

## AWNINGS

### Purpose

This document outlines removal and replacement of the LED lights on Solera® awnings.

### 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 LCI 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 document may result in death, serious injury, unit damage, or 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 or product and/or property damage if not performed safely and within the parameters set forth in this manual.

#### **CAUTION**

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

### Resources Required

- 1-3 people, depending on task
- Cordless or electric drill or screw gun
- Glue
- Silicone sealant
- Sharp scissors
- Silicone lubricant spray

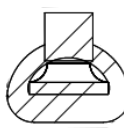
## AWNINGS

### Preparation

#### Verify LED Lights on Awning

Before replacing the LED lights for the Solera awning, it is critical to determine where are the LED lights. This will help determine the necessary replacement lights.

- **FabLED (Fabric LED)** - LED lights that are attached to the polycord on the awning fabric.
- **Roll Tube** - LED lights that are installed in the awning roll tube.
- **Rail/Wall** - LED lights that are applied to the wall of the unit or the rail supporting the awning.

| LED Lights available   |      |                      |                                                                                    |                                                                                      |
|------------------------|------|----------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Part #                 | Size | Description          | Awning Application                                                                 | Profile Cross Section                                                                |
| <a href="#">424322</a> | 15'  | Vista Light LED      | FabLED<br>(Fabric LED)                                                             |   |
| <a href="#">424323</a> | 20'  |                      |                                                                                    |                                                                                      |
| <a href="#">337976</a> | 15'  | Tube LED Light Strip | <ul style="list-style-type: none"> <li>• Roll Tube</li> <li>• Rail/Wall</li> </ul> |  |
| <a href="#">324688</a> | 20'  |                      |                                                                                    |                                                                                      |

**NOTE:** Profile cross sections of LED light strips are shown for reference only and do not indicate actual size of light strip.

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Custom Sizing and Cutting of The LED Strip

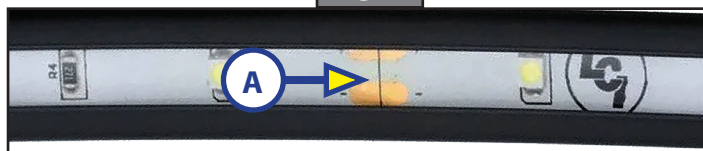
There are two available lengths for most awning fabric LED light strip kits. Measuring from edge to edge on the awning fabric:

- A.** If the awning width is 10'-15,' then the 15' LED light strip kit should be used (424322 or 337976).
- B.** If the awning width is 16' - 21,' the 21' awning LED light kit should be used (424323 or 324688).

If a custom size is necessary, follow the steps below.

1. Measure from edge to edge the awning width.
2. Use that measurement to determine the appropriate size needed and whether or not to customize the length of the LED light strip.
3. If cutting is necessary:
  - A.** Make sure to start the measurement from the end where the wires attach on the LED light strip.
  - B.** Use a pair of sharp scissors to cut LED lights along the black line at the nearest copper cut tab (Fig.1A).

Fig. 1

**⚠ WARNING**

**If cutting the LED light strip is required, it is very important to cut only on the given cut line at the copper cut tabs (Fig.1A).**

4. Seal the freshly exposed LED end with a dab of silicone along the edge and let dry.

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### FabLED (Fabric LED)

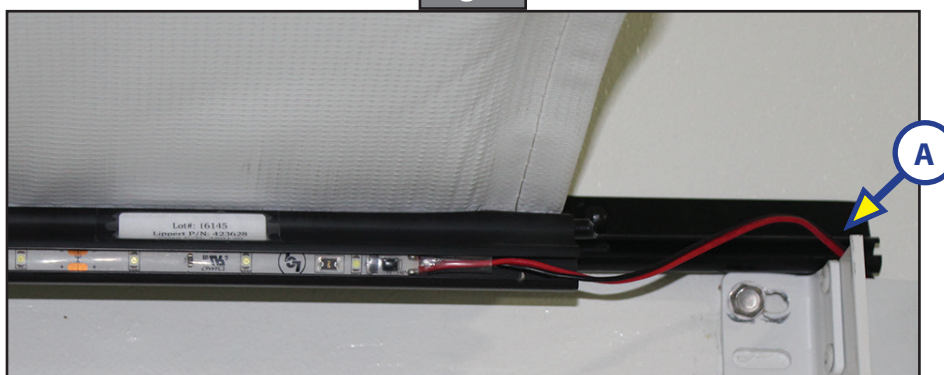
#### Removing the Old LED Light Strip

**NOTE:** Prior to procedure it may be helpful to use a flat head screw driver to pry open the aluminum LED light rail and spray along the polycord with a silicone lubricant to make the replacement easier.

1. Fully extend awning to easily access the polycord on the awning fabric.
2. Turn off power in unit and remove wire covers on the drive mount arm (Fig. 2A).

**NOTE:** Wiring from the unit's power through the wall to the awning may be at the top or the bottom of the drive arm mount.

Fig. 2

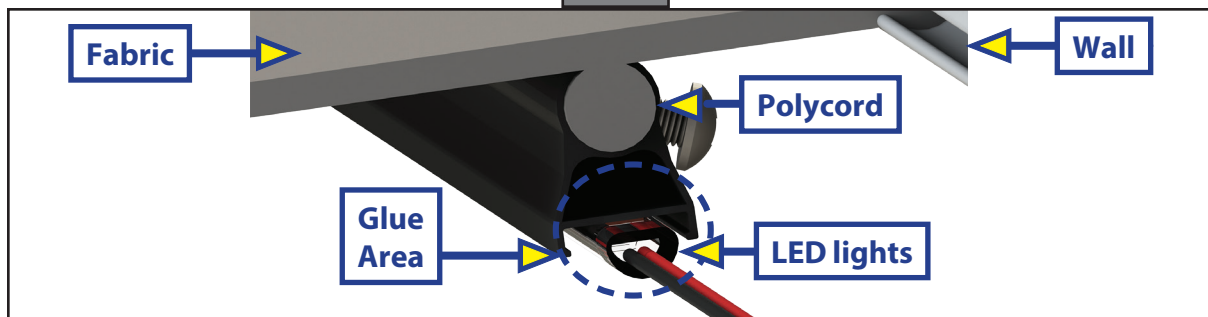


### ⚠ WARNING

**Make sure the light switch inside the unit is in the off position to prevent electrical damage and/or personal harm.**

3. Disconnect the LED wiring from unit wiring.
4. Remove the glue at both ends of the light track holding existing LED light strip in place (Fig. 3).

Fig. 3



5. Slide the LED light strip completely out from the awning fabric polycord.

**NOTE:** Replacing all the wiring to the switch and power source, and replacing the switch should not be necessary.

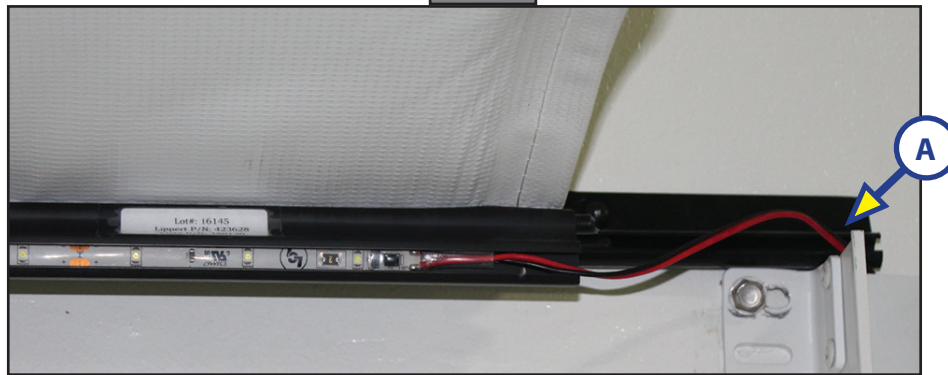
6. To measure and cut LED light strip, refer to Custom Sizing and Cutting of the LED Strip section.

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### Replacing with The New LED Light Strip

1. Spray silicone lubricant down the track so it is easier to slide the new LED light strip into place.
2. Slide new LED light strip completely down the awning fabric polycord. Start with the end of the strip that is not wired, and slide toward the direction of the idler arm. The wires will need to remain on the drive mount arm side.
3. Splice and connect the new LED light strip wires into the unit's harness where the original wires were connected (Fig. 4A).

Fig. 4



**NOTE:** Make sure the red wire is connected to power and black wire is connected to ground.

4. Reinstall wire covers into the drive mount arm.
5. Apply either silicone or hot glue into the ends of track to hold the light in place.

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

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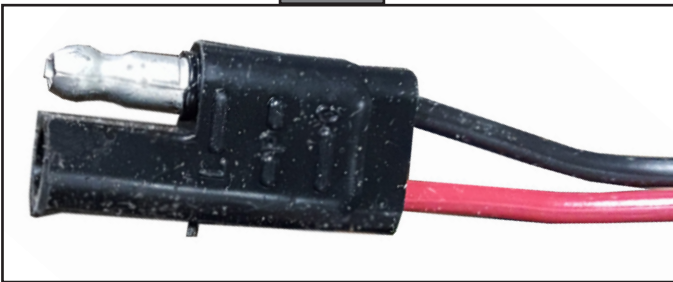
### LED Roll Tube

#### Wiring Harness Variants

In mid-to-late 2015, the Solera Awning LED light connectors (for lights equipped in the roll tube or the lighted fabric applications) were changed as a product improvement. This change was made on a running basis at the manufacturer's level.

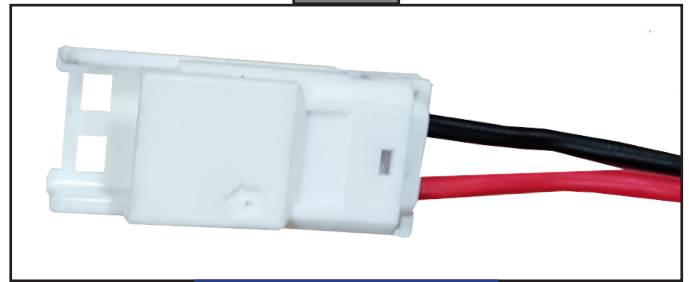
The current style connector is black (Fig.5), and the original style connector was white (Fig.6). The two connectors are not compatible with each other.

Fig. 5



Current

Fig. 6

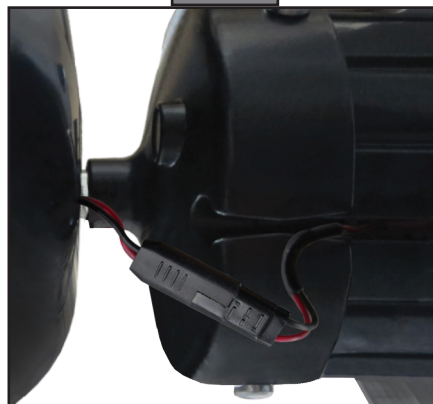


Original (Obsolete)

#### LED Roll Tube Idler Head Install

- If the unit has the black connector (Fig.5) on the end of the LED lights, only new lights will be needed. The new lights will come with the black connector that will match the connector on the idler head on the awning assembly (Fig.7).
- If the unit has a white connector (Fig.6) on the LED lights, new lights and a new idler head assembly will be needed. The new lights will come with the black connector which is not compatible with the white connector. The new idler head will have the black connector to match the black connector on the new lights (Fig. 7).

Fig. 7



## AWNINGS

Removing LED Lights From Roll Tube

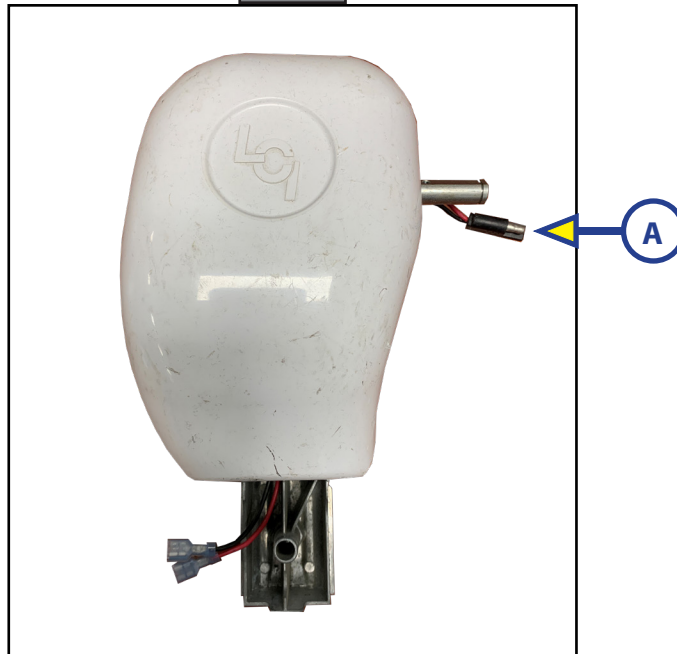
**NOTE:** This procedure will be necessary for both the current (black connector) or original (white connector) style, as the lights will need to be removed and replaced with the current (black connector) style.

1. Fully extend awning to easily access the roll tube.
2. Turn off power in unit .

**⚠ WARNING**

**Make sure the light switch inside the unit is in the off position to prevent electrical damage and/or personal injury.**

3. Disconnect the LED light from the idler head at the connectors (Fig. 8A).
4. Remove the glue at both ends of the light track holding the old LED light strip in place, and slide out from the idler end.

**Fig. 8**

**NOTE:** Please be aware of what procedure will need to to be completed next:

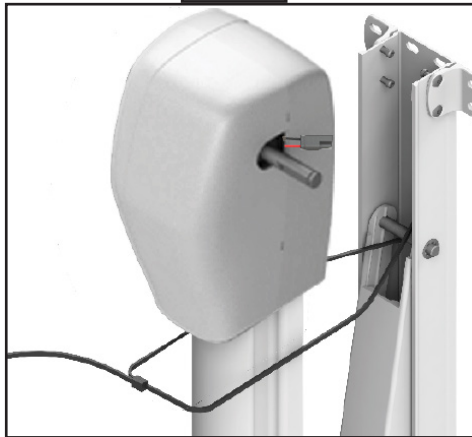
- If the current LED light strip was removed, proceed to Installing Current Style LED Lights (Black Connector) section.
- If the original LED light strip was removed, then follow the procedure detailed in Replacing the Idler Head if Original Connector (White Connector) was Present section.

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### Replacing the Idler Head if Original Connector (White Connector) Was Present

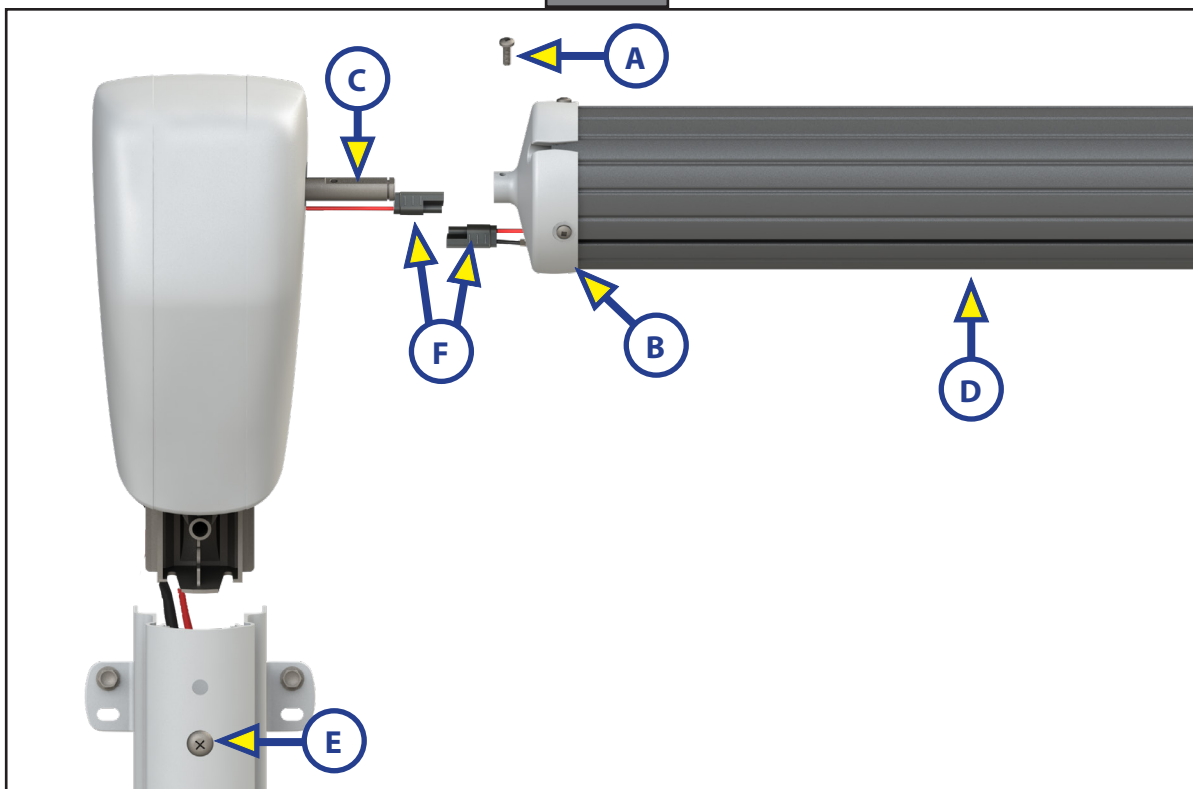
1. Extend the awning about 12" away from the unit.
2. Secure the idler arm by running a zip tie around the outer arm and around the pin on the top of the mount arm where the mount arm and inner arm connect (Fig. 9).

Fig. 9



3. Remove the wax screw (Fig. 10A) from the end cap (Fig. 10B) that attaches to the shaft (Fig. 10C) on the idler head assembly.
4. Support the roll tube (Fig. 10D) to prevent it from falling and damaging the side of the unit.
5. Remove the idler head assembly retaining bolt (Fig. 10E) from the outer arm.

Fig. 10



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6. Disconnect the wires (Fig. 10F).
7. Remove the roll tube from the idler head shaft and the idler head assembly from the outer arm.

**NOTE:** Remember the orientation of the colored wires.

### Installation

1. Secure the new idler head assembly in the outer arm with the retaining bolt (Fig. 10E).
2. Insert the idler head assembly shaft (Fig. 10C) into the roll tube end cap (Fig. 10B).
3. Replace the wax screw (Fig. 10A) in the roll tube end cap.

**NOTE:** When securing the wax screw, leave approximately  $\frac{1}{8}$ " between the screw head and the roll tube, as over-tightening will strip the screw.

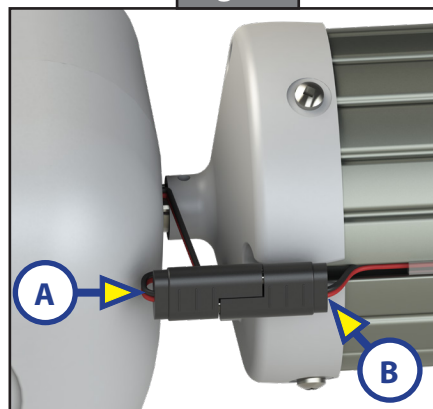
4. Connect wires as they were originally connected (Fig. 10F).
5. Remove zip tie (Fig. 9).

### Installing Current Style LED Light Strip (Black Connector)

1. Spray silicone lubricant down the track so it is easier to slide the new LED light strip into place.
2. Slide new LED light strip completely down the awning roll tube. Start with the end of the strip that is not wired, and slide toward the direction of the drive arm. The wires will need to remain on the idler mount arm side.
3. Connect the new LED light strip (Fig. 11B) to the connector coming from the idler head (Fig. 11A). Make sure to align the idler head's LED light wires (Fig. 11A) with the roll tube's LED light (Fig. 11B).
4. Either silicone or hot glue in the ends of track to hold the light in place

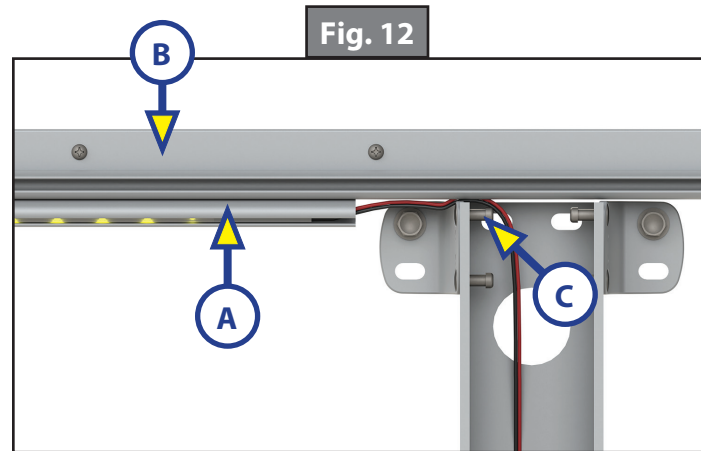
**NOTE:** As of June 2018, LED lights now come equipped with a built-in resettable fuse.

Fig. 11



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## LED Light Rail



**NOTE:** Prior to procedure it may be helpful to use a flat head screw driver to pry open the aluminum LED light rail and spray along the polycord with a silicone lubricant to make the replacement easier.

Removal of Old LED Light Strip

1. Fully extend the awning to access to the awning rail (Fig. 12B).
2. Turn off power in unit and remove wire covers on the drive mount arm.
3. Disconnect the LED wiring from coach wiring.
4. Remove the silicone sealant from both ends of the awning rail that holds the LED light strip in the awning rail.
5. Slide the LED light strip out of the awning rail.
6. To measure and cut LED light strip, refer to Custom Sizing and Cutting of the LED Strip section.

Replacement Procedure

1. Slide new LED light strip (Fig. 12A) completely down the awning fabric polycord. Start with the end of the strip that is not wired, and slide toward the direction of the idler arm. The wires will need to remain on the drive mount arm side (Fig. 12C).
2. Connect and splice the new LED light strip wires into the light wires where the original was disconnected.

**NOTE:** Make sure the black wire is connected to a ground and the red wire is connected to 12V DC power source.

3. Reinstall wire covers into the drive mount arm.
4. Either silicone or hot glue in the ends of track to hold the light in place.

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

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Follow proper safety practices. If in doubt, consult a professional RV technician.

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