



MLK KIT USER MANUAL

Thank you for choosing CyronMotor products! Cyron is committed to provide the latest lighting technology without any compromises. Please read instructions completely before starting installation.

TOOLS NEEDED:

Wire stripper, Wire cutter, Electrical tape, Connector Crimper may be used.

INSTRUCTIONS:

Follow the wiring diagram to install the controller.

Battery/Supply Power: Locate the positive (+) and negative (-) battery posts. Cyron recommends connecting the input power directly to the battery posts. Ring terminals (blue color) have been provided for ease of connectivity to the battery posts. Alternatively, consult your vehicle owner's manual if you would like to connect to accessory switches. Do not exceed max current capacity and power rating of vehicle accessories. Remove fuse from fuse holder during the entire installation process. Replace fuse after the installation is fully complete.


Solder-less Terminal Block: Solder-less terminal blocks have been provided to eliminate the need of crimping tools or soldering. Strip the wires half an inch. There are five or three slots on each terminal block. With the orange lever lifted all the way (90°), a single wire or a combination of few wires twisted together can be inserted in the slot. Closing the lever will secure the wire(s) in place. The order of connecting wires in the openings does not matter. All openings of the terminal block are electrically connected together.

On the back of terminal blocks with a permanent marker write Z1, Z2, and Z3 for the corresponding zones.

LED Placement: Choose locations where the light does not get blocked by other objects. Shine light on the chrome parts to maximize the effectiveness of the LEDs. Larger non-reflective areas will need more lights. Be mindful about the lights not disturbing yours or other driver's night vision.

Cyron's state-of-the-art RC3A12 remote controller is able to operate in basic mode (Uni-Zone) or advance mode (Tri-Zone). In the Uni-Zone mode all the lights work together with a simple on/off operation. In this mode buttons 2, 3, 4 of the remote are deactivated. In the Tri-Zone mode three zones (groups) of LEDs work almost independently. For example, in a motorcycle lighting project Zone1 can be the lights around the motor, Zone2 can be the ground effect lights, and Zone3 can be lights in the wheels. See picture for some suggested areas. Each controller channel is dedicated to a zone of lights. In fact, each zone can be any LED (12VDC or 24VDC LED depending on the power source) that draws 3Amp or less.

IMPORTANT: Total controller capacity is 3x 3A or 9A. Do not exceed this rating. Serious damage to controller and wiring will be caused.

LED Attachment: Wipes have been provided to clean the LED bodies and the installation area free of grease and dust. 

Before proceeding make sure the wipes do not affect the painted surfaces. Wipe the area and let it dry completely. CYRON CV6 LED can be mounted on its side or back. Choose one or the other depending on the installation area and direction the light needs to project. Extra tape has been provided in case you decide to reposition the lights. Remove one side of the tape liner and place on the LEDs. Remove the other side of the liner (you may need a thin sharp object such as a knife to gently remove the liner) and place the lights in the designated areas. Avoid touching the adhesive surface.

FlexLED 12" light strips provided with Titanium kits can be mounted with 12" VHB tapes provided. They can be used as ground effects by mounting them under the bike's frame or to the metal supports of the bags. Connecting them to Zone 3 is the best option.

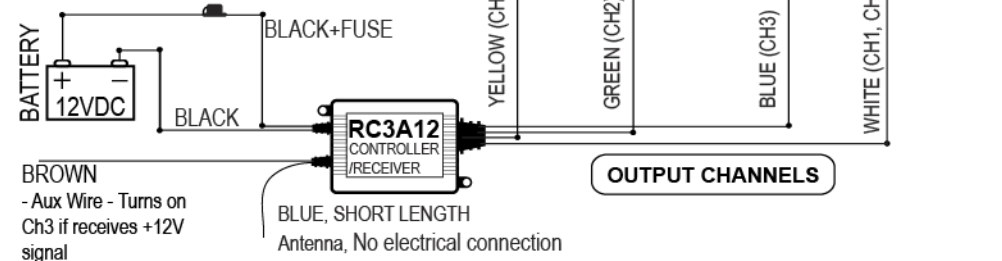
Pay special attention to placement of the wires. Avoid moving parts or coming in direct contact with the engine. Use wire ties to secure the wires. For added protection of the wires in harsh areas such as fenders or under the frame it is suggested to cover the wires with braided tubing. Cyron part# TUBINGBR-1/8BK.

OPERATIONS:

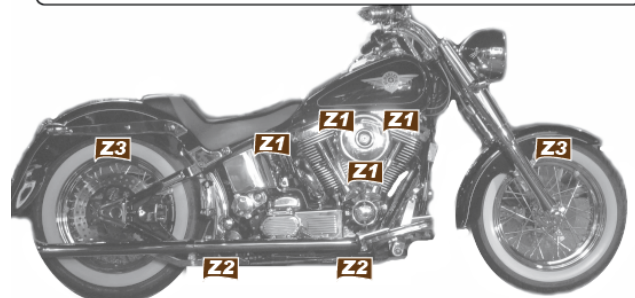
Pair Up Remote: The first step is to pair up the remote to the controller. With all wiring completed remove the fuse from fuse holder. Replace back and within 5 seconds press button 1 three consecutive times. All channels should flash 5 times confirming the pair up process. If not successful repeat process again.

CYRON, INC. MLK KIT WIRING

WIRE COLOR	CONNECTION/FUNCTION
WHITE	Output Common
YELLOW	Output Channel 1
GREEN	Output Channel 2
BLUE	Output Channel 3
BLACK	-12V, battery
BLACK w/ fuse	+12V, battery
BROWN	Brake / Aux Trigger
BLUE short	Antenna, No Connection



TRI-ZONE LED PLACEMENT SUGGESTIONS



- Z1= Zone1=Motor**
- Z2=Zone2=Ground Effect (option 1)**
- Z2=Zone2=Air Cleaner + Horn Cover (opt 2)**
- Z3=Zone3=Wheels, Saddle Bags**

BUTTON & FUNCTION

1. ON/OFF
2. MODE
3. SPEED, DECREASE
4. SPEED, UP



Operation Modes: The controller presently is either Uni-Zone or Tri-Zone modes. Test by pressing button 2 to see if any changes in lights take place. If pressing 2 does not change the lights the remote is in Uni-Zone mode. If the lights do change the remote is in Tri-Zone mode.

Change from Uni-Zone to Tri-Zone:

1. Turn the lights off using Button 1.
2. Press and hold buttons 3 and 4 for one second.
3. Ch2 will flash 5 times to confirm.

Change from Tri-Zone to Uni-Zone:

1. Turn the lights off using Button 1.
2. Press and hold buttons 1 and 2 for one second.
3. Ch1 will flash 5 times to confirm.

A vast array of features are available in Tri-Zone mode. There are 10 light modes, 5 static and 5 dynamic. In Static modes the lights are on solid without any movement. In Dynamic modes the lights (channels) go through a pre-programmed sequence of patterns which are appropriately named in the chart below. Speeds of the patterns are adjustable by pressing button 3 to decrease and button 4 to increase. There are 5 speeds in each Dynamic mode.

Brake light trigger/Aux Wire: This feature will make the accent light system become a safety or deterrent feature. Connecting Aux Wire to +12VDC will turn on Channel 3 regardless if the controller is on or off. For instance, connect Aux wire to brake lights and every time brakes are applied the lights of Ch3 can be additional visual signal. NOTE: Consult with your local laws regarding additional driving lights on vehicles. Another usage can be connecting Aux wire to output of an alarm system. Ch3 would turn on when alarm is triggered.

Battery Saver: Controller will cut off the light system if the supply voltage (vehicle battery) drops too low, preserving the battery for starting the vehicle. With this feature the lights can be left on without worrying about a dead battery. This feature does not apply to 24VDC supply voltages.

Modes in Tri-Zone (button 2 to change)	Channel 1	Channel 2	Channel 3
1 (Static)	ON	ON	ON
2 (Static)	ON	ON	OFF
3 (Static)	ON	OFF	OFF
4 (Static)	OFF	ON	ON
5 (Static)	OFF	OFF	ON
6 (Dynamic)	SHOW OFF		
7 (Dynamic)	BRING IT ON		
8 (Dynamic)	HEART BEAT		
9 (Dynamic)	KNOCKOUT		
10 (Dynamic)	BLIND SHOT		

SPECIFICATIONS

Operating Voltage	12-24VDC, 3x3A (9A peak)
CV6 LED	12VDC, 40mA each
FlexLED 12" strip FL30	12VDC, 150mA (Titanium Kits)
Control Processor	PWM, Common Anode
Cutoff Voltage	11.7V
Standby Current	16mA
Transmitter Frequency	433MHz

WARRANTY

Cyron warrants this product against any defects in materials or workmanship for a period of ONE (1) year from the date of purchase. The warranty covers normal usage as intended by the factory and does not cover misuse, abuse, accidents, or damages caused due to the acts of God. Proof of purchase is required.

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For details please contact your local dealer or visit CyronMotor.com:

Part Number	Description/Application
ABxxD	LED bulb Standard Mini, Fitment with ease
ABxxE	LED bulb ELITE-II, all models, Cars, Trucks, Bikes
ABIG4.5-A6K	Driving Lamp, Integrated LED, 4.5" Harley fog lamp
ABIG7-RNG	Mounting trim ring, 7" integrated, Chrome
ABIG7-RNG-B	Mounting trim ring, 7" integrated, Black
ABIGC3A	Adapter H9/11 to H4, Roadking 2016+
AC1156 /57A	2" Harley turn signal LED insert, avail in Red, Amber, White Halo
AC1156 /57PF	Pancake Harley turn signal LED insert, avail in Red, Amber, White Halo
ACT1156/7	Torch 2" Harley turn signal LED insert, avail in Red, Amber, White Halo
AB1157H2	Light bulb Ultra High Power LED 1157 dual, Amber, Red, White
AB3157H2	Light bulb Ultra High Power LED 3157 dual contact, Red, White
ABFT100-xx	Canbus and EMI noise filter for LED headlights, H4/H7/H9 and more
RC3A12	Tri-Zone accent lighting remote
MLKP7CZ	Accent light kit Platinum, Pro grade for mid size cruisers, avail in all 6 solid colors
MLKT10C2FZ	Accent light kit Titanium, Pro grade for large cruisers, avail in all 6 solid colors

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System diagnostics:

LIGHTS DO NOT TURN ON	Diagnosis
Is the supply voltage connected properly?	Make proper connection to battery terminals
Is the fuse in the fuse holder? Is it the fuse blown?	Check the fuse. Fuse type 5A or 7.5A small blade
Has the remote been paired up with controller?	Take fuse out and plug back in. Within 5 seconds of plugging in press button "1" on the remote 3 times. All channels should flash 5 times indicating the remote and controller have been paired. With same procedure up to two remotes can be learned by the controller. Pairing up a 3rd remote will erase the first one.
REMOTE NOT FUNCTIONING	Diagnosis
Remote indicator light does not turn on	Check remote battery. Type 27A. Cyron Part# BAT-27A
Remote indicator light stays on	The buttons have been pressed too hard. The silicon rubber buttons can be put out of alignment if pressed with too much force. Gently rock the buttons as they are being pressed to set them back in place.

VISIBILITY - SAFETY - STYLE