



clearwater
LIGHTS™



Installation Manual

Honda Africa Twin

Darla LED Light Kit

Dimmable

Patent Pending



Made in USA

Summary of Installation

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.
- We suggest keeping your lights on all the time, we do not supply an “on-off” switch. It is important to be sure that the wire you tap into is a switched hot. Otherwise, you will end up with a dead battery. Nobody likes that.

Mounting The Lights (Part 1):

- Remove front fender bolts.
- Attach light brackets and lights.
- Secure light wires.

Disassembly (Part 2):

- Remove battery cover. Disconnect battery terminals.
- Remove windshield.
- Remove side fairings.
- Remove front headlight body cover.
- Loosen headlight assembly.


Wiring (Part 3):


- Mount volume control knob.
- Mount relay box.
- Attach auxiliary port connector to auxiliary port on bike.
- Thread relay power through bike under gas tank.
- Connect relay to battery (with fuse removed).
- Connect wires from lights, relay harness, auxiliary port connector, and volume control knob.


****NOTE****


This manual demonstrates fairing removal procedures for the left side of the bike. Similar procedures can be used on the right side.


Fender Mount Part List


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

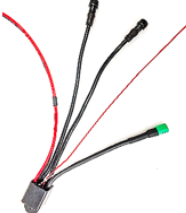
1 Ring Terminal 

3 Posi Tap 


12 6" Zip Ties 


1 Zip Tie Pad 


B761 - HARNESS BAG





2 2' Darta Extension 


B80 - HARDWARE BAG
2 681 - Africa Twin Bracket 

4 M6 x 20 BH 

4 M6 x 14 HH 

8 M6 Flat Washers 

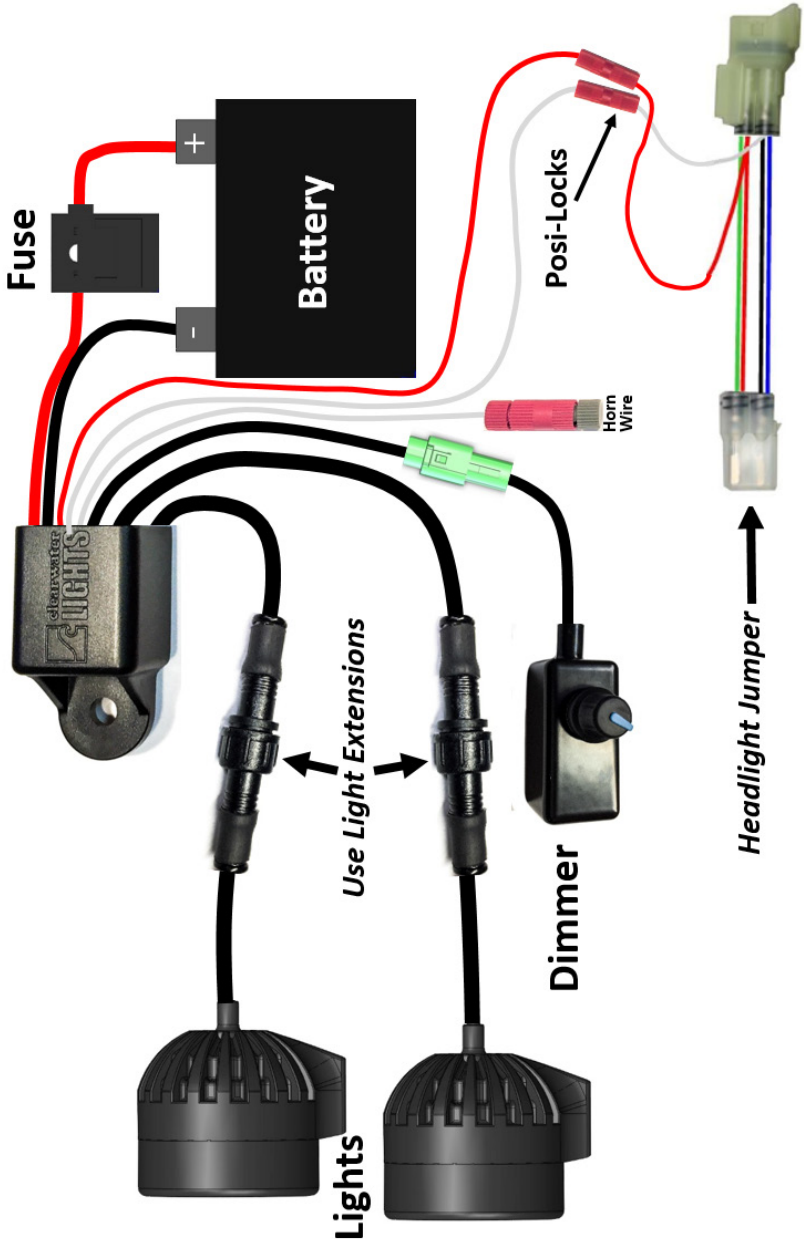
B726 - AT CONNECTION BAG
1 Auxiliary port connector 

2 Posi-Lock 

Note: This kit is for Africa Twin models from 2016 to 2019. Africa Twins 2020 or newer must use a Universal Kit.

Wiring Diagram

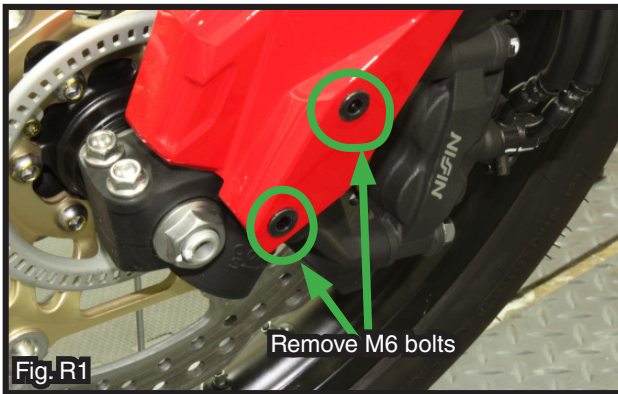
Note: This kit is for Africa Twin models from 2016 to 2019. Africa Twins 2020 or newer must use a Uni-versal Kit.



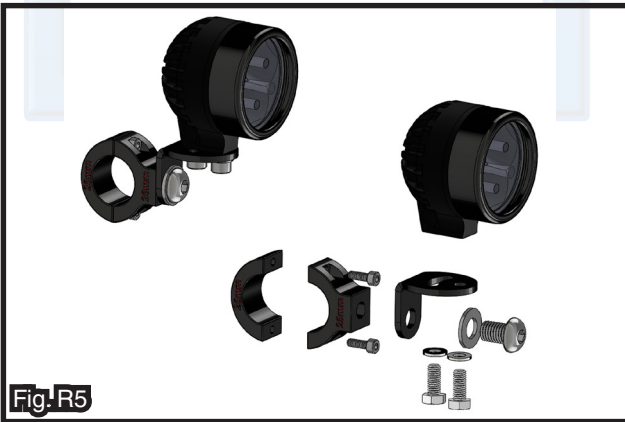
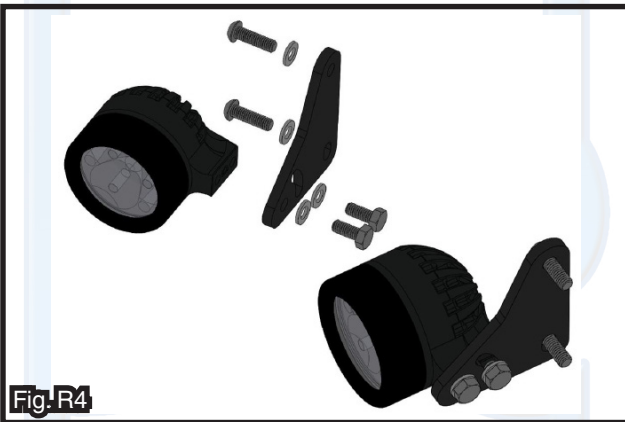
Mounting The Lights

Fender Mount Overview:

- Before installing light brackets to the lower fender, remove the (2) M6 bolts holding the front fender on one side (Fig. R1). Attach the light bracket with included M6 x 20mm bolts (Fig. R2). With bracket securely attached to one side, repeat the process for the other side of the fender.
- Attach the Glenda/Darla lights to the two holes on the bracket with included M6 x 14 bolts and M6 washers (Fig. R3). Do not fully tighten to allow adjustment of the lights later.
- Route wires from lights following brake lines, making sure to leave a drip loop (Fig. R3). Run wires to the upper fork, and leave ends loose for now. An exploded diagram showing how the lights and bolts will attach to the bracket is show in (Fig. R4).
- The lights can also attach to crash bars. (Fig. R5) shows an exploded diagram of a crash bar clamp assembly.



Mounting The Lights / Fender Mount



Disassembly

Note:

To access the battery and auxiliary port, a few panels will have to be removed. Take special care when removing fairings and coverings as many of them have tabs that can break with too much force. Also make sure to keep track of any bolts that are removed.

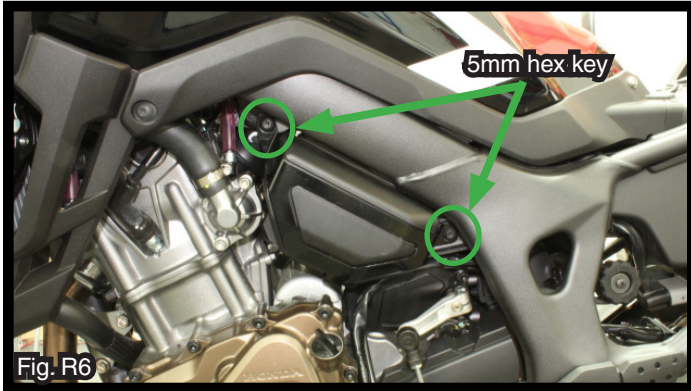


Fig. R6

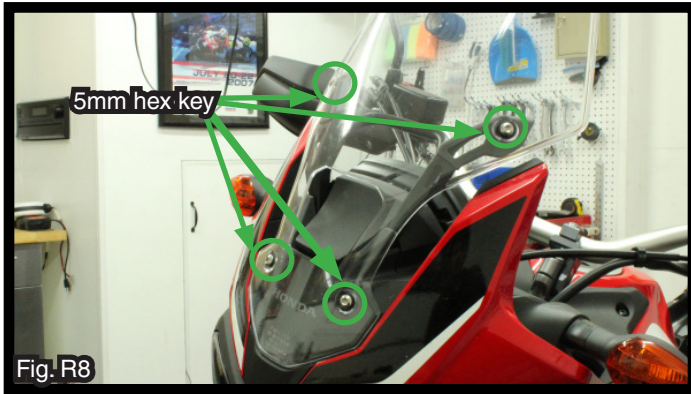
To access the battery, remove the two bolts holding down the tool kit container with a 5mm allen wrench (Fig. R6).



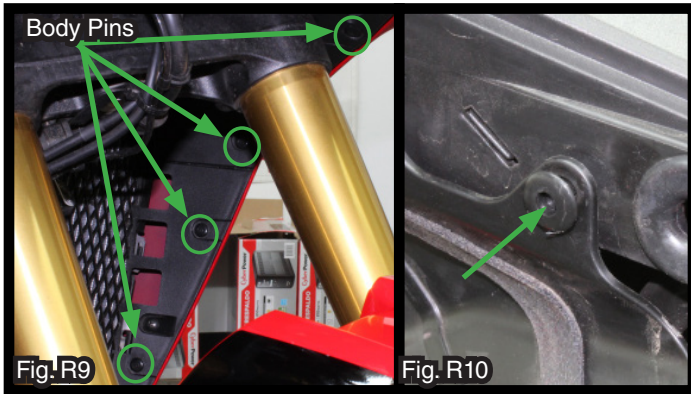
Fig. R7

Lift the battery cover to expose battery terminals. Disconnect negative terminal first, then positive terminal. (Fig. R7)

Disassembly



Unscrew the (4) windshield bolts with a 5mm hex key, and carefully remove windshield from the bike (Fig. R8).

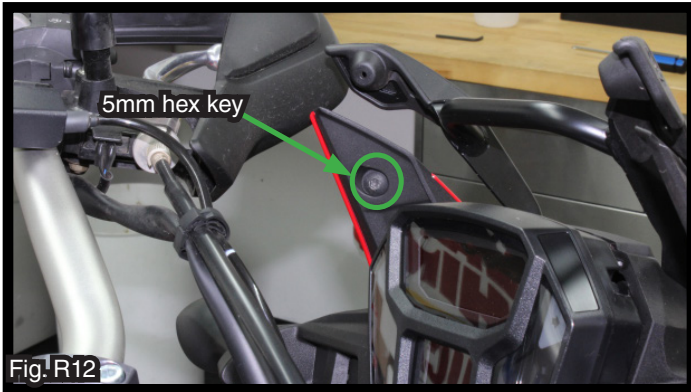


To remove the left side fairing, pull out the (4) body pins on the bottom inside lip of the bike (Fig. R9). NOTE: To remove a body pin, push in center button of pin then pull out entire pin body (Fig.



Remove two side body bolts (Fig. R11) with a 5mm hex key.

Disassembly



Remove body bolt above the dash with a 5mm hex key (Fig. R12).



Fig. R13

Carefully pull out back end of fairing. Make sure to disconnect from rubber grommets (Fig. R13).



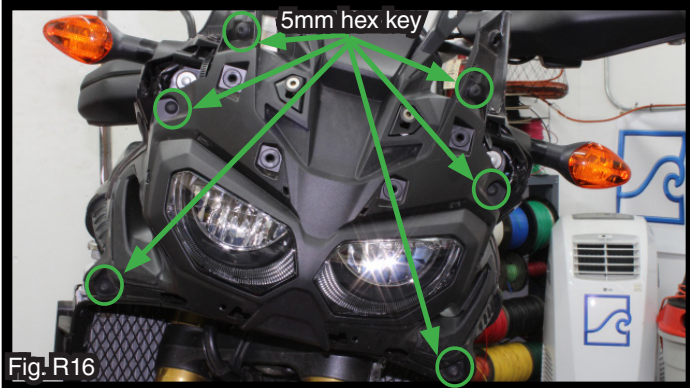
Fig. R14

The tab on the top portion of the fairing must be carefully pushed down on, then pulled outward to disconnect from the body. (Fig. R14).

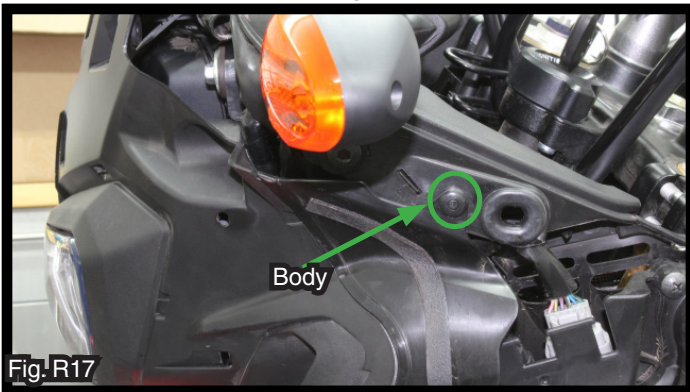
Disassembly



With the back end of the fairing disconnected, the front of the fairing can be pulled forward and removed (Fig. R15). Once the left side fairing is removed, the same process can be used to remove

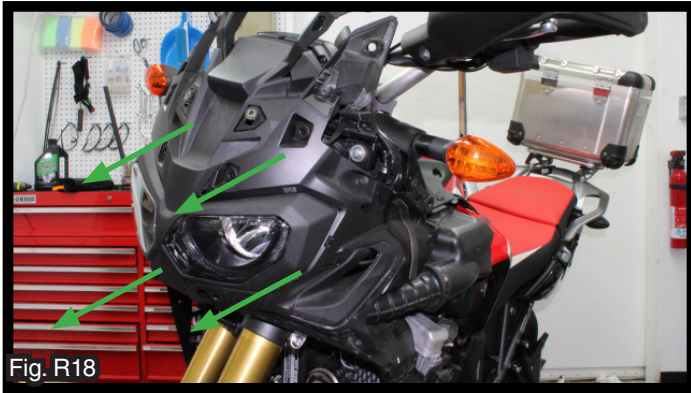


With the under body exposed, a 5mm hex key can be used to remove the six bolts shown in (Fig.R16).

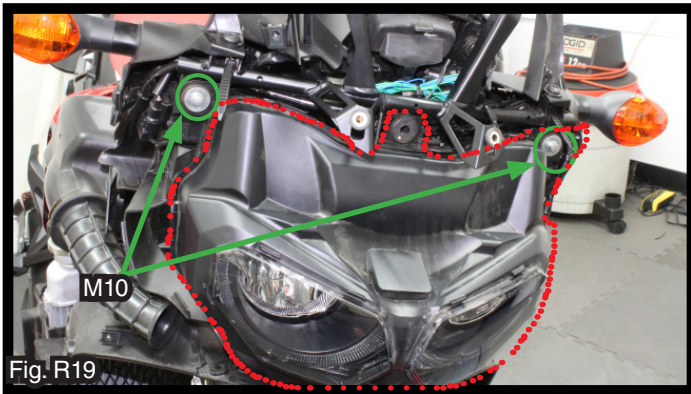


Remove the two side body pins that are also holding down the under-body (Fig. R17).

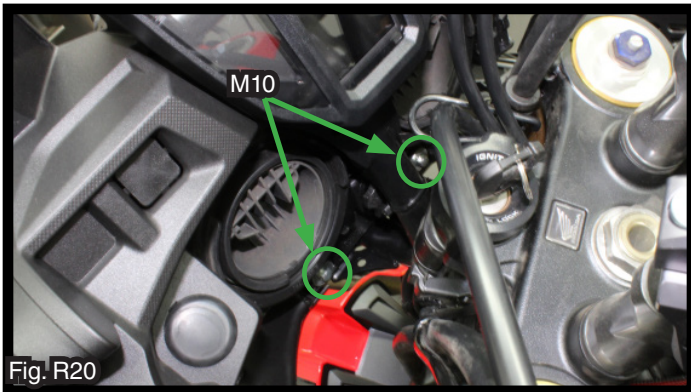
Disassembly



With the (6) front body bolts, and 2 side body pins removed, the headlight assembly cover can be carefully pulled off (Fig. R18).



While the headlight assembly seen in (Fig. R19) doesn't have to be completely removed, the bolts holding it down do. Remove the two M10 bolts circled in (Fig. R19)



Loosen the two M10 bolts on the back of the headlight assembly. (Fig. R20).

Wiring

NOTE: Before proceeding with wiring the lights, take a moment to review the wiring diagram. Keep the diagram handy throughout the installation.

Mounting The Volume Control Knob: (Bar Mount)



Fig. R21

- Mount the Volume Control Knob to the handlebar using the provided “Pot hardware” (refer to the part list on pg. 1). Refer to (Fig. R21) for proper assembly position.
- Route the Volume Control Knob wire along existing wires, using the OEM wire clamps or Zip Ties to secure it.

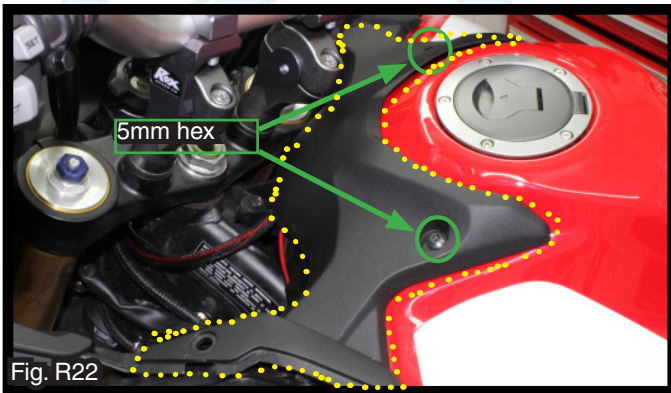


Fig. R22

Gas tank cover is to be removed for wire routing (Fig. R22). Remove the bolts shown with a 5mm hex key.

Wiring



- Tuck the harness in a good location as to not interfere with the front fairing in the area as seen in Fig. R23. Use a zip tie to secure.



Removal of the rubber boot and data cable from Fig. R24 above

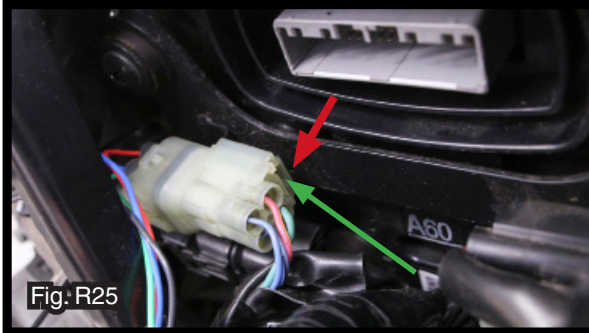


Fig. R25: To remove the auxiliary plug, locate the tab as pointed out by the green arrow and place a small blade screwdriver in that slot. Apply a force in the direction of the red arrow. This will free the plug to be disconnected.

Wiring



Fig. R26

Remove the dummy cap from the auxiliary plug (Fig. R26).

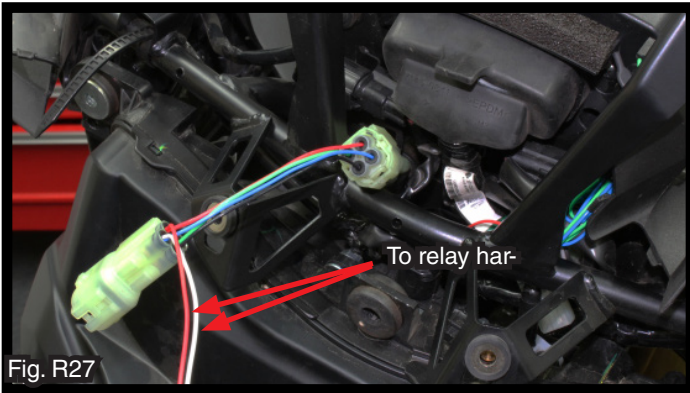


Fig. R27

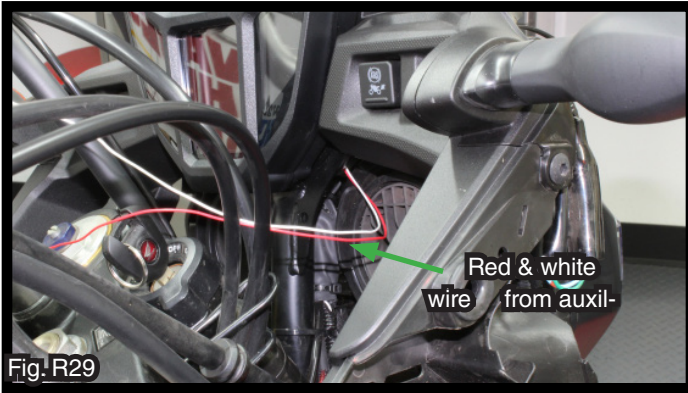
Plug the male end of the auxiliary port connector (included with kit) into the the bike's exposed auxiliary plug. The red and white wire from the the port connector will connect to the relay harness



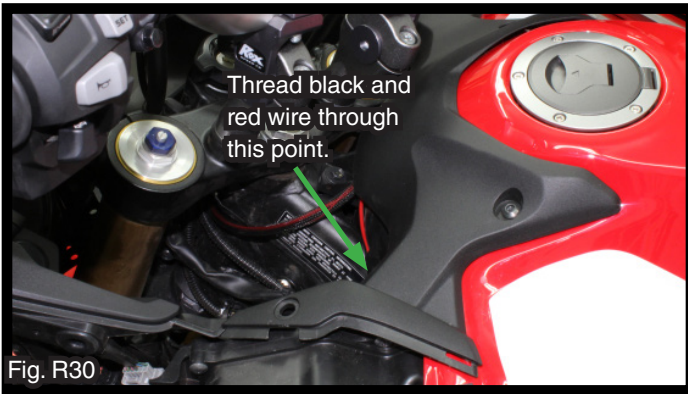
Fig. R28

Reattach the bike's auxiliary plug to it's original location. Thread the white and red wire over the top of the headlight assembly, and tuck away the other side of the auxiliary plug connector (Fig. 28).

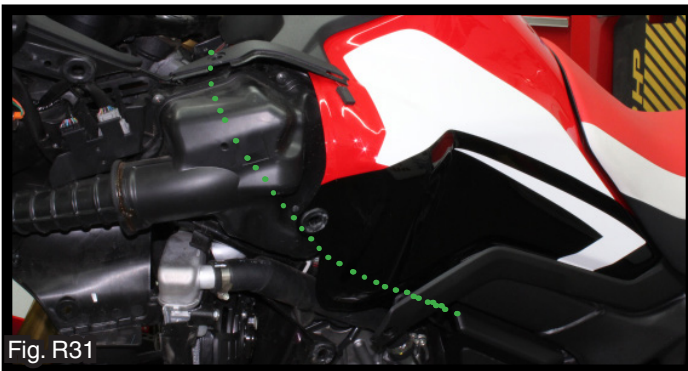
Wiring



Another view of where the the red and white wires come out from the auxiliary plug (Fig. R29).

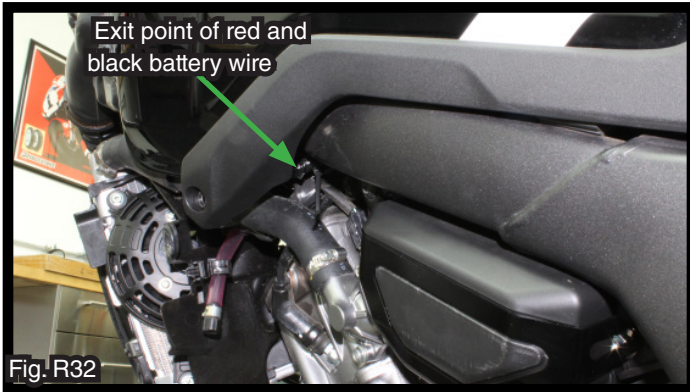


Reattach the the gas tank cover with its two bolts. Remove the fuse holder from the red wire connected to the wire harness, and slide the red and black power wire under the gas tank. (Fig. R30).

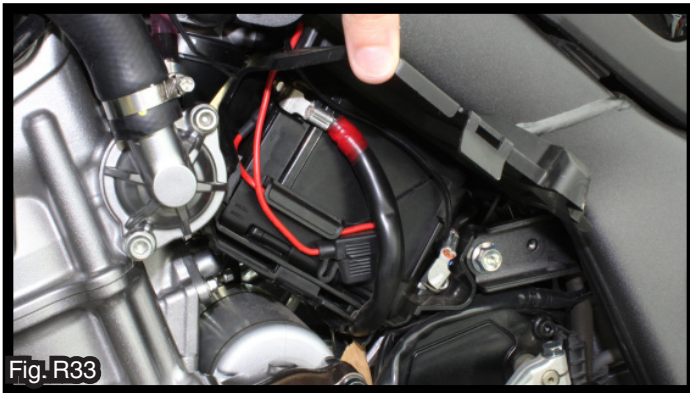


(Fig. R31) Shows the path the wire will follow under the gas tank to reach the battery.

Wiring



The red and black wire will exit from under the gas tank at the point marked in (Fig. R32)



Remove fuse to prevent short, and reattach the fuse holder to the red wire. Attach the ring terminal at the other end of the fuse holder to the positive terminal of the battery. Attach the ring terminal at the end of the black wire to the negative terminal of the battery. Make sure negative terminal is connected last. Neatly tuck away and secure wires (Fig. R34).

Wire Routing:

- 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.
- Please refer the wiring diagram on page 2. Use a Posi-twist to connect the green wire from the volume control knob to the two green wires from the lights (3 wires) (Fig. R34).
- Use a Posi-twist to connect red wire from the relay harness to the red wires from lights and volume control knob (4 wires) (Fig. R34).

Wiring

Wire Routing Continued:

- Connect ground/black wire to black wires from lights, relay harness, and volume control knob. (4 wires) (Fig. R34).
- Connect small red wire from the auxiliary plug to the small red wire from the relay harness with a Posi-Lock.
- Connect small white wire from the auxiliary plug to the small white wire of the volume control knob with a Posi-Lock.
- Secure the RED, GREEN, BLACK, and White wire junctions together with a provided zip tie and tuck out of the way. The location seen in (Fig. R35) is a great spot. Secure with another zip tie.
- Reinstall fuse into the relay harness and start motorcycle to test lights. On low beam, you should be able to adjust the brightness with volume control knob. On high beam the lights should go to full bright.
- Be sure all wires are tucked out of the way, and secured where needed, with the included zip ties.
- Reinstall body panels, and battery covers. Verify that no wires interfere with the steering or suspension parts of your bike.



Fig. R34

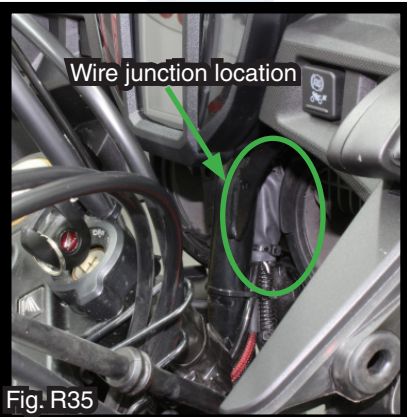


Fig. R35

Helpful Hints:

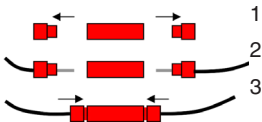
Do Not Kink The Grommet

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-lock:

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.

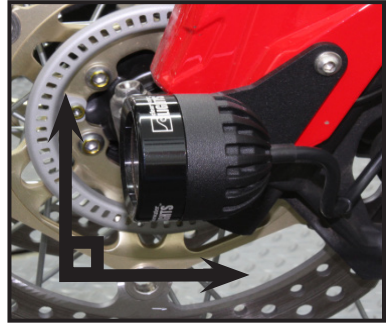


Alignment

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.

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

As of 02/11/22