

Custom Dynamics Ultimate LED Boat Accent Light Installation Kit

Contents

- 4 3M Adhesion Promoter-Sponge Applicator Packet
- 4 Alcohol pad
- 10 15" Tie wraps 8 Pieces 3M Heat Shrink Tubing
- 1 Roll 3M Tape
- Weather Proof Push Button Switch
- Fuse Holder
- 3amp (Level 1) or 5amp (Level 2) Fuse
- 1 Blue Butt Connector
- 1' Black 12gauge Wire
- 2 Heat Shrinkable insulated spade terminals
- 2 3 Position Cage Clamp® Connectors
- 15' 2 Conductor 22 Gauge Wire

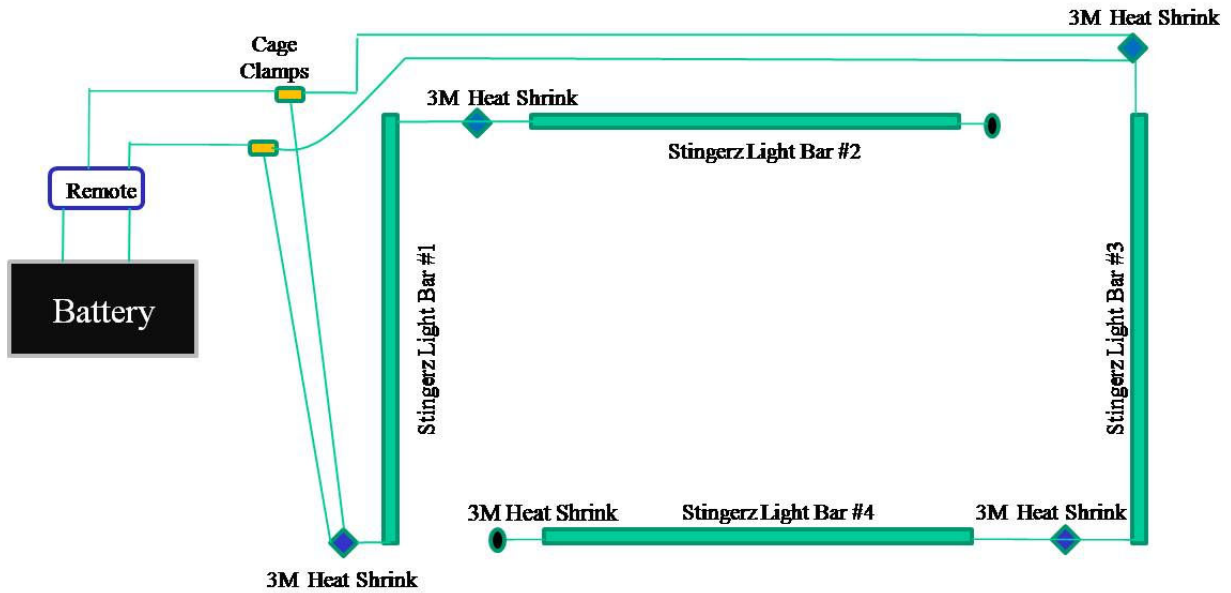
Tools Needed

- Screwdriver (flat and Philips)
- Wire Cutters
- Wire Strippers
- Wire Crimpers
- Heat gun or blow dryer
- Open End Wrenches
- Razor Blade Cutting Tool

1. Always wear appropriate safety gear including safety glasses when soldering or performing any electrical work. It is highly recommended that safety glasses be worn throughout this installation process. Temperature of vehicle must be at least 60 degrees F. for tape to properly cure. Read all directions before starting project.
2. Select hidden locations to mount LED Accent Lights to provide best coverage. On boats this is typically under the upper lip of the side bay/storage compartments.
3. Clean mounting locations on boat with alcohol pads, allow to dry then clean with 3M promoter pads, allow to dry.
4. Carefully remove backing from double sided tape and place light on selected mounting location. Press firmly and hold for 10 seconds. Repeat for all lights to be mounted on boat.
5. Connect light bar #1 to light bar #2 using 3M shrink tubing. Repeat process to connect Light Bar #3 to Light Bar #4. Repeat process for all Light Bars in Kit. Do not daisy chain more than 4 Light bars on one run. Stingerz can be cut every 3 LED, if you need to trim off an end or to cut one bar in half, cut at an increment of 3 LEDs, then reseal with a marine epoxy or Goop (Home Depot or Custom Dynamics). To use 3M shrink tubing, strip wires, cut and slide small piece of shrink tubing over one end of wire, twist wires together, it is not necessary to solder them, slide shrink tubing over wires, heat with heat gun or hair dryer. This heat shrink tubing has a special glue that will melt and form a water-proof seal.
6. Cut and cap excess wires off far end of the last light bar in each run. Slide one small piece of 3M heat shrink tubing over black and one over red, heat with heat gun and pinch end closed.
7. If necessary, extend wires off end of Light Bar #1 and #3 using 3M heat shrink tubing such that they extend back to battery compartment of boat. Route wires such that they not interfere with normal operation of boat.
8. Select several locations to secure all wires to boat. Secure wires using tie wraps provided.
9. Connect Black wires to one Cage Clamp Connector, this will be the negative cage clamp. Connect Color Wires to other Cage Clamp Connector, we will call this the positive cage clamp.
10. Select mounting location for remote control box near battery, secure remote control box with 3M tape and/or tie wraps. If remote control is not being used, jump to step 20.
11. Remove fuse from remote control fuse holder.
12. Connect White wire from remote control to Cage Clamp with Color Wire.
13. Connect Green wire to Cage Clamp with Black Wire.
14. Connect Red wire from remote control to + side of battery using spade terminal.
15. Connect Black wire from remote control to - side of battery or ground using spade terminal.
16. Heat spade terminals with heat gun so that insulation shrinks around wire.
17. Secure any remaining wires with tie wraps.
18. Place fuse in fuse holder and replace cover.
19. Turn on switch and check operation of all lights. Allow double-sided tape to bond for 72 hours before exposing to water. Enjoy your lights.
20. Select location and mount push button switch. Connect one end of switch to positive cage clamp connector.
21. Join other end of switch wire to fuse using blue butt connector. Heat blue butt connector with heat gun or hair dryer so that it shrinks around wire.
22. Connect remaining end of fuse wire to + side of battery using spade terminal.
23. Using supplied black wire, connect negative cage clamp to negative side of battery using spade terminal.
24. Heat spade terminals with heat gun so that insulation shrinks around wire.
25. Secure any remaining wires with tie wraps.
26. Place fuse in fuse holder and replace cover.
27. Turn on switch and check operation of all lights. Allow double-sided tape to bond for 72 hours before exposing to water. Enjoy your lights.

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Block Diagram



Cage Clamp Instructions



Open the clamping point using one of the small orange colored levers so that the lever engages and keeps the clamping point in its opened position.

The stripped wire can then be inserted into the clamping unit. When this is accomplished, the lever should be returned to its closed position flush with the terminal block housing. This reliably prevents accidental unclamping of a connected wire.



Strip wire 9 - 10 mm. Use the stripped wire gauge on the back of the connector to verify correct strip length.



Connection: Push up lever and insert conductor . . .



. . . then push down lever to its closed