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Dimming LED Light System

Lateral Awning Installation

Helper Needed

Tools needed: Electric Drill (**Use Eye Protection**), Center Punch, Hammer, Pencil, Tape Measure, Phillips Screwdriver, and one or more Helpers.

Parts Supplied: LED Light Strips with Cord Assemblies (*one for each Lateral Arm*), Light Control Box, Power Cord (*not shown*), Two Low Voltage LED Light Strip Cords (*not shown*), Mounting Clips, #8 x 1/4" Screws (*not shown*), #8 x 1" Screws and Anchors, Velcro Strips (*not shown*), Multi Channel Remote Transmitter, Spare CR2430 Battery (*not shown*), and a 3.2 mm Drill Bit (*not shown*). See **Figure 1**.

CAUTION - Use of a drill bit larger than the provided 3.2 mm bit can cause the Mounting Screws to strip out and cause the Mounting Clips to fail, which can lead to damage to the product and personal injury.

WARNING: FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN PERSONAL INJURY! PLEASE READ THESE INSTRUCTIONS IN ITS ENTIRETY BEFORE ATTEMPTING TO COMPLETE THIS INSTALLATION.

Figure 1

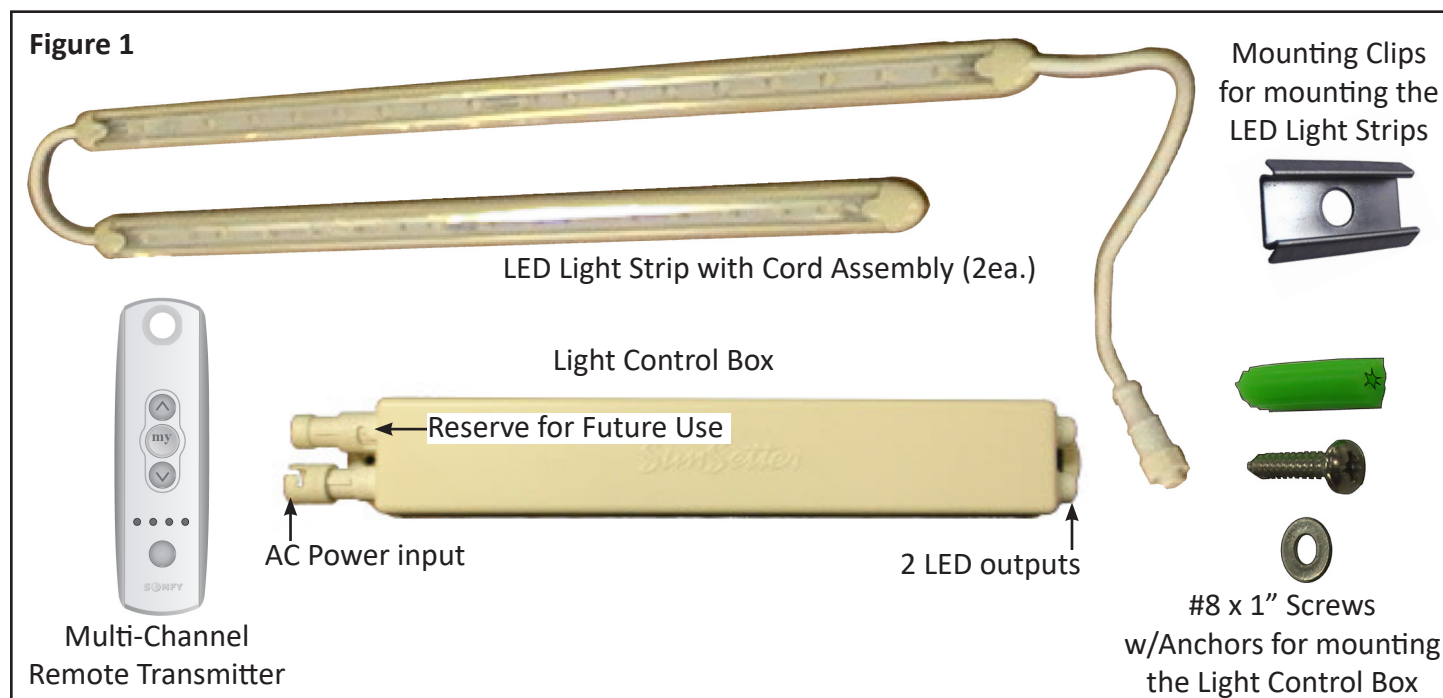


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Hole Locations for the LED Light Strip Mounting Clips

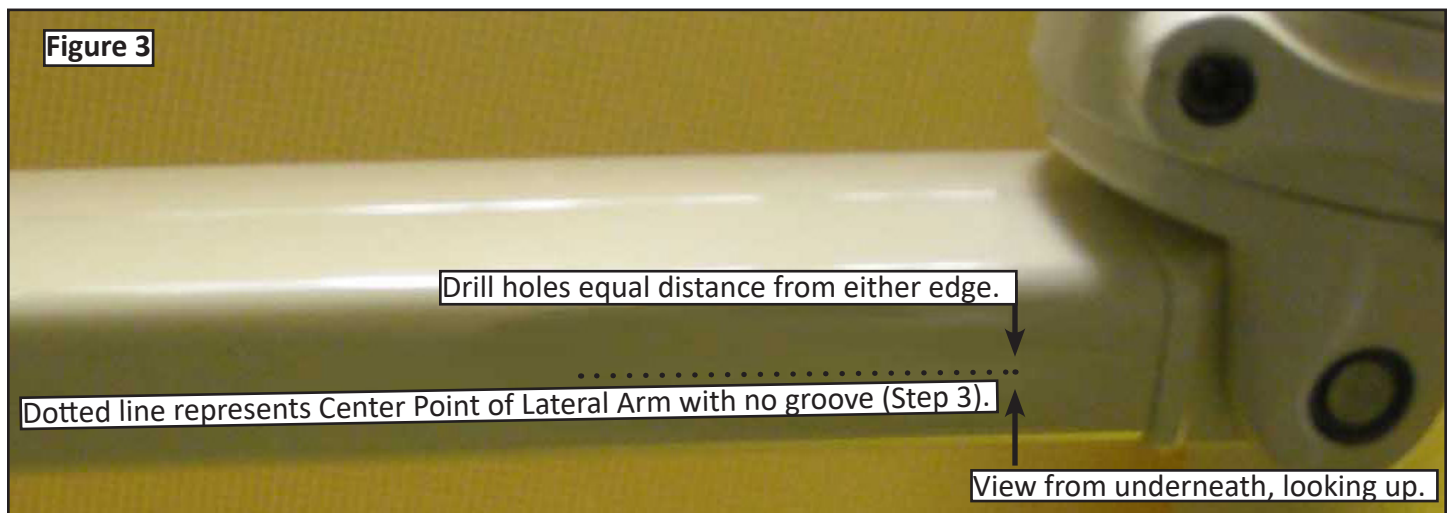
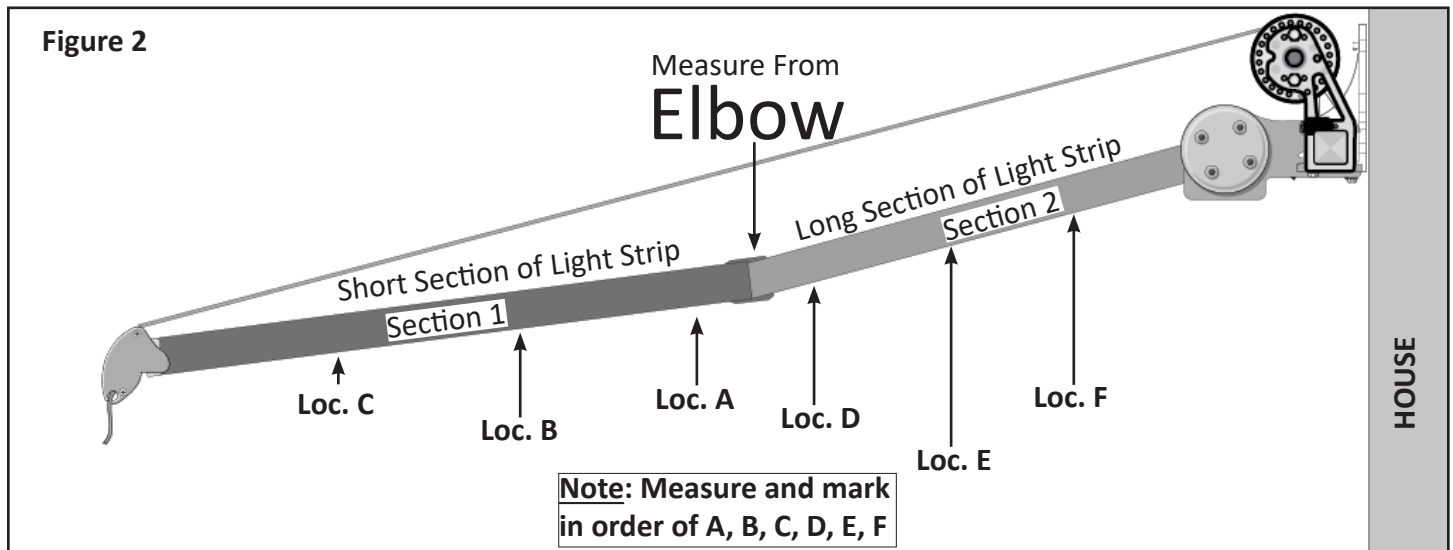
1. Extend the Awning to its fully open position. See **Figure 2**.
2. On Motorized Awnings, unplug the Power Cord on the Awning to prevent accidental movement of the Awning during installation of the LED Lights.
3. Using a Tape Measure and Pencil, mark the Hole Locations to be drilled into the Lateral Arms for the Mounting Clips, on the **UNDERSIDE** of each Lateral Arm section (see **Figure 2**), inside the groove. If no groove is present, mark the Center Point of the Lateral Arms, as shown in **Figure 3**.

Note: There will be a total of 6 hole locations on each Lateral Arm, or a total of 12 locations for both Lateral Arms. See **Figure 2**.

Note: All holes must be drilled in a straight line so LED Light Strips will snap on to the Mounting Clips. The specific locations along this straight line are not critical but locations in Chart A are highly recommended.

Determine hole locations according to the chart below, **ALWAYS** begin measuring from the Elbow. See **Figure 2**.

Awning Size	Short Section of Light Strip			Long Section of Light Strip		
	Loc. A	Loc. B	Loc. C	Loc. D	Loc. E	Loc. F
8ft - 11ft wide, 7ft and 9ft projection	6 inches	18 inches	30 inches	6 inches	16 inches	26 inches
12ft-20ft wide, 10ft and XL projection	6 inches	27 inches	49 inches	6 inches	25 inches	44 inches



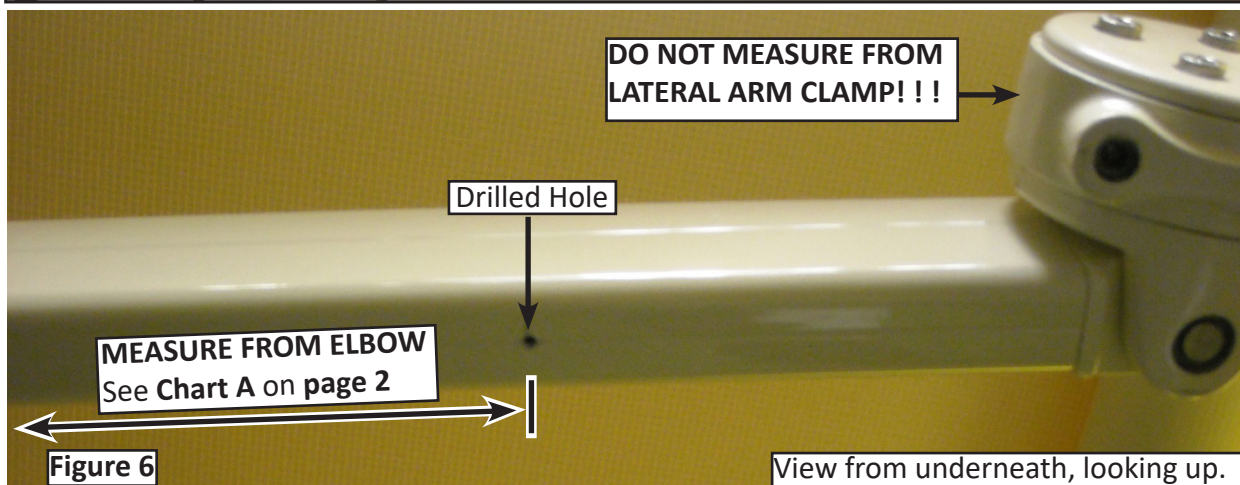
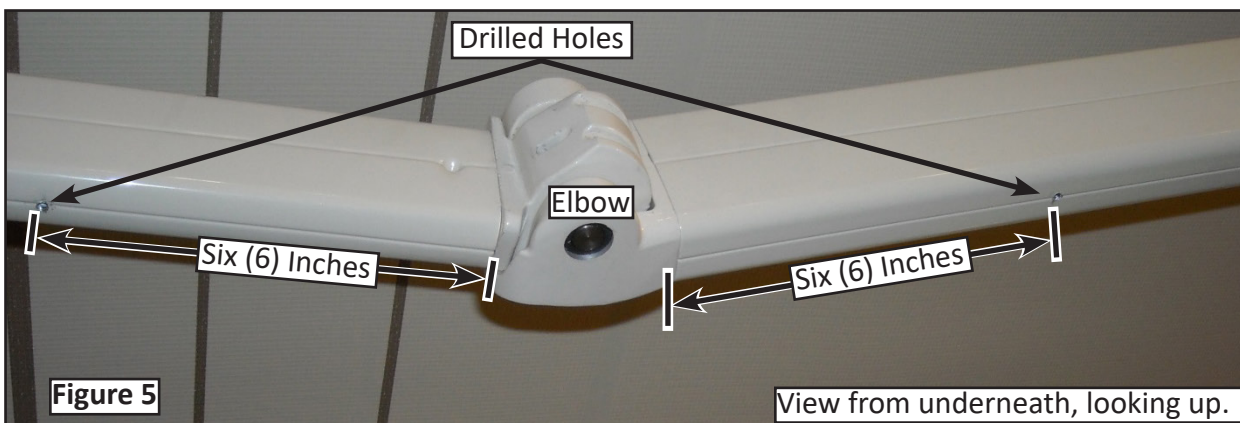
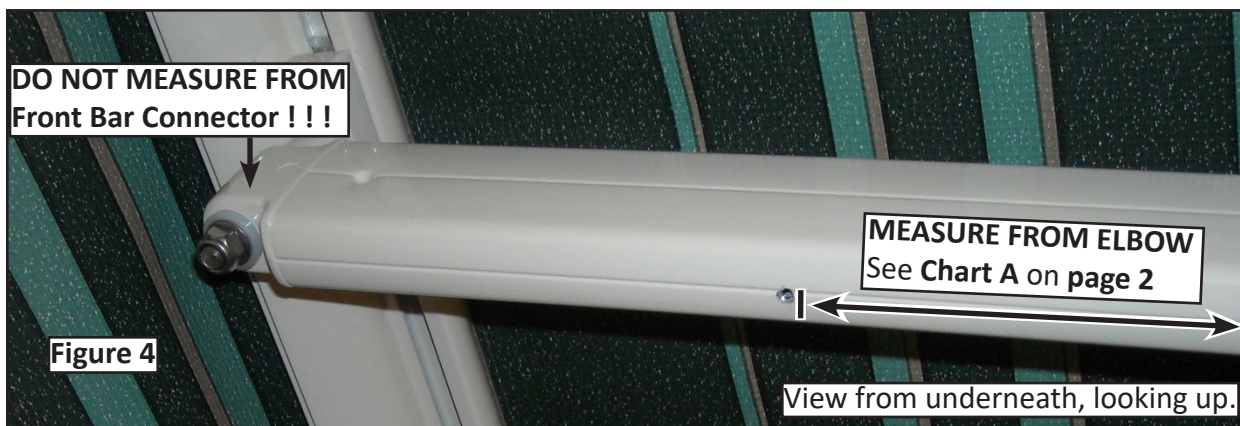
Center Punch and Drill the Holes for the LED Light Strip Mounting Clips

4. Center-punch the marks (see locations in **Figure 2**) that you made in **Step 3**. **Note:** Have your helper hold the Lateral Arm steady while performing steps 4, 5 and 6 (punching, drilling holes and attaching clips).

WARNINGS:

- IN THE NEXT STEP, YOU MUST DRILL INTO THE LATERAL ARMS FROM UNDERNEATH, NOT FROM THE SIDES. FAILURE TO DO SO CAN CAUSE DAMAGE TO THE LATERAL ARM.
- ALWAYS USE EYE PROTECTION WHEN OPERATING A DRILL.
- WHEN DRILLING, AS SOON AS THE DRILL BIT GOES THROUGH THE LATERAL ARM WALL, STOP DRILLING. FAILURE TO STOP AS DESCRIBED CAN CAUSE DAMAGE TO THE LATERAL ARM AND THE PROVIDED DRILL BIT.

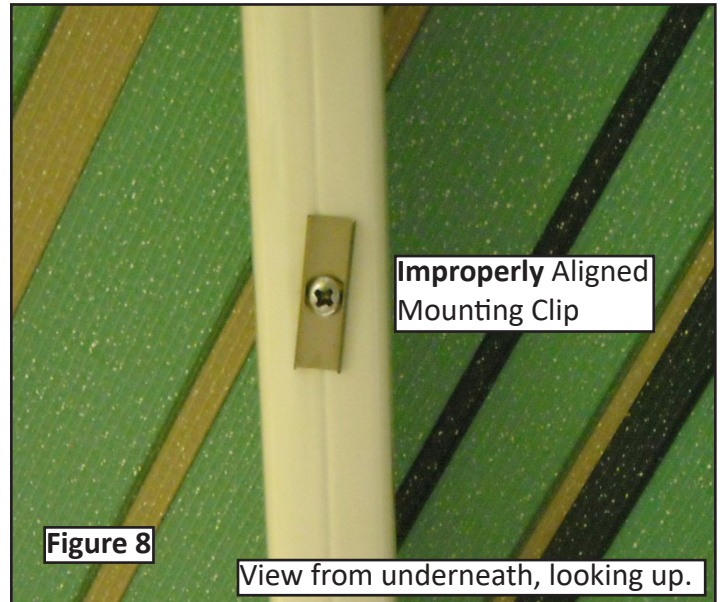
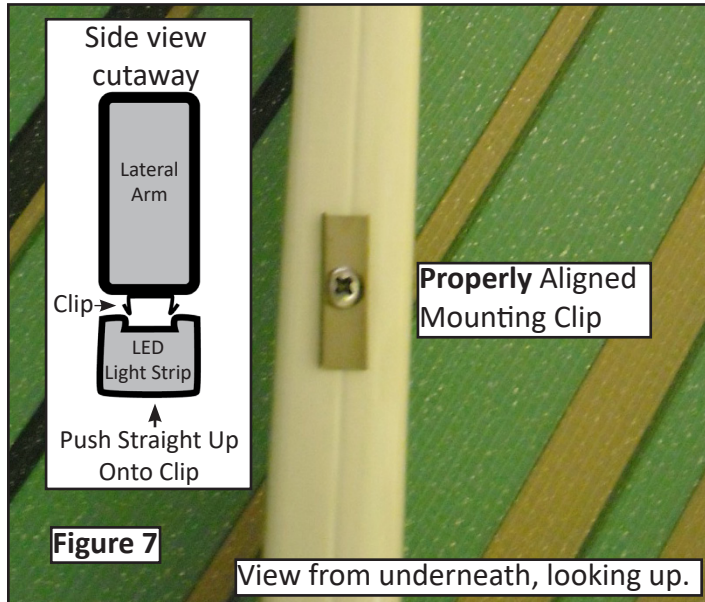
5. Using the **provided** Drill Bit, **carefully** drill a hole at each of the 12 marks. See **Figures 4, 5 and 6**. Stop drilling as soon as the Drill Bit cuts through the outer wall. **Use eye protection when operating a drill.**



Attach the Mounting Clips

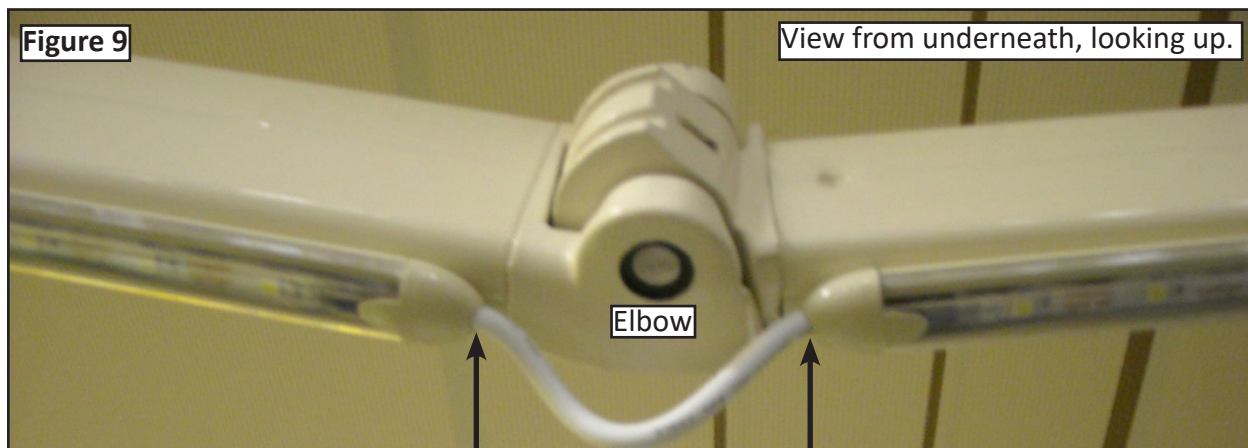
6. Secure the Mounting Clips to the Lateral Arm using the supplied #8 x ¼" Phillips screws. Make sure that the Mounting Clips are aligned parallel to the Lateral Arms and the open channel faces down.
7. See **Figure 7** for a **PROPERLY** aligned Clip and **Figure 8** for an **IMPROPERLY** aligned Clip.

CAUTION-Make sure that all of the Mounting Clips are still oriented parallel to the Lateral Arms before completing the next step. LED Lights will not attach to improperly aligned Clips. Forcing LED Lights onto improperly aligned Clips can permanently damage the Clips. See Figures 7 and 8.



Attach the LED Light Strips

8. Working with your helper, position the LED Light on the Lateral Arm, beginning closest to the Elbow.
Note: Leave enough slack in the Power Cable between the two LED Light Strips to allow space for the Lateral Arms to close without tugging the cables, which could pull a Strip off the mounting clips. See **Figure 9**.
9. While your helper supports the other end of the LED Light, very carefully press the LED Light Assembly onto the installed Mounting Clip closest to the Elbow until it clicks into place, then press onto the middle Mounting Clip, then onto the Mounting Clip on the outer end. Repeat for the other mounting locations.
10. You may now remove any protective plastic film from the LED Light Strips.



Position the LED Lights near the end of each Lateral Arm section, closest to the Elbow. Refer to **Step 8**.

Note: Leave enough slack in the Power Cable between the two LED Light Strips to allow space for the Lateral Arms to close without tugging the cables, which could pull a Strip off the mounting clips.

Mount the LED Light Control Box

Note: DO NOT PLUG IN THE LED LIGHT SYSTEM TO THE POWER OUTLET UNTIL INSTRUCTED TO DO SO.

1. Connect the Waterproof Plugs on the LED Lights to the Low Voltage LED Light Strip Cords.
2. Connect the other end of the LED Light Strip Cords to the LED Outputs on the LED Light Control Box, **to be sure you have enough length of Cord when positioning the Light Control Box.** See Figure 10.
3. Connect the 120v AC power cord to the Light Control Box, **but do not plug in to the wall outlet.** Make sure you have enough length of Cord to **reach the wall outlet** (GFI recommended).
4. Locate the Light Control Box (with all Cords disconnected) on the wall underneath the Awning.
5. Mark the two (2) hole locations on the wall, through the Mounting Tabs on each end of the Light Control Box. See Figures 11 and 12.
6. Disconnect all Cords from the Light Control Box.
7. **You Must Remove the Light Control Box** from the wall and place it in a safe and secure location.
8. Drill the marks on the wall.
9. Secure the Light Control Box to the wall using the supplied #8 x 1" screws.
10. Connect only the LED Light Strip wires to the Light Control Box with the provided Cord Assemblies.

Note: DO NOT PLUG IN THE LED LIGHT SYSTEM TO THE POWER OUTLET UNTIL INSTRUCTED TO DO SO.

11. Secure the Cord Assemblies to the Square Bar using the supplied Velcro Strips.
12. For Motorized Awnings only, **plug in the Motorized Awning** motor (not the LED power) into the GFI outlet.
13. Install the Mounting Post for the Remote Transmitter in a dry location.

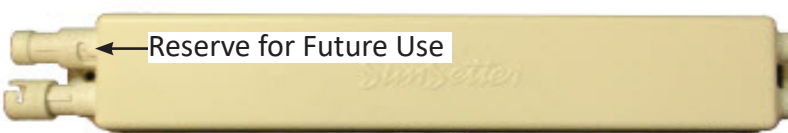
Figure 10

← To Lights



To LED outputs on
Light Control Box →

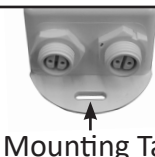
AC
Power
input →



2 LED outputs.
One for each
LED Light Strip.

Figure 11

Light Control Box



Mounting Tab

Figure 12

The Multi Channel Remote Transmitter

The Multi Channel Remote Transmitter must be programmed to the Light Control Box the first time the LED Light System is plugged in. SunSetter recommends **Channel 1** be used to operate your Awning and **Channel 2** be used to operate your LED Light System, unless you did not purchase a motorized Awning, then use **Channel 1** to operate your LED Lights.

How to Use the Multi Channel Remote Transmitter (See Figs 13 & 14)

- To identify the active Channel, press and release the Channel Selector button. The active Channel Indicator Light will blink for about **5 seconds**.
- To move to the next Channel, press and release the Channel Selector button while the Channel Indicator Light blinks. The next Channel becomes active. That Channel Indicator Light blinks for about **5 seconds**.
- All four blinking Lights indicates **Channel 5** is active.
- Channel selection moves in order **from Channel 1 thru 5, then back to 1**.
- A spare **CR2430** Battery is included with the Remote Transmitter.

Figure 13

Multi Channel
Remote Transmitter
Front View

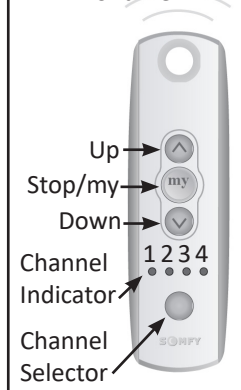
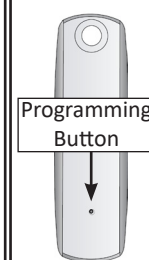


Figure 14

Remote
Transmitter
Rear View



Program the Multi Channel Remote Transmitter to the LED Light System

Use either Section A, B or C

<h3>Section A</h3> <p>For LED Lights purchased <u>WITH</u> Motorized Awning, use Steps A1 - A4.</p> <p>Channel 1 for Motor Channel 2 for Lights</p>	<p>A1. Set the Remote Transmitter to operate on Channel 2 (see Figure 13). Note: Channel 1 operates your Awning, use Channel 2 for the LED Lights.</p> <p>A2. Plug the Light Control Box into a GFI outlet. The LED Lights will blink, slowly.</p> <p>A3. Press the UP and DOWN buttons on the the Remote Transmitter (see Figure 13) at the same time (for about three seconds). The LED Light strips (mounted on the Awning) will blink, slowly.</p> <p>A4. Press and Hold the Programming Button on the back of the Remote Transmitter (see Figure 14) until the LED lights (mounted on the awning) blink, slowly. The LED Light System programming is now complete.</p>
<h3>Section B</h3> <p>For LED Lights purchased <u>SEPARATELY</u> from Motorized Awning, use Steps B1 - B7.</p> <p>Channel 1 for Motor Channel 2 for Lights</p>	<p>B1. Set the Remote Transmitter to Channel 1 (see Figure 13).</p> <p>B2. On the <u>Remote Transmitter that controls your Awning</u>; press and hold the Programming Button (see Figure 14) on the back of the Remote, release after Awning jogs.</p> <p>B3. Press and hold the Programming button (see Figure 14) on the back of the <u>New Multi Channel Remote Transmitter</u> until the Awning jogs. Your Awning is now programmed to operate on Channel 1 on your new Remote Transmitter.</p> <p>B4. Set the Multi Channel Remote Transmitter to Channel 2 (see Figure 13).</p> <p>B5. Plug the Light Control Box into a GFI outlet. The LED lights (mounted on the Awning) will blink, slowly.</p> <p>B6. Press the UP and DOWN buttons on the Remote Transmitter (see Figure 13) at the same time until the LED lights (mounted on the Awning) blink, slowly.</p> <p>B7. Press the Programming Button on the back of the Remote Transmitter (see Figure 14) until the LED lights (mounted on the Awning) blink, slowly.</p> <p>B8. The original Remote Transmitter continues to operate your Awning. The LED Light System programming is now complete.</p>
<h3>Section C</h3> <p>For LED Lights with a Vista Awning, use Steps C1 - C4.</p> <p>Channel 1 for Lights</p>	<p>C1. Set the Remote Transmitter to operate on Channel 1 (see Figure 13).</p> <p>C2. Plug the Light Control Box into a GFI outlet. The LED lights will blink, slowly.</p> <p>C3. Press the UP and DOWN buttons on the Remote Transmitter (see Figure 13) at the same time until the LED lights (mounted on the Awning) blink, slowly.</p> <p>C4. Press the Programming Button on the back of the Remote Transmitter (see Figure 14) until the LED lights (mounted on the Awning) blink, slowly. The LED Light System programming is now complete.</p>

Operation of Your LED Light System

The **LED Dimmer** can be used to dim the level of the LED Light strip to either **full ON**, **full OFF**, or in increments. The different levels can be achieved either by **pressing and releasing** a button, or **pressing and holding** a button as described below.

Turning the LED strip full ON

To turn the LED Light strip **fully ON**, press & release within $\frac{1}{2}$ **second** the **UP** button on the Remote Transmitter. Any time the **UP** button is pressed and released within $\frac{1}{2}$ **second**, the LED strip will turn **fully ON**.

Turning the LED strip full OFF

To turn the LED strip **fully OFF**, press & release (within $\frac{1}{2}$ **second**) the **DOWN** button on the Remote Transmitter. Any time the **DOWN** button is pressed and released within $\frac{1}{2}$ **second**, the LED strip will turn **fully OFF**.

Dimming the LED strip ON

When the LED strip is **fully OFF**, press and hold (for more than $\frac{1}{2}$ **second**) the **UP** button on the Remote Transmitter. As you continue to hold the **UP** button, the LED Lights will gradually dim up to **fully ON**. When a desired dimming level has been achieved, release the **UP** button.

The LED Light strip can be dimmed from any level by pressing and holding (for more than $\frac{1}{2}$ **second**) the **UP** button on the Remote Transmitter.

Dimming the LED strip OFF

When the LED Light strip is **fully ON**, press and hold (for more than $\frac{1}{2}$ **second**) the **DOWN** button on the Remote Transmitter. As you continue to hold the **DOWN** button, the LED Lights will dim down to **fully OFF**. When a desired dimming level has been achieved, release the **DOWN** button.

The LED strip can be dimmed from any level by pressing and holding (for more than $\frac{1}{2}$ second) the **DOWN** button on the Remote Transmitter.

Favorite “my” Position

A favorite dimming level can be memorized as described below.

Use the Remote Transmitter to set the LED strips to a desired dimming level.

Press and hold (for approximately **5 seconds**) the “**my**” button on the Remote Transmitter until the LED Light strips blink. This level has now been memorized, and the LED Light strips will be set to this level whenever the “**my**” button is pressed and released (within $\frac{1}{2}$ **second**).

To memorize a new favorite dimming level, follow the same procedure. The previous favorite dimming level will be overwritten.

LED 3 hour Timer

The LED Control has a 3 hour Timer that can be enabled or disabled, as desired. The Timer is disabled in the factory default mode.

With the Timer enabled, the control will automatically turn off the LEDs 3 hours after the last command is given.

- **Enable the Timer:** Simultaneously press and hold for approximately 7 seconds the **UP**, **MY**, and **DOWN** buttons until the LEDs give a fast blink.
- **Disable the Timer:** Simultaneously press and hold for approximately 7 seconds the **UP**, **MY** and **DOWN** buttons until the LEDs give a fast blink.

Each time the **UP**, **MY** and **DOWN** buttons are held for 7 seconds, the Timer will toggle on or off.

- One blink = 3 hour Timer Enabled
- Two blinks = 3 hour Timer Disabled.

Master Reset to Factory Mode

To restore the LED Light System to the FACTORY mode (in which it ships from SunSetter), use this procedure:

1. Unplug the LED Lights for 5 seconds.
2. Plug in the LED Lights for 10 seconds.
3. Unplug the LED Lights for 5 seconds.
4. Plug in the LED Lights. The LED Light Strips will start a slow on/off blink cycle that will continue for 2 minutes if no other commands are given. Go immediately to **Step 5**.
5. While the LEDs are in the on/off blink cycle, PRESS and HOLD the programming button on the remote transmitter until the LEDs give a fast blink on/off and then a second blink on/off and then remain off.
6. Unplug the LED Light System. The Light Control Box is now reset to factory mode and can be programmed with any Remote Transmitter.
7. Go to **Program the Multi Channel Remote to the LED Light System** on **Page 6**.

WARNINGS:

- DO NOT ATTEMPT TO OPEN THE LIGHT CONTROL BOX FOR ANY REASON, AS THERE ARE NO USER-SERVICEABLE PARTS INSIDE. FAILURE TO FOLLOW THIS WARNING CAN RESULT IN AN ELECTRIC SHOCK AND CAUSE PERSONAL INJURY.
- DO NOT ATTEMPT TO DISTURB OR REMOVE THE WATERPROOF WIRING SEALS ON THE OUTSIDE OF THE LIGHT CONTROL BOX. SEE FIGURE 15.

Figure 15



Do Not Disturb Waterproof Wiring Seals on Outside of Light Control Box

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