Custom Dynamics® Magical Wizards™

Snowmobile Running Board Accent Light Kit

Installation Instructions

We thank you for purchasing the Custom Dynamics® Magical Wizards™ Snowmobile Running Board Accent Light Kit. Our products utilize the latest technology and high quality components to ensure you the most reliable service. We offer one of the best warranty programs in the industry and we back our products with excellent customer support, if you have questions before or during installation of this product please call Custom Dynamics® at 1(800) 382-1388.

Part Number: MWZ-OR-SNOW-01

Package Contents:
- 24" LED Heavy Duty Magical Wizard™ Light (2)
- Water Tight CCM6-W-BT with 2 Remotes (1)
- Dielectric Grease Tube (1)
- CD101-WZ-OR Install Kit:
   - 5 Position Cage Clamp® Connectors (4)
   - Heat Shrink Terminals (2)
   - Blue Butt Splice Connectors (2)
   - SW02 Weatherproof Switch (1)
   - Adhesive Primer (6)
   - 9" Black Cable Tie (20)

Fits: Compatible with 12VDC electrical systems with a negative ground.

NOTE: A 12VDC battery must be added to your snowmobile if your snowmobile does not already have one.

⚠️ **ATTENTION** ⚠️

Please read all Information below before Installation

Note: Magical Wizard™ LEDs use the black wire for power and the colored wires for grounds. Please read instructions and diagrams before beginning installation.

Important: In order for the weather proof 3M tape to cure properly, make sure that the controlled or ambient install temperature is **60° F or higher**. Allow 24 hours for tape to cure before washing or prolonged use of vehicle.

Important: Disconnect negative battery cable from battery before installation; refer to owner's manual if unsure of this process. Failure do to so may result in electrical shock, injury, or fire. Secure negative battery cable away from positive side of battery and all other positive voltage sources on bike.

Safety: Always follow safe working practices including safety gear and the proper tools. Make sure vehicle is cool enough to touch. Make sure it is secured on a level surface.

LED Accent Light Strip Installation:

1. Select hidden locations to mount the LED Accent Light strips to provide the best coverage of your choice and protection from general use. You will need to route the wires from the LED Accent Light strips to one central location near the battery.

2. It is very important to clean the selected mounting areas with rubbing alcohol to remove any grease, grime or wax. Using the provided Adhesive Primer, apply the primer to your selected mounting areas and allow to dry.

3. Remove the red backing from the LED strips and apply to the selected surfaces. Keep in mind the direction of the wires, they will all need to face the direction towards a central location near the battery for final termination. Press lightly on each unit along the total surface of the LED for 10 seconds to ensure proper contact.

4. Route wires from the LED strips back to a central location near the battery. Select locations to secure the wires to the frame using the provided cable ties. Make sure the wiring is clear of any hot or moving parts and does not interfere with normal operation.

5. Once the all the wires are routed back to a central location near the battery; then cut off any excess wiring from the LED strips. Strip the wires back to the appropriate length to prepare for termination.

Strip wire 9-10 mm. Use wire gauge on bottom to verify.

Wiring the LEDs

1. Using the 4 Cage Clamp® connectors (included), label each clamp with a number 1 through 4. If you need instructions on how to use the Cage Clamps®, see diagram to the right. You can double up as many wires as you can on each port of the connecter to allow space for all the LEDs. Leave at least 1 port open on each of the connecters to allow for the remote wiring.

Note: Apply dielectric grease (included) to all wire ends before connecting to cage clamps.

2. Join all the BLACK wires from LEDs into Cage Clamp® #1,

3. Join all the RED wires from LEDs to Cage Clamp® #2,

4. Join all the BLUE wires from LED's to Cage Clamp® # 3

5. Join all the GREEN wires from LEDs to Cage Clamp® #4.

6. Make sure all connections are secure in the clamp and will not pull out.

Push Lever up and insert wire...

Then push down lever to its closed position.

Questions? Call us at: 1 (800) 382-1388   M-TH 8:30AM-5:30PM / FR 9:30AM-5:30PM EST
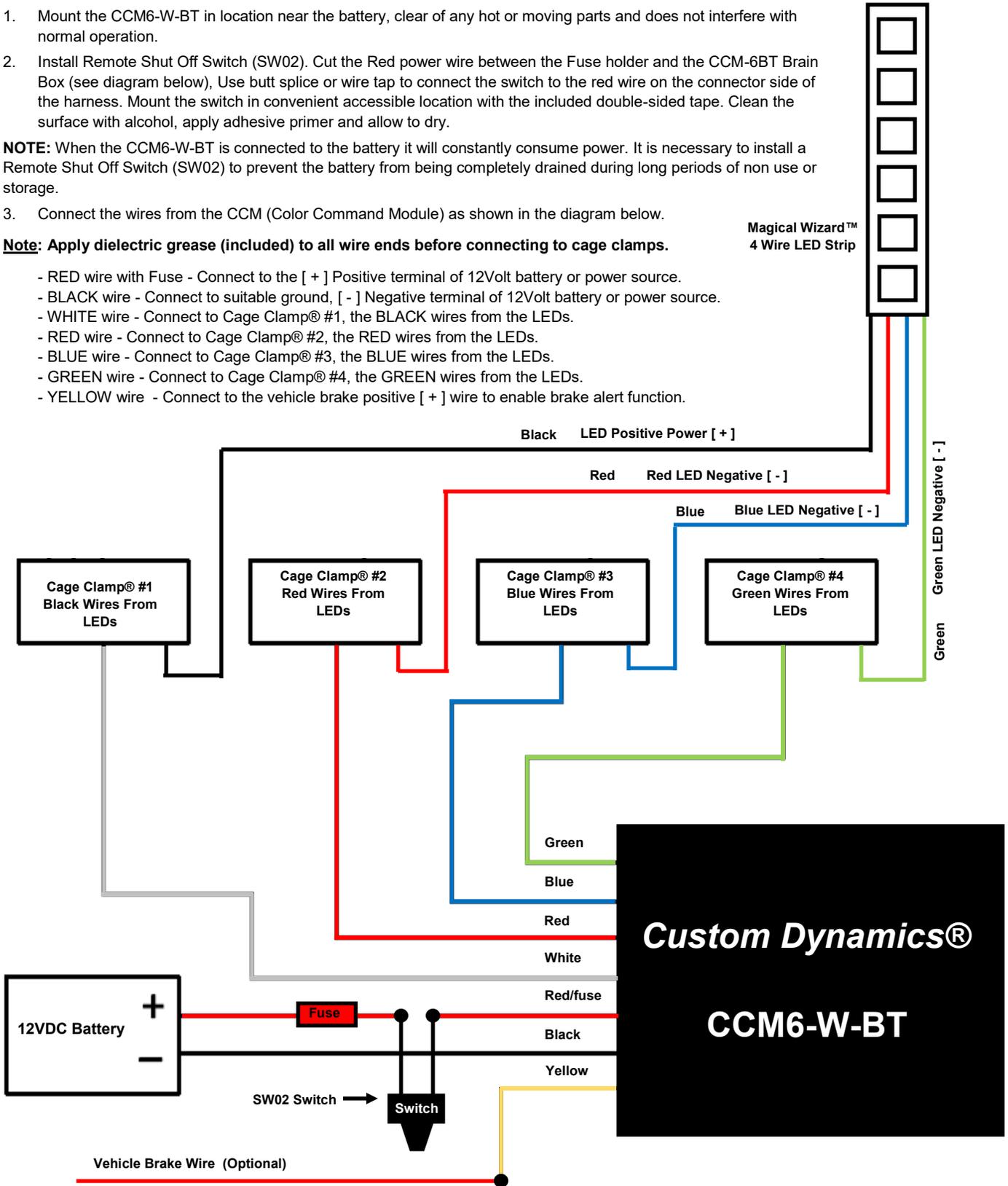
CCM6-W-BT Wiring:

1. Mount the CCM6-W-BT in location near the battery, clear of any hot or moving parts and does not interfere with normal operation.

2. Install Remote Shut Off Switch (SW02). Cut the Red power wire between the Fuse holder and the CCM-6BT Brain Box (see diagram below), Use butt splice or wire tap to connect the switch to the red wire on the connector side of the harness. Mount the switch in convenient accessible location with the included double-sided tape. Clean the surface with alcohol, apply adhesive primer and allow to dry.

NOTE: When the CCM6-W-BT is connected to the battery it will constantly consume power. It is necessary to install a Remote Shut Off Switch (SW02) to prevent the battery from being completely drained during long periods of non use or storage.

3. Connect the wires from the CCM (Color Command Module) as shown in the diagram below.

<u>Note:</u> **Apply dielectric grease (included) to all wire ends before connecting to cage clamps.**

- RED wire with Fuse - Connect to the [+] Positive terminal of 12Volt battery or power source.
- BLACK wire - Connect to suitable ground, [-] Negative terminal of 12Volt battery or power source.
- WHITE wire - Connect to Cage Clamp® #1, the BLACK wires from the LEDs.
- RED wire - Connect to Cage Clamp® #2, the RED wires from the LEDs.
- BLUE wire - Connect to Cage Clamp® #3, the BLUE wires from the LEDs.
- GREEN wire - Connect to Cage Clamp® #4, the GREEN wires from the LEDs.
- YELLOW wire - Connect to the vehicle brake positive [+] wire to enable brake alert function.

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Finish and Test

1. Inspect all connections, make sure nothing is loose, frayed, pinched or cut. A direct short will prevent the unit and LED's from functioning properly.

2. Re-connect the Negative [-] cable to the battery. Turn the vehicle power on and test function with the key fobs.

NOTE: See instructions that come with the CCM6-W-BT on using the key fobs or apps.

3. Once the system has been tested, dress the wires with provided cable ties as needed. Make sure the CCM6-W-BT and wiring are tucked out of the way from any heat or moving parts.

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Troubleshooting

This section will go over a few of the most common troubleshooting issues with the Heavy Duty Magical Wizard™ LEDs and the CCM6-W-BT remote and give tips to help get your system up and running. If after you have tried any of these and still have issues, call Custom Dynamics® for technical support.

Symptom: Key Fob Light not coming on ———————— *Remedy: Check and replace key fob batteries*

Symptom: Dim or pulsing blue light on key fob ———————— *Remedy: Check and replace key fob batteries*

Symptom: Dim lights or lights not turning off completely ——————— *Remedy: Grounding issue - With process of elimination, trace back all LED wires checking for nicks or cuts in wires. If nothing is found, remove LED's 1 by 1 and test system function each time.*

Symptom: Lights only get certain colors when on ——————— *Remedy: Inspect wires in all cage clamps, make sure all wires are pushed into sockets completely. Start with color you are not getting, red , green or blue.*

Symptom: Lights not coming on, key fob lights up ——————— *Remedy 1: Inspect the wires in the cage clamps. Make sure red and black wires are pushed into the sockets all the way. Also double check connections at the battery.*

Remedy 2: Check and or replace 7.5 amp in-line fuse.

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