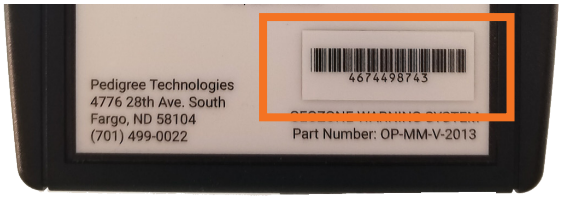
Prerequisites

Required Information

- Name of asset *(ex: Mini Excavator #62)*
- Detailed information about the asset *(year, make, model, serial #, 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 front of each unit with a barcode)*



Required Equipment

Main Module

8 ft Power Harness

Circuit Taps (6)
3 sizes / 2 of each included

Required Tools

- Standard hand tools for dash disassembly.

Before You Begin

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

- Device must be located where the driver can easily see and hear warnings from the normal operating position.
- Device must be located within 8 feet of the power, ground and ignition connections.
- Device must be protected from direct sunlight or high levels of heat.
- Device must be protected from moisture, high amounts of dust, and vibration.
- Device must be mounted out of the way so it does not interfere with normal operation of the vehicle. The suggested method is via low profile suction cup window mount or flange mounted to a metal structure.
- If at all possible, device must have a clear view to the sky.

3-Wire Installation

STEP ONE Chassis ground-Connects to the BLACK wire of the power harness.

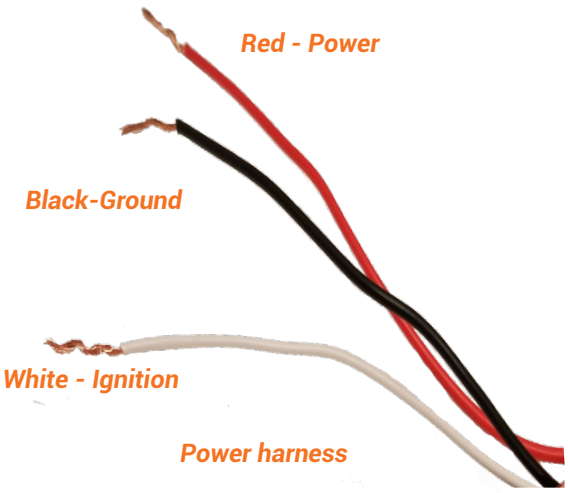
A clean, bare-metal chassis ground point, battery ground, or electrical grounding bus bar where the resistance between the battery of the vehicle and this point is less than 2 ohms.

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

A source of positive voltage that continuously has power regardless of the ignition switch position or any accessories. This source should supply at least 13.5 volts and be rated for 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 voltage that shows 0 volts when the engine is not running and battery potential (usually 11-14.5 volts) when the engine IS running.

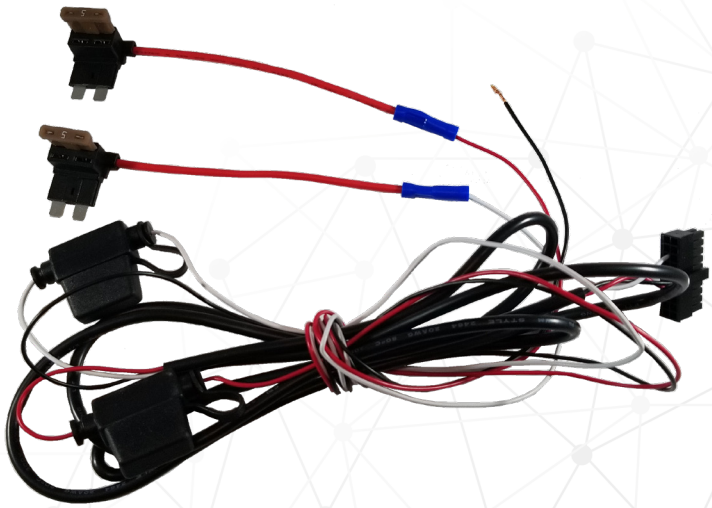


CIRCUIT TAP OPTIONAL CONNECTION

If not using a direct wiring method, circuit taps are an option. You'll find three styles/sizes of circuit taps included with the hardware shipment; ATC, ATM/mini and Micro2 styles.

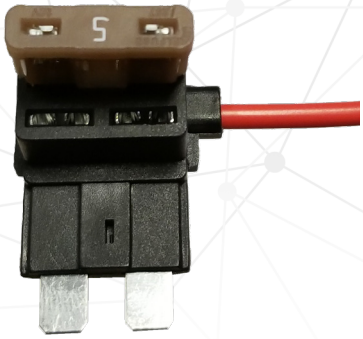
Connect one circuit tap to the red wire of the power harness. See source description in step two above to determine which fuse in the vehicle is best to utilize.

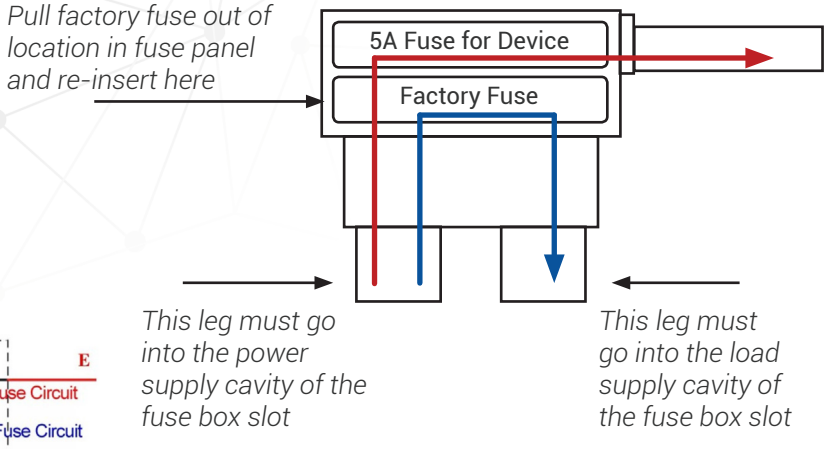
Connect one circuit tap to the white wire of the power harness. See source description in step three above to determine which fuse in the vehicle is best to utilize.

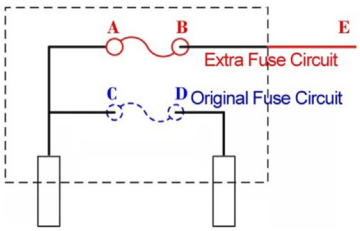


Installation *continued*

Must not use this product with fuses any larger than 20 Amps!

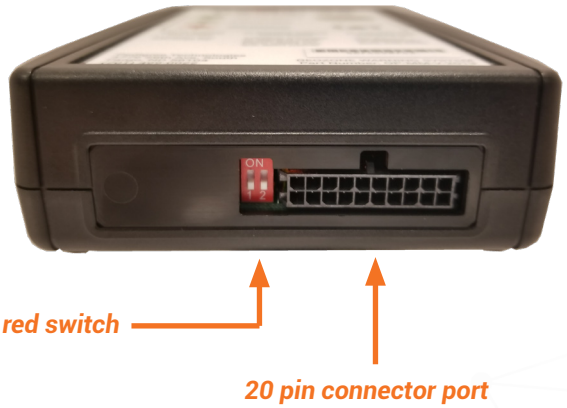






STEP FOUR

Insert the 20 pin connector of the power harness into the 20 pin connector on the bottom of the main module.



STEP FIVE *(passenger vehicle only)*

The red switch controls the volume of the alarm. For passenger vehicles, slide the left switch to the lower position (OFF) to decrease the volume level. Leave switch in the upper postion (ON) for heavy equipment.

STEP SEVEN Secure Geozone Warning System to an appropriate area of the vehicle so it is readily visible by the driver in the normal operating position. Mounting hardware is NOT included.

Best Practices - Developed by the Surface Haulage Safety Task Force in Cooperation with MSHA

ROPS (ROLLOVER PROTECTIVE STRUCTURE) AND FOPS (FALLING OBJECT PROTECTIVE STRUCTURE)

A ROPS/FOPS design is required to be certified by the manufacturer to comply with specific structural requirements.

The ROPS/FOPS system includes the structure, its mounts to the main frame, and the main frame.

Any repair or unauthorized modification made to ROPS/FOPS voids the certification unless specifically approved by the manufacturer or a registered professional engineer familiar with ROPS and FOPS.

ROPS/FOPS cannot be welded on, drilled into, cut into, repairs made to corrosion, or anything else that weakens the structure's ability to perform its intended function.

Bent, deformed, or broken ROPS/FOPS structure components, including mounting brackets, cannot be repaired.

ROPS/FOPS should be inspected daily for damage or loose bolts.

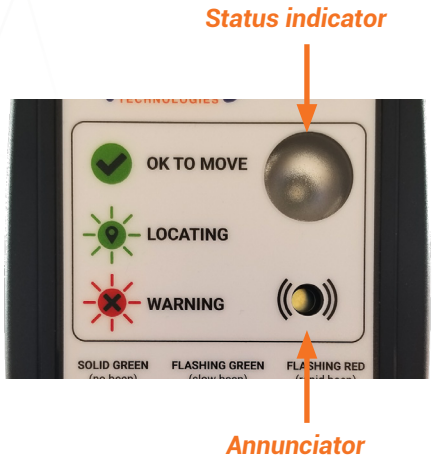
Every 1000 hours, or as specified by the machine or ROPS/FOPS manufacturer, the mounting bolt torque must be checked, and any missing or broken bolts must be replaced with manufacturer’s specified bolts.

U.S. Department of Labor
Mine Safety and Health Administration

Testing / Confirmation Steps

STEP EIGHT

1. The final test after installation requires the asset to be outside with a clear view of the sky.
2. Start vehicle and check the status indicator located on front of the main module.
3. Upon initial power up and while GPS location is being determined, a slow beep and green light flash will occur.
4. When GPS location has been found and all status' are in an OK state, the status indicator will turn solid green, and beeping will cease.
5. Once the light is solid green, call your Pedigree Technologies Installation Support representative to confirm and finalize the installation.



STEP NINE Call Pedigree Technologies installation support to confirm and finalize 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. Loader 51)
- Year, make, and model
- VIN #
- License plate #
- Mileage Hours