

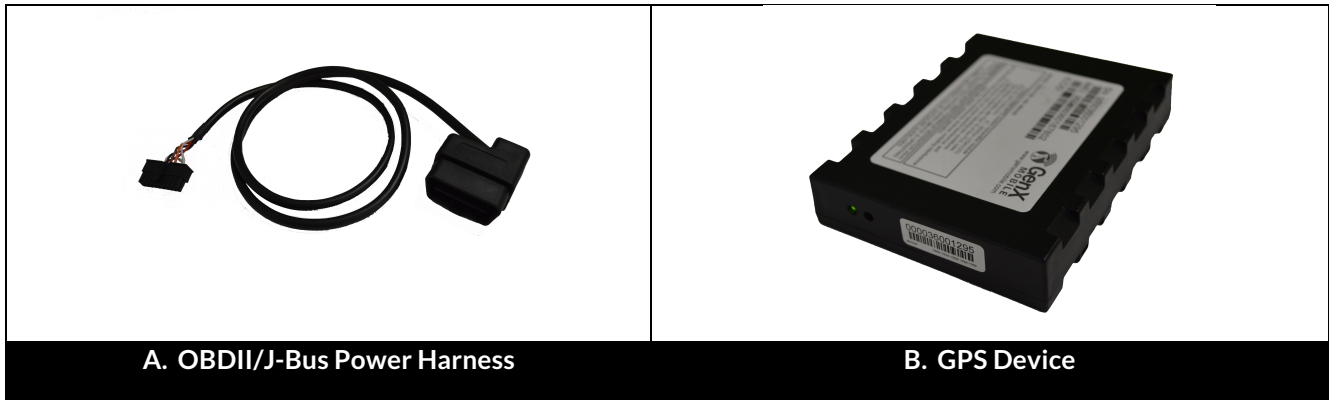
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“Plug in” Installation Instructions

You will need the following tools:

- Torque Seal
- Electrical Tape
- Zip Ties

There are 2 components to the GPS device:



Components must be installed in the following order:

- A. Power harness**
- B. GPS device**

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A. Installing the Power Harness

Connecting OBDII/J-Bus Power Cable



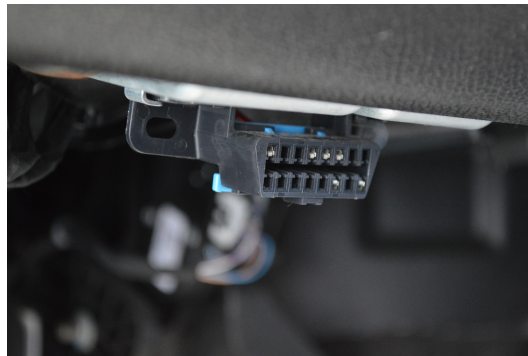
FieldLogix “Plug in” device includes a power harness the plugs directly into the vehicle’s OBDII port or J-Bus (heavy truck) port. Below are the two types of harness terminals we provide.



*Above image displays the OBDII male terminal (Left) and the J-Bus male terminal (Right) *J-Bus male terminal come in either 6-pin or 9-pin.**

Locating OBDII/J-Bus Port:

The OBDII or J-Bus port is generally in the lower dash area of the vehicle. It is more likely located in the driver side lower area of the dash near either the kick panel or center console. Plug the power harness into the diagnostic port.



Above image displays the OBDII port location in the lower driver side dash of the vehicle. The J-Bus port is generally located in the same area in heavy trucks.

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C. Mounting the Devices

FLX Tracking Unit:

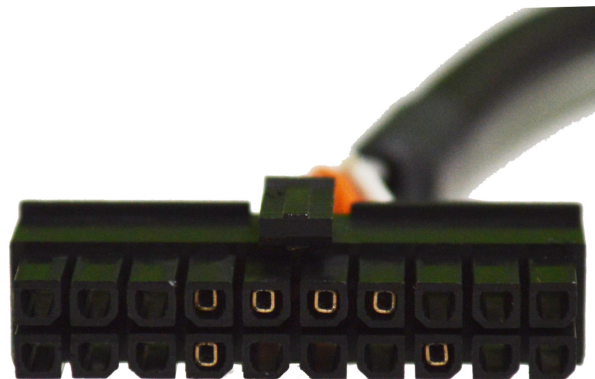


The best place to mount the unit is in an area with little to now metal blocking above the unit. Most areas in the dash of the vehicle will work just fine. AVOID areas such as underneath the radio as this would completely cover the unit in metal.

Find a secure location underneath the dashboard to mount the GPS device. DO NOT mount the unit in location that interferes with pedal operation.

The device's LEDs should be mounted facing the rear of the vehicle so that they are visible for testing purposes. Use zip ties to mount the device to an existing wiring loom or other available location.

Connect the power harness plug to the device. For hardwire installations, the Ground/black wire should be on the far left side of the device, matching the “ground” plug on the device's front panel.



Above image displays the power harness plug which connects to the FieldLogix GPS Device

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Optional FLX + Nav Connection



Above image displays the Garmin FMI Cable that connects from the FieldLogix GPS Device to a Garmin Navigation Unit

The FieldLogix + Nav Plan requires the connecting of a Garmin FMI cable from the GPS device to a Garmin Navigation device. Plug the cable to the GPS device and run the cable from the location of the device to the top of the vehicle's dash board where the Garmin screen will be mounted.

Garmin Navigation Unit



Find a location on the top center of the dash that DOES NOT BLOCK the vision of the driver to the road. Safe placement of this device is important as improper placement can create an unsafe blind spot for the vehicle operator (Please see Work Order for specified mounting method).

If using the suction cup mount to the windshield, please clean the area of the windshield with the alcohol wipe provided. Moisten suction cup then mount onto windshield.

If using dash mount with the double sided tape, please clean the area of the dash with the alcohol wipe provided. Allow cleaned area to dry. Remove mounting tape film and mount onto the dash.

Once mounted, connect the FMI cable to the Garmin Navigation Device.

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D. Test the device

In order to test the device, the vehicle must be parked outside in an open area so that it can receive a GPS lock. The device's LEDs will indicate proper operation.

Device LEDs



The Diagnostic LEDs will indicate if the unit is having issues with communication, GPS fixing and more. It is also recommended that the data server be checked to confirm that report data is arriving.

Green LED



The unit will power up as the vehicle's ignition is turned on. The Green LED will show solid for approximately 30 seconds (there may be some brief flickers initially while the processor initializes). At no other time should the green LED remain on solid for such a long period. After 30 seconds the green LED will start to flash at the following rates:

- 25 times on-off every 10 seconds when the ignition is on (this is quite rapid)
- 8 times on-off every 10 seconds when the ignition is off (this is quite slow)
- Very short blip once every 3 seconds when in sleep mode

Red LED



The RED LED flashes 2-digit codes. Roughly speaking the first digit tells you what general area is having a problem (hardware, modem, GPS, end-end service). The second digit gives specific error information. Since there can be more than one error condition the unit rotates through the error codes (for example if GPS is tracking no satellites and the modem is not registered).

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Red LED Troubleshooting

Error Codes	Error Category	Error
1 - X	Unit Specific	<p>1-1 The unit has an expired license key due to failure to resync. with the FieldLogix configuration server. Contact FieldLogix with the serial number of the device.</p> <p>1-2 Low supply voltage. This could be caused by a true low voltage condition (<8v) or a high impedance supply that dips in voltage when the current draw spikes due to modem transmit.</p>
2 - X	Modem/Cellular Related	<p>2-1 Modem module fault. RMA unit to FieldLogix for failure analysis and repair.</p> <p>2-2 No SIM inserted. Make sure SIM drawer contains SIM and is correctly seated in the socket. If it is then RMA unit to FieldLogix for failure analysis and repair.</p> <p>2-3 No signal. Check that the cellular antenna is correctly attached. Try to substitute a known-good cellular antenna to see if the antenna may be broken. If this cures the problem then reinstall new antenna. If not then RMA unit to FieldLogix for failure analysis and repair.</p> <p>2-4 Network not found. For GSM remove the SIM card and try in a known-good unit. If that unit displays the same problem then the SIM card or account may be the source of the problem.</p> <p>For CDMA check that the account is still active. If it is then RMA the unit and transfer the account to the new ESN.</p> <p>2-5 Last data session failed. This means that an attempt to establish a data session (GPRS, CDMA1x) failed. This could be because of an account problem, an incorrect APN, username or password, or simply due to network loading, temporary network outage, or poor radio coverage. This failure will occasionally happen in a working unit, but if the problem is persistent then further investigation is required.</p> <p>2-6 GPRS is not attached, or CDMA 1xRTT data is not available.</p>

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3 - X	GPS/Satellite Related	<p>3-1 GPS module fault: RMA the unit to FieldLogix for failure analysis.</p> <p>3-2 GPS antenna fault: Try replacing the GPS antenna with a known good antenna. If the condition is not corrected (wait 2 minutes for the LED to update) then RMA to FieldLogix for failure analysis.</p> <p>3-3 GPS not tracking any satellites. Check that the GPS antenna has a clear, unobstructed view of the sky, and has been operating for at least 5 minutes. Check that the GPS antenna is facing the correct way up. If the condition persists RMA to FieldLogix for failure analysis.</p> <p>3-4 GPS no fix (<3 satellites). If antenna has only partial view of sky due to the position of the vehicle (under a cover, close proximity to a building) then try to move the vehicle to ensure that it will be able to make fixes when standing in the open. If the vehicle has a full view of the sky and the error condition persists then try to reposition the GPS antenna to get less obstructed view of the sky.</p> <p>3-5 GPS has no time. The GPS receiver sets its internal clock from the satellite signals. If the GPS receiver has no time then it has never seen a single satellite since the unit was last power cycled.</p>
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