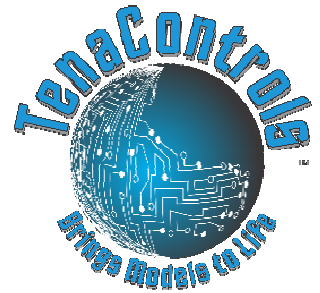


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- WIRING DIAGRAM -

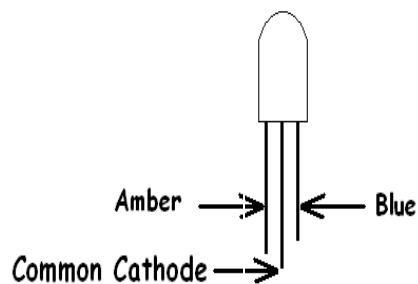
WIRING DIAGRAM FOR THE ENTERPRISE 1701 REFIT 1:1000 SCALE MODEL: 1701-1K

ITEMS YOU WILL NEED:

Soldering Iron
Solder
Cutter
Wire Stripper

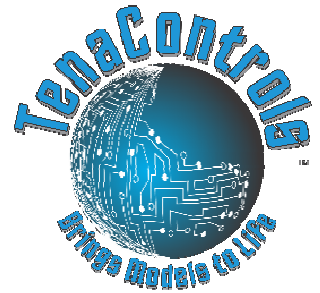
Refer to the Master Wiring Diagram on page 7 of this manual for all external connections to the circuit board.

See below pictorial of how to tell which side is the Amber, Blue and which is the Cathode on the Bicolor LED for the Deflector Dish and Impulse Crystal. It is important to wire it correctly!



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***A digital version of this Manual can be requested via email: ***
sales@tenacontrols.com

Please see below link as a guide:
www.youtube.com/watch?v=OIGVaCNN2JO

- INSTRUCTIONS -

DEFLECTOR DISH LED/IMPULSE CRYSTAL LED:

The Strobe LED's do not need external resistors, only use provided external resistors on the Navigation LED's.

First, connect the three wires from the Deflector Dish Amber/Blue LED as well as the three wires from the Impulse Crystal Amber/Blue LED as **shown on page 7** in the master wiring diagram.

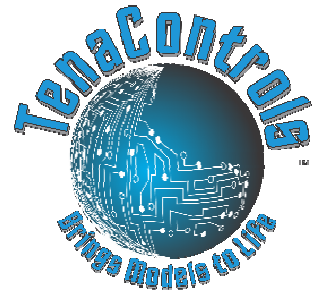
Once hooked up, press the momentary switch and the Deflector Dish Amber and Impulse Crystal Amber will ramp-up to full brightness and remain until the switch is pressed again.

Press the switch again and the Deflector Dish Amber and Impulse Crystal Amber will ramp-down/off then the Deflector Dish Blue and Impulse Crystal Blue will start to ramp-up to full brightness. At the same time the Chiller Grill Blue LED Strips will ramp-up and remain so until the switch is pressed again.

Press the switch again and the Deflector Dish and Impulse Crystal Blue LED will ramp-down and stay off, as well as the Chiller Grill Blue LED Strips, until the cycle is started again.

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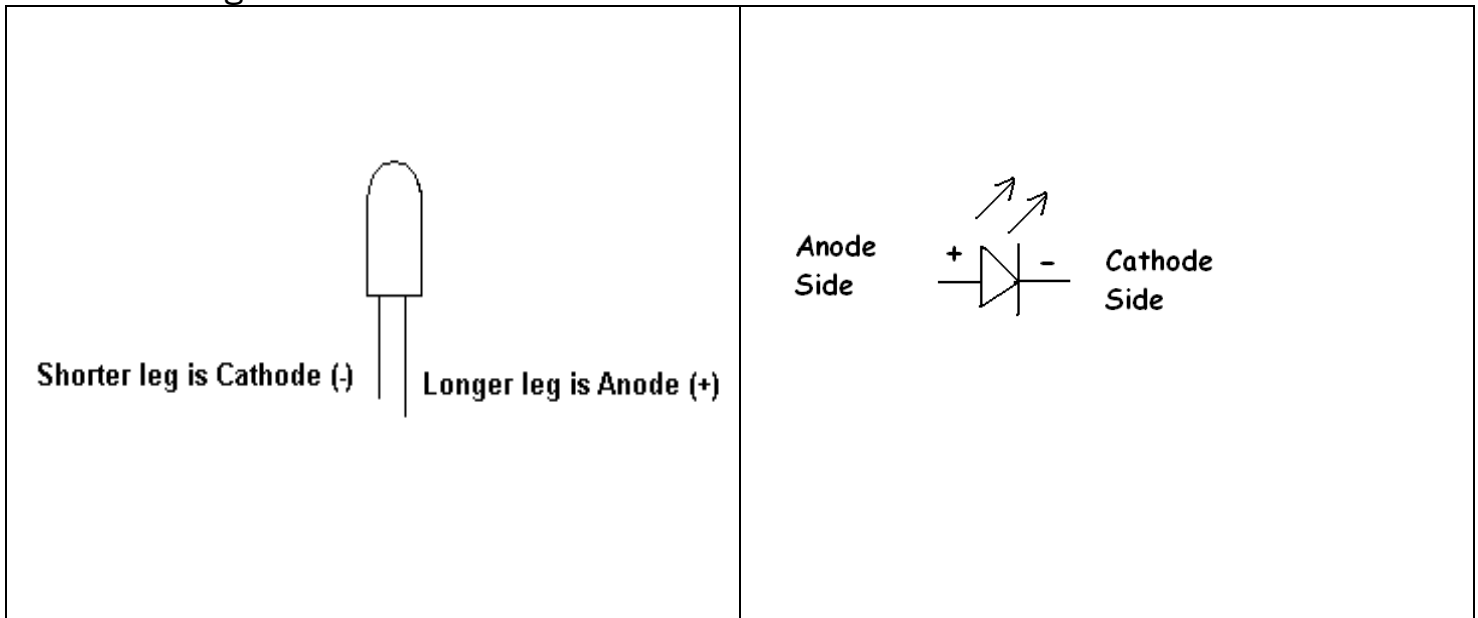


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NAVIGATION/STROBE SECTION:

****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.

How to distinguish a LED:



STROBE SIDE:

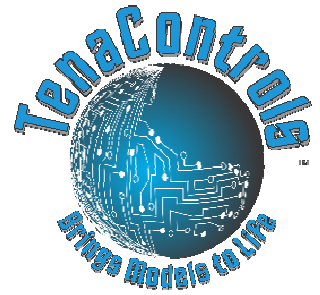
1. Three White LED's: LED4, LED7-LED8

All the Three Anodes (+) of the Strobe LED's, LED4, LED7-LED8 will terminate to the White wire on the JST Micro Connector.

Then, connect the Cathode (-) of LED4, LED7-LED8, to the Black wire on the JST Micro Connector. See below in the master wiring diagram.

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NAVIGATION SIDE:

2. Three White LED's: LED3, LED5-LED6

All the Three Anodes (+) of the Navigation LED's, LED3, LED5-LED6 will terminate to the Orange wire on the JST Micro Connector.

Then connect the Cathode (-) of LED3, LED5-LED6, to one end of their respective resistor and the other end of resistor will terminate to the Black wire on the JST Micro Connector. **See the Master Wiring Diagram on page 7**

3. One Green LED: LED2

The Anode (+) of the Navigation LED, LED2 will terminate to the Orange wire on the JST Micro Connector.

Then connect the Cathode (-) of LED2, to one end of their respective resistor and the other end of resistor will terminate to the Black wire on the JST Micro Connector. **See the Master Wiring Diagram on page**

4. One Red LED: LED1

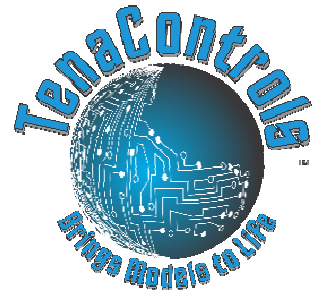
The Anode (+) of the Navigation led, LED1 will terminate to the Orange wire on the JST Micro Connector.

Then connect the Cathode (-) of LED1, to one end of their respective resistor and the other end of resistor will terminate to the Black wire on the JST Micro Connector. **See the Master Wiring Diagram on page**

5. Then place the Strobe and Navigation LED's in the locations shown on the LED locations drawings shown in the master wiring diagram on page 7

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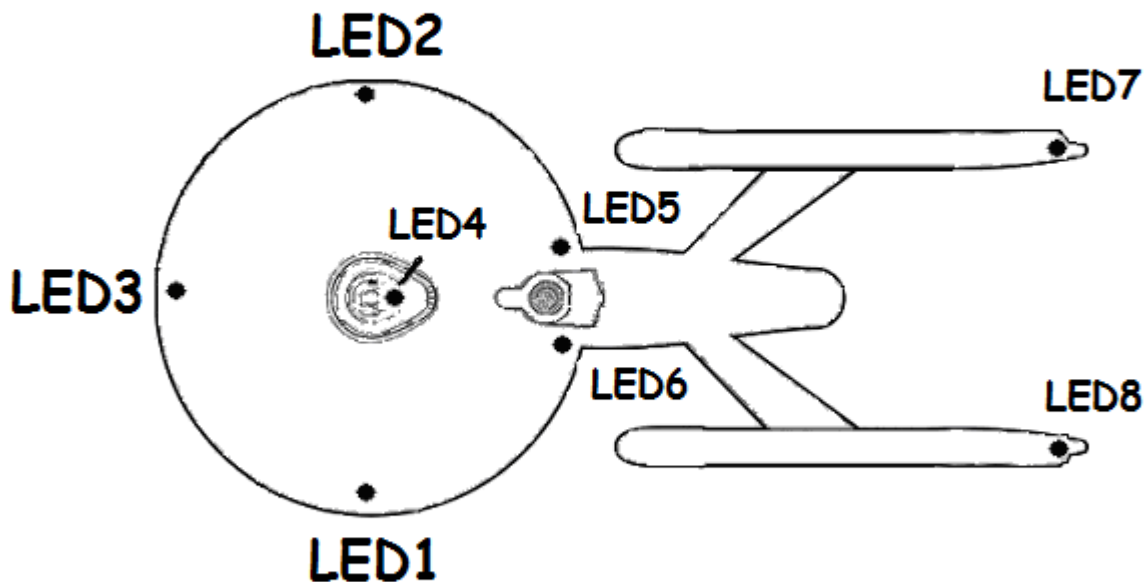
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TOP VIEW OF LED LOCATIONS:

LED1 IS RED NAV, LED2 IS GREEN NAV,
LED3,LED5-LED6 IS WHITE NAV



LED4,LED7-LED8 ARE WHITE STROBE

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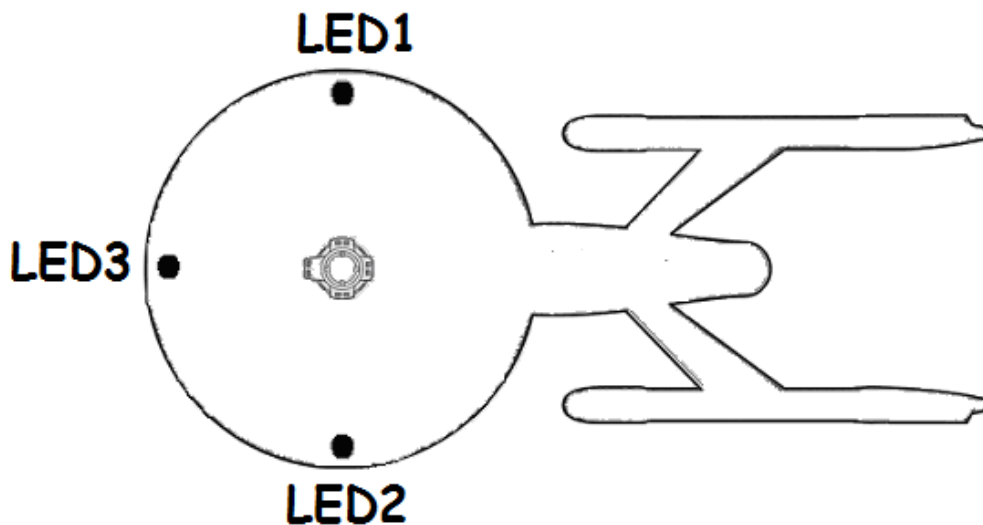
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BOTTOM VIEW OF LED LOCATIONS:

LED1 IS RED NAV, LED2 IS GREEN NAV,
LED3 IS WHITE NAV



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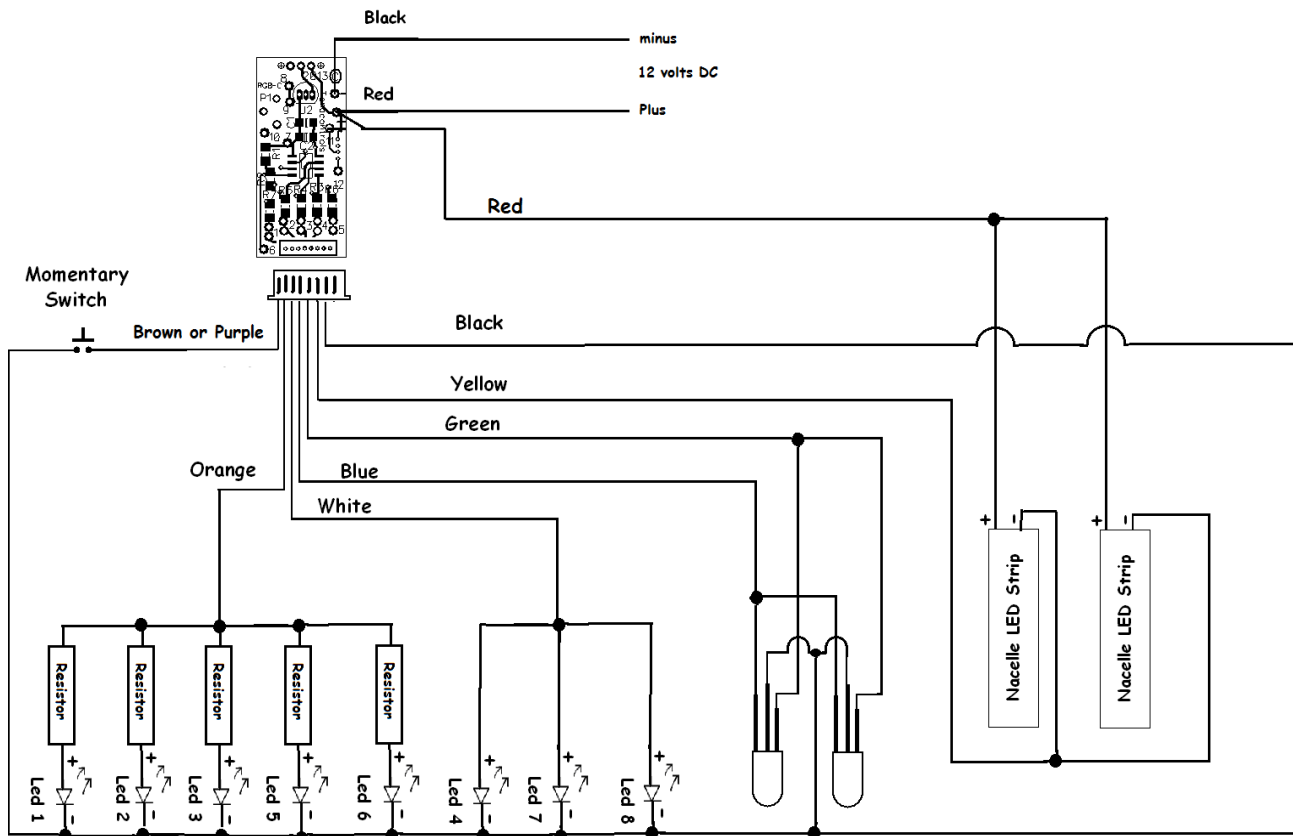
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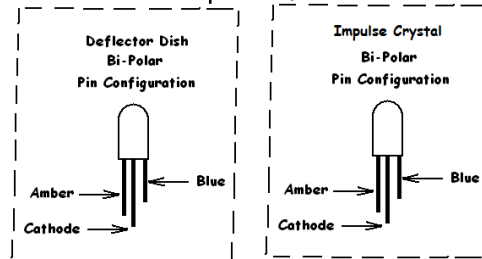
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MASTER WIRING DIAGRAM

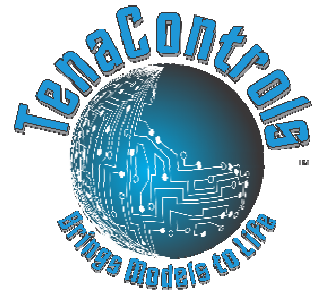


Important!!! Pay attention to the pin lengths of the Bicolor led. Connect as shown above.



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Warranty

TenaControls LLC warrants that the control boards sold meet TenaControls 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.