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INSTALLATION GUIDE
LED CoPilot Voltmeter Gauge w/Alarm
Part Number: C 9015

*** Always disconnect the battery *before* attempting any electrical work on your vehicle.***

KIT COMPONENTS

◇ One (1) **C9015 CoPilot LED** Gauge 2 5/8 in. diameter, plus bezel and mounting bracket

SPECIFICATIONS

◇ This gauge reads voltage output from 7 to 18 volts, (in tenths) with two visual alarm LED lights that will warn if the voltage goes either above or below the pre-set limits. There are two buttons on the lower face of the gauge to enable these settings: one is for low and the other is high.

WIRING INSTRUCTIONS - Gauge

Note: Automotive circuit connectors are the preferred method of connecting wires. However, you may solder if you prefer.

*Ground - **Black*** Connect directly to an engine ground such as the engine block.

*Power - **Red*** Connect to a switched +12V source such as the ignition switch.

*Dimmer - **Purple*** Connect to the parking lights to dim the LEDs 50% when the headlights are on. However, **do not** connect to the headlight rheostat control wire; the dimming feature will not work properly. Otherwise, connect to ground for permanent 100% brightness.

*Ground Output - **Gray NC if between limits*** Connect to the ground unless you exceed limits.

*Ground Input - **Blue NO*** Connect to the ground of the device to be controlled.

OPERATION

Voltage - Controlled Ground Switch

This device has two settings for *Normally Open* (the *Blue* wire will provide ground AFTER the switch reaches the set voltage), and for *Normally Closed* (the *Blue* wire will provide ground UNTIL the

switch reaches the set voltage). Activation is at 7v *Normally Open*. The display will stay in Settings Mode until it is programmed. To program the unit after starting the engine, shut the engine off and turn on only the ignition.

Reads in tenths

While in Settings Mode, use the push buttons on the device face to change the voltage switch settings in increments of .1 at a time, up to a maximum of 18v. The left button increases, while the right button decreases. Once you are at the desired setting, the LED display will stay on the desired voltage setting for a few seconds, then switch to NO and NC settings. Use the left button to choose.

After the engine is turned off, the settings will remain in memory, until they are manually changed, as described above.

If voltage is below low limit or above high limit settings, display and light will flash. Output will be pulled to ground for Normally Open settings, above ground for Normally Open setting.

To Re-Calibrate

If, at any time, you wish to change the settings, press both buttons until you see "CAL" displayed. Release buttons. Edit displayed voltage up and down, using the buttons, to desired settings. The display will be blank, then will show the new measured voltage.