

INSTALLATION INSTRUCTIONS FOR CAR LED LIGHTING KITS

AUTOMOTIVE LED LIGHT KITS INTERIOR & EXTERIOR

Under-Dash, Under-Seats, Under-Glow, Fender Wells, Grill



Motorsports Accent Lighting Since 1989!

RVs Motorcycles ATVs Boats Golf Carts Cars Trucks

Excellent ★★★★★ Trustpilot



800.847.1359

www.BoogeyLights.com

Thank you for purchasing genuine Boogey Lights® LED Lighting products! We know you're anxious to get started but we recommend you take the time to read through these instructions. For installation support refer to www.BoogeyLights.com or give us a call at 800.847.1359 for assistance.

BEFORE YOU START

Installing our Automotive LED Light kits are relatively simple if you do some pre-planning. We suggest you carefully review the following before you begin:

1. It's simply not possible to provide detailed instructions for all installation scenarios. The information in this manual is intended to be used as a guide. You may need to vary your installation based on your unique situation. This is particularly the case with electrical wiring and LED placement.
2. Make sure you have ample area in which to work and that the area is protected from rain or cold temperatures. The 3M adhesive tape works best if applied when the air temperature is above 40 degrees (and of course is DRY).
3. Make sure you have adequate surface area where to affix the LED light strips and that placement of those strips won't be in an area that is prone to a direct strike from road debris or other moving parts. In addition, the area where you are attaching the LED strips need to be clean and smooth; free from dirt, wax, grease, oils or other contaminants. If not, the LED strips won't stick. If you're mounting the LEDs to the bottom of your car and the bottom is under-coated, you'll need to mount the LED strips to aluminum flat stock (or similar), then affix the aluminum flat stock + LED strip to the bottom of your car.
4. Make sure you know where your electrical connections will terminate. If you're installing an interior light kit, that location is usually the fuse block; typically on the driver's side of the car. If you're installing an exterior kit, the location can also be the interior fuse block although some customers prefer to connect directly to the battery in the engine compartment. If your car kit includes a LED controller with it, make sure that controller is mounted in an area that is dry and has air flow around it.
5. If you are adding additional LED strips beyond the LEDs included with our kits pay attention to the number of LEDs you are lighting and the total amps you will be drawing. Our PLUS SERIES controllers are capable of powering up to 300 LEDs (5 amp fuse). Our SUPER SERIES controllers are capable of powering up to 900 LEDs (10amp fuse). Our HEAVY DUTY SERIES controllers are capable of powering up to 1800 LEDs (20 amp fuse).
6. Bench test your setup. We know this takes a few extra minutes but we STRONGLY suggest you bench test your lights AND your controller on a table before doing anything further. 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. 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). Bench testing takes an extra 10 or 15 minutes. You can also use a common 9vdc battery to test your lights if you don't have a 12vdc bench testing power source available (the lights won't be as bright). It's simple to do and can potentially save you hours of time and frustration down the road. Please take our advice. Bench test your LEDs AND controller before mounting.

BTW ... Did we mention we suggest bench **testing your LEDs and** controller before installing? You would be surprised at how many people don't take our advice on this step.

SELECTING THE LOCATION FOR YOUR LED CONTROLLER (if included)

If your car kit includes an LED controller, here are some things to keep in mind when choosing where to mount your LED controller:

- While water resistant, the LED controller is not intended to be submerged in water. Mount it someplace where it will not be subjected to the elements.
- Make sure there is enough air flow around the controller. Do not mount it inside a small sealed box without adequate air flow. Doing so will almost certainly mean the controller will shut down (or the lights will dim) when it gets too hot.
- The wireless remote control operates using radio signals (RF or Bluetooth depending upon the model). Where you mount the controller can impact the effective range of the wireless remote. For example, mounting the controller near other radio devices (e.g. wireless access point) or mounting it in a compartment that is encased in metal may impact the effective range of the remote control. While most automotive installations aren't an issue if you're concerned about the reception, we suggest doing some testing of where you mount the controller before permanently mounting it.
- The short, yellow wire coming out of some of our LED controllers is an RF antenna. Make sure that wire is not bundled with other wires or pinched. It should be hanging free and open. Also, do not attempt to extend or cut the antenna wire. Doing so will make reception worse, not better.

Powering Your LED Light Kit

- Included with the Car Kit is a Buddy Fuse Extender. This extender plugs into the fuse box and allows you to connect the positive wire from the LED controller to 12vdc power. Choose a circuit that is labeled 5 or 10 amp. Remove the factory fuse, insert that fuse into our fuse extender next to the included fuse. Crimp the red power wire to the red power wire on our control box using the blue butt connector. Next, crimp the included ring connector to the black ground wire on our controller and locate a suitable bare metal surface or existing grounding screw and secure the wire. Once the lights are wired to the controller you can insert the buddy fuse extender into the fuse block.

If your car kit doesn't have an LED controller (e.g. single color kit with a simple push button switch), the same applies except that instead of the LED controller, you'll be using the push button switch.

- You can also connect our controller directly to your 12vdc battery. The red wire coming from the LED controller connects to the positive terminal and the black wire connects to the negative terminal on your power source. If you plan to extend the power lead from your battery make sure you use 16 or 18 gauge automotive wiring and insert a fuse link within 6 inches of the power source (additional fuse link not included).

CUTTING THE LED STRIP- 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 this photo. Cutting incorrectly could damage your lights and is not covered by the warranty. If you cut the strip, be sure to use heat shrink tubing to seal the cut end. You can also use silicone found at your local hardware store. A little dab will do you. If you do need to cut your LED strip, we strongly suggest doing so BEFORE you mount the strip to your car.



Cut Locations

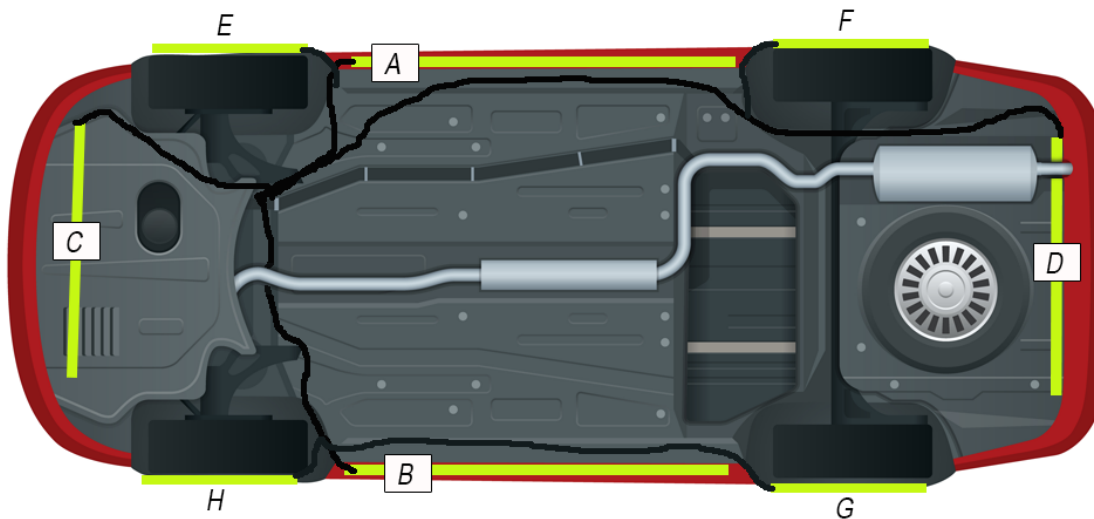
LED STRIP LOCATION & PLACEMENT

CAR INTERIOR LIGHT KITS

- Typical placement of our LED strips are underneath the dash (in the foot wells), under the seats or inside the trunk. It's totally up to you. Depending on the kit purchased you may be able to light up multiple areas.
- The LED strips can be attached with the 3M tape or loosely zip tied to existing wiring under the dash. When using the 3M tape, make sure you are preparing the surface in accordance with the instructions we provide. Note: If you are using zip ties make sure you are not pulling them too tight such that you crimp or damage the PCB board. For under seat installation be mindful of moving components. Keep power lead wires away from seat track or motorized equipment. Power lead wires can be routed along the dash, center console or under interior molding.

CAR EXTERIOR LIGHTING

We offer several exterior lighting kits: Under-Glow, Fender Wells, Grill Area. And, of course, you may elect to install our LED light strips in other locations on your car too. Here's a diagram of typical LED strip placement for popular exterior lighting scenarios.



LED Strips A & B: Included with Base Under-Glow Kit
LED Strips C & D: Optional Front, Grill and/or Rear Light ADD-ONS
LED Strips E - H: Optional Fender Lighting ADD-ONS.

All power leads run back to the same location where the controller is mounted.

- Our base under-glow light kit is usually installed under each side of the vehicle either along the frame or under the rocker panel. It really is up to you. The surface must be smooth and continuous. If your vehicle is undercoated, you will need to mount some flat or angle aluminum first as the 3M tape will not adhere to the oily surface.

- Make sure you know where your electrical connection will be and how you are going to route the power leads from the power source to your LEDs. If you ordered a kit with a controller that control box needs to be located inside the vehicle out of the weather.
- Add-ons can be installed along the frame to extend the under-glow effect, under the front or rear bumpers, inside the grille or even in the engine bay. Our Fender Kits can be installed inside the fenders shinning down onto the tire, on the inside shinning out onto the tire and ground or at the outer edge of the fender to highlight the wheel. Really – it's up to you. Just be mindful of the location so debris thrown from the road will not impact the strips.
- Make sure the power leads that attach to each LED strip are securely fastened to the car body, frame or other support. The power leads cannot be free to move/vibrate. If they are, that movement will damage the LED strip and likely make it unusable.

MOUNTING

Once you have your LED strips cut (if necessary) and you know where you are going to attach them, follow these steps:

- 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 isopropyl 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 without reading the section "A Word About 3M Tape & 3M Promoter").
- Next, use the 3M Promoter tubes supplied with your kit to "paint" on the promoter where you are going to mount the LED strip. See the note below (on page 6) about the proper way to use promoter. ***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.
- Use ZIP TIE mounts and ZIP TIES to affix the left over power lead cable running to the LED strip to the car. You don't want to leave this power lead cable hanging. Doing so will place too much stress on the LED strip itself causing it to fail.

A Word About 3M Tape & 3M Adhesion Promoter (aka Primer)

All Boogey Lights® LED strips have 3M Tape backing affixed to them. This 3M Tape is designed to make a more-or-less permanent bond between the LED strip and the surface to which it is attached. When properly prepared, 3M Tape can be affixed to polyethylene, polypropylene, ABS, PET/PBT blends, concrete, wood, glass, metal and painted metal surfaces. To make this bond you must however prepare the surface to which the LED strip will be affixed. You do this by first cleaning the surface with isopropyl alcohol (50/50 mixture with water) and then painting on 3M Promoter. **YOU CANNOT SKIP THIS STEP.** Always apply 3M Promoter to any surface Boogey Lights® LED strips will be mounted. The promoter acts as a primer that ensures maximum adhesion. Porous surfaces may require 2 applications of 3M Promoter for uniform coverage and good adhesion. If you are going to add a second coat, allow the first application of promoter to dry before applying the second coat.

BREAK THE GLASS! The promoter tubes supplied with Boogey Lights® kits need to be squeezed in the middle of the tube to release the chemical to the applicator top. Simply press in the center of the tube until you feel the glass break. At that point the liquid promoter will saturate the applicator top and you can then paint on the promoter.

Clean up: 3M Promoter can be removed with isopropyl alcohol.

Using Acetone on Heavy Oiled or Greasy Surfaces

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.

Important Reminder! The 3M adhesive tape on the back of Boogey Lights® LED stripes are one-use only. If you apply them to a surface that has not been properly prepared, the holding power of the 3M adhesive tape will be greatly diminished perhaps making the light strip unusable. If you take the time to properly prepare the surface in accordance with our instructions here, you won't have any problems mounting your LEDs.

NOTE ABOUT RF KEY FOBS or M7 REMOTE PAIRING WITH THE CONTROLLER

If you purchased a kit that includes an LED controller that has a wireless remote control (either RF M7 or KEY FOBS), they come already paired with the KEY FOBS in the box. If you accidentally press the PAIRING button on the controller during the installation process (when the controller is powered ON) you will delete the pairing settings between the controller and the remote. You will need to PAIR the controller with the KEY FOBS. The process to do this is simple. You can also find this information online in our INSTALLATION RESOURCES section.

NEED HELP? HAVE MORE QUESTIONS? Links to all installation information including remote control functions and APP control instructions can be found on our website in the **INSTALLATION INSTRUCTIONS** section (<http://www.boogeylights.com/installation-instructions.html>) If you need additional assistance or have questions, we offer a number of options. If it's during regular business hours you can call us TOLL FREE at 800.847.1359. If it's after hours, you can check our website installation section. We try to include as much information as we can online for 24x7 access. You can also send us an email by visiting Customer Care -> Contact Us. Even when we're closed we often check email in the evenings, weekends and holidays. We also have a lot of helpful information, including videos, on our website at www.BoogeyLights.com.

WARRANTY INFORMATION

The Boogey Lights® original-owner warranty is only available to customers who purchase genuine Boogey Lights® product from this website or an authorized Boogey Lights® dealer and present the original sales receipt from that dealer. **THIS WARRANTY IS NULL AND VOID IN THE ABSENCE OF AN ORIGINAL SALES RECEIPT FROM AN AUTHORIZED BOOGEEY LIGHTS® DEALER.**

This warranty is a product-only warranty and does not cover reimbursement for labor or any other charges you may incur having a defective product replaced.

RMA Authorization Required For Defective Returns

Defective product must be returned for inspection and warranty approval prior to replacement. Product that is physically damaged is not eligible for replacement under warranty. In the event a warrantied product is discontinued and no longer available, we may elect to replace the product with the newest equivalent or in some cases, elect to refund the cost of the product at our sole discretion. All returns must clearly display an RMA authorization number on the outside of the package. An RMA number will be issued by requesting an RMA number via email (select the appropriate option from the drop down box) OR by calling our office at 800-847-1359 and selecting option 2. If calling our office, please be sure to have your order number handy which will be printed on your receipt. Any shipment received at our offices without an RMA authorization number clearly listed on the package will be refused and returned to sender.

Automotive LED Lighting : Our automotive car LED light kits have a one-year original owner warranty. . The warranty does not cover damage to the remote control units, LEDs, connectors or the strips resulting from improper handling, installation, misuse or abuse as determined by Boogey Lights®. This warranty is not transferable.

REGISTER FOR WARRANTY

You can register your purchase for warranty by visiting our website at <http://www.BoogeyLights.com/warranty-registration.html>. This is especially important if you purchased this product from someone other than the Boogey Lights website directly.

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