



## OPERATING INSTALLATION GUIDE 640004 C.I.D. CONTROLLER

First in LEDs...The solid state warning light leader.™



**CONTROLLER POWER: +12  
VDC@ 30 MA.  
INSTALL 1A FUSE PROTECTION!**



**ALWAYS REMOVE POWER  
PRIOR TO ANY SERVICE  
OR REPAIR OPERATION!**



**NO USER SERVICEABLE PARTS.  
AVOID EXCESSIVE HEAT AND  
MOISTURE CONDITIONS!**

### Installation Guidelines

The C.I.D. (Controller Interface Device) is a necessary component of your Millennium® light bar, and acts to interpret the requests of the switch box and convert these input requests into light bar warning functions. The C.I.D. is compatible with all switch units that produce a constant +12VDC when active. These signals are connected to one of eleven inputs by way of a removable 12-conductor screw terminal. A four (4)-conductor screw terminal is furnished for the communication between the Millennium® and the C.I.D. and the C.I.D.'s power and ground connections.

**ALWAYS  
FUSE THE  
POSITIVE  
(RED)  
WIRE!**

#### **Millennium® Hook-Up**

Be sure you have closely followed the Millennium®'s wiring instructions and power connection diagram before continuing.

#### **C.I.D. Mounting Location**

The C.I.D. Box must be mounted in an area away from moisture and excessive heat. In addition, the C.I.D. should be put in an accessible area to allow for easy access to the screw terminals and potentially, the computer interface jack.

#### **Four Conductor Screw Terminal Block**

These four connections provide power for the C.I.D. Box and communication between the C.I.D. and Millennium® as follows:

**Tx to Mill** – Connect the Millennium®'s white 20-gauge wire here.

**Rx from Mill** – Connect the Millennium®'s blue 20-gauge wire here.

**Ground** – Using your own wire (18-20 gauge), securely connect this pin to the vehicle's ground.

**+12V** – Using your own wire (18-20 gauge), connect this pin to the vehicle's constant +12 volt DC supply or +12 volt DC ignition supply. Fuse this connection with a 1-amp fuse.

#### **Twelve Conductor Screw Terminal Block**

These connections are for activating the Millennium®'s assortment of functions and flash patterns and are activated by a constant +12 volts DC. These are low-current inputs. Consult your switch box instructions and the C.I.D. Functions Table to determine these connections.

### **C.I.D. Indicator Lights**

With the C.I.D. and Millennium® powered up and the blue and white data wires terminated at the C.I.D., the C.I.D.'s indicator lights should be as follows: Green – Steady-on, Amber – Blinking, Red – Off

The red light on steady indicates a communication error between the Millennium® and the C.I.D. Box. Check that the blue and white data wires are properly connected and that the Millennium® is powered up. The Millennium® will not function if there is a communication error.

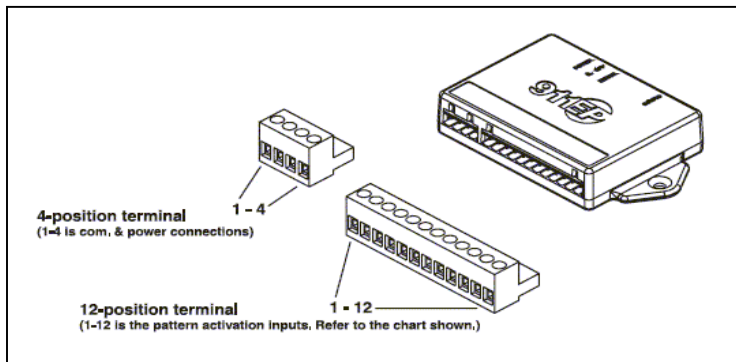
### **C.I.D. Pattern Overrides**

**Codes 1, 2, and 3** – Code 3 overrides Code 2 overrides Code 1. These inputs are designed for, but not limited to, a progressive slide switch.

**Take Down, Left Alley, and Right Alley** – These inputs will override any pattern that flashes the corresponding halogen light(s). For instance, if the Take Downs are activated while the halogen lights are flashing in a warning pattern, the Take Down lights will remain on steady until the Take Downs are deactivated.

**Directionals Left, Right, and Center-Out** – These inputs will override the trailing edge pattern of Codes 1, 2, and 3.

**Warning** – This input will override the trailing edge pattern of Codes 1, 2, and 3 as well as Directionals Right, Left, and Center-Out.



### **4-Position Screw Terminal**

**Position #1 - Tx to Millennium®**

White Data wire from Millennium

**Position #2 - Rx to Millennium®**

Blue Data wire from Millennium

**Position #3 - Ground**

Connect to solid ground

**Position #4 - +12 Volts DC**

Connect to fused (1-Amp) +12 volt DC source

## **C.I.D. Functions Table**

	<b>Millennium® C.I.D.</b>	<b>Millennium® TOW C.I.D.</b>
<b>Pin</b>	<b>Function</b>	<b>Function</b>
1	Code 1	Flash 1
2	Code 2	Flash 2
3	Code 3	Flash 3
4	Take Down	Left Turn
5	Left Alley	Left Alley
6	Right Alley	Right Alley
7	Directional Left	Directional Left
7 + 8	Directional Center-Out	Directional Center-Out
8	Directional Right	Directional Right
9	Rear Warning	Rear Work Lights
10	Aux 1 (Night Mode)	Right Turn
11	Relay Output	Relay Output
12	Aux 3 (Programming Only)	Driving Lights / Programming

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## **LIMITED WARRANTY – EFFECTIVE NOVEMBER 11, 2002**

Congratulations on your purchase of a quality 911EP® product.

911EP®, Inc. (the “Warrantor”) will replace parts, in case of defects in materials or workmanship, for five years subject to the following conditions and limitations:

- This warranty only covers failures due to defects in materials or workmanship, and does not cover normal wear or cosmetic damage. This warranty does not cover damage that occurs in shipment, failures caused by products not supplied by the Warrantor, or failures that result from abuse, accidents, maladjustment of consumer controls, neglect, improper or inadequate maintenance, improper use of the product, corruption of the cigarette plug, amputation of the cigarette plug, unauthorized modification of the product, commercial use (such as rental use) of the product or damage that is attributable to acts of God or other events beyond the control of the Warrantor.
- The Warrantor will, for five years from the date product is shipped from the 911EP® manufacturing facility, cover the cost of replacement for defective parts under this Warranty. This warranty does not cover chipping, scratching, fading or discoloration of lenses or paint. ***Halogen lamps are not covered under this warranty.*** The warranty does not cover labor charges for removal and re-installation of the product. This warranty will be voided by any unauthorized alteration made to your 911EP® product, or by the installation or attachment of any accessory not designed by 911EP® specifically for the product.
- The Warrantor shall not be liable for incidental or consequential damages resulting from the use of this product, or arising out of any breach of this warranty. If a problem with this product develops within the warranty period, contact a Customer Service Representative at (800) 863-6911.

**Exclusion of Warranties:** This limited warranty is expressly in lieu of all other agreements and warranties, general or special, express or implied. The warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE, and all other warranties, express or implied, are EXCLUDED from this transaction and shall not apply to the goods sold. The Warrantor reserves the right, in its sole and absolute discretion, to refund all or a portion of the purchase price rather than repair or replace any defective materials for workmanship.

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