



Thank you for your purchase of **BOOGIE LIGHTS® Volvo VNL 780/670 GRILL LED LIGHT KIT**. The end result is an incredibly bright yet versatile LED lighting kit that will absolutely light up the Grill area producing a nice glow effect coming from inside the hood.

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.

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.**

INSTALLATION

- Total installation time is about one hour. In most cases you can complete the installation with only opening the hood. You'll need to determine how you're going to power the LEDs. In most installations the Grill LED light kit is being added to an existing Boogey Lights LED kit (e.g. under-cab, air intake) so you can simply tap into that 12vdc circuit. Care must be taken to make sure you aren't however over-loading the circuit. The Grill light kit contains a total of 186 LEDs which on full power (white) will draw about 2amps.
- Each Grill light is comprised of four surface mounted LED strips. Two are 26" long with 39 LEDs. The other two are 36" long with 54 LEDs. These four strips are joined together with 7" jumper wires making it one continuous strip, with a 10' power lead on the end. The 26" strips mount to each side of the grill, whereas the 36" strips mount to the top and bottom.
- Before mounting the LED strips, clean mounting surface with alcohol and prep with the included 3M® promoter. This is an important step.
- Starting with the 26" LED strip with the 10' power lead, remove the red protective covering on the back of the strip and press firmly against the inside of the hood facing inward. Repeat the process for each strip around the grill opening (see photo).
- Route power lead back to power source and wire tie along the way.



Fits Volvo Generation 2 (2004-2018) and Generation 3 (2019+) hoods

