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## Boogey Lights® LED Engine Kit Installation Guide

### TOOLS YOU SHOULD HAVE TO DO THIS JOB:

- SCREWDRIVERS  
(FLAT AND PHILLIPS)
- WIRE STRIPERS
- WIRE CRIMPERS
- WRENCHES 10mm, 3/8" AND 7/16"
- ISOPROPAL ALCOHOL
- HEAT GUN OR BLOW DRYER

- 1) MAKE SURE BIKE IS **COOL** AND PARKED ON **A FLAT SECURE SURFACE**.
- 2) NEXT LOCATE THE BATTERY AND UNHOOK **THE BATTERY NEGATIVE (-) CABLE**. (REMOVE SEAT OR SIDE COVERS AS NEEDED TO GAIN ACCESS TO THIS AREA).

\*\*\*\*\* **SAFETY CAUTION!** \*\*\*\*\*

**NEGATIVE (-) BATTERY CABLE SHOULD BE UNHOOKED FIRST TO AVOID FIRE HAZARD!**

**ALSO, BE SURE IT DOES NOT TOUCH THE POSITIVE TERMINAL ON BATTERY AFTER YOU UNHOOK IT!**

- 3) THE LED **LIGHTS ARE POLARITY SENSITIVE**. WHICH MEANS THAT THE **POSITIVE WIRES** (red wire or **NEGATIVE/BLACK WIRE with white stripe, depending on LED pod style**) are connected to the light pod MUST BE HOOKED TO THE **POSITIVE (+) TERMINAL** AND **NEGATIVE/BLACK WIRE TO GROUND (-)**. ALSO, LED UNITS **CANNOT BE RUN IN SERIES**. THAT MEANS. ALL **POSITIVE WIRES** MUST GO TO A COMMON POWER WIRE AND ALL **NEGATIVE/BLACK WIRES** MUST GO TO A COMMON GROUND (SEE DIAGRAM ON REVERSE SIDE).

\*\*\*NOTE\*\*\*

**YOU CANNOT RUN THE WIRES FROM ONE UNIT TO THE NEXT IN A LOOP TYPE FASHION.**

- 4) NEXT, PICK A HIDDEN, FLAT SURFACE TO MOUNT THE SWITCH. **REMEMBER YOU WILL NEED TO BE ABLE TO REACH THIS SWITCH WHEN SEAT IS ON THE BIKE, AND ALL SIDE COVERS ARE IN PLACE**. THE SWITCH WILL MOUNT LATER USING THE 2-SIDED TAPE. FOLLOW THE SAME CLEANING AND PREP INSTRUCTIONS AS WHEN MOUNTING THE LED UNITS IN STEP #6.
- 5) PICK A MOUNTING LOCATION FOR LED UNITS TO GIVE BEST OVERALL COVERAGE OF LIGHT FOR AREA CHOSEN.
- 6) WE RECOMMEND CLEANING BOTH THE LED AND MOUNTING AREA WITH ISOPROPAL ALCOHOL FIRST. NEXT, WIPE BOTH THE MOUNTING AREA AND LED UNIT (**THE SIDE AWAY FROM THE WIRES**) WITH THE ENCLOSED 3M AUTOMOTIVE PROMOTER. (TRY NOT TO GET THIS CHEMICAL ON YOUR FINGERS, AS IT ATTRACTS DIRT AND WILL REMAIN ON YOUR FINGERS FOR SEVERAL DAYS. USE A TWEEZER OR OTHER INSTRUMENT TO HOLD IT.)

CUT 2-SIDED TAPE TO FIT AND APPLY TO LED **ON SIDE AWAY FROM WIRES**. THEN REMOVE THE TAPE BACKING AND APPLY WITH FIRM PRESSURE TO PREPPED AREA.

\*\*\*NOTE\*\*\*

**MAKE SURE LED LIGHTS IN UNIT ARE POINTING IN DESIRED DIRECTION BEFORE YOU PRESS INTO PLACE.**

- 7) RUN ALL WIRES TO THE **"CENTRAL POINT"**. CUT OFF ANY EXTRA WIRE, MAKING SURE YOU LEAVE ENOUGH WIRE TO STRIP AND TWIST THE ENDS TOGETHER. STRIP ABOUT 1" OF INSULATION FROM THE ENDS OF EACH OF THE RED/STRIPED POSITIVE WIRE LEADS. TWIST THE POSITIVE WIRES TOGETHER AND SLIDE THEM INTO ONE OF THE LEVER-NUTS CONNECTOR SLOTS. MAKE SURE THE BARE WIRE IS NOT STRIPPED TOO FAR BACK OR IT WILL NOT ALL BE COVERED BY THE CONNECTOR. THIS CAN CAUSE A SHORT AND MALFUNCTION.

REPEAT THE SAME PROCEDURE FOR FOR THE **NEGATIVE/BLACK WIRE** GROUP, USING THE OTHER LEVER-NUTS CONNECTOR.

\*\*\*NOTE\*\*\*

**MAKE SURE YOU CONNECT THE POSITIVE WIRES FROM THE LED UNITS TO THE POSITIVE GROUP CONNECTOR AND THE NEGATIVE/BLACK WIRE FROM LED UNITS TO THE NEGATIVE GROUP CONNECTOR. FAILURE TO DO SO WILL RESULT IN IMPROPER POLARITY IN UNITS! THIS WILL NOT DAMAGE THE LEDS, BUT THEY WILL NOT WORK.**

- 8) NEXT, CONNECT ONE OF THE SWITCH WIRES TO THE LEVER-NUTS CONNECTOR FOR THE POSITIVE LEADS BY INSERTING IT INTO ONE OF THE UNUSED, OPEN CONNECTOR SLOTS. CLOSE THE CONNECTOR BY PRESSING THE CAGE CLAMP LEVER DOWN TIGHT TO LOCK THE CONNECTION.
- 9) NEXT, IF THE INLINE FUSE HOLDER HAS A SINGLE WIRE FORMING A LOOP, CUT IT IN THE MIDDLE, OR CLOSER TO ONE SIDE OF THE FUSE HOLDER, DEPENDING ON YOUR BATTERY SETUP. CRIMP A SPADE CONNECTOR ON THE END YOU PLAN TO CONNECT TO THE **BATTERY'S POSITIVE POST (+)** AND RUN OTHER END TO THE 2<sup>ND</sup> SWITCH WIRE. CONNECT THE SWITCH WIRE TO THE FUSE USING THE BLUE BUTT CONNECTOR. SLIDE THE HEAT SHRINK TUBING OVER WIRE PRIOR TO CRIMPING BUTT CONNECTOR ON BOTH ENDS. CRIMP AND COVER BUTT CONNECTOR WITH THE HEAT SHRINK TUBE AND SHRINK WITH HEAT GUN OR BLOW DRYER. FOR SAFETY, **DO NOT INSERT THE FUSE INTO THE FUSE HOLDER UNTIL THE VERY LAST STEP**.
- 10) MOUNT THE SWITCH TO THE MOUNTING LOCATION AS IN STEP #6.
- 11) STRIP ABOUT 1/2" OF INSULATION FROM ONE END OF THE 12" BLACK WIRE AND CRIMP A SPADE CONNECTOR ON ONE END. CONNECT IT TO THE **NEGATIVE BATTERY POST** OR TO SOME OTHER SUITABLE GROUND LOCATION. STRIP AND CONNECT THE OTHER END OF THE BLACK WIRE TO THE LEVER-NUT CONNECTOR HOLDING THE BLACK/NEGATIVE WIRES FROM THE LEDS.

RECONNECT THE BIKE'S **NEGATIVE (-) BATTERY CABLE** AT THIS TIME. INSERT THE FUSE INTO THE FUSE HOLDER, TURN ON THE SWITCH AND SEE THE SHOW!

- 12) **ALL LED UNITS 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 POLARITY OF THE UNIT BACKWARDS. RECHECK ALL WORK TO, AND FROM THAT UNIT. 99% OF THE TIME YOU WILL FIND IT IS ONE OF THESE TWO PROBLEMS THAT CAUSE THE LEDS NOT TO LIGHT. REVERSING THE POLARITY WILL NOT DAMAGE THE LIGHTS, THEY SIMPLY WON'T WORK.**

