

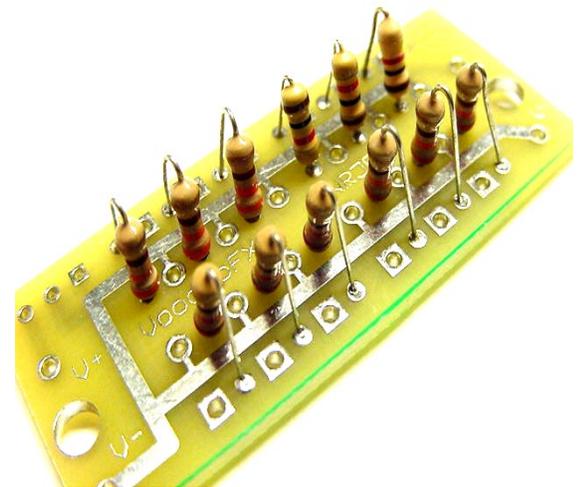
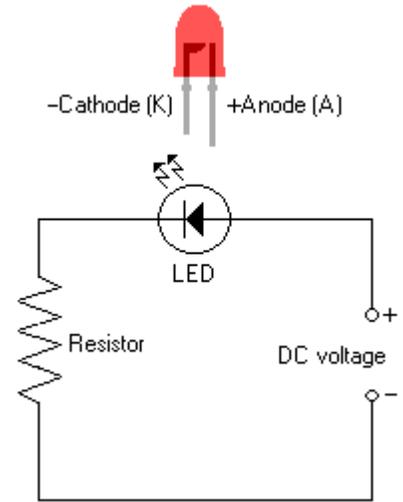
VooDooFX

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SWT65LK-1



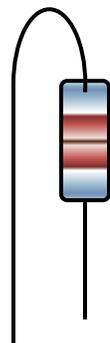
General Led Circuit



Instructions: Over View

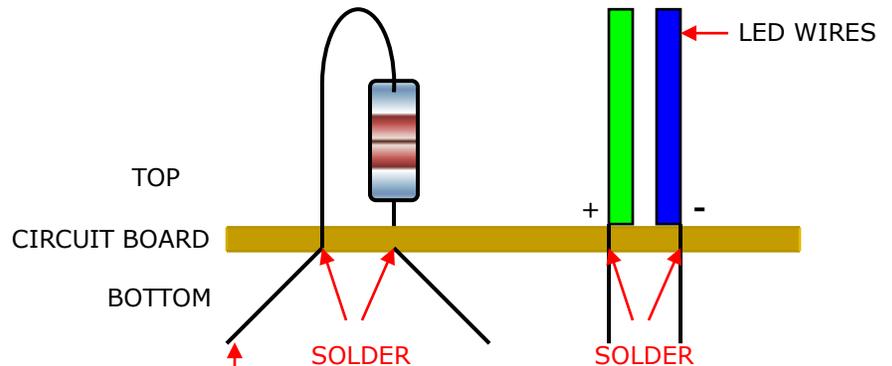
- 1- Start by getting familiar with the circuit board and led ports.
- 2- There are six led ports on this board note the positive & negative sides.
- 3- This where you will put the pre made leds on wire through the ports.
- 4- The engine lights will be all prefabricated and installed one at a time.
- 5- The interior cock pit light & R2 light will be mounted on the upper half of the ship.
- 6- Circuit board will be placed in the lower back section of the model.
- 7- You will also need to run one power wire to a 9 volt battery supply.
- 8- Solder experience is required to build this kit.
- 9- Study diagram below on how to make up resistor and put through board.
- 10- Please read all instructions before starting the lighting kit.

PRE BEND RESISTORS LIKE THIS



CUT OFF EXTRA WIRE FLUSH WITH BOARD

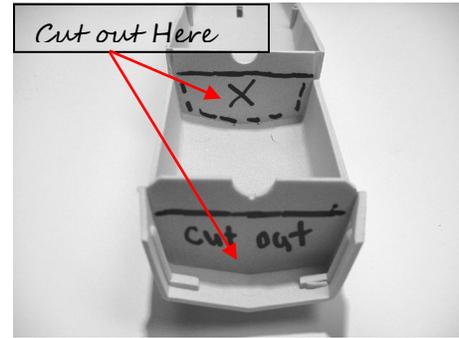
SOLDER THROUGH BOARD LIKE THIS



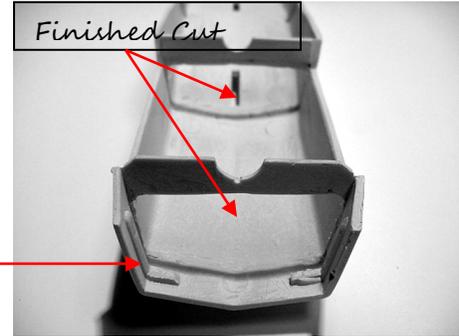
Instructions: Ver#1

Step 1

- 1- Start by familiarizing yourself with all the model parts.
- 2- Locate the lower half of the main body.
- 3- Start by cutting the two main support areas that hold the wings in place. The area is located a little below the main support shaft, remove this area only.

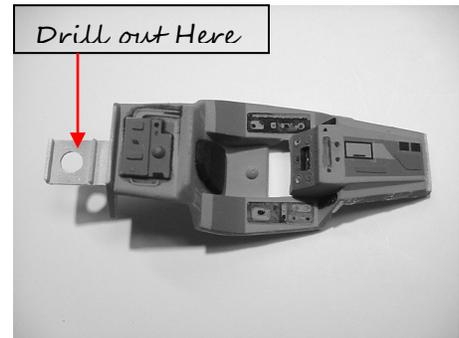


- 4- This is the finished cut out of the lower half of the main body.
- 5- (Note) Make sure not to sand off tabs on back area, this will be used to hold the back panel in place on the finished model.



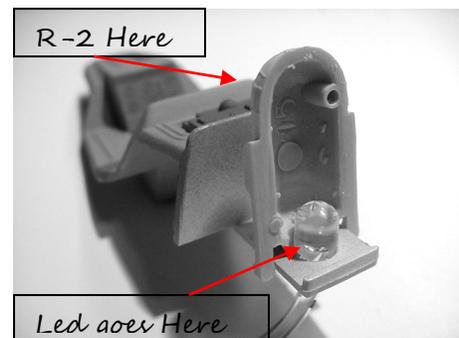
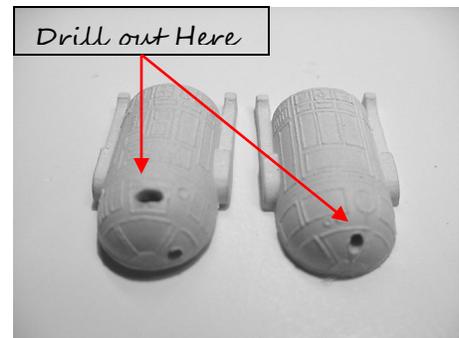
Step 2

- 1- Locate the main cockpit and the R-2 unit.
- 2- Drill a small pilot hole in the center of the R-2 resting platform.
- 3- Drill out with small drill bit working your way to a larger drill bit until it is large enough to fit a 5mm led through the bottom of the platform. A snug fit is preferred



Step 3

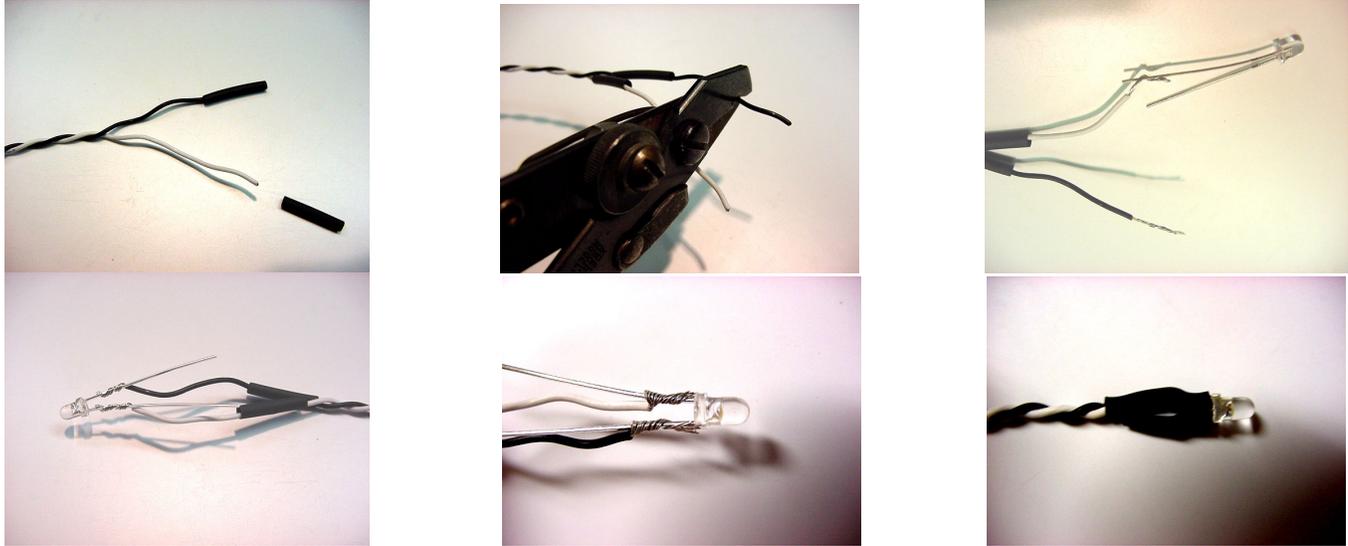
- 1- Locate the R-2 unit and pick location you would like to see the light.
- 2- Drill out small holes for button lights and a large oval in main dome to give the effect of the main eye.
- 3- Paint both inside and out side of R-2 to prevent light leak. The inside should be painted flat white to produce the brightest effect.
- 4- Drill out the bottom of the R-2 big enough to fit the 5mm led inside the R-2.



Step 4

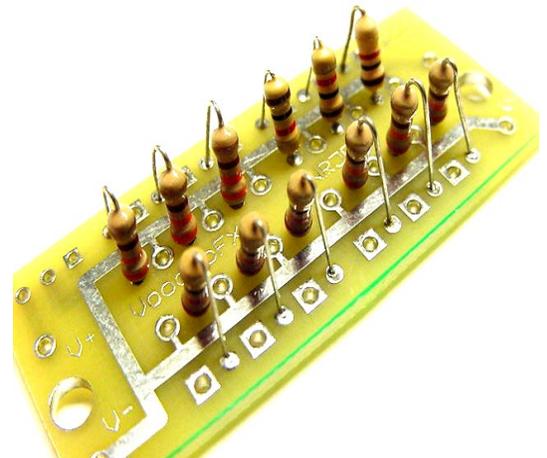
(How to Make a Wired Led)

- 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-.
- 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.



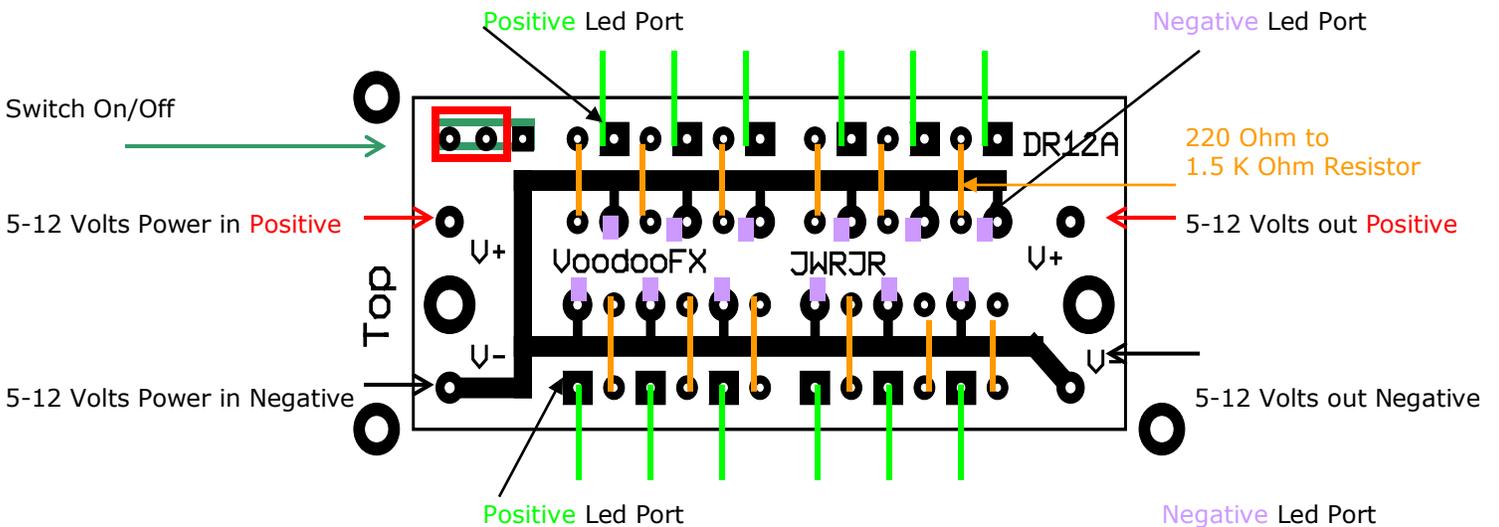
Step 5

- 1- Start by first making up all six pre wired leds.
- 2- Take the ribbon cable and strip two wires off at a time.
- You will need two wires per led at 12" each.
- 3- Make up the four led engine lights first.
- 4- Make up the two leds for the cockpit & R-2 unit next.
- 5- You will need to decide what color wire will be Positive & Negative.
- 6- Make sure to locate the Positive & Negative leads on the leds before soldering.
- Leds are polarity sensitive and will only work one way.
- 7- Please look at diagram below. The circuit board power ports are where you will solder the prefabricated wire & led to circuit board.
- This step will be used at the end of the build.



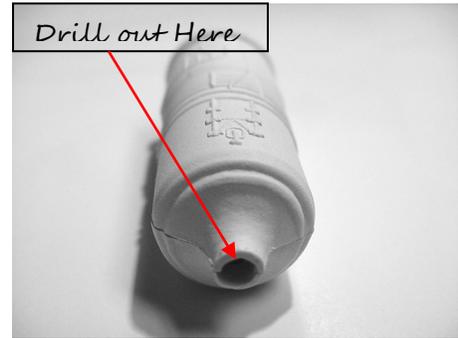
(Circuit Board Diagram)

(12 Port Driver Board)



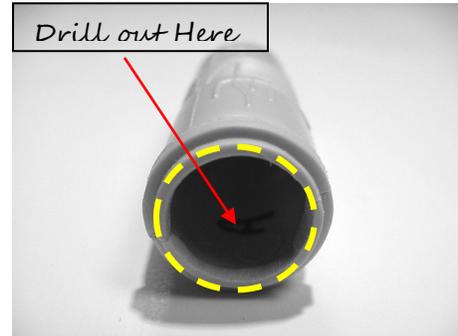
Step 6

- 1- Start by familiarizing your self with all the model parts.
 - 2- Locate all the parts for the four engine pods.
 - 3- Start by cutting off the very tip of the front half of the engine.
- You won't need to cut too much, only enough to fit the wire through.



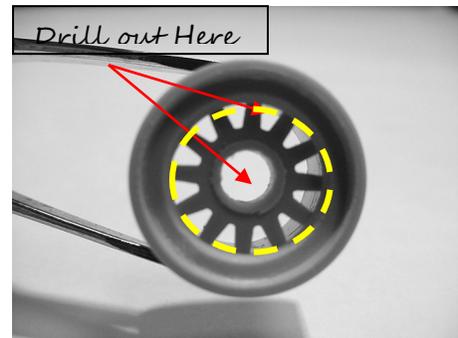
Step 7

- 1- Start by grinding out the two halves of the rear engine pod.
- 2- You need to leave the inner ring intact for the rear thruster outlet.
- 3- Repeat process until all four engine pods are drilled out.



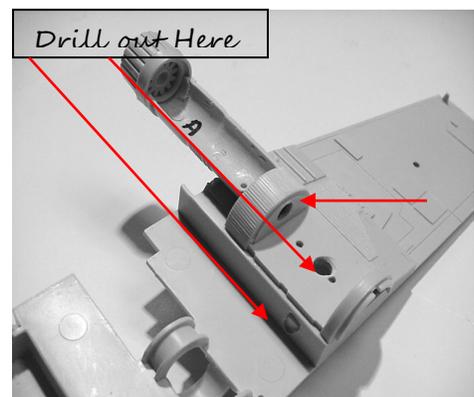
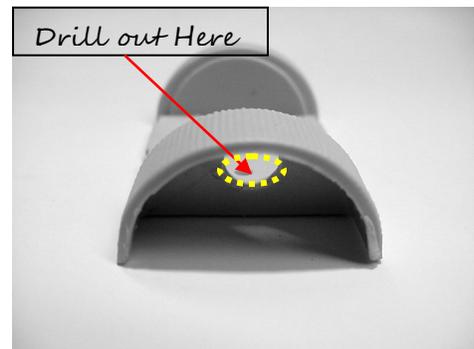
Step 8

- 1- Drill out the center of the rear thruster outlets.
 - 2- Start with a small pilot hole dead center of rear thruster housing.
 - 3- Drill out with small drill bit working your way up to a larger drill bit.
 - 4- (Note) you need to leave a small amount of plastic around the inside of the thruster housing to support the inner impeller fan blade.
 - 5- Cut the cone part of the center of the impeller and drill a hole through the center of the impeller fan, this gives it the studio look.
 - 6- Repeat process until all four engine thrusters & impeller are drilled out.
- (Note) Take your time with this step; this will be the finish part.



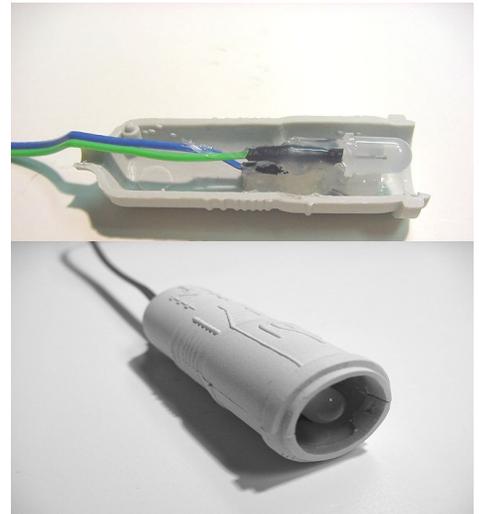
Step 9

- 1- Drill out main motor intake area where the engine pod meets the intake.
- 2- Make one small hole at the top of the main motor housing.
- 3- You will need to make a small hole in the main motor housing to transfer the wire through the wing area. The wire will be hidden under the inside of the engine parts mounted on the inside of the wing.



Step 10

- 1- Take your four engine pods and primer & paint. Make sure to paint the inside of the engine pod to prevent light leak.
- 2- Install your prefabricated red leds into one half of the engine pod.
- 3- Start by finding the location where you want to mount the led.
- 4- It should sit dead center of the thruster outlet. It sits about 3/16" behind the thruster outlet. Use a small amount of hot glue to mount.
- 5- Close up the two halves of the engine pods, be careful not to pinch wires.
- 6- Repeat process until all four engine pods are pre built.



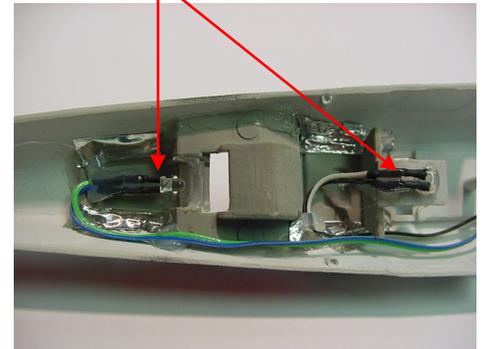
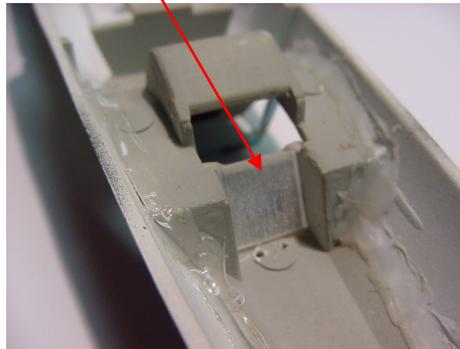
Step 11

- 1- Locate the cockpit, mark out an area in the center of the forward viewer.
- 2- Cut out a small square in the middle of the forward viewer.
- 3- Once the opening is made, take the small piece of clear plastic included in the kit and cut it to fit the back side of the viewer.
- 4- Scuff one side of the clear plastic and mount it on the back side of the viewer.
- 5- Mount the 3 mm green led in the center behind the viewer.
- 6- You might want to install the R-2 light at this time as well.

Cut out Here

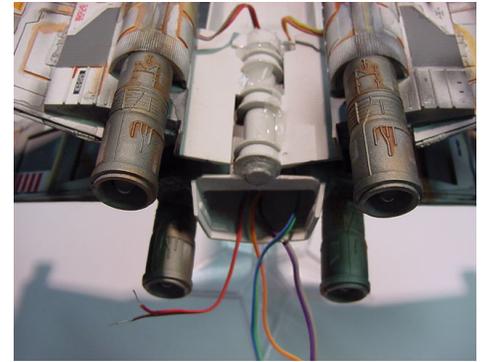
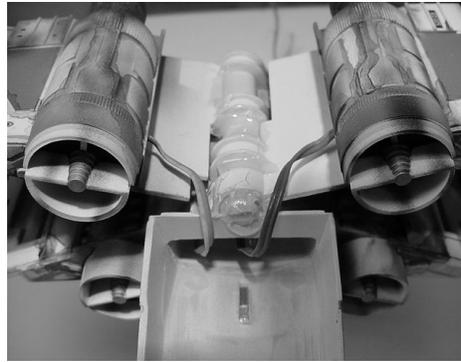
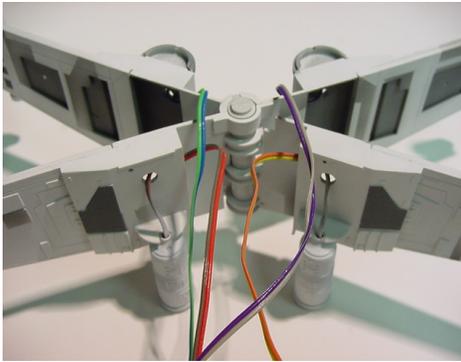
Clear Part Here

Leds like This



Step 12

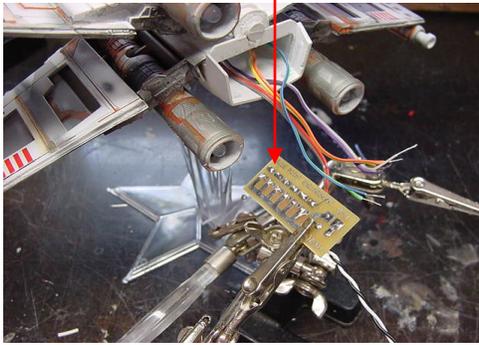
- 1- Mount all four of your pre made engine pods on the two wing halves.
- 2- Carefully fish the wire through the pre drilled holes in the wing and engine area.
- 3- Run all the wire towards the front of the wing section.
- 4- Take all the wires and send them through the lower half of model.
- 5- Run wires all the way out the back of the model and let run long.



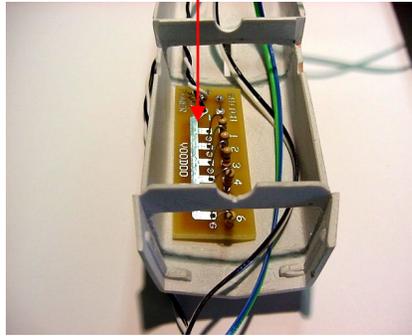
Step 13

- 1- Take the two halves of the model and put them together for a test fit.
- 2- Fish the wires for the upper half of the model through the lower wire chase area.
- 3- Take all six wires and cut them about 3" past the back of the model body.
- 4- Strip back all the wires and prepare them to be inserted into the circuit board.
- 5- Take note of positive and negative locations of the led power ports.
- 6- Install both wires one at a time and solder. You might want to test the first one.
- 7- Repeat the process until all six connections are made. Test lights.
- 8- After checking insert board and wiring back into lower half of model.
- 9- Wire tie any loose wires and stuff extra wire back into model.
- 10- Test again before closing model and run a wire to your battery supply.

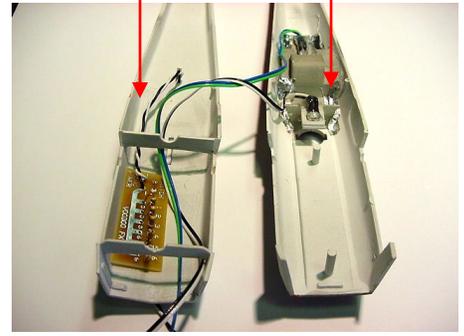
Wire & solder outside model



Insert circuit board and extra wire in here.



Fit wire and board like this



General Prep

- 1 - Sand down any high spots.
- 2 - Fill in any low spots.
- 3 - Sand entire surface for adhesion.
- 4 - Wash with mild dish soap & warm water.
- 5 - Rinse off entire surface with fresh water.
- 6 - Air dry or dry with clean cloth.
- 7 - Prime full surface with quality primer.
- 8 - Let primer dry 24-48 hours minimum.
- 9 - Paint to according colors and or preference.

Please Do Not Contact Distributor

If you having problems call VoodooFX.

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

Email 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.

GENERAL LED HANDLING PRECAUTIONS:

CAUTION: The LED can cause permanent damage to eyes at close range.

You should never look directly at the light source of the LED.

CAUTION: LEDs are static sensitive devices. Wear grounding wrist strap.

When attaching leads, the leads should be at a point at least 3mm from the base of the LEDs. Avoid damage to LEDs by not soldering more than 3 seconds with a 700* iron. Do not use LEDs without a current limit resistor.

The forward voltage rating is typical and can vary from part to part. LEDs may work fine connected to a battery of proper voltage, other LEDs will be over driven and destroyed! Always use a resistor in line with LEDs.

CAUTION: This kit contains small parts which may be hazardous to children under 12 years. Adult supervision is required.

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