



BY  **LIPPERT**

2000X SERIES AWNING OEM INSTALLATION MANUAL

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Introduction

The Solera® 2000X Series Awning features an internal motor to steadily operate the awning. The awning can come equipped with optional Serenity LED lights.

NOTE: The openings on awning rails, both existing and new installations, need to be measured before proceeding. Openings that are too large could cause fabric detachment from the unit. See Installing the Awning Rail (If Needed) on page 3 for measurement procedure.

For additional support on this product, please visit: <https://support.lci1.com/solera-2000-series-power-awning-standard-edge>

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 instructions provided in this manual may result in death, serious personal injury and/or severe product and property damage, including voiding of the component warranty.

⚠ CAUTION

The "CAUTION" symbol above is a sign that a procedure has a safety risk involved and may cause personal injury, product or property damage if not performed safely and within parameters set forth in this manual.

⚠ CAUTION

Always wear eye protection when performing service, maintenance or installation procedures. Other safety equipment to consider would be hearing protection, gloves and possibly a full face shield, depending on the nature of the task.

⚠ CAUTION

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

Prior to Installation

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 location of backer material.

Resources Required

- 2-3 People, depending on task
- Cordless or electric drill or screw gun
- Appropriate drive bits
- Rivet gun (if needed)
- Screwdriver
- #6 x 1/2" hex head screws
- #10 x 3/4" screws
- #14 x 1 1/4" screws
- Wire cutters/strippers
- Non-permanent method of marking
- Silicone sealant or tape
- Silicone lubricant

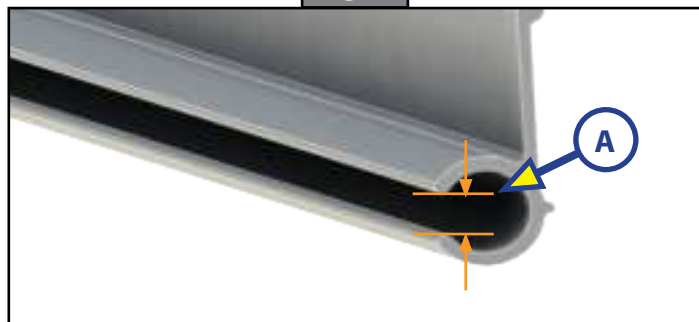
Installation

Awning Rail Installation (If Needed)

NOTE: Awning rail not included.

NOTE: Before installing the awning rail, measure the opening to make sure that the opening is no larger than 3/16" (Fig. 1A). An opening that is too large could lead to fabric detachment from the unit.

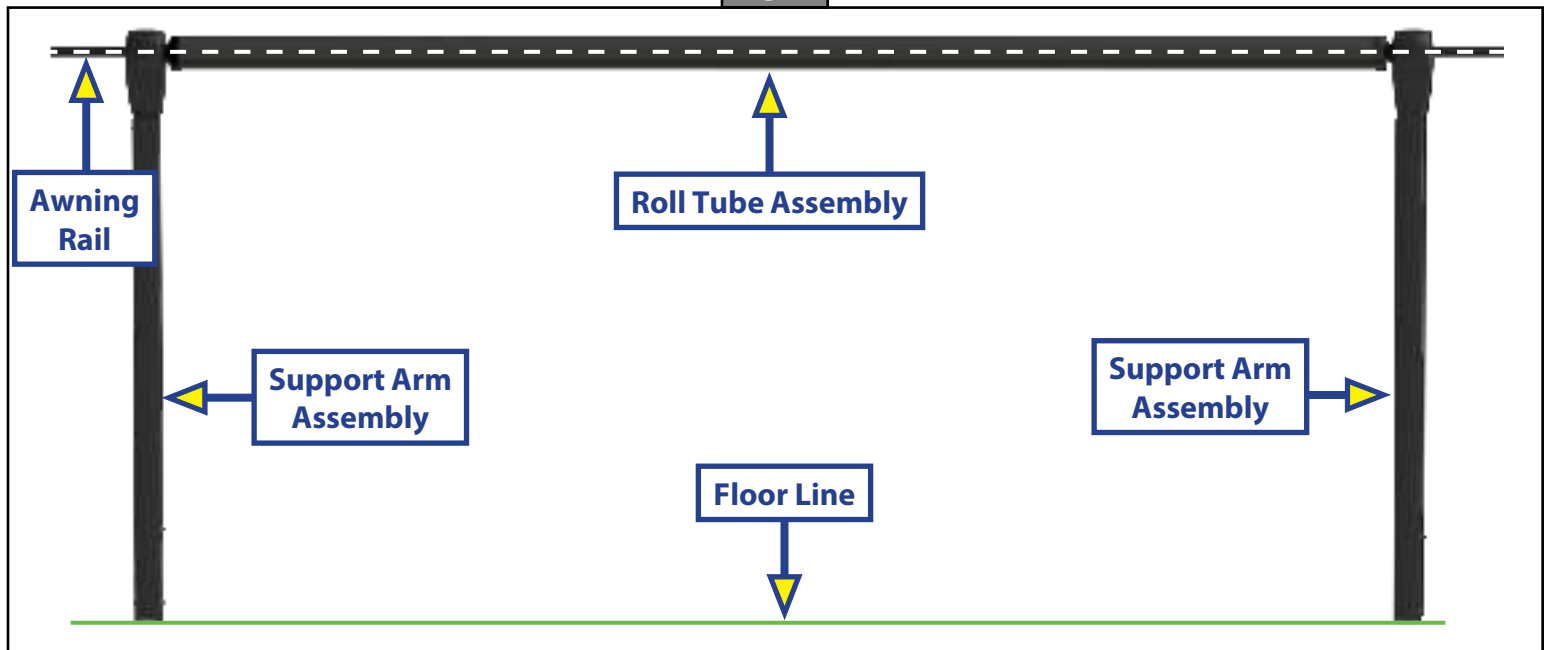
Fig. 1



1. Position the awning rail along the line where the roof and wall meet or:
 - A. For pitched awnings, a minimum of 6" above doors or windows.
 - B. For flat awnings, a minimum of 4" above doors or windows.

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

Fig. 2

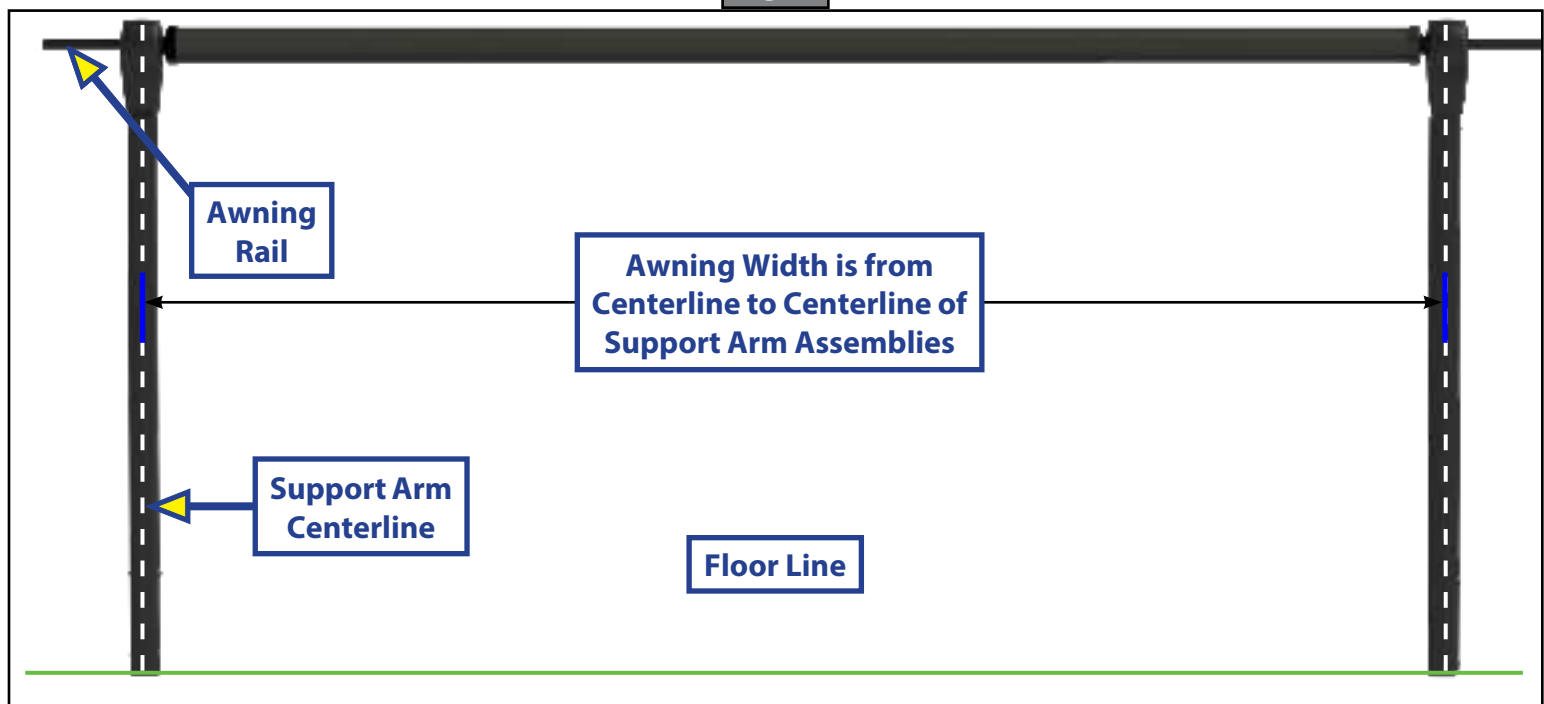


2. After determining the awning rail's proper location, mark its position with a non-permanent method of marking.
3. Seal the back of the awning rail with silicone sealant or tape.
4. Align the awning rail on the wall and secure with #10 x $\frac{3}{4}$ " screws, using all fastener holes.

Awning Installation

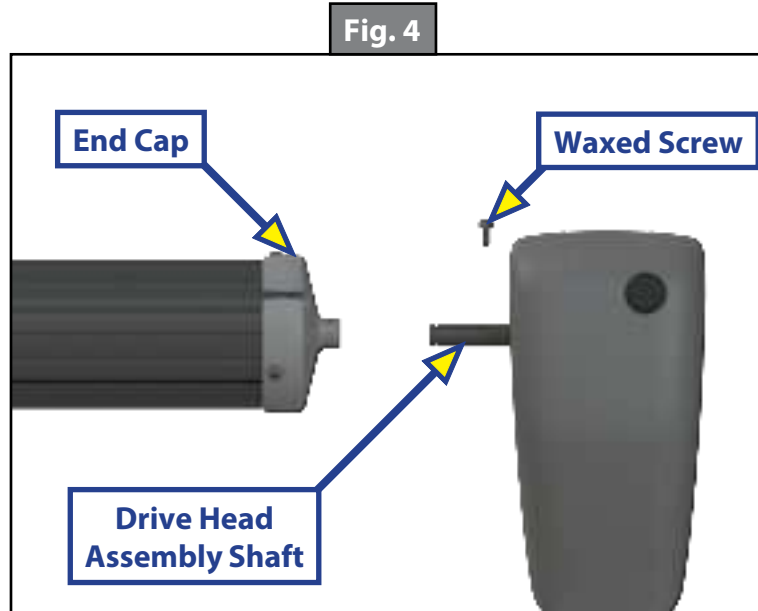
1. On the awning rail, mark the position of the centerlines of the support arm assemblies. Make sure that the support arm assemblies will not interfere with any lights, vents or other obstructions.
2. Using a non-permanent method of marking, mark a perpendicular line from the awning rail down to the floor line. This is the centerline of the support arm assembly (Fig. 3).

Fig. 3

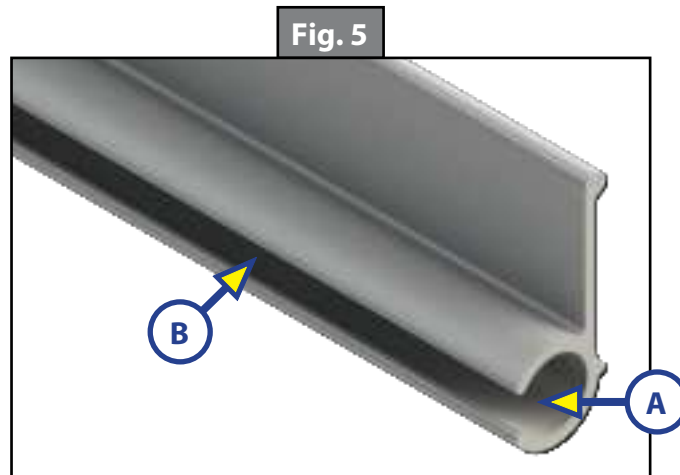


3. Insert the drive head assembly shaft into the end cap (Fig. 4).
 - A. Align the holes and secure with waxed screw.
 - B. Repeat process for idler head assembly at opposite end of roll tube.

NOTE: Keep the head of the waxed screw $\frac{1}{8}$ " from being fully fastened to avoid compromising the structural integrity of the waxed screw.



4. Use a screwdriver to spread open either end of the awning rail channel (Fig. 5A). See Awning Rail Installation on page 3 for measurement procedure to ensure awning rail channel opening is not too large.
5. To protect the fabric from damage during installation, file any sharp edges or burrs from the awning rail channel (Fig. 5B).



6. Use silicone lubricant and spray the inside of the awning rail channel (Fig. 5B).
7. Remove the tape from the fabric. Unroll a small portion of fabric.

NOTE: The next steps 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.

8. Slide the polycord into the awning rail channel and walk the support arm assemblies and fabric down

CAUTION

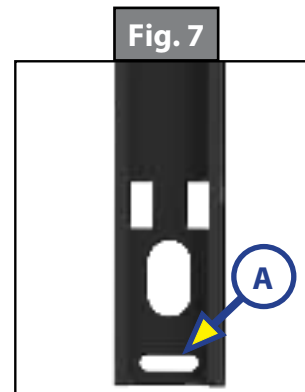
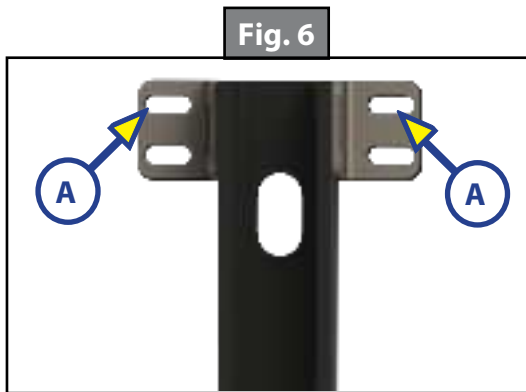
Failure to mount the support arm assembly tight to the underside of the awning rail will result in failure of the awning to close properly.

the awning rail channel until the support arm assemblies are in line with the centerline marks.

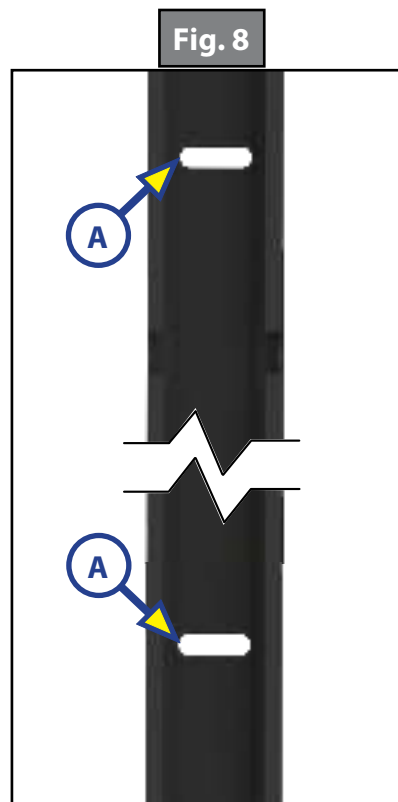
9. Lift the support arm assembly up against the bottom of the awning rail and attach it to the side of the unit with two #14 x 1 1/4" screws at the top (Fig. 6A) and one screw at the bottom (Fig. 7A).

NOTE: Make sure the awning assembly is square on the unit prior to mounting the bottom screw.

NOTE: Three rivets with 3/16" grip range can be used in place of the two middle and one lower screws for laminated walls.



10. Repeat step 9 for the other side.
11. Cut the zip ties and connect the wires from the drive head assembly to a drill battery and run the awning half way out.
 - C. Install the remaining two #14 x 1 1/4" screws in the two screw slots in the center portion of the awning assembly (Fig. 8A). Repeat for the other side.



Securing the Fabric

Secure the fabric to the awning rail using **ONE** of the two options listed below. In option 1 the screw will go through the fabric, awning rail, and polycord, while in option 2, the screw will only go through the awning rail and polycord.

Option 1

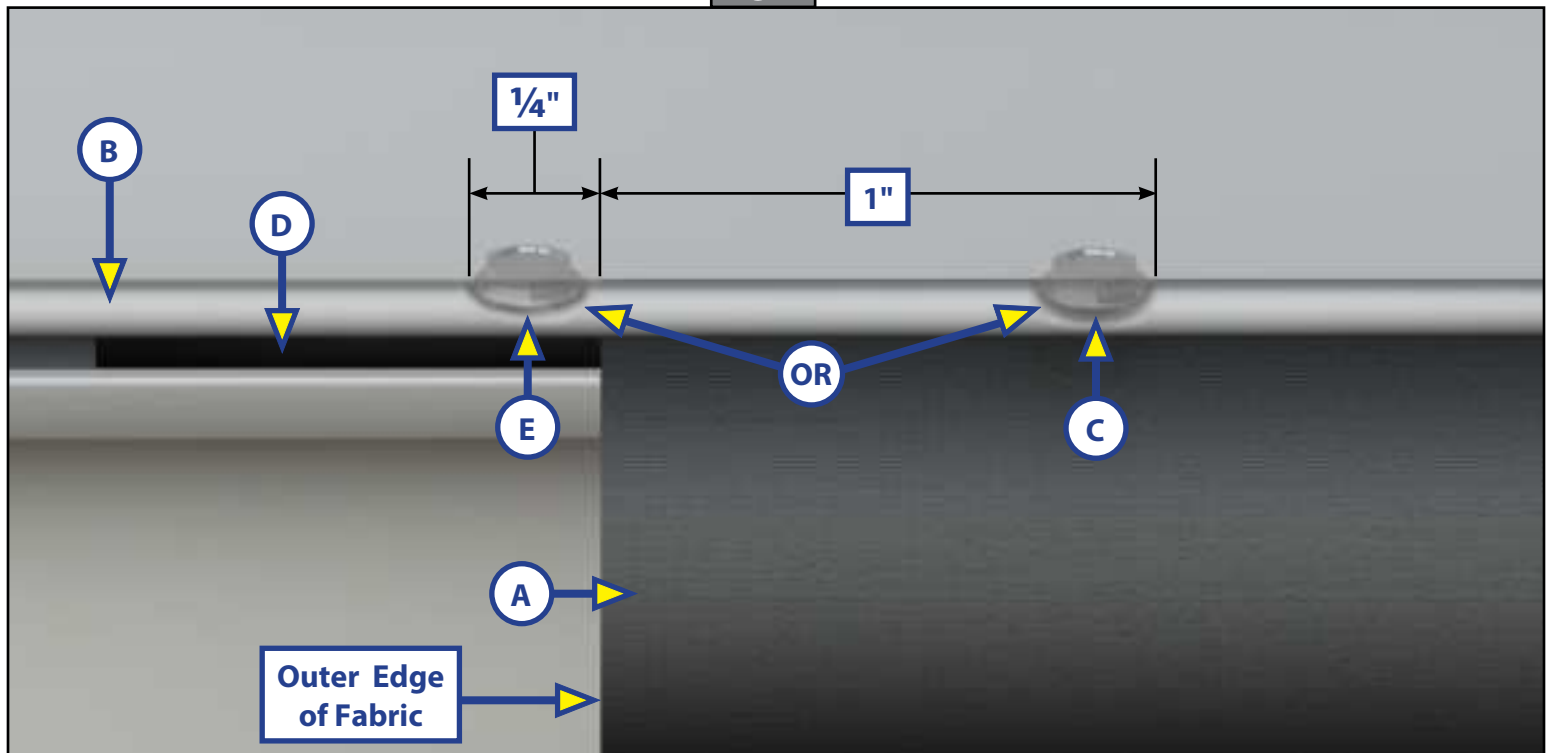
Secure the fabric (Fig. 9A) in the awning rail (Fig. 9B) no more than 1" inside the edge of the fabric on both ends using an OEM supplied #6 x 1/2" hex head screw (Fig. 9C). Install the screw (Fig. 9C) down through the awning rail (Fig. 9B) into the fabric (Fig. 9A) and the polycord (Fig. 9D).

Option 2

Secure the fabric (Fig. 9A) in the awning rail (Fig. 9B) no more than 1/4" outside the edge of the fabric on both ends using an OEM supplied #6 x 1/2" hex head screw (Fig. 9E). Install the screw (Fig. 9E) down through the awning rail (Fig. 9B) and polycord (Fig. 9D).

NOTE: When choosing option 2 for installation, polycord **MUST** extend past the fabric more than 1/4" to allow it to be secured by the screw, and screw must fully penetrate and secure polycord when installed.

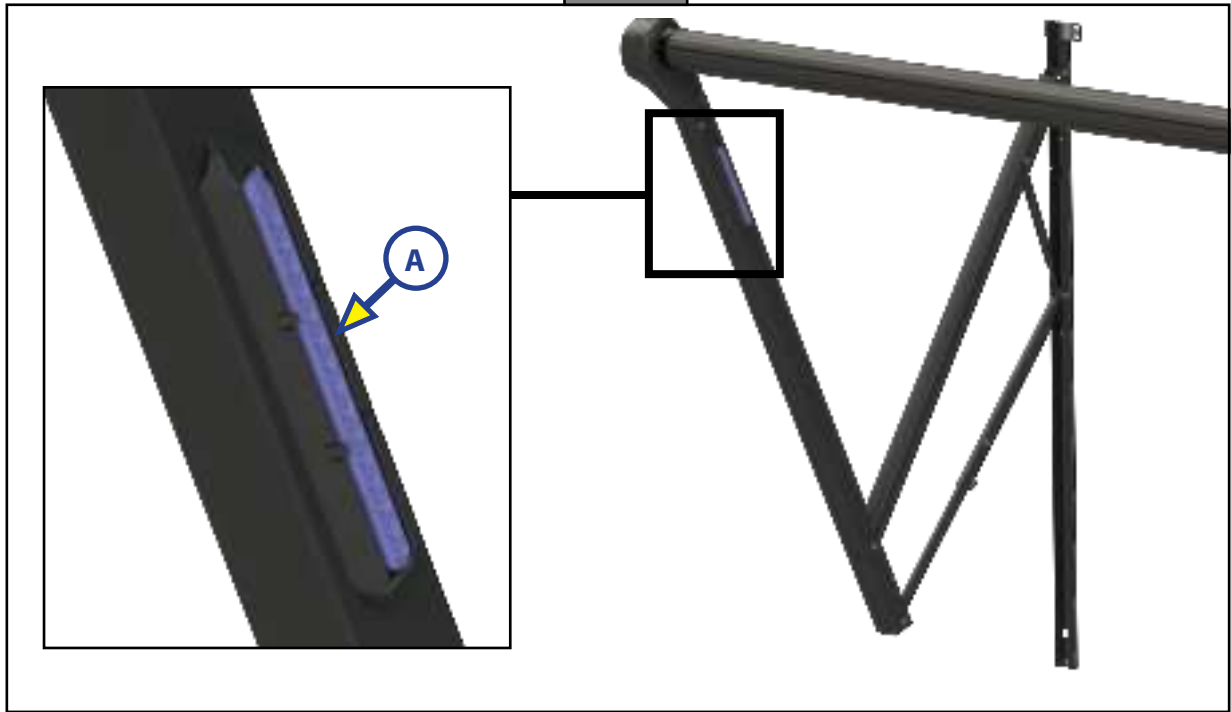
Fig. 9



Solera Serenity LED Lights Installation - Optional

The Solera Serenity LED Lights (Fig. 10A) come pre-installed on specifically-fitted support arms. Installation also requires the proper fabric with an LED wire welded into the fabric at the base. The Solera Awning with Serenity must be installed prior to wiring the Solera Serenity LED lights.

Fig. 10



1. Connect the LED wires on the idler arm to the wire welded into the awning fabric.
2. Connect the other end of the wire welded into the fabric to the drive arm Serenity LED wire and connect both to the power source.
3. A 3 amp fuse that meets or exceeds RVIA standards **MUST** be installed in-line to protect the Serenity LED lights wiring.
4. Connect the LED power wire to the unit's power source. Make sure the black wire is connected to a ground and the red wire is connected to a positive 12V DC power source.

Seal Wall Penetrations

1. Seal all fastener locations and wire penetrations with silicone sealant to protect against water intrusion (Fig. 11).

Fig. 11



Awning Wiring

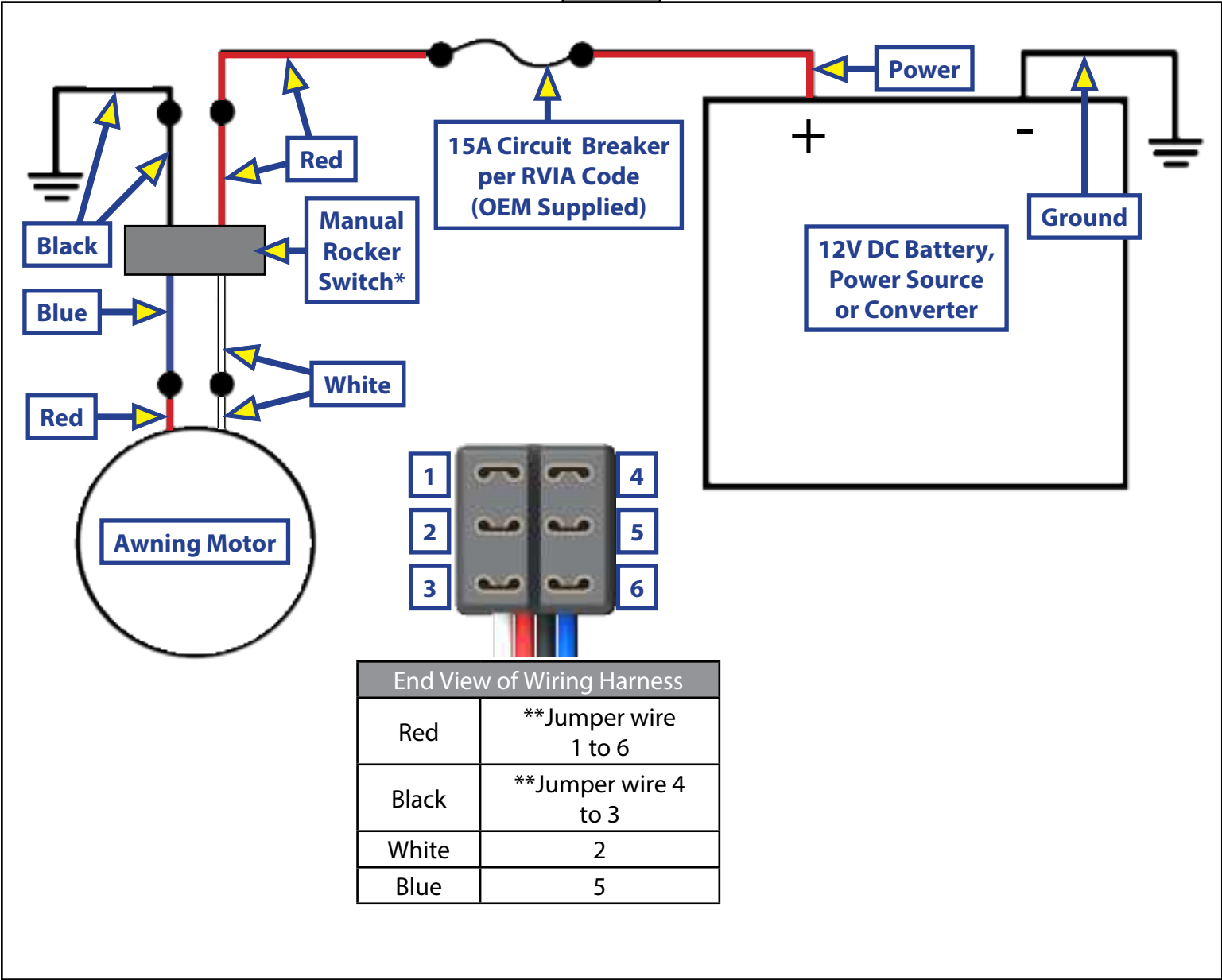
The Solera X Series Awning motors come stock with an internal 6A auto reset breaker. If this breaker trips, it will take approximately 30 seconds to reset. Lippert recommends the awning be wired into a 15A circuit breaker. All wire shall be 14 AWG or higher as necessary to provide 11.5V minimum at all times to the Lippert-supplied power cable connection.

- 1. Pull the wires from the unit through the support arm assembly. These wires may be located at the bottom or the top of the support arm assembly.
- 2. Connect wiring from the unit to the switch and the awning drive head per the wiring diagram (Fig. 12).
- 3. Check the switch. If the awning is running in reverse of what the switch indicates, reverse the wires.

Wiring Diagram

*Wire colors may vary depending on what switch is used.
Wire colors shown reference using a Lippert Rocker Switch.

Fig. 12



**Jumper wires are internal



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