

## BOOGEY LIGHTS® Heavy Duty LED Whips

Boogey Lights® Heavy Duty LED Whips are all RGBA capable. How you wire them is what determines the color displayed. To operate in RGB or RGBA mode you will need a positively switched Boogey Lights LED controller to operate. For Single Color or Dual-Color, you just need a switch of some type to turn the diodes off/on. 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. A video on how to bench test is here: <https://www.boogeylights.com/how-to-bench-test/>. 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.

### For RGB:

- Black Wire = Common Ground (12vdc -)
- Red Wire = Red Diode (12vdc +)
- Green Wire = Green Diode (12vdc +)
- Blue Wire = Blue Diode (12vdc +)
- Yellow Wire (cap – do not use)

### For RGBA:

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

**For DUAL-COLOR (primary + amber):** Connect the primary color you want to display on the whip to 12vdc+, connect the yellow wire (amber) to 12vdc+ and the black wire to 12vdc ground. Example: If you want Green and Amber, connect the GREEN WIRE on the whip to 12vdc+, the YELLOW WIRE on the whip to 12vdc+ and the Black to ground (12vdc-). Cap the Red and Blue wires as they aren't used. If you want a color that requires mixing 2 or 3 diodes together, simply twist those colors together and connect them to 12vdc+ (ground is always black). For example, YELLOW = Red + Green. WHITE = Red + Green + Blue. MAGENTA = Red + Blue. Etc. Cap any remaining wires that aren't used.

**For SINGLE-COLOR:** Wire the diode color on the whip you want to display to the 12vdc+ and wire black to ground. Example: If you want a Blue Whip, connect the BLUE WIRE on the whip to 12vdc+ and black to ground. Cap the Red, Green and Yellow wires on the whip as they aren't used. If you want a color that requires mixing 2 or 3 diodes together, simply twist those colors together and connect to 12vdc+. For example, YELLOW = Red + Green. WHITE = Red + Green + Blue. MAGENTA = Red + Blue. Etc. Cap any remaining wires that 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.boogelylights.com/heavy-duty-barrel-spring-mount-base/>. You can purchase these online elsewhere too.

## QUICK-DISCONNECTS

If you purchased the optional waterproof 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.

