



Commercial Vehicle Productivity and Security

The 6450 is a versatile and economical GPS tracking beacon designed for fleet management needs in local delivery and service fleets, transportation, utility vans and construction vehicles.

With highly sensitive GPS and GSM embedded antennas, an integrated OBDII port connector for power and an extremely compact design, the EBR 6450 can be installed in a matter of seconds which substantially reduces the high cost of installation.

Combined with our commercial mobile monitoring portal, subscribers can manage and view the location of any or all vehicles in a fleet, run a variety of valuable reports, and even manage vehicle maintenance alerts.

Security features include vehicle theft detection and tracking.

Features and Benefits

Feature	Benefit
Real-time location	View location of vehicle on a map in real-time for dispatch and vehicle recovery
Route logs	Archive records of vehicle movements
Ignition on/off	Know when vehicle engine is on or off for maintenance and productivity reports
Start and stop movement	Determine when actual arrival and departure times are
Circular zone notifications	Receive notifications upon entering or exiting circular zones – up to 5 zones monitored simultaneously
Speed notifications	Manage excessive speed by receiving notifications upon crossing a configurable speed threshold
Idle report and notification	Help eliminate fuel wastage by knowing when a vehicle engine was on but the vehicle was not utilized
Device Install notification	Informs the fleet manager when the device is installed, or moved to a different vehicle
High Acceleration notification (beta feature)	An alert is generated when the vehicle accelerates too quickly
High Deceleration notification (beta feature)	Harsh braking events will generate alerts
Motion Detection (beta feature)	Detects vehicle movement when the ignition is turned off
Low Battery notification (beta feature)	A warning is generated if the vehicle's battery voltage falls too low

Applications of GPS Fleet Management

- › improve productivity of mobile staff
- › improve customer service
- › prevent misuse of company resources during and after work hours
- › recover stolen or misplaced vehicles
- › provide monitored security for drivers
- › reduce fuel wastage and maintenance costs



Specifications

Location Technology

- › NMEA, Binary GPS Protocols
- › Buffered messages

Network Functionality

- › GSM/GPRS network
- › Frequency Band: 850/1900 MHz
- › OTA Firmware Upgrade

Power Requirement

- › D.C Power 9-16V

Physical Connection

- › OBD Connector J1962
- › GPS Antenna Integrated
- › Cellular Antenna Integrated dual-band (850-1900 MHz)

Mechanical

- › Rugged textured plastic enclosure
- › Dimensions 1.8" X 1.7" X 1.1" (46 X 43 X 28mm)
- › Weight <2 oz. (<55 grams)
- › Operating Temperature -22 to 185°F (-30 to +85°C)

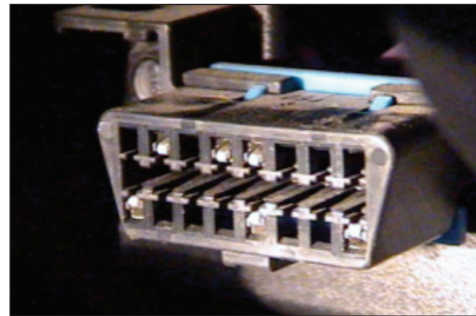
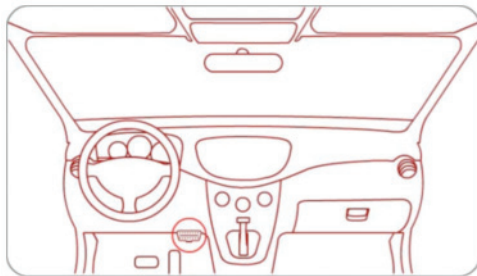
Status Indicators

- › Network registration/GSM
- › GPS position acquisition status
- › OBDII lock status



Installation Notes

Since 1996, North American vehicles have supported the On-Board Diagnostics-II protocol (OBD-II). The port that supports OBD-II connectors and devices (including the EBR model 6450 beacon) is typically found beneath the dash on the driver's side of the vehicle.



With the vehicle ignition turned off, install the beacon by pressing it firmly onto the vehicle port. The beacon draws its power from the vehicle battery, and immediately upon installation the LED lights on the side of the device will flash indicating that self-configuration has begun.



There are three LED indicators on the device:

The red OBD indicator will flash quickly when the device is first installed, and then slowly when the protocol is established. If the OBD indicator continues to flash quickly after 5 minutes, it is recommended to uninstall and reinstall the device on the OBD-II port.

The green GSM indicator flashes quickly when establishing a network connection, and then slowly once connectivity is established. While the device is transmitting, the LED is continuously lit.

The blue GPS indicator will flash quickly when the device is acquiring a satellite fix, and then slowly once the fix is acquired.

Accelerometer Calibration

The device has a highly sensitive accelerometer which is used by the Acceleration, Deceleration and Motion features. After the device is installed, the accelerometer will self-calibrate when the vehicle moves for the first time, and the speed reaches 20mph (32kph). Accurate calibration will occur if the vehicle is traveling in a straight line on level ground at this time.

Warnings and Known Issues

1. Do not use this device on '06 or '07 Ford F-150 trucks. Faulty wiring in these vehicles may cause a fire.
2. Installing or removing the device while the ignition is turned on could possibly damage the vehicle's electronics.
3. The 6450 is not a waterproof or sealed device. Care must be taken to ensure the device is kept away from water or any other liquids.
4. If the 6450 is to be used in a Hybrid vehicle, a firmware update may be required to correct issues with Ignition sensing.