

## Prerequisites

### Required Information *[needed for final activation of hardware - see last page]*

- Name of asset (ex: Trailer #20)
- Detailed information about the asset (year, make, model, VIN, license plate, etc.)
- State, area, organization, or group the asset belongs to (ex: North Region, MN tankers, etc.)
- ESN of each device to be installed (ESN is found on the back of each unit with a barcode)
- Current hour reading

### Required Equipment



LMU



Antenna



Power Harness



Fuse Taps  
*2 Standard, 2 Mini*

### Required Tools

- Drill and assorted drill bits
- Slotted and Philips Torx bits (in some cases you may need tamper resistant Torx bits)
- Panel removal tool or plastic pry bar
- Small socket set



### Before You Begin

**TURN TO THE LAST PAGE - WRITE DOWN THE REQUIRED INFORMATION!!!**

When determining the location, take the following points into consideration:

- Located within 5 feet of the power, ground and ignition connections
- Located within 8 feet of where the antenna will be mounted
- Protected from moisture, high amounts of dust, and vibration against other parts
- Rigidly attached to the vehicle to reduce any damage from vibration
- Mounted out of the way so it does not interfere with normal operation of the vehicle

## 3-Wire Installation

**STEP ONE** Chassis ground-Connects to the BLACK wire of the Power Harness

*A clean, bare-metal chassis ground point, battery ground, or electrical grounding bus bar where the resistance between the battery of the vehicle and this point is less than 2 ohms.*

**STEP TWO** Constant 12V+ (Battery)-Connects to the RED wire of the Power Harness

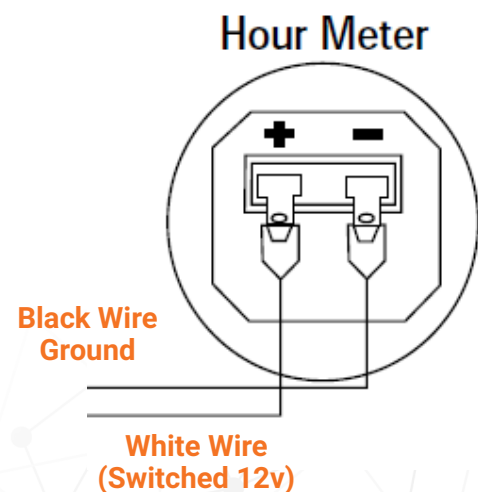
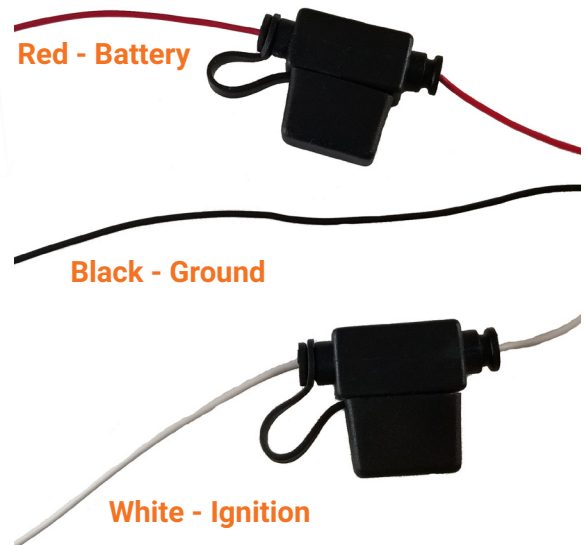
*A source of positive 12Vdc voltage that continuously has power regardless of the status of the ignition switch or any accessories. This source should supply between 11 and 14.5 volts of power normally and be capable of supplying at least 3A of current.*

**STEP THREE** Switched 12V+ (Ignition/hour-meter)-Connects to the WHITE wire of the Power Harness

*A source of positive 12Vdc voltage that shows 0 volts when the engine is not running and battery potential (usually 11-14.5 volts) when the engine IS running.*

**NOTE:** The recommended point of connection for the BLACK and WHITE wires in a Mobile Equipment Manager installation would be directly at the factory hour-meter. This will provide the most accurate monitoring of engine runtime. Contact Pedigree Technologies if you have questions about alternate connection points.

*This is acceptable assuming that the (+) wire for the hour-meter is the one that transitions from ON to OFF with the engine. **If your particular hour-meter has a switching GROUND connection, this method is NOT acceptable!***



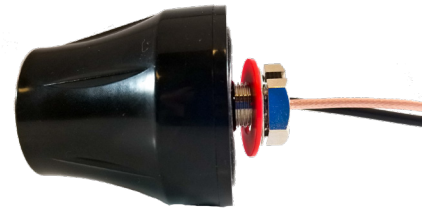
## Antenna Connection



- Antenna clearly marked **"THIS SIDE FACES THE SKY"**
- The antenna should be placed with a **clear view to the sky**, with no metal obstructions above or overhead.
- Mounting the antenna to the bottom side of a plastic dash panel is acceptable, but a window location without obstruction to the driver is preferred.

### DOME ANTENNA

Fit the dome antenna so that the dome is on the exterior of the asset. If needed, drill a hole to feed the cable through. Fasten in place using the nut and washer.



*Dome Antenna*

### PADDLE/RECTANGULAR ANTENNA

Use adhesive tape/pad and attach to the window in a place that does not obstruct the view of the driver, or attach inside the plastic dash panel in an area that does not have any metal between the placement of the antenna and the windshield.

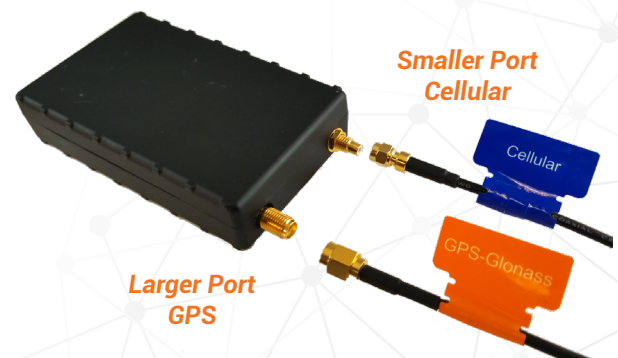


*Paddle/Rectangular Antenna*

The antenna includes two attached cables that will attach to the telematics device. The ports are unique and only fit each corresponding correct port.

**Cellular:** The cable labeled Cellular fits the Comm connector which is the smaller threaded port.

**GPS:** The cable labeled GPS fits the GPS connector which is the larger threaded port.

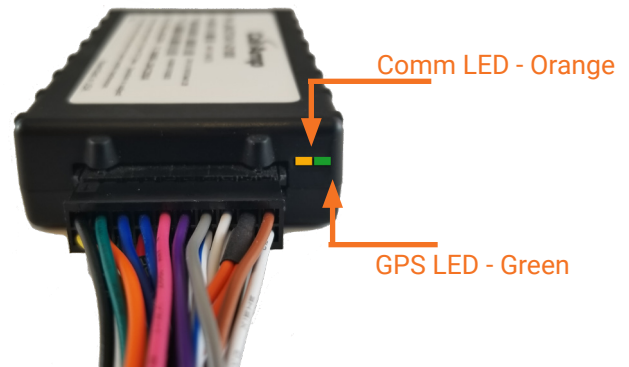


## Testing / Confirmation Steps

**CAUTION: ROPS (ROLLOVER PROTECTION STRUCTURES) FOPS (FALLING OBJECT PROTECTIVE STRUCTURES) CANNOT BE DRILLED INTO OR CUT INTO AS IT MAY WEAKEN THE STRUCTURES ABILITY TO PERFORM ITS INTENDED FUNCTION. THE ROPS/FOPS SYSTEM INCLUDES THE STRUCTURE, ITS MOUNTS TO THE MAIN FRAME AND THE MAIN FRAME ITSELF.**

**STEP ONE** Connect the power harness into the telematics device (after attaching the antenna).

**STEP TWO** The final test after installation requires the asset to be outside with clear view of the sky. Start the asset's engine and observe the LED indicator lights on the front of the LMU. Within 5 minutes, both lights should stop blinking and stay solid. If the lights continue to blink, reconfirm all connections have been made as instructed above and antenna is attached securely to the LMU.



**STEP THREE** Once the lights are solid, call your Pedigree Technologies Installation Support representative to confirm and finalize the installation.

### Install Confirmation: 701-499-0022

You will be prompted for the following information during the set up process

- Device ESN
- Name of Asset (ex. Light Tower #51)
- Year, make, and model
- VIN #
- License plate #
- Mileage  Hours