



INSTALLATION GUIDE

Food Trailer Roof Perimeter

IMPORTANT! No two installation scenarios are the same. Accent lighting is highly subjective. Not everyone shares the same lighting or installation quality goals. Some folks are OK with twisting wires together, others want to solder and heat shrink them. Some folks are OK with running wires where they may be seen or unprotected to save money/time, others want a tidy, clean install so they wrap plastic split-loom around all exposed cables. Some folks are OK with mounting their LED strips to whatever surface they can find, others want to take the time necessary to build out appropriate mounting surfaces to provide the best lighting effect on their vehicle and maximize the longevity of their lighting system. The point is it's not possible to provide all the materials necessary for all installation scenarios on all types of vehicles to meet everyone's quality goals. Our light kits provide the essential components needed for a high-quality, functioning lighting system. Installation of our light kit to your specific vehicle will however likely require additional items to make it look, fit and work the way you want. This is particularly the case with electrical wiring, switching functionality and mounting surfaces for the LED strips. We have created a list of additional items you may need. Here's the link: <https://www.boogeylights.com/other-items-you-might-need/> . While we offer them for sale you can also find these items locally. We urge you to review this information before starting your install.

BENCH TEST YOUR LIGHTING COMPONENTS FIRST!

We know this takes a few extra minutes, but we **STRONGLY** suggest you bench test your lights AND your controller / switches on a table before doing anything further. Test all of them. While we test every light strip and controller before shipping, bench testing your lights will eliminate the possibility of any problems with the lights or controller before mounting. It also lets you know everything is working properly. Also, the process of bench testing gives you an opportunity to understand the wiring system without interference from other wires, connectors and cables. You can use any 12vdc battery to do this (e.g. car battery, motorcycle battery, lawn tractor battery or 12vdc power supply). If you're not sure how to bench test, download this pdf: <https://docs.boogeylights.net/?wpdmdl=1305> . Bench testing takes an extra 10 or 15 minutes. It's simple to do and can potentially save you hours of time and frustration down the road.

Did we mention the importance of bench testing every LED strip and controller first?

THIS IS A GUIDE. NOT A HOW-TO. It's simply not possible to provide detailed instructions for all installation scenarios. Far too many variables. The information in this manual is intended to be used as a guide. It is not a detailed step-by-step how-to installation manual. We do not spell out every single step along the way. We cover the essential steps related to installing this kit. Beyond that we assume the installer has the skills, knowledge and tools necessary to do the work using the information we provide here as a guide. You may need to vary your installation and/or make adjustments based on your vehicle. If you're unsure about how to do the installation – particularly the electrical components – we urge you to seek assistance from someone who has those skills.

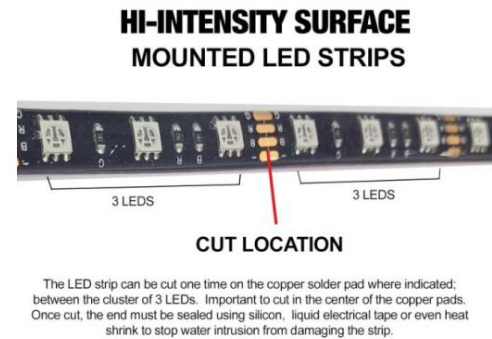
YOU MUST HAVE AN UNDERSTANDING OF 12V POWER. An essential skill with installation of any Boogey Lights LED products is knowing how to correctly wire the product to a 12vdc circuit. This includes understanding the importance of having a properly sized fuse at the power source, polarity, how to properly seal an electrical connection, using properly sized wire gauge for the load, measuring voltage and measuring the additional amperage draw you're adding. If you are uncertain or unfamiliar with any of these concepts, we urge you to ask someone who has the knowledge to assist you. Electricity is unforgiving.

MOUNTING ALUMINUM CHANNELS.

If you purchased the optional aluminum channels with diffusers, be sure to read the Aluminum Channel Mounting instructions included with this kit. **This is important if you want your LEDs to last.** You can download that document here as well: <https://docs.boogeylights.net/?wpdmdl=1351>

We recommend riveting the aluminum channels to the trailer instead of screwing. The reason is the rivets will provide a smooth surface for the LED strip to lay on top of. Depending upon your trailer's build structure, you can usually use a 1/2" or 5/8" long rivet (1/4" diameter). We recommend a large flange pop rivet for the extra holding power. If you're going to use screws, make sure you're using either flat heads or round heads. Do not use hex or pan head screws. The reason is the sharp edges of the hex/pan head screws can work their way through the bottom of the LED strip and into the PCB which will cause the LED strip to short out. More about this issue is in the Aluminum Channel mounting instructions referenced above. Did we mention the importance of reading this document before installing?

CUTTING YOUR LEDS- If you need to cut your LED strip you can do so as long as you cut in the proper location – which is every three LEDs as shown in the below photo. Cutting incorrectly could damage your lights and is not covered by the warranty. If you cut the strip, be sure to use shrink tubing or Lexel to seal the cut end. You can also use silicone found at your local hardware or RV store. If you do need to cut your LED strip, we strongly suggest doing so **BEFORE** you mount the strip.



MOUNTING THE LED STRIP

Follow these steps for mounting your LED strips:

- The area where you are mounting the LEDs has to be clean: free of all dirt, oil or anything that might affect the LED from sticking. You only get one opportunity to mount the LEDs so it's critical the area be prepared properly.
- Use rubbing alcohol to clean the area where you are going to mount the LED strip. Be sure to let the alcohol dry completely before proceeding to the next step. (Note: Do not use acetone or similar cleaner).
- Next, use the 3M Adhesion Promoter supplied with your kit to "paint" on the promoter where you are going to mount the LED strip. ***This is an important step. Do not bypass.*** Allow the promoter to dry for 60-90 seconds.
- Peel off the red backing tape that protects the 3M adhesive tape on your LED strip. Be careful not to let the tape touch anything. The 3M backing tape on these LED strips are one-use only. They cannot be reused.

Do NOT bend the LED strip in a radius of less than 2 inches.



Do NOT bend the LED strip on a horizontal plane.



Carefully push the LED strip to the area you have prepared. You will want to apply only enough pressure to the strip to make sure it is firmly mounted. *You only get one opportunity to do this.* Once the LED strip touches a properly prepared surface that has been promoted, that LED strip will be very difficult to remove. Moreover, if you do remove the LED strip, the strip cannot be used again without adding another layer of 3M adhesive tape to the back.

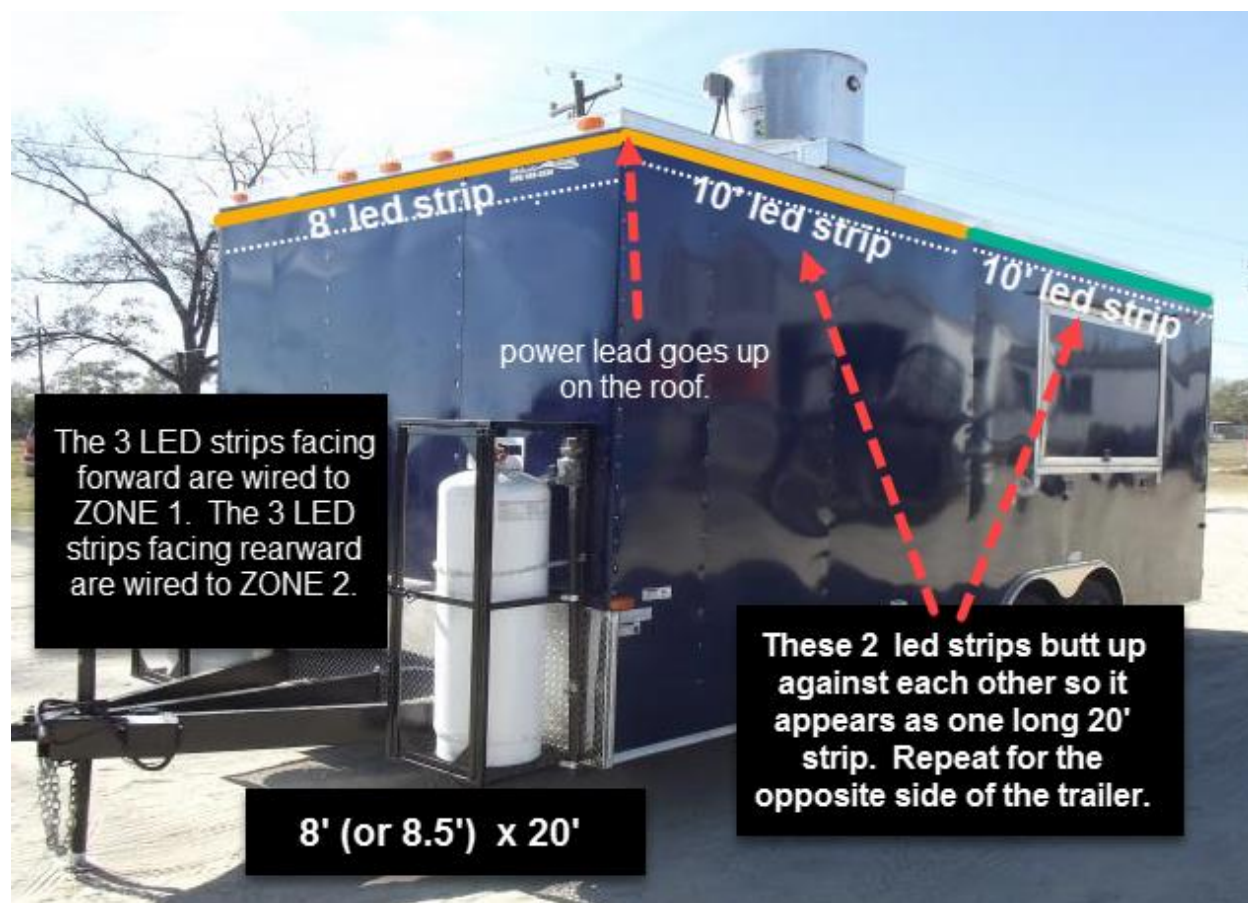
DO NOT press too hard as too much pressure can damage the LEDs and connecting wires in the strip. Also, do not pull, stretch or twist the LED strip. Too much tension on the strip will also damage the LEDs such that some of the LEDs in the strip will not illuminate. The strip must be mounted flat against a single continuous mounting surface, in a straight line. Really important that the ENTIRE STRIP be stuck to the mounting surface and that you NOT attempt to span across multiple mounting surfaces.

MOUNTING ALUMINUM CHANNELS

If you purchased the optional aluminum channels with diffusers, be sure to read the Aluminum Channel Mounting instructions included with this kit. **This is important if you want your LEDs to last a long time.** You can download that document here as well: <https://docs.boogeylights.net/?wpdmdl=1351>

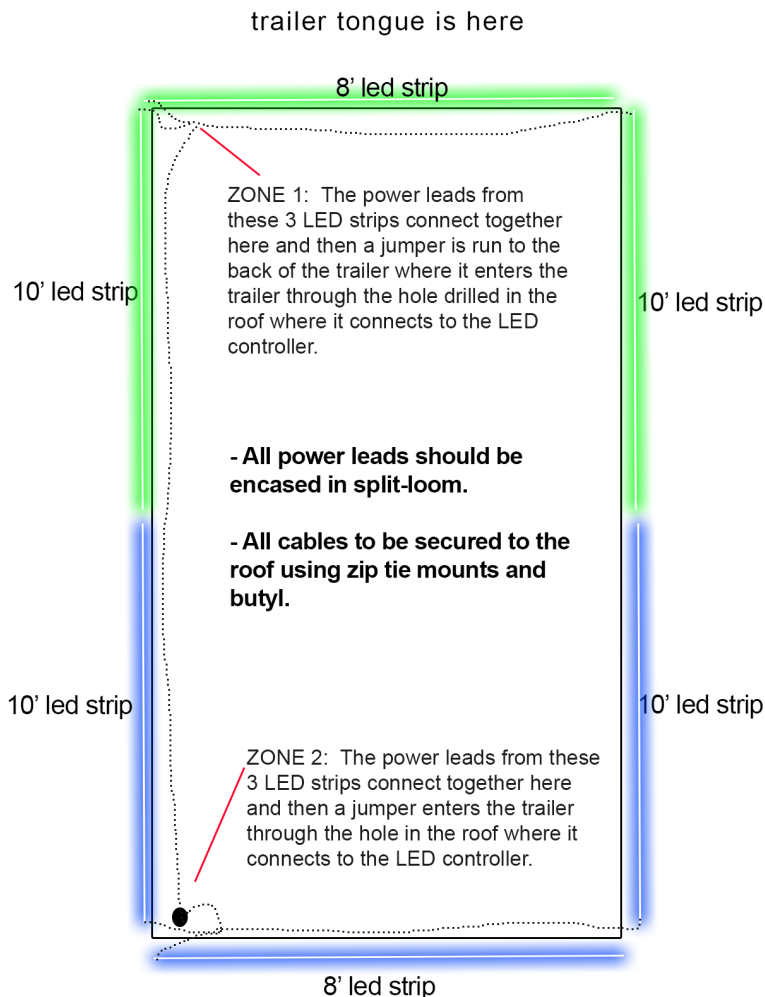
LED PLACEMENT

We recommend mounting the LED strips (and the channels if purchased) as high up on the trailer side as you can; ideally flush with the roof or as close as you can get it. It's important though that the mounting surface be smooth, clean and one continuous flat surface. Do not attempt to span gaps with the LED strip. See the photos and diagrams below for placement on an 8' x 20' food trailer.



Here's a view looking down on top of the trailer. We use feeder cable to connect the front three LED strips to the rear. Use the included crimp on cap connectors to make your power lead connections. It's important all exposed power lead cables be encased in wire split-loom. Our kit includes ¼" split loom for this purpose. Also, be sure to anchor all cables down to the roof. We have included Butyl tape and zip tie mounts for this purpose. First put the zip tie mounts down (use 3M adhesion primer first – or even better – rivet or screw them into the roof) and then once the cable is secured to the zip tie mount, place Butyl tape on top of it. Wind resistance against the cables as the trailer moves down the road will tend to pull the cables up so it's important to make sure it's anchored securely. Plus, if you did use a rivet or screw to hold down the zip tie mount, the butyl tape will seal that hole.

view looking down on the trailer top



Example of an 8' x 20' Food Trailer

Here's a photo of a food trailer installation we installed. This customer choose to have us install the mini T12 aluminum channels first, then mount the LED strips to the aluminum channel (with the plastic diffuser snapping in on top). Whether you use the aluminum channel or not the installation is the same in terms of the lighting configuration. We recommend wiring the front 3 LED strips to ZONE 1 and the rear 3 LED strips to ZONE 2. Doing so provides some interesting visual effects options to attract attention.



Here's a view of how we mounted our DUAL ZONE LED controller inside the food trailer. Both the LED controller and the power supply fasten to the wall using the included 3M Reclosable Fastening system. We recommend locating the controller and power supply somewhere you can get to it like shown in this photo. Note the location of the two 12vdc blade fuses (one for each lighting zone). They need to be accessible as well. We include a wiring diagram at the end of this document.



Remember to seal all holes you drill in the trailer. Use silicone sealant or similar for this.

Before closing/wrapping all electrical connections we strongly suggest testing the lighting system. Nothing is more frustrating than closing up all connections and making it look nice only to find out moments later something isn't working correctly. Don't ask us how we know.

Additional Resources

- How to Videos: <https://www.boogeylights.com/how-to-videos/>
- Troubleshooting: <https://www.boogeylights.com/trouble-shooting-guide/>
- Installation Resources: <https://www.boogeylights.com/installation-resources/>
- How to Bench Test: <https://docs.boogeylights.net/?wpdmdl=1305>
- Amperage Data: <https://docs.boogeylights.net/?wpdmdl=1137>
- Quick Search: <https://www.boogeylights.com/quick-find/>
- GEN2 LED Controller Wiring Diagrams + Operating Info: <https://docs.boogeylights.net/?wpdmdl=1163>
- GEN2 RF Wireless Remote Operating Info: <https://docs.boogeylights.net/?wpdmdl=1164>
- GEN2 Bluetooth APP Operating Info: <https://docs.boogeylights.net/?wpdmdl=1169>
- GEN2 Bluetooth APP Quick-Start: <https://docs.boogeylights.net/?wpdmdl=1167>

Support

- Phone: 800.847.1359 (M-F, 9-6 Eastern)
- Text: 859.955.8155
- Open a Support Ticket: <https://www.boogeylights.com/email-us/>
- Online: 24/7 resources at <https://www.boogeylights.com/installation-resources/>
- How to Make a Warranty Claim: <https://www.boogeylights.com/make-a-warranty-claim/>

Warranty

The Boogey Lights® warranty requires an original sales receipt from Boogey Lights or an authorized dealer. It covers product replacement only, not labor or other costs. Full details:

<https://www.boogeylights.com/warranty/>.