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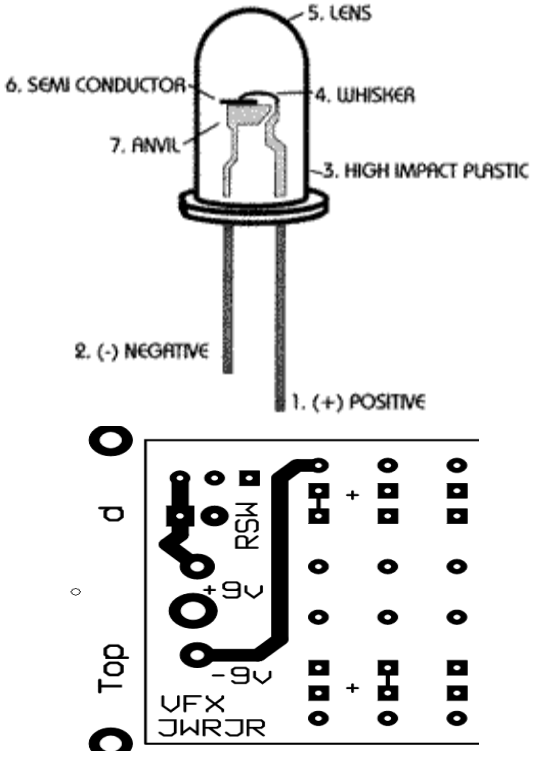
(2001 EVA POD EVAPODLK-1)

General Led Diagram

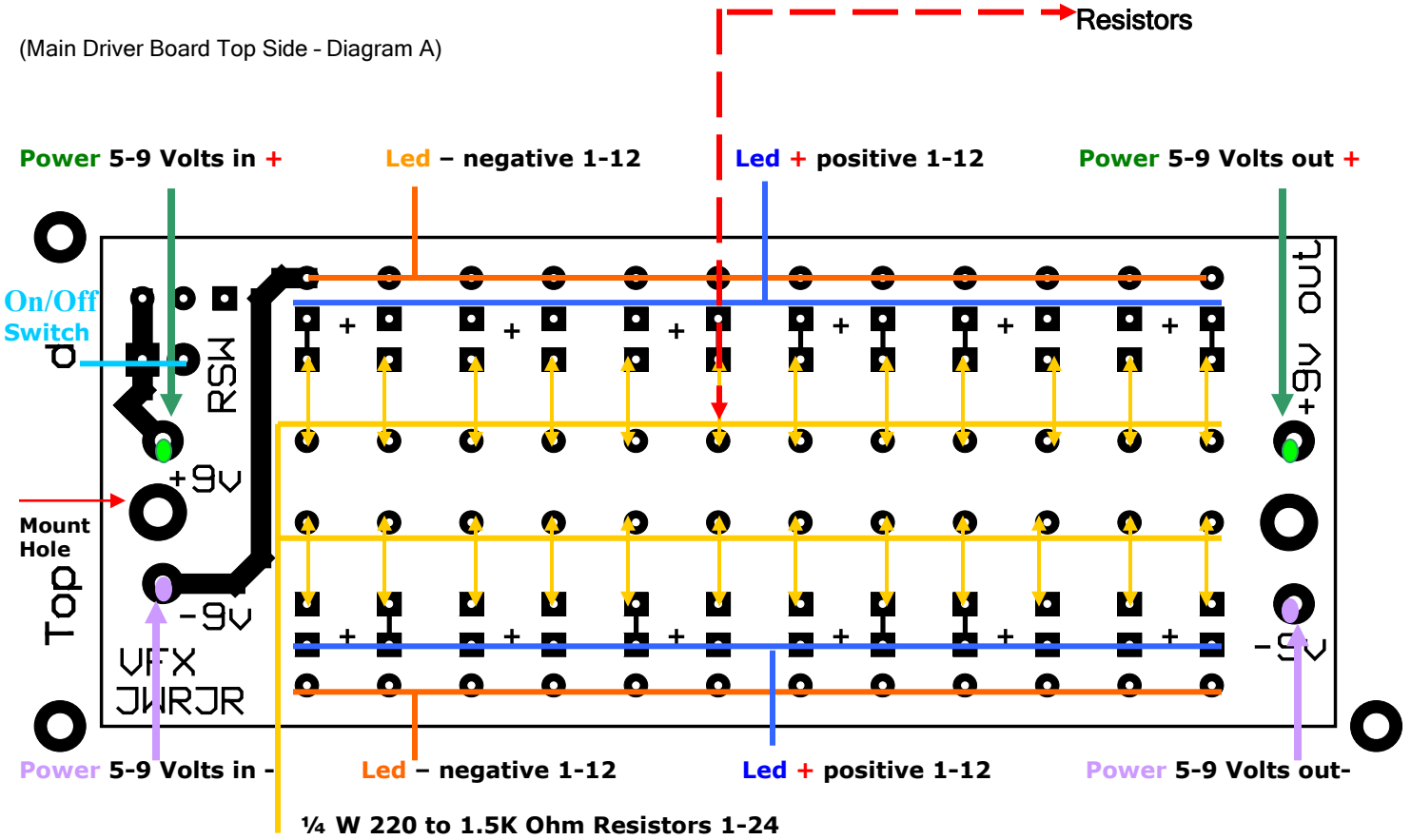


(General Lighting Instructions)

Start by unpacking electronics parts, read all diagrams & study all the electronics. The EVA pod interior can be lit in many ways, if you have any add on support parts, please read those instructions before proceeding forward. After you have prepared all interior panels, make any adjustments before you start building the interior. It is very important to be aware that any areas that have not been light blocked, will show through the panel exposing unwanted light leaks. Most of the electronics can be prefabricated and added in along the building process. Most of the lighting is done using the 3mm blue leds around the button areas. The main 4 monitors are using a 4.8mm warm white to back light the panels. The other leds used are 3mm and 4.8mm red for the bulk top side & back red glowing features. To help enhance the red lighting there is a small piece of diffusion material that can be cut to fit areas where you want a diffused even lighting effect. The last are the 4.8mm green leds used for the main button pads along the hand panels. If you are not using the acrylic stand offs start by determining what panel zones you prefer to light, you can use a small amount of hot glue to fasten the led to the button bottom areas. Install all leds in locations testing along the way (I prefer using a small strip of gaffing tape over the hot glued led to insure a secure fit). :MAKE SURE TO MOUNT THE REAR DOOR BEFORE INSTALLING INTERIOR: Once you have all the interior lighting mounted & tested, use small zip ties to tighten up all the loose wiring, the circuit boards can be mounted in the bottom half of the main body. Fit the entire pre lit interior into the back half of the model, being carful to not pinch any of the wiring, this is also a good time to make any main power hook ups or on/off switching options. When the interior is mounted get the front face half of the model kit prepared for lighting, there are 4 head light buckets that will need to be drilled out for a 3mm warm white led. Test fit the holes with the 3mm leds, mount buckets into main body and let dry. Pre fabricate the 4 leds on wire & mount them in back of bucket holes, again using a small amount of hot glue followed by the gaffing tape. Lastly build the hal 9000 led, it uses 1-3mm red diffused led. You must make sure to use the 2K resistor with the hal light, so it is not over powering. If you have the aftermarket black hal backing plate mount it on the inside, making sure that 3mm drill out is centered in the hal 9000 eye bay. If you don't have the plate cut a small piece of styrene large enough to cover the back side of eye, drill a hole to fit the 3mm led through, paint black & mount it on the back side, making sure to center the hole in the hal 9000 eye bay. Test all lighting before closing up front half model & ear muff area.

(24 Port Led Driver Board)

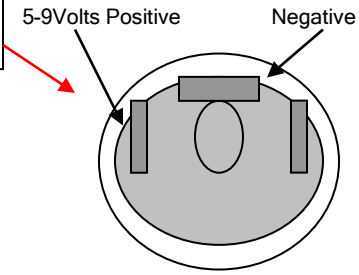
(Main Driver Board Top Side - Diagram A)



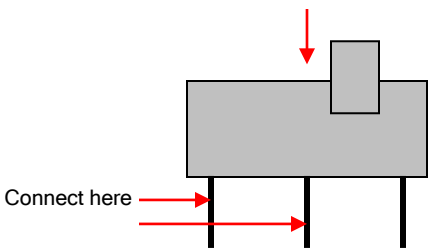
General Instructions 24 Port Driver:
The 24 port driver board is designed for mainly running the on lighting. You can use two styles of resistors to create different led output. Using the 220ohm resistor will give 100% brightness, Using a 1.5Kohm resistor will give you 40% brightness. By using these two different values of resistors you will be able to create the proper desired effects that you are looking for in your project.

(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 - ¼ "long, Slide past area where wire coating will be striped off.
3- Strip back the protected coating and expose the bare wire, 1/8 – ¼" 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.

If using transformer with DC jack hook it up like this.



(General On /Off Switch Diagram)



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