



**clearwater**  
**LIGHTS™**



**Installation Manual**  
**BMW R1200RT (2005-2013)**

**Darla LED Light Kit**

**Dimmable**

*Patent Pending*

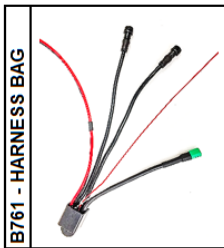
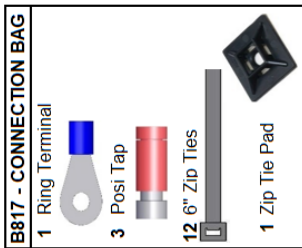
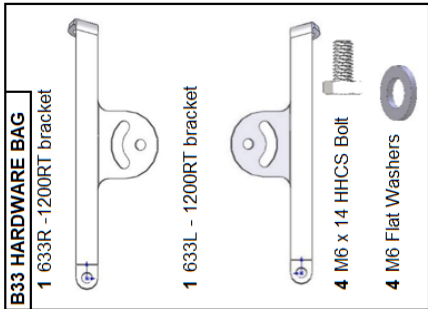


**Made in USA**

# 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.



## D-33 - BMW R1200 RT 2005-2013



Last Updated: 1/22/21

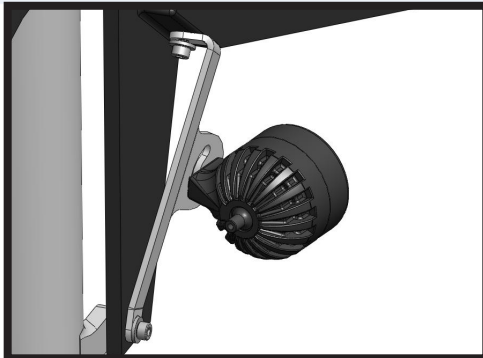
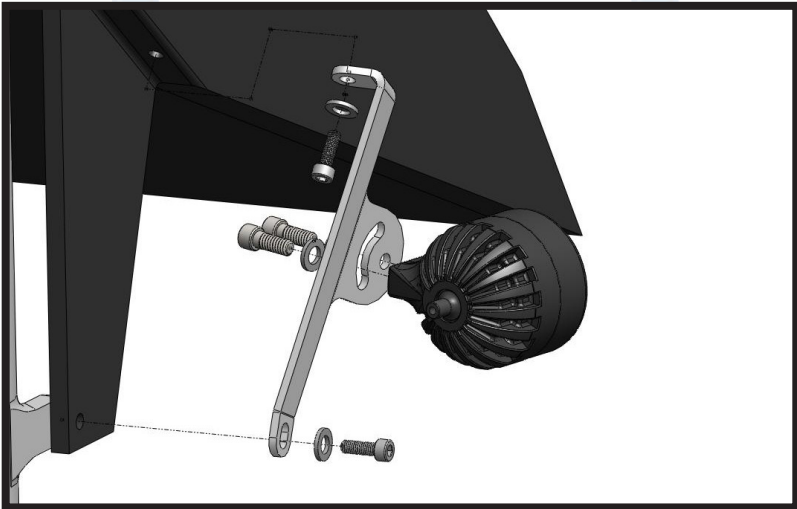
**Note:**

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.

## 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 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 and mounting bracket with new bolts. Use the M6 x 12 mm bolts and M6 washers to secure Glenda to the bracket, and the factory fender bolts to attach the bracket assembly to the fender.
- Gently screw all bolts in hand tight. Inspect the bolt length and spacer alignment before tightening the bolts. Assembly will resemble the exploded diagram below.



## Step 3: Bike Dissassembly

### Removing Body Panels:

- 1 Torx near speaker (A), 1 Torx at knee position (B), 2 Torx inside front wheel cowl (C)



A



B



C



D



E



F

- After screws are removed from both left and right side body panels as pictures show, with fingers lift out the speaker cover while rotating panel to the left. When you reach the position in picture (D), push panel forward to release front of panel from its placement inside the front wheel cowl. At this point the panel is free. If you have the BMW radio kit you will have wiring that will be attached to left panel. Right Panel is removed in same fashion and will not have any wiring attached.

## Step 4: Wiring (*Overview*)

### Wire Routing:

- Leave body panels off until the wiring is complete.
- 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 a CANbus safe harness assembly. Use this to supply power to the lights. The relay is activated by using a tap to an accessory power lead.
- Run the red and black power wires directly to the battery. The fuse will protect the system in the event of a short.
- 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)
- Use a Posi-twist to 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 wire will be on only when the high beam is illuminated.

## Step 4: Wiring

### Wiring Procedure:

Locate the Headlight wiring harness under the dash, right side, this is where you will be tapping in for high beam trigger and switched power. Depress tab on top of connector and pull straight back to disconnect.



### Body Panel Removal:

Start by removing the passenger and driver seat. Then remove the tank bag holder. (4 Screws, 2 at the bottom by the seat and 2 in the front by the handlebars).



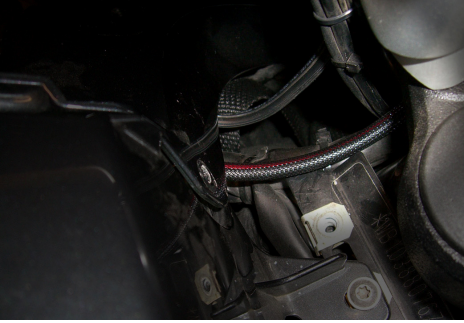
Remove three screws on the left hand side panel and unhook the panel from the center plastic by carefully lifting up on the side panel. The lower tab needs to be lifted at the bottom screw.



It should resemble the image to the right.



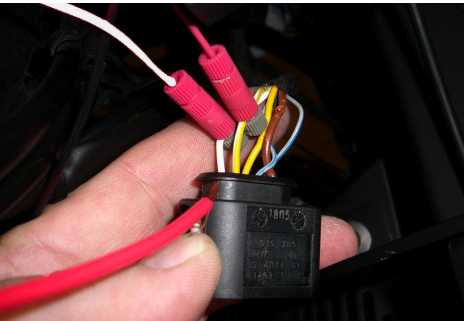
## Step 4: Wiring



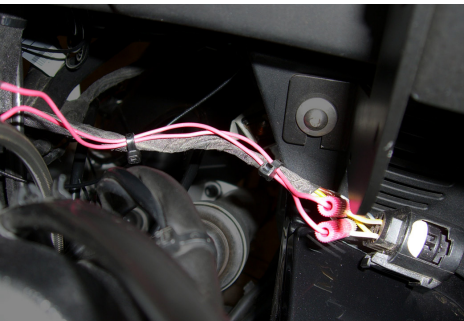
Feed the CANbus power cable harness in the space between the side panel and the tank. Image below shows the cable exiting the front of the side panel by the handlebars.



This shows the cable harness exiting the bottom of the side panel by the battery.



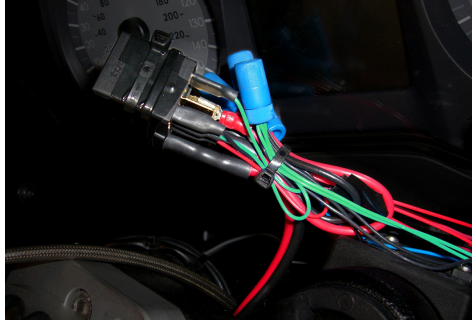
Install the supplied Posi-Taps on to the yellow with white stripe wire which is the low beam and will be used for switched power trigger for the CANbus harness relay.



The white wire on the connector is the high beam trigger for the Hi/Lo feature if used. Tie wrap the new wires to the existing headlight harness as shown.

## Step 4: Wiring

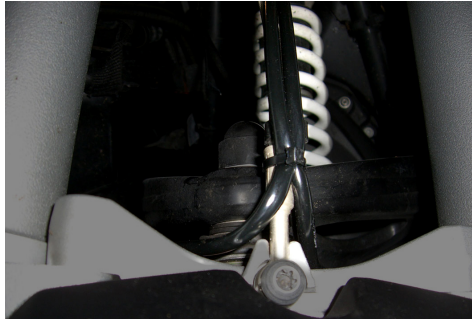
Connect the CANbus ring connectors to the battery and complete the wiring to the Canbus relay as shown in the schematic on page 9.



Tuck the completed wiring under the left hand side of the dash and tie-wrap to the support bar as shown below.



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



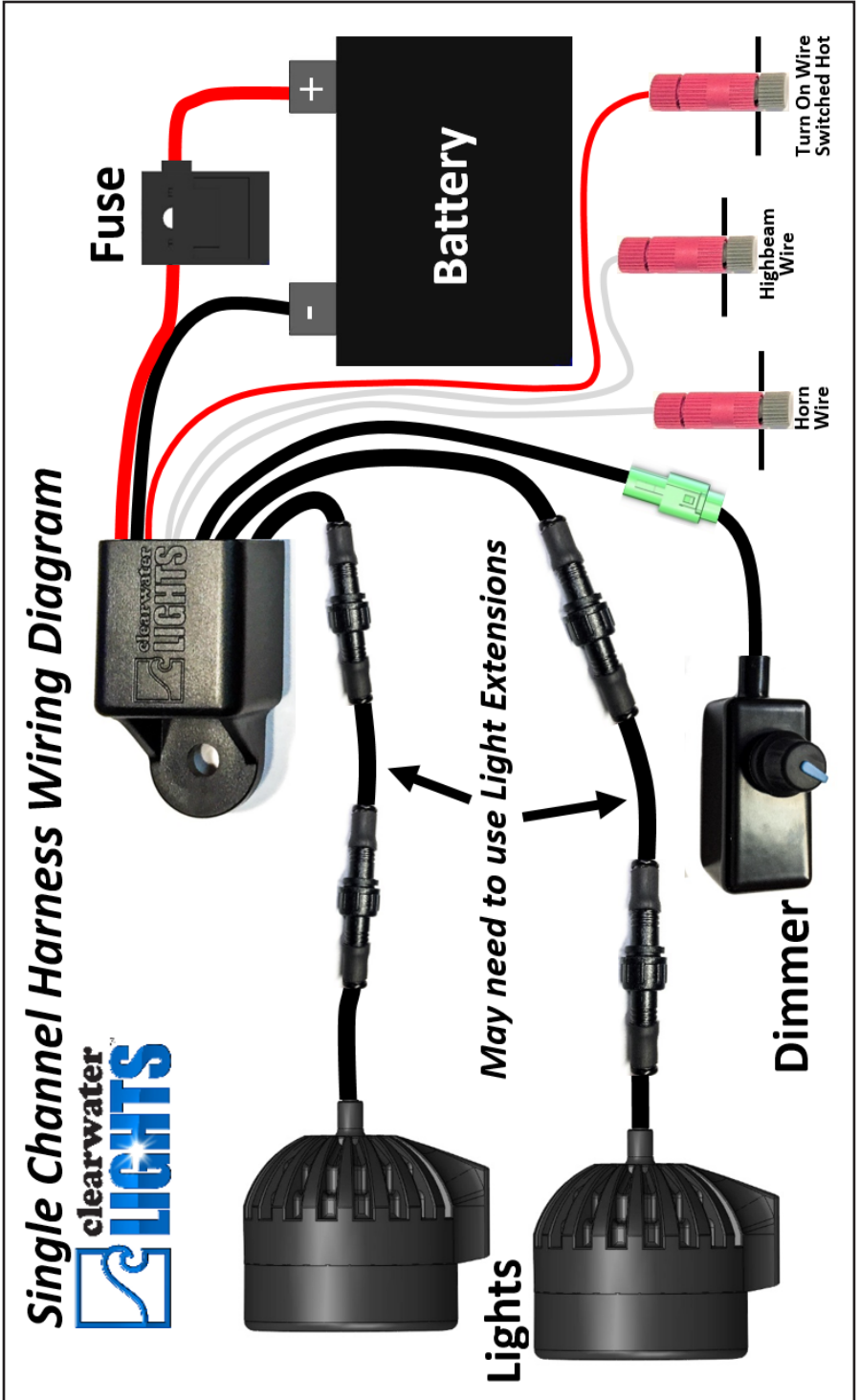
### **Important:**

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





# Step 4: Wiring



## Step 5: Mounting The Volume Control Knob

### Mounting the Volume Control Knob & Switch:

We recommend that you mount the volume control knob using the L bracket to the clutch lever assembly. See photo below for location.

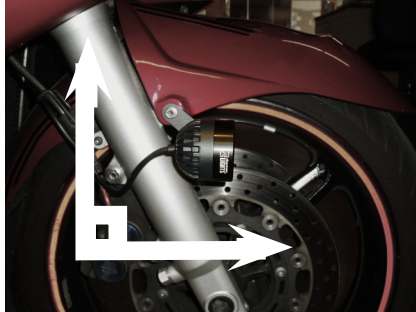


- **Hint for High Vibration installations:** *To keep the Volume Control Knob from rotating itself under high vibration, put a dab of silicone adhesive under the knob and let it dry. Then push the rubber knob back on. The friction of the glue under the knob will keep it in place.*

## Step 6: Alignment / Tips

### Aligning the Lights:

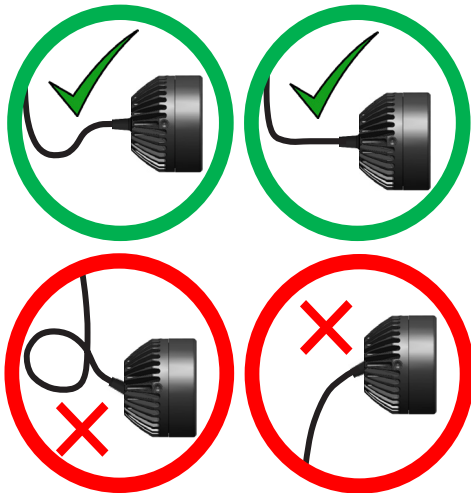
Ask an assistant to help you with this procedure. Make sure the bike is on level ground and have an assistant sit on the bike. With a right angle board or object, position the board on the floor and slide it up to the light. The goal is to adjust the lights so that the light is level with the ground. 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.

Ride safe!

Sincerely,

Glenn and the team at Clearwater.



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