



SOLERA® POWER AWNING XL

OEM INSTALLATION MANUAL

L I P P E R T
C O M P O N E N T S®

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System Information

The Solera® Power Awning XL features an internal motor to steadily operate the awning. Additionally, the pitch arm assembly allows for rain dump and adjustable pitch features. The pitch arm assembly also provides added stability.

Safety



This manual provides operational procedures for Solera Power Awning XL. Operating the Solera Power Awning XL in any other manner than described may result in personal injury, damage to the unit or the awning assembly as well as voiding the Lippert Components Limited Warranty.

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

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.

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
- #12 1 1/4" screws
- #14 x 1 1/4" screws
- 3/16" grip range rivets (Optional)
- Wire cutters/Strippers
- Non-permanent method of marking
- Silicone sealant or tape
- Silicone lubricant

Installation

Awning Rail Installation (If Needed)

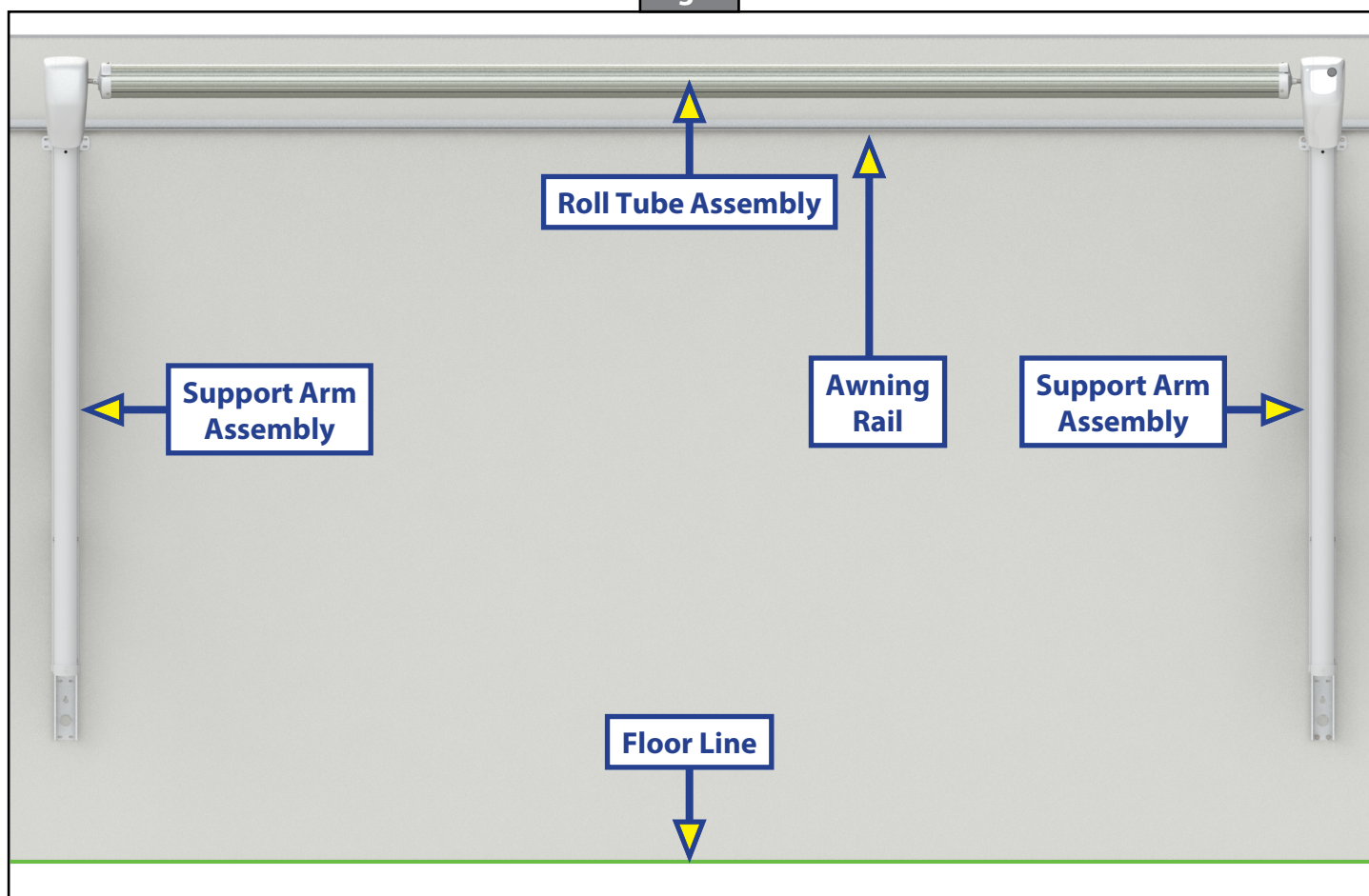
NOTE: Awning rail not included.

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 ½" above doors or windows

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

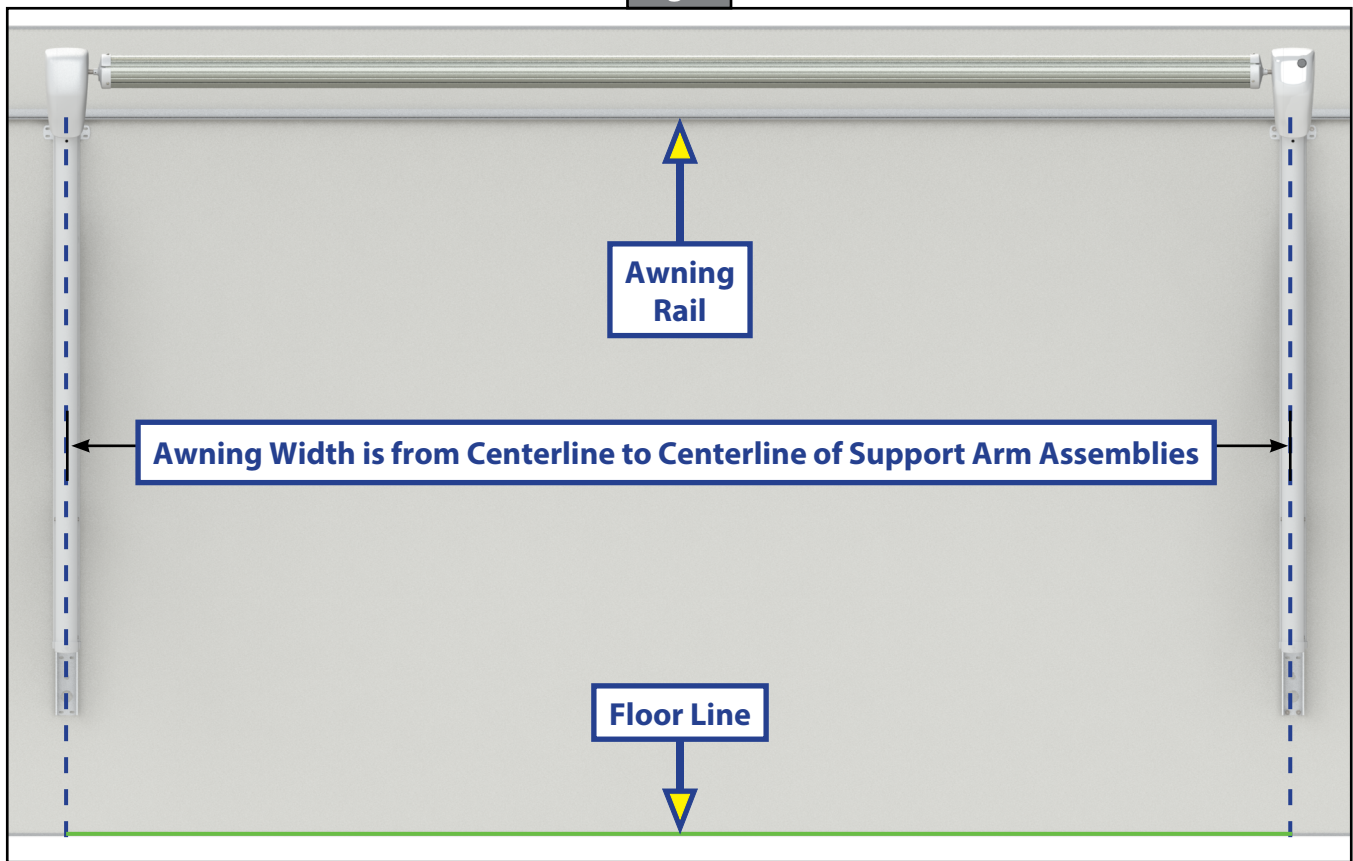
Fig. 1



Awning Installation

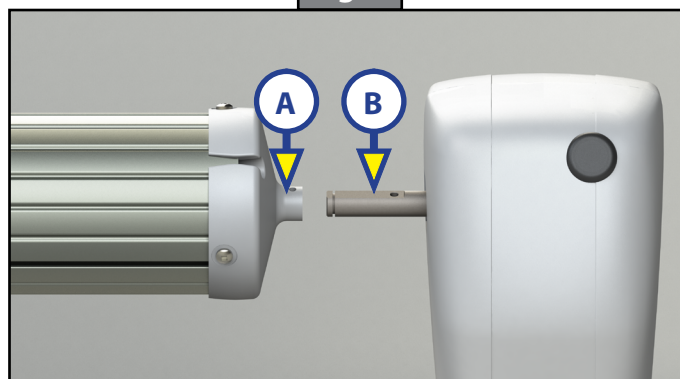
1. On the awning rail, mark the position of the centerlines of the support arm assemblies. Make sure that the support arm assemblies will not interfere with any lights, vents or other obstructions.
2. Using a non-permanent method of marking, mark a perpendicular line from the awning rail down to the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

Fig. 2



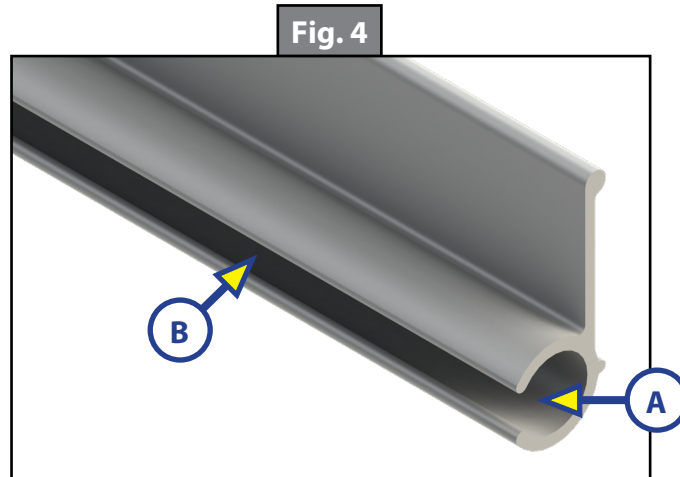
3. Insert the drive head assembly shaft (Fig. 3B) into end cap (Fig. 3A). Align the holes and secure with waxed screw. Repeat process for idler head assembly at opposite end of roll tube.

Fig. 3



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

4. Use a screwdriver to spread open either end of the awning rail channel (Fig. 4A).
5. To protect the fabric from damage during installation, file any sharp edges or burrs from the awning rail channel (Fig. 4B).



6. Use silicone lubricant and spray the inside of the awning rail channel (Fig. 4B).
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.

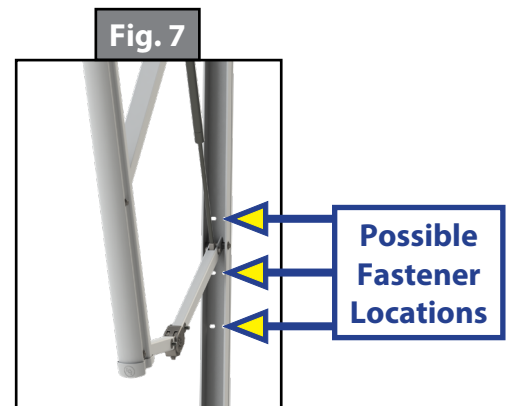
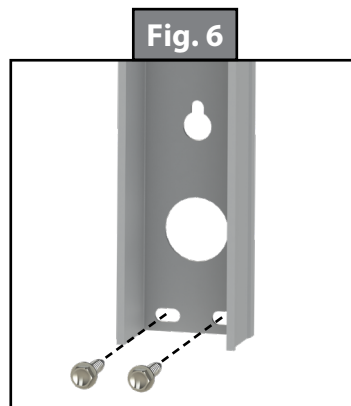
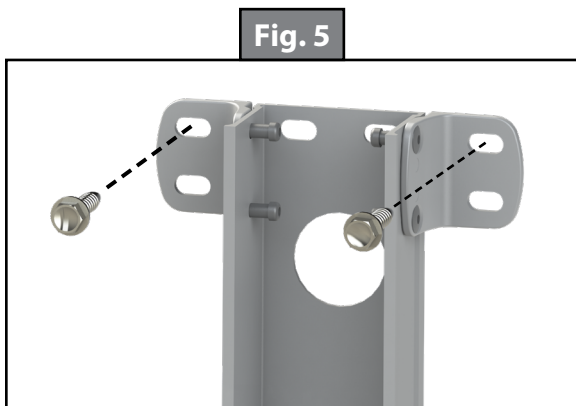
8. Slide the polycord into the awning rail channel and walk the support arm assemblies and fabric down the awning rail channel until the support arm assemblies are in line with the centerline marks.
9. Lift the support arm assembly up and secure by setting the awning assembly to the desired height and attaching it to the side of the unit with two #14 x 1 1/4" screws at the top (Fig. 5) and two #14 x 1 1/4" screws at the bottom (Fig. 6).

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

NOTE: Best practice for setting the awning height is to push the top of the support arm assemblies up to be flush with the bottom of the awning rail. The awning height can be adjusted lower if desired, but make sure that the distance from the awning rail to the top of the support arm assemblies is consistent at both ends of the awning.

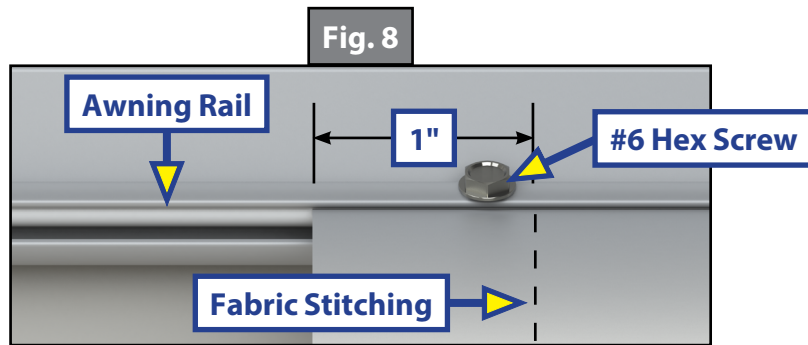
NOTE: Four rivets with 3/16" grip range can be used in place of the two middle and two lower screws on laminated walls.

10. Cut the zip ties and connect the wires from the drive head assembly to a power source and run the awning half way out.
 - A. Remove the wire cover to expose the fastening points.
 - B. Install the remaining two (2) #14 x 1 1/4" screws at any of the three locations shown (Fig. 7) in the center of the support arm.
11. Repeat this process for the opposite side of the awning assembly.



Securing the Fabric

1. Extend and retract the awning several times to make sure the fabric is square on the roll tube.
2. Secure the fabric in the awning rail no more than 1" inside the edge of the fabric on both ends using a #6 x 1/2" hex head screw. Install the screw down through the awning rail into the fabric and the polycord (Fig. 8).



Awning Wiring

Solera Power Awning XL motors come stock with an internal 6A auto reset breaker. If this breaker trips, it will take approximately 30 seconds to reset. LCI 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 LCI-supplied power cable connection.

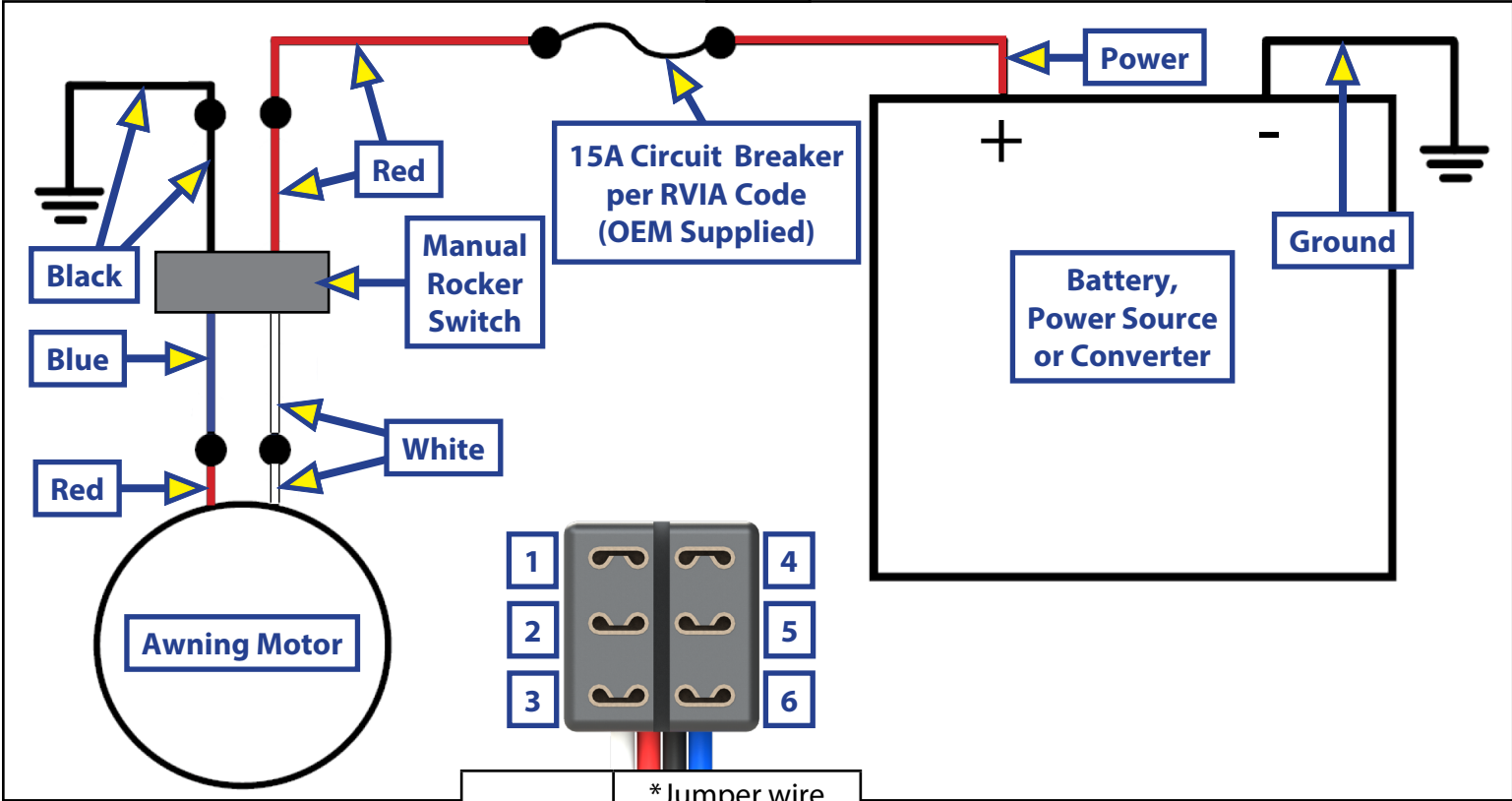
1. Pull the wires from the unit through the support arm assembly. These wires may be located at the bottom or the top of the support arm assembly.
2. Connect wiring from the unit to the switch and the awning drive head per the wiring diagram (Fig. 9).

NOTE: Check the switch. If the awning is running in reverse of what the switch indicates, reverse the wires.

NOTE: To prevent pinching of the wires, make sure all wires are routed on the outside of the pin that secures the pitch arm to the mount arm (Fig. 10).

Wiring Diagram

Fig. 9



Red	*Jumper wire 1 to 6
Black	*Jumper wire 4 to 3
White	2
Blue	5

*Jumper wires are internal

Fig. 10

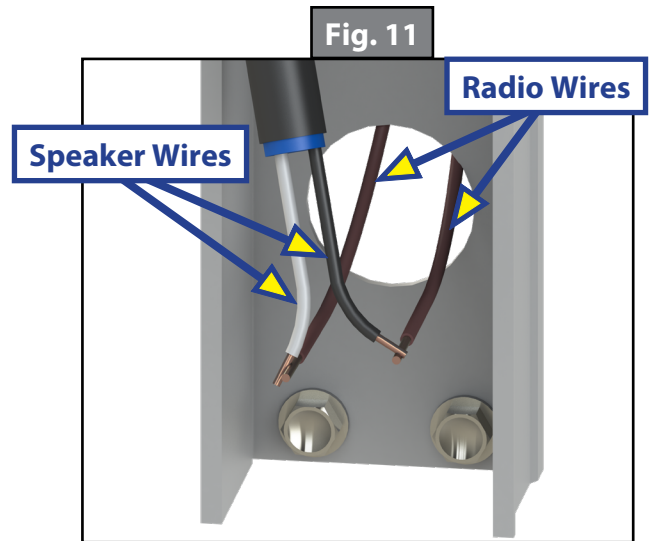


Installation with Speakers — Option

1. Remove wire covers on both mount arms.
2. At both support arm assemblies there will be a wire labeled "speakers." Connect these to the unit's radio wires (Fig. 11).

NOTE: Speaker wire is indicated with blue insulation on the wiring.

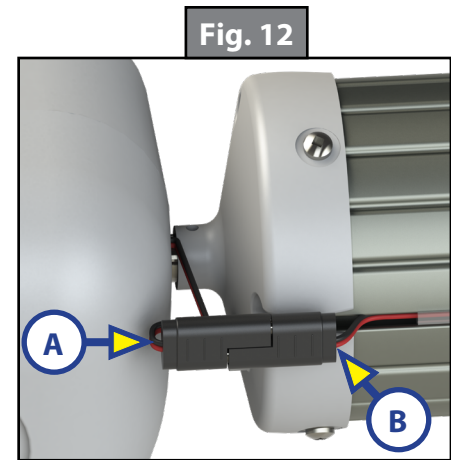
NOTE: On the drive side, the speaker wire will be connected at the same location on the support arm assembly as the power wire for the motor. On the idler side, the speaker wire may be connected at the top or bottom of the support arm assembly.



Installation with LED — Options

LED Roll Tube Installation

1. Remove the wire covers on the idler side mount arm.
2. Make sure to align the idler head's LED light wires (Fig. 12A) with the roll tube's LED light (Fig. 12B).
3. Connect the plug from the idler head (Fig. 12A) to the plug from the LED light (Fig. 12B).
4. Take the LED power wire, that is already fed through the idler leg, and connect it to the desired power wire from the unit.

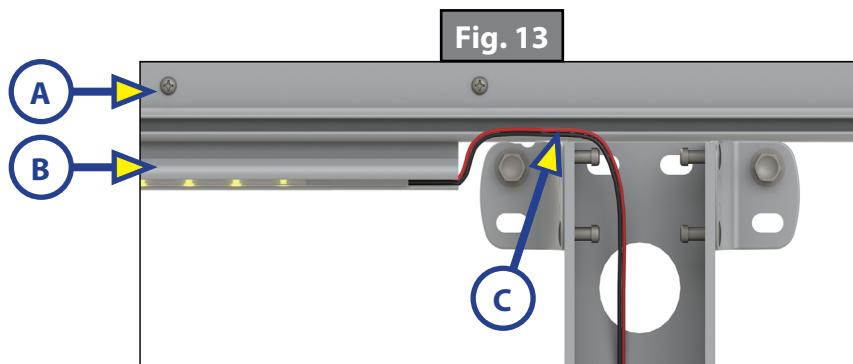


NOTE: Make sure the black wire is connected to a ground and the red wire is connected to a 3 amp maximum fuse, normally located behind the switch, and then to a power source from the unit.

LED Light Rail Installation

NOTE: Solera Power Awning XL must be installed prior to LED Light Rail installation.

1. Seal the back of the LED light rail with silicone sealant or tape.
2. Mount the LED light rail (Fig. 13B) directly below the awning rail (Fig. 13A) and secure to the side of the unit.
3. Remove the wire covers in the drive side mount arm.
4. Route the light wire over the top of the upper brackets on the mount arm and run the light wire down through the support arm assembly in the same manner as the motor wire (Fig. 13C).



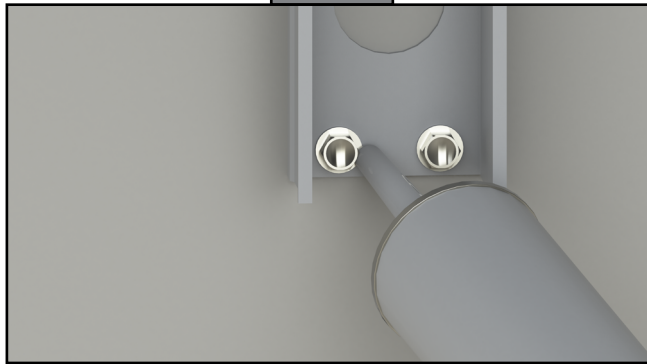
5. Cut the power and ground wires to the desired length and connect to the unit wiring.
 - A. Make sure to connect the red wire on the light side to the power wire on the unit.
 - B. Connect the black wire from the light side to the ground wire from the unit side.

NOTE: The LED light rail must be wired through a 3 amp maximum fused circuit.

Seal Wall Penetrations

1. Seal all fastener locations and wire penetrations with silicone sealant to protect against water intrusion (Fig. 14).
2. Reinstall all wire covers onto the support arm assemblies.

Fig. 14



Adjusting Pitch

The trigger pitch (Fig. 15A) provides two preset pitch angles and an automatic retract when the awning is retracted. Pitch can be set by adjusting the trigger pitch to tip one side of the awning to allow water runoff.

1. Extend the awning to desired position.
2. Choose the side of the awning for optimum shade or convenient water runoff.
3. There are two set positions where the trigger pitch can be set. Press up on the lever (Fig. 16A) of the trigger pitch and push the pitch arm towards the unit until the desired pitch is set to allow for water runoff.
4. Release the lever when a click sound is heard, locking the pitch arm in place.

NOTE: The awning can be retracted without resetting the pitch.

Fig. 15

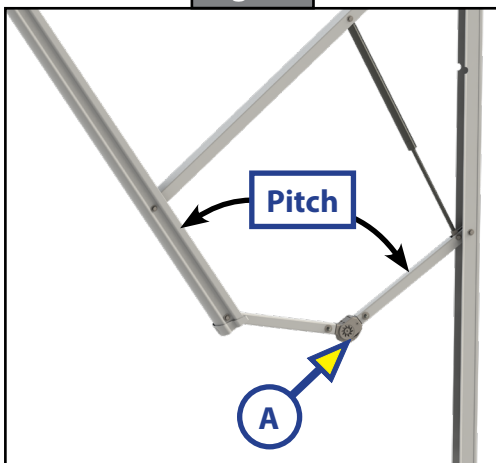
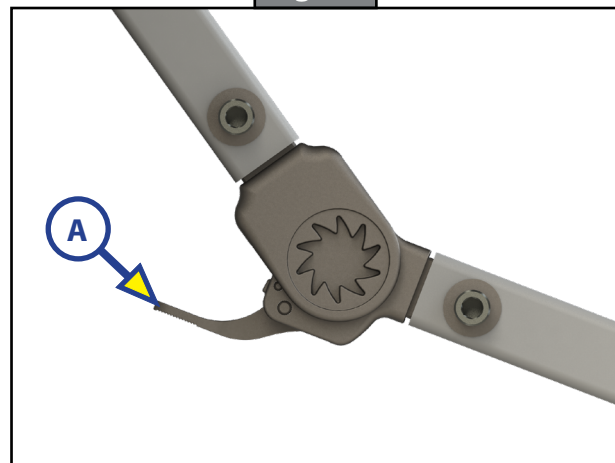


Fig. 16





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