BOOGEY LIGHTS LOW PROFILE SURFACE MOUNTED LED STRIPS

Important Mounting and Placement Notes

While Boogey Lights low profile surface mounted LED strips are built tough for use outdoor on motorized vehicles, they have to be installed correctly if you want them to last. It's important to understand the limitations and make sure you are installing your lights accordingly. We urge you to review this document before starting your installation.

A Smooth, Flat, Straight, Continuous and Rigid Surface is Absolutely Essential

It's super important to understand these low-profile surface mounted LED strips must be mounted to a smooth, flat, straight, continuous and rigid surface. Attempting to mount them on any other type of surface will almost certainly result in your LED lights failing sooner rather than later (none of which is covered under warranty). Here are some key points to keep in mind:

1. Spanning two mounting surfaces on a vehicle that moves, flexes and vibrates will absolutely not work. The LED strip will fail, and they will do so sooner rather than later; we can almost guarantee it. We know the temptation is there because it's easy/fast to do BUT you're going to be disappointed if you do. If you have to span multiple surfaces, your options are to either build a mounting surface over those surfaces using aluminum/plastic or, install multiple LED strips (one strip, one mounting surface).

2. The LED strip cannot be mounted on top of or over things such as bolt heads, connectors, wires, gussets, spring hangers, etc. The strip must be mounted to a flat surface with nothing between the LED strip and the mounting surface. Also, the LED strip cannot span gaps in a mounting surface. The entire LED strip must make contact with the mounting surface. Depending on the size of the gap, you may be able to put down some butyl tape first to fill in that gap and then mount the LED over that, but this only works for small gaps in a mounting surface such as holes or seams.

3. If you're mounting the LED strip to coroplast (or similar surface), make sure the coroplast is straight, flat and rigid. It cannot have bulges in it or be weighted down from the stuff above it. Lots of RVs these days have coroplast being used mostly for aesthetic purposes to close off the bottom; it's not capable of holding much weight. It's not unusual for that coroplast to bulge in-between the supports. In some cases, the coroplast is holding back water-soaked insulation, cables, ducting and other hoses which are crammed into the space between the floor of the RV and the coroplast. Over time as the RV goes down the road the weight of that stuff bounces up and down which pushes the coroplast downward between the supports. If the LED strips are mounted to that coroplast, the strips will flex, bend and ultimately fail. LED strips mounted to coroplast surfaces that fail under these conditions are not covered under warranty.

4. The LED strip must be mounted in a straight line. Do not attempt to bend the LED strip on a horizonal plane. Also, do not bend the LED strip in a radius of less than 2 inches. For example, installing these LED strips around a corner will not work long term. They will fail.

5. The area where you are mounting the LEDs must be clean; free of all dirt, grease, oil or anything that might affect the LED strip from adhering. You only get one opportunity to mount the LEDs so it's critical

the area be prepared properly. Be sure to clean the area first with rubbing alcohol and then, use 3M adhesion primer to prep the surface. This is an important step. Do not skip it. NOTE: if the area you're mounting the strip to has a lot of grease, you can use a degreaser or similar solvent. Just make sure you thoroughly clean that area first with rubbing alcohol to remove any of the degreaser residue before applying 3M adhesion primer.

Creating a Smooth Mounting Surface

If you don't have a smooth, flat, continuous rigid surface to mount your LED strips – you can use 1.5" aluminum flat-stock or plastic L channel. Both are available online or at many home improvement stores. We offer them for sale on our website too: https://www.boogeylights.com/aluminum-flat-bar/, https://www.boogeylights.com/plastic-l-channel/ . We prefer to rivet this material to the bottom of the vehicle although some will use screws. In our experience, screws don't hold as well as rivets. As for the size, it will depend on the width of the aluminum/plastic you're using and the surface you're mounting to. We typically use large flange 4-5 (1/8" x 5/16") or 4-8 (1/8" x 1/2") rivets but your install may differ. Once we have the mounting surface built out, we then mount the LED strip to that aluminum or plastic. It makes for a nice, clean installation. Doing it this way also makes it easier to remove the lights if for some reason you want to in the future. It's the method we use for many of our in-house installations we do for customers. We have a video on our website showing more about how to do this. Here's the link: https://www.boogeylights.com/video-creating-a-smooth-mounting-surface/. This video (and many others) can also be found in our HOW-TO section here: https://www.boogeylights.com/how-to-videos/.