Dark Lord Chest Box Lights
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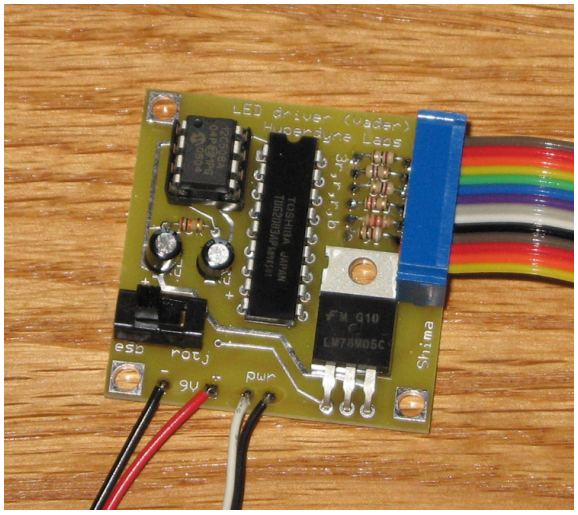
Overview

The Dark Lord chest light kit will fit inside a hollow chest box and mimic the proper movie accurate light sequences.

The kit includes:

- Assembled sequencer board w/ 9v battery snap
- Wired up power switch
- Ribbon cable w/ coin slot red LEDs installed
- Optional static LEDs

Here is a pic of the unit:



The power switch is wired up so you can mount it anywhere you like in your box. The board runs off a standard 9V battery. The 3 red "coin slot" LEDs can be selected to sequence in the ESB mode or ROTJ mode. The onboard switch selects the coin slot LED sequencing mode.

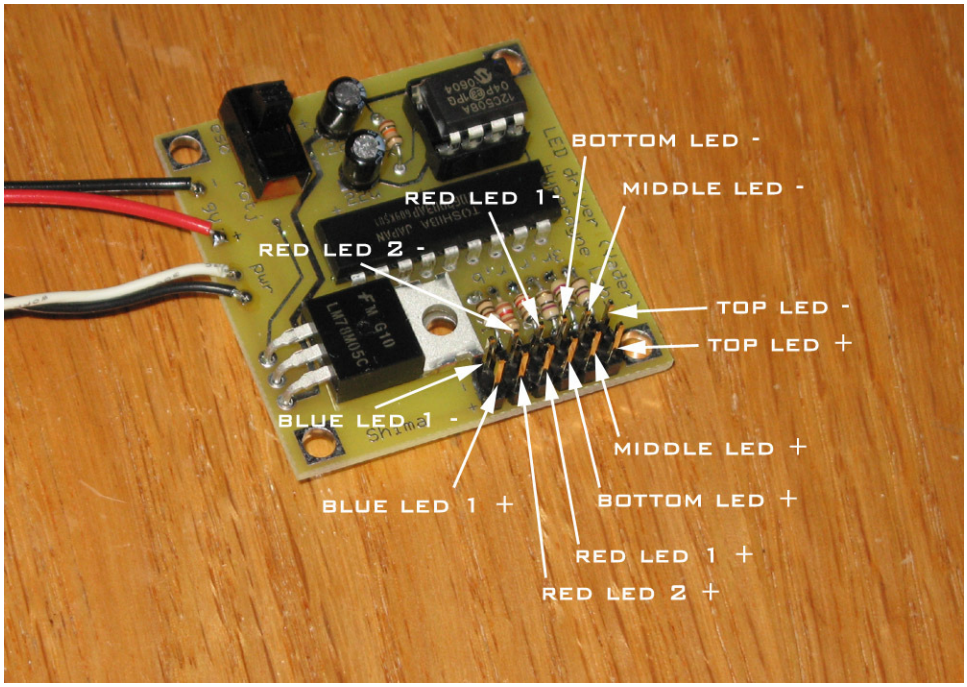
LED header pins

The included ribbon cable connects up to the board header to power the LEDs.

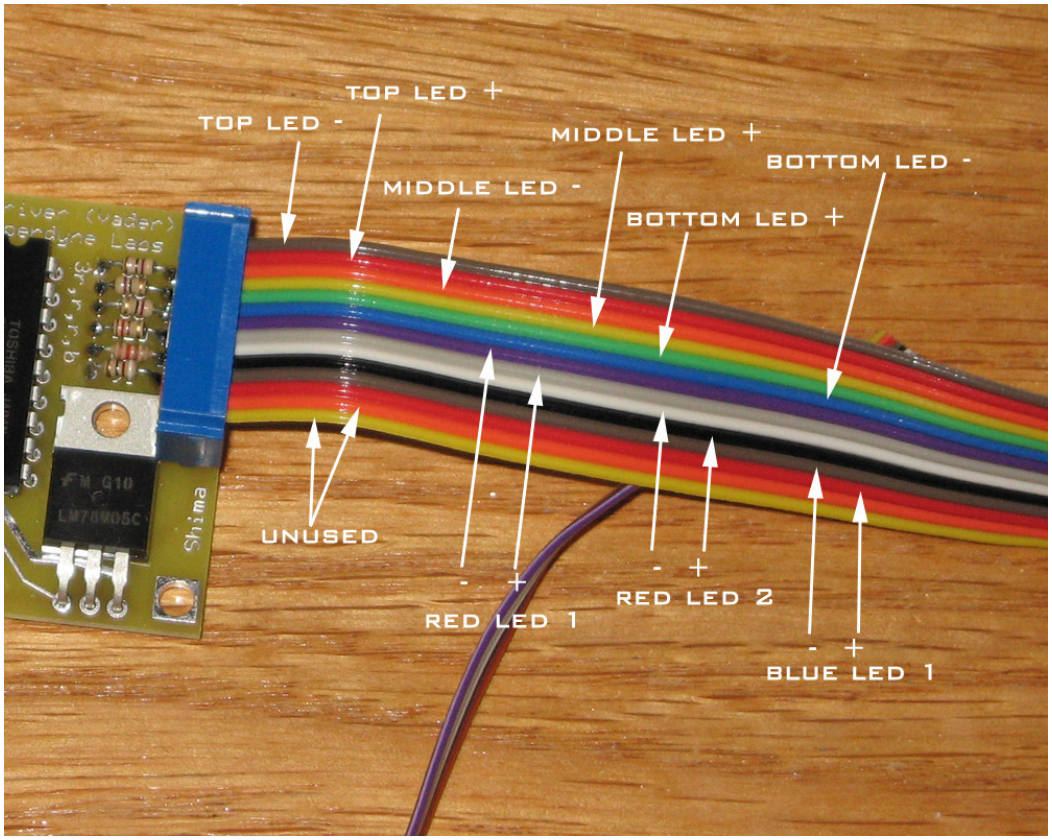
Note the cable orientation above when plugging the ribbon cable into the main board.

The coin slot LEDs consist of 2 super bright wide-angle elliptical LEDs per slot. These are special LEDs and are superior for the coin slot since they radiate large amounts of light to the side of them. This will uniformly light up each coin slot area better than any round 5mm LED.

Here is a picture of the connections of each header pin in case you wish to rewire the LEDs or use your own cable.



When you plug the ribbon cable into the board, the corresponding wire colors that match up with the pins are as follows:

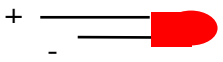


Extra LED hookup

The coin slot LEDs arrays are already wired up to the ribbon cable. This gives you plenty of flexibility in mounting the board and running the coin slot LEDs to your box.

This kit also gives you convenient outputs to run 3 more static LEDs. These can be optionally used to light up the 3 other switches on your chest box. You will have to splice the LED ribbon cable and solder/attach these optional LEDs to use them.

Note: The longer leg of the red LED is the "+" side.

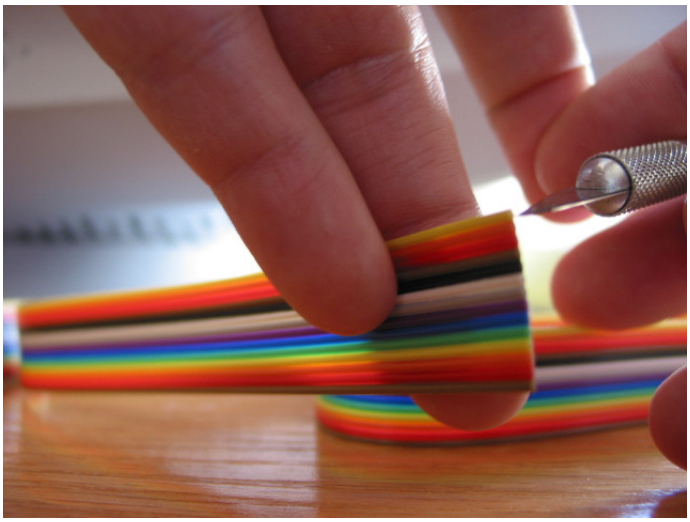


LED polarity

The included extra LEDs include 2 red LEDs and 1 blue LED. They are super bright red 5mm LEDs. You can replace them with any color LEDs that will work off 5V. This includes yellow, green, blue, or white!

To install the LEDs, first locate the wires you are going to connect. Reference the above pics to locate the positive (+) and negative (-) wires for each LED.

You now need to prep each wire for each LED lead. First take an exacto knife and splice **carefully** between each wire so you can attach the LEDs more readily. This is shown below:



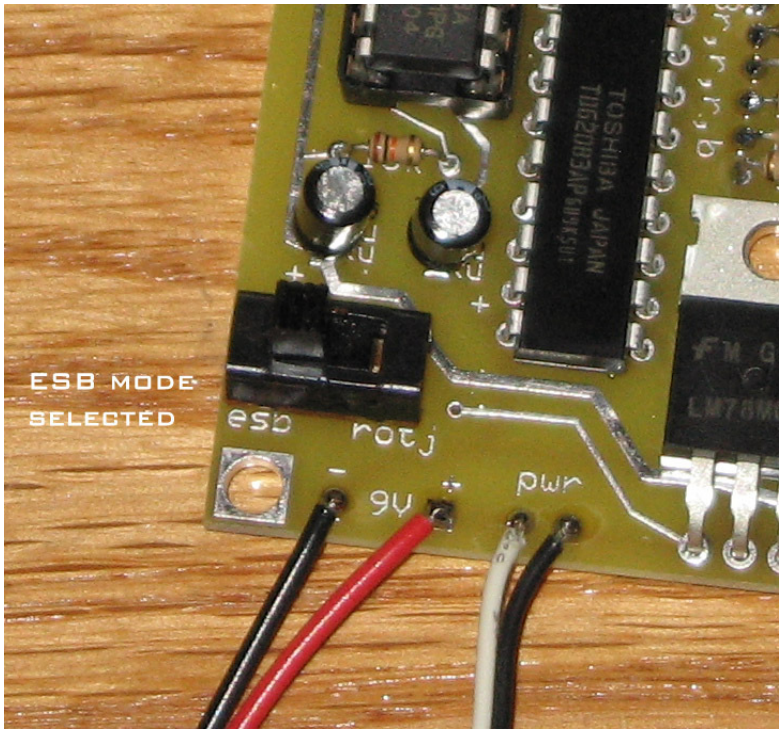
Once you separate the wires, you can pull them away from the ribbon cable (like string cheese) to give you more wire length to work with when installing the wires in your body.

Next splice away the sheath from the wire to access the bare wire strands. Then solder the LED to the 2 wires. **NOTE: LEDs have polarity, so make sure you connect the + side of the wire to the + lead of the LED, and the same for the – side.**

If you don't have a soldering iron, you can also wrap the bare wire around the LED leads and glue them down.

Mode selection

The coin slot sequencing is selectable between “ESB” mode and “ROTJ” mode. Just flip the onboard slide switch to the mode you want. The modes are printed on the circuit board. The below pic shows the switch location for the ESB sequencing mode.



Install

The board also has 4 mounting holes on each board edge that you can use with ¼” standoffs and 4-40 screws for easy mounting inside your chest box.

As an alternative install method, you can also use hot glue to secure the board inside your chest box. The electronics will not be harmed by hot glue. You can always remove cured hot glue by applying rubbing alcohol to the cured glue spots. The glue should peel right up!

Good luck and enjoy!

NOTICE: There is no warranty on kits!! It is your responsibility to install the board. Kits cannot be returned! 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 kit.