



Installation Manual

Triumph Tiger

Darla LED Light Kit

Dimmable

Patent Pending



Parts List

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

- Check Parts list supplied with your kit to be sure all parts are there.

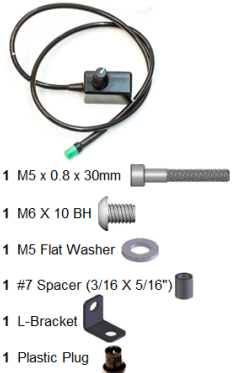
D-44 – Triumph Tiger 800XC

2 Light Assembly



B709 - POT HARDWARE BAG

1 Pot Assembly



1 M5 x 0.8 x 30mm

1 M6 X 10 BH

1 M5 Flat Washer

1 #7 Spacer (3/16 X 5/16")

1 L-Bracket

1 Plastic Plug

B817 - CONNECTION BAG

1 Ring Terminal



3 Posi Tap



12 6" Zip Ties



1 Zip Tie Pad

B761 - HARNESS BAG



2 2' Darla Extension



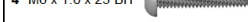
Last Updated: 1/22/21

B44 - HARDWARE BAG

2 640 - Triangle Bracket



4 M6 x 1.0 x 25 BH



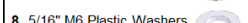
4 M6 x 14 SHCS



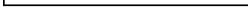
8 M6 Flat Washers



4 Thin M6 Shoulder Washer



8 5/16" M6 Plastic Washers



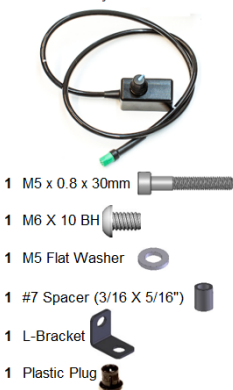
D-2 Universal

2 Light Assembly



B709 - POT HARDWARE BAG

1 Pot Assembly



1 M5 x 0.8 x 30mm

1 M6 X 10 BH

1 M5 Flat Washer

1 #7 Spacer (3/16 X 5/16")

1 L-Bracket

1 Plastic Plug

B817 - CONNECTION BAG

1 Ring Terminal



3 Posi Tap



12 6" Zip Ties



1 Zip Tie Pad

B761 - HARNESS BAG

1 Harness



2 2' Darla Extension



B2 - HARDWARE BAG

2 602 - Bracket



2 Spacer #5



2 M6 x 20mm



2 M6 x 30mm



2 M6 x 45mm



4 M6 X 14 HH



6 M6 Flat Washers



4 5/16" ID Plastic Washers



2 Thin M6 Shoulder Washers



Last Updated: 1/20/21

Parts List & Bike Prep

D-25 - Crash Bar Clamp 25mm, BLACK

2 Light Assembly



B709 - POT HARDWARE BAG

1 Pot Assembly



- 1 M5 x 0.8 x 30mm
- 1 M6 X 10 BH
- 1 M5 Flat Washer
- 1 #7 Spacer (3/16 X 5/16")
- 1 L-Bracket
- 1 Plastic Plug

B817 - CONNECTION BAG

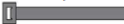
1 Ring Terminal



3 Posi Tap



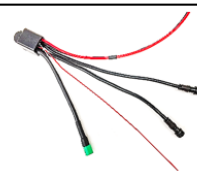
12 6" Zip Ties



1 Zip Tie Pad



B761 - HARNESS BAG



2 2' Darla Extension



B150 HARDWARE BAG

2 D CB Bracket



4 M6 x 14 BHCS Bolt



2 M10 x 16 BH



4 M6 Flat Washers



2 M10 Lock Washer



HARDWARE IS ALL BLACK

B25 - HARDWARE BAG

2 Crash Bar Clamp - 25mm



4 M5x14 (Pre-installed)



Once you have confirmed the kit you received is complete and correct, be sure park the motorcycle on hard pavement or concrete to insure the bike will be stable during the installation.

If you can use a center stand or 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.

Installation Tips:

There are two main parts to the installation of your new Clearwater Lights. The mechanical portion, and the electrical portion. With this manual, we will go over the basics of both which should allow you to get your lights up and running. If you purchased a bracket made specifically for your bike, refer to our manuals online for that specific installation at:

www.clearwaterlights.com

Note: Motorcycle needs to be turned on before the lights will function.

Mounting the Lights

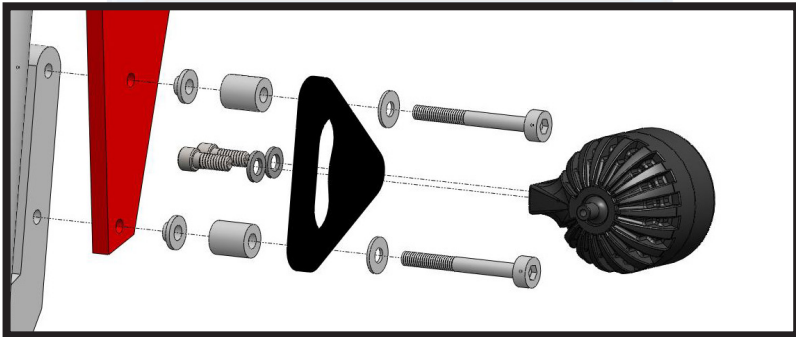
Please follow the instructions below for the mounting kit you received.

D-44 (Triumph Tiger 800XC)

One side at a time, remove both fender bolts. Be careful not to damage the fender by applying too much hanging force on it. If possible, use compressed air (wear protective glasses) or small bottle brush to clean the threads of the fender.

Pre-assemble the lights, mounting bracket, shoulder washers (if needed) and spacers with new bolts. Add 1 or 2 plastic washers to shoulder washer to make up difference in thickness of front fender if needed.

Gently screw bolts in hand tight. Inspect the bolt length and spacer alignment before tightening the bolts. Follow exploded diagram below.



D-2 Universal Fender Mount

Remove the top fender bolt and secure fender so that it does not slide into a position that will damage it.

Preassemble the lights onto the bracket, spacer and shoulder washer as shown below. Use the plastic washers if the shoulder washers are too long.

Hand tighten all the bolts until all is in place, then fully tighten.



Mounting the Lights & Dimmer

D-25 Crash Bar Mount

The crash bar mount allows for many various mounting locations along the engine guard/crash bars. Crash bar clamps come pre-assembled with the M3x10 SH screws in place. Simply un screw the M3 screws and place the clamp on a straight section of the crash bars. It may help to have the Darla light assembled to the secondary bracket first. Screw in the M3 screws just finger tight first, to allow for small adjustments before tightening down. Refer to the exploded diagram below for assembly.



Mounting the Dimmer

The Clearwater Lights dimmer can be mounted using one of the fasteners on the left-hand handlebar controls cluster. Your kit comes with all of the hardware needed to properly mount the dimmer as shown in the photo here. Zip tie the wire from the dimmer down along the handlebars. It may be helpful to follow existing OEM wires/cables to avoid pinch points and suspension.



Wiring

Mounting the Harness:

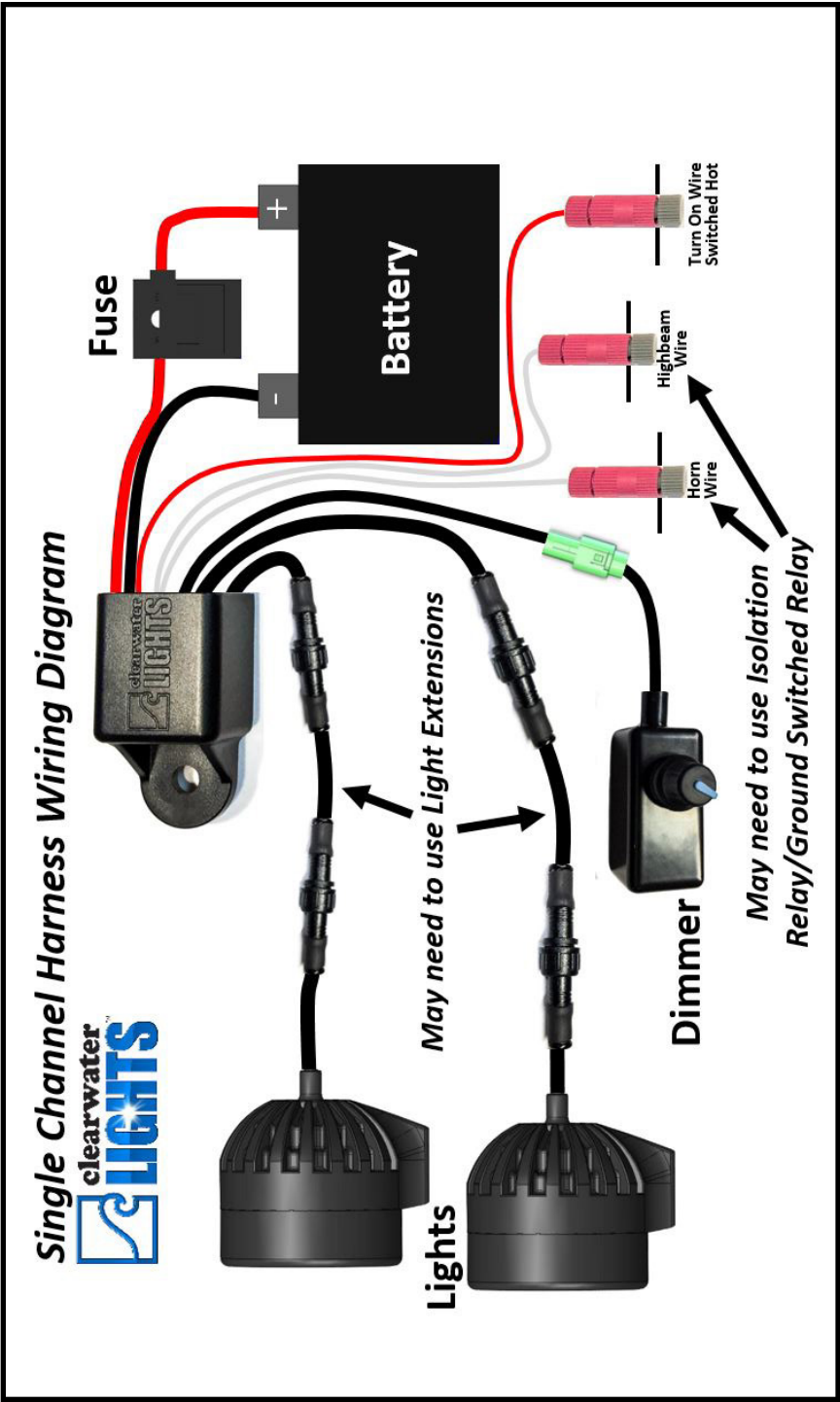
- The harness should be mounted in a secure location close to the front of the bike. Use the provided zip tie pad, zip ties or a fastener of your choice to mount the harness. Choose a location away from direct heat and out of the way of pinch points and steering/suspension assemblies.
- Route the THICK RED/BLACK power wires toward the battery.
- Be sure to route all wires so that they cannot become tangled or caught in either a suspension or steering part. Use the provided zip ties to secure them in place. Again, check the movement of steering and suspension before riding.
- It may be helpful to follow the existing factory wire routing.

Wiring + Connections:

- Before connecting any wires to your bike, first disconnect the negative terminal from the battery, then the positive.
- Please use the Wiring Diagram provided on Page 7 as a reference.
- **Dimmer:** Connect the dimmer to the harness (GREEN connectors). If the wires are too short, the GREEN extension cable may be required.
- **Switched Hot Wire:** The THIN RED wire from the harness needs to be connected to a 12V switched hot source on the bike using one of the Posi-Taps. This will allow the Clearwater Lights to turn on/off with the key or when the bike starts. The lights are NOT powered from this trigger wire. The Clearwater Lights are powered directly from the battery.
- **High Beam Feature:** Use one of the provided Posi-Taps to connect one of the THIN WHITE wires from the harness to the high beam headlight hot lead (+) on the bike. This feature sends a signal to the harness to turn the Clearwater Lights to 100% when the high beam is illuminated.
- **Horn Feature:** Use one of the provided Posi-Taps to connect one of the THIN WHITE wires from the harness to the horn hot lead (+) on the bike. This feature sends a signal to the harness to turn the Clearwater Lights to 100% when the horn is pressed.
- *Note: If you have an H4 headlight bulb or a ground switched horn, you may need a diode pack or isolation relay respectively, otherwise the lights will not function as intended.*
- **Power Wires:** Connect the fuse/fuse-holder to the red wire from the wiring harness to the positive terminal of the battery, then black wire from the harness to the negative terminal of the battery.
- **Light Wires:** Connect the lights to the harness. Light extension wires may be required depending upon the distance of the lights to the harness.
- Again, make sure all wires are neatly routed away from direct heat, steering/suspension components. Use zip ties to secure wires in place.

TEST: With the bike running, the lights should be dimmable via Clearwater Lights Dimmer. Test the high beam and horn features (if enabled) and the lights should go to 100%. If all checks, congratulations, you are finished!

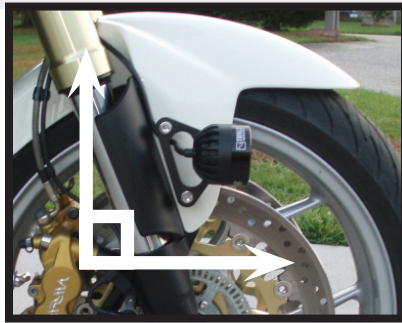
Wiring Diagram



Alignment + Helpful Tips

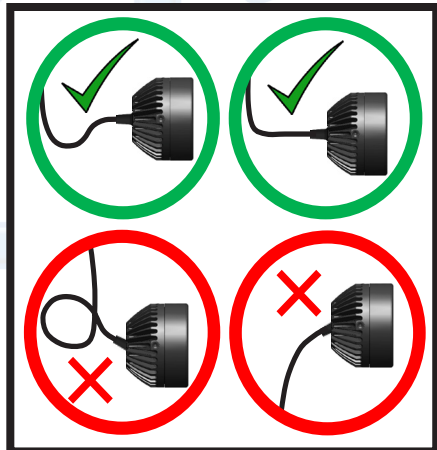
Aligning the Lights:

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.









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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