

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 and engine hours
- Type of diagnostics connector, if possible (6 pin, 9 pin square flange, 9 pin round threaded, J1962, Type II, etc.)

Required Equipment



LMU3640



**Accessory
Harness**



5C823 Adapter

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)



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.
- ELD Malfunction Indicator light must be mounted in a location that is visible to the driver from the normal driving position.

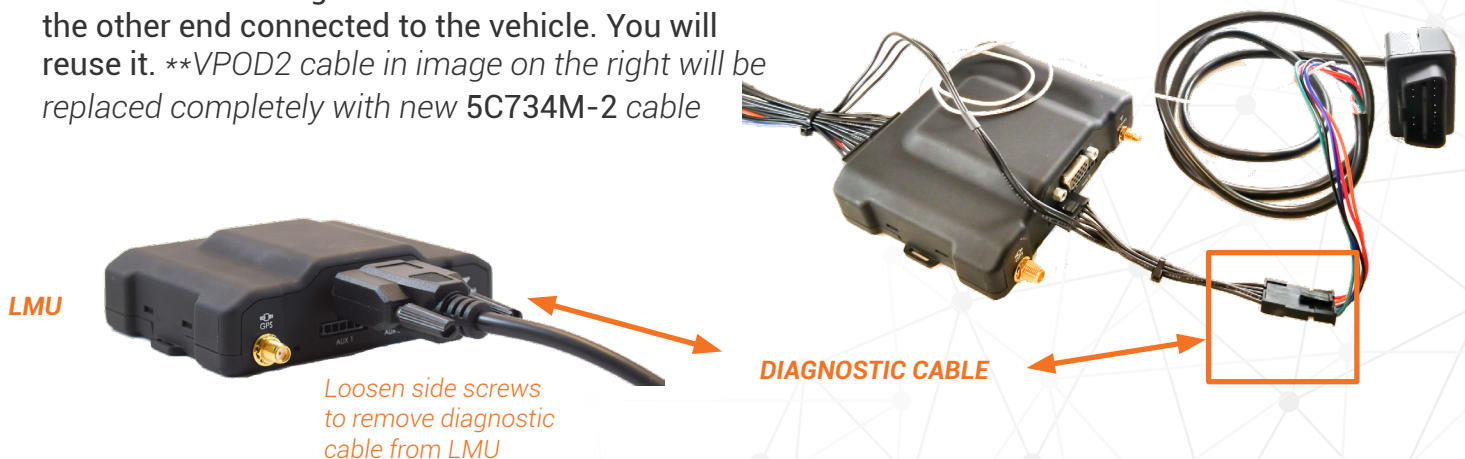
Disconnect LMU42xx

OPEN DASH

First open dash and locate LMU. Unit location can vary by vehicle, generally located behind the instrument cluster, steering wheel column area, or fuse panel. Following the antenna wires from the windshield may help indicate location.

DIAGNOSTIC CABLE

Disconnect the diagnostic cable from LMU. Leave the other end connected to the vehicle. You will reuse it. **VPOD2 cable in image on the right will be replaced completely with new 5C734M-2 cable



Disconnect LMU42xx (continued)

4 PIN POWER HARNESS (IF APPLICABLE)

Disconnect the 4 pin power harness from LMU (if applicable).



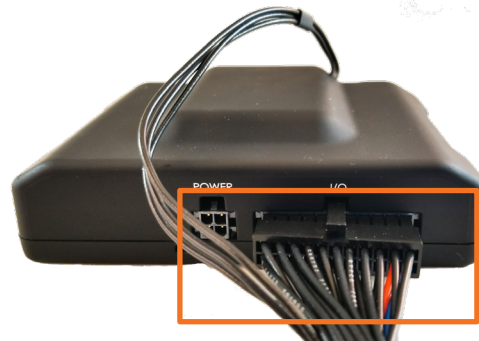
5 PIN AUX PORTS

Disconnect any accessories from the 5 pin AUX ports.



22 PIN I/O PORT

Disconnect any accessories from the 22 pin I/O port.



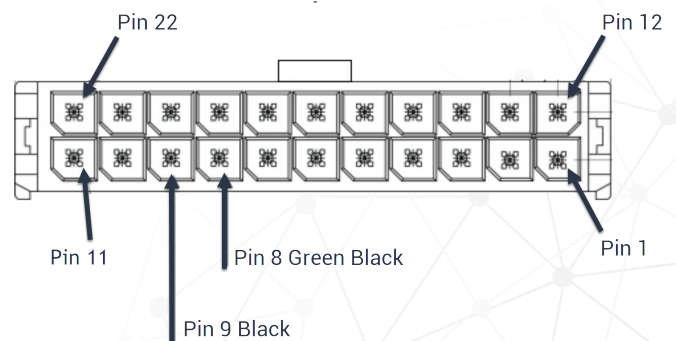
PTO (IF APPLICABLE)

Disconnect PTO signal wires from 22 pin I/O harness. Leave connected on the vehicle side, you will reuse them.

MARK WIRES

Make sure to mark which wires came from which connection on the LMU

- Pin 1 of the 22 pin harness is for PTO 1
- Pin 2 of the 22 pin harness is for PTO 2



Disconnect LMU42xx (continued)

ELD MALFUNCTION INDICATOR LIGHT

Disconnect the ELD malfunction indicator from the 22-pin I/O harness. Leave in vehicle, you will reuse it.



ANTENNA

Remove antenna by unscrewing connectors from LMU. The new LMU has an internal antenna and this one is no longer needed. You may remove entire antenna.



Puck/Disc Antenna



REMOVE Remove all other accessories from vehicle - if desired (antenna, old accessory harness, 4-pin power harness, etc)



Paddle/Rectangular Antenna

Install LMU3640

LMU3640 Location

Find a location inside the dash for the new LMU (LMU3640)

- Must not be obstructed by metal plates or large metal objects
- Label side must be facing towards the sky
- Must not be located where it can contact moving or HOT parts such as wiper arm mechanism or heater ducts
- Secure to dash or nearby structures



CONNECT 5C823 ADAPTER

Connect the 5C823 diagnostic adapter to your vehicle diagnostic cable. Hand tighten screws.



CONNECT 5C823 ADAPTER TO LMU

Connect the 5C823 diagnostic adapter to LMU's diagnostic port.



Install LMU3640 (continued)

CONNECT MOLEX (OBD II only)

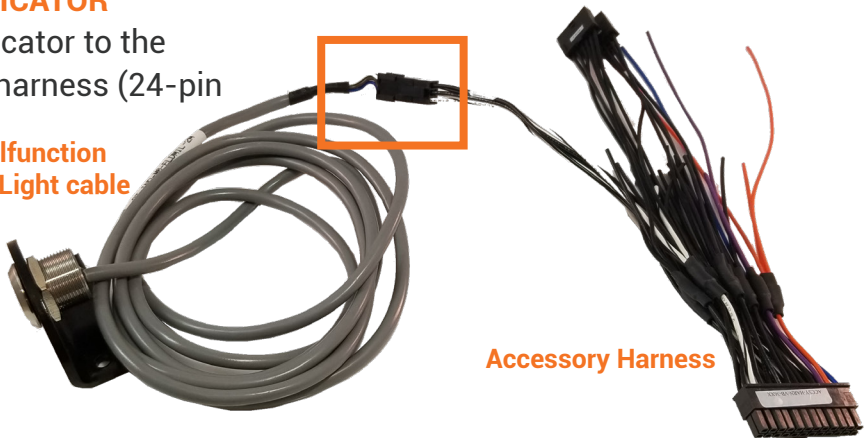
Connect the molex end of the 5C734M-2 diagnostic cable into the smaller port on the back of the LMU3640.



CONNECT ELD MALFUNCTION INDICATOR

Connect the ELD malfunction indicator to the 6-pin port on the new accessory harness (24-pin I/O harness).

ELD Malfunction
Indicator Light cable



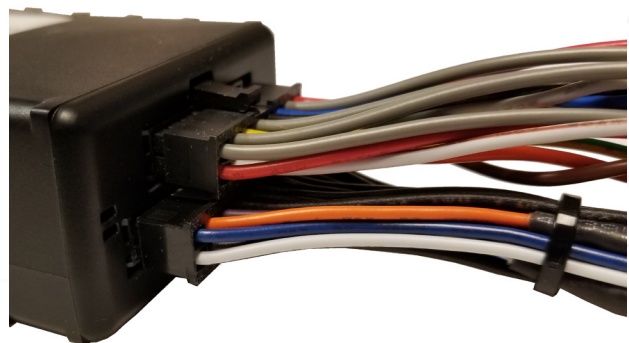
CONNECT PTO (IF APPLICABLE)

Connect the PTO wires from your vehicle to the PTO wires on the 24-pin I/O harness. They are labeled:

- PTO 1 goes to the BLUE wire ("PTO 1")
- PTO 2 goes to the ORANGE wire ("PTO 2")

CONNECT 24-PIN ACCESSORY HARNESS

Connect the 24 pin I/O harness to the LMU.



Testing / Confirmation Steps



Place the ELD Instruction Booklet inside the vehicle (required by law). If required, adhere the ELD Sticker on the driver side of the vehicle near the driver's door. The final test step requires the asset to be outside with a clear view of the sky.

- **Start** the asset's engine and let it run outside for 5 minutes.
- LED indicator lights will blink then turn solid. (Green/GPS & Orange/Comm)
- If the lights continue to blink, reconfirm all connections.

Blue = Bluetooth/WiFi

Orange = Comm



Red = Power

Green = GPS

Call Pedigree Technologies support to confirm installation **before** replacing any of the dash panels you may have removed during cable 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