



Wired Device Installation Guide

LMUs with internal antennas should be placed to maximize their GPS performance with the white label facing the sky. A typical location is under the dash close to the front wind-shield. Attach the LMU to the solid body of the vehicle, not to plastic panels. The LMU can be placed out of sight by removing interior trim and molding to expose available space, then replacing the trim once the LMU is in place.

Connect power, ignition, and ground.

- The **power** input (red wire) must be connected to a constant (un-switched) +12 VDC or +24 VDC supply; preferably, connected directly to the vehicle battery terminal or as close to it as possible. This connection point should be fuse protected to not more than 5 Amps.
- The **ground** line (black wire) must be connected to chassis ground. Failure to connect these lines in the manner described may result in discharge of the vehicle battery. Once the ground and power wire are installed, the Amber LED light - located next to the wiring on the LMU - will indicate that the unit is receiving power.
- The **ignition** input (white wire) must be connected to the vehicle ignition or another appropriate key operated line, such as ACCESSORY, ensuring that power to the ignition wire is available only when the vehicle ignition is on. Turn your vehicle on/off a few times and check your online application for “Engine On” and “Engine Off” reports to ensure the ignition wire is installed correctly.

PTO Input

The **PTO input** (free blue wire) can be wired as a way of monitoring the status of your vehicle’s PTO system with every report that the tracking device sends. This PTO input (blue) coming from the wiring harness puts out a constant voltage. Although it does not necessarily need to be connected directly to the vehicle PTO, it must be connected to a power source relating to the PTO in the vehicle that is in.

The power source should be hot (receiving null to 12V) when the PTO is **not** in use and then receive a continuous ground when the PTO is being used. Most vehicle systems ground the switch when the PTO is being used. If it is the reverse case, let us know and we can adjust the profile to reflect this.

If the PTO switch inside of your vehicle does not switch completely to ground but instead reduces voltage, you can use a relay to get a true ground. The wiring of this relay allows the PTO wire to ground out whenever a 12v signal from your switch is received.

PTO Ground Switch Relay

