



clearwater
LIGHTS™



Installation Manual

BMW R1200RTW-R1250RTW

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 the 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.

D50 - Fork Mount Parts List (2014-2019)

2 Light Assembly



B713 - CAN3 BAG

1 5' Long Data Cable



1 CAN-Opener



B764 - CANopener HARNESS BAG

1 Harness + Fuse + Fuse Holder



B805 - CONNECTION BAG

1 Ring Terminal



12 6" Zip Ties



2 12" Zip Ties



1 Zip Tie Pad



2 1 ft Extension



Last Updated: 1/25/21

B58 HARDWARE BAG

2 658 - GSW Clamp bracket- front and back



2 602c B2c brackets (Pre-installed)



8 M3x10 (Pre-installed)



4 M6 X 14 SHCS Bolt



4 M6 Flat Washers



2 M10 X 20 (Pre-installed)



2 M10 Lock Washers (Pre-installed)



1 Fishing Line

2 Black Double Sided Tape

1 Alcohol Swab Pad

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

D51 - Crash Bar Bracket Parts List

2 Light Assembly



B713 - CAN3 BAG

1 5' Long Data Cable

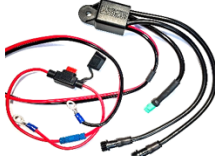


1 CAN-Opener



B764 - CANopener HARNESS BAG

1 Harness + Fuse + Fuse Holder



B805 - CONNECTION BAG

1 Ring Terminal



12 6" Zip Ties



2 12" Zip Ties



1 Zip Tie Pad



2 1 ft Extension



B150 HARDWARE BAG

2 D CB Bracket



4 M6 x 14 BH Bolt



2 M10 x 16 BH Bolts



4 M6 Flat Washers



2 M10 Lock Washer



HARDWARE IS ALL BLACK

B25 - HARDWARE BAG

2 Crash Bar Clamp - 25mm



4 M5x15 (Pre-installed)



D-59 - Fog Light Bracket Parts List

2 Light Assembly



B713 - CAN3 BAG

1 5' Long Data Cable



1 CAN-Opener



Last Updated: 1/25/21

B764 - CANopener HARNESS BAG

1 Harness + Fuse + Fuse Holder



B805 - CONNECTION BAG

1 Ring Terminal



12 6" Zip Ties



2 12" Zip Ties



1 Zip Tie Pad



2 1' Darla Extension



B40 - HARDWARE BAG

2 604 - Darla GSA Bracket



2 M6 x 35 SHCS Bolt



4 M6 x 14 HHCS Bolt



2 M6 Thin Nylock



8 M6 Flat Washers



2 M6 Star Washers



B123 - HARDWARE BAG

1 623 - R1200RTW Factory Fog Light Left



1 623 - R1200RTW Factory Fog Light Right



2 M8 x 40 HH Bolt



2 M8 Flat Washers



2 M8 Nut



Tools Needed For Installation



2.5mm Hex Key



4mm Hex Key



5mm Hex Key



6mm Hex Key



T25 Torx



T30 Torx



Zip Tie Cutting Tool



10mm Wrench



**Wire Strippers
(Optional)**

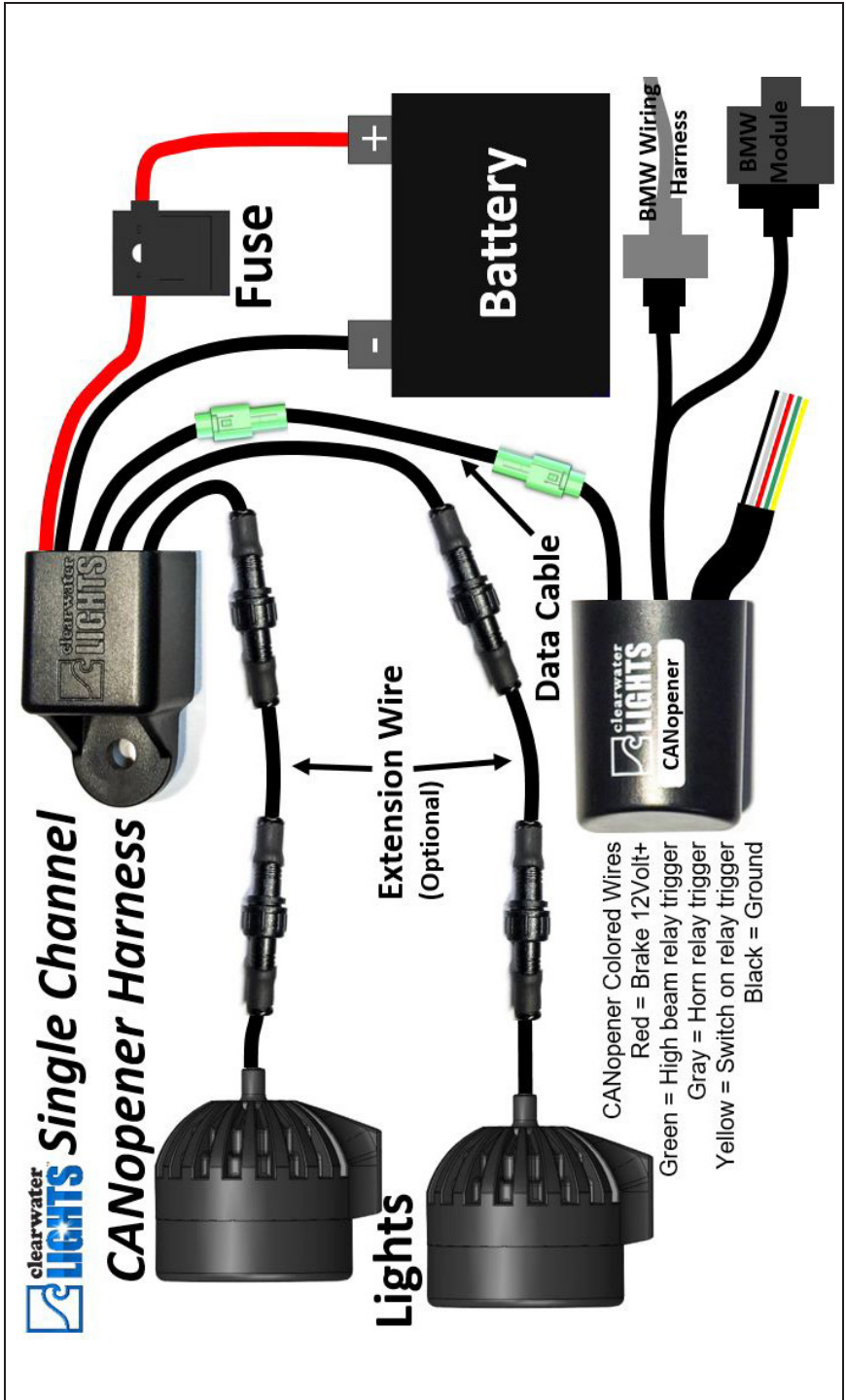


13mm Wrench



**Terminal Crimper
(Optional)**

Wiring Diagram

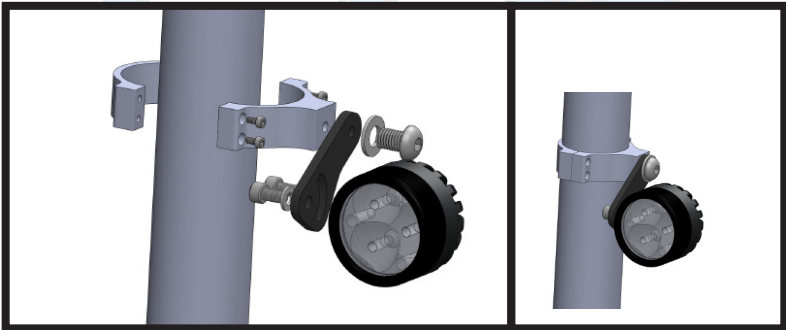


Mounting The Lights / Fork Mount

Note: *The engine needs to be running for lights to work*

Fork Mount Overview:

- Your RTW has a fork guard on the fork tubes that interferes with mounting your Darla lights. Loosen the guard and continue with the installation. Once your lights have been installed, tighten the guard back to the fork.
- Attach the two clamp halves to the bottom of the machined fork tube using the supplied M3 x 10mm bolts as shown in the exploded view 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 flat washer.
- Route the wires from the lights up the brake lines, making sure not to kink the grommet at the light. Run wires to right hand side of the bike, leave the wires loose for now.



Mounting The Lights / Fork Mount



Mounting The Lights / Factory Fog Light



Mounting The Lights / Crash Bar Mount



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.

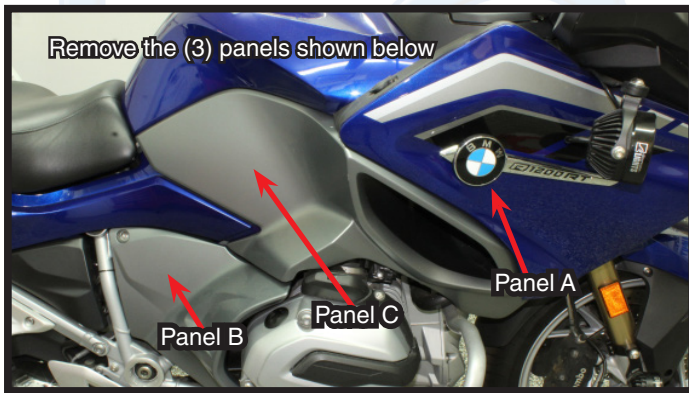
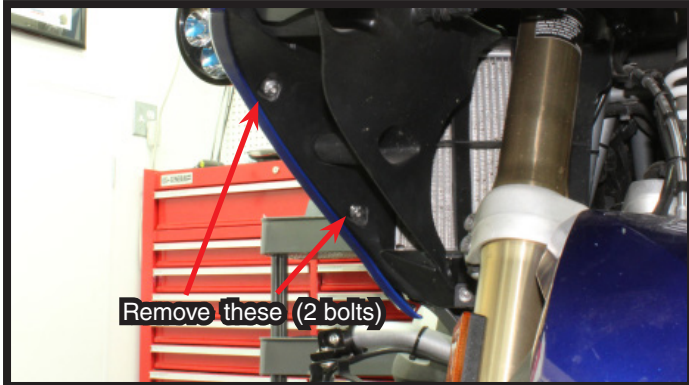
The goal is to adjust the lights so that the light is level with the ground.



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.

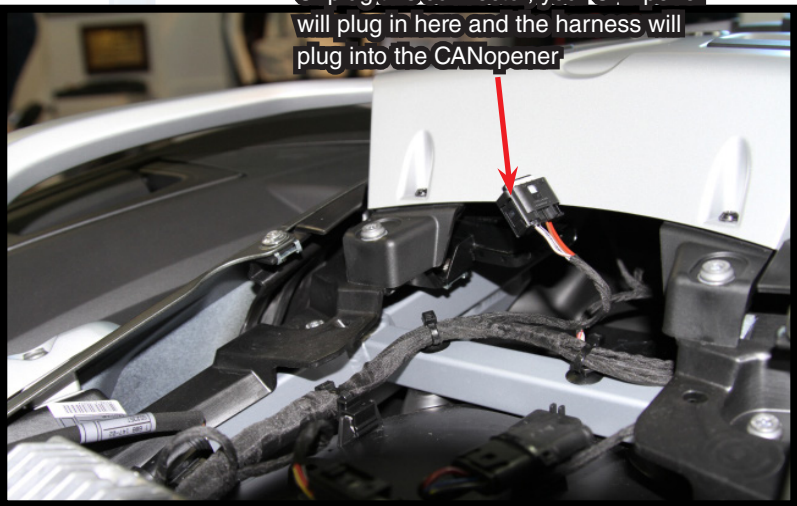
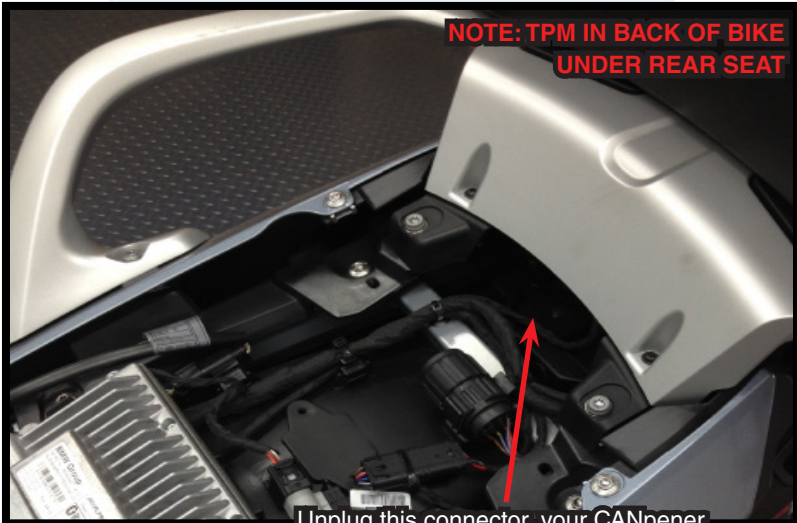
Disassembly

RTW Disassembly



Wiring

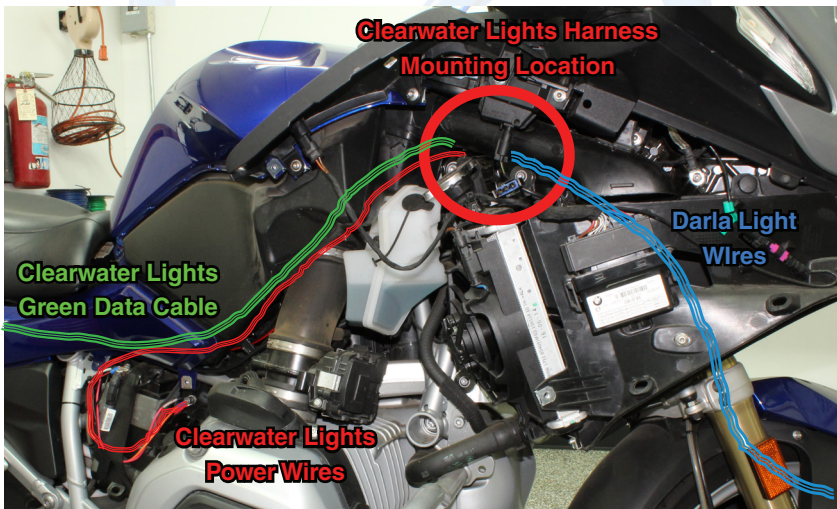
- Remove both seats from the bike and set aside.
- RTWs have a **TPM (Tire Pressure Monitor) under the passenger seat, in the back of the bike**. Unplug the wiring harness from it and plug your Clearwater CANopener in it's place. Then plug the wiring harness into the CANopener.
- Route the wires from the CANopener along the main wiring on the Right side of the bike to the front. Leave the wires hanging here for now.
- Secure the CANopener to the plastic inner fender with provided velcro. Be sure to clean any dirt or dust from area before affixing the CANopener. Connect the green connector data cable to the CANopener.



Wiring

Wire Routing:

- While routing wires be sure that they cannot become tangled or caught in either suspension or steering parts. Check movement of both steering and suspension before riding the bike.
- Mount the harness on the right side of the bike (right side faring will need to be removed).
- The Darla light wires will need to be routed up to the Clearwater Lights harness. Darla light extensions may need to be used.
- Connect the green connector from the Clearwater Lights harness to the green connector to the CANopener. Use the green connector extension cable.
- Remove the fuse from the fuse holder on the Clearwater Lights power wire. Route the power wires from the Clearwater Lights harness to the battery, connect the BLACK wire ring terminal to the negative battery terminal, then the RED ring terminal to the positive battery terminal. Reinsert the fuse into the fuse holder of the Clearwater Lights system.



Note: To test/run the Clearwater Lights, the bike must be fully running. The Darlas should go to 100% brightness when the high-beam is pressed. Refer to the CANopener Manual to learn how to adjust the brightness of the lights and for further setting options.

Be sure all wires are tucked out of the way, securing where needed with the included zip ties. Reinstall side and battery covers, verify that no wires interfere with the steering or suspension parts of your bike and enjoy!

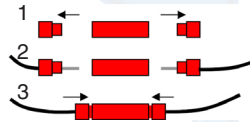
Hints & Tips:

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.



Posi-Products Installation Instructions:



Posi-lock:

1. Remove both ends from the Posi-lock.
2. Strip wire 1/2" and insert into bottom portion of the Posi-lock.
3. Hand tighten the Posi-lock onto bottom portion with wire, repeat for other side.

Notes:



Notes:



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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