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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 ⅝ in. diameter, plus bezel and mounting bracket

SPECIFICATIONS

This gauge reads voltage output from 9 to 16 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--This is the main ground for the display system. A wire should be run from this board to the vehicle engine block for the best ground.** Use 18 AWG or larger wire to ensure sufficient grounding. Proper vehicle grounding is extremely important for any gauges (or electronics) to operate correctly. The engine block should have heavy ground cables to the battery, frame, and firewall. Failure to properly ground the engine block, senders, or digital dash can cause incorrect or erratic operation.

***Power - Red*--**Connect the power terminal to accessory +12V power from the fuse panel or vehicle wiring harness. This terminal should have power when the key is on or in accessory position. Use 18 AWG wire to ensure the system receives a sufficient power feed.

***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, or the dimming feature will not work properly and may cause damage to Unit.

***Ground Input* - Blue NO (*Normally Open = No Current Flow*)** Connect to the ground of the device to be controlled. Normally open - Is a contact that does not flow current in its normal state. Energizing it and switching it on will close the contact, causing it to allow current flow.

***Ground Output* - Gray NC (*Normally Closed = Current Flow*) if between limits** Connect to the ground unless you exceed limits. Normally closed - Is a contact that flows current in its normal state. Energizing it and switching it on will open the contact, causing it to not allow current flow.

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 9V *Normally Open*. The display will stay in Settings Mode until it is programmed.

Setting up low and high voltage

Setting mode starts as power comes on without starting Engine and will stay at each setting position for 5 seconds for adjustments to be made. While in Settings Mode, use the push buttons on the device face to change the voltage limits settings in increments of 00.10 at a time, up to a maximum of 16V. The first value is low voltage setting. The second value is high voltage setting. The third setting is for setting NO or NC then it moves into gauge function.

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.

How to Calibrate Battery Voltage

On powerup, normal startup timed menu displays, where you set upper and lower alarm limits and N.O. or N.C. for output. Any time after that, press both buttons for more than 5 seconds, until you see "CAL" displayed. Release buttons. Press left button for up, right button for down to whatever voltage you want it to read.

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Technical Support

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FOR QUICK ANSWERS (**Q&A**) TO YOUR QUESTIONS

This product carries a limited Lifetime Warranty.
This warranty is limited to replacement or repair of the unit at the discretion of Intellitronix.