



clearwater
LIGHTSTM



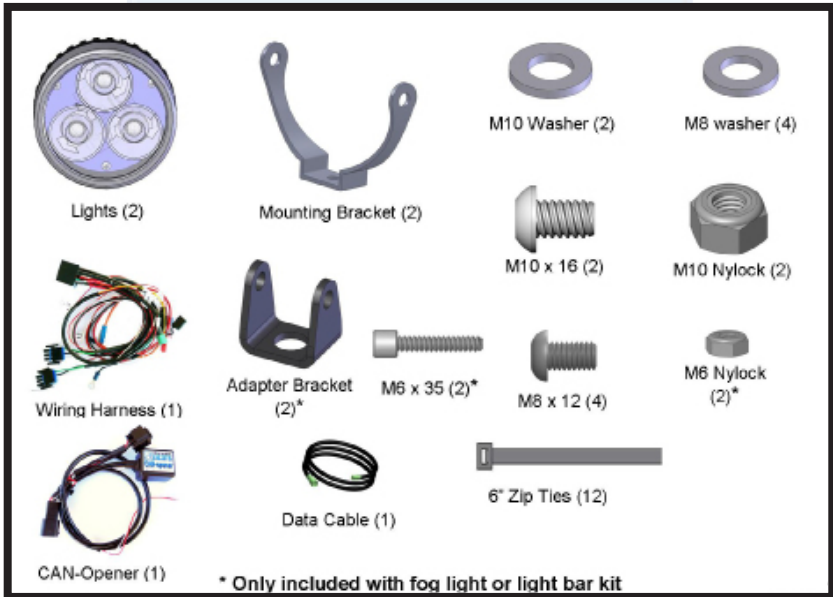
Installation Manual
BMW R1200RTW-R1250RTW
Krista, Erica, Sevina LED Light Kit
Dimmable
Patent Pending



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.



Please take the time to review the included instructions. Installation of your new Clearwater Lights is straightforward. Be sure to follow the suggestions to keep the installation safe and reliable. If you have any questions or comments, please feel free to contact us.

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)**

Summary of Installation

1. Mount the lights and brackets.
2. Disassemble the side panel.
3. Remove fuse from Clearwater Lights wiring harness
4. Mount the wiring harness to a secure location.
5. Connect the CANopener to Tire Pressure Monitor (*TPM*) under the passenger seat.
6. Connect the lights and CANopener to their corresponding plugs on the wiring harness.
7. Secure wires, making sure they won't get caught in the suspension or steering column.
8. Attach power lines to battery and replace the fuse.

IMPORTANT THINGS TO REMEMBER!

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

Brake light not to exceed 1AMP

CANbus controller fuse 7.5 AMP (*located under seat*)

Abbreviations

TSC = Turn Signal Cancel

WW = WonderWheel (*BMW multifunction controller*)

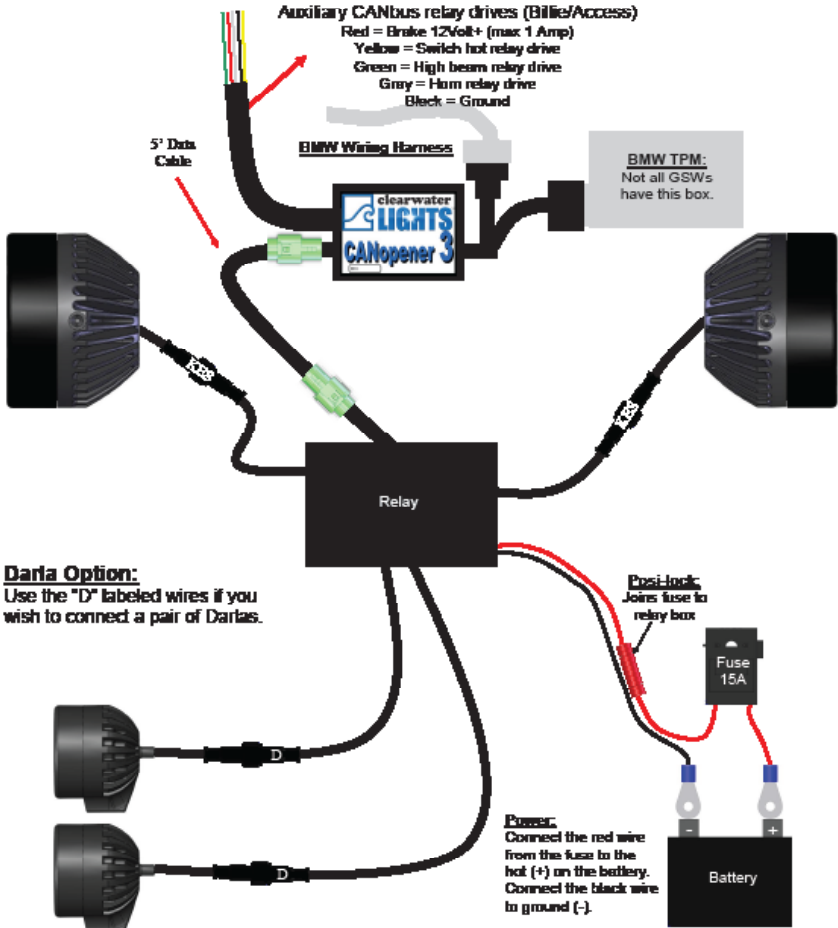
TPM = Tire Pressure Monitor

FTP = Flash To Pass

OBL = Optional Brake Light

Wiring Diagram

Wiring Diagram for Krista/ Erica/ Sevina



Step 1: Mounting the Lights

Krista, Erica, Sevina Technical:

The Krista, Erica, and Sevina are bright driving lights that use digital drivers to produce very efficient light from High Power LEDs. By using a proprietary digital volume control, we can dim the lights via the factory WonderWheel (WW) controller. This sends a digital signal to our microprocessor that changes the pulses of electricity to the LED 's, turning them on and off at a rate of 250 times per second.

As we increase the time that the lights are off, the human eye perceives this as dimming. Increased efficiency occurs with the dimming as well. The Krista, Erica, and Sevina can be used in a "low" beam mode or "high" beam mode.

Mounting the Lights: (Fog Light Bracket)

- Mount the adapter bracket to the U-shape bracket using the provided M10 x 16 button head bolts, M10 washers and M10 nylock nuts.
- Mount your Krista/Erica/Sevina lights in the U-shape bracket using the provided M8 x 12 bolts and M8 washers.
- Route wiring from Clearwater Krista/Erica/Sevina light along factory fog light support and zip tie into place, making sure to leave enough wire at the light for a drip loop.
- When routing the wires take care not to route them such that they will interfere with the operation of the bikes steering or suspension.



BMW 1200RTW Fog Light Mount (Right)



BMW 1200RTW Fog Light Mount (Right)



BMW 1200RTW Fog Light Mount (Left)

Step 1: Mounting the Lights

Mounting the Lights: *(Crash Bar Bracket)*

- Our crash bar mount comes with an optional L-bracket to be used at your discretion.
- The L-bracket can be used to give you more clearance in locations that may have body panel interference.
- Decide where you want to mount your new Clearwater lights on your bikes crash bar.
- Mount the clamp halves to your crash bar, position as needed for your application.
- If you are using the provided L-bracket, you will position the clamp so that the light mount will be parallel to the ground.
- If you are not using the L-bracket, the clamp will be perpendicular to the ground. Refer to photos below.
- Mount the Mod bracket to the clamp using the included M10 x 16 button head bolt.
- Using the provided zip ties, secure the lights wiring, taking care as not to route them such that they will interfere with the operation of the bikes steering or suspension.



Crash Bar Mount
without L-bracket



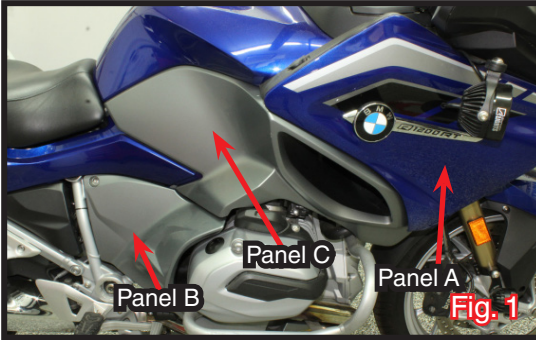
Crash Bar Mount
with L-bracket

Shown on Touratech crash bars

Step 2: Body Disassembly

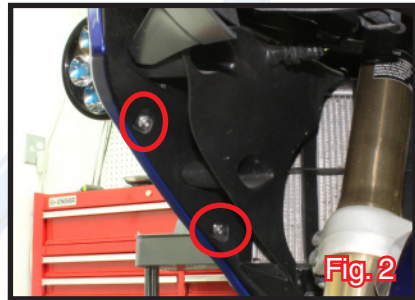
Panel Removal:

To install the wiring harness, the (3) panels shown below in (Fig. 1) will have to be removed. Remove the rider and passenger seat from bike and set aside.



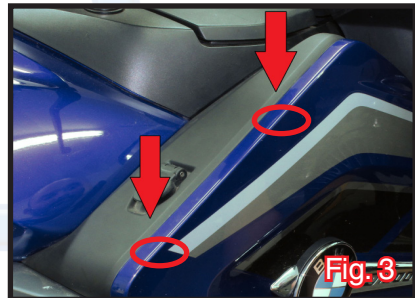
(PANEL A REMOVAL)

Remove the (2) bolts under the fairing using a #25 torx wrench. [Fig. 2]



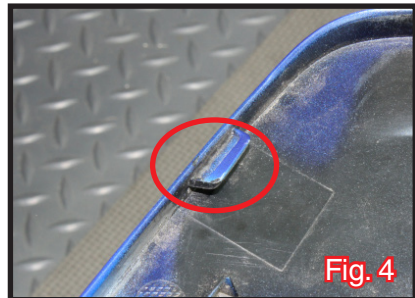
(PANEL A REMOVAL)

Before removing the fairing, it is important to realize the upper portion is held on by (2) slip-under tabs. Pulling from the top can break these two tabs. [Fig. 3]



(PANEL A REMOVAL)

[Fig. 4] Shows what one of the top tabs looks like.



Step 2: Body Disassembly

Panel Removal:

(PANEL A REMOVAL)

Very carefully, pull the lower portion of the fairing outward, clearing the pop-out tabs marked with arrows in [Fig. 5].



(PANEL A REMOVAL)

Once the lower portion of the fairing is pulled out, slowly and carefully lift out the top tabs [Fig. 6]

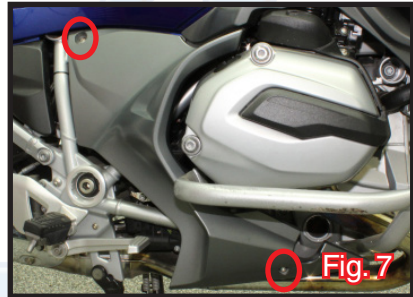
WARNING

If done incorrectly, the top tabs can easily break.



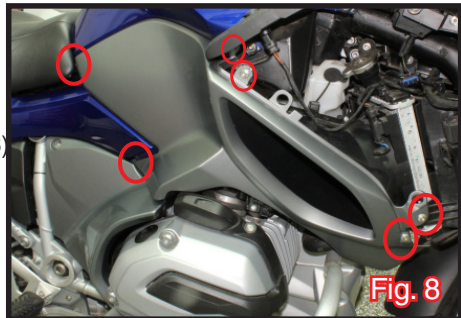
(PANEL B REMOVAL)

Remove the (2) bolts circled in (Fig.7). Carefully remove panel.



(PANEL C REMOVAL)

Remove Panel B first. Remove the (6) torx bolts in the locations circled in (Fig. 8). Carefully remove panel.



Step 3: Wiring

Mounting the Wiring Harness Relay and Wire Routing:

- Mount the wiring harness relay in the center of the motorcycle behind the fork and upper fairing using provided zip ties. There will be a small section of tubing to mount on (Fig. R1 & R2). Make sure the wires don't get in the way of normal steering operation.
- Plug light into wiring harness and secure wires with the provided zip ties so that there is no interference with steering operation.
- Be sure to leave a proper drip loop when securing light wire. See drip loop section on pg. 13.
- Remove the rider and passenger seat from bike and set aside



Step 3: Wiring

Power & Data Cable Routing:

The red and black power wires and data cable will have to be routed from the front to the back of the bike. There is a wire trough on the right side of the bike that the wires can be routed along (Fig. R3).

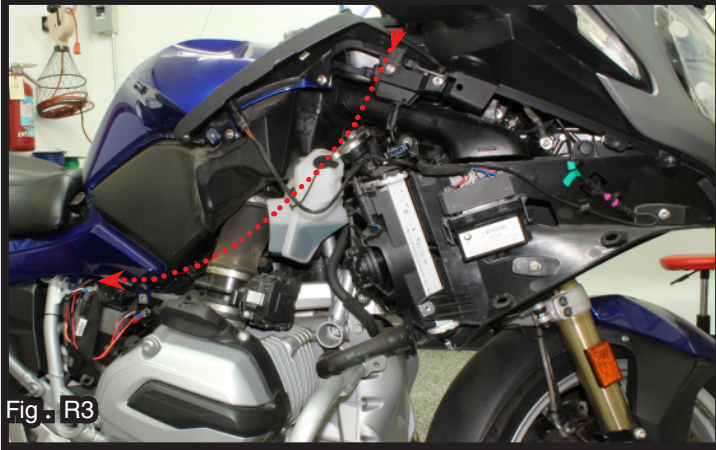


Fig. R3

The power wires and data cable will enter the bike at the point seen below in (Fig. R4).

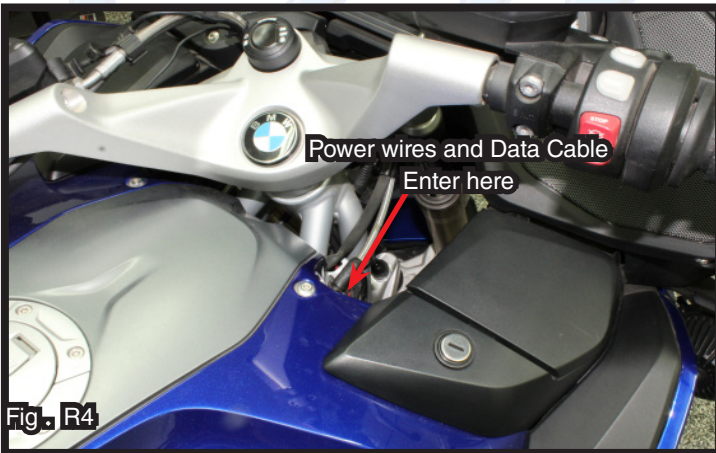
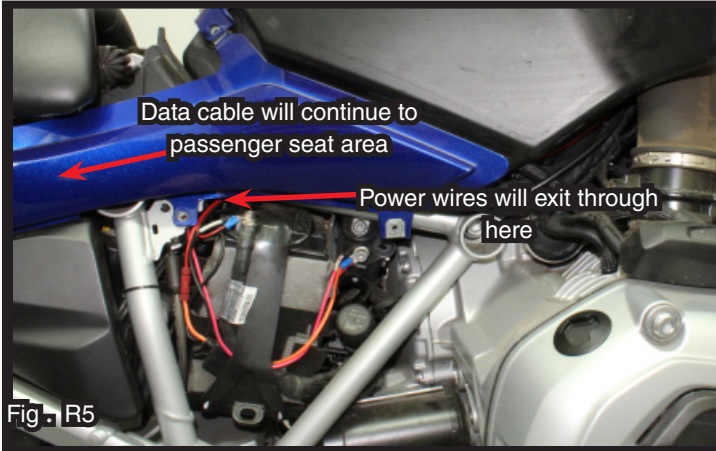


Fig. R4

Step 3: Wiring

Power & Data Cable Routing:

The red and black power wires will exit the trough above the battery area and run down to the battery (Fig. R5). The data cable will continue on to the passenger seat area to connect to the CANopener.

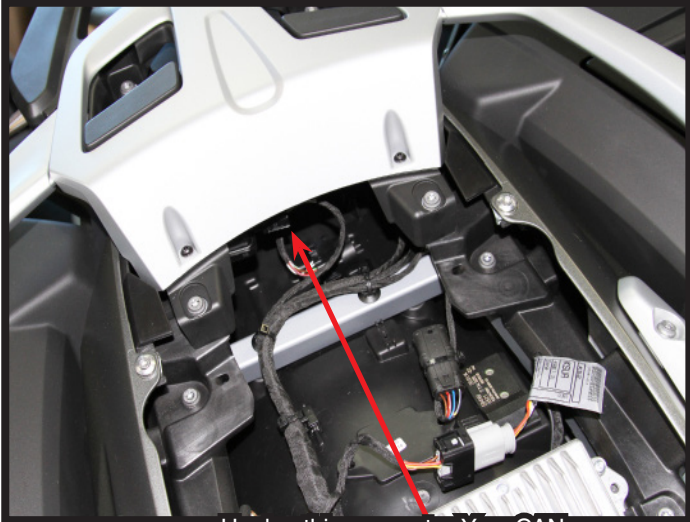


- The RED power wire with the inline fuse holder goes to the positive (+) side of the battery. The BLACK power wire with the ring terminal goes to the negative (-) side of the battery.
- Be sure to attach the RED power wire first to prevent any possible shorts.

Note: Remove the fuse while wiring the lights to prevent any accidental shorts.

Step 3: Wiring

- R1200RTW motorcycles have a **TPM (Tire Pressure Monitor)** under the passenger seat. Unplug the wiring harness from it and plug your Clearwater CANopener in its place. Then plug the wiring harness into the CANopener.
- Secure the CANopener to the plastic inner fender with provided Velcro strip. Be sure to clean any dirt or dust from area before affixing the CANopener.



Unplug this connector. Your CANopener will plug in here and the harness will plug right into the CANopener.



Step 4: Alignment

Aligning the Lights:

Adjustment is up to the user depending on his or her needs. Ask an assistant to help you with this procedure. Make sure the bike is on level ground and have your assistant sit on the bike.

The goal is to adjust the lights so that the light is level with the ground when riding. Keep in mind that passengers & luggage may alter how the bike sits. Often times, it is helpful to angle the right side light toward the right side of the road. This helps with identifying road terrain, potential critters, and road hazards.



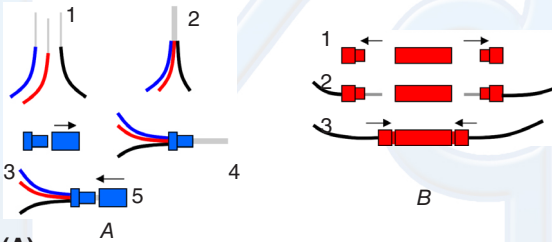
Helpful Hints:

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-twist (A):

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

Posi-lock (B):

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.

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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