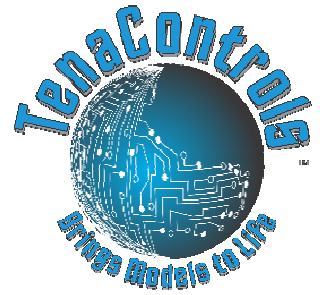


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- WIRING DIAGRAM -

INSTRUCTIONS OF MODEL# PTNPHR-TOS PHOTON AND PHASER BOARD FOR STAR TREK TOS ENTERPRISE 1:350 SCALE FROM POLAR LIGHTS

This control board comes completely assembled and tested. All you need to do is connect the LED's, speakers, momentary switches, and 9 volt battery clip to the two wire mating connectors. Then, plug in a 9 volt battery (not included) and throw the switch (not included) on (this board will also work on 12 volts DC). Hot glue on the four corners of the printed circuit to ensure stability - or use the 4 mounting holes for a 4-40 diameter bolt.

ITEMS YOU WILL NEED:

Soldering Iron
Solder
Cutter
Wire Stripper

****Note:** When using the shrink tubing, you need to only slide the shrink tubing over one leg of the LED to keep it from shorting against the other leg. Then use heat gun or flame from lighter to heat the shrink tubing until it shrinks around the wire connected to one of the led legs.

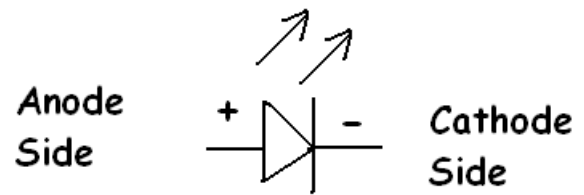
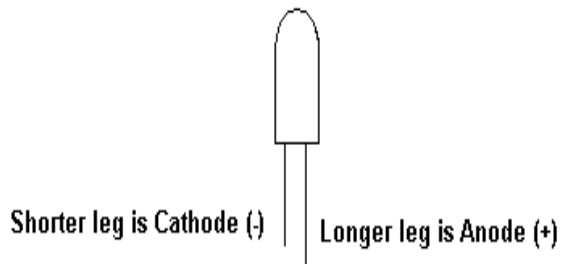
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HOW TO DISTINGUISH AN LED:



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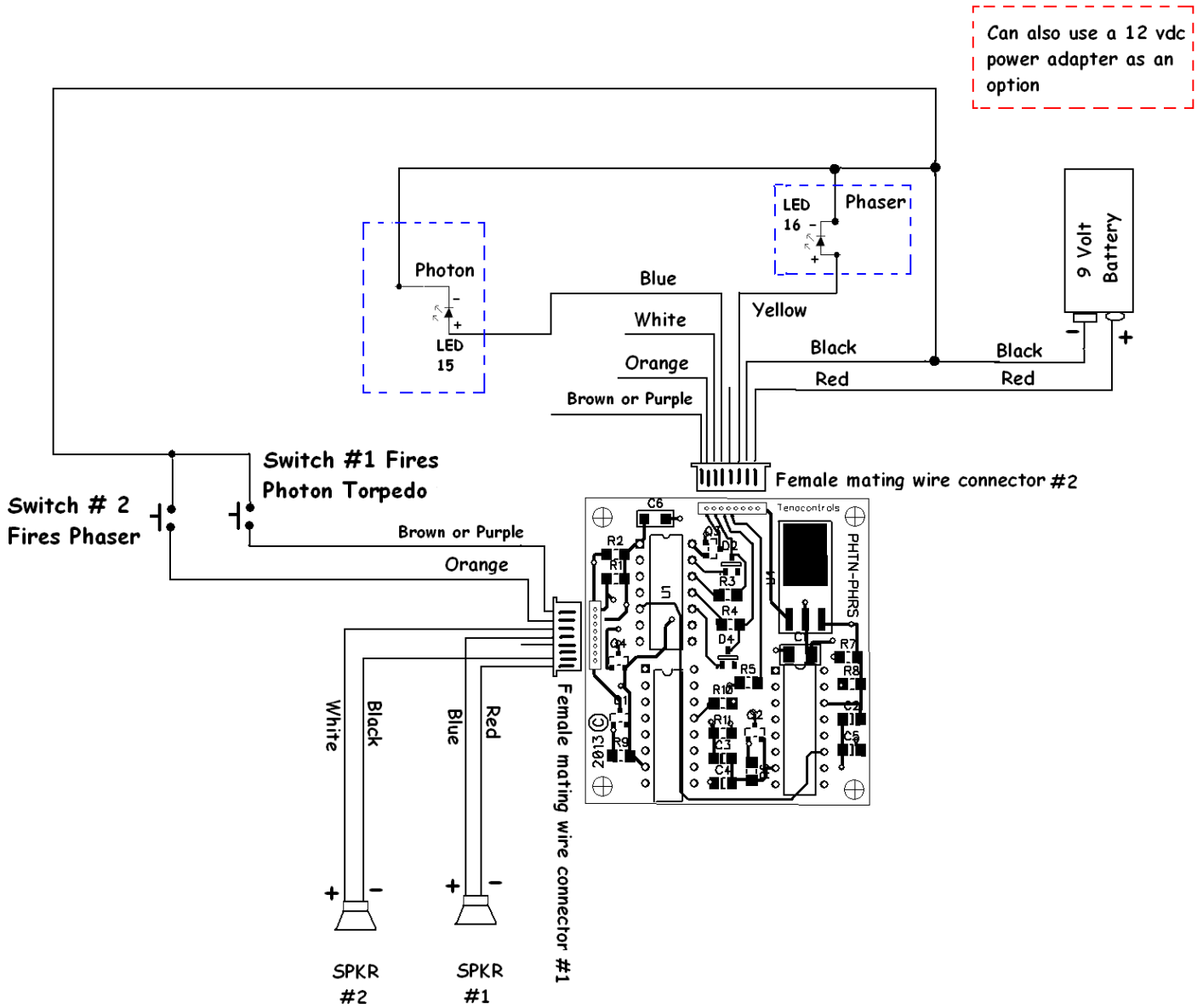
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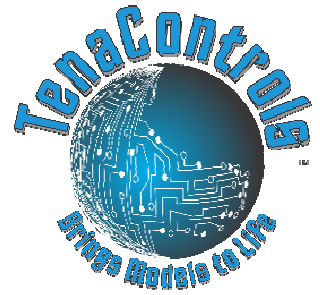
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PHOTON TORPEDO

*REFERENCE THE WIRING DIAGRAM ON PAGE 3

1. One White LED: LED15

The Cathode (-) of the Photon Torpedo LED, LED15 connect to Black wire on mating connector #2.

Then, connect the Anode (+) of LED15 to the Blue wire on mating connector #2.

Now, connect SPKR #1 to the Red and Blue wires on mating connector #1.

Next, connect momentary Switch #1. One side to the Black wire on mating connector #2 and the other side to the Brown or Purple wire on mating connector #1. Pressing Switch #1 will activate the Photon Torpedo firing sequence.

Note: Putting the speaker in a case or tube is a must to get the proper sound requirement.

PHASER

*REFERENCE THE WIRING DIAGRAM ON PAGE 3

2. One White LED: LED16

The Cathode (-) of the Phaser LED, LED16 connect to Black wire on mating connector #2. Then connect the Anode (+) of LED16 to the Yellow wire on mating connector #2.

Now, connect SPKR #2 to the White and Black wires on mating connector #1.

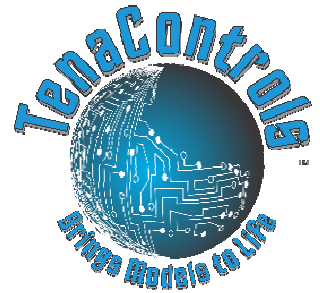
Then, connect momentary Switch #2. One side to the Black wire on mating connector #2 and the other side to the Orange wire on mating connector #1. Pressing Switch #2 will activate the Phaser firing sequence.

Then place the Photon Torpedo LED and Phaser LED in the locations of your preference.

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Warranty

TenaControls LLC warrants that the control boards sold meet TenaControls LLC specifications and are adequately contained, packaged and labeled and conform to the promises and affirmations of fact made on the container and label. THE FOREGOING WARRANTIES ARE EXCLUSIVE, AND ARE IN LIEU OF ALL OTHER WARRANTIES (WHETHER WRITTEN, ORAL OR IMPLIED) INCLUDING WARRANTY OR MERCHANTABILITY IN OTHER RESPECTS THAN EXPRESSLY SET FORTH ABOVE AND WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

In the event that there is a breach of express warranty by the manufacturer made in connection with the purchase of this product, if any, the sole remedy of any buyer shall be to return the product along with original sales receipt, at **buyer's expense** for repair (or replacement of the product if repair is impossible) to the manufacturer's facility in the Commonwealth of Massachusetts, located at 22 Hancock Street, Milford, MA 01757. Some states do not allow the exclusion or limitation of any incidental or consequential damages, so the above limitation may not apply to you. Nothing herein contained shall be construed to be a waiver by the manufacturer of any of the obligations imposed upon said buyer under the laws of the Commonwealth of Massachusetts except as herein specifically stated.

This warranty is enforceable only by the buyer of the product or a person in the buyer's immediate family. This warranty is enforceable for a period of **FIVE YEARS** from the date of purchase. Some states do not allow limitations on how long an implied warranty lasts, so the above warranty may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

Warranty Void if:

- A) Product is altered in any way.
- B) Used for other than its intended use.
- C) Buyer mishandling.