



NanoTube/ NT-2500 Installation Guide

Strobe Connector

The 3 pinned wires attach directly to the strobe emitter after the connectors are configured to your strobe assembly.

Wiring Harness – Individual Wire Identification

BLACK Battery or Power Supply Negative

Supplies power to the NanoTube. **DO NOT USE** wire that is rated less than #16 AWG.

RED Battery or Power Supply Positive (9.0 to 18.0 VDC)

Supplies power to the NanoTube. **DO NOT USE** wire that is rated less than #16 AWG.

BLUE Positive Disable Input

When +12 VDC is applied to this lead, the strobe is disabled. Normally connected to a transmission or brake switch. This wire carries very low current, and can therefore be rated as low as #20 AWG.

VIOLET Negative Disable Input

When the battery or power supply negative is applied to this lead, the strobe is disabled. Normally connected to a transmission or brake switch. This wire carries very low current, and can therefore be rated as low as #20 AWG.

GREEN “Run” Mode

When +12 VDC is applied to this lead, the strobe output will be enabled. This wire carries very low current, and can therefore be rated as low as #20 AWG.

Minimum Installation Requirements Connect the **BLACK** and **RED** wires per the wiring diagram. Connect the **GREEN** wire to the switch, to enable the strobe. The other switch terminal attaches to +12 VDC. NOTE: If the switch is rated for at least 10 amps AND the wires used for hook-up are at least #16 AWG, the **GREEN** wire may be directly connected to the **RED** wire and run to the switch as a single wire.

Complete Installation Requirements

Connect the **NanoTube** per the wiring diagram. The following notes should clarify wiring options: 1) In the place of two separate switches, a single SPDT toggle or rocker switch with a Center-Off Position, may be used. 2)

Recommended Strobe Emitters Most users of traffic signal preemption products want the greatest operating range possible. The **NanoTube**, when used with a PAR46, PAR36, or lightbar mounted strobe emitter, will usually provide 2500 feet of range (or better) if the receiver, located on the traffic signal, has been properly maintained, and adjusted. The use of smaller or less efficient strobe emitters will generally reduce the operating range. Strobe emitters can be mounted in or on any light-bar, grille, bumper, chassis, dash, or deck headlamps, etc. **CAUTION:** The **NanoTube** provides increased power-per-flash, to the strobe emitters and can reduce the life of the strobe. **CAUTION:** The **NanoTube** should *not* be used with strobe emitters rated less than 20 watts, or any miniature dash or deck strobes (particularly those enclosed with plastic housings), as this could result in a potential fire hazard.

For additional information please check our website: www.prioritygreen.com

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