



clearwater
LIGHTS™



Installation Manual

BMW R1200GS/GSA

Darla LED 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 ensure 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:

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.

Parts List and Bike Preparation

Fork Mount

2 Light Assembly



B709 - POT HARDWARE BAG

1 Pot Assembly



- 1 M5 x 0.8 x 30mm
- 1 M6 X 10 BH
- 1 M5 Flat Washer
- 1 #7 Spacer (3/16 X 5/16")
- 1 L-Bracket
- 1 Plastic Plug

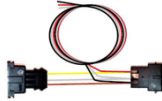
Last Updated: 1/21/21

B704 - GS HEADLIGHT KIT

2 Posi Lock



1 Headlight Adapter



1 Ring Terminal



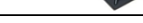
1 Posi Tap



12 6" Zip Ties



1 Zip Tie Pad



B761 - HARNESS BAG



B9 - HARDWARE BAG

2

609 - 50-51mm Clamp



2 602c brackets - 10mm (Pre-installed)



8 M3 x 10mm (Pre-installed)



2 M10 x 20 BHCS (Pre-installed)



2 M10 Lock washers (Pre-installed)



4 M6 x 14 HH



4 M6 Flat Washers



2 1' Darla Extension



Fog Light Replacement Kit

2 Light Assembly



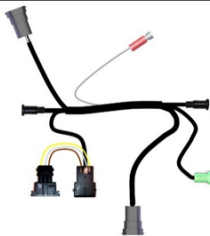
B709 - POT BAG:

1 Pot Assembly



- 1 M6 x 10 BH
- 1 M5 x 30 SH
- 1 L Bracket
- 1 Spacer #7
- 1 Plastic Plug

B723 - GSA HARNESS BAG



12 6" Zip Ties



2 1ft extension



Last Updated: 1/26/21

B40 - HARDWARE BAG

2 604 - Darla GSA Bracket



2 M6 x 35 SHCS



4 M6 x 14 HHCS Bolt



2 M6 Thin Nylock



8 M6 Flat Washers



2 M6 Star Washers

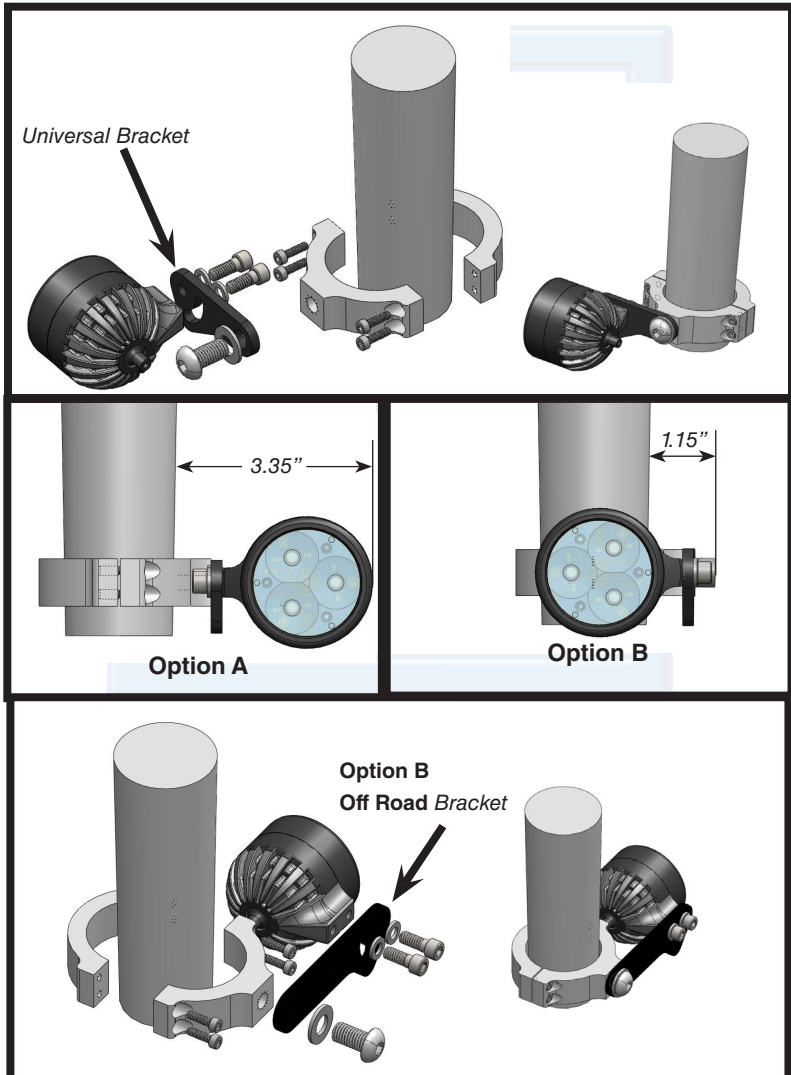


Step 2: Mounting The Lights / B9 Fork Mount

B9 and B9b Fork Mount Overview:

Use this mounting option if you would like your lights to be on the outside of your fork, (or inside for B9b Offroad option).

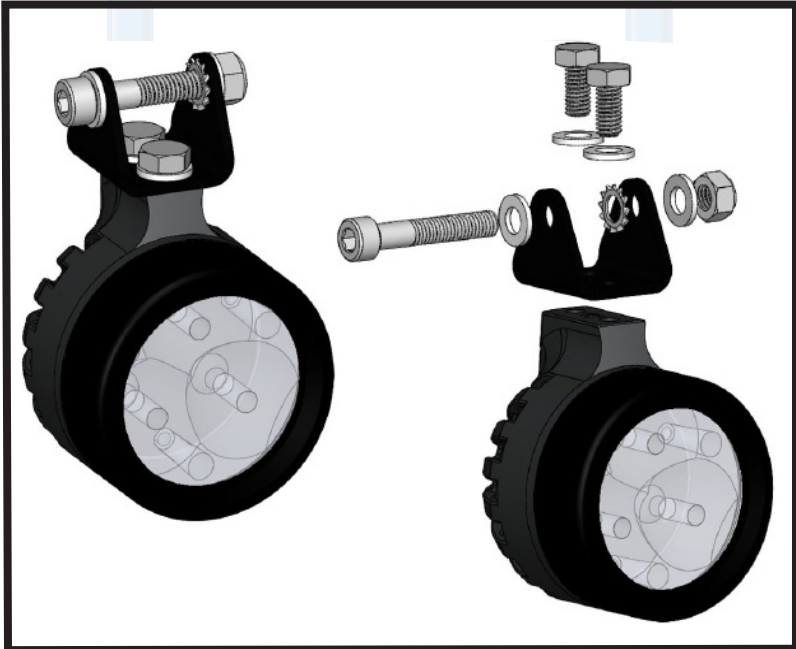
- Attach front and rear halves of clamp to the **very bottom** of the fork tube using the supplied M3 x 10mm bolts shown in the diagram below.
- Attach the universal bracket to the Darla Light using two M6 x 14 bolts and two M6 flat washers.
- Attach the universal bracket to the clamp with one M10 x 20 bolt and one M10 lock washer.



Step 2: Mounting The Lights / B40 Fog Light Kit

B40 Fog Light Kit Overview:

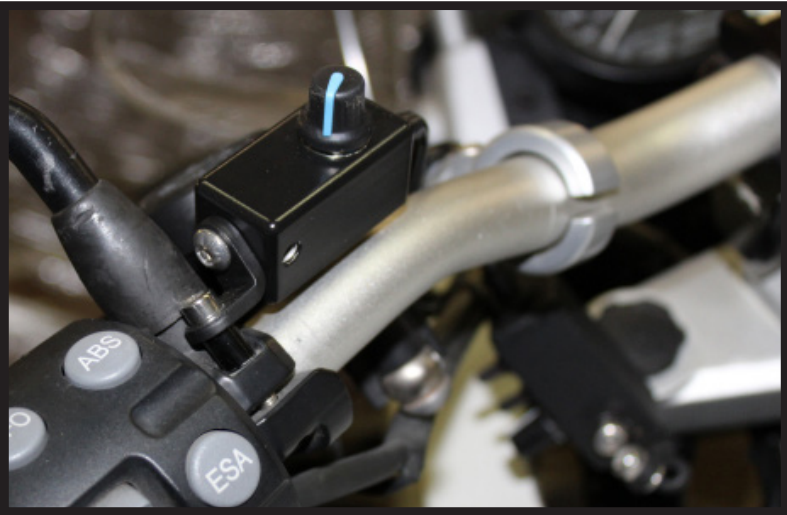
- Attach the bracket to the Darla Light using two M6 x 14 bolts and two M6 flat washers.
- Attach the Clearwater Lights bracket to the crash bar frame mounting location with one M6 x 35 bolt, two M6 washers, one M6 star washer and one M6 Nylock.
- Note: The provided star washers are to be used between the bike's crash bar mounting location and the Clearwater Lights bracket. The star washers ensure that the bracket clamps down tightly. Use one per light.



Step 3: Mounting The Volume Control Knob

Mounting Volume Control Knob Bracket:

- Mount 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.



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 usually helpful to follow existing wire routing.

Headlight Jumper Kit Wiring: *(Shown on next page)*

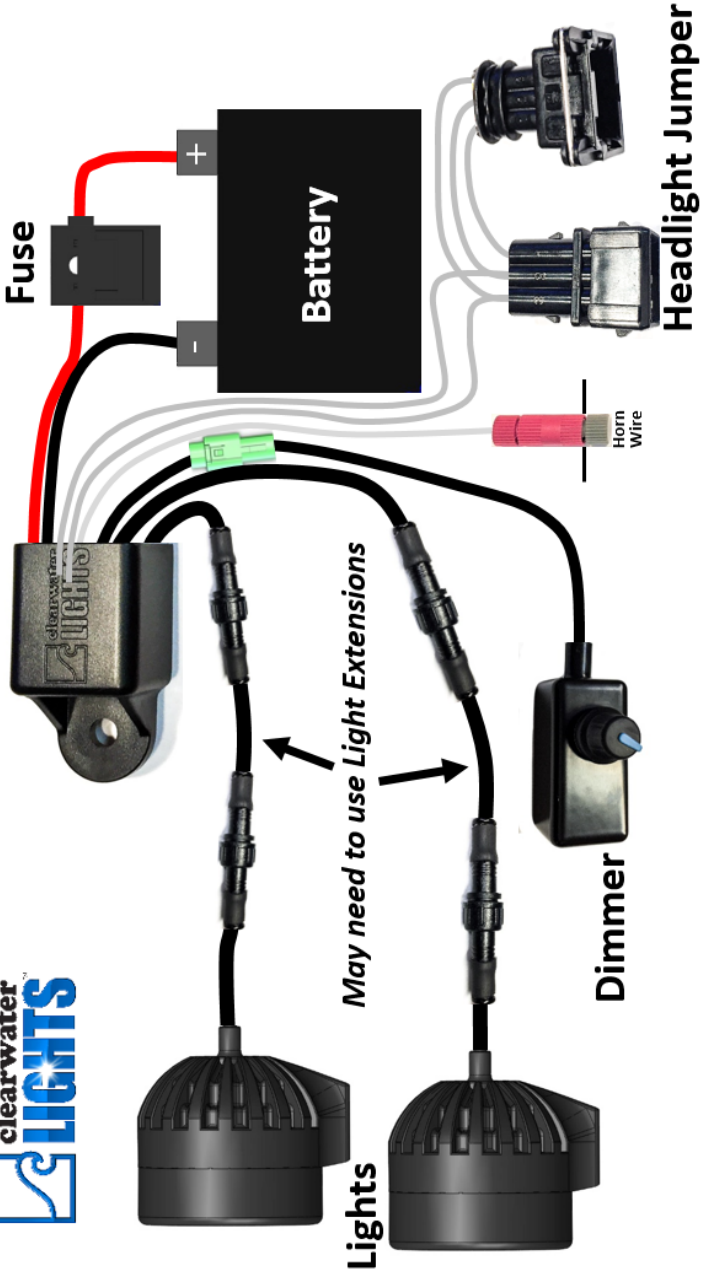
- The Headlight Jumper Kit allows BMW 1200GS-GSA riders to connect their Clearwater lights to the factory headlights without any splicing or tapping into existing wires.
- Simply disconnect the female connector from the headlight and plug our female connector back into place. Now plug the disconnected OEM female plug into the supplied male connector on the harness.
- By using this quick and easy connection your lights will now function in sync with your headlights when you turn them on and off.

Follow instructions below to finish wiring your lights:

- Main power from our lights is provided by a CANbus safe relay. Use this to supply power to the lights. The relay is activated by connecting it to the new headlight connector loose red wire.
- Attach the black ring terminal to the negative battery terminal or other good ground point.
- 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 the red wire from the relay to the red wires from the lights and volume control knob (*4 wires*).
- Use a Posi-twist to connect the black wire from the relay to the black wires from lights and volume control knob. (*4 wires*)
- If you are using the high beam feature (*recommended*), use a Posi-lock to connect the white wire from the volume control knob to the loose white wire from the supplied headlight connector.

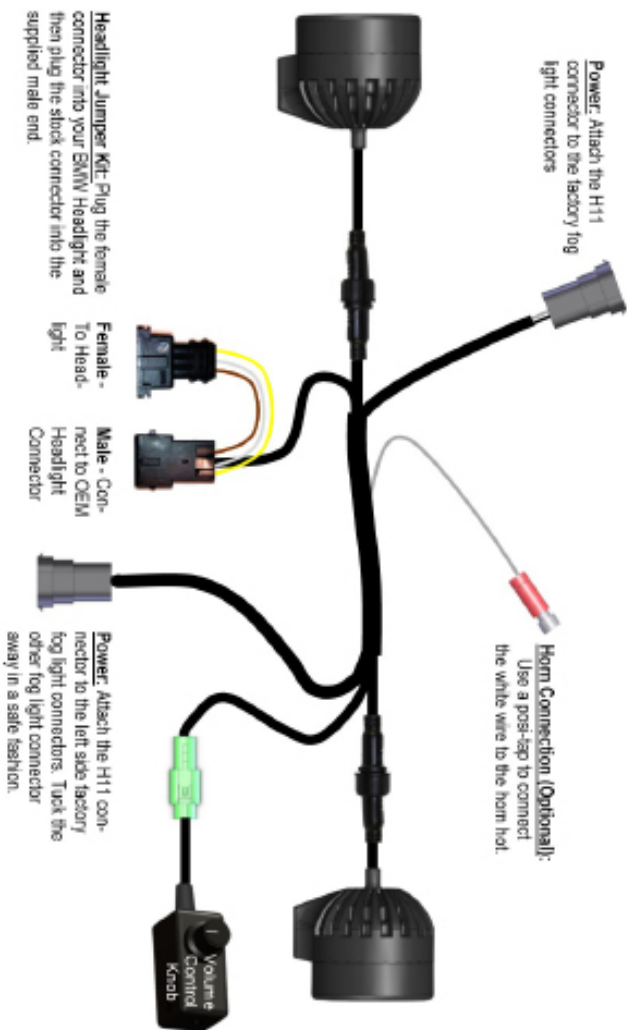
Step 4: Wiring / Headlight Jumper Kit Diagram

Single Channel Harness Wiring Diagram (w/ Headlight Jumper)



Step 4: Wiring

Wiring Diagram for GSA Darla



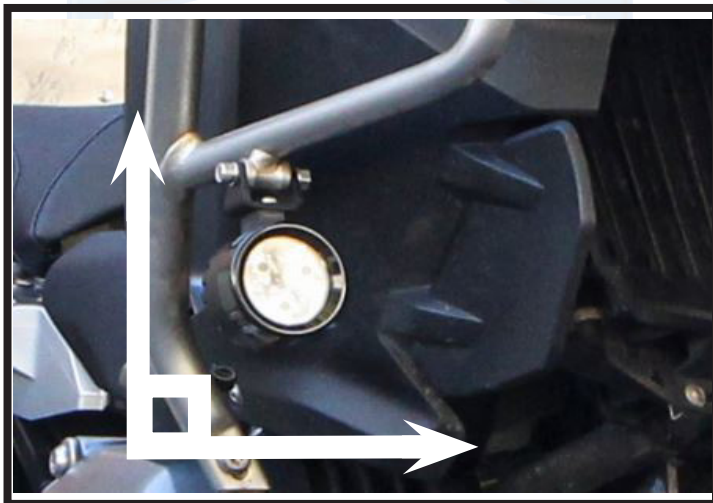
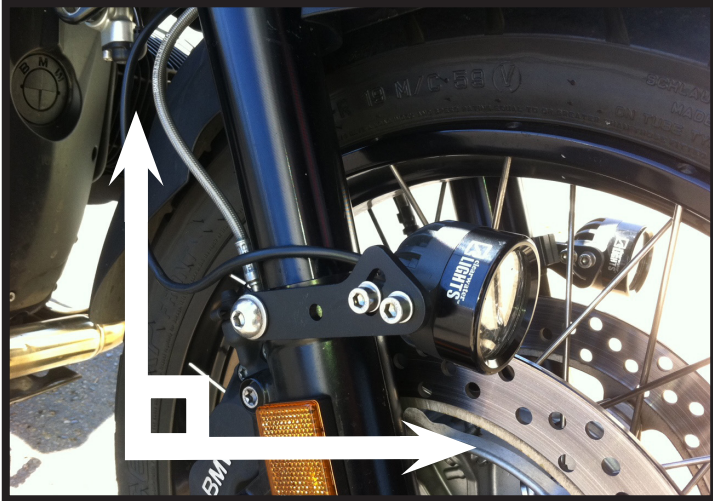
Step 5: Alignment

Aligning 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.



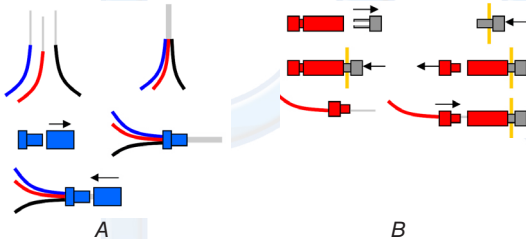
Helpful Hints:

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.



Posi-Products Installation Instructions:



Posi-twist (A):

1. Strip all wires to be inserted 3/4".
2. Twist all wires together.
3. Completely unscrew the top from the Posi-twist.
4. Feed the twisted wires through the bottom portion of the Posi-twist.
5. While ensuring the wires do not slip out of the bottom of the Posi-twist, attach the top and tighten.

Posi-tap (B):

1. Unscrew the cap of the Posi-tap (*gray or large end*).
2. Slide the wire you wish to tap into through the slot in the cap.
3. Re-attach the body of the Posi-tap and tighten.
4. Attach the other wire to the bottom using the same method as a Posi-Twist.

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.



clearwater
LIGHTSTM

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