



**clearwater**  
**LIGHTS™**



## Installation Manual

### BMW F800GT & F800ST

**Darla Light Kit**

Dimmable

*Patent Pending*




Made in USA

# Parts List and Bike Preparation


*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.


**B32 - HARDWARE BAG**  
**2 602 - 6mm Universal Bracket**




**2 Spacer #5**




**2 M6 x 45mm**




**4 M6 x 14 HH Bolt**




**6 M6 Flat Washers**



**4 5/16" Plastic Washers**




**2 M6 Small Shoulder Washers**




**B817 - CONNECTION BAG**


**1 Ring Terminal**




**3 Posti Tap**




**12 6" Zip Ties**



**1 Zip Tie Pad**



**B761 - HARNESS BAG**



**2 2' Darta Extension**




Last Updated: 4/21/21

**2 Light Assembly**




**B709 - POT HARDWARE BAG**


**1 Pot Assembly**




**1 M6 x 35 SH**




**1 M6 X 10 BH**




**1 M6 Flat Washer**




**1 #20 Spacer**



**1 L-Bracket**



**1 Plastic Plug**



# Mounting The Lights

## Fender Mount Overview:

- One side at a time, remove fender bolt at desired mounting location. 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 the diagram below.
- The bracket can be mounted facing down (*shown*) or facing upward to give the desired adjustment range.

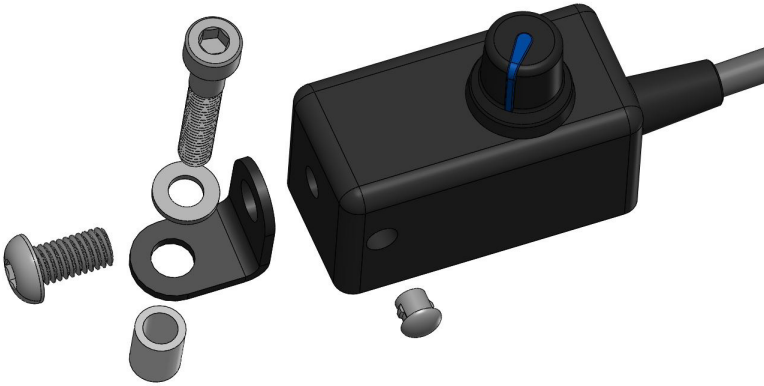


# Mounting The Volume Control Knob

## Mounting The Volume Control Knob: (Bar Mount)

- Mount the Volume Control Knob to handlebar by using supplied bracket, bolt and spacer. (**Note:** *bike in picture has additional aftermarket switch installed*).
- Route wires from lights and volume control knob bracket to area under left side cover. Connections can be made here and be kept weatherproof.

## Mounting The Volume Control Knob: (Bar Mount)



# Mounting the Harness

- The harness should be mounted in a secure location close to the front of the bike. Use the provided zip tie pad, zip ties or a fastener of your choice to mount the harness. Choose a location away from direct heat and out of the way of pinch points and steering/suspension assemblies.
- Route the THICK RED/BLACK power wires toward the battery.
- Be sure to route all wires so that they cannot become tangled or caught in either a suspension or steering part. Use the provided zip ties to secure them in place. Again, check the movement of steering and suspension before riding.
- It may be helpful to follow the existing factory wire routing.

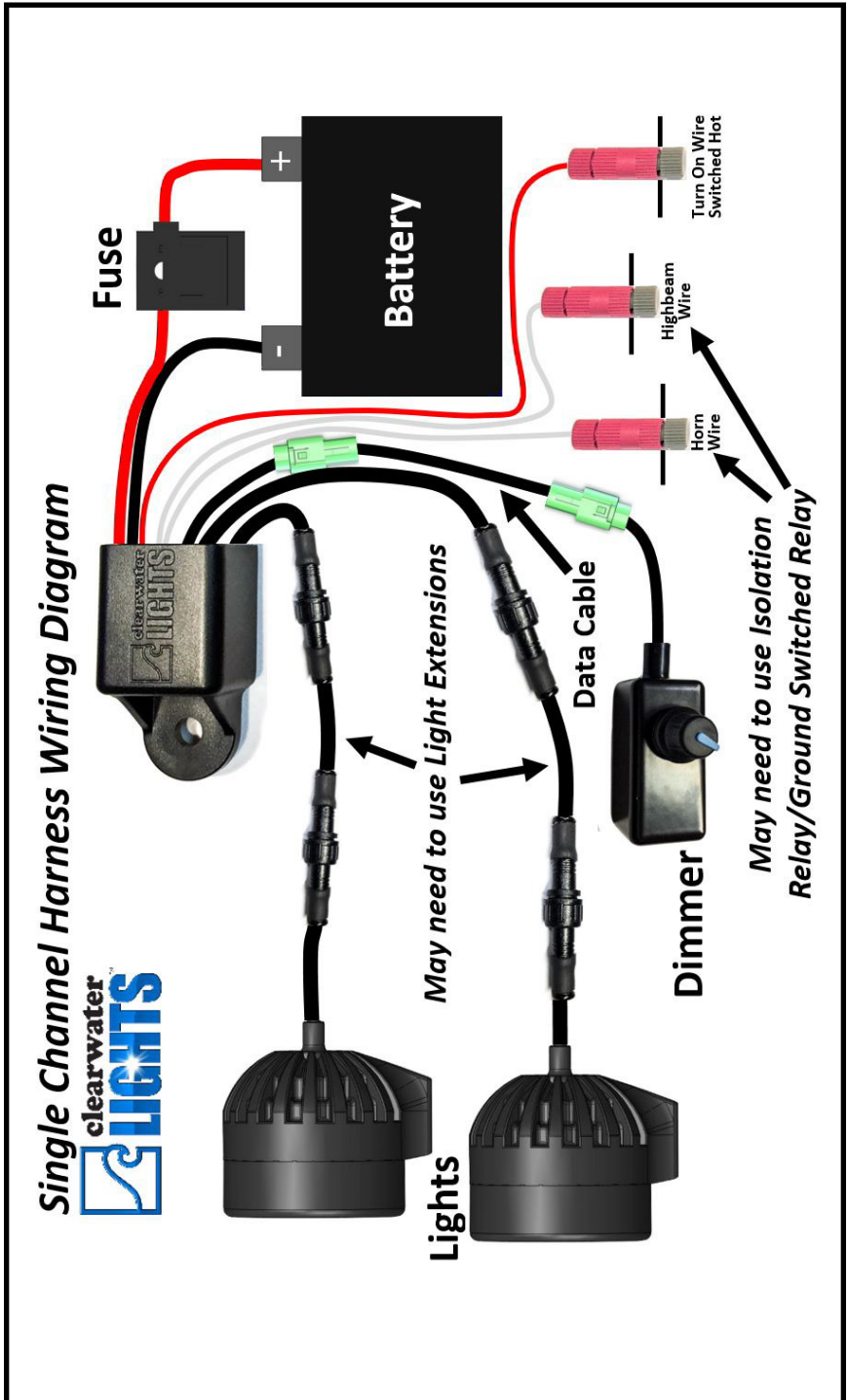
## Wiring + Connections:

- **Switched Hot Wire:** The THIN RED wire from the harness needs to be connected to a 12V switched hot source on the bike using one of the Posi-Taps. An accessory hot or low beam hot signal usually works best. This will allow the Clearwater Lights to turn on/off with the key or when the bike starts. The lights are NOT powered from this trigger wire. The Clearwater Lights are powered directly from the battery.
- **High Beam Feature:** Use one of the provided Posi-Taps to connect one of the THIN WHITE wires from the harness to the high beam headlight hot lead (+) on the bike. This feature sends a signal to the harness to turn the Clearwater Lights to 100% when the high beam is illuminated.
- **Horn Feature:** Use one of the provided Posi-Taps to connect one of the THIN WHITE wires from the harness to the horn hot lead (+) on the bike. This feature sends a signal to the harness to turn the Clearwater Lights to 100% when the horn is pressed.



*Wire routing suggestion: Tuck away excess CANbus harness wire in the right fairing as shown.*

# Wiring Diagram

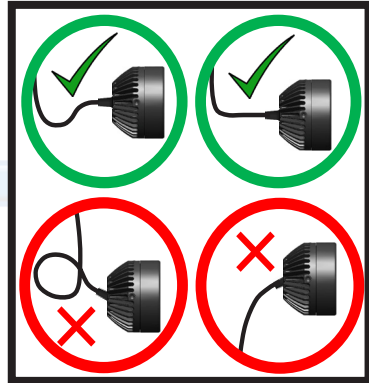




# Finishing Install

## Do Not Kink The Grommet

To maintain the integrity of the water sealing grommet, do not kink, deform or put pressure on the grommet when dressing the wires during install of Clearwater Lights.

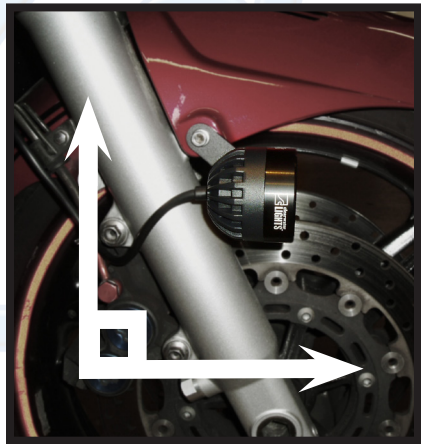


## How to Align the Lights

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. Press a level against the face of the light, and adjust its angle.

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. Visit our website for more exciting products to help you see better at night.

Ride safe!

Sincerely,

*Glenn and the team at Clearwater.*



The Clearwater Company - 11305 Sunrise Gold Circle, Suite D  
Rancho Cordova, CA 95742  
Phone: (916) 852-7029 | Fax: (916) 852-9410 | [www.clearwaterlights.com](http://www.clearwaterlights.com)

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