



**clearwater**  
**LIGHTS™**



# Installation Manual

## KTM 790/890 Adventure

**Darla LED Light Kit**

Dimmable

*Patent Pending*



Made in USA


# 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 handy. If something is missing, please call us at (916) 852-7029.

## KTM 790 ADV Parts List (D67)


**B150 HARDWARE BAG**  
2 D CB Bracket



4 M6 x 14 SH Bolt  
2 M10 x 16 BH Bolts  
4 M6 Flat Washers  
2 M10 Lock Washer

HARDWARE IS ALL BLACK

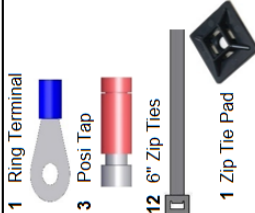
**B67 - BRACKET BAG**  
2 Crash Bar Clamp - 21-22mm



4 M5x14 (Pre-installed)

**B817 - CONNECTION BAG**

1 Ring Terminal  
3 Posi Tap  
12 6" Zip Ties  
1 Zip Tie Pad

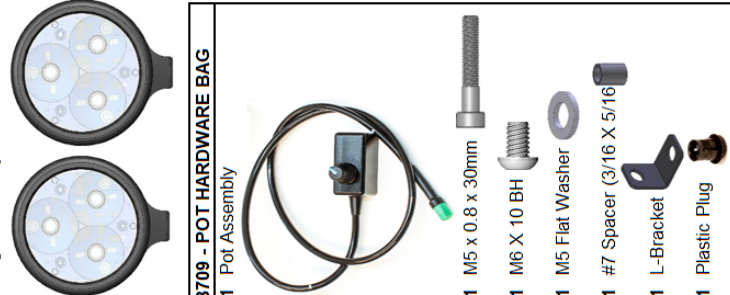


**B761 - HARNESS BAG**



**B709 - POT HARDWARE BAG**  
1 Pot Assembly

2 Light 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

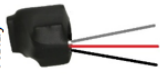
Clearwater lights include a simple and high quality means of connecting to the motorcycle's electrical system. "Posi" devices made by Posi-Products are used to securely and safely make electrical connections on the bike. You can view instructions on the proper installation of the Posi-Products on the 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.

Last Updated: 1/22/21


# Parts List

## KTM 790 ADV Parts List (D129)


**B705 - HORN RELAY BAG**



1 Relay



1 Posi lock




1 Posi-Tap


*Note: Horn Relay only with  
NEW single relay  
harness... because old  
harness does not have*

Last Updated: 1/22/21


**B74b - HARDWARE BAG**




2 670 - Triangle Bracket




4 Spacer #10




4 M5 x 1.0 x 55 SH




4 M6 x 14 HH




4 M6 Flat Washers



4 M5 Flat Washer




4 M5 shoulder washer




4 M5 Plastic Washers


**B817 - CONNECTION BAG**




1 Ring Terminal



3 Posi Tap



# 6" Zip Ties



1 Zip Tie Pad

**B761 - HARNESS BAG**



**2 2' Darta Extension**



**2 Light Assembly**



**B771 - POT HARDWARE BAG**



1 Pot Assembly



1 M6 x 35mm



1 M6 X 10 Button Head



1 M6 Flat Washer



1 #20 Spacer



1 L-Bracket



1 Plastic Plug

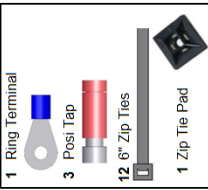
# Parts List

## D-107 KTM 790/890 Adventure R UnderBeak Mount

2 Light Assembly



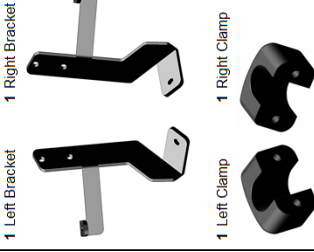
**B817 - CONNECTION BAG**



**10MM PENDANT MOUNT BAG**  
 1 10mm Pendant Bracket Left

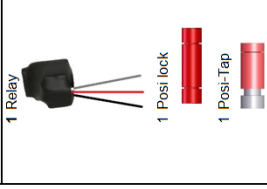


**B307 - BRACKET HARDWARE BAG**



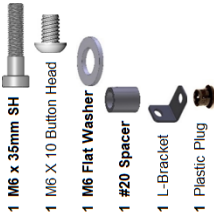
If horn option is chosen:

**B705 - HORN RELAY BAG**

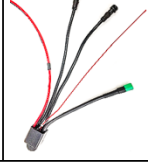


**B771 - POT HARDWARE BAG**

1 Pot Assembly



**B761 - HARNESS BAG**



Last Updated: 1/22/21



# Bike Preparation

## **Bike Preparation:**

- 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.

**DO NOT CONNECT BATTERY UNTIL INSTALLATION IS COMPLETE**

## **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.*

If you have any questions, please email us at [sales@clearwaterlights.com](mailto:sales@clearwaterlights.com) and our Master Tech will help you.

# Mounting The Lights

## Mounting The Lights: (KTM 790 Fender Mount)

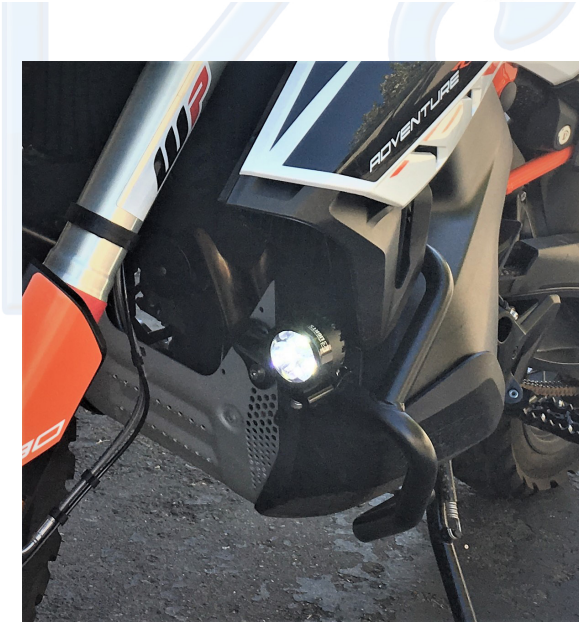
Mounting Darlas to the front fender is a simple process of removing the OEM fender hardware and mounting the triangle bracket to the fender with the supplied hardware. To do this successfully, we recommend doing one side at a time to limit the strain of the fender from hanging unsupported. Please follow the exploded diagram below for assembly.



# Mounting the Lights

## Mounting The Lights: (KTM 790 Crash Bar Mount)

Mounting Darlas to the crash bars uses a bar mount and an angled bracket to allow for alignment. Be sure to mount the bracket on a straight part of the crash bar. Please follow the exploded diagram below for assembly.





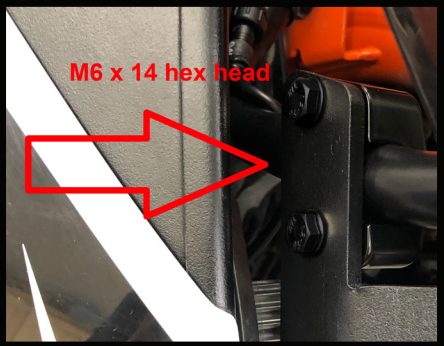
# Mounting the Lights

## Mounting The Lights: (KTM 790 ADV Beak Mount Location)

- Find the enclosed parts that allow direct mounting to KTM 790 ADV. Our kit includes two beak mounts (left & right), two small U-shaped clamps and associated M5 and M6 hardware. These allow mounting to the factory subframe located under the front beak for a sleek, tucked in look.
- Mount brackets as shown below.
- Double check alignment before tightening bolts.



Mounting location behind forks



Mate clamp to bracket with M6 hardware





# Mounting the Dimmer + Disassembly

## Mounting The Volume Control Knob

- Mount the “volume control” to handlebar by using supplied spacer, L-bracket, bolt and washer.
- Route wire from the dimmer box down the handlebars to the area in front of the tank.

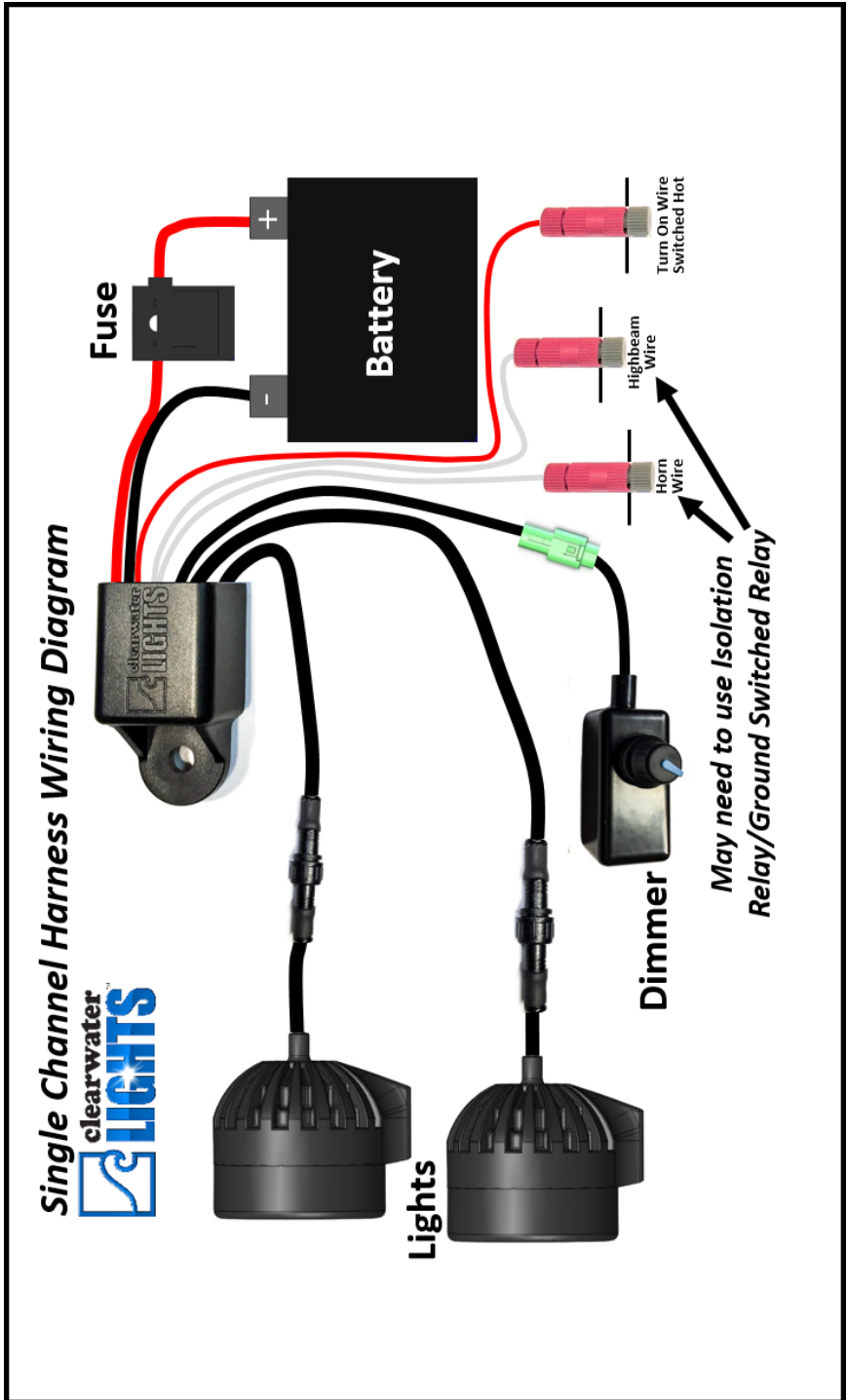


Disassembly of the headlight bucket is required to reach the headlight connector. The headlight connector and its signal is used to trigger the highbeam function of the Clearwater Lights harness. Six screws hold the headlight assembly in place.



Once all six screws have been removed, carefully lift up and away from the frame of the bike, and the headlight assembly will be able to lay down. Be sure to set a cloth down so as to not scratch the headlight assembly.

# Wiring Diagram



# Harness + Highbeam + Switched Hot

## Mount the Harness:

Placement of the harness should be behind the headlight assembly clear of pinchpoints and forks. Fasten in place with a zip ties. Following KTM factory wires is a good way to route Clearwater Lights wires. Ensure the dimmer's green connector is plugged into the harness



## Highbeam/Switched Hot:

To allow your Clearwater Lights to function as designed, utilize the KTM highbeam signal to trip the Clearwater Lights relay as shown below. Attach a Posi-Tap to the BLUE wire at the headlight connector, the WHITE wire from the Clearwater Lights harness will attach to this one for the Highbeam function. Attach a Posi-Tap to the RED/GREEN wire at the headlight connector, the RED wire from the Clearwater Lights harness will attach to this one for the Switched Hot.

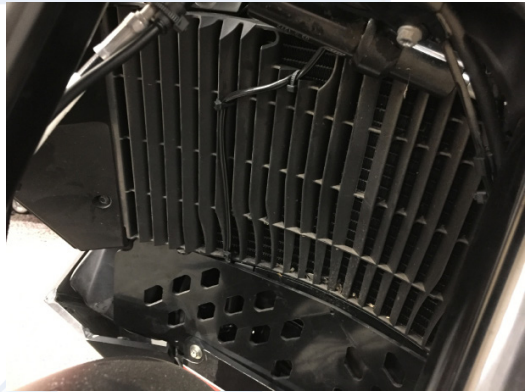


## Horn Feature

To use the horn feature of the Clearwater Lights harness requires the installation of the included ground switch relay. The **WHITE** wire from the relay should **Posi-Tap** to the **WHITE** wire of the Clearwater Lights harness. The **RED** wire of the relay should go to the **Horn Hot** wire. The **BLACK** wire of the relay should go to the ground of the horn.

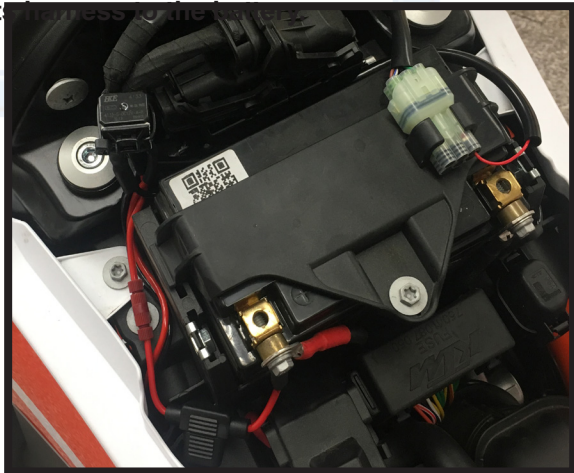


Zip tie the horn wire to the radiator grill so the slack does not interfere with the suspension. Follow the path shown in the photo here.



Route the Clearwater Lights power wires through to the battery bay is. Ensure the fuse is connected to the positive (red) wire of the Clearwater Lights harness and connect the power wires from the Clearwater Lights

Turn your bike on and make sure the Clearwater Lights function as expected (turn on with bike, dimmer, highbeam and horn). You are now ready to ride!



## Installation 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.

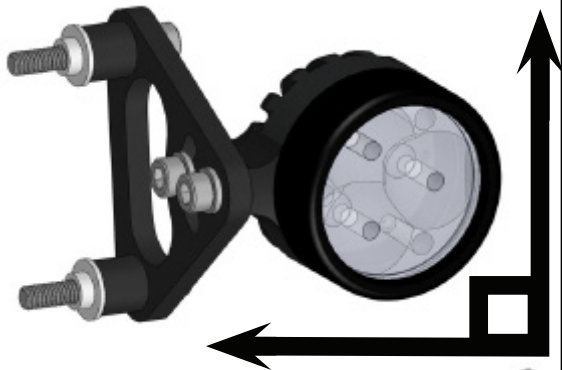


### Aligning the Lights:

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. Press a level against the face of the light, and adjust its angle.

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:





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.*



**clearwater**  
**LIGHTS**<sup>TM</sup>

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)

**Revised 4/15/21**