



INSTALLATION GUIDE

Pickup Truck Toolbox Light Kit

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> . We also have a video: <https://www.boogeylights.com/how-to-bench-test/> . 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 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.

MOUNTING LOCATIONS

Where you mount the LED strips to your toolbox is up to you. Keep in mind the strips need a smooth, flat, rigid surface to mount to – and of course, you need to make sure the lid can close/open properly without damaging the LED strip. Below is a diagram of the locations we typically suggest.



1. This location will work on some but not all toolboxes. It depends on how wide the toolbox lid is. The reason some like to mount the light here is because it shines directly downward when the lid is fully open. On the product page we have an example of this style of installation. It works well and provides a ton of light directly into the toolbox area. We were able to install the aluminum channel too in this location.

2 and 3. Both of these locations will work on just about any toolbox lid. In both cases, the light strip is mounted flat to the bottom of the toolbox lid itself so when the toolbox lid is open as shown in this diagram, the light shines directly out. The lights are so bright that having enough light is generally not an issue but you do need to be aware that the lights are shining straight out unlike position 1.

Mounting the LED Strips

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 is prepared properly.
- Use 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.



Before installing, we suggest dry mounting the LED strips to confirm correct product fitment. Is the strip where you want it? Is the power lead long enough to reach the connection point? **Keep in mind you only get one opportunity to do this.** Once the LED strip touches a properly prepared surface, that LED strip will be 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. 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. 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.

ALUMINUM CHANNEL MOUNTING

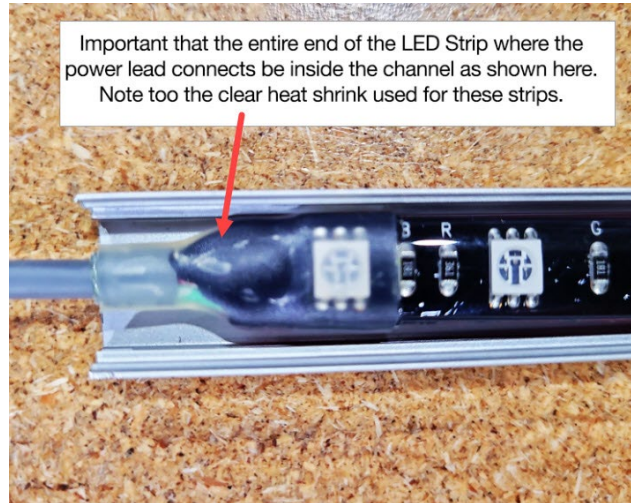
If you purchased the optional Aluminum Channel with Plastic Diffuser, we include 3M VHB tape + 3M Adhesion primer to secure the aluminum channels to the toolbox lid. While you could use rivets or screws – they're not practical for most applications. No one wants to drill holes into their toolbox lid. The 3M tape does a nice job of securing the aluminum channels to the toolbox lid. Then, once the Aluminum Channel is secured to the toolbox lid, you can easily mount the LED strip to that channel.

CUTTING THE CHANNELS & DIFFUSERS

We ship these channels (and diffusers) in lengths of 39" or 78". In almost all cases you will have to cut them. No way around it. They are easy to cut with a band saw or hack saw but be sure to use a fine-tooth blade. The plastic diffuser can chip if you're not careful.

LED STRIP POWER LEAD CONNECTION MUST BE INSIDE THE CHANNEL

All of our Low-Profile LED strips have a power lead hard wired to the end of the LED strip. Doesn't matter which color configuration. They all are the same in this regard. It is super important to make sure the connection between that power lead and the LED strip is safely inside the channel. DO NOT allow that connection to hang outside of the channel. If you do, it will almost certainly fail (not covered under warranty). See photo below of what we are referring to.

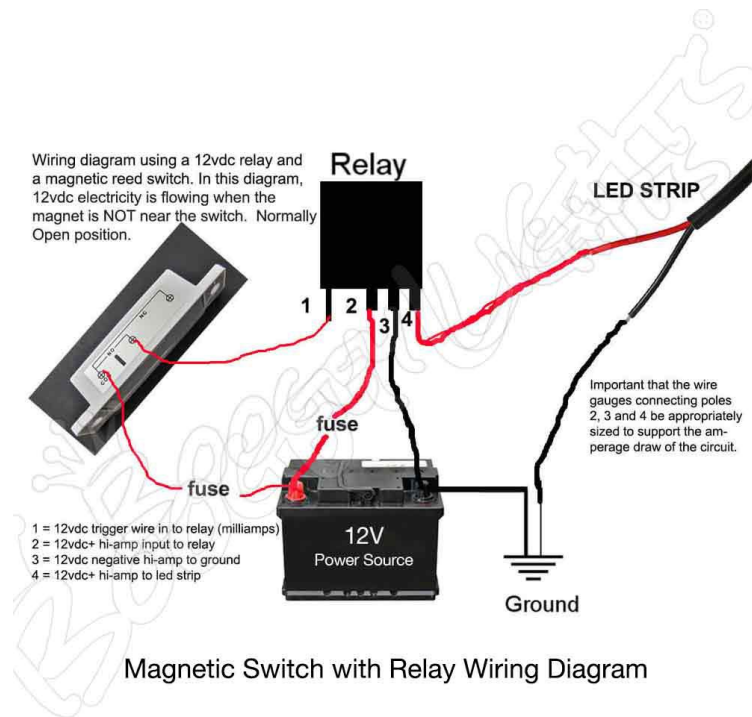


SEAL THE ENDS

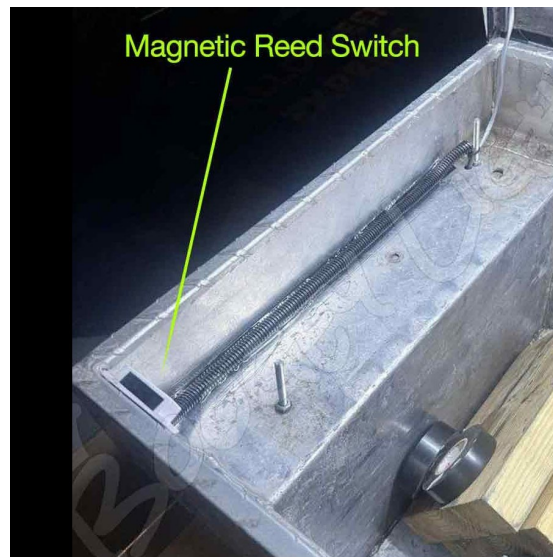
For most applications, we like to seal the ends of the channels with some Lexel clear adhesive. For toolbox lighting though, it's not essential unless your toolbox lid will be open a lot in the rain. The goal is to keep water from entering the channel and allowing the LED strip to remain submerged in it.

SWITCHING

Single color LEDs can be turned on/off using any 12vdc rated switch available at just about any hardware store, auto parts store, big box store or online. If you purchased one of the switching options we offered, wiring information will be included with that option. The most popular switching option is the Magnetic Reed Proximity Switch. If you purchased this switch, you'll notice we include a heavy-duty relay with the switch. It's important to use this relay. We include a wiring diagram below.



We like to mount the magnetic switch at the front of the toolbox as shown in these photos. That way the light turns on as soon as the magnet and the switch separate. You can of course adjust the location if you'd like.



Additional Resources

- Product Page: <https://www.boogeylights.com/toolbox-led-light-kit/>
- 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/>
- Relay Wiring Diagram: <https://docs.boogeylights.net/?wpdmdl=1145>

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/>.