



Thank you for your purchase of **BOOGHEY LIGHTS® Volvo VNL 780/670 UNDER-CAB ACCENT LIGHT KIT**. The end result is an incredibly bright yet versatile LED lighting kit that will absolutely light up your truck. Of course, if you need more lights, this kit is also expandable. These instructions work for both the single color and multi-color (RGB) kit versions.

All **Boogey Lights®** LED strips are **COMMON CATHODE LEDS**. They share a common ground and will only work with 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.

### **Attaching Your Light Strips**

The following instructions apply to all series of LED light strips.

#### Bench Testing:

We strongly recommend bench testing your lights BEFORE you mount them to your truck. 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 of other wires, connectors and cables already on your ride. Bench testing takes 10 or 15 minutes. It's simple to do and can potentially save you hours of time and frustration down the road.

#### Mounting Steps:

1) Clean the mounting surface with the supplied alcohol towels first. Once the alcohol dries, 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. Note - Do not get the promoter on your hands. Let the promoter dry before proceeding.

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.

2) We suggest you position the flexible 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.

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

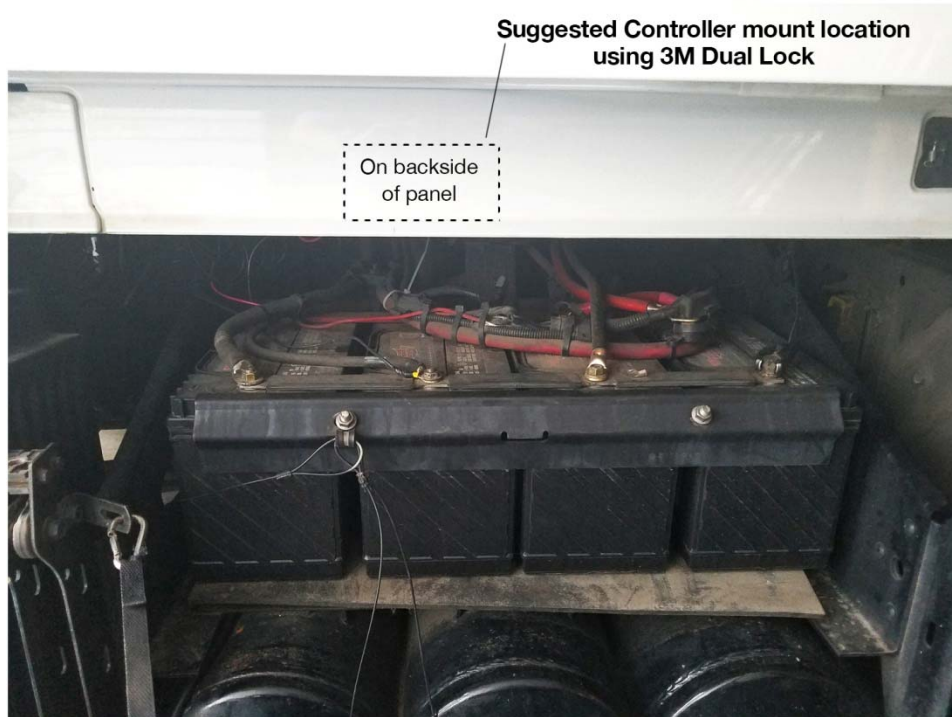
NOTE: For this install we recommend using 3M Dual Lock for mounting the controller under the cab or in the driver's side jockey box.

If you need to remove a light strip once placed, you can do so using a hair dryer/heat gun and carefully pulling the light strip off. We recommend using a hard plastic card or similar object (e.g. old credit card) to help pry the light strip off the surface to which it was mounted. If you have to remove the light strip for any reason, the 3M tape on the back of the light strip will not be reusable. It's likely too the light strip won't be reusable either.

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.**

- Typical placement of our low profile LED strips are under the cab (facing down).
- The LED strip with the 25' power lead is intended to be used on the passenger's side as the power lead needs to run across the under-side of the cab and over to the battery compartment or the drivers side jockey box. Be sure to route your lead wire safely around the DPF, leaving plenty of air space. (This filter gets extremely hot). If you purchased the RGB multi-color kit version, you'll need to also mount the controller in a location where you can get power to it.
- The strip with the 15' power lead is intended to be used on the driver's side. If you purchased the RGB multi-color version, the controller can be mounted either on the inside the fairing under the driver's side or the jockey box. The 3M Dual Lock recloseable fastener makes it easy to remove the controller if need be.
- If you purchased the single color kit version, you'll want to wire the lights into an existing 12vdc switched circuit or add your own on/off switch. Be sure to add a properly sized fuse in the circuit. The multi-color RGB kit version includes a wireless remote on/off controller with it's own fuse. Refer to the wiring diagram included with each kit.
- As with all lighting products, make sure you are familiar with the state highway regulations about displaying lights. Not all states allow every color to be displayed while on public highways. Orange is the only color that can be used while driving. In our demo truck we have one button pre-programmed for ORANGE which we also dim by 50% so it isn't so bright. We've found that white is very helpful when parked for working around the truck.
- This kit assumes you will be tapping into existing 12vdc marker light circuit. We offer additional **22awg power lead wire** if you need to extend the power leads to these lights
- These LED strips are not intended to be used in areas that are exposed to diesel fuel. We therefore do not recommend affixing them to fuel tanks. We also do not recommend mounting them on areas of the truck where road debris, gravel and rocks might hit and damage them.

- If you purchased the RGB / multi-color version, you can mount the controller either on the backside of the panel just above the battery bank (see photo below) OR inside the driver's side jockey box. Both locations will work.



- View of battery compartment with the access panel opened.

