

# CUSTOM LED 2004-2007 ZX-10R & 2005-2006 ZX-6R/RR & 2006 Z750S

## 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) DREMOL WITH CUTTING WHEEL OR EQUIVALENT
- 2) PLIERS
- 3) WIRE SNIPS
- 4) FLAT HEAD SCREWDRIVER
- 5) PHILLIPS HEAD SCREWDRIVER
- 6) EYE PROTECTION
- 7) STOCK LED TAIL LIGHT REMOVED FROM BIKE.
- 8) SOLDERING IRON (OPTIONAL)
- 9) GLUE GUN
- 10) CRAZY GLUE (OR EQUIVALENT)
- 11) LATEX GLOVES



BEFORE PROCEEDING  
PLEASE READ THESE  
INSTRUCTIONS  
THOROUGHLY. IF YOU  
FEEL YOU ARE UNABLE OR  
UNWILLING TO PERFORM  
THIS INSTALLATION  
PLEASE CONTACT McCOY  
MOTORSPORTS AT 606-432-  
1556 FOR YOUR FREE  
INSTALLATION!



### GETTING STARTED

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

- 1) POSITION YOUR CUTTING WHEEL AT THE GLUE SEAM BETWEEN THE CLEAR LENS AND THE BLACK PLASTIC HOUSING.
- 2) PROCEED TO CUT INTO THE CLEAR LENS APPROXIMATELY HALF OF THE THICKNESS, ALL THE WAY AROUND THE PERIMETER OF THE LENS – BE SURE NOT TO CUT ALL THE WAY THROUGH BECAUSE IT WILL NOT GLUE BACK TOGETHER PROPERLY. SEE “TIPS FOR CUTTING YOUR LENS” BEFORE BEGINNING.



### TIPS FOR CUTTING YOUR LENS

- A) KEEP THE CUTTING WHEEL MOVING AND APPLY LIGHT PRESSURE. SITTING IN ONE SPOT WILL JUST MELT THE PLASTIC.
- B) TRY TO STAY TIGHT AGAINST THE INSIDE EDGE WHERE THE CLEAR LENS AND THE BLACK BACKING MEET (CUTTING THE CLEAR PART).

*WHEN YOU MAKE YOUR WAY AROUND THE ENTIRE PERIMETER, CLEAN ALL THE BURRED PLASTIC FROM AROUND THE EDGES AND FROM INSIDE THE GROOVE YOU'VE MADE.*



### OPENING THE LENS

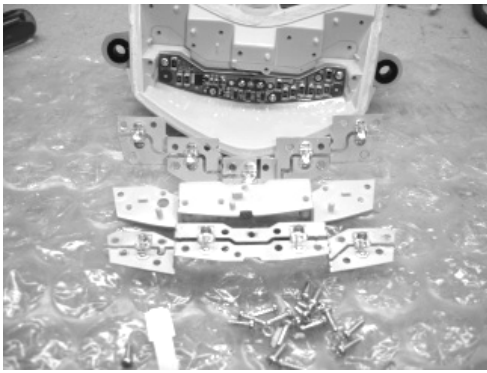
- 3) PLACE THE TIP OF A FLAT HEAD SCREWDRIVER IN THE GROOVE YOU HAVE CREATED.
- 4) GENTLY TWIST THE SCREWDRIVER TO CRACK THE GLUE ALONG THE GROOVE.

NOTE: AS SOON AS YOU HEAR THE SOUND OF THE GLUE GIVING (A CRACK), MOVE THE SCREWDRIVER SLIGHTLY AND ADVANCE THE CRACK. SLOW AND STEADY IS THE NAME OF THE GAME HERE. IF YOU FIND A HARD SPOT, WEAKEN IT WITH THE CUTTING WHEEL AS NECESSARY.



THE HARD PART IS OVER! YOU CAN RELAX NOW!

- 5) REMOVE THE SCREWS HOLDING THE STOCK LED BOARDS TO THE HOUSING (YOU BE REUSING SOME OF THE SCREWS AND THE TWO LOCK WASHERS, SO PUT THEM TO THE SIDE).



6) REMOVE THE STOCK LED ASSEMBLIES FROM THE LENS HOUSING, AND THE PLASTIC PLATFORM AS SHOWN.

YOU WILL NO LONGER NEED THE STOCK LED BOARD, DISPOSE OF IT AS YOU WISH.

**NOTE: THE CIRCUIT BOARD REMAINING ATTACHED TO THE HOUSING IN THE PICTURE IS NOT TO BE REMOVED!**

7) SNIP OFF THE TWO (2) WIRES CONNECTED TO THE REMAINING CIRCUIT BOARD. BE SURE TO SNIP THE WIRES AS CLOSE TO THE CIRCUIT BOARD AS POSSIBLE.



8) DRILL A HOLE IN THE SIDE OF THE LENS HOUSING AS SHOWN. THIS HOLE WILL BE USED TO ROUTE THE WIRES OUT OF THE LENS.

THE PROPER BIT SIZE IS BASED ON THE NEXT STEP:

IF YOU HAVE A SOLDERING IRON AND GOOD SOLDERING SKILLS, USE A BIT THAT WILL ACCOMMODATE TWO WIRES. IF YOU DO NOT HAVE OR DO NOT WISH TO USE A SOLDERING IRON, USE A BIT THAT WILL ACCOMMODATE ALL 5 WIRES.

### WIRING UP YOUR CUSTOM LED BOARD

YOU HAVE TWO CHOICES FOR WIRING YOUR CUSTOM LED BOARD. ONE REQUIRES THE USE OF A SOLDERING IRON AND THE OTHER DOES NOT.



**9-A) IF YOU HAVE ACCESS TO A SOLDERING IRON AND HAVE GOOD SOLDERING SKILLS DO THE FOLLOWING (IF NOT SKIP TO STEP 9-B):**

SOLDER THE FOLLOWING WIRES FROM THE CUSTOM LED TAIL TO THE SOLDER POINTS SHOWN ON THE STOCK CIRCUIT BOARD REMAINING IN THE HOUSING:

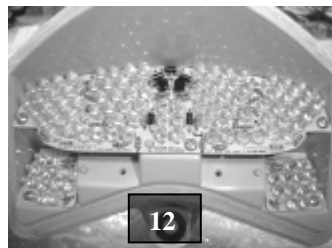
- BLACK WIRE TO POINT LABELED "G" (LEFT POINT AS SHOWN IN THE PICTURE)
- BLUE WIRE TO POINT LABELED "S" (MIDDLE POINT AS SHOWN IN THE PICTURE)
- RED WIRE TO POINT LABELED "T" (RIGHT POINT AS SHOWN IN THE PICTURE)

**ROUTE THE REMAINING WIRES (BROWN AND GREEN) THROUGH THE HOLE YOU MADE IN STEP 8.**



**9-B) IF YOU DO NOT HAVE ACCESS TO A SOLDERING IRON DO THE FOLLOWING:**

RUN THE (5) WIRES FROM THE CUSTOM LED BOARD THROUGH THE HOLE YOU CREATED IN STEP 8.



10) POSITION YOUR CUSTOM LED BOARDS IN PLACE AS SHOWN AND LOOSELY FASTEN THE CENTER SCREW OF THE LARGE BOARD USING ONE OF THE SCREWS REMOVED FROM THE STOCK BOARD AS SHOWN.

**NOTE: IT IS EXTREMELY IMPORTANT TO MAKE SURE THAT YOU DO NOT PINCH ANY OF THE WIRES UNDERNEATH THE CIRCUIT BOARD. MAKE SURE THE WIRES ARE FREE AND NOT PRESSED UP TIGHT AGAINST ANY OF THE SHARP SOLDER POINTS AS THIS WILL CERTAINLY CAUSE PROBLEMS IMMEDIATELY OR IN THE FUTURE. DO NOT OVER-TIGHTEN THE SCREWS.**

11) INSTALL ONE LOCK WASHER (REMOVED FROM THE STOCK BOARD) UNDERNEATH THE LEFT AND RIGHT CORNER SUPPORT OF THE CUSTOM LED BOARD AND INSTALL A SCREW. ONCE BOTH SIDES ARE COMPLETE, TIGHTEN THE CENTER SCREW. THIS WASHER PROVIDES PROPER ALIGNMENT AND PREVENTS OVERSTRESSING OF THE CIRCUIT BOARD.

12) INSTALL THE SCREWS TO SUPPORT THE TWO SMALLER LED CLUSTERS AND POSITION THE CONNECTING RIBBON CABLES UNDERNEATH THE LARGER BOARD AND OUT OF THE FIELD OF VIEW.



13) AT THIS POINT WE HIGHLY RECOMMEND SEALING THE HOLE YOU CREATED IN STEP 8 USING A HOT-GLUE GUN. IF YOU DO NOT HAVE A HOT GLUE GUN AT THIS POINT, YOU MAY SEAL IT FROM THE OUTSIDE OF THE LENS AT A LATER TIME OR WITH ANOTHER SEALANT. BE SURE ALL THE WIRES ARE THROUGH AND ARE NICELY PLACED.

*DO NOT SEAL THE LENS IF YOU HAVE APPLIED A SEALANT ON THE INSIDE THAT REQUIRES "CURING" TIME.*

### **RESEALING YOUR LENS**

CONGRATULATIONS! YOU'RE ONE STEP AWAY FROM FULFILLING YOUR WILDEST DREAMS – OK, MAYBE NOT, BUT YOU'RE ALMOST DONE WITH YOUR CUSTOM LED 2004-2006 ZX-10R & 2005-2006 ZX-6R/RR & 2006 Z750S TAIL!

IT IS SUGGESTED AT THIS POINT THAT YOU PLUG IN THE CUSTOM LED TAIL LIGHT (IF YOU FOLLOWED STEP 9A ABOVE WITH SOLDER – OTHERWISE, YOU MAY WANT TO TEMPORARILY CONNECT THE TAIL LIGHT AS DESCRIBED BELOW) TO VERIFY THAT THE WIRING IS DONE CORRECTLY BEFORE RESEALING THE LENS. THE RUNNING LIGHT AND BRAKE LIGHT SHOULD WORK PROPERLY.

14) RE-SEAL YOUR LENS GLUE OF YOUR CHOICE. WE HIGHLY RECOMMEND HOT GLUE AS IT DOES NOT CONTAIN VAPORS THAT PERMINANTLY DISCOLOR THE LEDS OR THE LENS. THE PROPER WAY TO USE HOT GLUE IS TO MOUNT THE LENS ON THE BUCKET AND RUN A BEAD OF HOT GLUE IN THE CUT RIDGE YOU MADE WITH THE DREMOL. MAKE SURE YOU WORK SLOWLY AND ALLOW THE GLUE TO PENETRATE INTO THE RIDGE.

15) ALLOW THE GLUE TO SET BEFORE DOING ANY MORE WORK.

### **WIRING THE TAIL LIGHT**

16) AFTER ALLOWING THE GLUE ON THE LENS TO SET, MOUNT THE TAIL UNIT BACK ON THE MOTORCYCLE.

17) IF YOU HAVE FOLLOWED STEP 9A ABOVE AND HAVE SOLDERED THE THREE WIRES INSIDE THE TAIL LENS, SIMPLY PLUG THE TAIL LIGHT INTO THE HARNESS AND THEN SKIP TO STEP 18.

IF YOU HAVE NOT SOLDERED THE WIRES INSIDE THE TAIL LENS AS PER STEP 9A, YOU WILL NEED TO MATCH UP THE WIRE COLORS COMING FROM THE TAIL LIGHT HOUSING AS FOLLOWS:

- RED ON HARNESS TO RED FROM CUSTOM LED BOARD
- BLUE ON HARNESS TO BLUE FROM CUSTOM LED BOARD
- BLACK/YELLOW STRIPE ON HARNESS TO BLACK FROM CUSTOM LED BOARD.

USE THE THREE (3 OF 5) SUPPLIED ORANGE SPLICE CONNECTORS. PUSH THE TWO WIRES TO BE SPLICED TOGETHER INTO THE OPEN END. 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, SQUEEZE THE SPLICE CONNECTORS FIRMLY WITH PLIERS. VISUALLY INSPECT YOUR CONNECTIONS TO SEE THAT THEY HAVE BEEN SPLICED PROPERLY INSIDE.



18) LOCATE THE BLINKER WIRES ON THE MOTORCYCLE. IF YOU HAVE NOT REMOVED THE STOCK BLINKERS YET, YOU CAN SIMPLY FOLLOW THE WIRES. OTHERWISE THEY SHOULD HAVE A GREY AND A BLACK PLUG AS SHOWN IN THE PICTURE.

**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 ON THE FACTORY PLUG TO THE CUSTOM LED WIRES (RECOMMENDED).

**-OR-**

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

19) WHICHEVER ROUTE YOU DECIDE TO GO, YOU WILL NEED TO CONNECT THE 16" BROWN AND GREEN WIRES FROM THE CUSTOM LED TAIL AS FOLLOWS (VERIFY WIRE COLORS ARE CORRECT WITH VOLTMETER OR TEST LIGHT FIRST!):

- GREY PLUG GREEN/BROWN STRIPE BLINKER WIRE (+12V WHEN BLINKER ON) ON BIKE TO 16" GREEN WIRE FROM CUSTOM LED TAIL.
- BLACK PLUG GREEN/BROWN STRIPE BLINKER WIRE (+12V WHEN BLINKER ON) ON BIKE TO 16" BROWN WIRE FROM CUSTOM LED TAIL.

NOTES:

- A) BOTH THE LEFT SIDE AND RIGHT SIDE BLINKERS HAVE THE SAME GREEN/BROWN STRIPE WIRE, YOU MUST DIFFERENTIATE BETWEEN THE LEFT AND RIGHT BLINKER WIRES BY THE COLOR OF THE PLUG – GREY AND BLACK.
- B) 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 (YELLOW). WE SUGGEST YOU TAPE IT OFF NEATLY.

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

**ENJOY!!**

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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."**