

# Detailed Installation TIPS -Harley Davidson bike

These pictures and tips are intended to help with installation of the Brite Lites LED strip kit on a 2009 Road Glide bagger. If the bike came into my shop, this is the way we would install the light kit.

**1.** Very first step is to unpack and connect up all the pieces and become familiar with the components. Keep in mind that this is a 4 wire kit, so the power wire is important to be connected the same way from each LED strip to the cables, to the next LED strip. The black wire is the power, and **MUST** be in the same location from strip to strip thru the entire project. (You can make custom interconnect cables and switch the pins if you are a very experienced tech and want to do extra cool things, like cutting a strip and using the cut segment). **ALWAYS** test your layout and ideas **BEFORE** you begin to install the LED strips on the bike.



First time out of the box - connect all strips & check



Next step to plan your routing: All strips "ON"

If you plug in a LED strip and get no light, unplug and flip it over. It is most likely on backwards and power is on the wrong side of the 4 input wires. (if you get a dim RED color, you have a interconnect cable or strip backwards) We **ALWAYS** power the controller box and plug in the LEDs with power so we can tell right away if we plug a strip in backwards or have some issue we need to correct.

**2.** The second step once you have all the pieces connected and are familiar with all your routing options is to start your layout design. On a bike, I like to route all the lights to the underseat area and keep exposed wires to a minimum. This does require a little extra work to wiring, but makes the install very clean. To do this, look at the splitter pictures posted on the back page or build your own. Always test, and re-test all connections prior to placing any LED strips on the bike to be sure you have all your components working at each step. (note: We keep a 12 volt power supply around to run the lights during the install and keep them powered up all the time to see if we do anything wrong)

If you are going to cut any LED strips, the strips have markings on them to show the place to cut the strip. It is a simple cut and a tin snips will cut the strip with ease. (NOTE: If you are cutting, disconnect the strip from the light string so the snips does not short out the controller box if powered up)



**TIP:** If cutting, keep pretty close to the cut mark on the strip. If you cut too close to an LED, you will get some funky colors due to the misaligned cut.

**3.** Mounting the LED strips. We do as much work as possible to conceal the strips and keep them hidden on the bike. In these pictures, you will see we have the long strips under the entire bike along the frame and swing arm, the middle size strips under the gas tank, and the short strips are around the engine.

Cleaning the bike is the most important step to get the 3M adhesive to stick well. It is only tape, so it is not the only method needed to secure the strips for the long haul, but a good starter. Look at the pictures and you'll see we use a lot of Lexal clear silicone on the ends of the strips and for the ones under the bike, I go the entire length and ends to be sure they will not come loose. (this bike has saddle bags, so I have 2 additional 20" strips mounted on them to really light up the rear)



Tucked under the tank



Under the saddle bags

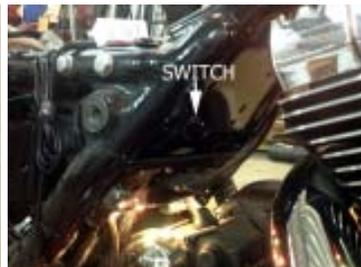


Plenty of silicone caulk

4. Wiring the kit together. This bike has a trickle charger connection off the battery, so we plugged out wiring harness we made into that. I ALWAYS use a micro switch to cut the power to the LED control box. It is a simple \$2 way to be sure that something doesn't drain your battery when not using, and it allows me to not even use the remote (the controller always remembers what color or setting you had on last, so every time you flip the switch it is the same setting)



Wiring harness (white cable is input wire)



Switch on frame



Control box under seat

We put the switch on the frame in an existing hole and routed the wiring inside the battery box so it is totally concealed. Our wiring harness is a simple trickle charger cable (to power control box), a micro switch (toggle 2 pole) & the kit supplied input cable. (Radio Shack has many micro switches)

5. Finished product. We typically have the Remote "EYE" between the seat and tank so when on the stand you can most easily hit the eye with the remote in your hand. I personally like the FADE program and slow it way down to roll thru the full color spectrum. An install like this is durable and very hidden when not in use. This will last for years and have everyone asking where you got the lights!

For additional examples, pictures and ideas of installation, check out our FEATURED PROJECTS and LATEST NEWS sections on our website for what we have done with the kit. [www.BriteLites.net](http://www.BriteLites.net)



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# Remote Controlled LED Strip Installation TIPS

These pictures and tips are intended to help with installation of the Brite Lites LED strip kit on various 12 volt vehicle applications. The kit is designed to be a very versatile lighting solution and give you full control of the color or program that you choose.

We have installed the lights on many different vehicle types and can be easily placed on a Motorcycle, UTV, ATV, Golf Cart, Snowmobile, or anything 12 volt DC. We even have installed them under office cabinets and countertops with our 12v power supply. (optional web only item)

For additional examples, pictures and ideas of installation, check out our **FEATURED PROJECTS** and **LATEST NEWS** sections on our website for what we have done with the kit. [www.BriteLites.net](http://www.BriteLites.net)

**Remote Control:** The slim Infra Red remote control allows you to turn the lights on & off, select a solid color, increase brightness/or dim (top 2 left buttons)  
Or run pre-programmed modes (4 gray color buttons on lower right).



Note: in a pre-programmed mode, the upper two left buttons increase/slow speed of program.  
-In strobe program, white is the only color that is available to strobe.  
-fade rolls thru all colors



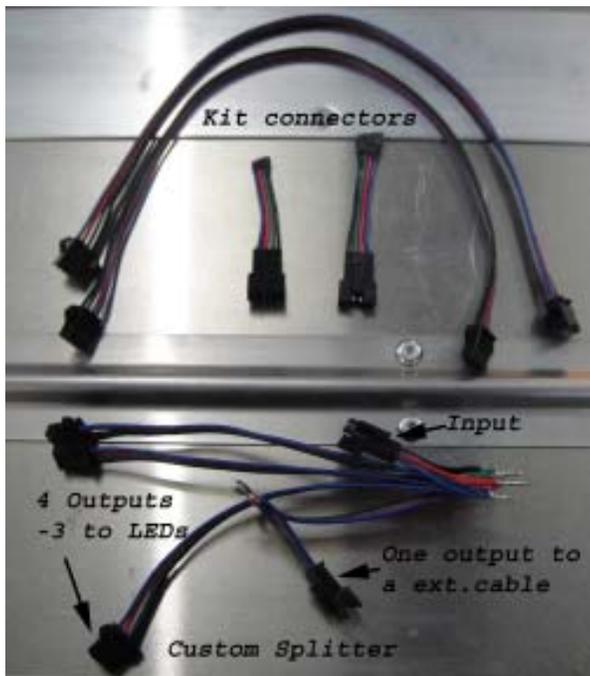
LEFT: The pictures here show installation prep tips to ensure proper adhesion. On metal surfaces, a butane torch can be helpful to clean and burn off oils.



On plastic and painted surfaces, a heat gun is ideal to clean and warm surface. Warming the LED strip will make it more pliable and easier to bend.



Final step on any exposed surface LED, use a 100% clear silicone bead on the entire length of the strips and ends.



Custom Line Splitters

**IMPORTANT NOTE:** IF using a Y-cable (or any custom splitter), you have to be sure NOT to connect the ends of each line together. They must end open without connecting to anything. (We cut the connector off the last LED strip to be sure & make it look clean and ended)



Y-Cable

The kit is designed to route all the lights in a single chain, or one continuous line. If you have a custom installation or would like to route your strips in multiple lines, you can take a cable & clip a end off a LED strip to make a Input connector. The picture above is from 2 cables and 2 ends.



Use of the Y-cable is an easy way to split the LEDs from side to side or front to back on your application. It can be placed at the control box or anywhere in-line