

Prerequisites

Required Information

- Name of asset (*ex: Pickup #26*)
- 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 Pickups, etc.*)
- ESN of each device to be installed (*ESN is found on the back of each unit with a barcode*)

Required Parts



Seatbelt Sensor &
Actuator

Required Tools (not provided)

- Panel removal tool (to access LMU wiring)
- Slotted and Philips screwdrivers (to remove door sill plate/panels)
- 3M tape** (to attach sensor and actuator)
- adhesive promoter** (prepare surface)
- 2 conductor cable (connect sensor to LMU)
- isopropyl alcohol (clean surface)
- cable ties (secure wiring)

** May be provided in kit.



Before You Begin

- 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*)

Installation Steps

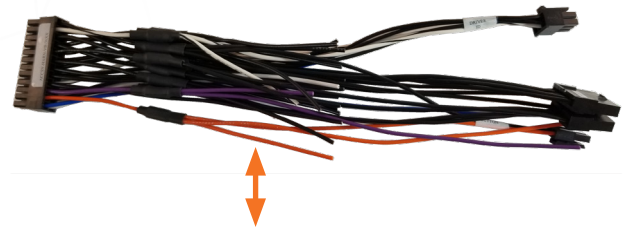
STEP ONE

Install Fleet Manager (or Fleet Manager with Diagnostics) solution as per directions, if new installation which will vary based on LMU type and vehicle make/model/year.

If adding seatbelt monitoring device to existing LMU, remove dash panels to allow access to currently installed LMU.

STEP TWO

Run a 2-conductor cable from the orange wire on the 3640 LMU accessory harness to driver's seatbelt buckle area. The standard method would be under the carpet, away from areas where foot traffic would be.



Connect 2-conductor cable to the orange wire of the accessory harness attached to LMU3640. Use either the short or long wire.

Minimum wire gauge: 22AWG

STEP THREE

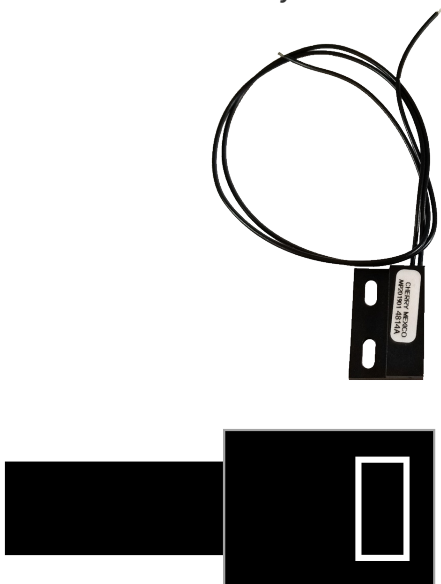
Mount the seatbelt sensor.

STEP 3A Clean both the seatbelt tab and buckle with isopropyl alcohol.

STEP 3B Determine the best mounting area for the sensor and actuator on the backside of the buckle and buckle insert of the seatbelt apparatus.

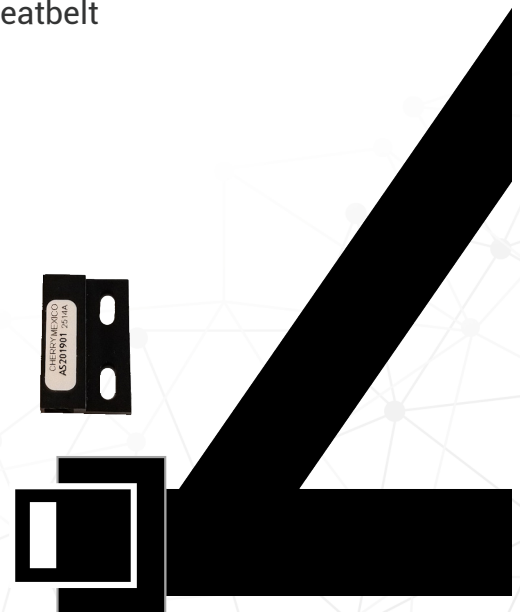
Sensor (2 wires)

Mounts to the button/buckle side of the seatbelt by the floor



Magnet Actuator (no wires)

Mounts to the belt side of the seatbelt



Testing / Confirmation Steps

Proper Distance

When buckled, the actuator and sensor must be no more than 0.4 inches apart from each other for proper function.



STEP 3C Apply adhesive promoter onto the desired mounting areas (do not over apply as it may leave discoloration on plastics)

STEP 3D Use 3M tape to apply the sensor to the back side of the buckle and apply the actuator to the back side of the buckle insert of the seatbelt apparatus. (not pictured)

STEP FOUR

Connect the two wires from seatbelt sensor to the 2-conductor wire routed in step two. The order in which they are connected is not important.



STEP FIVE

Secure all loose wires with cable ties.

STEP SIX

Connect 1 of the wires at the LMU end to digital input 2 (orange wire connected to LMU)

STEP SEVEN

Connect the 2nd wire at the LMU to constant battery power

STEP EIGHT

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