



Installation Manual

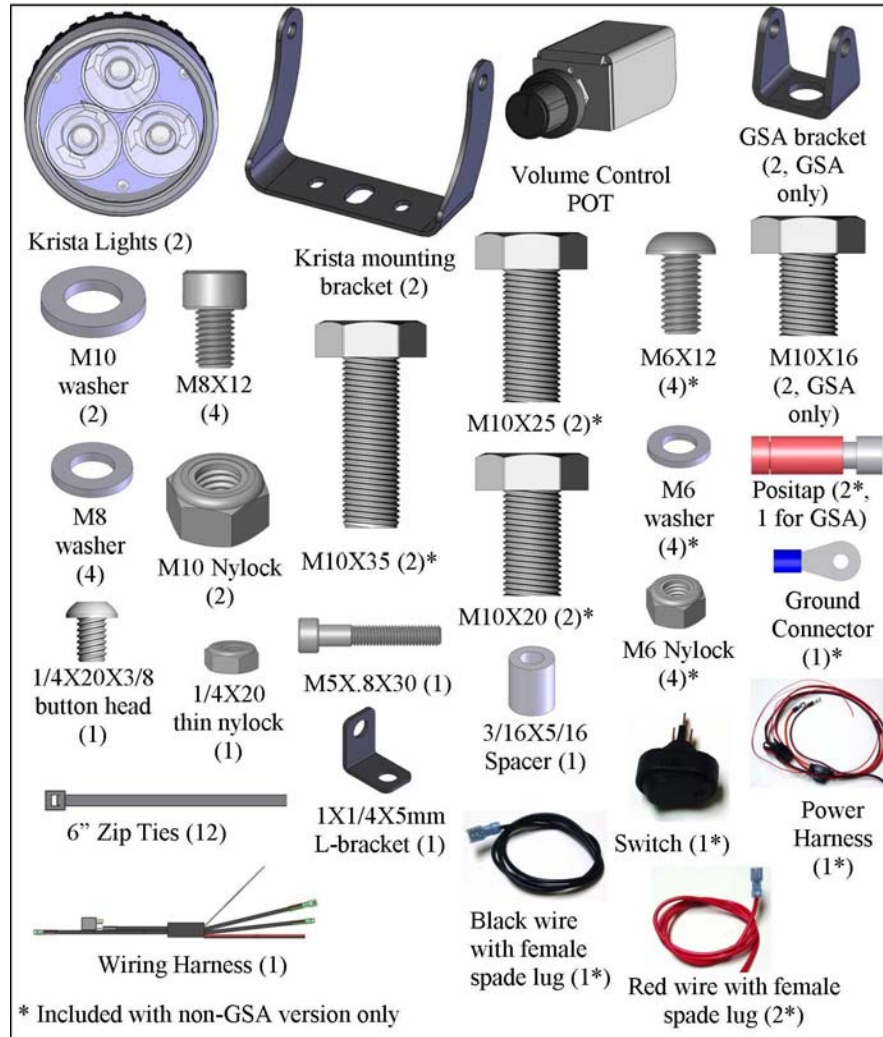
Krista Kit (Dimmable)
UNIVERSAL



The Clearwater Company
2546 Mercantile Dr. Ste B
Rancho Cordova, CA 95742
P:916.852.7029 F:916.852.9410
www.clearwaterlights.com

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

- Check Parts list below with your kit to be sure all parts are handy. If something is missing, please call us at (916) 852-7029.



9/10/10

Please take the time to review the included instructions. Installation of the new Clearwater KRISTA is straightforward. But, be sure to follow some of the suggestions to keep the installation safe and reliable. If you have any questions or comments, please feel free to contact us.

Thank you!

- 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.
- **Note:** The green connectors are difficult to disconnect. For your convenience, do not connect until the proper stage of installation. Please see the instructions at the end of this booklet on how to disconnect them if you should need to unplug them.

- Krista is a very bright LED auxiliary light. It uses advanced digital circuits to monitor and control light output. Do not use these with on coming traffic unless the dimmer is turned down all the way. Krista is designed as an off road only light due to it's light output and beam pattern. The wide circular pattern is very useful in mountain roads on a motorcycle as it keeps light on the road and in the tree canopy. As the bike leans, light is still focused on the road. Be certain to use the lights in a manner that does not blind oncoming traffic. Use these with caution. Ride safe.

KRISTA TECHNICAL

Krista is a very bright LED light that uses digital drivers to produce very efficient light from (3) 12 watt LEDs. By using a proprietary digital volume control, we can “dim” the lights via a remote mount volume control. This rotary knob sends a digital signal to our microprocessor that changes the pulses of electricity to the LEDs. As we increase the time that the lights are “off” the human eye perceives this as dimming. We switch our lights on and off at a rate of 250 times per second, every second. Increased efficiency occurs with the dimming as well. Krista can also be used in a “low” beam mode and a “high” beam mode. The factory handlebar high beam switch is used to select the two different Krista modes. Light output approaches that of a 150 watt halogen bulb while only using 35 watts of power. Krista is easy to install and has many, many uses. Krista is also serving overseas as an emergency operating room light on a remote island hospital.

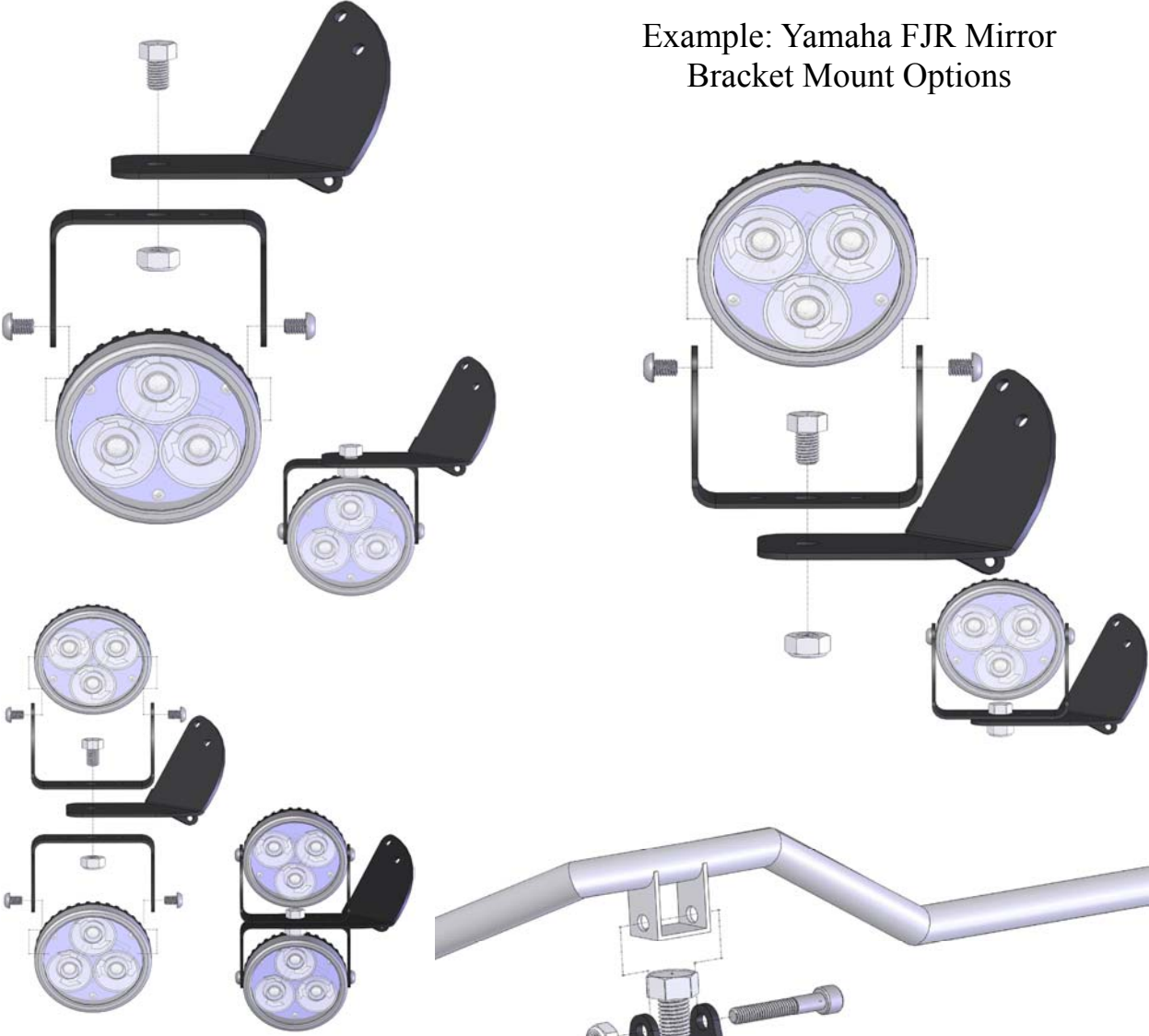
STEP 1: MOUNTING LIGHTS (Light Bar Mount)

- Krista comes with an assortment of Stainless Steel bolts that can allow a variety of installations. A light bar is the easiest installation. Select the correct bolt to fit your bar. Some mounting bars are stamped sheet metal and will need a shorter bolt. Krista comes with a mounting bracket that has two different bolt patterns to match some popular lighting mounts. Pre-assemble the lights, mounting bracket, shoulder washers and spacers with new bolts. If you are mounting to a billet light bar, you may need to add a few of the supplied washers to space our bracket away from the light bar. 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 on the next page depending on model.

MOUNTING LIGHTS (BMW R1200GSA Adventure MOUNT)

- Find the enclosed parts that allow direct mounting to 2005-2010 BMW R1200GS Adventure bikes. Our kit includes (2) L brackets, (2) 6mm bolts, (2) washers and (2) lock nuts. These allow mounting to the factory Fog light mount. You can use the original fog light bolt or the one supplied by us. (note some 2010 bikes have a tube type of factory mount)
- Mount bracket with brackets and attach light to fog light mount.
- Double check alignment before tightening bolts.
- Simply disconnect the factory fog light connector and plug the Krista harness into the connector.
- Our harness plugs into the factory Fog light connector. (only on factory equipped GSA bikes with the Fog light option.)

Example: Yamaha FJR Mirror
Bracket Mount Options



Example: BMW
R1200GSA Adventure
Light Bar mount
(with fog light option)



Step 2: Mounting the Pot

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 knob” in left side fairing location. Knob pulls off with a little force— use a small screwdriver to pry if necessary. Hold box in your hand. 10mm nut underneath removes. Drill appropriate hole in fairing panel (**double check location for room behind the panel...**) Insert pot shaft, secure with washer and nut. Re attach knob with sweep range at 7:00 and 5:00.



Step 3: Wiring

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.

Electrical:

- Krista comes with a very high quality harness for connection of wires. This harness helps make Krista installation very easy.
- Run the Red and Black power wires directly to the battery. The fuse will protect the wire in the event of a short.
- Locate the power relay in a safe location. It is a good idea to face the relay UP with the wires coming out the bottom. This helps keep the relay dry.
- Route the two Green connectors for the lights to a convenient location where they will not interfere with steering or any other moving parts.
- Install switch and connectors as shown in the wiring diagram on page 8.

SPECIAL INSTRUCTIONS FOR BMW R1200GSA With factory FOG lights:

In the GSA version with factory fog lights, the Krista Lights replace the fog lights. Simply plug the connector on the Krista wiring harness into the Left side fog light connector and tuck the other connector away in a fashion that does not create an electrical hazard.

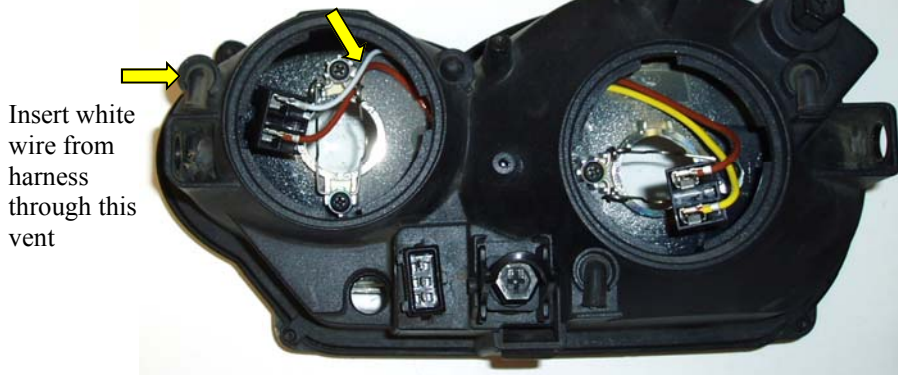


HIGH LOW FEATURE

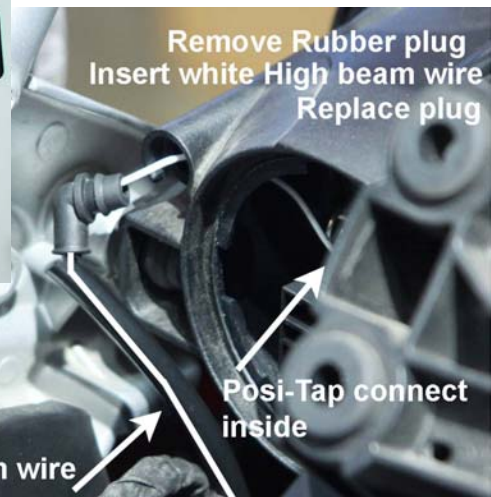
- Locate the bikes factory HIGH BEAM headlight wire. This will be on ONLY when the high beam is illuminated. This will trigger the pot to control the brightness of the lights. Using the supplied Posi-Tap connector, connect the WHITE wire from the harness to this HIGH BEAM circuit wire. On BMW bikes, the high beam wire is often a white wire in the headlight housing, as shown below.

HIGH LOW FEATURE (BMW 1200GS and similar models)

Posi-tap here on white wire



Insert white wire from harness through this vent



Remove Rubber plug
Insert white High beam wire
Replace plug

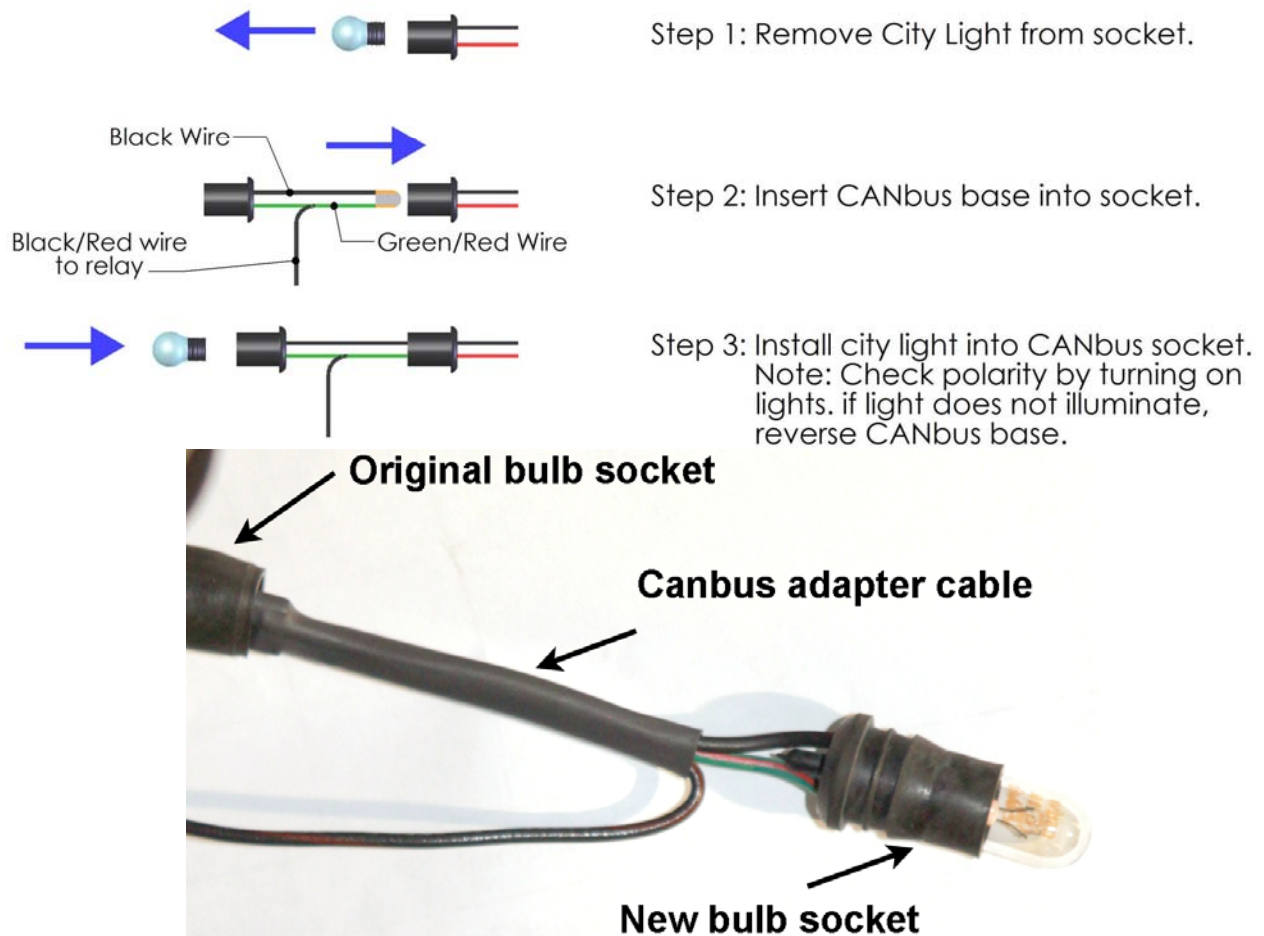
Posi-Tap connect inside

White high beam wire

CANbus installation:

Many BMW bikes have a parking light referred to as the “city light” or a “CANbus.” The switched hot that activates the power relay in the Krista wiring harness is provided by an adapter piece that plugs into this socket. See the diagrams below for installation instructions:

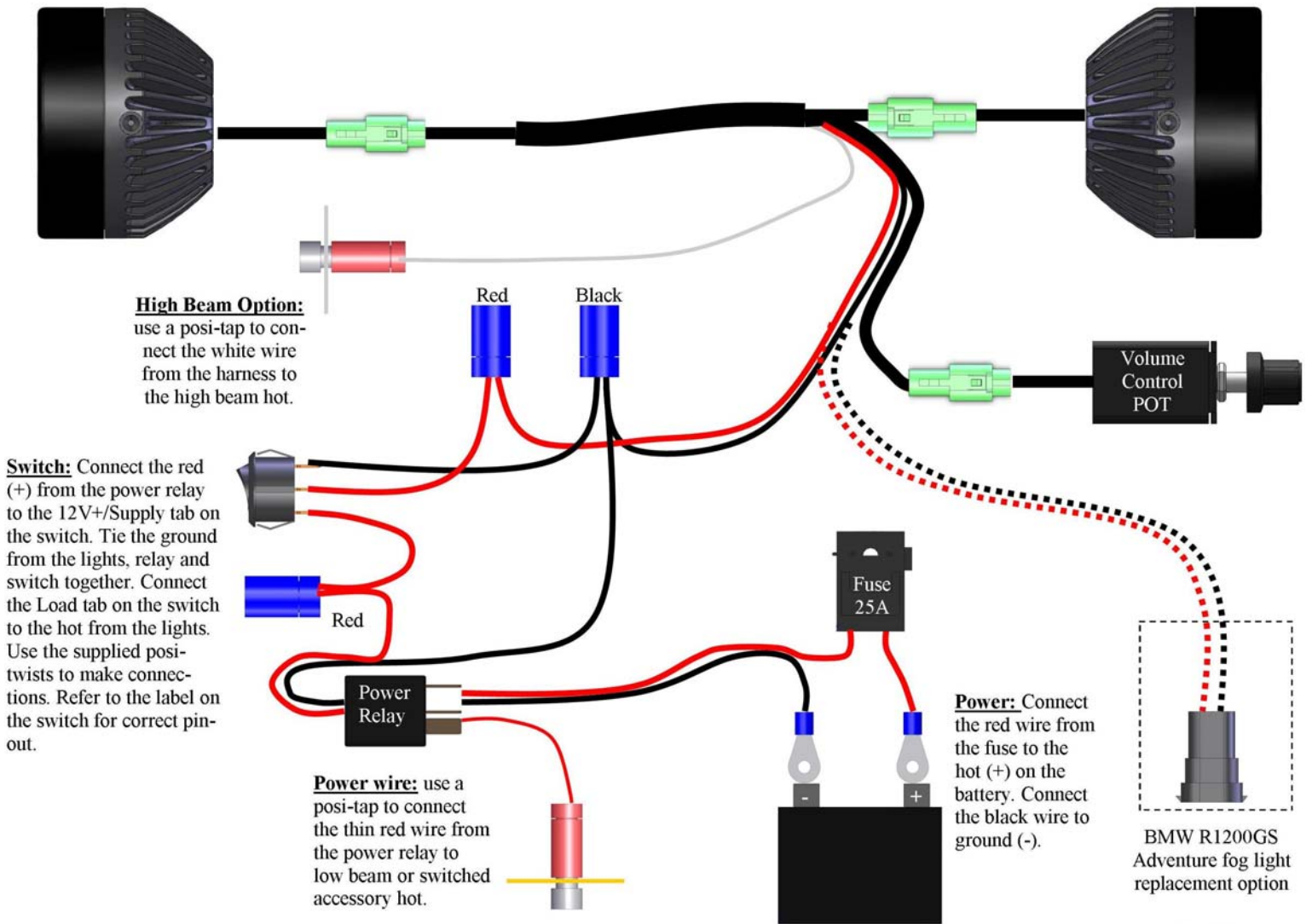
CANbus Installation



STEP 4: ALIGNMENT

As Krista is designed as an auxiliary light, adjustment is up to the user depending on his needs. 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. Often times it is helpful to angle the Right side light toward the right side of the road. This helps with identifying road terrain and potential critters.

Wiring Diagram for Krista

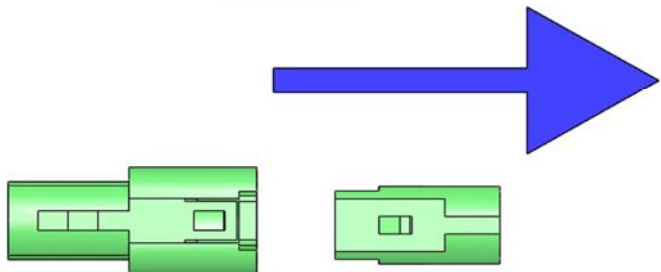
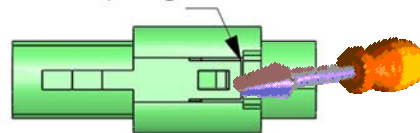


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Connector Removal:

If during the course of assembly you need to disconnect the green connectors, gently lift the tab shown on the diagram on the right. Be careful that you do not break this tab off or else the connector will not lock together.

Gently pry up on this edge with a small screwdriver while gently pulling on the plug



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 to help you see better at night.

Ride safe!

Sincerely,

Glenn and the guys at Clearwater.



The Clearwater Company
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September 14, 2010