



**SOLERA® POWER AWNING
w/ LED LIGHTS
OEM INSTALLATION MANUAL**

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Safety



This manual provides operation for Solera Power Awning. Operating the Solera Power Awning 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

NOTE: All screws supporting awning assembly must have a backer within the structure of the wall of the unit.

Resources Required

- 1 - 3 people depending on procedure
- Cordless or Electric Drill or Screw Gun
- Appropriate Bits
- Rivet Gun

Awning Installation

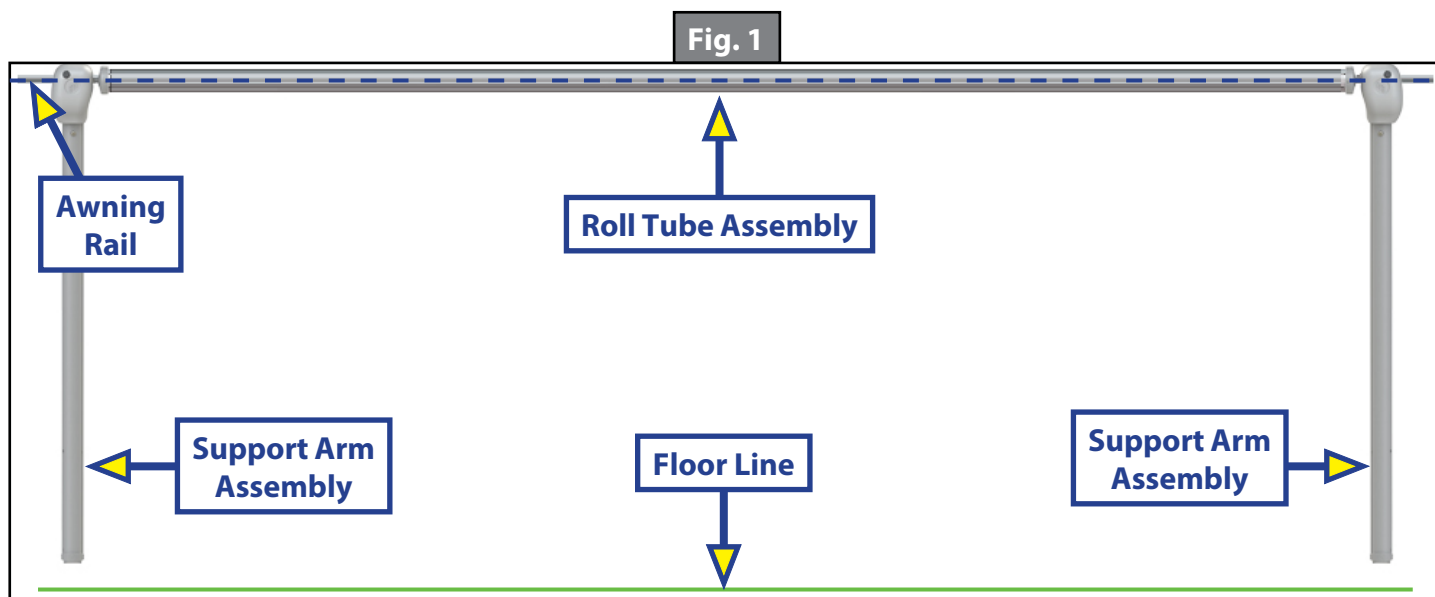
Awning Rail Installation (If Needed)

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" 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.

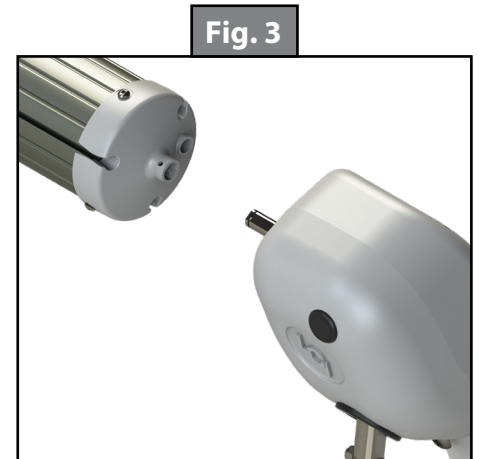
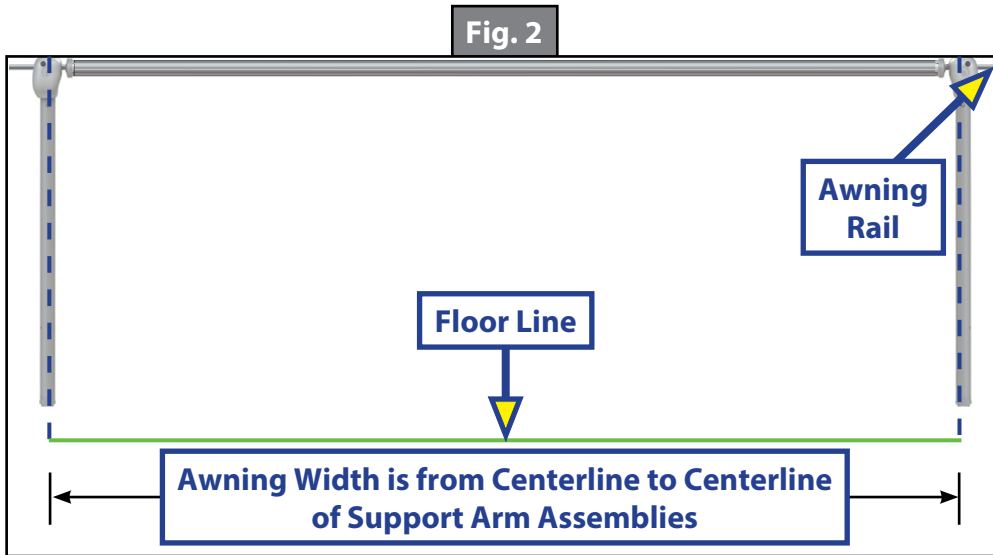


3. Seal the back of the awning rail with silicone sealant or tape.
4. Align the awning rail on the wall and secure with #10 x $\frac{3}{4}$ " screws, using all fastener holes.

Awning Support Arm 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 obstruction.
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).
3. Insert the drive head assembly shaft into the end cap (Fig. 3). Align the holes and secure with waxed screw. Repeat process for idler head assembly at other end.

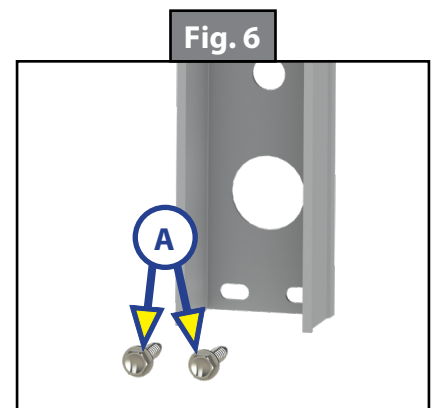
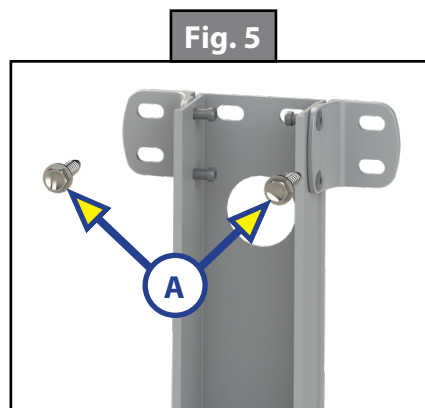
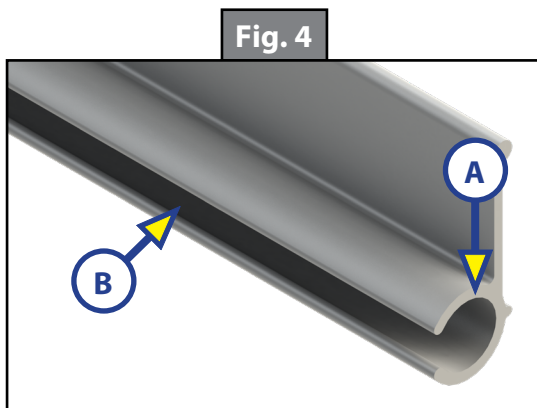
NOTE: Keep the head of the wax screw $\frac{1}{8}$ " from fastener to avoid compromising the structural integrity of the wax screw.



4. Use a screwdriver to spread open either end of the awning rail channel on the installation side (Fig. 4A).
5. To protect the fabric from damage during installation, file any sharp edges or burrs from the awning rail channel.
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 made previously.
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 $1\frac{1}{4}$ " screws at the top (Fig. 5A) and two #14 $1\frac{1}{4}$ " screws at the bottom (Fig. 6A).

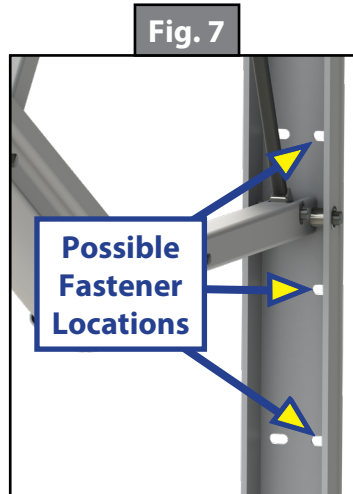


NOTE: Best practice for setting the awning height is to push the top of the support arm assemblies up to be flush with the bottom of the awning rail. The awning height can be adjusted lower if desired, but ensure that the distance from the awning rail to the top of the support arm assemblies is consistent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

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

NOTE: Four rivets with $\frac{3}{16}$ " 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. Remove the wire cover to expose the fastening points. Install the remaining two #14 x $1\frac{1}{4}$ " screws at any of the three locations shown (Fig. 7) in the center of the support arm. Repeat this process for the other end of the awning assembly.



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 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.

LED Installation

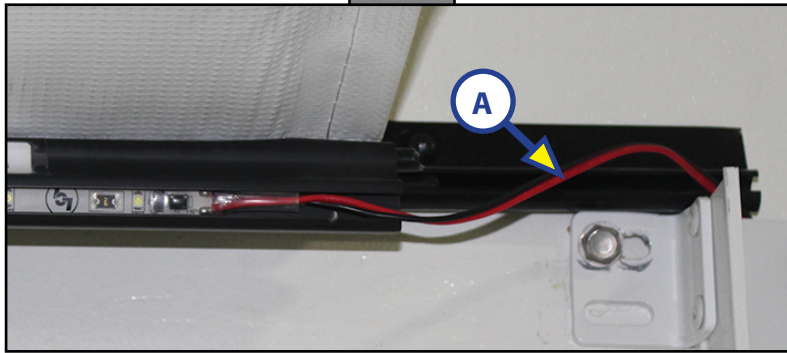
Fabric LED (Fabled) Installation

NOTE: Awning **MUST** be extended prior to running LED power wire down the drive mount arm.

1. Depending on top wire or bottom wire installation, remove the wire covers in the drive mount arm.
2. If bottom installation, take the LED power wire (Fig. 8A) from the light track and run it down the drive arm. Make sure to run the wires over the center pin of the drive mount arm.
3. 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 12V DC power source.
4. Connect an appropriate-size fuse to protect all wiring going to the light, that meets or exceeds RVIA standards.
5. Reinstall wire covers in the drive mount arm.

NOTE: As of June 2018, LED lights now come equipped with a built-in resettable fuse.

Fig. 8



Tapered Tube Light (TTL) LED Installation

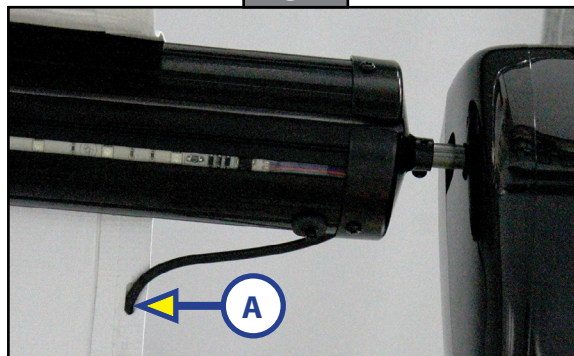
NOTE: Awning **MUST** be extended prior to running LED power wire down the drive mount arm.

The awning fabric has a power wire (Fig. 9A) sewn into the hem. The power wire is connected to the LED light in the roll tube prior to the end cap being installed on the roll tube by LCI.

1. Depending on top wire or bottom wire installation, remove the wire covers in the drive mount arm.
2. If bottom installation, take the LED power wire (Fig. 9A) sewn into the hem of the fabric and run it down the drive arm. Make sure to run the wires over the center pin of the drive mount arm.
3. 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 12V DC power source.
4. Connect an appropriate-size fuse to protect all wiring going to the light, that meets or exceeds RVIA standards.
5. Reinstall wire covers in the drive mount arm.

NOTE: As of June 2018, LED lights now come equipped with a built-in resettable fuse.

Fig. 9



RGB LED Installation

NOTE: Awning MUST be extended prior to running LED power wire down the drive mount arm.

The awning fabric has a power wire (Fig. 9A) sewn into the hem. The power wire is connected to the LED light in the roll tube prior to the end cap being installed on the roll tube by LCI.

1. Depending on top wire or bottom wire installation, remove the wire covers in the drive mount arm.
2. If bottom installation, take the LED power wire (Fig. 9A) sewn into the hem of the fabric and run it down the drive arm. Make sure to run the wires over the center pin of the drive mount arm.
3. 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 12V DC power source.
4. Connect an appropriate-size fuse to protect all wiring going to the light, that meets or exceeds RVIA standards.
5. Reinstall wire covers in the drive mount arm.

NOTE: As of June 2018, LED lights now come equipped with a built-in resettable fuse.

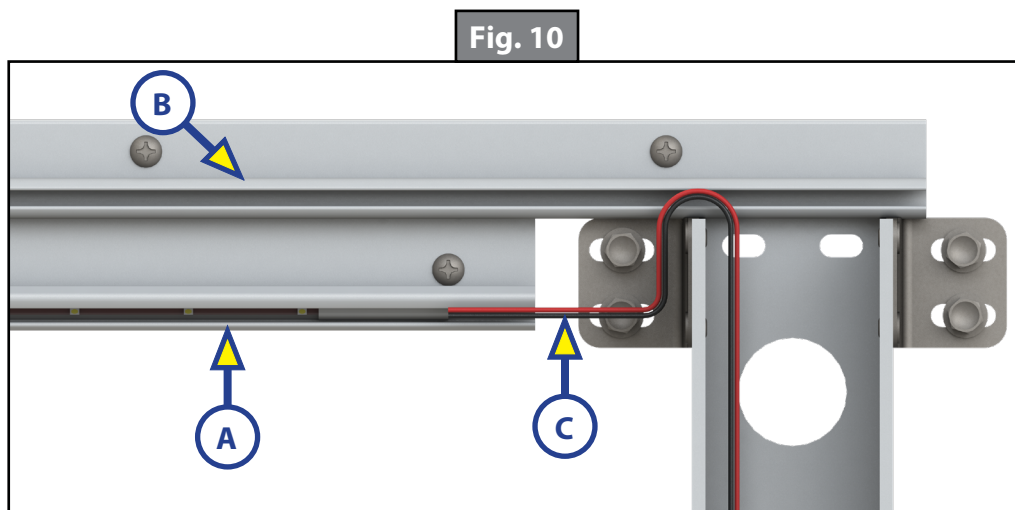
Light Rail LED Installation

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

NOTE: Awning MUST be extended prior to running LED power wire down the drive mount arm.

1. Seal the back of the LED light rail.
2. Mount the LED light rail (Fig. 10A) directly below the awning rail (Fig. 10B) 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. 10C).
5. 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 12V DC power source.
6. Connect an appropriate-size fuse to protect all wiring going to the light, that meets or exceeds RVIA standards.
7. Reinstall wire covers in the drive mount arm.

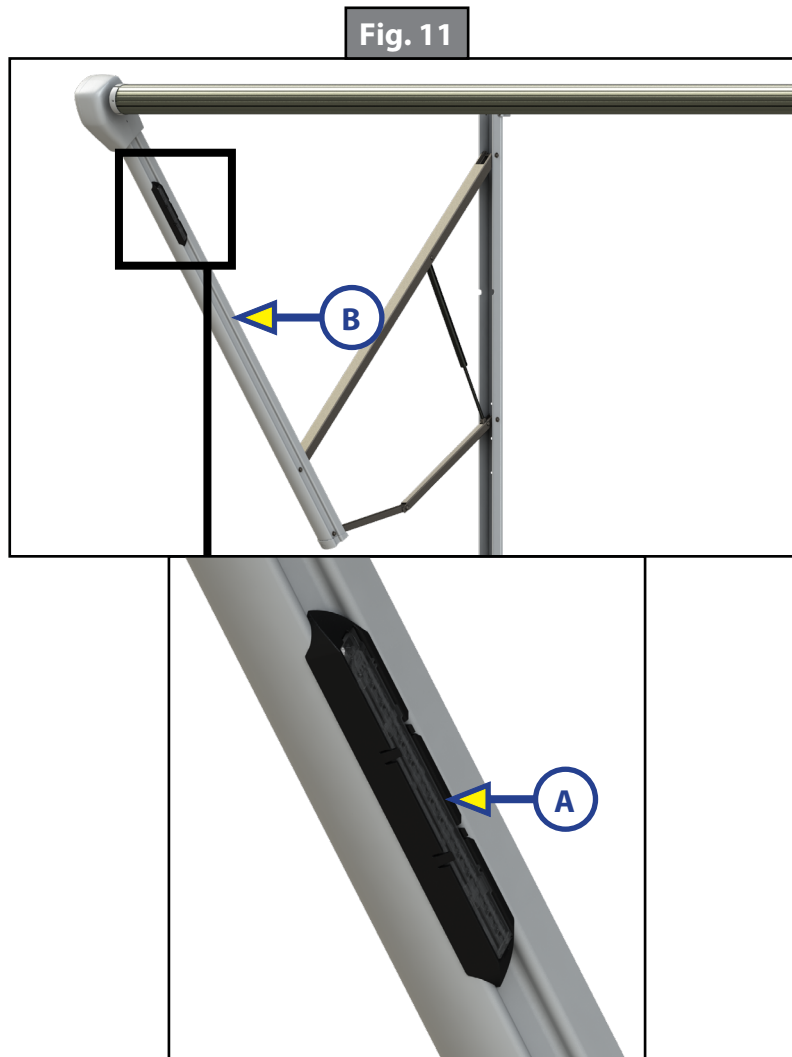
NOTE: As of June 2018, LED lights now come equipped with a built-in resettable fuse.



Solera Serenity LED Installation

NOTE: The Solera Serenity LED (Fig. 11A) comes pre-installed on support arms specifically fitted for it. Installation also requires the proper fabric with an LED welded wire in the fabric at the base. The Solera Power Awning with Serenity must be installed prior to wiring the Solera Serenity LED.

1. Wire the LED wires on the idler arm (Fig. 11B) to the welded wire in the awning fabric and hide the connector behind the wire cover in the top of the wall mount arm. Then connect the other end of the welded wire in the fabric to the drive arm Serenity LED wire and connect both to power source.
2. A 5 amp fuse that meets or exceeds RVIA standards MUST be installed in line to protect the Serenity LED wiring.
3. 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 12V DC power source.



Notes

[illegible]



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