



clearwater
LIGHTSTM



Installation Manual

Universal Kit

Darla/Glenda LED Light Kit

Dimmable

Patent Pending

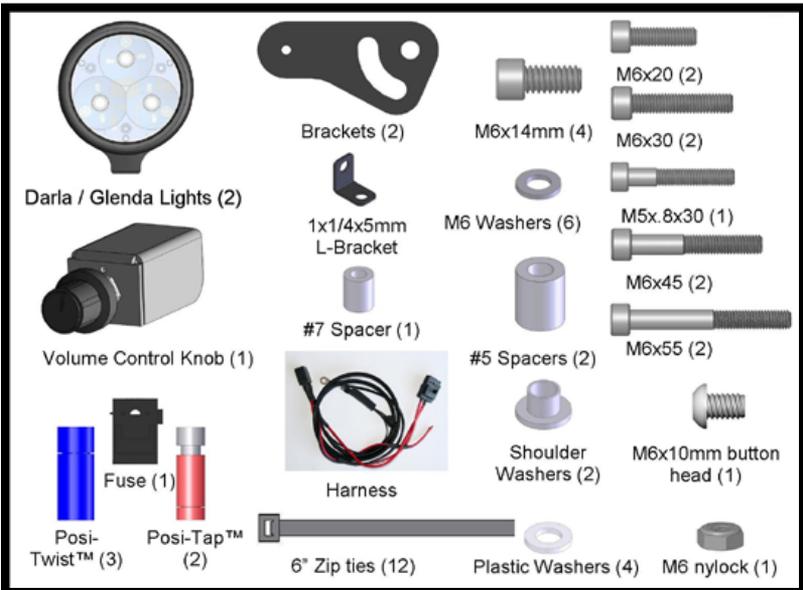


Made In USA

Step 1: 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.



The parts above reflect a "standard" kit. If you have received a kit specialized for one bike, the parts may vary.

Note:

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.

Clearwater lights include a simple and 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 on the manuals page of our website or on Posi-Product's web site at <http://www.posi-lock.com>. They simply screw together and mate the wires.

Step 2: Mounting The Lights

Fender Mount Overview: *(detailed diagrams on next page)*

- 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.

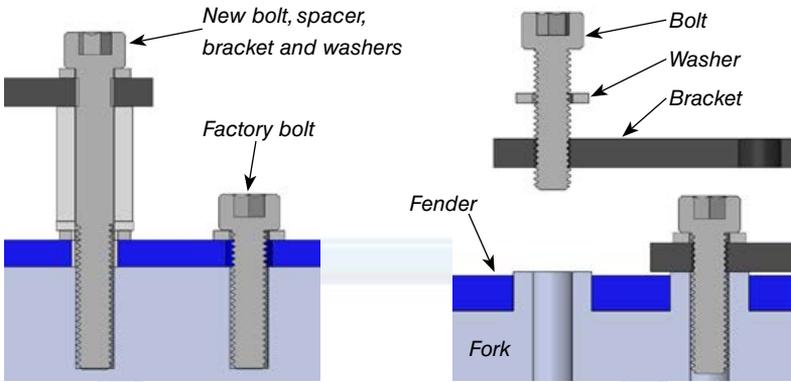
D2/G2 Universal Fender Kit



Step 2: Mounting The Lights

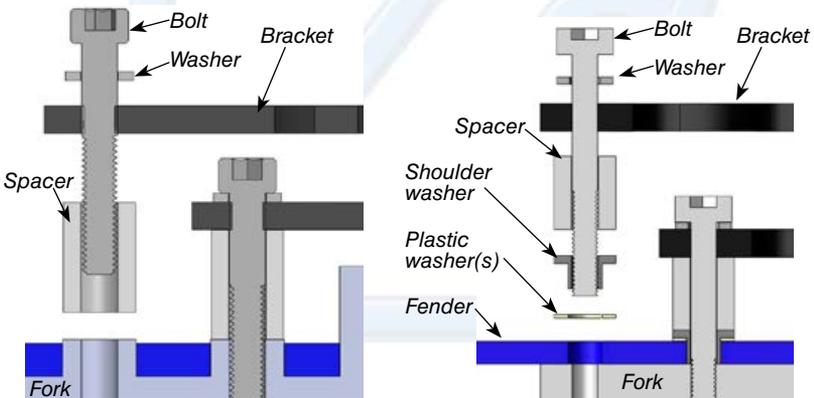
Mounting Guidelines:

The Glenda Universal Kit includes enough hardware to fit many bikes. Follow these guidelines for determining which hardware to use with your bike.



First, make sure the bolts, spacers, bracket, and washers you select have the same thread length as the factory's fender bolt.

If you are mounting to a hole that has a large stud that comes up through the fender (such as the Yamaha FJR) or is separate from the fender, flush mount the bracket as shown above.



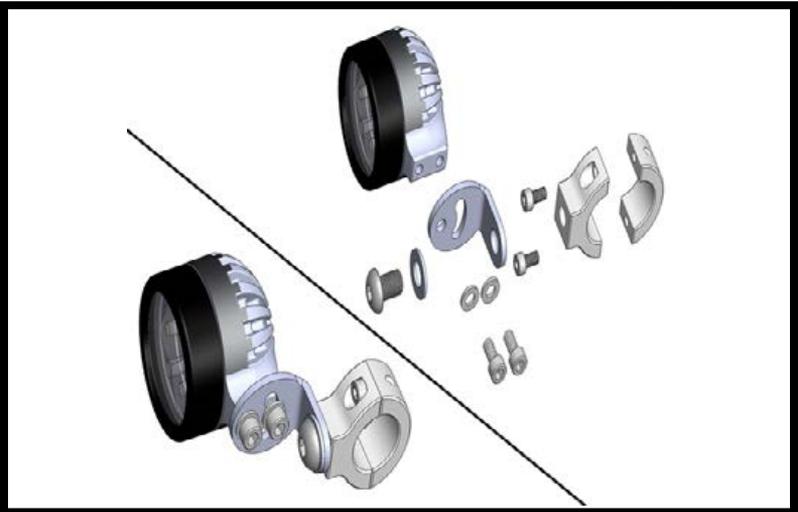
If you are mounting to a hole that has a large stud that comes up through the fender or is separate from the fender, and need to clear a step or other obstacle, add a spacer to the bracket as shown above.

Use a shoulder washer when mounting directly to the fender so the pressure from tightening the bolt doesn't crack the fender. If the shoulder washer is too long, use plastic washers to make up the difference. However, make sure the shoulder washer bottoms out on metal not plastic.

Step 2: Mounting The Lights

Mounting Lights (Crash Bar Mount):

- Find suitable location for mounting lights on crash bar or engine guard. Our mount fits 7/8", 25mm, 1", 1-1/8", and 1-1/4" bar diameters. Harley crash bars are usually 1-1/4". BMW are usually 25mm.
- 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.



Step 3: Mounting The Volume Control Knob

There are three ways to mount the volume control knob: 1) attaching it to the handlebars with the provided M5x30mm screw and #7 spacer (most BMW's), 2) drilling a hole in the fairing, or 3) mounting to a handlebar clamp.

Mounting Volume Control Knob Bracket:

(M5x30mm Screw Mount)

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



Mounting Volume Control Knob Bracket: *(Fairing Mount)*

- Mount the volume control knob 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 volume control knob with press fit.

Mounting Volume Control Knob Bracket:

(Handle Bar Clamp)

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



- **Hint for High Vibration installations:** *To keep the Volume Control Knob from rotating itself under high vibration, put a dab of silicone adhesive under the knob and let it dry. Then push the rubber knob back on. The friction of the glue under the knob will keep it in place.*

Step 3: Mounting The Volume Control Knob

Step 4: 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.

Wiring:

- Main power needs to be connected to a switched hot. This means one that turns off with the key. Using the supplied Posi-twist connectors, connect the wires according to the accompanying color wire diagram. Attach ground lug to ground on frame tab or other suitable location. Be sure not use a Low beam headlight wire on H4 headlight bikes or else the lights will shut off when the high beam is activated.
- Find a good solid ground point for the black wire terminal ring.
- Use a Posi-twist to connect the green wire from the volume control knob to the two green wires from the lights (3 wires).
- Use a Posi-twist to connect red wire from the fuse holder to the red wires from lights and volume control knob (4 wires)
- Connect ground/black wire to black wires from lights and volume control knob. (4 wires)
- If you would like to use the high beam feature (recommended), use a Posi-tap to connect the white wire from the volume control knob to the High Beam headlight hot lead (+). This will be on only when the high beam is illuminated.

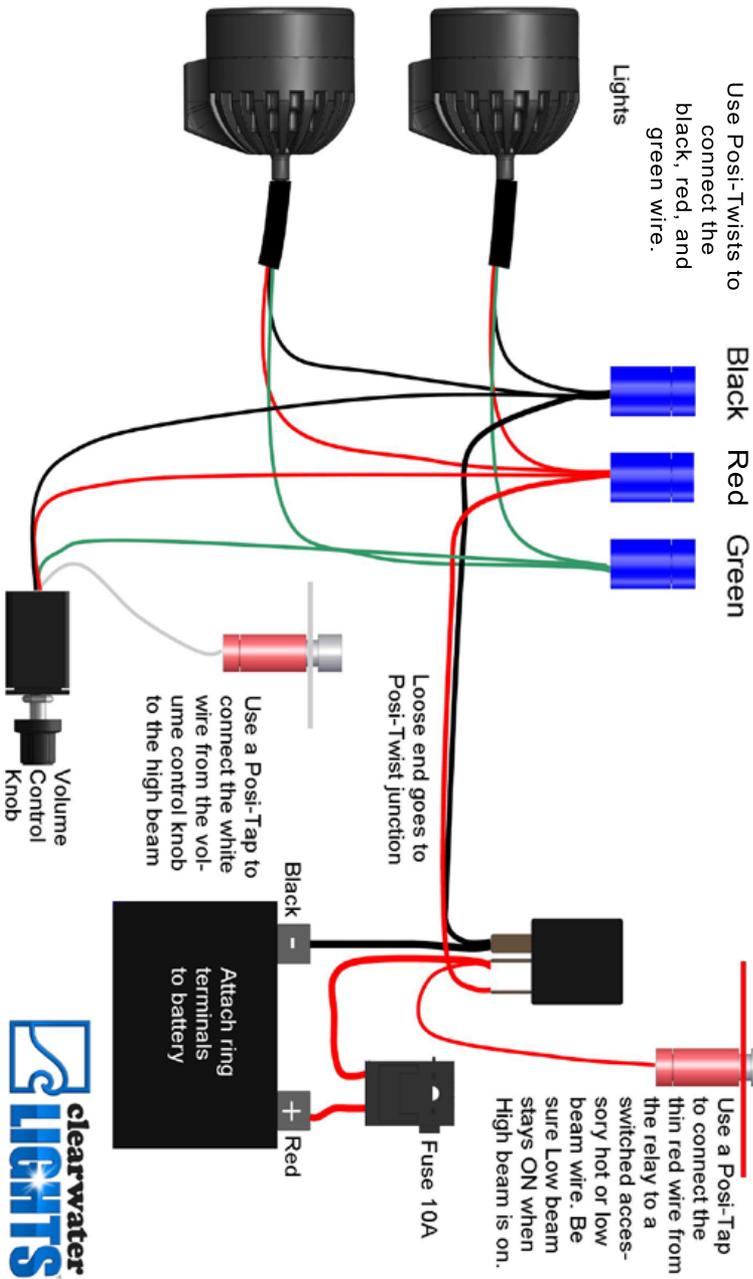
High Beam Feature:

Your new Clearwater Lights once installed will be running on the dimmer at a range of 5% to 55% total power when on low beam. If you decide to hook up the high beam feature then whenever you switch your high beams on your Clearwater Lights will automatically kick on at 100% power. This ensures that whenever you need the path illuminated most your Clearwater Lights will have your back.



Step 4: Wiring

Wiring Diagram for Glenda/Darla Lights



Step 4: Wiring / Step 5: Alignment

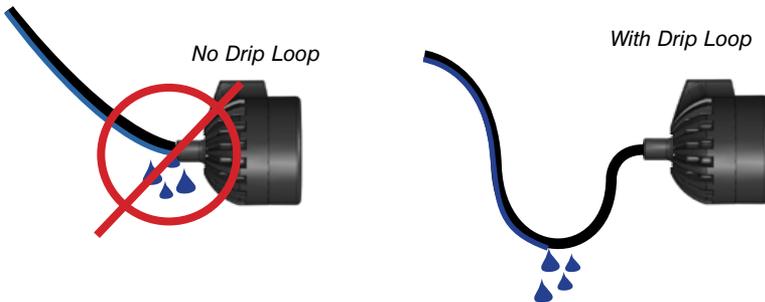
Step 5: Alignment

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.

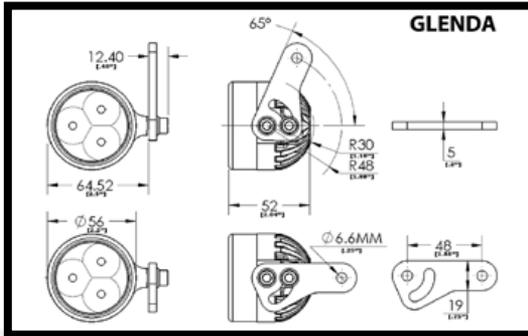


Using a Drip Loop

- Though our lights are sealed for ultimate all weather use, sometimes water sneaks by. To make sure this doesn't happen, we highly suggest using a drip loop. When installing the wiring to your lights, use a drip loop as shown below. This will keep water from dripping directly into the light and instead fall off before it can reach the back of the body.
- To do this just leave a bit of extra wiring and let it hang below the light. You could make a complete loop if you like, but just make sure the wire hangs below the light as shown below.

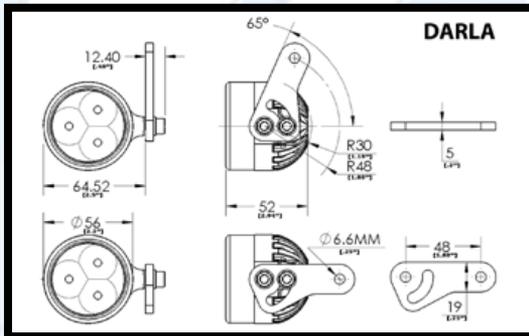


Tech Talk From Our Founder:



Glenda

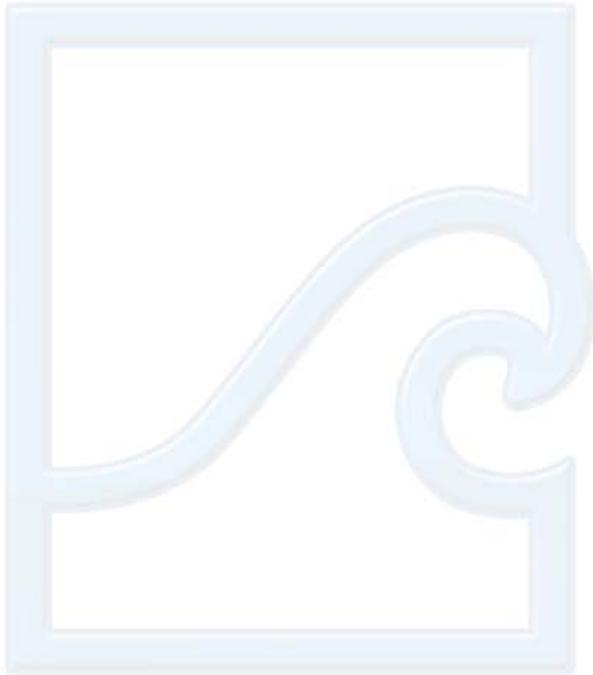
Tech Talk from our Founder: The 12 watt Glenda makes your motorcycle more visible to oncoming traffic during the day and at night provides a wide pattern of light which adds to side illumination. They are a combination of a fog and visibility light meant to make you more conspicuous. If you ride mostly on the street, during the day, Glenda is a good choice to help make you safer and more visible.



Darla

Tech Talk from our Founder: Using the same 2" diameter housing as the Glenda, we have packed 2000 plus lumens into each light while still utilizing very little power. The younger "Twin" to Glenda, Darla is now brighter and has a bit of attitude compared to her sister. Hundreds of mounting options mean these lights can be used on a wide variety of vehicles. This light is surely going to turn heads. Darlas will make you more visable to other drivers while illuminating your route at night. You wont believe how bright she is.

Notes:





1 Year Replacement Warranty

*We have over 40,000 satisfied customers around the world.
Our goal is to make you happy. If you have a problem, call
us and we will make things right.*

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.



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Version 2.4 | 12-7-15