



# Installation Manual

(Universal, CANbus bikes)

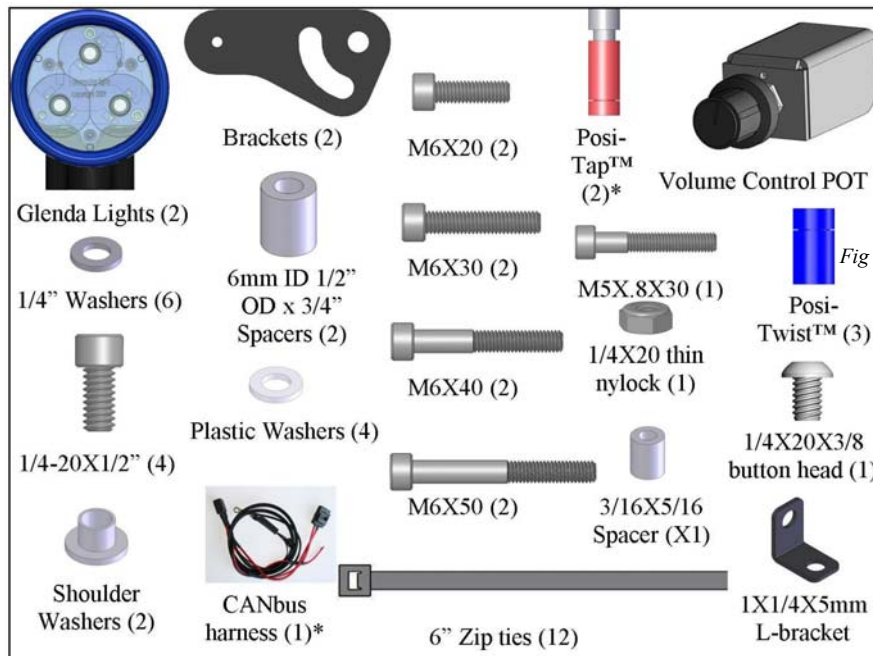
Glenda LED Light Kit  
(Dimmable)



The Clearwater Company  
2546 Mercantile Dr. Ste B  
Rancho Cordova, CA 95742  
P:916.852.7029 F:916.852.9410  
[www.clearwaterlights.com](http://www.clearwaterlights.com)

Please be sure to read our instructions thoroughly before attempting installation.

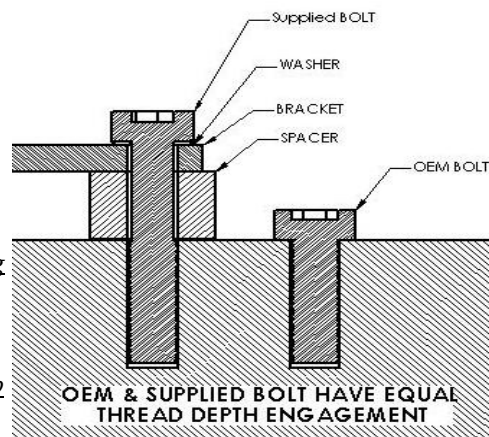
- Check Parts list supplied with your kit to be sure all parts are handy.
- First, park the motorcycle on hard pavement or concrete to insure the bike will be stable during the installation. If you can mount the bike on a stand with tie-down straps, this will help secure the motorcycle
- Follow the manufacturers guidelines for disconnecting the battery. This is important to prevent damage to the electrical system.
- **WARNING:** During the installation, **DO NOT** touch the blue wires to 12V +. You will fry the lights!



\* dependent on bike model

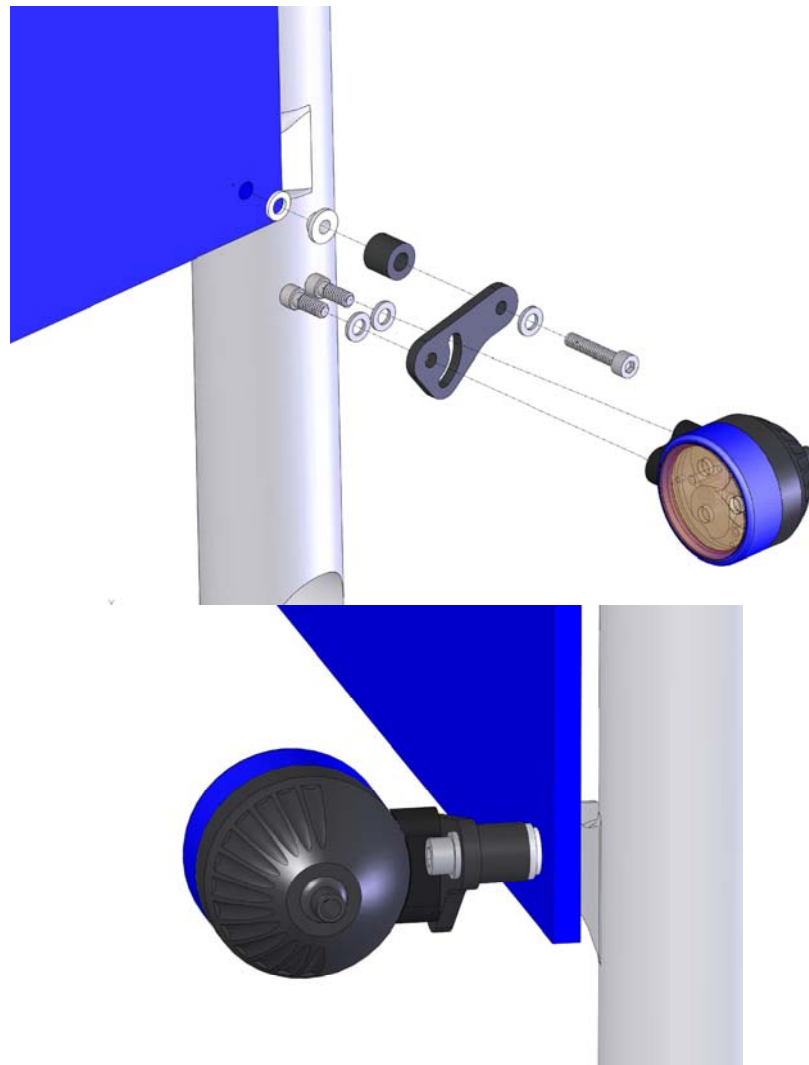
9/1/10

**Note:** Clearwater lights include a very high quality means of connecting to the motorcycle's electrical system. "Posi" devices made by Posi-Products are used to securely and safely make electrical connections on the bike. You can view instructions on the proper installation of the Posi-Products at <http://www.posi-lock.com>. They simply screw together and mate the wires. We suggest keeping your lights on all the time, we do not furnish an "on-off" switch. It is important to be sure that the wire you use will turn off when the bike is turned off. Otherwise, you will end up with a dead battery. Nobody likes that.



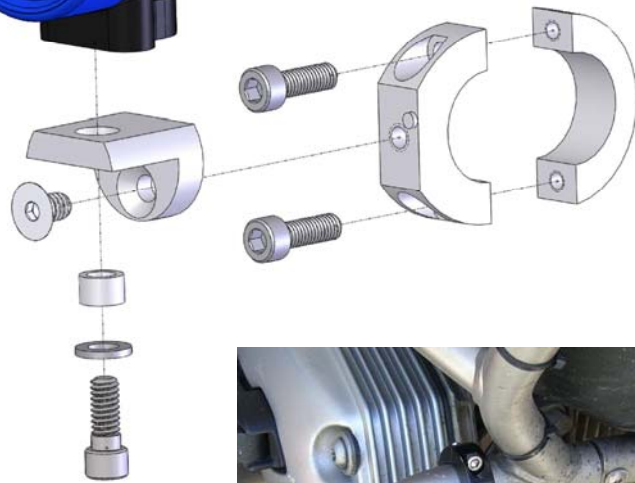
### Mounting Lights (FENDER MOUNT)

- One side at a time, remove both fender bolts. Be sure to keep fender from hanging in a fashion that damages it. Use a wire tie or piece of wire to hold the fender until you are ready to install the new bolts. Inspect the female threads on the brackets for dirt or foreign substance. If possible, use compressed air (wear protective glasses) or small bottle brush to clean the threads
- Pre-assemble the lights, mounting bracket, shoulder washers (if needed) and spacers with new bolts. Add 1 or 2 plastic washers to shoulder washer to make up difference in thickness of front fender if needed.
- Gently screw all bolts in hand tight. Inspect the bolt length and spacer alignment before tightening the bolts. Assembly will resemble one of the diagrams below depending on model.
- The mounting bracket can be mounted facing down (shown) or up to give the desired adjustability range.



### Mounting Lights (CRASH BAR MOUNT)

- Find suitable location for mounting lights on crash bar or engine guard. Our mounts are available in 7/8", 1" and 1.25" bar diameters. Harley crash bars are usually 1.25". BMW are usually 1" or 7/8".
- Mount bracket with clamps and attach light to bracket.
- Double check alignment before tightening bolts.
- There are many possible mounting angles with this bracket. Be sure that the location does not interfere with normal operation of the bike.
- Do not mount in a location that will expose the lights or wires to high temperatures, such as within a couple inches of the exhaust manifold or cylinder head.



### Mounting Pot Bracket (BAR MOUNT)

- Mount “volume control” to handlebar by using supplied bracket, bolt and clamp.
- Route wires from lights and pot bracket to area under left side of forks. Connections can be made here and be kept weatherproof.



### Mounting Pot Bracket (FAIRING MOUNT)

- Mount “volume control” in fairing by drilling a 5/16” hole and mounting control with attachment nut.
- Check for minimum 2” clearance behind panel to allow for circuit board and wire.
- Double check fitment of parts BEFORE drilling your panel. Measure TWICE, drill ONCE.
- Tighten 10mm nut and Install rubber knob over pot with press fit.



### Wire routing:

- Be sure to route wires so that they cannot become tangled or caught in either a suspension part or steering part. Check movement of both steering and suspension before riding the bike.
- It is sometimes helpful to follow existing wire routing.

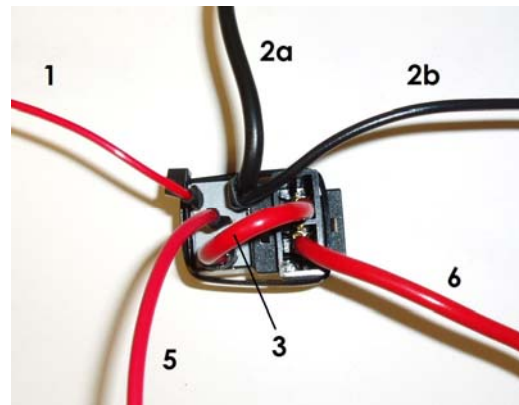
### Wiring:

- Main power from our lights is provided by a CANbus safe harness assembly. Use this to supply power to the lights. The relay is activated by using a tap to an accessory power lead. See CANbus specific instructions later on how to connect it to the bike and the battery. Be sure NOT to use a Low beam headlight wire on H4 headlight bikes.
- **DO NOT CONNECT BLUE WIRES TO 12 VOLTS +.** You will damage the lights.
- Attach the black ring terminal to the negative battery terminal or other good ground point.
- Use a posi-twist to connect the blue wire from the pot to the two blue wires from the lights (3 wires).
- Use a posi-twist to connect red from the CANbus to the red wires from lights and pot (4 wires)
- Connect ground/black wire to black wires from lights and pot. (4 wires)
- If you are using the high beam feature (recommended), use a posi-tap to connect the white wire from the pot to the High Beam headlight hot lead (+). This will be on ONLY when the high beam is illuminated.

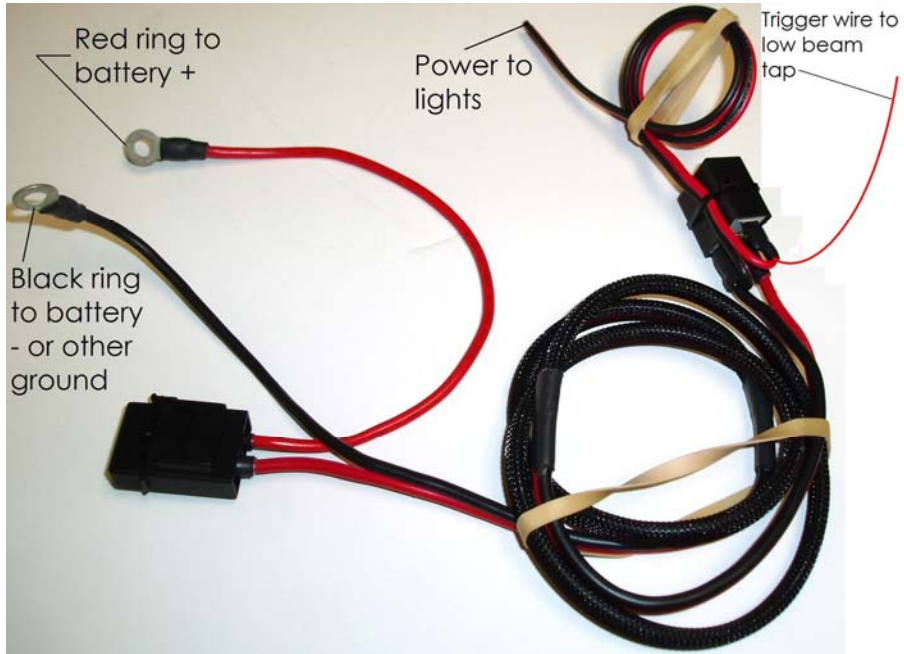
We supply two different types of CANbus harnesses: one which is triggered by the city light, and a second that is triggered by tapping into an accessory hot. Please follow the appropriate set of instructions for you harness.

### Short Accessory hot CANbus instructions:

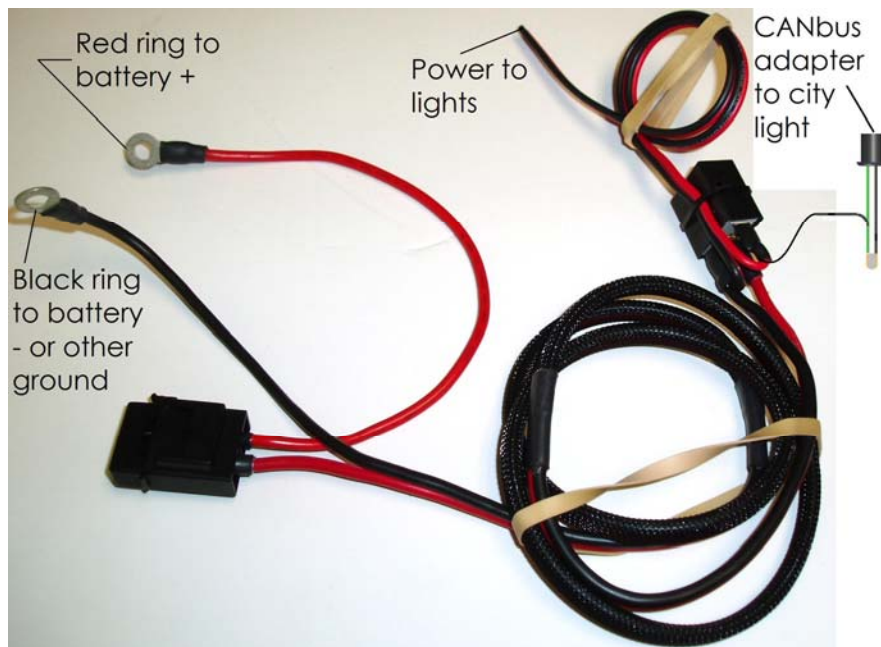
- Wire 1 (thin red) goes to accessory tap
- Wire 2a (thick black with ring connector) goes to bike ground
- Wire 2b (black) is ground for the lights
- Wire 5 (red) is hot (+) for the lights
- Wire 6 (thick red with ring connector) goes to battery hot (+)



**Long Accessory Hot CANbus**



**City Light CANbus**

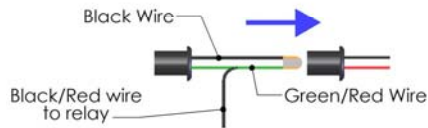


**Additional City Light CANbus installation instructions:**

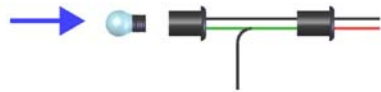
## CANbus Installation



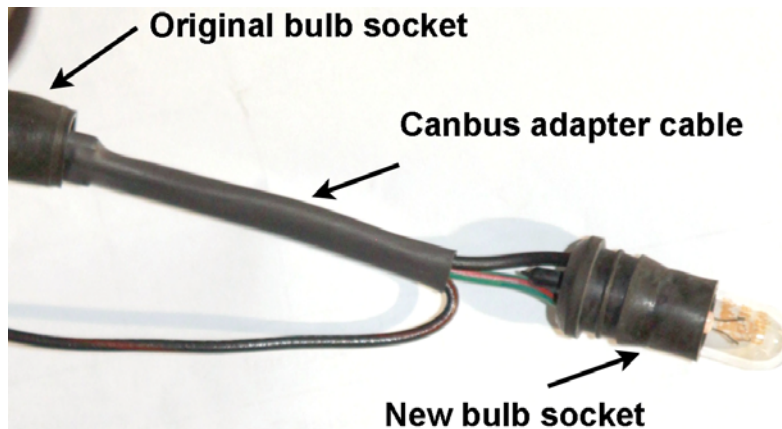
Step 1: Remove City Light from socket.



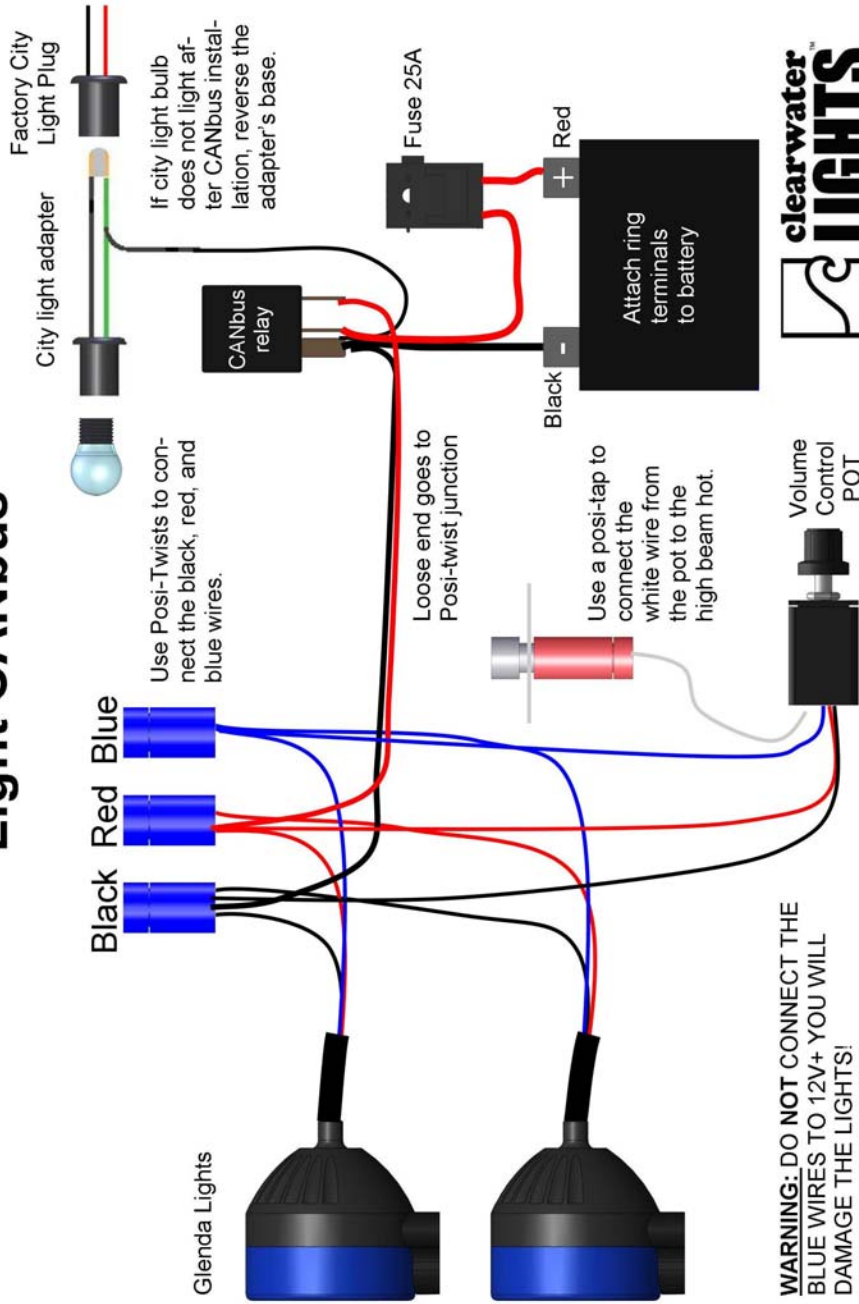
Step 2: Insert CANbus base into socket.



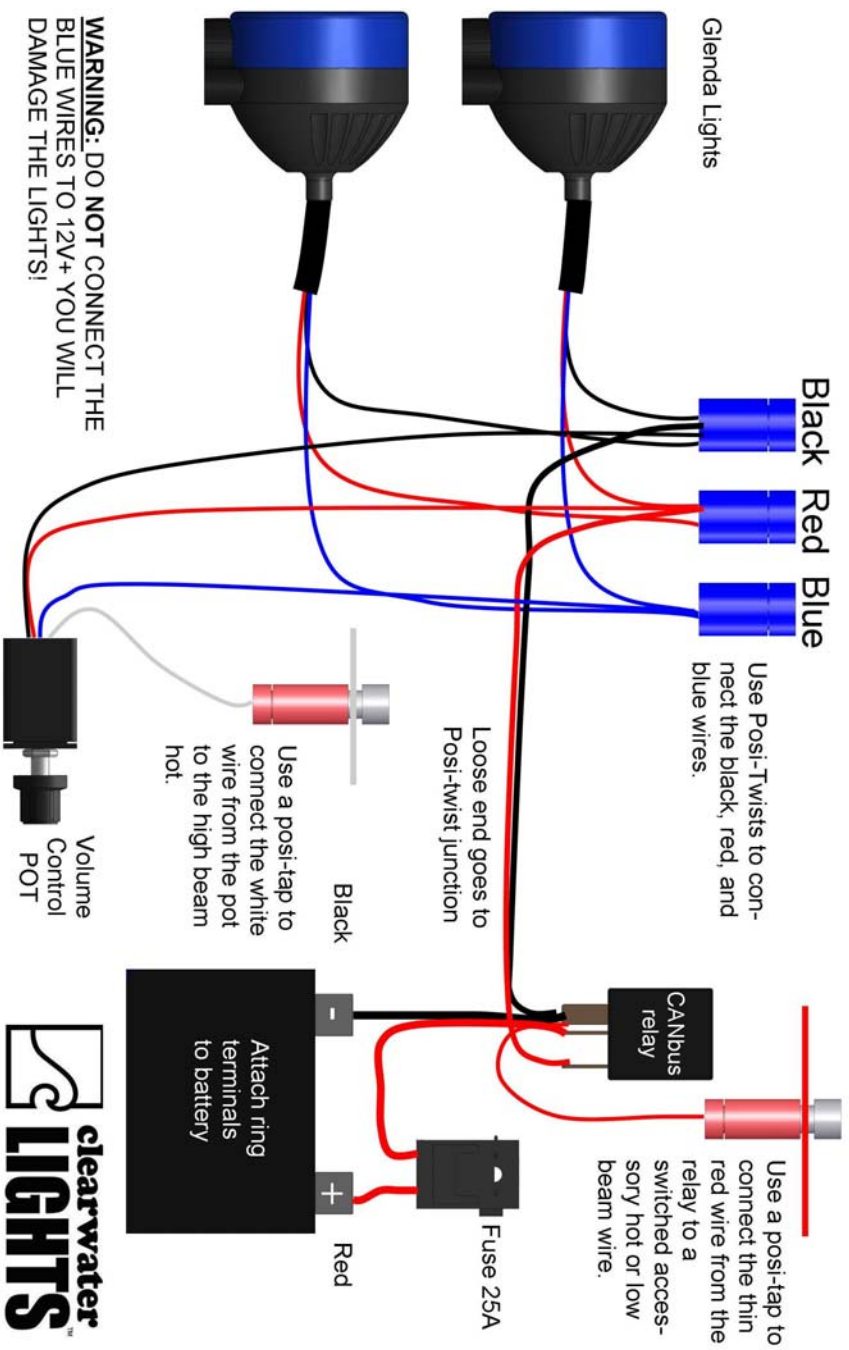
Step 3: Install city light into CANbus socket.  
Note: Check polarity by turning on lights. if light does not illuminate, reverse CANbus base.



# Wiring Diagram for Glenda Lights with City Light CANbus



# Wiring Diagram for Glenda Lights with Accessory Hot CANbus



### **Alignment**

Ask an assistant to help you with this procedure. Make sure the bike is on level ground and have an assistant sit on the bike. With a right angle board or object, position the board on the floor and slide it up to the light. The goal is to adjust the lights so that the light is level with the ground. Passengers and luggage may alter the alignment of the light, so further adjustments may be needed. You may find that a slight downward angle (5 degrees) is helpful.



Thank you for purchasing your Clearwater lights. We hope this product will help make you a safer rider. Please feel free to send us comments or suggestions at any time. We learn from you. Keep checking our website for more new exciting products such as our new 36W LED Krista light to help you see better at night.

Ride safe!

Sincerely,

Glenn and the guys at Clearwater.

Common wire colors on various bikes. DOUBLE check before using.

	<b>High Beam Wire</b>	<b>Switched hot wire</b>
V Strom	Yellow	Orange or Orange / Red
Honda	Blue	Pink / Silver
Concours	Red / Black	Black (in Aux connector)
BMW	White	
Yamaha FJR	Yellow	Green / Blue
Victory	Green	Yellow/Red



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