

The logo features a blue square frame containing a stylized blue wave that flows from the bottom left towards the top right.

# clearwater LIGHTS™



## Installation Manual

BMW K1600GT with CANopener

**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 Parts list below with your kit to be sure all parts are handy. If something is missing, please call us at (916) 852-7029.

## D-60 - BMW K1600 GT/GTL with CANopener Pendant Fender Mount

2 Light Assembly



### B714 - CAN4 BAG

1 Data Cable



1 CAN-Opener 4



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 2' Darla Extension



### B19 - HARDWARE BAG

1 619 - Pendant Bracket Left



1 619 - Pendant Bracket Right



2 M6 x 25mm



4 M6 x 14 SHCS Bolt



6 M6 Flat Washers



4 Plastic Washers



2 Small Shoulder Washers



## Summary of Installation

1. Open body panels
2. Mount the lights and brackets.
3. Disassemble the side panel.
4. Remove fuse from Clearwater Lights wiring harness
5. Mount the wiring harness to a secure location.
6. Connect the CANopener
7. Connect the lights and CANopener to their corresponding plugs on the wiring harness.
8. Secure wires, making sure they won't get caught in the suspension or steering column.
9. Attach power lines to battery and replace the fuse.

### IMPORTANT THINGS TO REMEMBER!

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

# Parts List and Bike Preparation

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

## D-61 - BMW K1600 GT/GTL with CANopener Fork Mount, Dual Bolt

2 Light Assembly



### B714 - CAN4 BAG

1 Data Cable



1 CAN-Opener 4



### 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' Darla Extension



### B61 - HARDWARE BAG

1 631 - K1300S bracket- Right



1 631 -K1300S bracket- Left



4 M6 x 35 SHCS Bolt



4 Spacer #2



4 M6 x 14 HHCS Bolt



8 M6 Flat Washers



12 Plastic Washers



4 M6 Shoulder Washer



Last Updated: 1/25/21

## D-64 - BMW K1600 GT/GTL Fog Light with CANopener (2010+)

2 Light Assembly



### B714 - CAN4 BAG

1 Data Cable



1 CAN-Opener 4



### 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



Last Updated: 1/25/21

### B43 - HARDWARE BAG

2 674 - K1600 Fog Light Replacement Bracket



4 M6 x 16 BHCS Bolt (Pre-Installed)



4 M6 x 14 BHCS Bolt



8 M6 Flat Washers

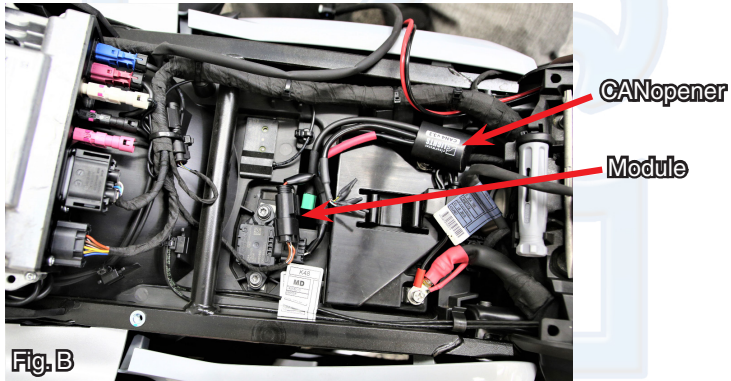
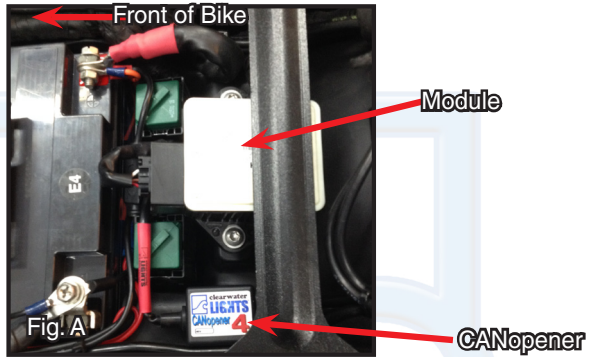


2 2' Darla Extension



# Mounting CANopener & Step 1: Disassembly

- Remove the seat from the bike and set aside.
- Locate the module under the seat, unplug the connector marked in the figure below and plug the Clearwater CANopener in it's place. Then plug the original connector into the CANopener. If your bike is a 2010-2016 model, refer to Fig. A. If your bike is a 2017+ model, refer to Fig. B.
- 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.
- **DO NOT** touch the module when mounting the CANopener



## Disassembly

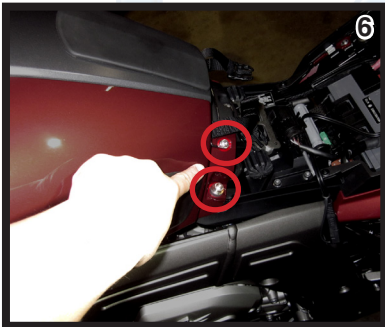
**\*Remove the bolts circled in disassembly step 1-6\***

### Gas Tank Shroud:

In order to remove the gas tank shroud plastics you must flip the plastic back as shown to get to the bolts. Follow images continued



# Step 1: Disassembly



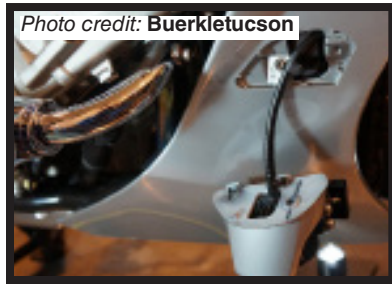
Your bike should look like this after removing the gas tank shroud plastics.

## Fog Light Mount ONLY:

- If mounting to the fog light location you must remove the panel shown to the right.

Remove this panel on both sides of the bike.

Photo credit: Buerkletucson

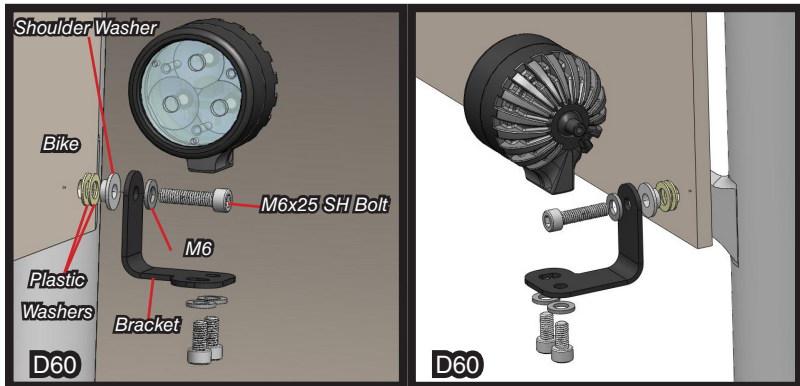


## Step 2: Mounting The Lights

### Fender Mount Overview: *(detailed diagrams below)*

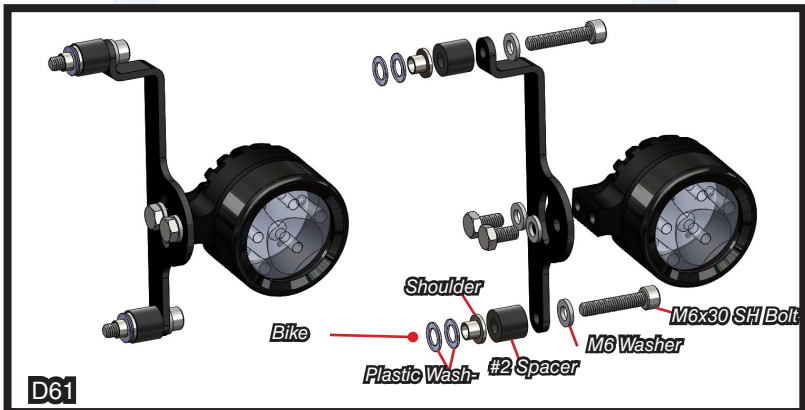
- Remove fender bolts, and install light bracket/light one side at a time

Assemble the light to the bracket and bike as seen in the figure below. Be sure to assemble the bolt, washer, bracket, shoulder washer, and (2) plastic washers in the appropriate



### D61 2010+ K1600 Fork Mount:

Assemble the light to the bracket and bike fender as seen in figure below. Be sure to assemble the bolt, washer, bracket, #2 spacer, shoulder washer, (2) plastic washers, and bike fender in the appropriate order.



## Step 2: Mounting The Lights

### **Fog Light Mount Overview:** *(detailed diagrams below)*

We make two fog light kits for the K1600, identify which you have and then then follow the appropriate diagram below. If your K1600 is a **2010+** then you will need the **D64** kit, if your K1600 is a **pre-2010 model** then you need our **D63** kit.

#### **D64 2010+ K1600 Fog Light Kit:**

- Remove stock fog lights from fog light location.
- Pre-assemble the Clearwater Lights to the brackets as shown in the diagram.
- Once you have inspected the bolt lengths, attach the bracket and lights to the mounting location.



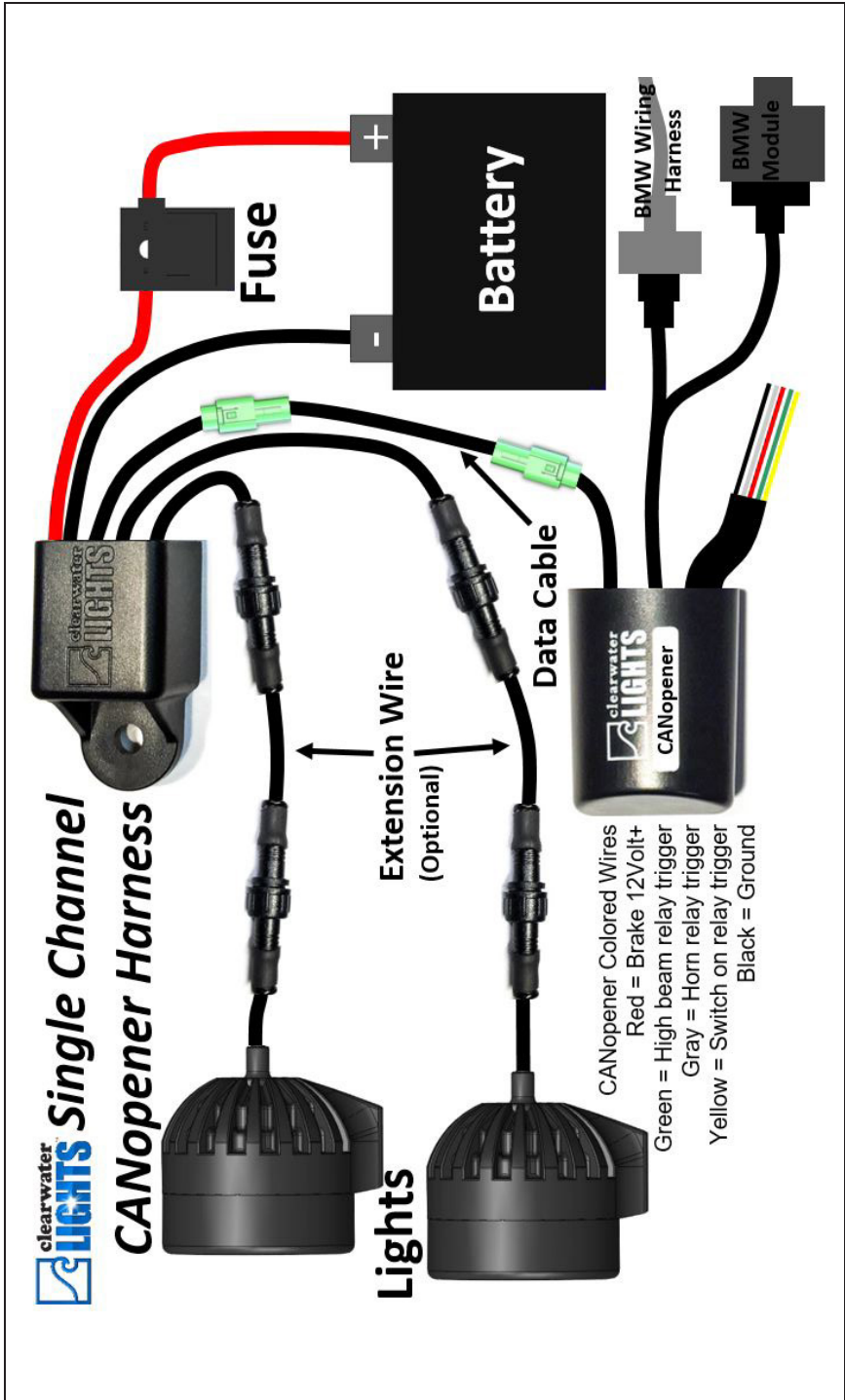
#### **D63 pre-2010 K1600 Fog Light Kit:**

- Remove stock fog lights from fog light location.
- Pre-assemble the Clearwater Lights to the brackets as shown in the diagram.
- Once you have inspected the bolt lengths, attach the bracket and lights to the mounting location.



**D64 K1600 2010+ Kit**

# Step 3: Wiring Diagram

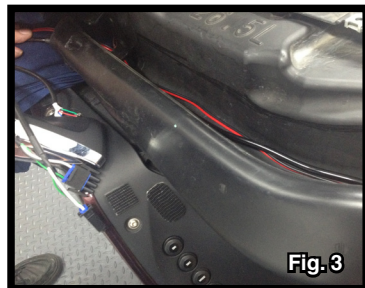
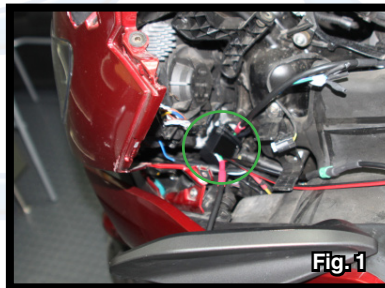




## Step 3: Wiring

### Wire Routing:

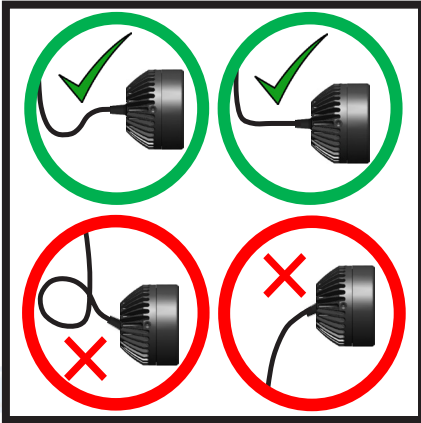
- Be sure to route wires so that they cannot become tangled or caught in either a suspension part or steering part. Check movement of both steering and suspension before riding the bike.
- It is sometimes helpful to follow existing wire routing.
- Using included Zip Ties, mount the small black box from the wiring harness to the location circled in (Fig. 1).
- Use a Posi-lock to connect RED wire from the trident adapter to the thin RED wire from the relay harness (2 wires).
- Use a Posi-twist to connect GREEN wire from the trident adapter to the two GREEN wires from the lights (3 wires).
- Use a Posi-twist to connect BLACK wire from the harness relay to the two BLACK wire from the lights (3 wires).
- Use a Posi-twist to connect RED wire from the harness relay to the two RED in Glenda, WHITE in Darla wires from lights (3 wires).
- Plug the Trident Adapter into the Data Cable
- Run the RED and BLACK power wire, and Data Cable along the air intake up to the battery. (Fig.2) and (Fig. 3)
- The BLACK power wire with the ring terminal goes to the negative ( - ) side of the battery. The RED power wire with the inline fuse holder goes to the positive ( + ) side of the battery. **Remove the fuse while wiring the lights to prevent any accidental shorts.**
- Plug the Data Cable into the CANopener.



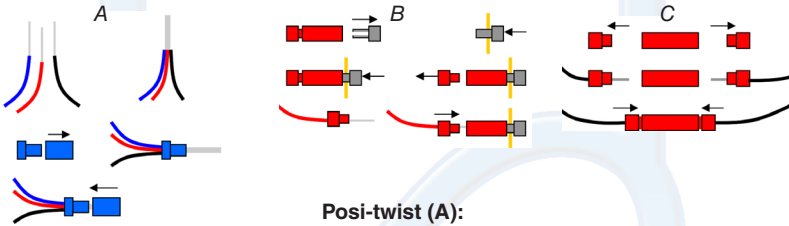
# Install Tips & Notes

## 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 Instructions.



### Posi-twist (A):

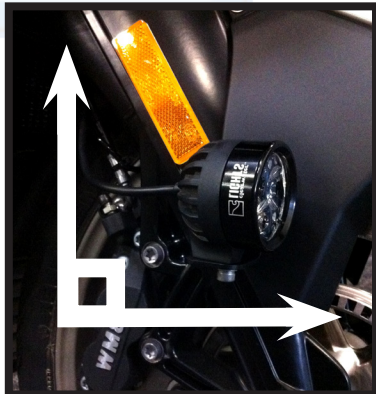
1. Strip all wires to be inserted 1/2"
2. **Twist all wires together before inserting into the Posi-twist.**
3. Completely unscrew the top from the Posi-twist.
4. Feed the twisted wires through the bottom portion of the Posi-twist.
5. Attach the top and tighten, while ensuring the wires do not slip out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

## Alignment:

- 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.



# 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.*



The Clearwater Company - 11305 Sunrise Gold Circle, Suite D  
Rancho Cordova, CA 95742  
Phone: (916) 852-7029 | Fax: (916) 852-9410 | [www.clearwaterlights.com](http://www.clearwaterlights.com)

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