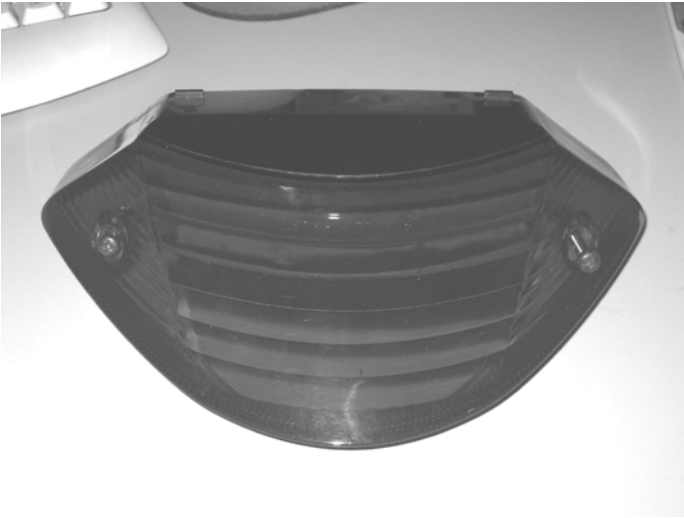


# CUSTOM LED HONDA 599/919 BLASTER-X INTEGRATED LED TAIL LIGHT RETROFIT KIT INSTALLATION INSTRUCTIONS

*NOTE: YOU MAY DOWNLOAD FULL SIZED INSTRUCTIONS AT [HTTP://WWW.CUSTOMLED.COM](http://www.customled.com) ON THE RESPECTIVE PRODUCT PAGE.*



## ITEMS YOU WILL NEED

- 1) PLIERS
- 2) WIRE SNIPS
- 3) PHILLIPS HEAD SCREWDRIVER
- 4) EYE PROTECTION
- 5) STOCK TAIL LIGHT REMOVED FROM BIKE.
- 6) GLUE GUN
- 7) DRILL AND DRILL BIT (3/16")
- 8) LATEX GLOVES



BEFORE PROCEEDING, PLEASE READ THESE INSTRUCTIONS THOROUGHLY. IF YOU FEEL YOU ARE UNABLE OR UNWILLING TO PERFORM THIS INSTALLATION, PLEASE CONTACT A QUALIFIED TECHNICIAN TO PERFORM THE INSTALLATION.

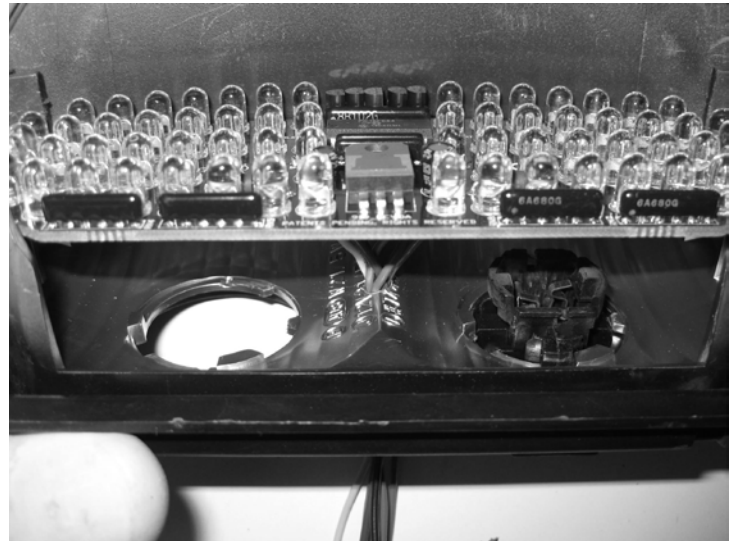
## GETTING STARTED

*IT IS HIGHLY RECOMMENDED THAT YOU USE LATEX GLOVES DURING THIS ENTIRE PROCESS. THIS WILL SAVE YOU A LOT OF CLEANING EFFORT LATER.*

1) REMOVE THE LENS FROM THE STOCK TAIL LIGHT.

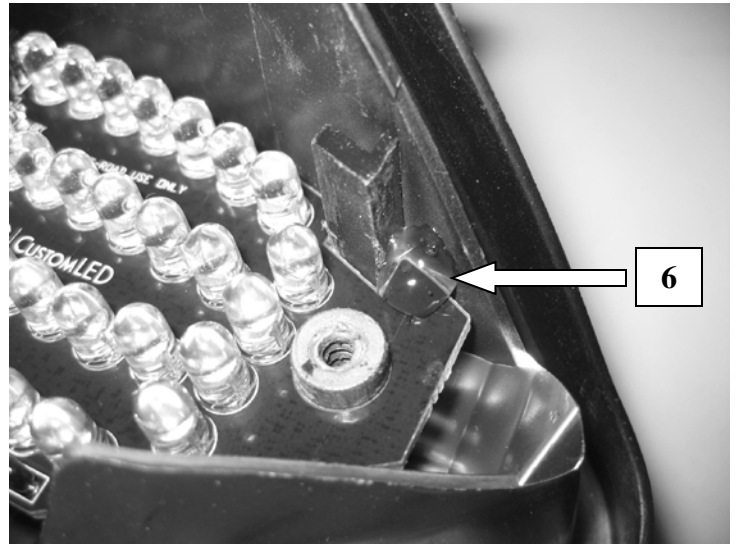
2) REMOVE THE LIGHT BULBS.

3) DRILL A HOLE IN THE BACK OF THE HOUSING AS SHOWN BELOW. THE HOLE SHOULD BE SIZED TO FIT ALL 6 WIRES FROM THE CUSTOM LED RETROFIT KIT CIRCUIT BOARD. AT THE TIME THESE INSTRUCTIONS ARE WRITTEN, THAT IS ABOUT 3/16" DIAMETER.



NOTE: THE LAMP SOCKET SHOULD NOT BE REMOVED AS SHOWN IN THE PICTURE. THE SAMPLE WE HAD DID NOT HAVE THIS PART INSTALLED WHEN WE CREATED THESE INSTRUCTIONS.

4) RUN THE SIX WIRES FROM THE CUSTOM LED BOARD THROUGH THE HOLE YOU MADE IN THE PREVIOUS STEP. BE SURE NOT TO TANGLE THE WIRES SO THEY SLIDE THROUGH NICELY. RUN ONE WIRE AT A TIME.



5) CAREFULLY POSITION THE CUSTOM LED CIRCUIT BOARD INTO PLACE. IT WILL SLIDE OVER THE TWO LARGE POSTS ON THE ENDS, AND ENGAGE THE FEATURES TIGHTLY ON THE TOP OF THE CIRCUIT BOARD ABOVE THE POSTS. **FIRMLY PRESS THE CIRCUIT BOARD DOWN INTO PLACE WITHOUT PUSHING ON THE LEDS OR ANY OTHER COMPONENTS.** PRESS ONLY ON THE TWO ENDS THAT ARE CLEAR OF COMPONENTS.

6) YOU **MUST** INSTALL A BEAD OF HOT-GLUE AS SHOWN IN THE ABOVE PICTURE TO SECURE THE CIRCUIT BOARD IN PLACE. VIBRATIONS FROM THE MOTORCYCLE WILL CAUSE THE CIRCUIT BOARD TO COME LOOSE IF YOU DO NOT DO SO, AND IT MAY DAMAGE THE UNIT AND WILL HINDER PERFORMANCE OF THE TAIL LIGHT.

7) HOT GLUE THE WIRES THAT PROTRUDE FROM THE TAIL LIGHT HOUSING TO CREATE A WATER-TIGHT SEAL.

8) INSTALL THE LENS TO PROTECT THE CIRCUIT BOARD IN THE NEXT STEPS.

### WIRING UP YOUR CUSTOM LED BOARD

YOU WILL CONNECT THE WIRES THAT LEAD TO THE ONE OF THE OEM BULB SOCKETS TO THE CUSTOM LED BOARD AS FOLLOWS:

- GREEN ON HARNESS TO 6" BLACK ON CUSTOM LED BOARD (GROUND)
- GREEN/YELLOW ON HARNESS TO 6" YELLOW ON CUSTOM LED BOARD (BRAKE LIGHT +12V)
- BROWN ON HARNESS TO 6" BLUE ON CUSTOM LED BOARD (RUNNING LIGHT +12V)

USE THE THREE (3 OF 5) SUPPLIED ORANGE SPLICE CONNECTORS (OR SOLDER AND HEAT SHRINK). PUSH THE TWO WIRES TO BE SPLICED TOGETHER INTO THE OPEN END OF THE SUPPLIED CONNECTORS. BE SURE TO PUSH THE WIRES ALL THE WAY IN (UNTIL YOU CAN SEE THEY HAVE REACHED THE OTHER SIDE).

NOTE: THE SPLICE IS MORE RELIABLE IF THE WIRE IS NOT STRIPPED. BE SURE TO SNIP OFF THE BARE ENDS OF THE WIRES TO BE SPLICED, TO ENSURE THAT THERE IS INSULATION WHERE THE SPLICE WILL OCCUR. THE SUPPLIED SPLICE CONNECTORS AUTOMATICALLY DISPLACE THE INSULATION AS NECESSARY.

ONCE YOU DOUBLE CHECK YOUR COLOR MATCHING AND ARE ABSOLUTELY SURE THAT THE WIRES ARE FULLY INSERTED INTO THE SPLICE CONNECTORS DO THE FOLLOWING:

9) SQUEEZE THE SPLICE CONNECTORS FIRMLY WITH PLIERS. VISUALLY INSPECT YOUR CONNECTIONS TO SEE THAT THEY HAVE BEEN SPLICED PROPERLY INSIDE.

### WIRING THE BLINKERS

10) LOCATE THE BLINKER WIRES ON THE MOTORCYCLE. IF YOU HAVE NOT REMOVED THE STOCK BLINKERS YET, YOU CAN SIMPLY FOLLOW THE WIRES.

YOU HAVE TWO (2) OPTIONS FOR WIRING YOUR CUSTOM LED BLINKER WIRES.

A) MAINTAIN THE STOCK PLUG IN TYPE CONNECTION BY CUTTING THE WIRES OFF OF THE STOCK BLINKERS AND USING THE SUPPLIED ORANGE SPLICE CONNECTORS TO SPLICE THE FACTORY PLUG ONTO THE CUSTOM LED WIRES (RECOMMENDED).

-OR-

B) USE THE NON-DESTRUCTIVE RED TAP CONNECTORS TO SPLICE INTO THE WIRING ON THE MOTORCYCLE.

WHICHEVER ROUTE YOU DECIDE TO GO, YOU WILL NEED TO CONNECT THE 16" BROWN AND GREEN WIRES FROM THE CUSTOM LED TAIL AS FOLLOWS:

- ORANGE ON HARNESS TO 16" BROWN WIRE FROM CUSTOM LED BOARD (+12V LEFT TURN)
- BLUE ON HARNESS TO 16" GREEN WIRE FROM CUSTOM LED BOARD (+12V RIGHT TURN)

NOTES:

- A) IF YOU DECIDE TO REUSE THE STOCK CONNECTOR BY CUTTING THE WIRES OFF OF THE STOCK BLINKERS, YOU WILL HAVE AN EXTRA WIRE ON EACH SIDE, WHICH IS NOT TO BE CONNECTED TO ANYTHING – THIS IS AN UNNECESSARY GROUND WIRE. WE SUGGEST YOU TAPE IT OFF NEATLY.

11) NEATLY ZIP TIE OR TAPE THE WIRES TOGETHER FOR A TROUBLE FREE INSTALL!

### RED LENS OR CLEAR LENS

THIS TAIL LIGHT HAS BEEN CAREFULLY DESIGNED TO FUNCTION WITH EITHER A CLEAR LENS, USING RED AND AMBER LEDS, OR WITH A RED TINTED LENS USING ONLY RED LEDS. IT IS VERY IMPORTANT THAT YOU CONFIGURE THE CIRCUIT BOARD THROUGH THE PROGRAMMING INTERFACE ACCORDINGLY. USING THE RED/AMBER SETTING BEHIND A RED TINTED LENS WILL PERFORM HORRIBLY. THE DEFAULT SETTING IS FOR THE OEM RED LENS. IF YOU HAVE A CLEAR LENS, YOU SHOULD CHANGE THE TURN SIGNAL OPERATION MODE TO AMBER AS PER THE PROGRAMMING INSTRUCTIONS.

### STROBE MODE CONTROL WIRE (GRAY)

YOUR CUSTOM LED TAIL LIGHT IS EQUIPPED WITH A STROBE MODE FEATURE. THIS FEATURE IS ENGAGED BY GROUNDING THE GRAY 16" WIRE (TO ANY COMMON GROUND POINT: BATTERY (-) OR FRAME). THIS WIRE SHOULD BE CONNECTED TO A TOGGLE SWITCH TO CONTROL STROBE MODE OPERATION. FOR NORMAL TAIL LIGHT OPERATION, THIS WIRE SHOULD NOT BE CONNECTED.

YOUR TAIL LIGHT IS ALSO EQUIPPED WITH ADVANCED USER CUSTOMIZABLE FEATURES THAT IS ACCESSED VIA THIS STROBE MODE CONTROL WIRE AS WELL. PLEASE REFER TO THE PROGRAMMING INSTRUCTIONS THAT SHIPPED WITH YOUR TAIL LIGHT FOR THIS PROCEDURE.

**NOTE: STROBE MODE OVERRIDES ALL OTHER FUNCTIONS OF THE TAIL LIGHT AND IS NOT INTENDED FOR STREET USE!**

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### TROUBLESHOOTING

YOU MAY FIND THAT YOUR BLINKERS BLINK FASTER NOW THAT YOU HAVE REMOVED THE STOCK TURN SIGNALS IN THE REAR OF THE BIKE. THIS IS THE DESIGNED RESPONSE OF THE FLASHER RELAY – AND IT IS OK TO LEAVE IT THIS WAY. IF YOU WISH TO SLOW YOUR BLINK RATE, YOU MUST REPLACE YOUR FLASHER RELAY OR ADD LOAD TO THE SYSTEM. THE CUSTOM LED ELECTRONIC LED FLASHER RELAY OR LOAD EQUALIZERS ARE THE PERFECT SOLUTION FOR THIS! SEE [HTTP://WWW.CUSTOMLED.COM](http://www.customled.com) FOR MORE INFORMATION.

IF YOU HAVE REPLACED THE FRONT TURNS SIGNALS WITH LEDS ALSO, YOU MAY FIND THAT YOUR BLINKERS DON'T BLINK AT ALL - YOU MUST REPLACE YOUR FLASHER RELAY OR ADD LOAD TO THE SYSTEM TO FIX THIS PROBLEM. AGAIN, THE CUSTOM LED ELECTRONIC LED FLASHER RELAY OR LOAD EQUALIZERS ARE PERFECT FOR THIS. VISIT [HTTP://WWW.CUSTOMLED.COM](http://www.customled.com).

IF YOUR TAIL LIGHT IS NOT FUNCTIONING PROPERLY, CHECK YOUR CONNECTIONS CAREFULLY! THE CUSTOM LED INTEGRATED TAIL LIGHTS ARE TESTED "GOING INTO THE BOX." YOU CAN SAVE YOURSELF A LOT OF AGGRAVATION BY SIMPLY DOUBLE AND TRIPLE CHECKING YOUR WIRING. IN THE EVENT THAT YOU MAY HAVE A FAULTY UNIT, PLEASE CONTACT YOUR VENDOR FOR ASSISTANCE OR E-MAIL [SUPPORT@CUSTOMLED.COM](mailto:support@customled.com).

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### DISCLAIMER

BY SELLING YOU THIS PRODUCT, WE MAKE NO GUARANTEE THAT THE USE OF THIS PRODUCT CAN OR WILL HELP REDUCE THE CHANCE OF ACCIDENTS IN ANY WAY, NOR ARE WE LIABLE IN ANY WAY. IT IS YOUR RESPONSIBILITY TO VERIFY PROPER FUNCTIONALITY OF THIS PRODUCT EVERY TIME YOU START YOUR MOTORCYCLE. FURTHERMORE, IT IS YOUR RESPONSIBILITY TO FOLLOW THE LAWS OF YOUR LOCAL JURISDICTIONS AS FAR AS D.O.T. REQUIREMENTS FOR MARKER LIGHT AND BLINKER LIGHT SHAPE, COLOR AND INTENSITY.

**THIS PRODUCT IS SOLD "FOR OFF-ROAD USE ONLY."**

# CUSTOM LED TAIL LIGHT PROGRAMMING INSTRUCTIONS

YOUR TAIL LIGHT IS EQUIPPED WITH A UNIQUE INTERFACE THAT ALLOWS YOU TO CUSTOMIZE CERTAIN FEATURES OF THE TAIL LIGHT. THIS INTERFACE IS ACCESSED AND CONTROLLED VERY SIMPLY THROUGH THE GRAY STROBE MODE CONTROL WIRE. (NOTE: ONLY TAIL LIGHTS WITH “\_PI1” IN THE PART NUMBER HAVE THIS FEATURE.)

YOU WILL NEED TO HAVE THE STROBE MODE CONTROL WIRE CONNECTED TO GROUND (-) THROUGH A TOGGLE SWITCH FOR EASY PROGRAMMING, AND THE TAIL LIGHT WILL HAVE TO BE PROPERLY INSTALLED AND FUNCTIONING ON THE MOTORCYCLE.

FOR SIMPLICITY, THE GRAY WIRE WILL BE CALLED THE “CONTROL WIRE” AND IT WILL BE ASSUMED THAT YOU HAVE THE CONTROL WIRE CONNECTED TO A TOGGLE SWITCH WITH AN “ON” (GROUNDED) AND “OFF” (UNGROUNDED) POSITION. THIS WILL BE CALLED THE CONTROL SWITCH FROM NOW ON.

## ACCESSING THE PROGRAMMING INTERFACE

**A) WITH THE CONTROL SWITCH ON, TURN ON THE MOTORCYCLES IGNITION, THEN TURN OFF THE CONTROL SWITCH (YOU HAVE SUCCESSFULLY ENTERED PROGRAM MODE IF THE TAIL LIGHT REMAINS LIT DIMLY YELLOW)**

*NOTE: ANY INPUTS TO THE TAIL LIGHT (BRAKE OR TURN) WILL PULL THE TAIL LIGHT OUT OF PROGRAM MODE FOR SAFETY REASONS.*

## CUSTOMIZING FEATURES

ONCE YOU HAVE ACCESSED THE PROGRAMMING INTERFACE, YOU CAN CUSTOMIZE THE FOLLOWING MENUS.

- 1) TURN THE STARTUP SEQUENCE ON/OFF.
- 2) SET THE NUMBER OF BRAKE ALERT PULSES FROM 0 TO 19, OR CONSTANT WHILE BRAKES APPLIED.
- 3) SET THE TURN SIGNAL OPERATION MODE TO AMBER OR RED ONLY
- 4) RESET FACTORY DEFAULTS (SAME AS WHEN THE TAIL LIGHT WAS MANUFACTURED).

SELECT THE MENU ITEM YOU WISH TO ACCESS AND MODIFY. ENTER THE MENU BY DOING THE FOLLOWING:

**B) TURN THE CONTROL SWITCH ON AND OFF THE NUMBER OF TIMES CORRESPONDING TO THE MENU NUMBER YOU WISH TO ENTER.**

FOR INSTANCE, TO SET THE TURN SIGNAL COLOR YOU WOULD TURN THE CONTROL SWITCH ON AND OFF THREE TIMES. FOR EXAMPLE: ON, OFF, ON, OFF, ON, OFF. (NOTE: YOU MUST COMPLETE THE ON-OFF SEQUENCE WITHIN 10 SECONDS.)

AFTER APPROXIMATELY 5 SECONDS, THE TAIL LIGHT WILL “READ BACK” THE MENU NUMBER BY BLINKING ON AND OFF THE CORRESPONDING NUMBER OF TIMES YOU HAVE SELECTED. THE TAIL LIGHT WILL THEN ENTER THE CUSTOMIZATION MODE FOR THAT MENU ITEM.

FOR THE TURN SIGNAL COLOR SELECTION, THE TAIL LIGHT WILL NOW DISPLAY THE CURRENT SET COLOR ON ONE SIDE (THIS WILL HAPPEN IMMEDIATELY AFTER THE READ-BACK).

**C) TO CUSTOMIZE THE MENU ITEM YOU HAVE ACCESSED, SIMPLY USE THE CONTROL SWITCH TO ADVANCE THE FEATURE TO THE NEXT VALUE.**

EACH TIME THE CONTROL SWITCH IS TURNED ON AND OFF, THE ITEM WILL ADVANCE TO THE NEXT VALUE AND EVENTUALLY CYCLE BACK AROUND TO THE FIRST SETTING.

**D) WHEN YOU HAVE SELECTED THE VALUE YOU WANT, SIMPLY TURN OFF THE IGNITION.**

THE SETTING YOU CHOSE WILL BE STORED INTO THE NON-VOLATILE MEMORY WHICH MEANS IT SHOULD STAY THE SAME UNTIL THE NEXT TIME YOU CHANGE IT!

ONLY ONE MENU ITEM CAN BE ACCESSED AT A TIME. TO CHANGE ANOTHER MENU ITEM, REPEAT THIS PROGRAMMING PROCEDURE FROM THE BEGINNING.