



Cut N' Click Flexible LED Strips Installation Guide
with notes for installing our
Cut N' Click™ Ultimate Engine Kit

TOOLS YOU SHOULD HAVE TO DO THIS JOB
SCREWDRIVERS, (FLAT AND PHILLIPS)
WIRE STRIPERS & WIRE CRIMPERS
WRENCHS 10mm, 3/8" AND 7/16"
ISOPROPAL ALCOHOL AND RAG
HEAT GUN OR BLOW DRYER

****NOTE****

**WE RECOMMEND READING ALL THE INSTRUCTIONS
FROM START TO FINISH, BEFORE STARTING THE
INSTALLATION.**

- 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).

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

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

- 2) THE FLEXIBLE LED STRIPS **ARE POLARITY SENSITIVE**. WHICH MEANS THAT THE **RED WIRE** IN THE 39" WIRE CONNECTOR TO THE **FLEXIBLE LED STRIP** UNITS MUST BE CONNECTED TO THE **SWITCH** AND THE **BLACK WIRE** CONNECTS TO **GROUND** (THE **NEGATIVE SIDE (-) OF THE BATTERY**).
- 3) NEXT, PICK A LOCATION FOR 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**. WE SUGGEST YOU PLACE THE SWITCH ON THE LEFT SIDE OF THE BIKE BENEATH THE SEAT SO YOU CAN EASILY REACH IT WITHOUT HAVING TO REMOVE YOUR RIGHT HAND FROM THE THROTTLE. WHEN READY YOU WILL USE THE VHB TAPE AND PROMOTER PAD TO SECURE SWITCH INTO PLACE .
- 4) 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 SIZE STRIP CONTAINS 24 LEDS, OR (8) 3-LED SEGMENTS. YOU CAN CUT OFF SEGMENTS IN MULTIPLES OF 3-LEDS AT THE CUT LINES MARKED WITH THE SCISSORS ICON. ON MOST HARLEYS YOU WILL USE AN 18-LED SEGMENT UNDER THE RIGHT SIDE OF THE TANK AND A 21-LED SEGMENT UNDER THE LEFT SIDE. SO, YOU WILL CUT OFF A 6-LED SEGMENT FROM THE RIGHT SIDE STRIP AND A 3-LED SEGMENT FROM THE LEFT SIDE STRIP.

IF YOU HAVE PURCHASED OUR **ULTIMATE ENGINE KIT™** YOU WILL HAVE RECEIVED (2) 39-LED STRIPS, FOR A TOTAL OF 78 LEDS. THE RECOMMENDED PLACEMENT FOR THESE LIGHTS ON MOST HARLEYS IS AS FOLLOWS:

- CUT ONE OF THE 39-LED STRIPS INTO 2 PIECES, AN 18-LED STRIP AND A 21-LED STRIP.
- 18-LED STRIP MOUNTS ON THE "INSIDE TANK WALL" UNDER RIGHT SIDE OF TANK WITH THE LEDS FACING DOWN TOWARD THE ENGINE.
- 21-LED STRIP UNDER THE LEFT SIDE OF THE TANK.
- CUT THE FOLLOWING SEGMENTS FROM THE OTHER 39-LED STRIP:
 - o 6-LED STRIP FOR BEHIND THE HORN COVER.
 - o 6-LED STRIP BEHIND THE BREATHER ON THE BACKPLATE, SHINING DOWN.
 - o 9-LED STRIP FOR FRAME RAIL BENEATH SEAT ON TOURING FRAME, ON BOTTOM OF OIL TANK ON SOFTAIL FRAME, OR ON BACK OF BATTERY BOX ON THE DYNA WIDE GLIDE. IN ALL 3 OF THESE LOCATIONS THE LIGHTS ARE POSITIONED TO FACE FORWARD TOWARD THE REAR OF THE ENGINE.
 - o 18-LED STRIP ON THE RIGHT SIDE FRAME RAIL, TURNING EVERY OTHER LED TOWARD THE LEFT SIDE. LOCATE THESE GROUND EFFECT LIGHTS ON THE INSIDE OF EACH RAIL SO THE STRIP IS ABOVE THE BOTTOM OF THE RAIL.

NOTE: WHEN CUTTING THE CUT N' CLICK STRIPS, DO NOT CUT ON CUT LINES THAT ARE UP AGAINST ONE OF THE CONNECTORS, AS THIS WILL CAUSE THE CONNECTOR TO FAIL. IN THESE CASES, CUT ON THE OPPOSITE SIDE OF THE CONNECTOR WHERE YOU HAVE MORE SPACE BETWEEN THE CONNECTOR AND THE LED BESIDE IT. IT WILL NOT DAMAGE THE BOARD TO CUT IT ON THE SIDE OF THE CONNECTOR OPPOSITE THE CUT LINE.

- 5) CLEAN THE MOUNTING AREA WITH ISOPROPAL ALCOHOL OR LAQUER THINNER. NEXT, WIPE THE MOUNTING AREAS WITH THE SUPPLIED 3M PROMOTER PAD. APPLY 2-SIDED VHB TAPE TO THE BOTTOM OF THE SWITCH. CUT TO FIT.
- 6) PLUG IN ALL THE CONNECTOR WIRES INTO THE STRIP THAT YOU WILL LOCATE UNDER THE LEFT SIDE OF THE TANK. THIS INCLUDES THE 16" POWER LEADS WHICH YOU WILL RUN BACK UNDER THE SEAT FOR CONNECTION TO YOUR SWITCH, A 15" WIRES WHICH FROM EACH TANK STRIP DOWN TO THE 6-LED STRIPS LOCATED BEHIND THE HORN COVER AND BREATHER

**** NOTE ****

PLUG ALL WIRES INTO THE STRIPS BEFORE YOU ATTACH THE STRIPS TO THE MOUNTING LOCATION. FAILURE TO DO SO WILL MAKE IT EXTREMELY DIFFICULT TO PLUG THEM IN AFTER ATTACHING THE STRIPS!

AFTER CONNECTING ALL THE WIRES TO EACH STRIP, REMOVE THE TAPE BACKING FROM AND APPLY THE **FLEXIBLE LED STRIP** TO THE PREPPED AREA WITH A FIRM PRESSURE. **DO NOT PUSH SO HARD THAT YOU BREAK OFF A CONNECTOR OR SOME OF THE LEDS!** 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 IN POSITION. CONTINUE TO PEEL IT OFF AND PRESS AS YOU GO TO ENSURE THAT THE TAPE DOESN'T STICK PREMATURELY IN THE WRONG PLACE.

REPEAT FOR EACH OF YOUR STRIPS WITH THE WIRES CONNECTED PRIOR TO STICKING THEM IN PLACE.

***NOTE*MAKE SURE FLEXIBLE LED STRIP LIGHTS ARE POINTING IN THE DESIRED DIRECTION BEFORE PRESSING THEM INTO PLACE! AS THE VHB TAPE IS VERY STRONG, AND ANY ATTEMPT TO MOVE THE OR REPOSITION THE FLEXIBLE LED STRIPS AFTER INSTALLED CAN RESULT IN DAMAGE TO STRIPS AND VOID YOUR WARRANTY.**

**INSTALLATION TIP:
EACH KIT COMES WITH SMALL WIRE TIES. AS NO TWO KITS WILL BE INSTALLED THE SAME OR, ON THE SAME YEAR OR MODEL VEHICLE. IT IS IMPOSSIBLE FOR US TO TELL YOU WHERE EACH TIE SHOULD GO. USE WIRE TIES TO HOLD WIRES IN PLACE TO KEEP THEM OUT OF THE WAY AS NEEDED.**

- 7) CLICK THE CONNECTOR INTO THE 6-LED STRIP AND MOUNT THE STRIP. FINALLY, DROP THE 3RD POWER LEAD DOWN FROM UNDER YOUR SEAT TO THE LIGHT THAT YOU'LL PLACE ON THE BOTTOM OF YOUR OIL TANK FACING FORWARD, OR ON THE TOURING FRAME RIDGE DIRECTLY ABOVE THE STARTER. ON A DYNA PLACE THE REAR STRIP ON THE INSIDE OF THE BATTERY BOX AT A 45 DEGREE ANGLE POINTING DOWNWARD. FROM AN OPEN CONNECTOR ON THE STRIP, RUN THE 39" POWER LEAD TO THE STRIP ON THE FRAME RAIL BENEATH THE ENGINE AND CONNECT THE LEADS UNDER THE SEAT WITH THE POWER LEADS FROM THE TANK LIGHTS.

IMPORTANT NOTE! IF YOU ARE USING A REMOTE CONTROL SWITCH, PLEASE REFER TO THE WIRING DIAGRAM PROVIDED WITH THE REMOTE CONTROL. SOME REMOTES SWITCH ON & OFF THE NEGATIVE SIDE OF THE WIRE LEADS, RATHER THAN THE POSITIVE SIDE AS DESCRIBED BELOW.

- 8) CONNECT THE 3 RED/POSITIVE WIRES FROM THE 3 POWER LEADS TOGETHER USING ONE OF THE PROVIDED LEVER-NUTS™ CONNECTORS (SEE WIRING DIAGRAM TO RIGHT). ALSO, CONNECT ONE OF THE SWITCH WIRES INTO THE RED/POSITIVE WIRE CONNECTOR.
- 9) CONNECT THE 3 BLACK WIRES USING THE OTHER LEVER-NUTS CONNECTOR. CONNECT ONE END OF THE PROVIDED 12" BLACK GROUND WIRE TO THE BLACK WIRE CONNECTOR. (FOR BEST RESULTS 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 WIRES END. ATTACH THE SPADE CONNECTOR TO THE GROUND POINT.

FOR ADDITIONAL INFORMATION ON THE INSTALLATION OF OUR LED STEP OR COURTESY LIGHT FIXTURES, PLEASE REVIEW OUR INSTALLATION VIDEOS AT [HTTP://BOOGEYLIGHTS.TV](http://BOOGEYLIGHTS.TV). YOU WILL ALSO FIND LARGER IMAGES OF THE WIRING DIAGRAMS AT [HTTP://BOOGEY.COM/INSTRUCTIONS.HTM](http://BOOGEY.COM/INSTRUCTIONS.HTM).

- 9) **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 CRIP SPADE CONNECTOR ONTO THE WIRE WHERE IT MEETS THE BATTERY. AFTER CRIMPING ON THE CONNECTOR, ATTACH THIS SPADE CONNECTOR ONTO **THE POSITIVE BATTERY (+) POST.** **DO NOT INSTALL FUSE AT THIS TIME.**

*******SAFETY CAUTION!*****
NEVER RUN A HIGER THAN SUPPLIED FUSE IN SYSTEM! UNIT DAMAGE OR FIRE HAZARD CAN RESULT! WE USE A 3 AMP MINI-BLADE FUSE.**

- 10) CONNECT THE REMAINING LEAD FROM FUSE HOLDER TO REMAINING 12" LEAD FROM THE SWITCH. AS BEFORE. STRIP, BUTT CONNECT AND HEAT SHRINK THESE LEADS. INSTALL FUSE IN HOLDER.

11) **TURN ON THE SWITCH AND ENJOY THE SHOW!**

12) **ALL 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 POLARITY OF THE UNIT BACKWARDS.** RECHECK ALL WORK TO, AND FROM THAT UNIT. **YOU WILL FIND THAT 99.9% OF THE TIME IT IS ONE OF THESE TWO THINGS.**

WIRING DIAGRAMS

