



## EZ460-EQ Installation Guide

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The installation of the EZ460-EQ can have a major impact on the device performance. Care should be given to physical placement of the device as well as the connections made during installation.

### **Plan the installation:**

Locate and verify a constant (un-switched) +12 VDC or +24 VDC power supply, the chassis ground, and the Equipment/asset ignition line or other key operated line.

### **Place the EZ-460-EQ in the Equipment/Asset:**

The EZ-460-EQ features an internal cellular and GPS antenna. The device is weatherproof and can be placed either outside or inside the Equipment/asset with the **label facing away from the sky**. Ideal device location is to mount the unit horizontally, in a concealed spot if possible inside the vehicle. The best location is high under the dashboard, close to the front windshield. Ensure that the device has a clear eye to the sky. GPS units do not like Metal, so ensure that there is NO metal dashboard above the unit. If a secure spot inside the Equipment/Asset is not available, then it can be mounted outside on the Equipment/asset. Please take care to mount securely and route the wiring harness in a concealed manner.

### **Connect POWER, GROUND, and IGNITION:**

The power input (red wire) must be connected to a constant (un-switched) +12 VDC or +24 VDC supply; preferably, connected directly to the Equipment/asset battery terminal or as close to it as possible.

The ignition input (white\* wire) must be connected to the Equipment/asset ignition or another appropriate key operated line, such as ACCESSORY, ensuring that power to the ignition wire is available only when the Equipment/asset ignition is on.

The ground line (black wire) must be connected to chassis ground.

Please verify that your power, ground and ignition wires are connected correctly.

### **Verify:**

Successful device operation can be verified by observing the LED indicators on tops side of the end of the unit where the wiring enters the device.

A solid **GREEN LED** indicates that the device has a GPS lock.

Blinking = Searching      Solid = GPS Signal is OK

A solid **AMBER LED** indicates that the device is connected to the cellular network.

Fast Blinking = Searching      Solid = Cellular signal is OK

**NOTE:** If the **AMBER LED** does not turn solid after 2 or 3 minutes, cycle power to the device and take the Equipment/asset for a drive. Verify LEDS after the drive.

## Harness Diagram

SIGNAL	DESCRIPTION	WIRE COLOR
VCC	Primary Power Input	RED
GND	Ground	BLACK
IN-0	Ignition Biased low	WHITE*
IN-1	Input 1 Biased high	BLUE
Note:	There are a number of wires that are not used, so trim and tape off all wires that are not utilized.	

### Input Bias:

Inputs are biased either high or low. This describes the resting state of the input. The input of the EZ460 is biased high.

A biased HIGH input will require a voltage transition to ground to trigger an input event.

A biased LOW input will require a voltage transition to at least +4 VDC to trigger an input event.