



OPERATING INSTALLATION GUIDE LED COMMANDER MODEL 212

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



**NEVER INSTALL ANY ELECTRICAL
DEVICE WITHOUT PROPER
FUSE PROTECTION!**



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



**DO NOT BENCH TEST THIS
PRODUCT USING AN AUTOMOBILE
BATTERY CHARGER!**

PRODUCT SPECIFICATIONS

Standard LED Commander is designed to maintain synchronization between flash patterns of all LED Stars being utilized.

Optimum Operating voltage: +13.8 VDC (working range 12 –15 volts D.C.)
Operating Current: .4A
Recommended fuse: 5 Amp

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

REQUIREMENTS

The minimum operating requirements are a weather-protective mounting area away from heat sources, a properly fused +12VDC and ground.

PATTERNS

The LED Commander controls up to twelve (12) LED Stars. Through two (2) input pins, three different flashing patterns are available. Applying continuous +12VDC to these two input pins will activate:

Pattern "A": Alternating "Wig Wag" pattern
Pattern "B": Alternating "64" flash
Pattern "C" (Pattern "A" + "B"): Fast alternating pattern

MOUNTING

Mount the Commander in a dry area away from heat or possible impact. Mount LED Stars, routing all wires to Commander.

WIRING

4-position screw terminal (Power and Inputs)

+12V: The main power supply for the LED Commander. Using your own 18-gauge wire, connect this to the vehicle's +12VDC supply. Fuse this connection with a 5-amp fuse.

Ground: The main ground for the LED Commander. Using your own 18-gauge wire, connect this securely to the vehicle's ground.

A/B: These are the two pattern activation inputs. Applying a constant +12VDC to these pins activates the three flash patterns (See "Patterns" Section).

12-position screw terminal (Outputs)

Pins 1-12: These are the LED Commander's positive (+) switched outputs. Connect the positive (red) wire of each LED Star to one of these outputs. NOTE: In certain patterns, pins 1-6 flash together and oppose pins 7-12, which also flash together.

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WIRING (cont.)

LED Stars

With the positive wire from each LED Star connected to the LED Commander's outputs, connect each LED Star's ground (black) wire and drain wire securely to the vehicle's ground.

At this point, pattern inputs A, B, or both may be activated with +12VDC. All LED Stars properly connected should begin flashing.

NOTE:

*The LED Star cable will need to be trimmed to desired length (removing the 90° plug).
And **both the black and drain** need to be grounded.*

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.

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