

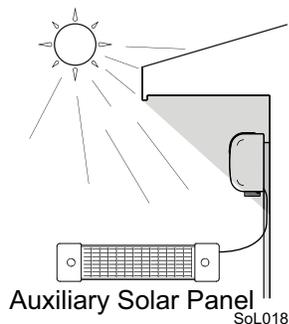
## AUXILIARY SOLAR PANEL

### AWNING POSITION AND THE SUN

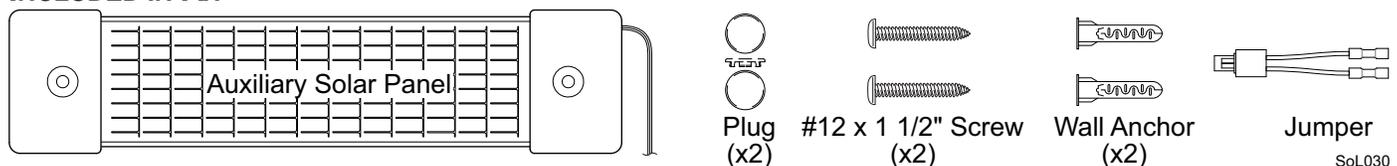
The solar panel located on the top right of the awning is used to charge the EOS battery and provides light level sensing for the autonomous functions (auto extend and retract).

If the awning is mounted in a shaded area, such as directly under an eave, the solar panel functions will be diminished and may not provide adequate battery charging. For these cases, an auxiliary solar panel should be purchased and installed in an area receiving direct sunlight to increase sun level sensitivity and provide proper battery charging.

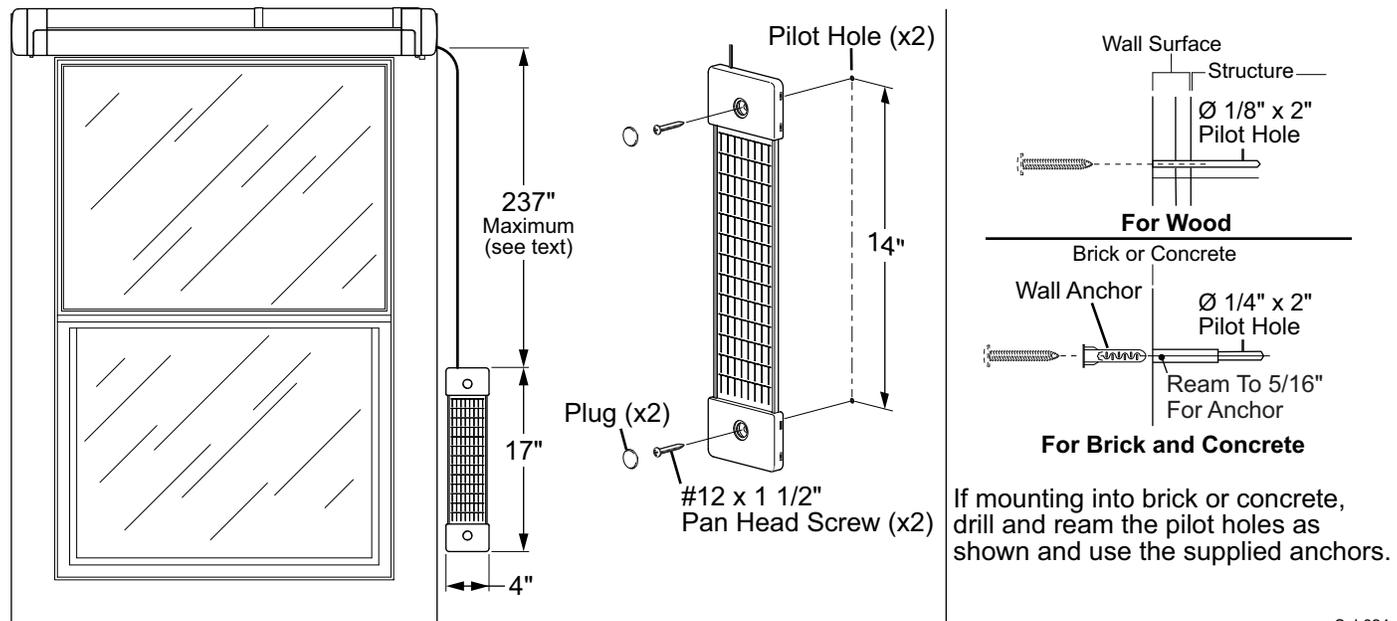
The auxiliary solar panel can be installed during the original installation or can be added after installation if needed.



### INCLUDED IN KIT



### MOUNTING THE SOLAR PANEL



1. Position the panel where it can receive a minimum of 1 hour of direct sunlight per day. The panel may be oriented vertically or horizontally. Do not place the panel directly under the awning's shadow.

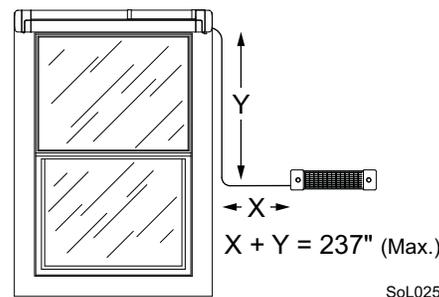
#### Wire Routing Note:

There is approximately 240" of wire from the solar panel. Allow approximately 3" to extend above the bottom of the awning for routing into the endcap.

Routing the wire around corners or obstacles will use more wire than a straight line. Adjust the position of the panel to accommodate the wire routing.

2. Mark the location of the mounting holes.
3. For wood structure: Drill two (2) 1/8" x 2" deep pilot holes.
4. For brick or concrete:
  - 4.1. Drill two (2) 1/4" x 2" deep pilot holes.
  - 4.2. Ream holes out to 5/16" for anchors.
  - 4.3. Install the provided anchors into the holes.

5. Mount the panel using the provided #12 x 1 1/2" pan head screws.
6. Press the plugs in over the screw heads.



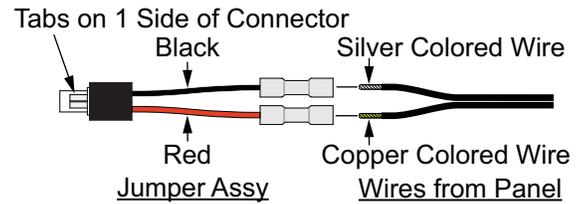
CONNECTING THE SOLAR PANEL

After routing, trim any excess wire off the end.

1. Allow approximately 3" to extend above the bottom of the awning.
2. Separate the wires and strip the insulation approximately 1/8" from the ends.

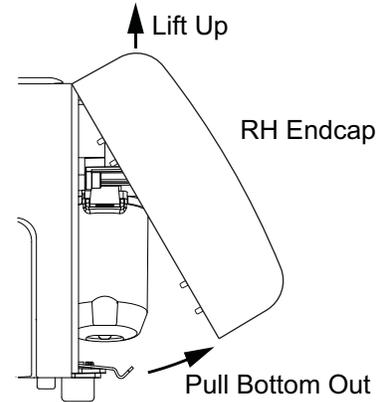
**NOTE:** The raw wire strands must be tightly twisted.

3. Attach the jumper assembly to the ends of the wire from the solar panel using the crimp connectors attached on the jumper assembly.



**NOTE:** Wires are polarity specific and must be connected as shown. Sol028

4. Open the right side endcap.
  - 4.1. Pull the bottom of the cap out and lift the cap up and off.

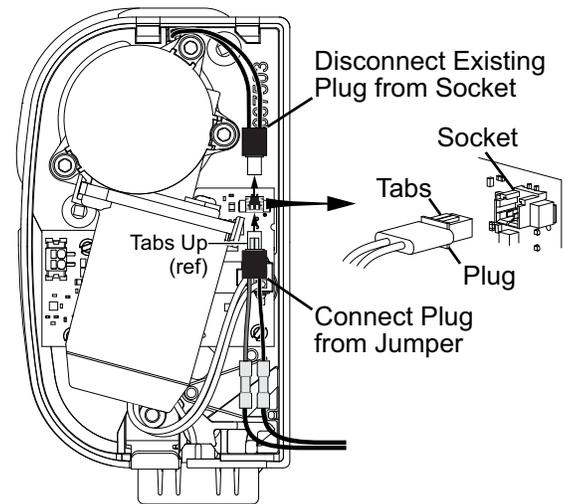


5. Locate the plug and socket behind the motor.
6. Disconnect the existing plug from the socket.
 

**NOTICE**

 Use care to not damage the socket. The plug fits tightly, pull the plug straight out from the socket. The use of needle nose pliers or similar tool can aid in removing the plug.
7. Insert the jumper assembly plug into the socket.
 

**NOTE:** The plug fits in only one orientation. The tabs must be facing up (toward the top of the awning) when inserted.
8. Route the wires toward the back of the case.

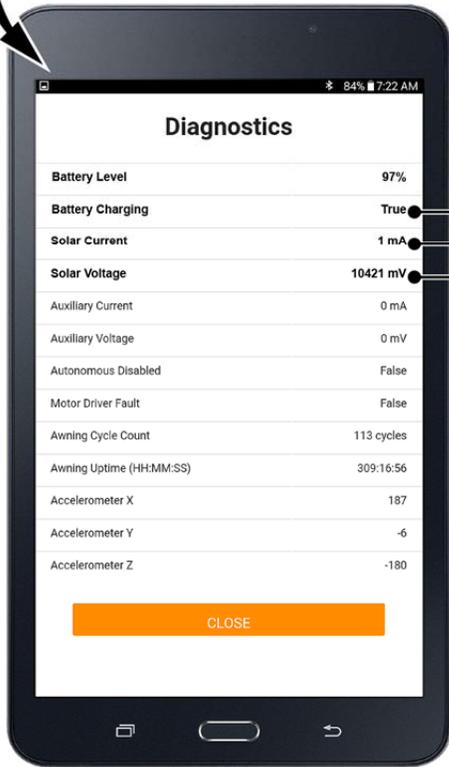


Sol027

CHECK THE AUXILIARY PANEL FUNCTION

Using the mobile app, confirm that the awning is connected and the controls are active for the awning.

1. Go to the "Service Screen" and press the DIAGNOSTICS button.
2. Confirm the values shown below.



**Battery Charging**

- True  
Battery Level is less than 98%
- False  
Battery Level is 98% or more

**Solar Current**

- If Battery Charging = True  
Value range = 1mA - 60mA (approx.)  
(value is dependent on amount of sunlight hitting the panel)
- If Battery Charging = False  
value will be 0mA

**Solar Voltage**

- Value range = 5000mV - 20000mV (approx.)  
(value is dependent on amount of sunlight hitting the panel)
- If Battery Charging = True  
value will be lower
- If Battery Charging = False  
value will be higher

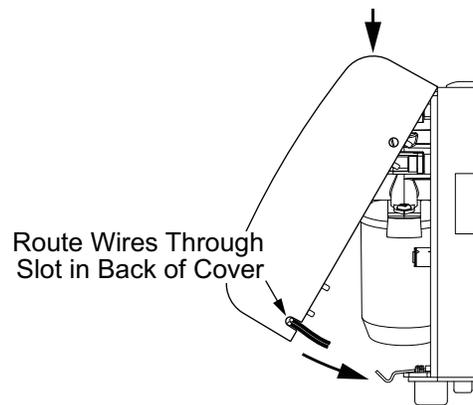
SoLa034T

3. If the values are not within the ranges shown, check the wiring connections and confirm that the connections match the descriptions on the previous page.

ATTACH THE ENDCAP

4. Hang the endcap on the hooks on the top of the case.
5. Route the wires through the slot in the rear of the endcap.
6. Rotate the endcap down until it snaps.

**NOTICE** When closing the endcap, ensure that no wires are pinched between the endcap and case.



SoL027a