



## Custom Dynamics Magical Wizards LED Installation Kit

Custom Dynamics  
Wake Forest, NC 27587  
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### **Contents**

- 4 Cage Clamp® Connectors
- 2 Crimp n Seal Spade Connectors
- 12” Weather proof double sided tape
- 1 - 3M Adhesion Promoter-Sponge Applicator Packet
- 10 Tie wraps

### **Tools Needed**

- Wire Cutters
- Wire Strippers
- Wire Crimpers
- Heat gun or blow dryer
- Open End Wrenches

Disclaimer: Custom Dynamics LLC assumes no liability of any kind as a result of conversions or additions to your vehicle.



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1. Always wear appropriate safety gear including safety glasses when soldering or performing any electrical work. It is highly recommended that safety glasses be worn throughout this installation process. Temperature of bike must be at least 60 degrees F. for tape to properly cure. Read all directions before starting project.
2. Turn fuel supply valve to off position before starting. Be sure bike is on level surface and secure and cool.
3. **Important:** Disconnect negative battery cable from battery; refer to owner's manual. 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.
4. Select hidden locations to mount LED Accent Lights to provide best coverage.
5. Remove fuse from fuse holder.
6. Clean mounting locations on both motorcycle and accent lights with 3M promoter, promoter sponge will dry up quickly, place sponge in sealed plastic bag when not in use. Do not touch 3M promoter with bare fingers.
7. Place piece of double sided tape on accent light if needed, lights come pre-taped on back surface. Trim excess off sides with razor blade. Carefully remove backing from double sided tape and place light on selected mounting location. Press firmly and hold for 10 seconds. Repeat for all lights to be mounted on bike.
8. Route wires from accent lights back to central points near battery compartment under seat. Route wires such that they not interfere with normal operation of bike. Cut off any excess wires, strip back insulation as required.
9. Select several locations to secure wires to frame. Secure wires using tie wraps provided.
10. Join all black wires from LEDs into one Cage Clamp Connector #1. Join all Red wires from LEDs into Cage Clamp Connector #2, Join all Blue wires from LEDs into Cage Clamp Connector #3, Join all Green wires from LEDs into Cage Clamp Connector #4.
11. Connect Orange wire from the remote control wire harness to the Red Cage Clamp Connector, connect Blue wire from remote control wire harness to Blue Cage Clamp Connector, connect Green wire from remote control wire harness to Green Cage Clamp Connector. Connect White wire from remote control wire harness to Black Cage Clamp Connector.
12. Crimp spade connector on ends of remaining Red and Black wires from Remote Wiring Harness. Heat spade connector with heat gun so that it shrinks around wire.
13. Connect Red Wire to Positive (+) side of battery, and Black Wire to (-) Side of battery. Take necessary precautions when making connection and refer to bike's owner's manual. DO NOT allow any tools to touch both positive (+) side of battery and any metal surface on bike as it will cause a short which could result in serious injury and damage to the battery or other electrical circuits.
14. Plug remote control wire harness connector to brain box connector.
15. Secure any remaining wires with tie wraps.
16. Reconnect Negative Battery terminal to negative side of battery taking necessary precautions not to touch positive side of battery or any positive cable.
17. Reinstall fuse in fuse holder.
18. Turn on switch and check operation of all lights. Allow double-sided tape to bond for 72 hours before exposing to water

Caution: Never run unit without fuse or with fuse greater than 3 amps.

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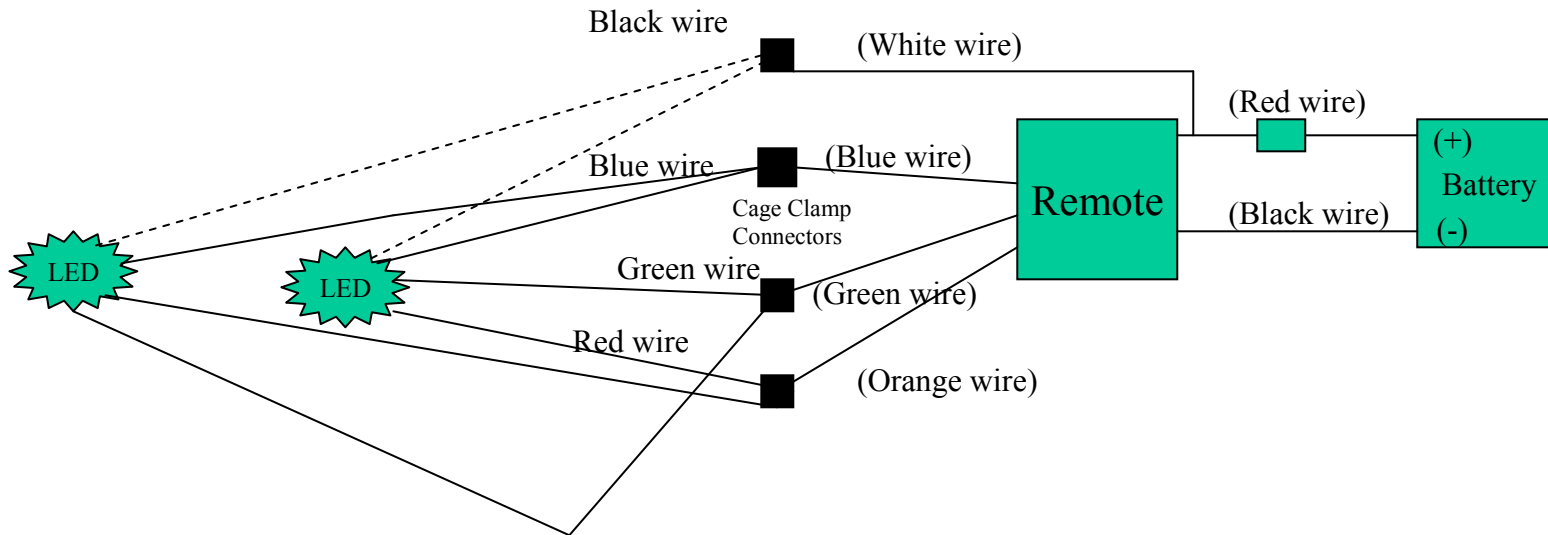


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## Block Diagram



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# Cage Clamp Instructions



Open the clamping point using one of the small orange colored levers so that the lever engages and keeps the clamping point in its opened position.

**The stripped wire can then be inserted into the clamping unit. When this is accomplished, the lever should be returned to its closed position flush with the terminal block housing. This reliably prevents accidental unclamping of a connected wire.**



Strip wire 9 - 10 mm. Use the stripped wire gauge on the back of the connector to verify correct strip length.



Connection: Push up lever and insert conductor . . .



. . . then push down lever to its closed