



clearwater
LIGHTS™



Installation Manual

BMW K1200GT-K1300GT

Darla LED Light Kit

Dimmable

Patent Pending



Made in USA

Parts List

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

D-2 Parts List

D-2 Universal

2 Light Assembly



B708 - 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

B803 - CONNECTION BAG

3 Posi Twist



2 Posi Tap



12 6" Zip Ties



B702 - HARNESS BAG

1 Harness



1 Ring Terminal



1 34" Darla Pigtails (Pair)



B2 - HARDWARE BAG

2 602 - Bracket



2 Spacer #5



- 2 M6 x 20mm
- 2 M6 x 30mm
- 2 M6 x 45mm
- 4 M6 X 14 HH
- 6 M6 Flat Washers
- 4 M6 Plastic Washers
- 2 M6 Shoulder Washers

D-31 Parts List

2 Light Assembly



B708 - POT HARDWARE BAG

1 Pot Assembly



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

B803 - CANBUS CONNECTION BAG

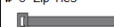
3 Posi Twist



2 Posi Tap



6" Zip Ties



B702 - HARNESS BAG

1 Harness



1 Ring Terminal



1 34" Darla Pigtails (Pair)



B31 - HARDWARE BAG

1 631R - K1300S bracket



1 631L - K1300S bracket



- 4 M5 x 18mm bolt
- 4 M6 x 18 SHCS Bolt
- 4 M6 x 14 HHCS Bolt
- 4 M5 Flat Washers
- 8 M6 Flat Washers
- 12 M6 Plastic Washers
- 4 M6 Shoulder Washers
- 4 M5 Shoulder Washers

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Step 1: Bike Preparation

Step 1: Bike Preparation

- There are two different Darla kits for the K1200GT/K1300GT bikes. One uses a D2 mounting bracket, the other uses a D31 mounting bracket. Make sure you have the correct one for your particular bike.
- Check the parts list supplied with your kit to ensure all parts are there.
- 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 further.
- 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.

Step 2: Mounting The Lights

Fender Mount Overview:

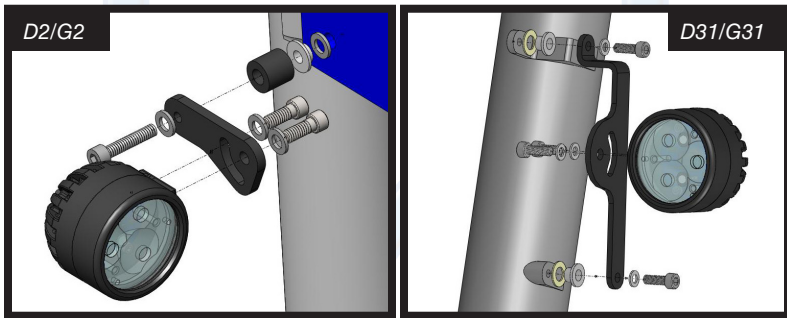
- One side at a time, remove both fender bolts. Be sure to keep fender from hanging in a position that will cause it to be damaged. Use a wire tie or piece of wire to hold the fender up until you are ready to install the new bolts. Inspect the female threads on the brackets for dirt or foreign substance. If possible, use compressed air (*wear protective glasses*) or small bottle brush to clean the threads.
- Assemble the lights and mounting bracket with new bolts.
- Gently screw all bolts in hand tight. Inspect the bolt length before tightening the bolts.
- *Follow the directions on the next page for installing the different brackets for your lights.*

Step 2: Mounting The Lights

Fender Mount Overview: (D2)

Bikes manufactured after March 2006 use M6 bolts on the fender instead of M5 bolts and therefore do not fit the the D31 bracket. For these bikes we supply our universal mounting bracket. To mount the lights with the universal bracket, follow these instructions:

- Remove the top fender bolt and secure fender so that it does not slide into a position that will damage it.
- Preassemble the lights onto the bracket, spacer, and shoulder washer as shown below. Use a plastic washer or two if the shoulder washer is too long.
- Hand tighten all bolts until all is in place, then fully tighten.



Fender Mount Overview: (D31)

- One side at a time, remove both fender bolts. Be sure to keep fender from hanging and being damaged. 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.

Step 3: Mounting The Volume Control Knob

Mounting The Volume Control Knob 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 can also 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 4: Wiring / Overview

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 Connections:

- Main power from our lights is provided by the Clearwater Lights harness. Use this to supply power to the lights. The relay is activated by using a tap to an accessory power lead.
- 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 RED from the CANbus 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 are using 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.

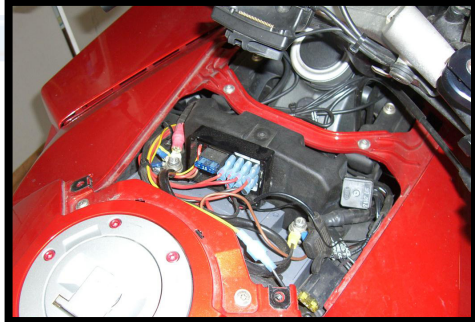
Step 4: Wiring / Disassembly

Body Panel Removal:

- Start by removing the Top gas tank battery cover (2 Screws).



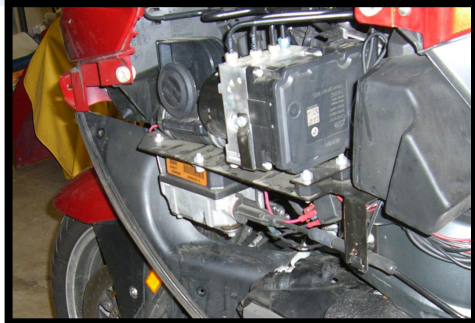
- Gas tank battery cover removed. (*Disregard Touratech Canbus helper shown, not part of installation.*)



- Remove left side body panel (10 screws).

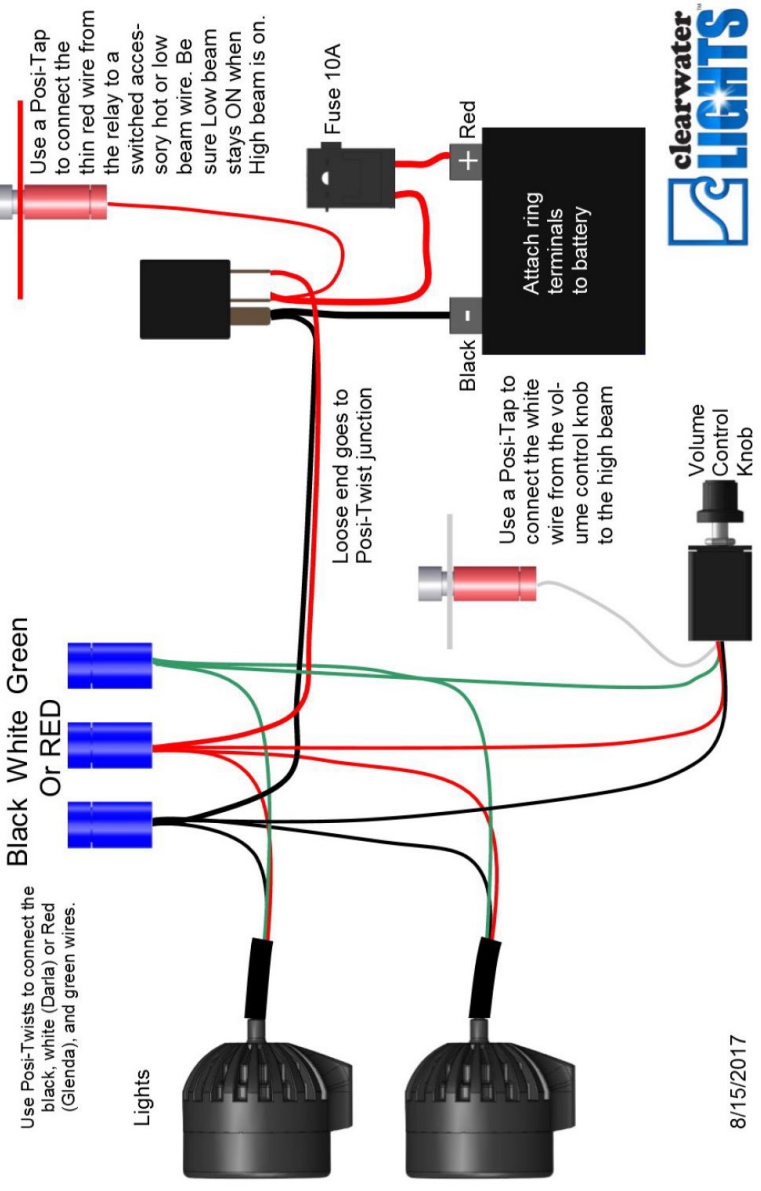


- Left body panel removed, Stebel horn shown not part of installation.



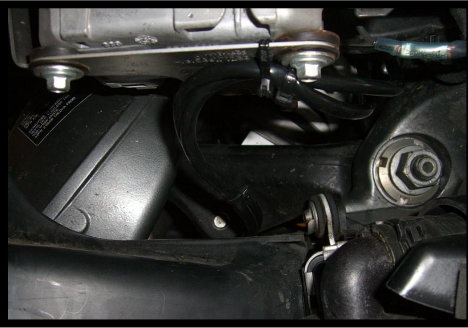
Step 4: Wiring

Wiring Diagram for Darla Lights

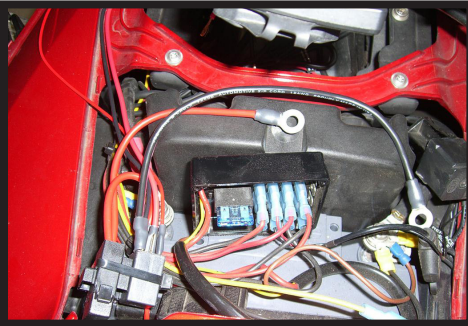


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Step 4: Wiring



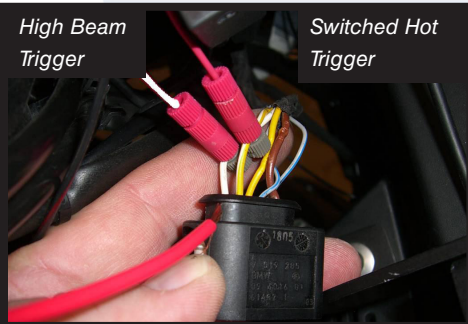
- Zip-Tie the cables from the lights as shown to the brake unit mounting bracket as shown. Verifying that there is enough slack in the cables to not interfere with turning or the shock movement.



- Remove the fuse, connect the harness to the battery, black to negative (-) and red to positive (+).



- Tap into the Headlight wiring harness for switched power and the high beam trigger. This connector is located under the dash on the right side. Depress tab on top of connector and pull straight back to disconnect.



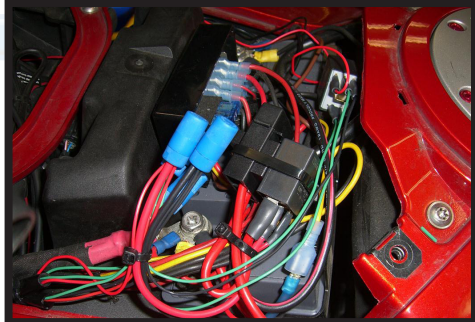
- Install supplied Posi-Taps on to the YELLOW/WHITE wire which is used for the SWITCHED HOT trigger for the Clearwater Lights harness (RED). For the high beam feature, connect the WHITE wire from the volume control knob to the WHITE wire on the connector.

Step 4: Wiring

- Complete the wiring to the Clearwater Lights harness and high beam feature using the wiring diagram on page 8.



- Completed wiring shown. Install fuse in fuse holder, turn bike on and test lights dimmer and high beam for proper operation.
- Install body panels in reverse order of removal.



- Zip-Tie the cables coming up from the lights along the braided brake lines as shown.



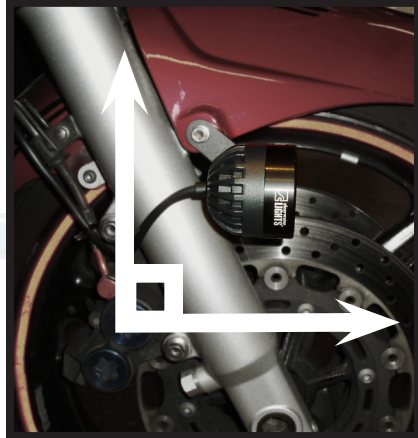
Important:

Verify that there will be no interference with the shock or turning of the forks.

Step 5: Alignment & Grommet

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.



Do Not Kink The Grommet

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

Do Not Kink The Grommet



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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