

# VoodooFx

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 www.voodooFx.com  
 650-568-3400

(Galactica Light Kit 1)

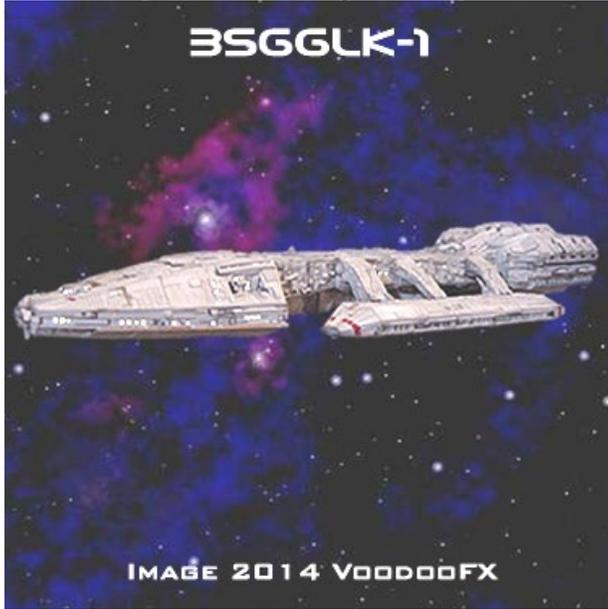
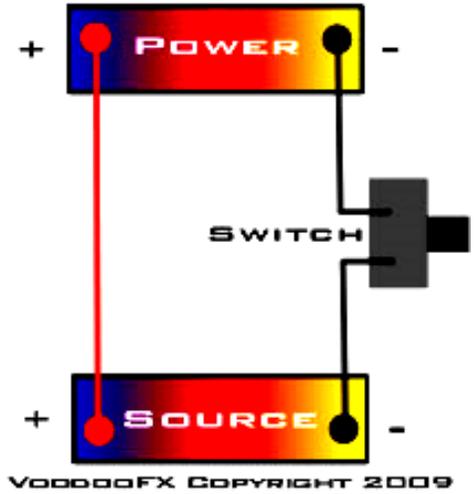


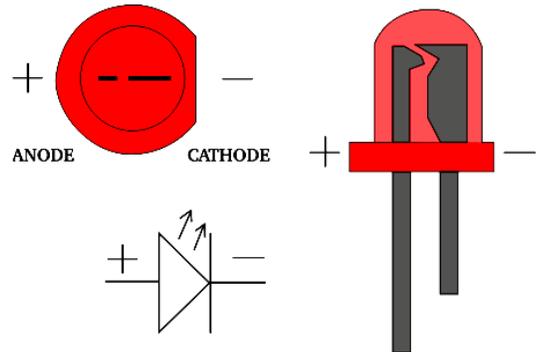
IMAGE 2014 VODOOFX

(BSGLK-1)

SWITCH DIAGRAM 1-A



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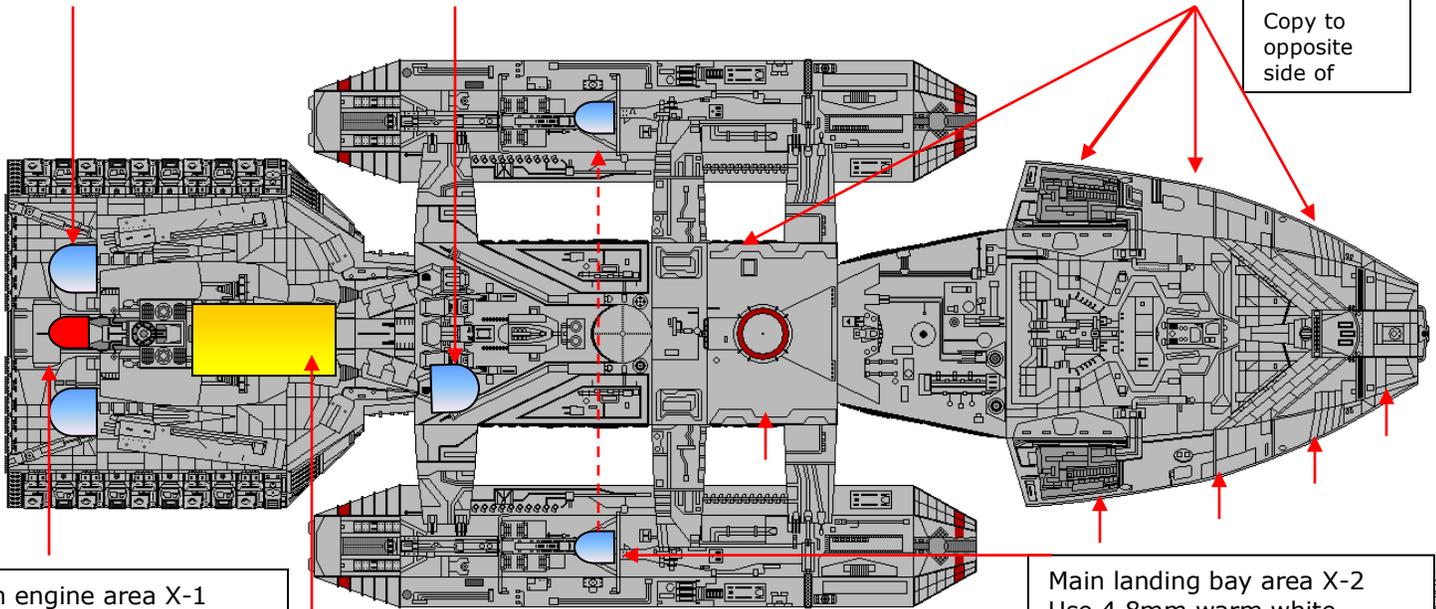


Main engine area X-2  
 Use 4.8mm white  
 Use 220-ohm resistor on circuit board  
 Cut clear diffusion material to fit  
 Wire length cut to fit

Main window area fiber optic can  
 Use 5.0 or 4.8mm warm white  
 Use 1.5 K resistor on circuit board  
 Cut to fit fiber optic lighting in desired areas.

Fiber optic lighting areas, Use reference form the internet and DVD screen grabs for accurate placement, If you need to add more fibers build a secondary can set up.

Copy to opposite side of



Main engine area X-1  
 Use 4.8mm red  
 Use 220-onm resistor on circuit board  
 Wire length cut to fit

Circuit board

Main landing bay area X-2  
 Use 4.8mm warm white  
 Use 1.5K-onm resistor on circuit board. Point downwards.  
 Wire length cut to fit

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**(General Instructions) Ver 1**

First start by figuring out what areas you would like to light and study the circuit board diagrams. Since there are many different ways to place the lighting you will need to pick and choose the areas that work the best for you. In any area that you are trying to light, you should be aware of a few basic guidelines to follow. 1-Pick Placement Area 2- Pre Test Lighting Effect 3- Light Block Where Needed. You will need a few tools to hook up the electronics, low watt 25-30 watt soldering iron with a pin needle tip, .032 rosin core solder, small wire strippers, small side cutters, lighter, hot glue, metal tape, wire ties. If using this for a model or prop pick the location for the power source and on/off switch, figure out what area or zones you will be lighting, pre build 1 led and pick the effects port you want, test the light effect in the zone. You might need to use diffusion material to flatten the affect; this helps take away any hot spots from the leds. If you want to add more on lighting you can go direct to the power source and use in line resistor technique, look at the diagram. After finding that perfect spot for the led you will need to mount it in place, Hot Glue in small amounts makes a great bond to most surfaces, a small hand made type bracket or holder is also another sound mounting system. After all the leds are in their locations test the circuit for operation, make any adjustment at this time, mount circuit board and power source in a accessible area that can be serviced. In all areas where you place electronic parts it is a good practice to not close off areas permanently. Clean up any loose wiring and run the electronics, if the model or prop is not being used for extended periods of time, remove batteries or unplug power source.

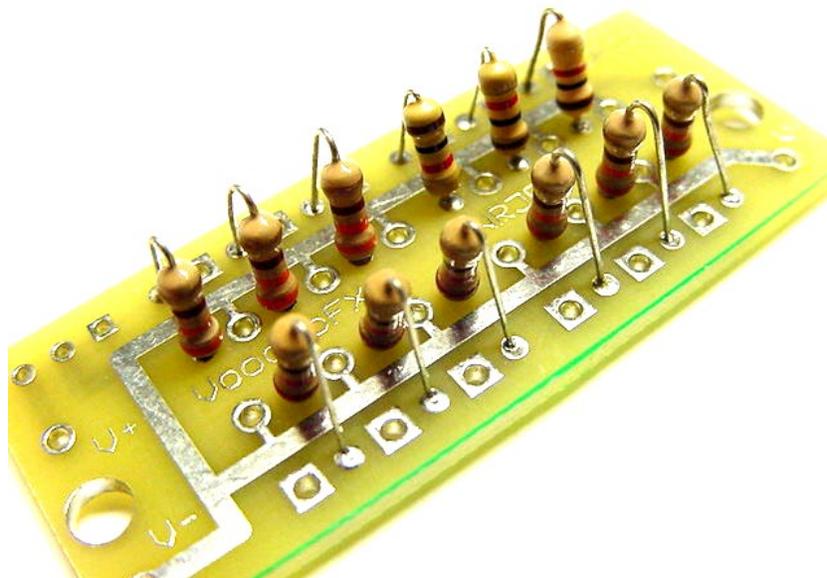
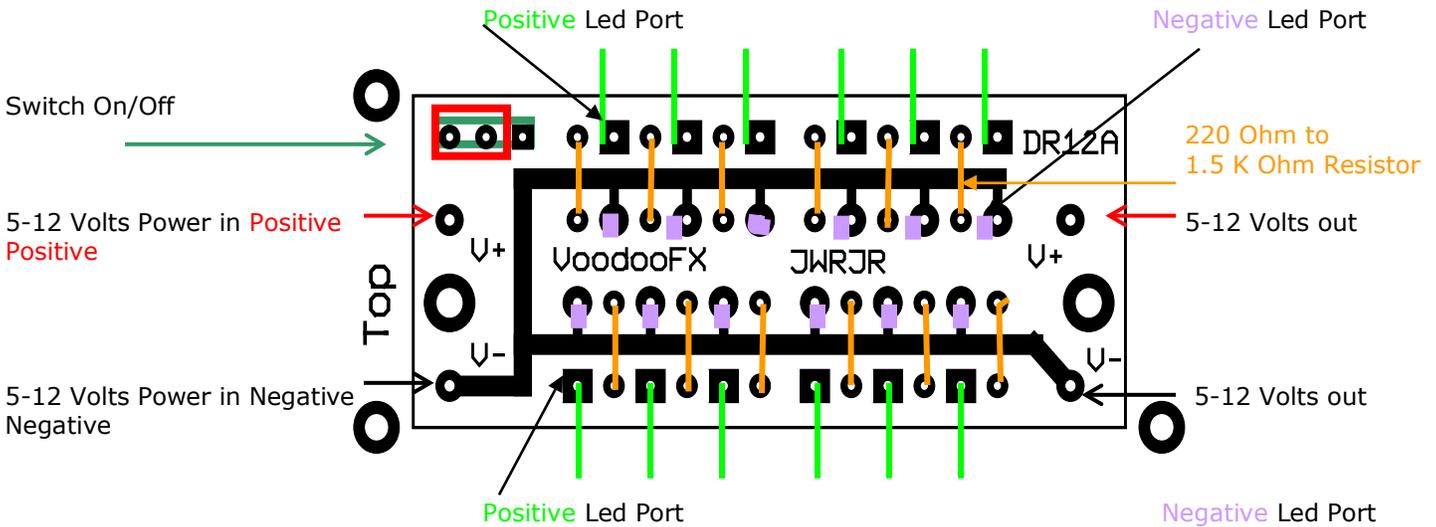
**(General Circuit Board Information)**

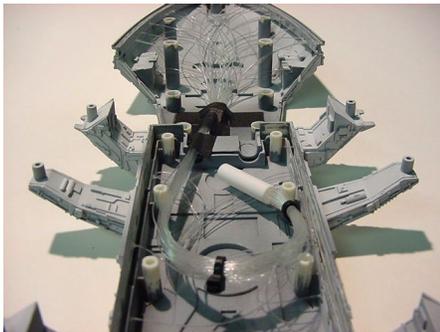
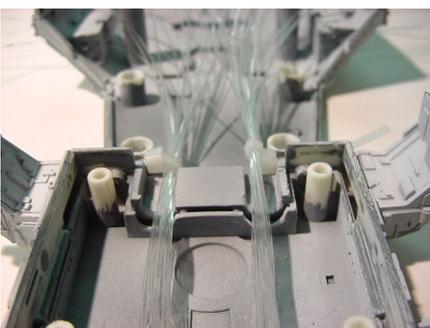
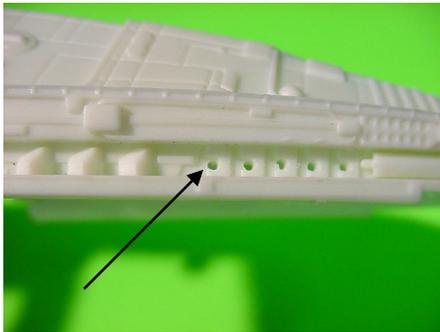
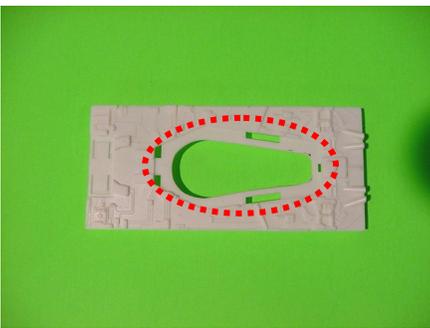
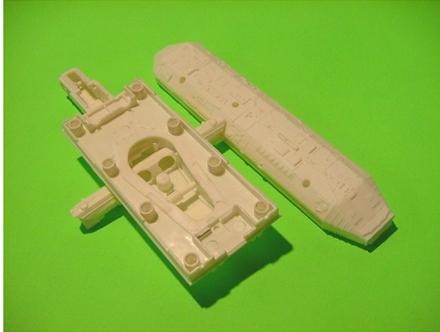
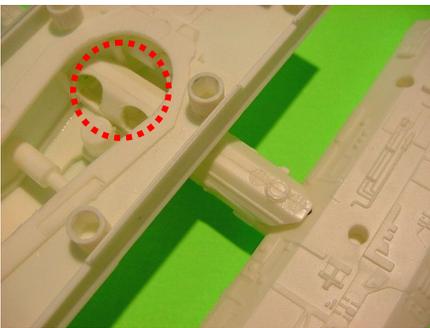
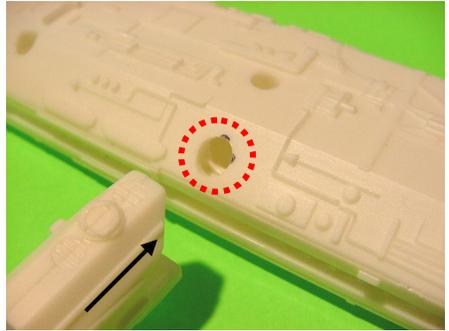
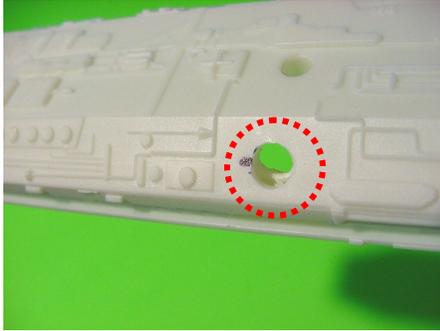
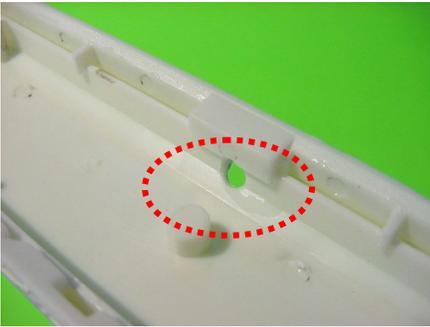
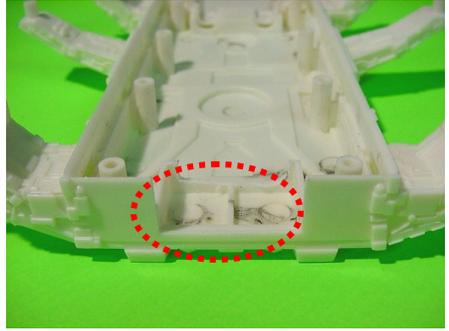
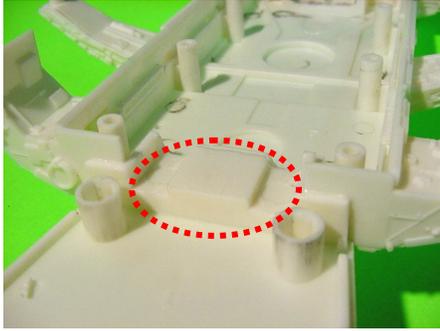
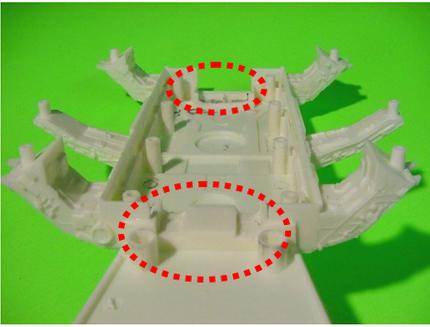
Studying Circuit Board Diagram-1, the main 9-volt power pads are marked as V- V+. The box high lighted indicates led posts 1-12 for the led lighting effects. Pay attention to the positive and negative sides of the pads, (SQUARE PAD IS +) (CIRCLE PAD IS-) The area marked SW stands for switch or remote on /off switch, pre wire the switch and mount in desired area when project is completed.

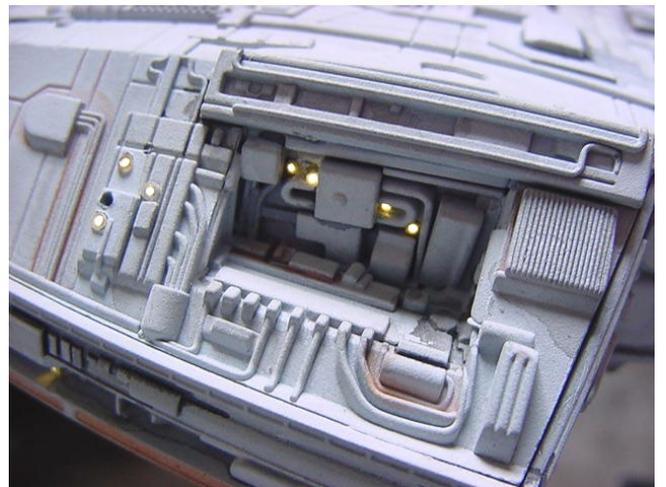
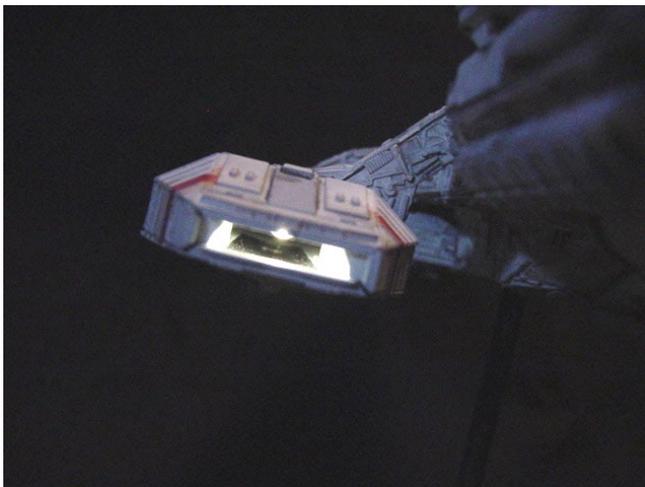
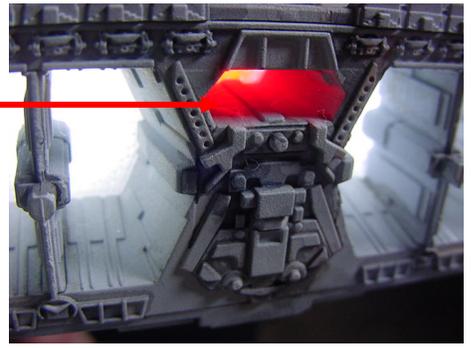
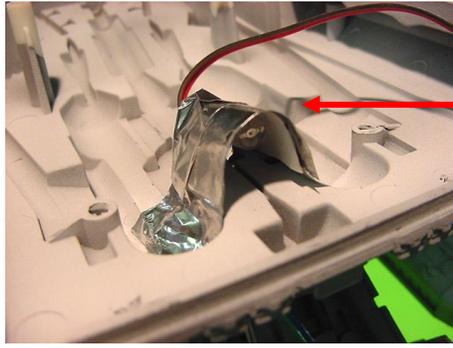
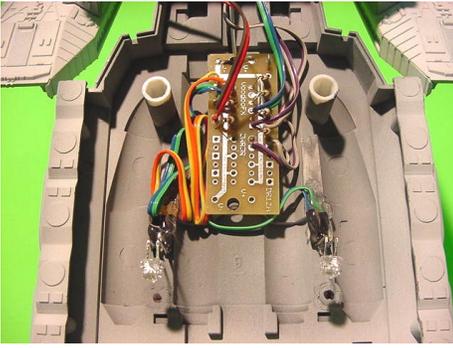
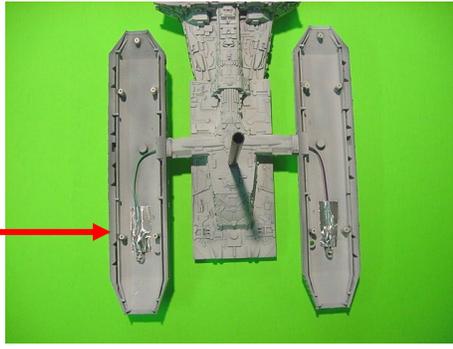
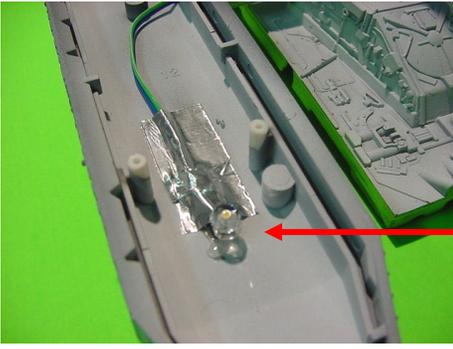
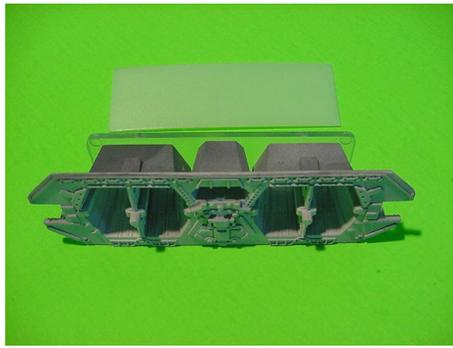
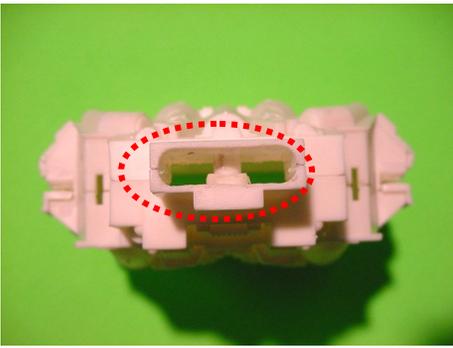
**(For bright led effects use : 220 Ohm Resistor) (For Dimmer led effects use : 1.5K Ohm Resistor)**

**(Circuit Board Diagram)**

**(12 Port Driver Board)**



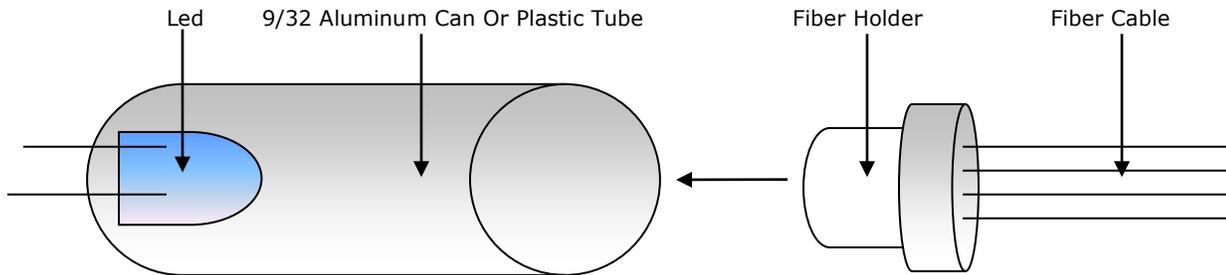




### (Fiber Optic Can Set Up)

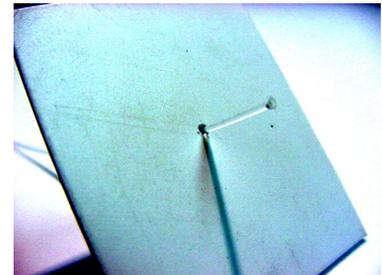
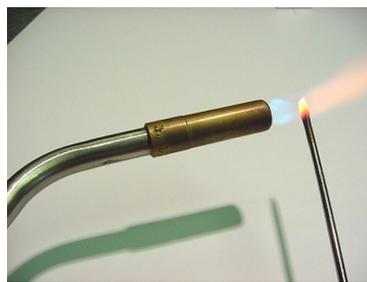
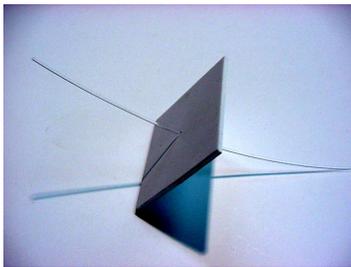
- 1- Start buy pre fabricating led on wire leads.
- 2- Slide led and wire through aluminum can and mount led on bottom side of can.  
Use a small amount of hot glue to attach it to the can, make sure to center led dead for strongest lighting effect.
- 3- Insert fiber through fiber holder and let fiber optic cable run long through holder.
- 4- Hold fiber optic cable in a tight bundle and cut evenly with a pair of scissors.
- 5- Hold bundle in tight circle and hot melt the end of the fiber together. Use a flat blade screwdriver and heat it up with a torch, make a fast pass of the fiber optic you only want to fuse it not over melt it.
- 6- Slide fiber holder into led can and move/ focus fibers in and out for best lighting effect.

(Building fiber optic led can)



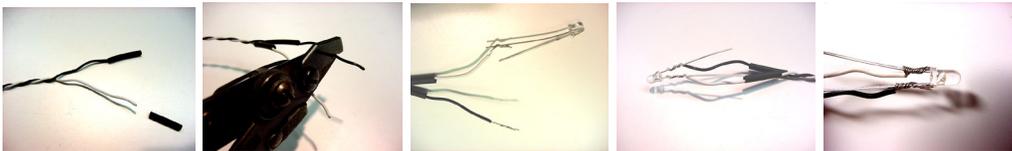
### Fiber Optic Install

Drill out and fit areas for fiber-optics, this is also 100% customer preference. Use a micro bit and drill out locations. When you all drilled out put fibers through the pre drilled wholes and hot melt top of fiber. Heat up a flat blade screw driver and quickly touch it to the end of the fiber. You want the fiber to be slightly mushroomed. Pull fiber back against surface until flush. Use a small amount of clear silicone on the back side of the fiber and surface wall, this prevents the fiber from pulling out.



### (How to Make a Wired Led)

- 1- Separate the two wires. Pick what color will be positive+ and what color will be negative-.  
(Example) Lighter color is positive+, darker color is negative-. This will apply to any color, you make the choice.
- 2- Slide on two pieces of shrink tubing 1/8 - 1/4 "long, Slide past area where wire coating will be stripped off.
- 3- Strip back the protected coating and expose the bare wire, 1/8 - 1/4" is about enough to wrap around the led leads. Twist bare wire together until it is a tight, stray wire or fray will get in your way later, the tighter the better.
- 4- Wrap wire around led leads and slide forward to led base. Solder and cut off excess leads.
- 5- Slide shrink tubing over soldered wire and led, heat shrink tubing to finish process.



### Please Do Not Contact Distributor

If you are having problems call VoodooFX.

Phone 650-568-3400 M/F 8-5 pm P.S.T

Email [fxshop@yahoo.com](mailto:fxshop@yahoo.com)

VoodooFX is not responsible for improper installation. There are no refunds on electrical parts or components. All sales are final. Batteries not included.

**WARNING:** To guard against injury, basic safety precautions should be observed, including the following: 1. Read and follow ALL safety warnings, instructions and notices. 2. Do not use equipment for other than its intended purpose. 3. Do not alter design or construction. 4. **DANGER:** To prevent the risk of severe or fatal electrical shock. Always disconnect power before performing any maintenance. 5. Do not operate if power cord or plug is damaged.

6. Electrical power supplied MUST match power requirements listed. 7. **CAUTION:** Do not operate without proper electrical ground.

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