FIREWORKS ULTIMATE MULTI-COLOR LED STRIPS

INSTALLATION GUIDE

Tools needed for this job: Flat & Phillips screwdrivers, wire strippers & wire crimpers, 10mm, 3/8" & 7/16" wrenches. Isopropyl alcohol, rag, heat gun or hair dryer.

**** NOTE ****

WE RECOMMEND READING ALL THE INSTRUCTIONS FROM START TO FINISH **BEFORE** STARTING THE INSTALLATION. VIDEO INSTALLATION ALSO AVAILABLE AT WWW.BOOGEY.COM

1) Make sure bike is cool and parked on a flat, secure surface. Next, locate the battery and unhook the battery negative (-) cable. Remove seat or side covers as needed to gain access to this area.

NEGATIVE (-) BATTERY CABLE MUST BE UNHOOKED FIRST TO AVOID FIRE HAZARD

2) Determine the length you need for each of your LED strips by holding them up on the surface where you plan to install them. The full strip contains 12 LED clusters, or (4) 3-LED cluster segments. You can cut the strip a single time in 2 pieces, each strip being a multiple of 3 LED clusters. On most V-Twins you will use a 9 cluster segment under each side of the tank. Attach the remaining 3 cluster strips to the bottom of the horn & on the bottom of the breather backplate (or on the bottom of the fuel injection unit, depending on your breather type) both shining down. On many metric models with longer gas tanks you may want to place the entire 18" strip under the tank on each side. If you do this, you'll cut off one of the wire leads and cover with heat shrink tube to insulate them.

3) If you've purchased our **3-Strip Fireworks Ultimate Engine Kit with Ground Effects**, you will have received (3) 12-cluster strips for a total of 36 LED clusters. The recommended placement for Harleys is as stated above plus a 3-cluster strip under oil tank or on bottom of seat pan at rear of engine and a 9-cluster strip on lower frame tubing for ground effect lighting.

NOTE: WHEN CUTTING THE FIREWORKS FLEXIBLE STRIPS,BE SURE TO CUT THE STRIPS IN GROUPS OF LED CLUSTERS THAT ARE IN MULTIPLES OF 3. FOR EXAMPLE, A 12-CLUSTER STRIP CAN BE CUT INTO EITHER A 3-CLUSTER & 9-CLUSTER STRIP OR INTO TWO 6-CLUSTER STRIPS.

EACH OF THESE STRIPS WILL HAVE A 38 INCH WIRE LEAD ATTACHED TO THE END TO CONNECT TO THE REMOTE CONTROL SWITCH. AFTER CUTTING THE STRIPS, CUT THE 2 HEAT SHRINK TUBES IN HALF AND PLACE A PIECE OVER EACH OF THE CUT ENDS TO SEAL.

TO ATTACH THE HEAT SHRINK TUBING TO EACH CUT END, PEEL BACK THE RED TAPE BACKING ABOUT A HALF INCH. THEN SLIDE THE TUBE OVER THE END JUST FAR ENOUGH TO COVER THE GOLD CONTACTS AT THE EDGE. USE THE EXPOSED TAPE TO HOLD THE TUBE IN PLACE AND SHRINK IT WITH A HEAT GUN, LIGHTER OR HAIR DRYER. BE CAREFUL NOT TO APPLY TOO MUCH HEAT FOR TOO LONG OR YOU MIGHT DAMAGE THE STRIP. AFTER THE TUBE IS SHRUNK AROUND THE END OF THE STRIP, PRESS IT TIGHTLY WITH YOUR FINGERS TO PINCH AND SEAL THE END WHILE IT'S STILL HOT. BE CAREFUL NOT TO BURN YOURSELF ON THE HOT TUBE.

COVERING THE CUT ENDS WITH THE HEAT SHRINK TUBES ENSURES THAT THEY ARE BOTH INSULATED AND WATERPROOF. **FAILURE TO DO SO MAY RESULT IN A SHORT IF THE STRIP EVER TOUCHES METAL ON YOUR BIKE, VOIDING THE WARRANTY.**

4) Clean (with alcohol) & promote the mounting surface (with 3M primer) where you'll be attaching the strips. Mount the strips and run the power leads back under the seat for connection to the remote control box. Be very careful when mounting the strips as removal from a surface where they have made contact may damage the strip or cause the tape not to stick properly. The 3M primer will **cause immediate, permanent contact.** This type of damage is not covered under warranty. You must get it right the first time for a guaranteed trouble-free installation. TAKE YOUR TIME!

Remove the tape backing from the strip and apply the Flexible LED Strip to the prepped area with firm pressure. We suggest that you position the flexible strip before removing the tape backing. Remove a small amount of tape backing from one end of the strip while holding it in position. Continue to peel it off and press as you go to ensure that the tape doesn't stick prematurely to the wrong place.

5) Twist together all of the red wires from all of the strips, twist together all of the green wires and twist together all of the blue wires. Connect 1 of the 3 white wires from the control harness to each of your colored bundles (white to red, white to green, white to blue) using the blue Posi-Twist connectors.

6) Connect the red wire from the control harness to the fuse using the blue butt connector & heat shrink tubing. Twist the black wires from the LED strips together & connect to the black wire from the control harness and the ground wire that connects to the battery using a Posi-Twist connector.

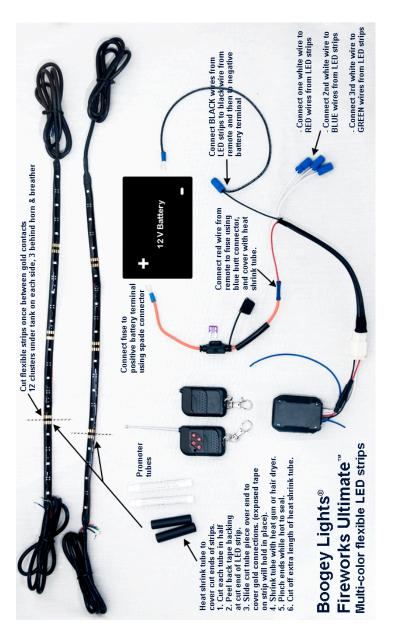**WE RECOMMEND USING THE BATTERY NEGATIVE (-) TERMINAL AS YOUR GROUND IF AT ALL POSSIBLE**.

Cut the black wire to length and crimp on the spade connector to the wire's end. Attach the spade connector to the ground point (negative battery terminal).

FOR ADDITIONAL INFORMATION ON THE INSTALLATION OF OUR FIREWORKS FLEXIBLE MULTI-COLOR LED STRIPS, PLEASE REVIEW OUR INSTALLATION VIDEOS AT HTTP://TV.BOOGEY.COM.

Make sure fuse is not installed in the fuse holder. If fuse is installed remove at this time. Slide heat shrink tubing onto wire before crimping butt connector onto wire. Attach a spade connector from the kit to one end of fuse holder wires and crimp spade connector onto the wire where it meets the battery. After crimping on the connector, attach this spade connector onto the **POSITIVE (+) POST. DO NOT INSTALL THE FUSE AT THIS TIME.**

NEVER USE WITH OTHER THAN 3 AMP/12 VOLT MINI BLADE FUSE AS SUPPLIED! USING ANY OTHER TYPE OF FUSE MAY CAUSE DAMAGE TO THE SYSTEM.

7) Connect the remaining lead from fuse holder to the red wire from the controller wire harness. As before, strip, butt connect and heat shrink these lead. Install fuse in holder.

8) Press the "A" button on either of the 2 remotes to turn on the lights. Refer to the remote operation guide to learn how to operate the lights using the remote's buttons.

9) All Fireworks Flexible LED strips are tested before being boxed and shipped. If you should have a unit that is not lighting, it is almost ALWAYS due to a faulty connection or by having the wires connected incorrectly. Recheck all work to and from that unit. You will find that 99.9% of the time it is one of those two things.

Cut flexible strips once between gold contacts
12 clusters under tank on each side, 3 behind horn & breather

Connect fuse to positive battery terminal using spade connector

Connect BLACK wires from LED strips to blackwire from remote and then to negative battery terminal

- Connect one white wire to RED wires from LED strips
- Connect 2nd white wire to BLUE wires from LED strips
- Connect 3rd white wire to GREEN wires from LED strips

12 V Battery

Connect red wire from remote to fuse using blue butt connector, and cover with heat shrink tube.

Promoter tubes

Heat shrink tube to cover cut ends of strips.
1. Cut each tube in half
2. Peel back tape backing at cut end of LED strip.
3. Slide cut tube piece over end to cover gold connections. (exposed tape on strip will hold in place).
4. Shrink tube with heat gun or hair dryer.
5. Pinch ends while hot to seal.
6. Cut off extra length of heat shrink tube.

Boogey Lights®
Fireworks Ultimate™
Multi-color flexible LED strips

REMOTE CONTROL OPERATION GUIDE

Button A is used to select the desired effect. There are 7 different effects you can select using button A. Change from one effect to the next by simply pressing button A. Within each of these effect settings the B and C buttons control the speed of the effect, the color and/or the brightness. Button D always turns your lights off.

Press button A to turn **ON** the first color. It will be either red, green or blue, depending on which white wire you attached to the red, green and blue wires from the LED strips. In this "on" mode you can change the displayed color by pressing button C repeatedly. Dim the LEDs by pressing button B.

Press button A again to make a selected color **FLASH**. Press button C to change colors and button B to control the speed of the flashing.

Press button A a 3rd time to **SWITCH COLORS AUTOMATICALLY**. In this mode button B controls the speed of the color switching and button C controls the brightness of the LEDs by further dimming them each time you press it, reseting to full brightness on the 5th click.

Pressing button A the 4th time activates the **BREATHING MODE**. In this mode the lights will go bright then dim, as if they are breathing. They automatically change colors with each "breath." In breathing mode button B controls the speed of the breathing. Button C is not operational in this mode.

The 5th time you press button A you'll activate the **STROBE MODE**. In this mode you can use button B to change the pattern of the strobe and button C to change the color.

On the 6th press of button A you'll enter the **COLOR CHANGING STROBE MODE**. In this mode button B changes the strobe pattern and button C is inactive.

Pressing button A a 7th time activates the **COLOR BLENDING MODE**. The colors continuously change in this mode. Control the speed of the blending by repeatedly pressing button C in this mode. You can also control brightness using button B.

You can turn the lights OFF in ANY MODE by pressing button D.