

# Gonzo's Headlight Wiring Harness

Relay

This is a new motorcycle wiring harness that is designed to lay under the seat area and run up the frame and out the steering neck to power up the headlight. It can also be wired to power up a light bar.

The starter switches on Honda brands are known to fail from heat from the headlight circuit. The starter button is part of the headlight circuit and passes current to the headlight when the button is not depressed. When depressed, the headlight goes out and the voltage is directed to a starter relay.

Additional lights wired to the headlight can be an excessive drain on stock wiring harnesses that were not designed for the additional load. In some instances, these additional loads can cause catastrophic failures on stock harnesses and in particular starter switches.

This harness is equipped with a high and low relay to take the full charging voltage and pass it right to the headlight without any switches in the circuit. The relay is triggered off of the stock starter switch and hi/lo switch. This only requires 150mA of current, compared to the 9 amps across your stock starter switch for running the headlight! This is a step up from the lightbar harness because let's face it, some guys have

burned up their starter switches WITHOUT additional lights added!

Additional lights on the headlight circuit cause additional 8-9 amps of current through the starter button contacts which causes heat build that melts the plastic holding these contacts in place. Eventually the switch will be compromised and leave a rider stranded. Add the light bar wiring to this harness to combine the best of both the Lightbar and Headlight harnesses into one! When the headlight goes out while cranking the engine, the auxiliary lights will go out as well.

Frame Ground

Battery Positive (+)

Fuse

## INSTALLATION INSTRUCTIONS

Best to remove the tank and seat to get it dressed in but not really necessary to remove the tank. All wire ends are marked on electrical tape that should be removed as it is installed.

1. Pull the seat and tank off to dress harness in properly (Refer to Owners Manual).
2. Attach the ground to the frame.
3. Connect fuse to the positive side of the battery.
4. Unplug the headlight and insert the harness into the circuit. If using a modulator, leave it connected to the headlight and plug Gonzo Harness into modulator.
5. Insert the aux light wires into the extra sleeving, if needed crimp the male bullets or discard, and heat the shrink tubing over the joint to help water proof it. Connect lights to harness and slide large heat shrink over the connection and heat.

[www.gonzos-garage.com/bike/harness.htm](http://www.gonzos-garage.com/bike/harness.htm)

To headlight or modulator

To bike harness headlight connector

Female Bullet Connectors for lights. Most lights come equipped with male bullet style connectors which are provided and must be crimped on.

Extra sleeves provided for dressing up the aux light wires. Slide over the connectors and wires and heat the black shrink tube ends to secure.

Be careful not to burn the braided sleeves if using a lighter.

If aux lights have two wires (Hot and GND) connect ground to the base mount of the light and the hot wire to harness.

