RULE THE NITE™

BOOGEY LIGHTS

Family Owned Motorsports Lighting Since 1989!

INSTALLATION GUIDE

WRECKER BODY LEDS

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 document 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 as a guide. You may need to vary your installation and/or make adjustments based on your vehicle. This is particularly the case with led strip mounting locations, electrical wire routing, electrical connections, electrical load sizing and switching. 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 product 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.

RGBx / Multi-Color : If you purchased the RGB multi-color version of our kit a Heavy Duty Bluetooth / RF Combo wireless controller is included with your kit. We include a wiring diagram with the controller. Please make sure you read the instructions included with the controller. All RGBx multi-color LED strip power leads must be routed back to the controller.

All **Boogey Lights®** LED strips are **COMMON CATHODE LEDS**. They share a common ground and if you use a controller, they will only work with our positively switched controllers. Most LED strips on the market today are COMMON ANODE because the controller technology used to power them is less expensive to manufacture. However, they're not nearly as bright and are an overall inferior design when compared with COMMON CATHODE LEDs.

Typical Placement

Typical placement of the LED strips is along the sides of the wrecker or service truck **in the existing side body channel** commonly found on most wreckers today. This is particularly true for our LOW PROFILE LED strips. In many cases, our LOW PROFILE LED strips can be used as a direct replacement for factory installed lights using the existing wiring, access holes and even switches (assuming you're using single color LED strips). If your truck doesn't have that channel to protect the LED strip, it's important to mount the LOW PROFILE LED strip on aluminum channel with a diffuser cover to protect the LED strip. If you purchased our HEAVY DUTY LED strips, you want to make sure the LED strip will fit into that side body channel without damaging the strip. Do not force the strip into the channel. You'll notice too that our Heavy Duty LED strips include a screw mounting location at the end of each strip to help secure the strip to the truck.

LED Strip Type / Where and How You Mount Matters

Where are how you mount these LED strips impacts the warranty we provide. We manufacture two styles of LED strips for wrecker body lighting. One is our LOW PROFILE (LP) LED Strip. The other is our HEAVY DUTY (HD) LED Strip. The default is our LOW PROFILE LED Strip. Which style you choose depends on where on the truck you're mounting it. If for example your truck has a built-in indentation or channel (typical of most Miller truck bodies for example) where the LED strip is protected, you can use our LOW PROFILE strip. If however your truck doesn't have that indentation to protect the LED strip you either need to mount the LED strip inside an aluminum channel with cover OR, use our HEAVY DUTY LED version instead. This is especially important if you're operating in extremely cold temperature markets where roads are treated with salt/chemicals. Our Heavy Duty (HD) LED strips will hold up much better. They're more expensive and take longer to install but they're much more durable than our LOW PROFILE LED Strips. If durability isn't a factor and/or budget is an issue, then our LOW PROFILE LED strips are the easiest to install. Just be aware that we do not warranty our LOW PROFILE product if not mounted according to our directions.

Add LEXEL to LOW PROFILE LED Strips Mounted to the Side of a Wrecker/Truck

For LED strips that are installed flat against the side of a service truck or wrecker like these are, we strongly suggest smearing some LEXEL clear adhesive on the high side of the LED strip. We offer LEXEL as an option with this kit but you can purchase it elsewhere. Doing so will help protect the high side of the LED strip from water intrusion. LED strips that are mounted on the side of the vehicle tend to allow liquids to 'pool' on the high side of the strip. If that liquid is allowed to sit there, it will eventually work its way in-between the PCB and the protective coating. Once water intrudes into the circuitry, it can cause a short.

Do Not Install Low Profile LEDs Under Tension

When installing Boogey Lights Low Profile Wrecker Body led strips it's important to simply unroll the LED strips and push them to the wrecker body surface AS YOU GO versus pulling on the LED strip and pushing the strip to the surface when it is tight. This is a super important concept to understand if you want your lights to last. The natural tendency is to pull tightly on the LED strip to keep it straight and level when mounting horizontally BUT doing so means the solder joints in the LED strip will be installed under maximum tension from day one. Mounting the strips this way doesn't allow any room for the solder joint to move, contract or expand as needed over time. LED strips installed this way will fail prematurely at that solder joint every time. Not a matter of if but when. Strips that fail due to improper installation are not covered under warranty

Attaching Your Light Strips

<u>Mounting Steps:</u>

1) Clean the mounting surface with alcohol towels first. Every wrecker body light kit includes 3M adhesion promoter. Use the supplied 3M adhesion promoter (aka 'primer') to prepare the surface where you'll be attaching the strips. The 3M adhesion promoter is used to enhance the adhesion strength of the 3M tape on the back of the light strips and makes a permanent bond. **YOU CANNOT SKIP**

THIS STEP. Always apply 3M Promoter to any surface Boogey Lights® LED strips will be mounted.

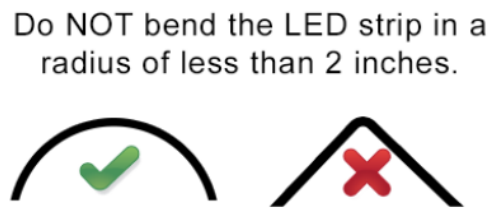
For situations where you are affixing Boogey Lights® to a surface where heavy oils or grease are present, a "degreaser" solvent such as acetone may need to be used first. If you use acetone (or any other degreasing solvent) you must still apply the 3M Promoter. Acetone is not a replacement for promoter. In addition, if you use acetone to clean a heavy oiled or greased surface, you will still need to follow up with an alcohol cleaning to help ensure any residue or film from the acetone is removed. This is because acetone (and most other degreasing solvents) will thin the promoter as well as break down the adhesive in the tape greatly reducing the tape's stickiness. Any surface first cleaned with acetone must also be cleaned with alcohol and then thoroughly dried before painting on promoter.

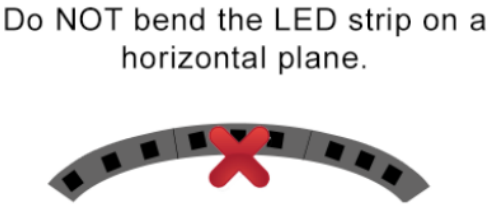
For best results, attach your lights within one hour or less after the promoter has been applied.

2) We suggest you position the LED strip before removing the tape backing. When ready, remove a small amount of tape backing from one end of the strip while holding it in position. Continue to peel it off and press as you go to ensure the tape doesn't stick prematurely to the wrong place.
The promoter used will cause immediate and permanent adhesion on contact with the 3M tape so be sure to **TAKE YOUR TIME**. You must get it right the first time for a guaranteed trouble-free installation.

3) If you're using our single-color LED strips, make sure you are not over-loading the circuit they are attached to. As with all lighting solutions, each LED strip should be properly fused. If for any reason there is a dead short in the strip, you want power to that strip to be cut off to avoid over-heating and potentially burning.

4) For LED strips that are installed flat against the side of a vehicle as these are, **we strongly suggest smearing** some LEXEL CLEAR ADHESIVE on the high side of the LED strip. Doing so will help protect the side of the LED strip from water intrusion. LED strips that are mounted on the side of the vehicle will tend to allow liquids to 'pool' on the high side of the strip. If that liquid is allowed to sit there for a period, it will eventually work its way in-between the PCB and the protective coating. And, if that liquid is caustic, it can erode or eat away at the Epoxy/Poly-Urethane coating allowing water intrusion into the circuit. LEXEL is a petroleum based, clear drying adhesive that can be purchased online or locally. We offer it on our website too as a convenience to customers.





Bending: While these LED Strips are designed to take a beating, it's important you do not bend the strips in a radius of less than 2". Also, do not bend the LED strip on a horizontal plane. Doing so will damage the circuit traces on the PCB board causing the LED strip to fail and voiding the warranty.

WARRANTY

Warranty info can be found on our website at https://www.boogeylights.com/warranty/ . The warranty is a product only warranty. It covers the lights (or remote control) themselves. It does not cover reimbursement for labor or other charges involved in replacing the product.

Details on how to file a Warranty Claim can be found here: https://www.boogeylights.com/make-a-warranty-claim/. If you want warranty coverage DO NOT REMOVE OR UNINSTALL THE PRODUCT until after this warranty review process has been completed. The process for filing a Warranty Claim is detailed on that claim form.

PLEASE NOTE: If you want warranty coverage on our LED Strips, you must follow these instructions before installing:

1. Bench test each LED strip using a 12vdc power supply. Confirm that each LED diode in the strip is lighting as expected.

2. Visually inspect the LED strip to make sure it's not damaged.

Do not install an LED strip if it's not lighting properly and/or appears damaged/defective in any way. Instead, contact Boogey Lights by opening a support ticket at https://www.boogeylights.com/contact-us/ . We will respond promptly.

Assuming you've performed the above two steps, and the strips are working as expected, be sure to follow the mounting instructions included with your order.

Failure to follow these instructions will void the warranty.

Additional Resources

- Product Page: https://www.boogeylights.com/wrecker-body-led-lights/
- 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
- Cutting Your LEDs: https://docs.boogeylights.net/?wpdmdl=964
- 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. Register your purchase at: https://www.boogeylights.com/warranty-registration/. Full details: https://www.boogeylights.com/warranty/.