

# BOOGIE LIGHTS® Heavy Duty LED Whips

## WIRING INFORMATION

Boogey Lights® Heavy Duty LED Whips are offered in RGB and RGBA (common cathode LEDs only). Assuming you want to maximize the functionality of the lighting options, both formats require a Boogey Lights® RGB or RGBx positively switched LED Controller to operate. As with all of our LED products we urge customers to take an extra 5 minutes *to bench test this whip before installing*. Doing so confirms the whip is working as expected. Whips are especially easy to bench test. If for any reason the whip does not work as you expect, *do not install it*. Instead, reach out to us. Only brand new, uninstalled products can be returned for a full refund.

**RGB Wiring:** There are four power lead wires. They are color coded as follows:

- Black Wire = Common Ground (12vdc - )
- Red Wire = Red Diode (12vdc +)
- Green Wire = Green Diode (12vdc +)
- Blue Wire = Blue Diode (12vdc +)

Note: Single Color Whips use the RGB WHIP. For single color, simply wire the diode color on the whip to the 12vdc+ (black = ground). EG: If you purchased a Blue Whip, wire the BLUE WIRE on the whip to 12vdc + (black is ground). Cap the Red and Green wires on the whip as they aren't used.

**RGBA Wiring:** There are five power lead wires. They are color coded as follows:

- Black Wire = Common Ground (12vdc - )
- Red Wire = Red Diode (12vdc +)
- Green Wire = Green Diode (12vdc +)
- Blue Wire = Blue Diode (12vdc +)
- Yellow Wire = Amber Diode (12vdc +)

Note: Dual Color Whips use the RGBA Whip. Simply wire the primary color you want on the whip to 12vdc + and the yellow wire (amber) to 12vdc + (black = ground). EG: If you purchased a Green + Amber whip, simply wire the GREEN WIRE on the whip to 12vdc + and the YELLOW WIRE on the whip to 12vdc + (Black = ground). Cap the Red, Green and Blue wires as they aren't used.

## MOUNTING

You'll notice the quick-release base included with the whip comes with a bolt (nut + lock washer too) that can be mounted directly to a hard surface that is sturdy enough to support the whip. The bolt can also be easily removed and replaced with a different size/length bolt if desired. This however may not be sufficient for all mounting applications. There are literally hundreds of after-market mounting solutions for whips, antennas, flag poles and the like that our quick-release base can mount to. For example, for semi-truck mirror mounting applications, there are a wide variety of mounting brackets available; some are specific to a truck year/make/model, and others are more generic in nature. For semi-truck applications, we suggest checking with the folks at RANEY'S TRUCK PARTS first for a mount specific to your truck. If you're looking for a spring and/or universal mount, we offer some options on our website however there are a lot of other options too. Some choices include: ETrailer, West Marine,

EBay and of course, Amazon. Just make sure you're purchasing a mount capable of supporting the length and weight. If you're going to be mounting the whip in a location that is likely to be impacted by tree limbs or similar objects, we strongly suggest mounting the base to a spring first so the whip can move if hit. This is especially important for off-road operating environments since the whip itself is not flexible. If hit hard enough, it will break (and crush the LEDs). A spring mount will greatly reduce the likelihood of that happening. We offer a Heavy Duty Barrel Spring mount here: <https://www.boogeylights.com/heavy-duty-barrel-spring-mount-base/>. You can purchase these online elsewhere too.

## QUICK-DISCONNECTS

If you purchased the optional water proof quick-disconnect connectors, here's a diagram showing how to add them to the whip's power lead. The female end of the quick-disconnect should be the 'hot' end for power.

