Studio Scale X-wing light kit © 2003-2004 Hyperdyne Labs, J. Shima

Your light kit comes with the main LED controller board and 15 LEDs

This package comes with:

- mainboard
- LEDs
- Batt holder

MAINBOARD

The mainboard has a 9V battery snap connector. Use at least a 9V battery that is fresh. If the battery is weak, the board will act unpredictably. You can use a voltage of 6V-18V on the mainboard, as it has a voltage regulator onboard. The 6AA battery holder will last much longer, as the board needs around 300mA of current for all the LEDs to operate.

The LEDs on the board are in the following order:

- 1) red R2 PSI front blinking LED
- 2) blue R2 PSI front blinking LED
- 3) yellow R2 PSI back blinking LED
- 4) green R2 PSI back blinking LED
- 5) orange engine flicker LED #1
- 6) orange engine flicker LED #2
- 7) orange engine flicker LED #3
- 8) orange engine flicker LED #4
- 9) red static engine LED #1
- 10) red static engine LED #2
- 11) red static engine LED #3
- 12) red static engine LED #4
- 13) white static R2 dome LED
- 14) blue cockpit LED
- 15) green cockpit LED

On powerup, the R2 lights are in blink mode. There are 3 blink modes that cycle.

1) ESB R2 blink mode: 50 sec
2) ROTJ R2 blink mode: 50 sec
3) Random blink mode: 30 sec
Repeats...

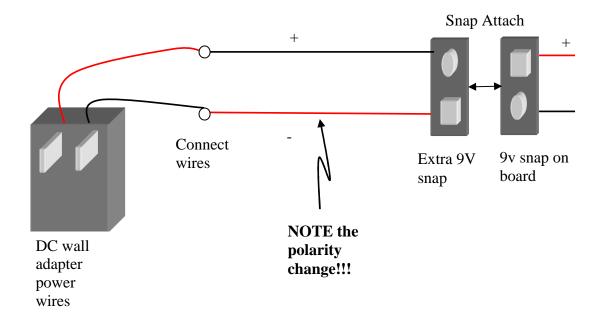
The onboard toggle switch changes between the above blinking mode and a special fade mode. *The LED fade mode attempts to recreate the ANH R2 light effect*.

BATTERIES

You can use a 9V or 6AA batts for power. The 6AA will last much longer. You can also hook up the board to an AC wall adapter, as long as you get one that will deliver 9V with 400mA of current. You can get one at Radio Shack or online.

Included an extra 9V snap connector to facilitate making your own DC adapter plug.

Here is a simple example on how to make your own wall adapter power attachment:



You can see that when you attach two 9V snaps, the wire polarity changes!! NOTE this change when you attach the DC wall adapter wires. See the above figure.

You can snip off the male plug from the DC adapter and splice the + and – wires together as shown. Or you can get a female DC power plug (at Radio shack) and connect them to the power wires, so you can plug and unplug the power supply from the light board.

INSTALL EXAMPLES

Here is a pic of the R2 lights installed:



FIBER OPTICS/REFLECTORS

If you want to get more light, you can use an LED reflector or fiber optics to run the LEDs to multiple areas on your model. Here is a pic of the cockpit lights run with fiber optics. You can get fiber optic cable from <u>http://www.fiberopticproducts.com</u>





And here is a picture of the LED engine lights installed. The 5mm red and orange LEDs can be placed right inside the engine bells to produce the greatest amount of light.





Power supply notes:

The board uses around 300-400mA of current with all the LEDs lit. If you use an AC adapter, make sure it can supply at least 500mA of DC current.

The onboard voltage regulator can get hot after several minutes of use. This is normal. When installing, give the board some room to breath inside the kit. If the board behaves strangely, you can put a small heat sink on the voltage regulator to dissipate the excess heat.

NOTICE: There is no warranty on kits!! It is your responsibility to install the board. Kits cannot be returned! This kit can consume alot of current. Be careful if you plan to use a battery source that is capable of delivering alot of current. Contact a professional if you need assistance. Hyperdyne Labs assumes no responsibility for the misuse of this