

Wiring diagram for the Deep Space 9 Runabout Control Board

Model DSPRNBT-A

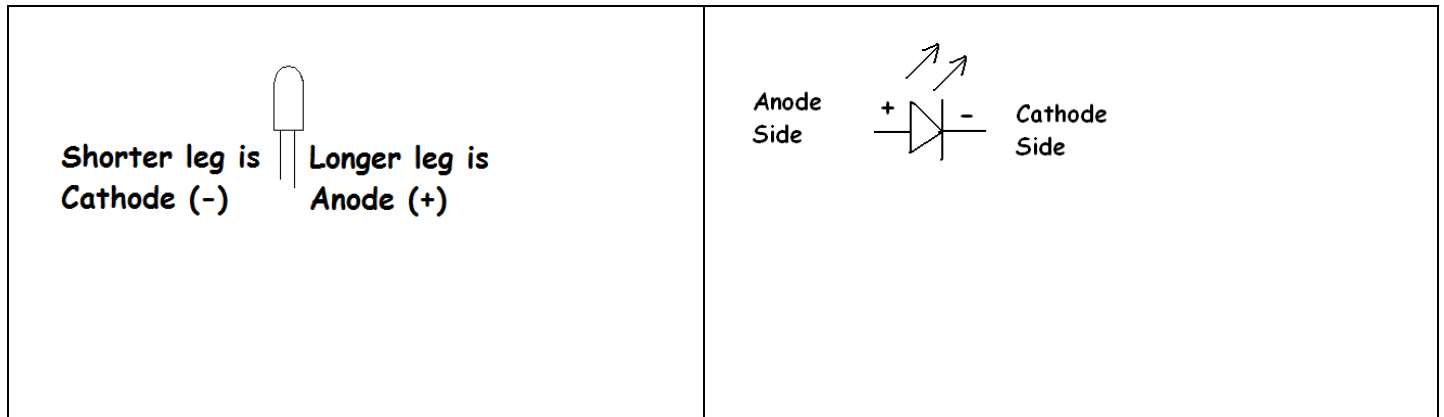
Items you will need: Soldering Iron, solder, hot glue gun, cutter and wire stripper.

Refer to the master wiring diagram shown below for all external connections to the circuit boards.

What is included: One 9 volt battery clip, one On/Off Switch, LED's, LED Strips, One Control board, resistors and Wiring Instructions.

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

How to distinguish a led:



Strobe Side

1. **Five White LED1-LED4.** All the Five Anodes (+) of the Strobe led's, LED1-LED4 will terminate to the Black wire from the JST Connector on the pc board. Then connect the Cathodes (-) of LED1-LED4, to the Brown wire from the JST Connector on the pc board. See below in the master wiring diagram.

Navigation Side

2. **Two Red LED5-LED6.** The Two Anodes (+) of the Navigation led's, LED5-LED6 will terminate to the Yellow wire from the JST Connector on the pc board. Then connect the Cathodes (-) of LED5-LED6, to the Brown wire from the JST Connector on the pc board. See below in the master wiring diagram.
3. **Two Green LED7-LED8.** The Two Anodes (+) of the Navigation led's, LED7-LED8 will terminate to the Green wire from the JST Connector on the pc board. Then connect the Cathodes (-) of LED7-LED8, to the Brown wire from the JST Connector on the pc board. See below in the master wiring diagram.

Red Glowing Bussards

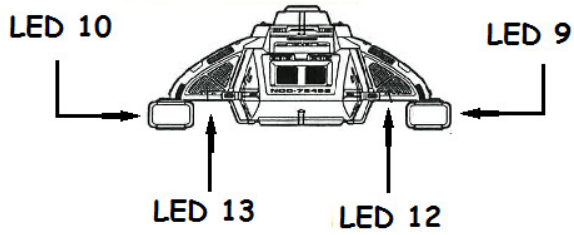
4. **Two Red LED9 and LED10.** The Two Anodes (+) of the Glowing Bussard led's, LED9 and LED10 will terminate to the Blue wire from the JST Connector on the pc board. Then connect the Cathodes (-) of LED9-LED10, to the Brown wire from the JST Connector on the pc board. See below in the master wiring diagram.

Steady On Output

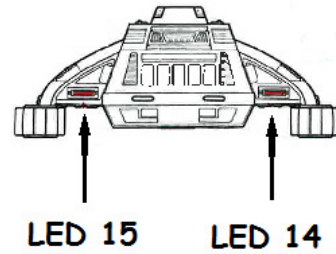
5. **One Blue Warp Core LED11.** Connect the Cathode (-) of LED11, to one end of its respective resistor and the other end of resistor will terminate to the White wire from the JST Connector on the pc board. Then connect the Anode (+) of LED11, to the Red Power Input wire on the pc board. See below in the master wiring diagram.
6. **Two Amber Intake LED12 and LED13.** Connect the Cathodes (-) of LED12 and LED13 to one end of its respective resistor and the other end of resistor will terminate to the White wire from the JST Connector on the pc board. Then connect the Anodes (+) of LED12 and LED13 to the Red Power Input wire on the pc board. See below in the master wiring diagram.
7. **Two Red Impulse Engines LED14 and LED15.** Connect the Cathodes (-) of LED14 and LED15 to one end of its respective resistor and the other end of resistor will terminate to the White wire from the JST Connector on the pc board. Then connect the Anodes (+) of LED14 and LED15 to the Red Power Input wire on the pc board. See below in the master wiring diagram.
8. **Two Blue Warp Nacelle LED Strips.** Connect the Cathodes (-) of LED Strips with the Black wires to the White wire from the JST Connector on the pc board. Then connect the Anodes (+) of LED Strips with the Red wires to the Red Power Input wire on the pc board. See below in the master wiring diagram.
9. **White Interior LED Strips.** Connect the Cathodes (-) of as many LED Strips to the White wire from the JST Connector on the pc board. Then connect the Anodes (+) of as many LED Strips to the Red Power Input wire on the pc board. See below in the master wiring diagram.

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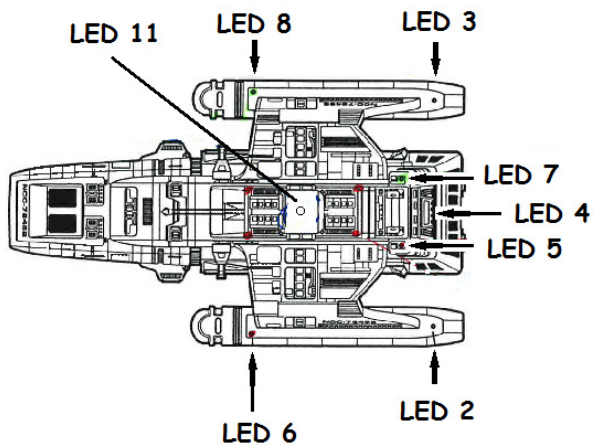
FRONT VIEW



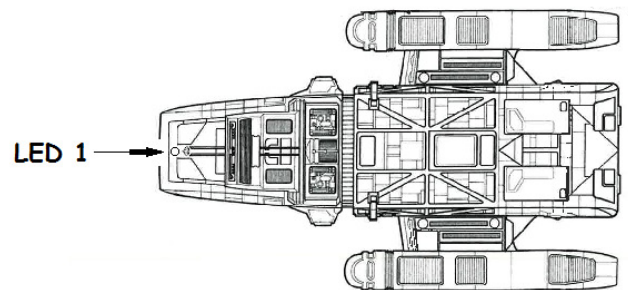
REAR VIEW



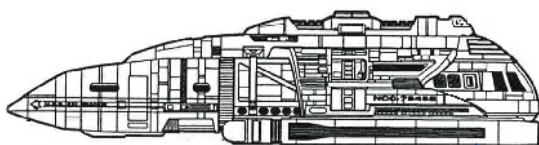
TOP VIEW



BOTTOM VIEW



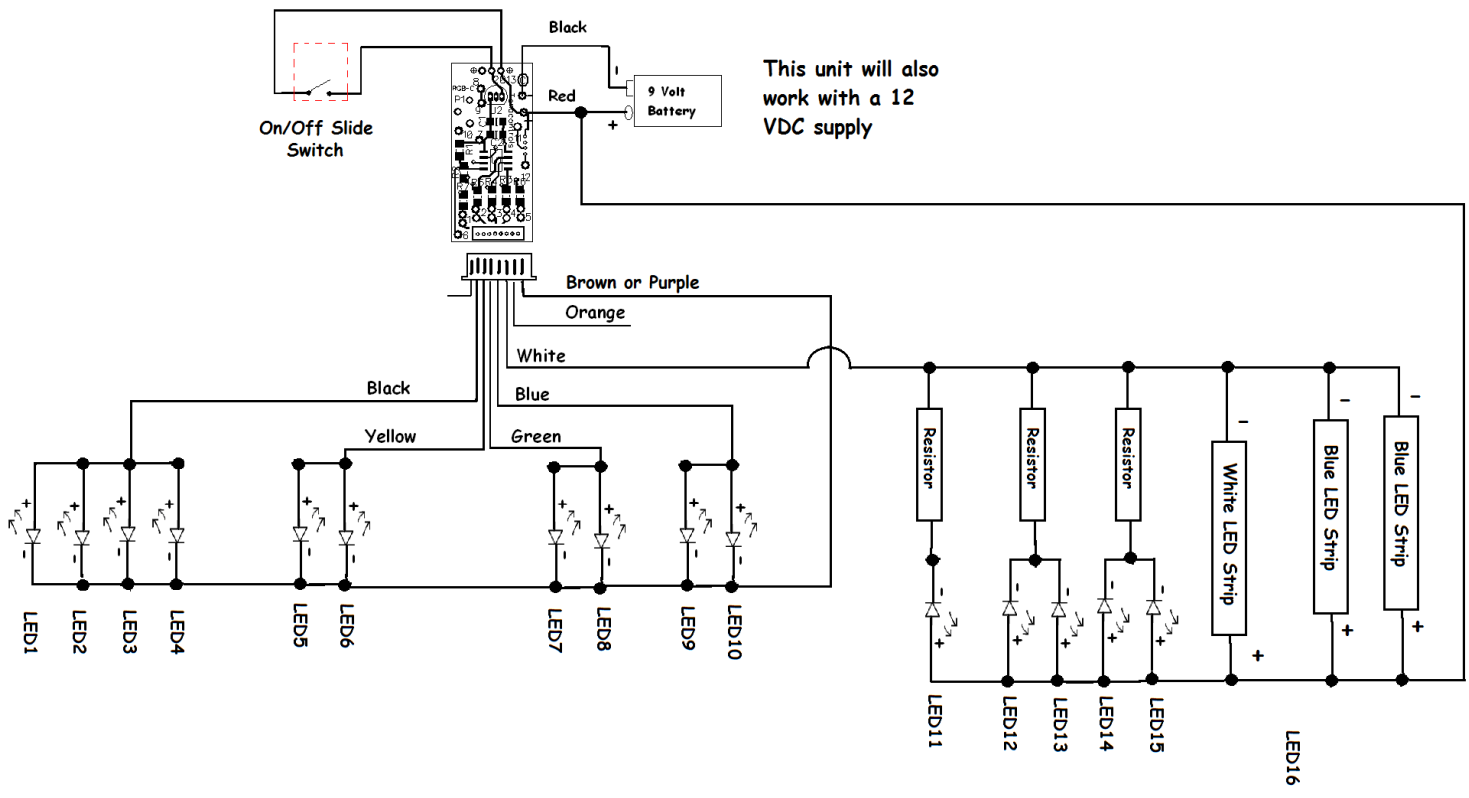
SIDE VIEW



↑
Blue LED Strip here
and on other side

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Master Wiring Diagram



This unit will also work with a 12 VDC supply

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.