

Prerequisites

Required Information

- Name of asset (*ex: Tractor #26*)
- 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*)

Required Parts



**12V Relay &
Relay Socket**
(supplied)



Inline Fuse Holder (2)
(supplied)



Accessory Harness
(type determined by
LMU)

Required Tools

- Drill and assorted drill bits (*to attach mounting bracket*)
- Slotted and Philips screwdrivers in #1 and #2 sizes
- Cable ties



Before You Begin

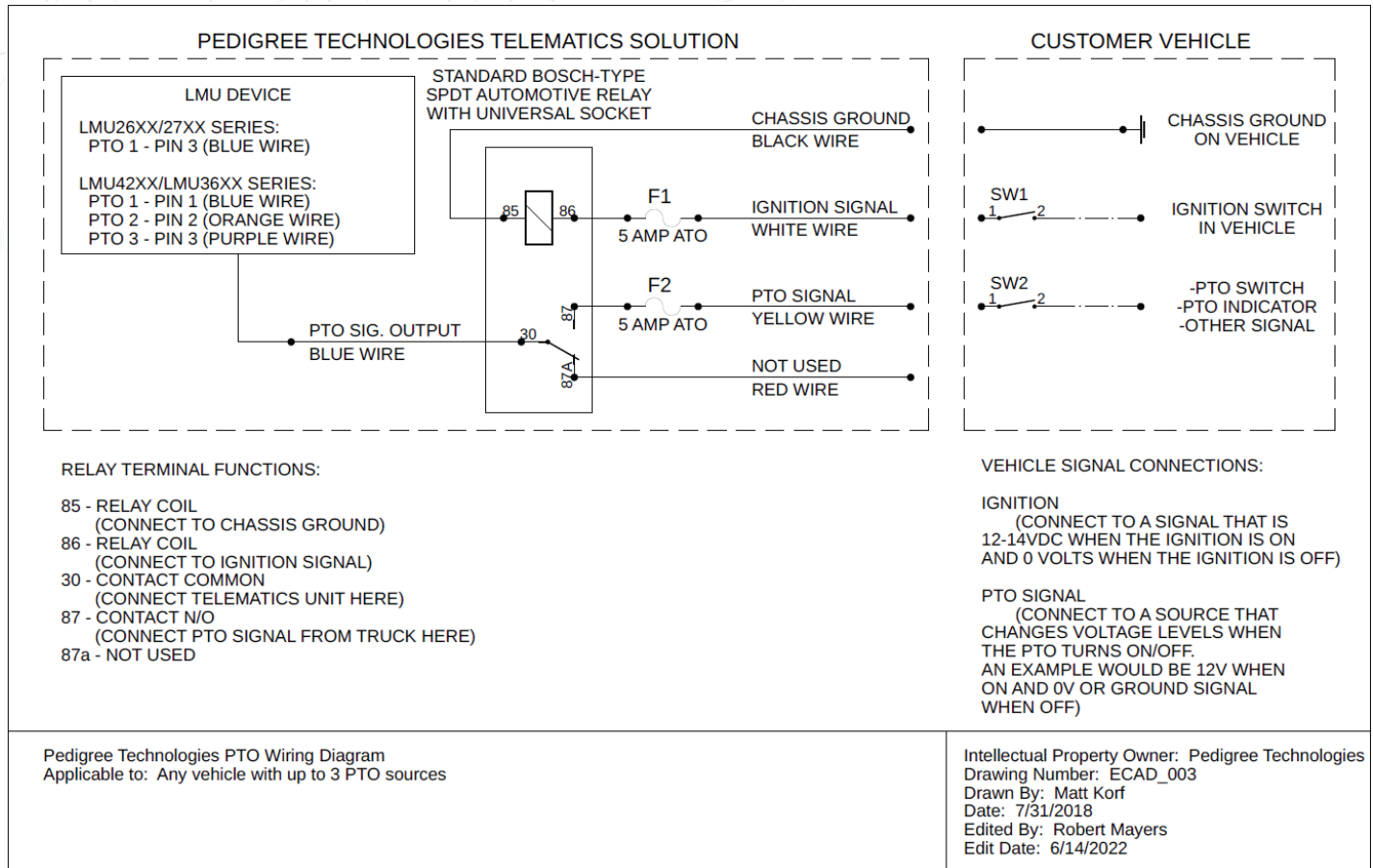
TURN TO THE LAST PAGE - WRITE DOWN THE REQUIRED INFORMATION!!!

- Decide where the hardware components will be located and remove any dash panels with removal tool.
- 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.

PTO Wiring Steps

PTO WIRING DIAGRAM

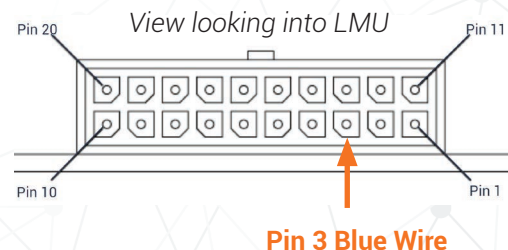
Use the wiring diagram below, following the type of telematics device for any vehicle with a single PTO for LMU 26xx/27xx series, and multiple PTO set up for LMU 42xx series or LMU 3640.



STEP ONE - CONNECT LMU TO 12V RELAY

LMU 26xx/27xx Series

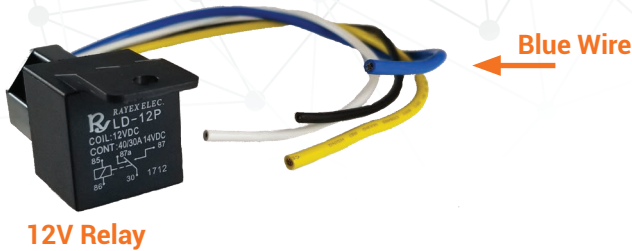
Attach the blue relay wire to the blue wire on pin 3 on the 20 pin power harness attached to the telematics device.



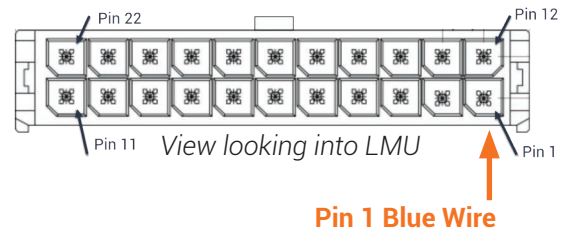
PTO Wiring Steps *continued*

LMU 42xx Series

Attach the blue wire on the 12V relay to the blue wire on pin 1 on the 22 pin accessory harness attached to the back of the telematics device. (If 22 Pin I/O Harness is included, see next section.)

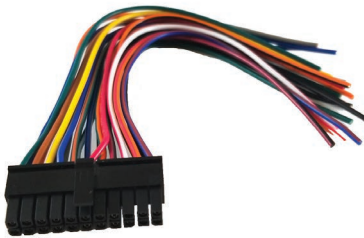


LMU 42xx Series

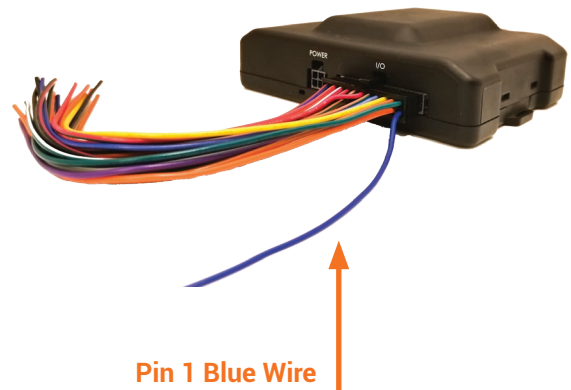


Connect 22 Pin I/O Harness

If needed, connect the I/O harness to the 22 pin port on the back of the telematics device. Connect blue wire on the 12V relay to the blue wire on pin 1 of 22 pin I/O harness.



22 Pin I/O Harness

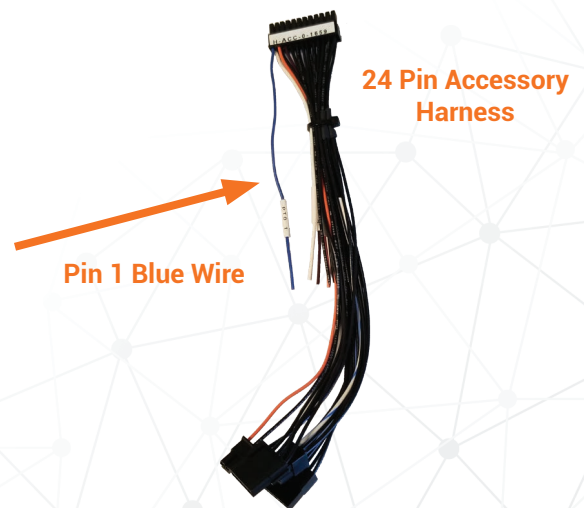


LMU 3640

If needed, connect the accessory harness to the 24 pin port on the back of the telematics device. Connect blue wire on the 12V relay to the blue wire on pin 1 of 24 pin accessory harness labeled PTO 1.



LMU 3640

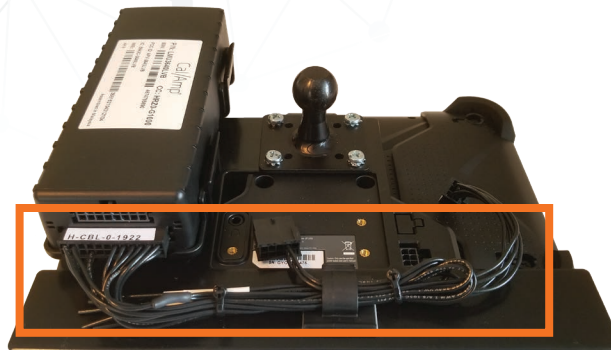


24 Pin Accessory
Harness

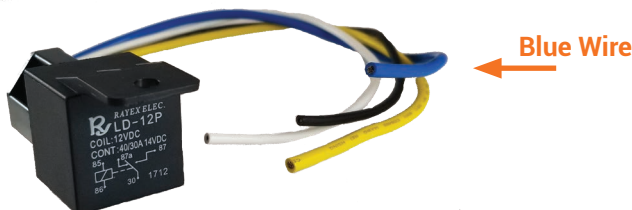
PTO Wiring Steps *continued*

LMU 3640 (Cab-Mate Flex All-in-one)

The accessory harness on the Cab-Mate Flex (All-in-one) is already connected to the LMU. You will need to free the Input 1 wire from the bundle. (Image below shows accessory harness completely disconnected. You may or may not need to disconnect the cable completely to access the input wire.) Connect blue wire on the 12V relay to the wire on pin 1 of 24 pin accessory harness labeled Input 1. (For PTO 2, use the Input 2 wire of the accessory harness to connect to a PTO 2 relay.)



Cab-Mate Flex with accessory
harness attached



12V Relay

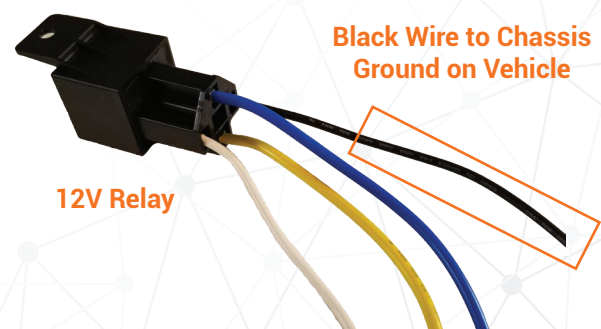


Cab-Mate Flex Accessory Harness

STEP TWO - CONNECT 12V RELAY GROUND

Connect 12V Ground

No matter which LMU you are connecting, the Black 12V relay wire connects to the chassis ground on vehicle.



12V Relay

PTO Wiring Steps *continued*

STEP THREE - CONNECT 12V RELAY TO IGNITION

Connect 12V Ignition

Connect the white 12V relay wire to the vehicle ignition switch. Use the inline fuse holder between the 12V Relay and the vehicle ignition wire.



STEP FOUR - CONNECT 12V RELAY TO PTO SOURCE



Connect 12V PTO SIGNAL

Connect the yellow 12V relay wire to the PTO switch. Use the inline fuse holder between the 12V Relay and the PTO source wire.

Connect to a source that changes voltage levels when the PTO turns on/off. An example would be the 12V when on and 0V or ground signal when off.

***Turn to the last page and record the PTO voltage. You will be asked by the Pedigree Technologies Install support team upon verification of your installation for the PTO On Voltage and PTO Off Voltage.*

EXAMPLE PTO SIGNALS

12V ON	0V OFF
0V ON	12V OFF
0V ON	4.5V OFF

Testing / Confirmation Steps

STEP ONE

With ignition on and vehicle engine running, the telematics device LED lights on the side will begin to blink slowly, then quickly and eventually the lights should be solid.



LMU 26xx/27xx Series



LMU 42xx Series



LMU 3640

STEP TWO

Call Pedigree Technologies installation support to confirm and finalize the installation before replacing any removed dash panels.

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
- PTO On Voltage PTO Off Voltage