

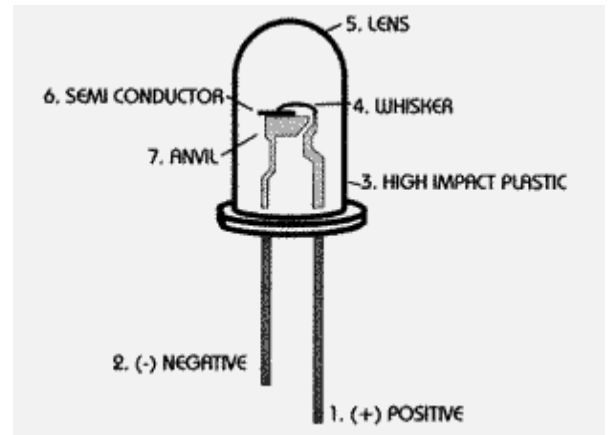
# VoodooFX

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 650-568-3400  
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CLK-1

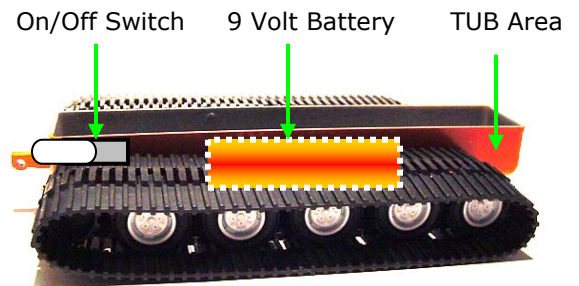
## General Led Diagram



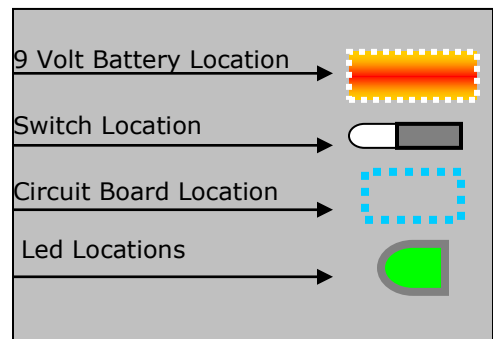
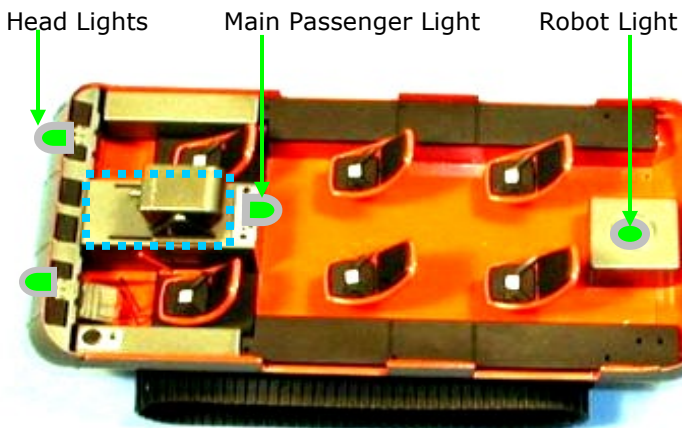
## General Starting Instructions:

- (1) Unpack lighting kit and parts.
- (2) Read instructions & study circuit board diagram.
- (3) Locate areas for circuit board, leds and battery.
- (4) Locate mounting area for on/off switch.
- (5) Prefabricate electronics as necessary.
- (6) Study model kit & building instructions.
- (7) Drill out locations for leds & wire chase ways.
- (8) Test all lighting before install and after.
- (9) Use a new 9 volt battery to test circuit board.
- (10) Never test a led direct with a 9volt battery.

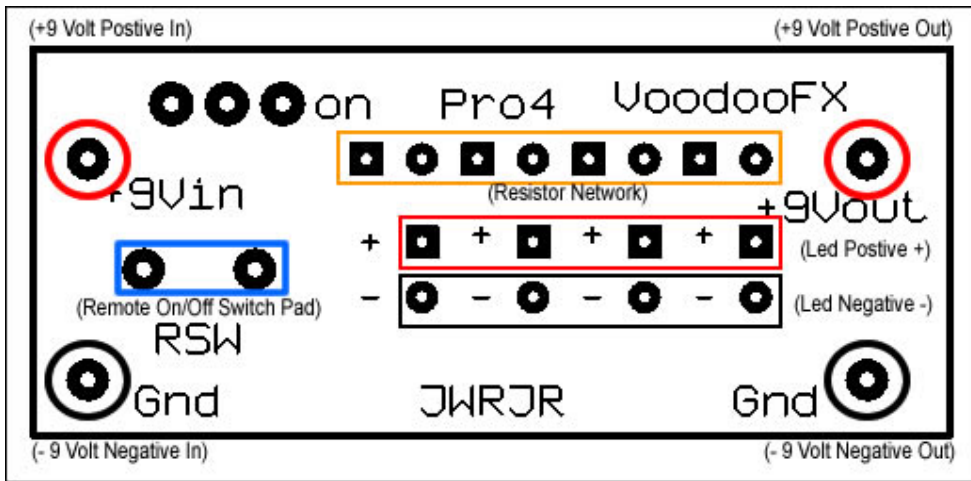
## Battery & Switch Locations



## Over All Lighting Layout

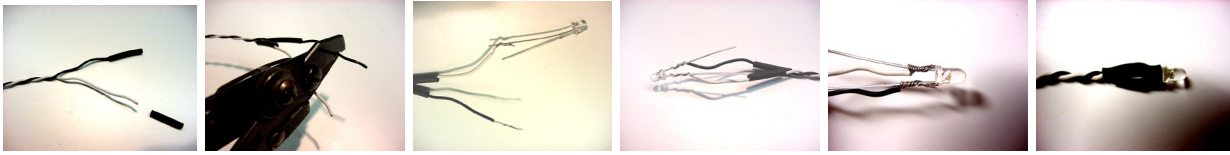


## (Circuit Board Diagram)



## (How to Make a Wired Led)

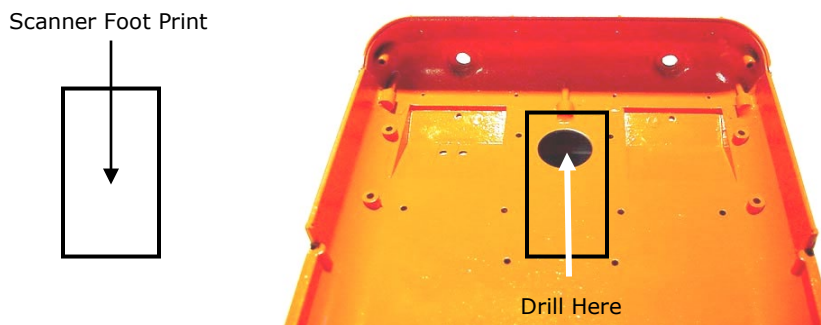
- 1- Separate the two wires. Pick what color will be positive+ and what color will be negative-. (Example) Lighter color is positive+, darker color is negative-. This will apply to any color, you make the choice.
- 2- Slide on two pieces of shrink tubing 1/8 - 1/4" long, Slide past area where wire coating 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.



## Chariot Instructions Ver1

1- Start by taking the main lower body part and drilling a chase hole for battery and on/off switch. The hole location needs to be smaller than scanner parts outer edge in order to be hidden from view. It also needs to be back a little from the front head light part in order to fall into the "TUB" cavity. Be careful not to drill out too close to the front and miss the "TUB" area. [See photo 1](#)

PHOTO 1



2- Drilling out for head lights, scanner and robot. The head light openings need to be smaller than the LEDs to avoid bottoming out on the clear glass lens that comes with the model kit. Drill a pilot hole dead center of the head light circumference, open the hole up a little at a time until you reach desired sizing, "Again keep in mind not to drill out larger than led". [See photo 2](#).

3- Drilling out for scanner passenger rear light. Drill a pilot hole in the back area of the main scanner, placement is optional but dead center seems to be best. Open the whole up a little at a time until you reach desired sizing, "You want the led to fit in the hole firmly but still poke outside of the scanner to light up the seating" [See photo 3](#).

4- Drilling out for the robot base pad. Drill out the bottom of the robot lower main body, this hole can be oversized a little because it will be hidden by the rim of the pad" But don't get too crazy". Drill out a pilot hole in the center of the base pad You want the led to fit in the hole firmly but still poke through of the base pad sending the light straight up" You also may want to paint the clear part on the robot a clear red to enhance the effect. [See photo 4-5](#).

PHOTO 2

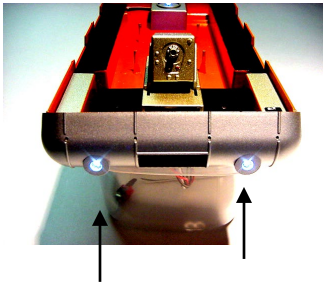


PHOTO 3

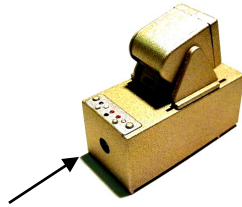


PHOTO 4

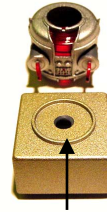
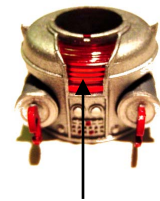


PHOTO 5



5- Drilling out for robot base pad & bench area. The rear of the robot base stand needs to be drilled out for running wire around the inside of the bench area. [See photo 6](#). The bench ends will need drill outs on the ends to allow a chase for the wires to run through. Prefabricate the 5mm white led on the hook up wire and work the led at the same time you mount the two bench parts. You want the finished robot led wire to meet back at the scanner box. [See photo 7](#). The circuit board will be mounted to the inside of the scanner box. [See photo 8](#). Drilling out for the on/off switch area. The rear lower tread area of the "Tub" just above the toe hook is where the switch can be mounted, if you have a base or box run switch wire where you see fit. [See photo 9](#)

PHOTO 6



PHOTO 7

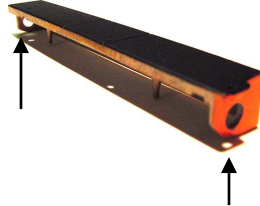
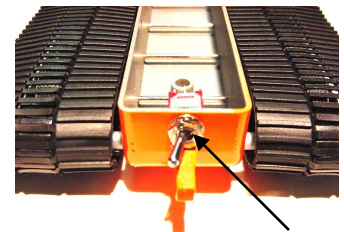


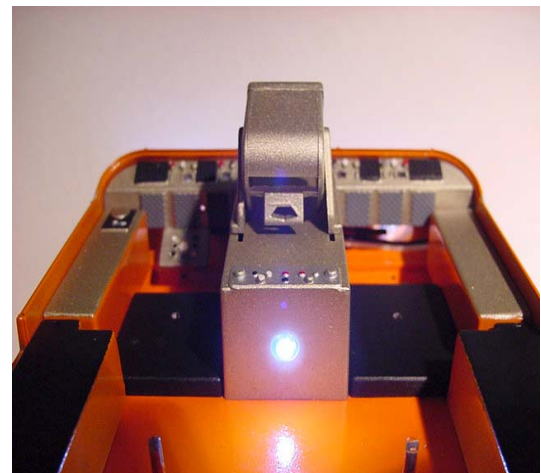
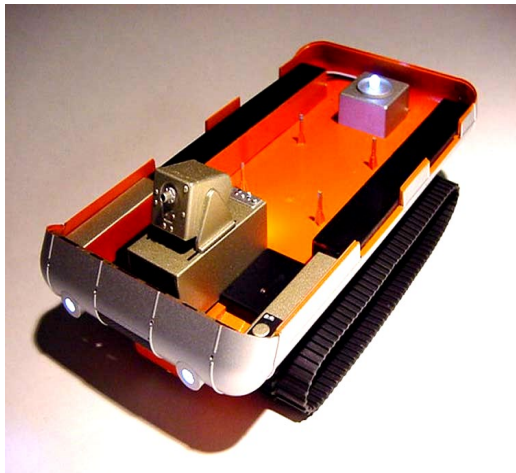
PHOTO 8



PHOTO 9



6- Final, you can prefabricate most of the leds on wire and solder them to circuit board, except the robot light this will be the last to be soldered. Most if not all the model can be pre painted before you start the electronics, but it is good rule of thumb to make you major drill out before applying any finish coats. Leds can be mounted with a small amount of hot glue and same with circuit board. Always double check all connections and test leds before closing up any part areas. The 9 volt battery sits very tightly in the lower tread "TUB" and is screwed shut with the two screws that come with the kit. If you are mounting the model on a display base just extend the power to the base and mount you switch in the base too. If you're having trouble call us direct for information 650-568-3400.







Voodooofx is not responsible for improper installation. There are no refunds on electrical parts or components. Custom lighting kits are nonrefundable. 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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