



clearwater
LIGHTS™



Installation Manual

BMW R1200/R1250 R/RS (CANopener)

Darla LED Light Kit

Dimmable

Patent Pending



Made in USA

Parts Lists

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

D-72 BMW R1200-R1250 R/RS Fork Mount

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 2 ft Extension



Last Updated: 1/25/21

B41 - HARDWARE BAG

2 611 - Fender Mount Bracket



2 Spacer #14 - Bottom



2 Spacer #18



4 M6 X 14 Hex head Bolt



2 M5 X 40 SHCS



2 M5 X 45 SHCS



4 M6 Flat Washers



4 M5 Washers



4 M5 Shoulder Washers



4 Plastic Washers



D-52 BMW R1200-R1250 R/RS Fog Light Replacement

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



B40 - HARDWARE BAG

2 604 - GSA Adapter Bracket



4 M6 x 14 HHCS bolt



2 M6 x 35 SHCS bolt



8 M6 Flat Washers



2 M6 Nylock



2 M6 Star Washers



2 1 ft Extension



Parts Lists

D-76 BMW R1200-R1250 R/RS OEM Fog Light Replacement

2 Light Assembly



B713 - CAN3 BAG

1 5' Long Data Cable



1 CAN-Opener



2 2' Darla Extension



B764 - CANopener HARNESS BAG

1 Harness + Fuse + Fuse Holder



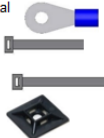
B805 - CONNECTION BAG

1 Ring Terminal

12 6" Zip Ties

2 12" Zip Ties

1 Zip Tie Pad



B40 - HARDWARE BAG

2 604 - Darla Fog Light



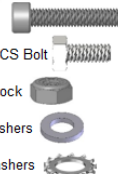
2 M6 x 35 SH

4 M6 x 14 HHCS Bolt

2 M6 Thin Nylock

8 M6 Flat Washers

2 M6 Star Washers



B124 - HARDWARE BAG

1 MAMO R/RS Bracket Left



1 MAMO R/RS Bracket Right



2 M8 x 35 SH



4 M8 Flat Washer

2 M8 Nylock



Last Updated: 3/22/21

D-51 - Crash Bar Mount

2 Light Assembly



B713 - CAN3 BAG

1 5' Long Data Cable

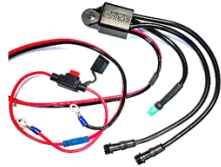


1 CAN-Opener



B764 - CANopener HARNESS BAG

1 Harness + Fuse + Fuse Holder



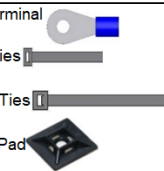
B805 - CONNECTION BAG

1 Ring Terminal

12 6" Zip Ties

2 12" Zip Ties

1 Zip Tie Pad



2 1 ft Extension



Last Updated: 1/25/21

B150 HARDWARE BAG

2 D CB Bracket

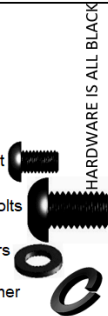


4 M6 x 14 BH Bolt

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)



Mounting The Lights

- 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.

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.

Fender Mount Overview (D72):

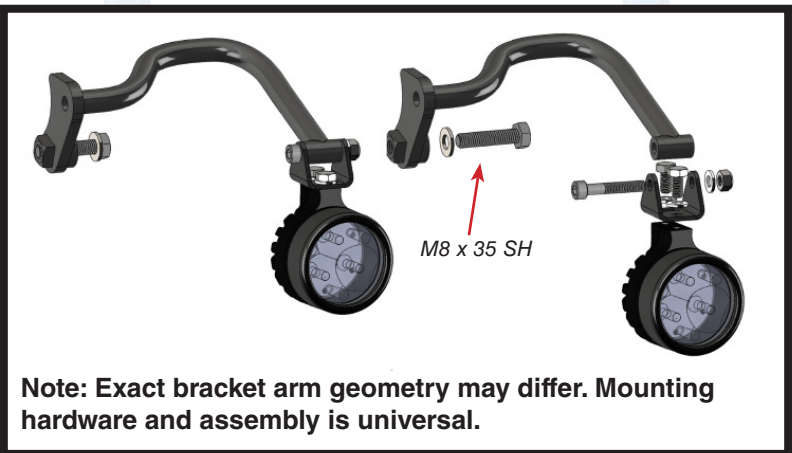
- One side at a time, remove both fender bolts. Be sure to keep fender from hanging in a fashion that damages it. Use a wire tie or piece of wire to hold the fender until you are ready to install the new bolts. Inspect the female threads on the brackets for dirt or foreign substance. If possible, use 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 bolts and M6 washers to secure Darla/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.**



Mounting The Lights

Fog Light Mount Overview (D52 or D76):

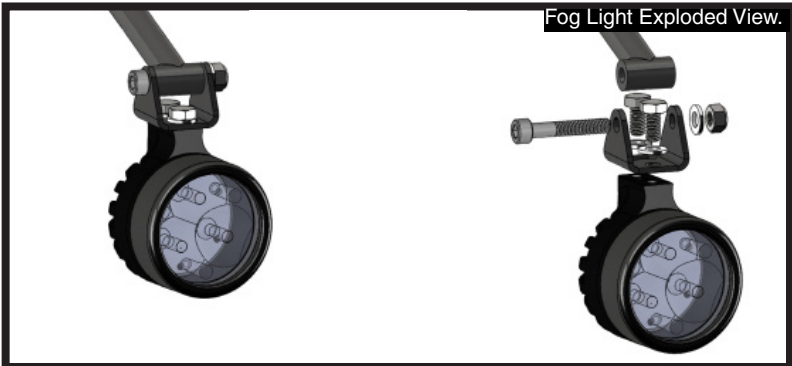
- Using the figures below as reference, mount the BMW fog light bracket to the bike frame with the included M8 x 35mm SH bolt.
- Pre-assemble the lights and mounting bracket with new bolts. Use the M6 bolts and M6 washers to secure Darlas/Glendass to the brackets, and the M6x35 bolts to attach the bracket assemblies to the fog light mounts.
- Gently screw all bolts in hand tight. Inspect the bolt length before tightening the bolts. **Assembly will resemble the exploded diagram below.**



Mounting The Lights

Fog Light Mount Overview (D52 or D76):

- One side at a time, remove bolts holding stock fog light onto fog light mount.
- Pre-assemble the lights and mounting bracket with new bolts. Use the M6 bolts and M6 washers to secure Darlas to the brackets, and the M6x35 bolts to attach the bracket assemblies to the fog light mounts.
- Gently screw all bolts in hand tight. Inspect the bolt length before tightening the bolts. **Assembly will resemble the exploded diagram below.**

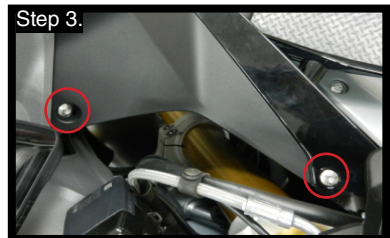
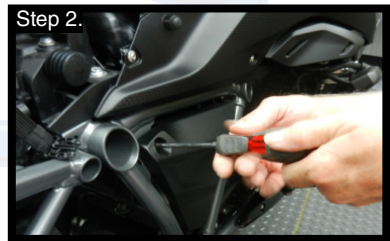


Disassembly:

Step 1. Remove seat with key. *Location marked with red circle.*

Step 2. Remove battery cover.

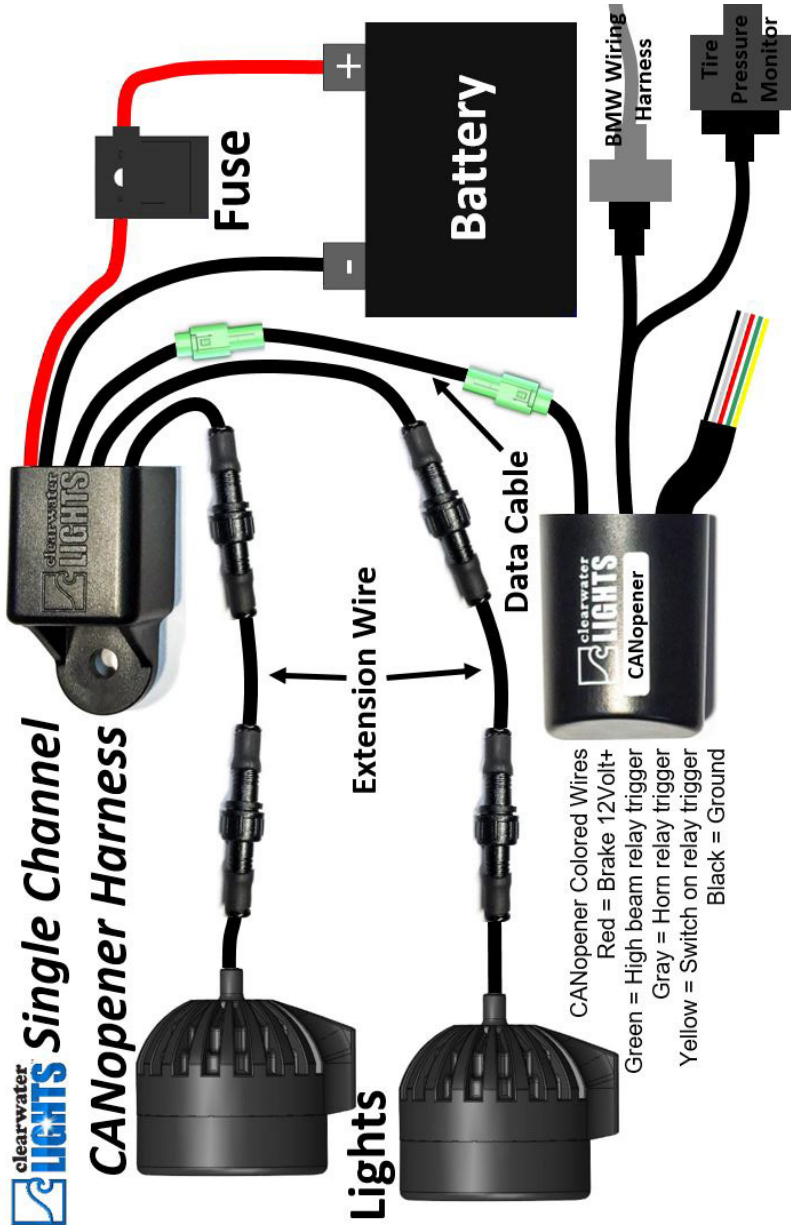
Step 3. Remove right side cowling cover. *Bolts marked with red circles.*



Wiring Diagram

Wiring:

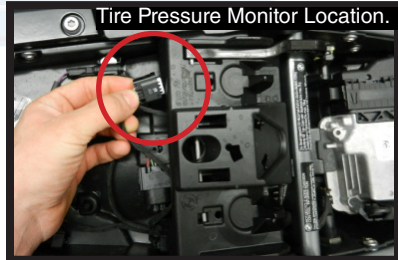
- We highly recommend you take a minute to review the wiring diagram below before starting the wiring portion of the installation. Once you feel comfortable with the information below you are ready to begin the electrical portion of the installation.



Step 4: Wiring (Overview/Wire Routing)

Wire Routing:

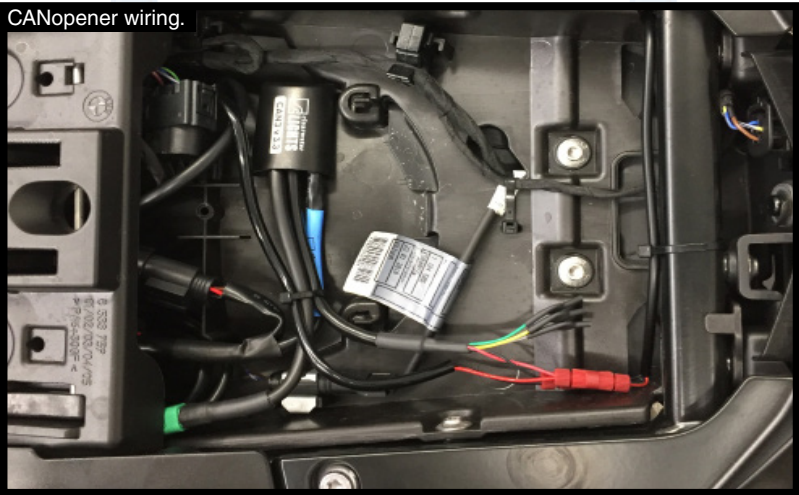
- Some R1200RS motorcycles have a TPM (*Tire Pressure Monitor*) under the passenger seat. Unplug the wiring harness from it and plug your Clearwater CANopener in its place. Then plug the wiring harness into the CANopener.
- Route the wires from the CANopener along the main wiring on the Right side of the bike to the front. Leave the wires hanging here for now.
- Secure the CANopener to the plastic inner fender with provided Velcro strip. Be sure to clean any dirt or dust from area before affixing the
- 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.
- Connect the RED wire with the fuse holder and ring terminal to the positive battery terminal. Remove fuse from the fuse block before hooking up battery to prevent accidental shorts.
- Connect the BLACK wire ring terminal to the negative battery terminal.
- Route data cable along bike to CANopener with stock wiring harness.



Step 4: Wiring (*Electrical Connections*)

- The lights use a round connector with a threaded collet that secures the connection between the lights and the harness. Light extension wires may be required to allow for a clean and safe wire routing.
- Be sure to leave a little bit of slack in the light wire as the wire comes directly out of the light. Do not kink the grommet!
- Reinstall fuse into the harness relay and start motorcycle to test lights. On low beam, you should be able to adjust the brightness with the Wonder Wheel. On high beam the lights should go to full brightness.
- 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!

CANopener wiring.



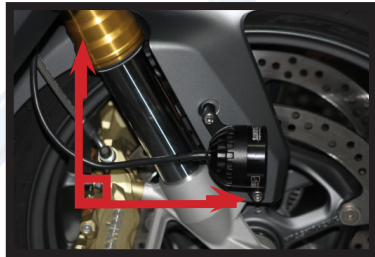
Helpful Tips: Alignment / Using a Drip Loop



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.

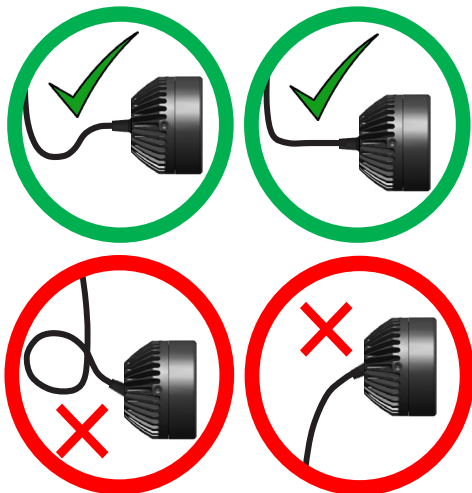
The goal is to adjust the lights so that the light is level with the ground. Passengers and luggage may alter the alignment of the light, so further adjustments may be needed. You may find that a slight downward angle (5 degrees) is helpful.



Do Not Kink The Grommet

To maintain the integrity of the water sealing 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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