

# TenaControls LLC

Milford, MA 01757 U.S.A.  
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## - WIRING DIAGRAM & INSTRUCTIONS -

### WIRING DIAGRAM OF THE NX-01-1K KIT FOR THE 1:1000 SCALE ENTERPRISE NX-01

#### ITEMS YOU WILL NEED:

Soldering Iron  
Solder  
Cutter  
Wire Stripper

Refer to the Master Wiring Diagram on page 8 for all external connections to the circuit board.

Here is the link to the Instructional Video:

<https://www.youtube.com/watch?v=zHrNli8qKQ4>

\*\*\*A digital version of this Manual can be requested via email: \*\*\*

[sales@tenacontrols.com](mailto:sales@tenacontrols.com)

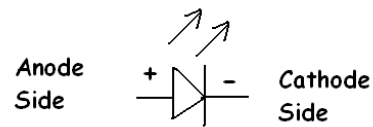
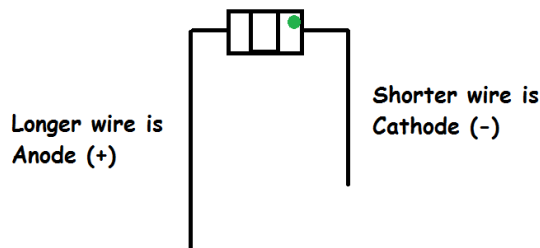
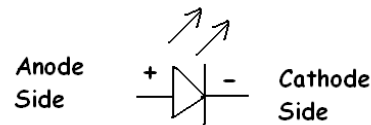
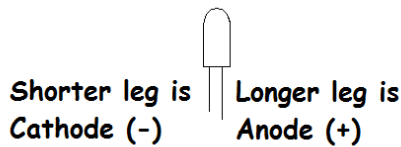
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## How to distinguish which side is the Cathode and which side is the Anode on an LED:



**\*\*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 a heat gun or flame from a lighter to heat the shrink tubing until it shrinks around the wire connected to one of the LED legs. Recommendation: shrink tube the positive side of the LED.

Now, connect the 9 volt battery clip, red to one side of the on/off switch, the other side of switch to Red wire from board, then the Black from battery clip to Black wire from the board. See Master Wiring Diagram on page 8.

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## - INSTRUCTIONS -

### STROBE SIDE

**(REFERENCE THE MASTER WIRING DIAGRAM ON PAGE 8)**

**1. Two White LED's: LED2 - 3mm and LED6 - 3mm**

The Two Anodes (+) of the Strobe LED's, LED2 and LED6 will terminate to White wire from JST Micro Connector on the pc board. Then connect the Cathode (-) of LED2 and LED6 to Black wire from JST Micro Connector on the pc board.

### NAVIGATION SIDE

**(REFERENCE THE MASTER WIRING DIAGRAM ON PAGE 8)**

**2. Two Green LED's: LED1 - 1.8mm and LED5 - SMD**

The Anode (+) of the Navigation LED's, LED1 will terminate to one side of resistor R3, the other side of resistor R3 will terminate to Orange wire from JST Micro Connector on the pc board. The Anode (+) of the Navigation led's, LED5 will terminate to one side of resistor R4, the other side of resistor R4 will terminate to Orange wire from JST Micro Connector on the pc board. Then, connect the Cathode (-) of LED1 and LED5 to Black wire from JST Micro Connector on the pc board.

**3. Two Red LED's: LED3 - 1.8mm and LED4 - SMD**

The Two Anodes (+) of the Navigation LED's, LED3 and LED4 will terminate to one side of resistor R5, the other side of resistor R5 will terminate to Orange wire from JST Micro Connector on the pc board. Then connect the Cathode (-) of LED1 and LED5 to Black wire from JST Micro Connector on the pc board.

**4. Place the Strobe and Navigation LED's in the locations shown on the LED Locations Drawings/Pictures on page 5, 6 & 7.**

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## **LEFT AND RIGHT SIDE IMPULSE ENGINES** **(REFERENCE THE MASTER WIRING DIAGRAM ON PAGE 8)**

### **1. Two Blue LED's: LED7 - 3mm and LED8 - 3mm**

The Two Anodes (+) of the Impulse Engines LED's LED7 and LED8 will terminate to Blue wire from JST Micro Connector on the pc board. Then connect the Cathode (-) of LED7 and LED8 to Black wire from JST Micro Connector on the pc board.

## **NAVIGATIONAL DEFLECTOR DISH** **(REFERENCE THE MASTER WIRING DIAGRAM ON PAGE 8)**

### **2. Two Blue LED's: LED12 - 1.8mm and LED13 - 1.8mm**

The Two Anodes (+) of the Navigation Deflector Dish LED's LED12 and LED13 will terminate to one side of resistor R2, the other side of resistor R2 will terminate to Green wire from JST Micro Connector on the pc board. Then connect the Cathode (-) of LED12 and LED13 to Black wire from JST Micro Connector on the pc board.

## **LEFT AND RIGHT SIDE BLUE NACELLE LED'S** **(REFERENCE THE MASTER WIRING DIAGRAM ON PAGE 8)**

### **1. Two Blue LED's: LED14 - SMD, LED15 - SMD, LED16 - SMD and LED17 - SMD**

The Four Anodes (+) of the Left and Right Side Nacelle LED's LED14, LED15, LED16 and LED17 will terminate to one side of resistor R1, the other side of resistor R1 will terminate to Green wire from JST Micro Connector on the pc board. Then connect the Cathode (-) of LED14, LED15, LED16 and LED17 to Black wire from JST Micro Connector on the pc board..

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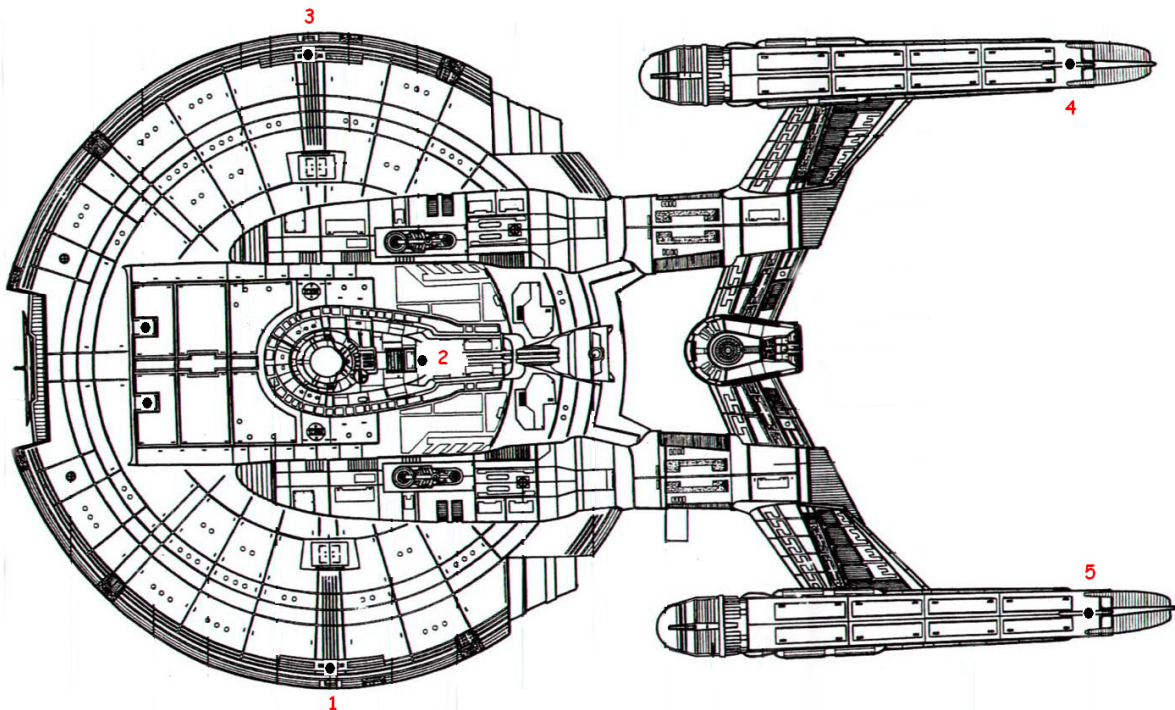
## **LOWER SAUCER DOME LIGHT** **(REFERENCE THE MASTER WIRING DIAGRAM ON PAGE 8)**

### **1. One White LED: LED11 - 3mm**

The Anode (+) of the Lower Dome LED, LED11 will terminate to one side of resistor R6, the other side of resistor R6 will terminate to Green wire from JST Micro Connector on the pc board. Then connect the Cathode (-) of LED11 to Black wire from JST Micro Connector on the pc board.

Now, attach a nine volt battery to the nine volt battery clip. Throw the on/off switch to the on position.

## **TOP VIEW OF LED LOCATIONS**



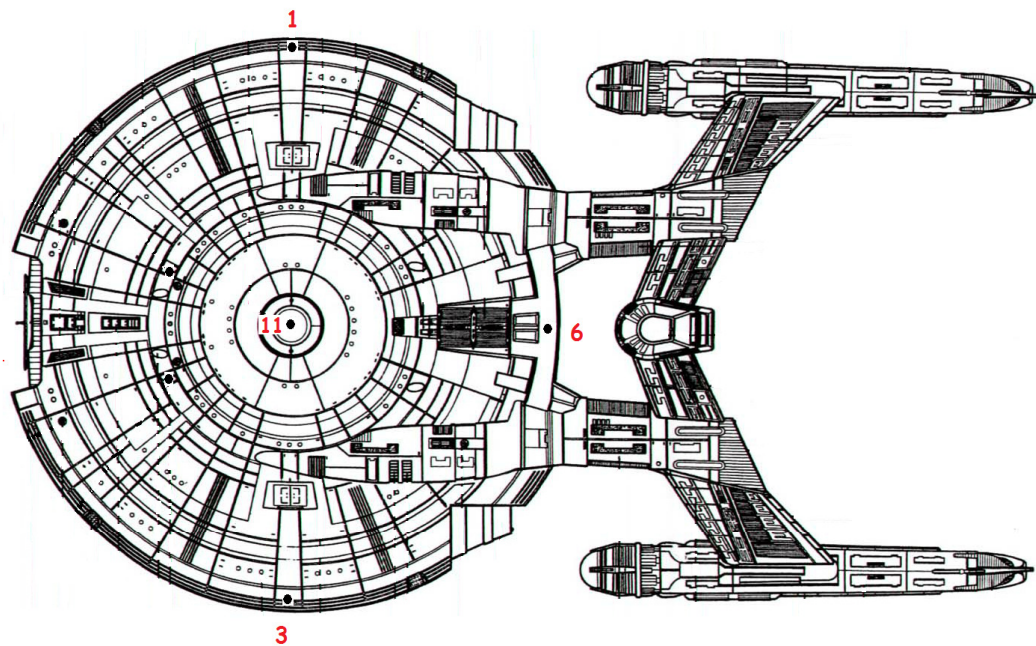
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## **BOTTOM VIEW OF LED LOCATIONS**



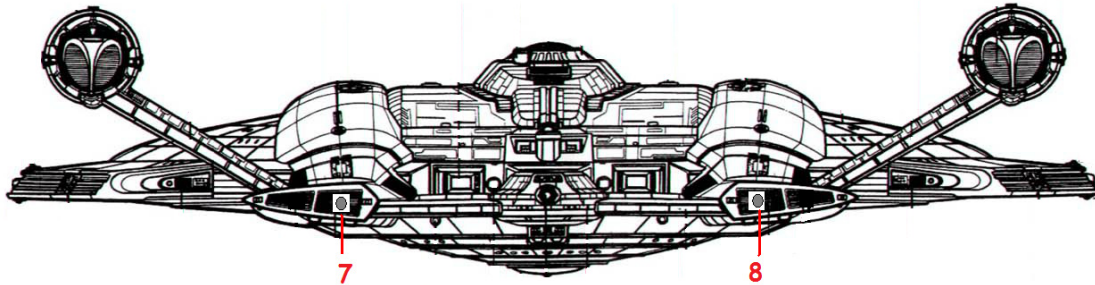
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## REAR VIEW OF LED LOCATIONS



R1=150 OHMS

R2,R3,R4,R5 = 300 OHMS

R6 = 820 OHMS

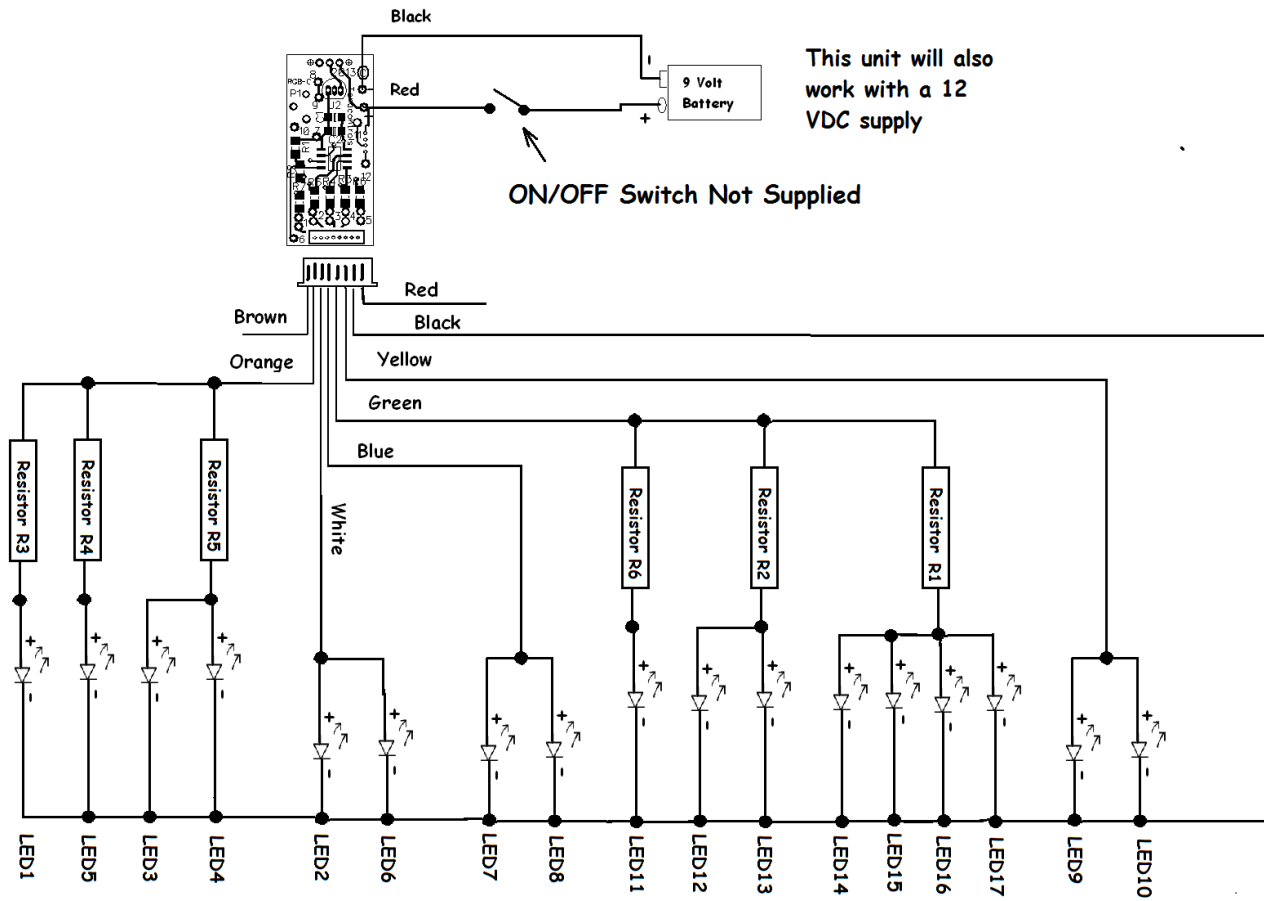
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## MASTER WIRING DIAGRAM





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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.