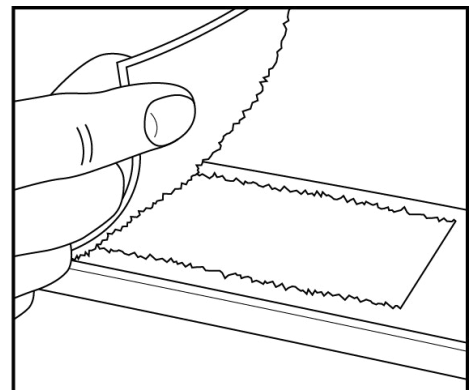


Fig.33

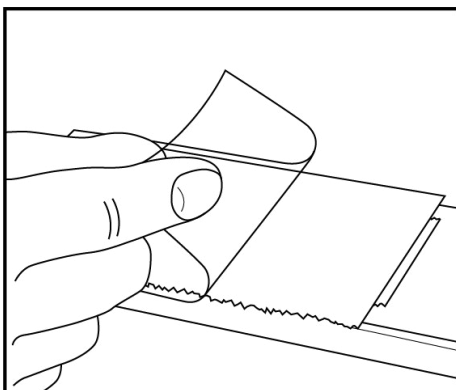


Fig.34



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Solera® Destination Awning

Installation and Owner's Manual

(For Aftermarket Application)

Proper Awning Extention for Awnbrella Arms

To use the awning in the carport position, put it in this position before installing the arms and check to make sure the holes in the roller bar are in an upward position (Fig.35).

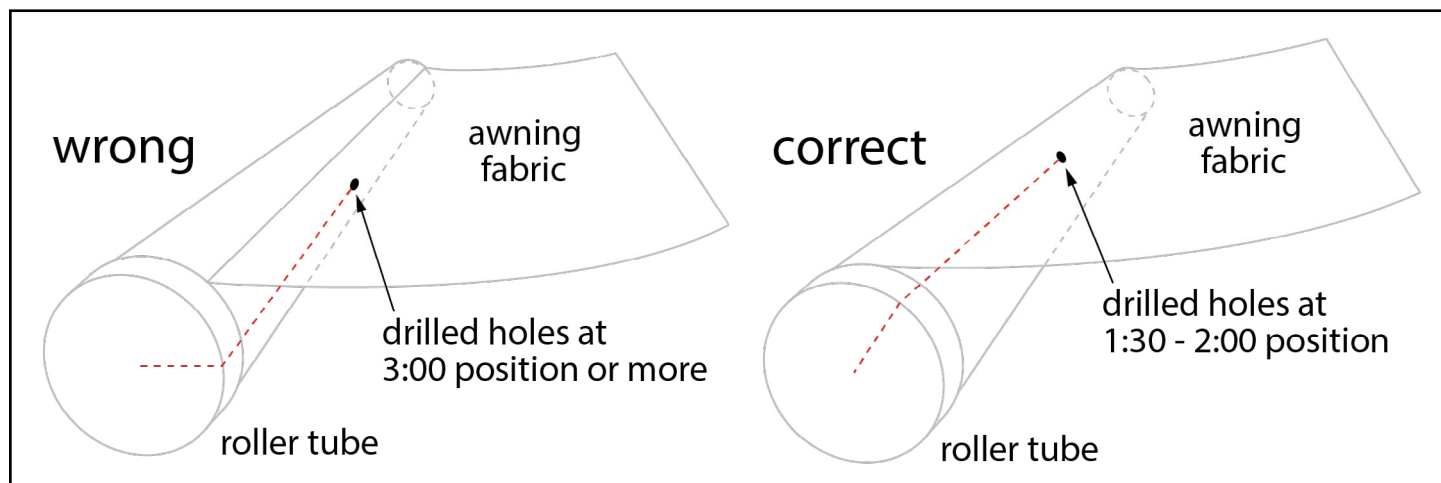


Fig.35

Special Notes:

- For proper water drainage, the roller tube **MUST** be at least 6" lower than the hanger rail on the RV. Check drainage with a water hose to be sure.
- Follow all care instructions recommended by the awning manufacturer.
- The awning may stretch slightly where it meets Awnbrella arms. This should present no problem in performance. Canvas should be in good condition when using the Awnbrella or it could rip.
- Lippert Components is not responsible for damage or injury due to improper use or installation.

Never:

- Leave the awning out in strong winds. Lippert Components makes no claims regarding the performance of this product in windy conditions.
- Drill into the roller tube closer than 42" from each end to avoid striking the awning roller spring.
- Extend or retract the awning while the Awnbrella arms are installed.
- Adjust the pitch of the awning side arms while the Awnbrella arms are installed.



Solera® Destination Awning

Installation and Owner's Manual

(For Aftermarket Application)

Ground Support Introduction

The Solera Ground Support gives added support to the Solera Awnings as well as Carefree Awnings and Dometic Awnings. 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. iTunes®, iPhone® and iPad® are registered trademarks of Apple Inc. Google Play™ and Android™ are trademarks of Google Inc.

⚠ CAUTION

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

⚠ WARNING

IF STAKING GROUND SUPPORT SHADE TO THE GROUND, BE SURE TO DISABLE ANY AND ALL SELF RE-TRACKING WIND SENSING OPTIONS ON YOUR AWNING. FAILURE TO DO SO COULD RESULT IN DAMAGE TO THE AWNING AND UNIT.

Resources Required

- Tape measure
- 7/16" wrench
- Cordless or electric drill or screw gun
- Appropriate drive bits
- Non-permanent method of marking
- 3/8" drill bit
- Hammer

Installation

1. Measure the length of the roll tube (Fig.36).

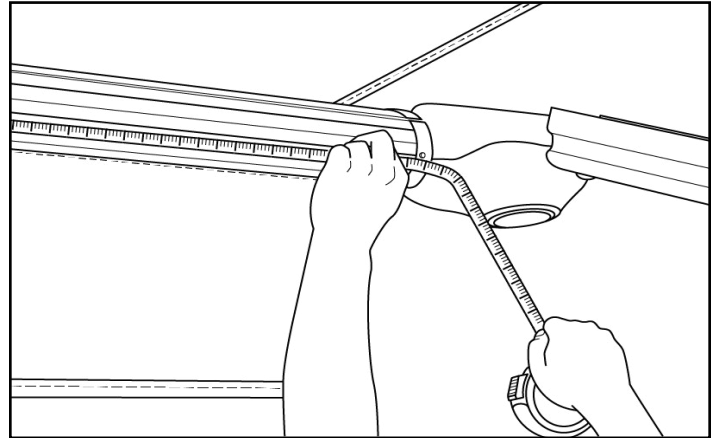


Fig.36

2. Find the center of the roll tube and mark its location (Fig.37).

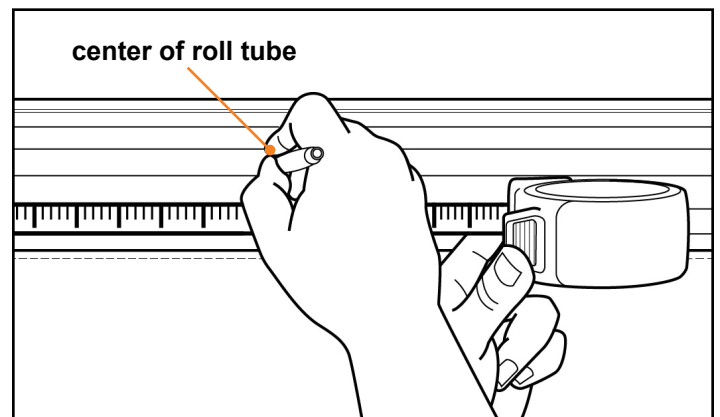


Fig.37

3. Position the Ground Support assembly bracket at the center of the roll tube (Fig.38).

NOTE: Keep the pull strap slot clear so accessories can be used with the Ground Support assembly installed.

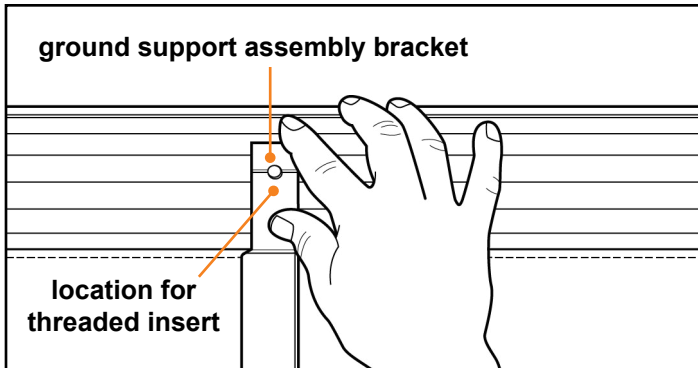


Fig.38

4. Mark the location for the bolt at the center of the roll tube using the Ground Support assembly bracket (Fig.38) as a guide.
5. Drill a $\frac{3}{8}$ " hole at the mark made on the roll tube (Fig.39).

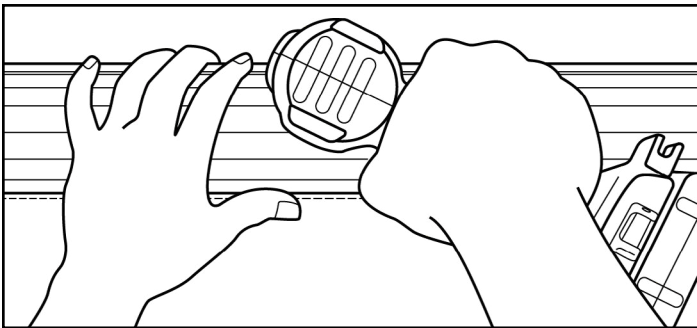


Fig.39

6. Place the bolt through the threaded insert tool and into the threaded insert fastener. Then place the entire assembly into the previously drilled hole (Fig.40).

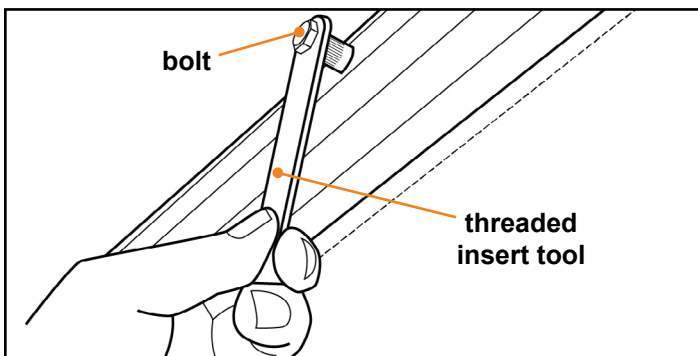


Fig.40

7. Tighten the bolt to set the threaded insert fastener with the $\frac{7}{16}$ " wrench while holding the threaded insert tool stationary (Fig.41).

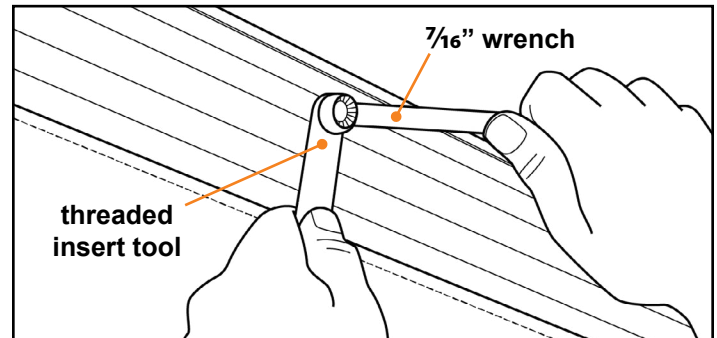


Fig.41

8. Remove the bolt and threaded insert tool (Fig.42). The roll tube will now have a threaded hole.

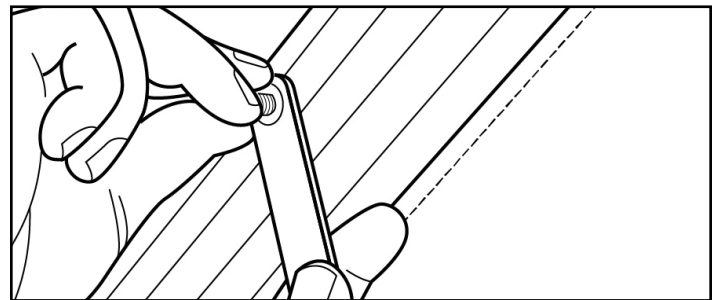


Fig.42

9. Place the Ground Support assembly bracket over the threaded hole. Insert the tightening knob into the threaded hole (Fig.43). Tighten to mount the Ground Support assembly to the roll tube.

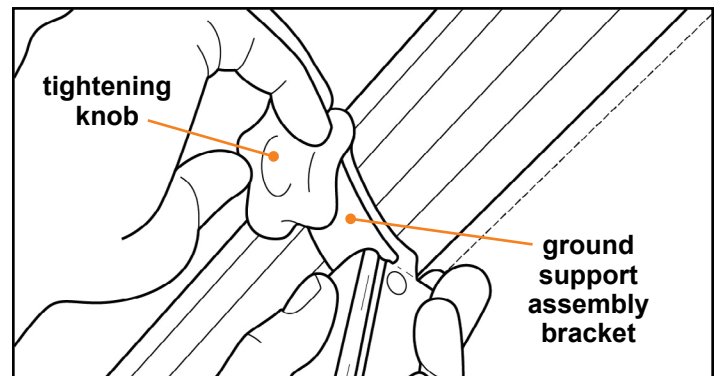


Fig.43

10. Loosen the adjustment knob of the Ground Support assembly (Fig.44) and extend the lower leg of the assembly to the ground (Fig.45) to support the roll tube. Re-tighten the adjustment knob.

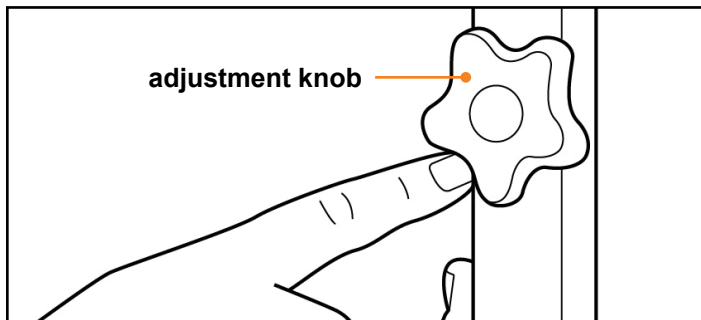


Fig.44

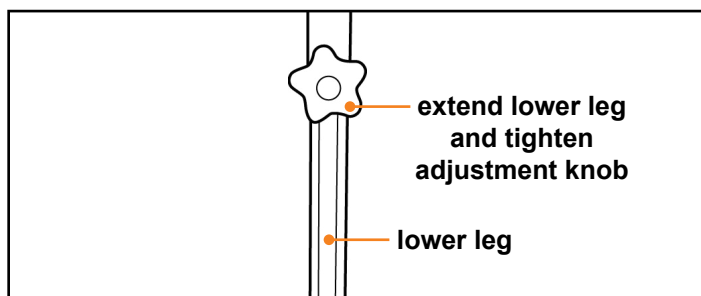


Fig.45

11. At the bottom of the Ground Support assembly, hammer the two stakes through the holes into the ground (Fig.46) for added stability.

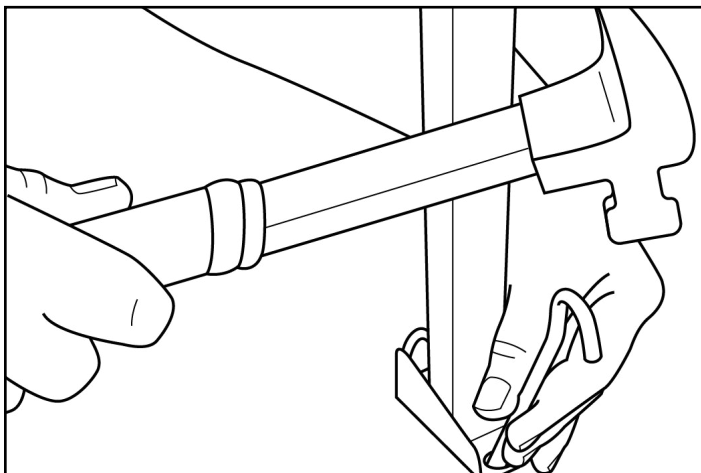


Fig.46

Removal of Ground Support

1. Pull up the stakes from the end of the Ground Support assembly (Fig.47).

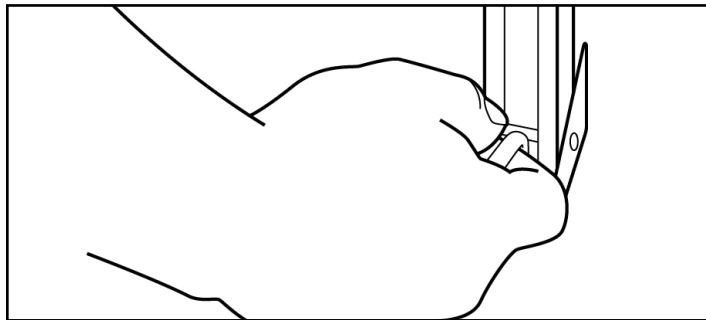


Fig.47

2. Loosen adjustment knob (Fig.48). Slide the bottom leg into the top leg. Re-tighten the adjustment knob.

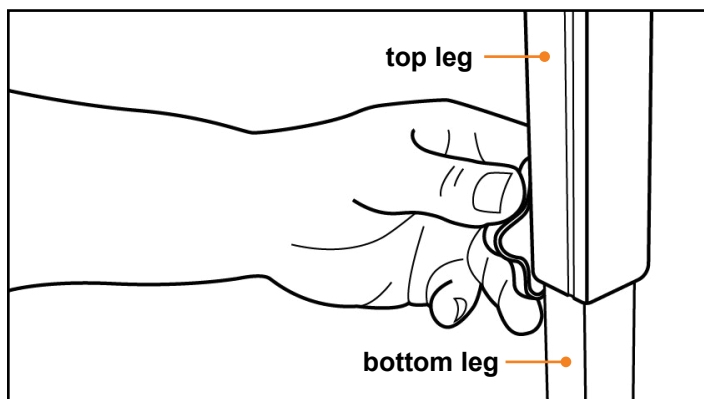


Fig.48

3. Remove the tightening knob from the Ground Support assembly (Fig.49). Remove the entire assembly from the roll tube.

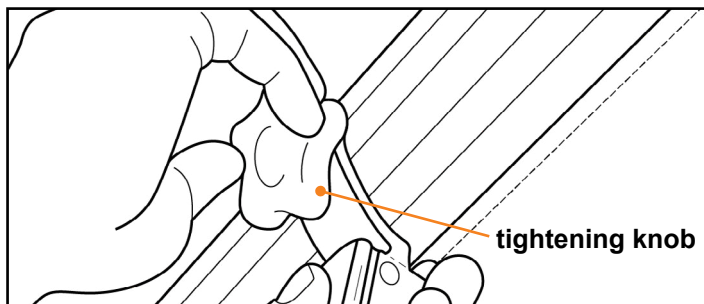


Fig.49



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