

USER MANUAL

Neon LED Configuration



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Product Description

Neon LED comes ready for customization to fit almost any lighting project. This user guide is intended to instruct anyone on how to re-power Neon LED, add joiners and an endcap.

This user manual can be used when extra Neon LED has been left over from an installation or if extra Neon LED needs to be added, or during an installation where unexpected gaps or jumps are suddenly required. Basically every part of making a fully waterproof and long lasting installation is covered in this user manual.

Main Functions:

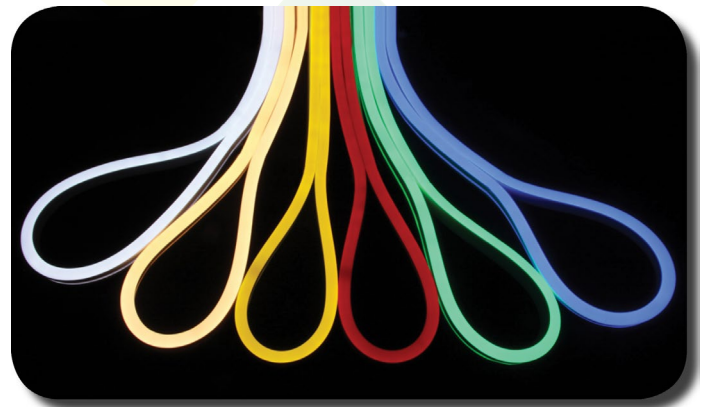
- Power Adapter: For re-powering a piece of Neon LED
- Joiner: Used for reconnecting Neon LED
- Endcap: For adding a waterproof seal to the end of Neon LED
- Mounting Bracket: For firmly attaching Neon LED

Technical Features:

- Operating Voltage: 120V AC
- Watts Per Foot: 2.42W
- Cut Points: Every 18 inches
- 36 LED's per foot

This manual reviews:

- Entire waterproof and configuration process
- How to add a power adapter
- How to install a joiner
- How to add the endcap
- How to install the mounting bracket



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Installation

This section will show you how to cut the Neon LED, add a power adapter, install a joiner, and add an endcap to complete the configuration for a fully waterproof seal. This manual also covers how to mount, install and use the mounting brackets. **All Neon LED can only be powered in one direction.** When cutting Neon, try to keep track of which end is cut. Please note, for outdoor or high humidity applications, we recommend using clear PVC cement for all connections (as noted in instructions), and we recommend at least 24 hours of drying time before installing or using the Neon. The 120V Neon LED is a **SIDE BENDING** (left and right) unit, bending in the opposite direction of the light output. Bending the Neon vertically (up and down) could split the contacts causing the unit to fail.

Tools Required:

- Sharp Metal Scissors or Shears (for cutting Neon at cut points)
- Paper Towels (for excess glue)
- Tong or Tweezer (for prong removal during testing)

Warning: Neon LED must be unplugged when any modifications are performed. 120V AC Current is Dangerous and may cause electrical shock, injury and in some cases death.

Cutting the Neon:

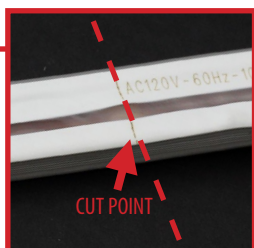
Each Neon LED has cut points every 18" inches. Refer to the diagrams below for the cut point symbol found on the Neon LED.

Neon LED Cut Point:



Warning: Any tool with a blade is dangerous, and caution is advised when handling any blade. Please make sure hands and fingers are kept at least several inches away from any blade and are not placed in the direction of the blade.

- 1 Find the cut point on the Neon LED. Imagine a line passing from one side of the Neon LED to the other with the center being the cut point symbol. Take either scissors or shears and line it up perpendicularly to the cut point and cut through the Neon LED.



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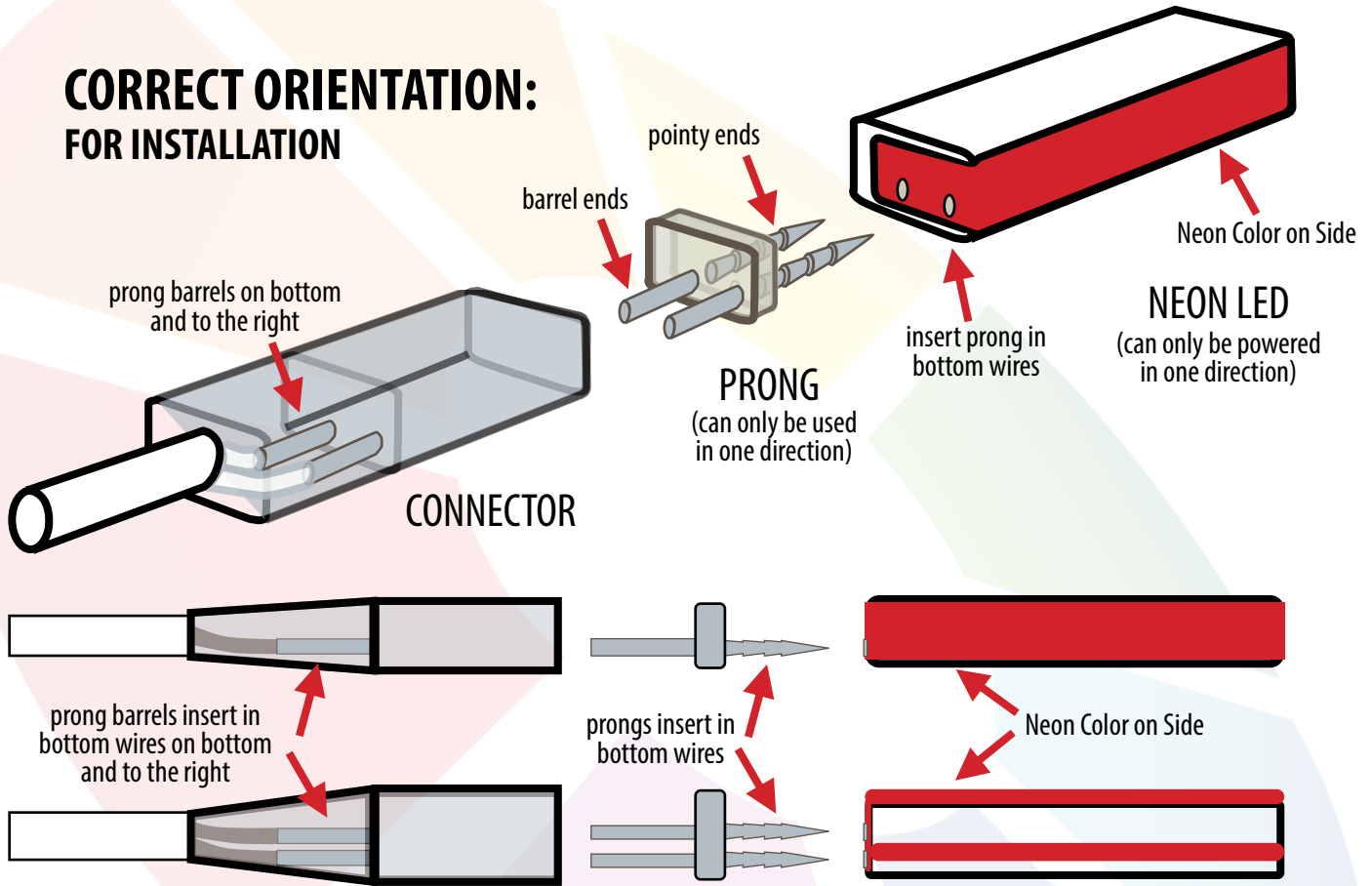
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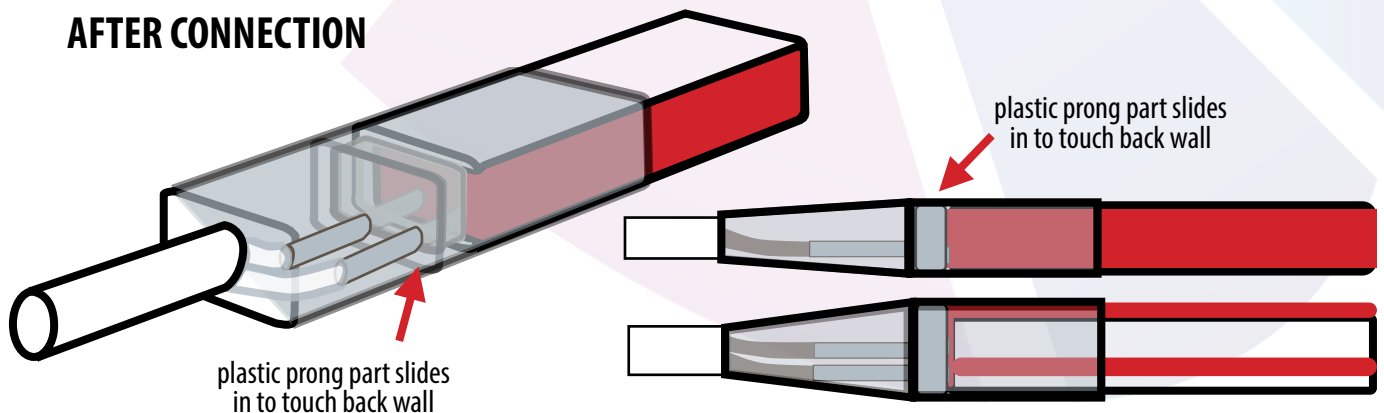
Connector Orientation:

The orientation between the prongs and the connector must match for correct installation. The pointy end of the prong can only be inserted into the Neon LED. The barrel end (non-pointy end) of the prong can only be inserted into the connector. The prongs and barrel connectors must always be on the bottom and to the right to work correctly.

CORRECT ORIENTATION: FOR INSTALLATION



CORRECT ORIENTATION: AFTER CONNECTION



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Neon LED Configuration

Pictures of Correct Connector Orientation

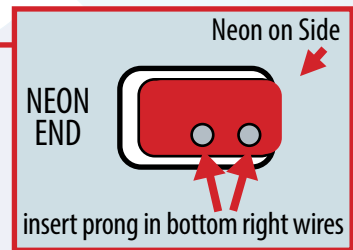
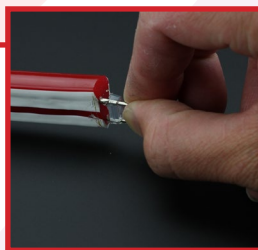
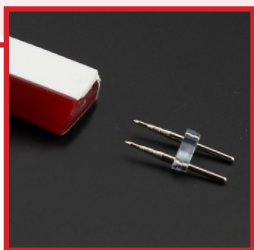


For more information see Page 15 for detailed pictures of Neon LED and the matching parts

Powering the Neon:

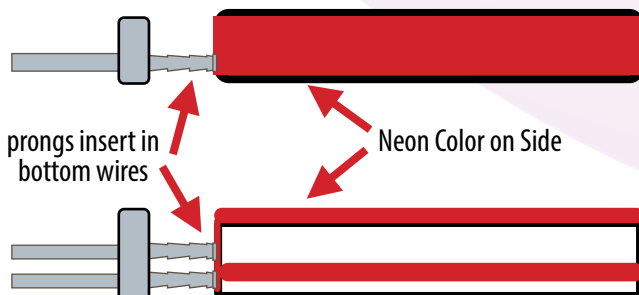
In this section you will learn how to add the power adapter to any cut point on the Neon LED.

- 1 First, the components need to be tested to confirm they work before adding any glue. The Neon LED can only be powered from one end. If you are unsure which end is correct, one end at a time must be tested to find the correct end for adding power for the Neon LED to work.
- 2 Take the prong and line it up to the Neon LED making sure the prong is oriented in the correct direction. Carefully insert the pointy end of the prong into exposed wire ends. Try to have each prong insert into the center of each exposed wire end. The prong needs to be inserted as far as possible without using excessive force.

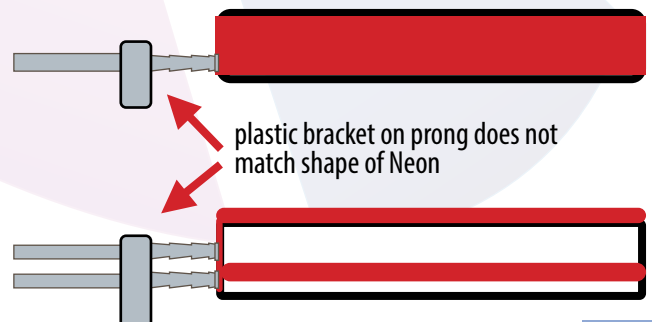


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CORRECT: ✓



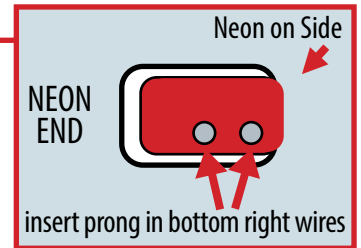
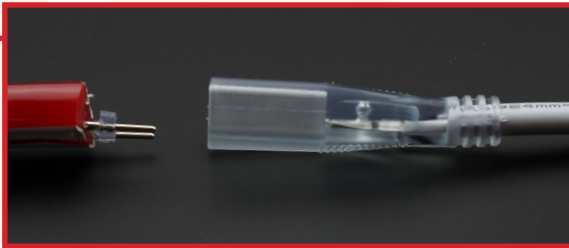
INCORRECT: ✗



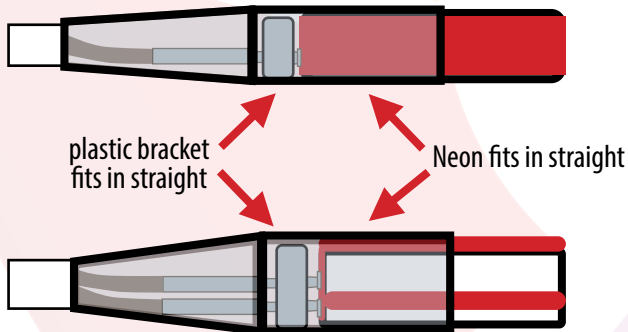
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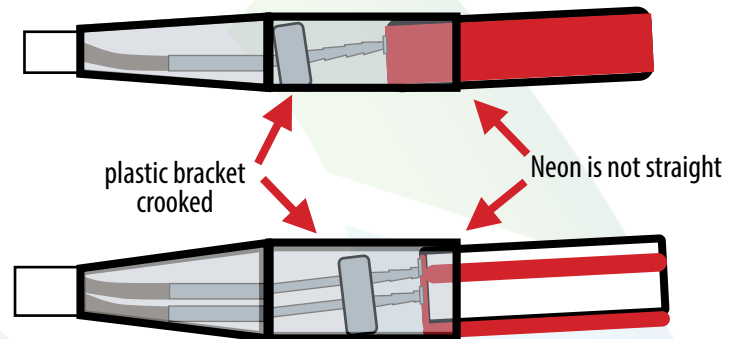
- 3 Then take the Neon LED with the prong and insert it into the power adapter connector in the correct orientation. The prongs will slide into the small barrels inside the connector.



CORRECT: ✓



INCORRECT: ✗



- 4 Take the plug on the power adapter and connect it into the wall outlet. **Warning: The opposite end of the Neon LED has not been sealed and must not touch any conductive material or electric shock or injury could occur.** If the lights turn on, then the prong was inserted into the correct end of the Neon. If the Neon LED does not come on, then unplug the power adapter and repeat from step 1 to test the opposite end of the Neon. Tweezers or tongs maybe required to remove the prongs if they are stuck inside the connector.

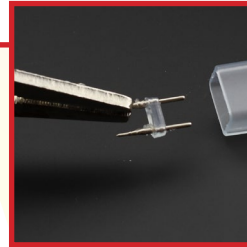


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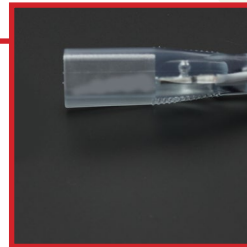
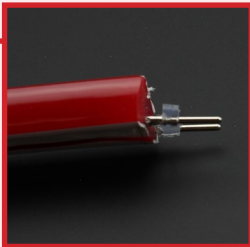
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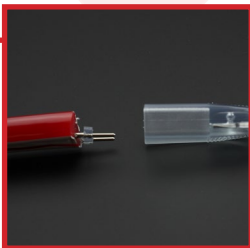
- 5 After confirming the Neon LED works, **unplug the Neon LED from the wall outlet**. Carefully pull the power adapter off the Neon. The prongs are sometimes stuck inside the connector on the power adapter and require a set of tweezers or tongs to pull the prong out.



- 6 The test phase is now complete, and the Neon LED, prong and connector can be assembled for the last time. Take the prongs and reinsert them into the Neon in the correct orientation. The prong needs to be inserted as far as possible without using excessive force. Then take the connector end of the power adapter and fill it half way with PVC cement.



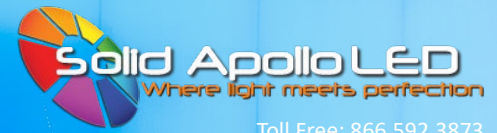
- 7 Take the Neon LED with the prong and re-insert it into the connector of the power adapter, making sure it is inserted in the correct orientation. Push the Neon and the connector together, until the plastic bracket on the prong touches the inner wall of the connector on the power adapter.



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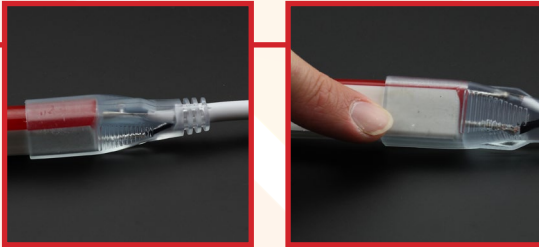
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Extra glue usually comes out at the connection. Take your finger and wipe the excess glue all the way around the connection point. Wipe extra glue onto the paper towel. Please note the configuration is not complete until an endcap is added to the opposite end. If a joiner is not required, skip the next section and go to page 12 for adding the endcap.



When configuration is complete, we recommend at least 24 hours of drying time before installing or using the Neon LED. Be careful when handling the Neon while it is drying, as connections could come apart. We recommend taping the connections if the neon needs to be handled multiple times during configuration.

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Installing a Joiner:

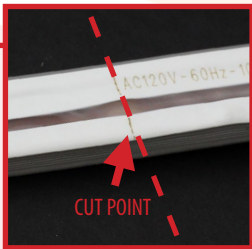
In this section you will add a joiner to any cut point on the Neon LED.



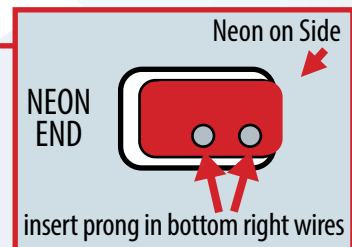
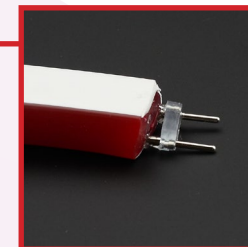
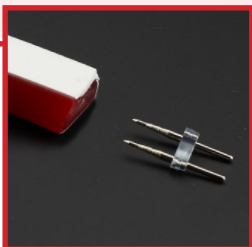
Joiner:

Used for attaching extra Neon LED where no gaps are needed

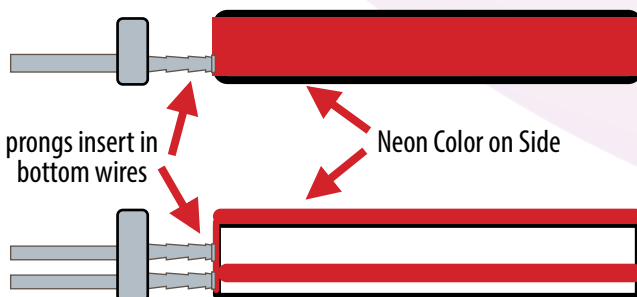
- 1 First, the components need to be tested to confirm they work before adding any glue. The Neon LED can only be powered from one end. If the extra piece of Neon LED needs to be cut follow the rest of this step, otherwise skip to step 2. Find the cut point you want to add an interconnector to. Cut at the cut point as noted on page 2 titled "Cutting the Neon."



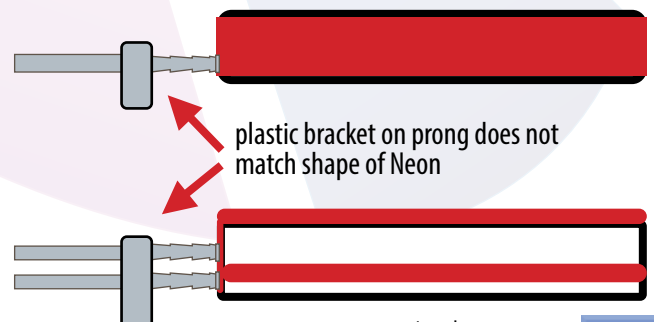
- 2 Take the prong and line it up to the Neon LED making sure the prong is oriented in the correct direction. Carefully insert the pointy end of the prong into exposed wire ends. Try to have each prong insert into the center of each exposed wire end. The prong needs to be inserted as far as possible without using excessive force.



CORRECT: ✓



INCORRECT: ✗

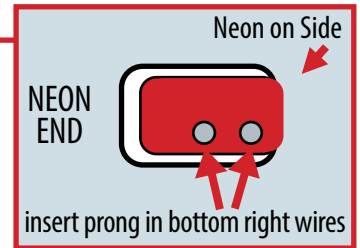
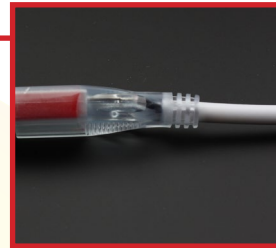
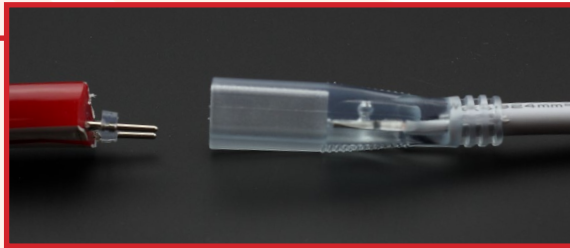


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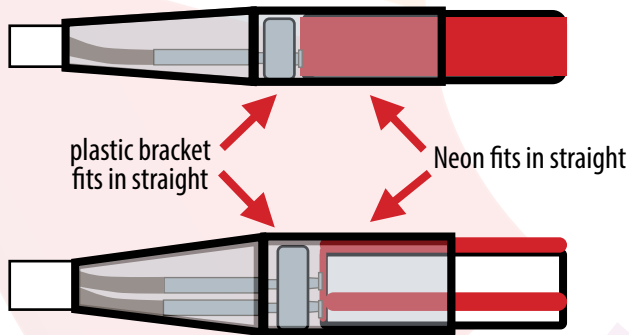
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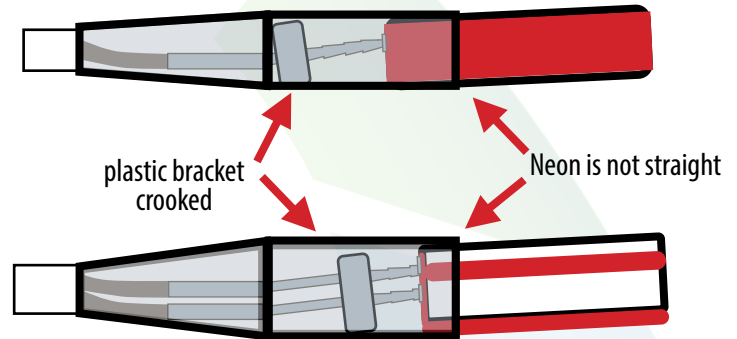
3 Then take the Neon LED with the prong and insert it into the power adapter connector in the correct orientation. The prongs will slide into the small barrels inside the connector.



CORRECT: ✓



INCORRECT: ✗



4 Take the plug on the power adapter and connect it into the wall outlet. **Warning: The opposite end of the Neon LED has not been sealed and must not touch any conductive material or electric shock or injury could occur.** If the Neon LED turns on, then the prong was inserted into the correct end of the Neon. If the Neon LED does not come on, then unplug the power adapter and repeat from step 1 to test the opposite end of the Neon. Tweezers or tongs maybe required to remove the prongs if they are stuck inside the connector.



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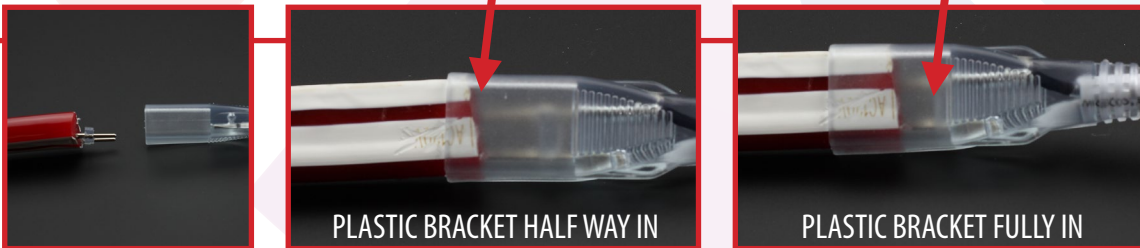
- 5 After confirming the lights work, **unplug the Neon LED from the wall outlet**. Carefully pull the power adapter off the Neon. The prongs are sometimes stuck inside the connector on the power adapter and require a set of tweezers or tongs to pull the prong out.



- 6 The test phase is now complete, and the Neon LED, prong and connector can be assembled for the last time. Take the prongs and reinsert them into the Neon in the correct orientation. The prong needs to be inserted as far as possible without using excessive force. Then take the connector end of the power adapter and fill it half way with PVC cement.



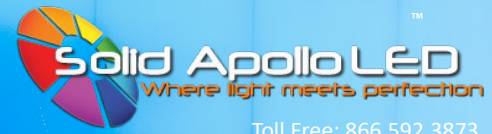
- 7 Take the Neon LED with the prong and re-insert it into the connector of the power adapter, making sure it is inserted in the correct orientation. Push the Neon and the connector together, until the plastic bracket on the prong touches the inner wall of the connector on the power adapter.



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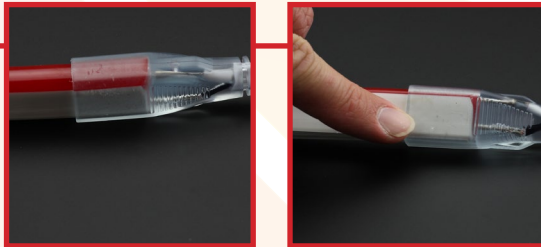
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Extra glue usually comes out at the connection. Take your finger and wipe the excess glue all the way around the connection point. Wipe extra glue onto the paper towel. Repeat the connection on the other side of the joiner by following steps 5 through 7. Please note the configuration is not complete until an endcap is added to the opposite end (page 12).



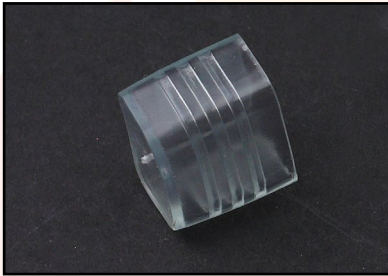
When configuration is complete, we recommend at least 24 hours of drying time before installing or using the Neon. Be careful when handling the neon while it is drying, as connections could come apart. We recommend taping the connections if the neon needs to be handled multiple times during configuration.

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Adding an Endcap:

In this section you will learn how to add an end cap to seal the end of the Neon LED.



- 1 Take the endcap and fill it half way with PVC cement. Insert the endcap on the end of the Neon LED until the inner back wall of the endcap is touching the end of the Neon. Sometimes the endcap has to be wiggled from side to side so the back wall of the endcap touches the end of the Neon LED.



- 2 Extra glue usually comes out at the connection. Take your finger and wipe the excess glue all the way around the connection point. Wipe extra glue onto the paper towel.

For drying, we recommend at least 24 hours of drying time before installing or using the Neon LED.



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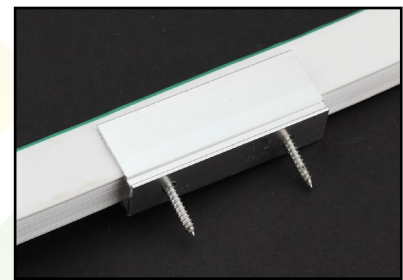
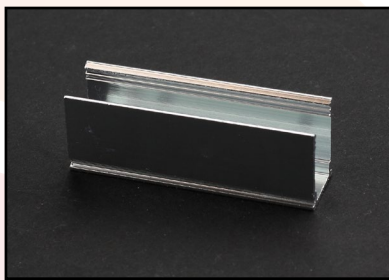


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Installing Mounting Brackets:

In this section you will learn how to mount the brackets for Neon LED. Each bracket includes 2 screws. Please note other types of screws and hardware maybe required depending on the surface being mounted to. Please ask your local hardware store for advice if you are unsure.

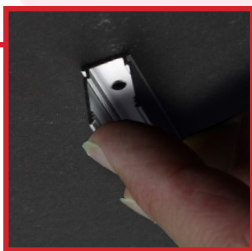
For straight lines, we suggest using a mounting bracket every foot for linear applications. If doing a large curve, make sure the Neon LED will not be bent in 90 degree bends. We recommend attaching the brackets to test how many will be needed to hold the desired curve, as several brackets could be required every foot.



Tools Required:

- Pencil
- Phillips Head Screwdriver
- Drill
- Drill Bit

- 1 Plan the location where the mounting brackets will be placed. Take the mounting bracket and hold it up to the location being mounted to.



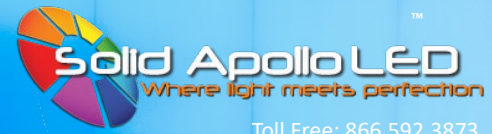
- 2 With your other hand take a pencil or marker and mark the screw locations.



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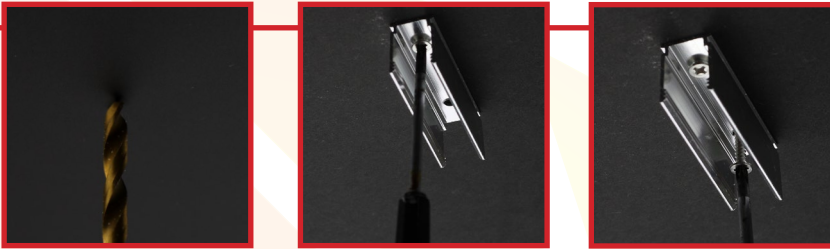
Neon LED Configuration



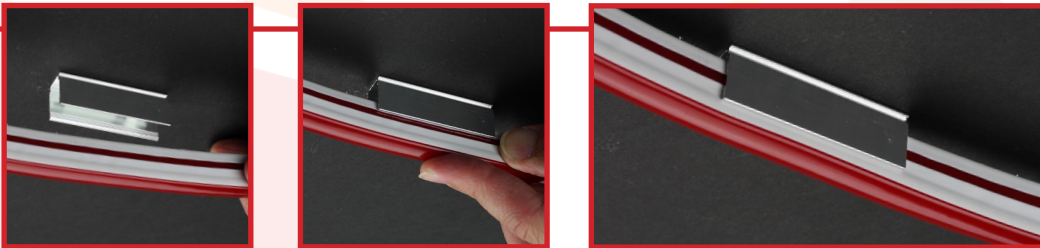
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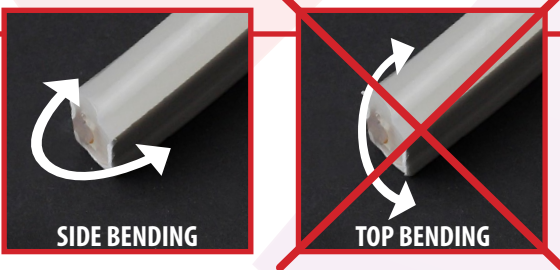
- 3 Remove the bracket, and drill pilot holes for the screws. Take a screw and the mounting bracket and begin inserting the first screw. Take the second screw and begin inserting the screw. Take a Phillips head screwdriver and screw in the first screw until it sits flush with the bottom of the bracket. Screw in the second screw until it is also flush.



- 4 Carefully press the Neon LED into the mounting bracket. Make sure the Neon is pressed in until it is touching the bottom of the inside of the bracket.



- 5 The 120V Neon LED is a **SIDE BENDING** (left and right) unit, bending in the opposite direction of the light output. Bending the Neon vertically (up and down) could split the contacts causing the unit to fail. If you have to adjust the Neon vertically, off the brackets for example, gently pull the unit off the brackets and without bending.



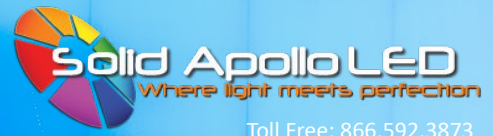
Technical Specifications:

Lumen's Total:	Up To 29700 Lm (Pure White Color)	Watts Per Spool:	400W
Lumen's Per Foot:	Up to 180 Lm (Pure White Color)	Dimmable:	Yes
Total LED's:	5220	CRI:	82
LED's Per Foot:	36	LED Type:	SMD 3528
Operating Voltage:	120V AC	Beam Angle :	180
Watts Per Foot:	2.42W		

If you have any further questions, please contact us by phone or email using the contact information at the top right of this page.

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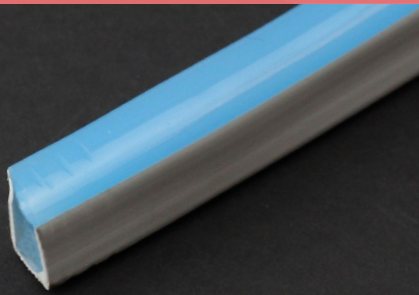
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Neon LED and Matching Parts:

Neon LED (2-Prong)

Neon LED



Connector



Prong



Power Adapter

