Prerequisites

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

- Name of asset* *(ex: Propane Truck #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 odometer reading
- Type of diagnostics connector, if possible *(6 pin, 9 pin square flange, 9 pin round threaded, J1962, Type II, etc.)*
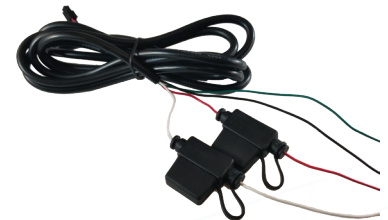
Required Equipment

LMU

Antenna

Diagnostic Y Cable**

OR

VPod II Cable
(if ordered)

OR

Power Cable
(Fleet Manager Only)

** Diagnostics Y Cables will vary depending on make, model, year of vehicle. The cable pictured may not be the exact cable shipped.

Required Tools

- Drill and assorted drill bits *(ex. to mount cradle)*
- Slotted, Philips, and/or Torx bits *(you may need tamper resistant Torx bits)*
- Panel removal tool or plastic pry bar *(to remove dash panel(s) as needed)*
- Small socket set
- Zip Ties *(to hold cabling in place)*

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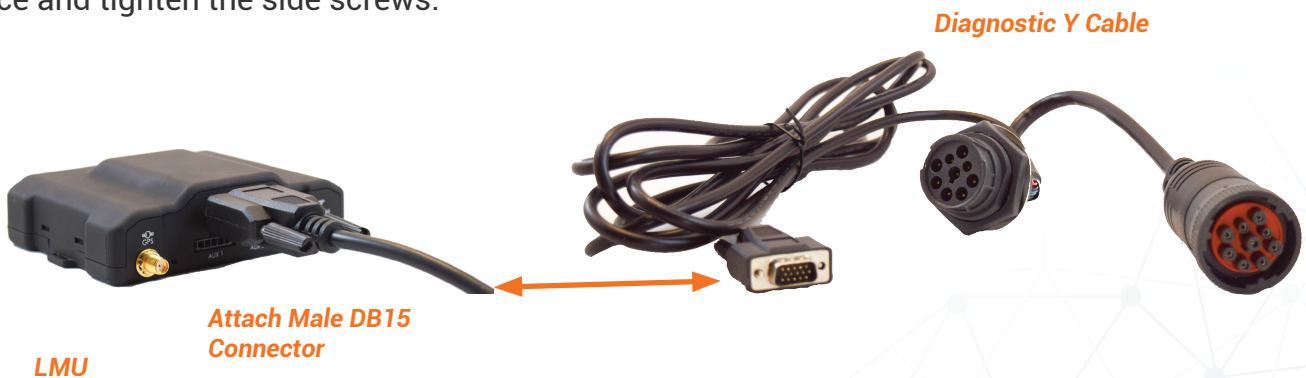
⚠️ **Before You Begin**

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

- Decide where the hardware components will be located. If necessary remove any dash panels with removal tool.
- Device should be secured within reach of the diagnostic cable to be installed.
- Must be protected from moisture, excessive dust/dirt, heat (away from heater vents) and unobtrusive to driver operation or field of view.
- Routing of the cable between the factory diagnostic port and the telematics device does not cause excessive bending/kinking or areas where vibration may jeopardize the integrity of the hardware.
- Cabling must not impede function of any rotating or moving parts (ex. Steering mechanisms, wiper mechanisms, or brake pedal)
- Ensure that the mounting location has enough integrity to accommodate the additional weight and vibration of the device.

Fleet Manager with Diagnostics - Heavy Fleet Vehicles

STEP ONE
Attach the male DB15 connector to the telematics device and tighten the side screws.

Diagnostic Y Cable

Attach Male DB15 Connector

LMU

Fleet Manager with Diagnostics - Heavy Fleet Vehicles *(continued)*

STEP TWO Remove the factory diagnostic cable from its factory mount. *(not pictured)*

STEP THREE Connect the factory diagnostic cable to the female diagnostic connector of the Diagnostic Y Cable *(rotate clockwise until it "clicks")*.

Diagnostic Y Cable

** Diagnostic Y Cables will vary depending on make, model, year of vehicle. The cable pictured may not be the exact cable shipped.

Female Connector to Factory Diagnostic Cable

STEP THREE
Replace the factory diagnostic cable with the male diagnostic connector of the Diagnostic Y Cable by installing it into the factory location previously occupied by the factory diagnostic cable.

OPTIONAL Older model trucks that have a 6 pin diagnostic cable will need a 6-pin to 9-pin adapter between the factory diagnostic cable and the Diagnostic Y Cable.

Replace Factory Diagnostic Cable with Male Diagnostic end from Diagnostic Y Cable

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Fleet Manager with Diagnostics - Light Duty/Passenger Vehicles

STEP ONE Remove the factory diagnostic cable from its factory mount *(not pictured)*.

STEP TWO Connect the factory diagnostic cable to the male diagnostic connector of the Diagnostic Y Cable.
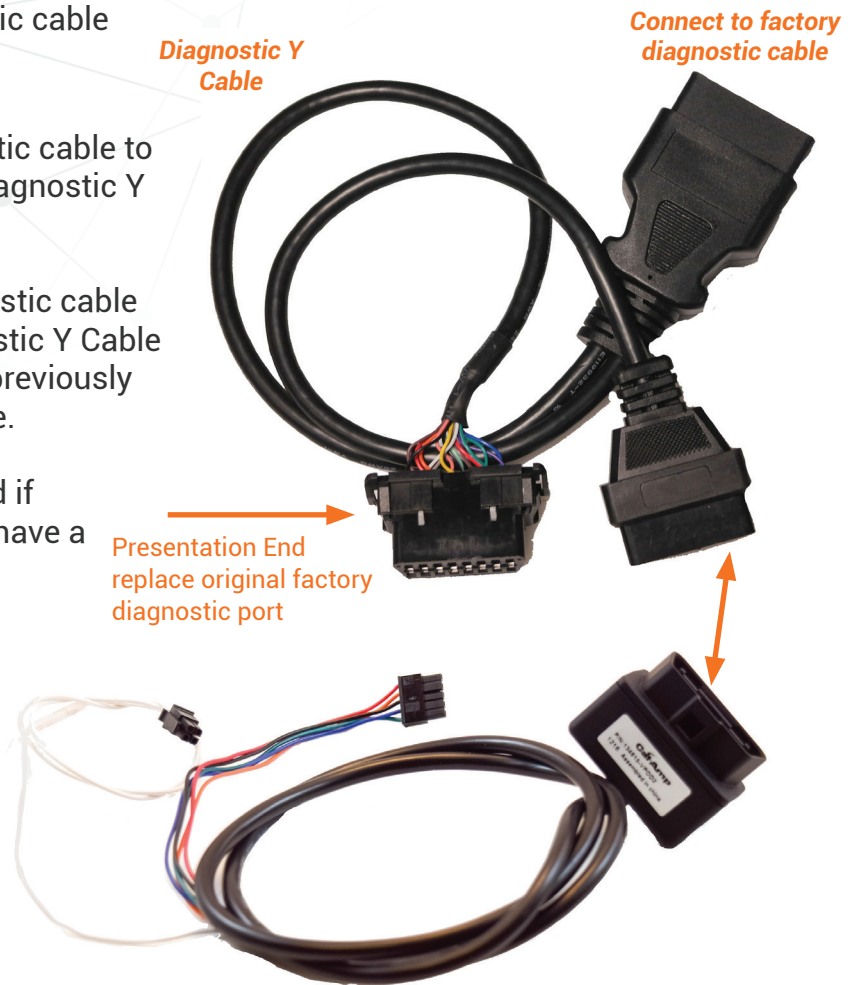
STEP THREE Replace the factory diagnostic cable with the presentation end of the Diagnostic Y Cable by installing it into the factory location previously occupied by the factory diagnostic cable.

Optional: a mounting bracket is included if the factory mounting location does not have a removable mount.

Diagnostic Y Cable

Connect to factory diagnostic cable

Presentation End
replace original factory
diagnostic port

Mounting Bracket

STEP FOUR Connect the remaining end of the Diagnostic Y Cable to the large end of the VPod II cable.

STEP FIVE Run the 5 Pin Connector end *(multi-color wire)* of the VPod cable to the telematics device and plug into the female 5 Pin connector of the ELD Harness that is/will be inserted into the Aux 1 port on the front side of the telematics device.

STEP SIX Connect the 4 Pin end *(white wire)* of the VPod cable into the power port on the back of the telematics device.

POWER

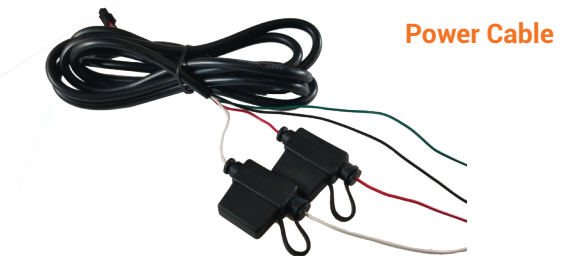**PedigreeTechnologies.com | Support: (701)-499-0022**

Fleet Manager - 3-WIRE

If your installation is for Fleet Manager only, it will be a 3 wire installation with the following power cable and not connecting a diagnostic cable.

Power Cable

STEP ONE Run the 4-pin connector to telematics device and plug into the ppwer end of the device in the 4-pin port *(labled power)*.

LMU

Power Cable

STEP TWO The Black wire *(ground)* should be securely fastened to a grounded screw or chassis ground.
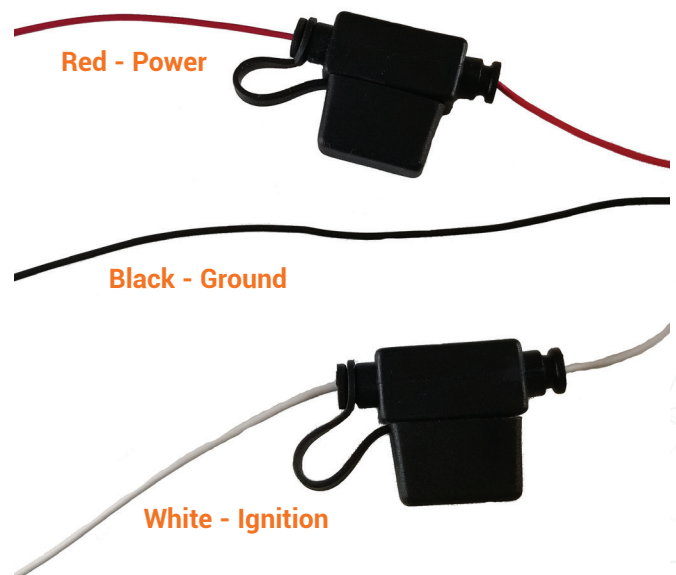
STEP THREE The Red wire *(power)* should be connected to a constant 12-24VDC power source found at the key source or the fuse panel.

(Circuit taps are provided in the hardware kit if needed, however soldering is the recommended connection.)

Red - Power

Black - Ground

STEP FOUR The White wire *(ignition)* is the ignition event wire that is best installed direcly to 12v switched ignition wire.

Ensure that power to the ignition wire is availabe ONLY when the vehicle ignition is turned on. All makes and models of vehicles are different - we recommend knowledge of the particular vehicle's constant and ignition wiring prior to installation.

The green wire is not used.

White - Ignition

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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.

PUCK/DISC ANTENNA
Peel sticker and attach to the inside of the windshield in a lower corner where it does not obstruct the view of the driver.

Puck/Disc 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.

THIS SIDE FACES THE SKY

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.

Smaller Port Cellular

Larger Port GPS

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Testing / Confirmation Steps

• Start the asset's engine.
• LED indicator lights will blink then turn solid. (Green/GPS & Orange/Comm)
• If the lights continue to blink, reconfirm all connections.

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. Service Truck 51)

• Year, make, and model

• VIN #

• License plate #

• Mileage   Hours