Thank you for purchasing your new GPS vehicle tracking system!

Installation of your new GPS tracking device couldn't be easier.

Just follow these simple steps.

Step 1: Wiring and Installation

- **We recommend installation of your device by a professional installer.**
- **Please verify that your device is activated prior to installation. When activating a unit, refer to the device serial number on the underside of the tracking device. (Reference Image A.)**

Image A

- The AT-V4 requires a standard 3-wire installation to operate effectively. Please familiarize yourself with the following wire colors and functions. **NOTE:** Do not cut wiring harness to shorten length of cable as this will void warranty.

***Red** wire	Power	12 VDC constant
***Black** wire	Ground	Ground
***White** wire	Ignition Input	Key (on)
Blue wire	Output (default) / Input / Analog Input	(+) trigger input
Green wire	Input (default) / 1-Wire Protocol	(-) trigger input
Yellow wire	Output (default) / Input	(-) trigger input

* Must be connected for device to work properly.

  - The **red** wire (power) should be directly wired to a constant 8V - 40V power source found at the key source or fuse panel.
  - The **black** wire (ground) should be securely fastened to a grounded screw or to chassis ground.
  - The **white** wire (ignition) is the ignition event wire that is installed directly to the ignition wire. Ensure that power to the ignition wire is available ONLY when the vehicle ignition is turned on. All makes and models of vehicles are different - we recommend you make sure that you know your particular vehicle's Constant and Ignition wires and their specific color(s) prior to installation.
  - The **blue** wire is an output by default and produces a momentary signal for use with vehicle functions such as horn honking. The **green** wire is an input by default. The **yellow** wire is an output by default and produces a constant signal for use with vehicle functions such as starter enable/disable. These wires can be used to monitor many functions such as PTO (Power Take Off) activity, emergency lights, panic switch, etc. or a specified input for the customer. A standard Automotive Relay to lock/unlock doors, honk horn, etc. might be needed. Contact support if you need the device configured differently from its default state.

Step 2: Status LED Lights

- After installing the unit, and prior to securing under the dash area, make sure the unit has a solid **green**, **red**, and **blue** LED lights on the top side of the device above the US Fleet Tracking logo. See table on page 2 of this Installation Guide for troubleshooting if the lights perform differently. (Reference Image B and Table on Page 2.)

Image B

LED 1 (green) GPS	Status	LED 2 (red) Power	Status	LED 3 (blue) GSM/Cell	Status
Off	GPS Off	Off	No Power	Off	GSM Off
Solid	GPS Fix	Solid	Device On	Solid	Connected (will blink when sending data)
Blink (.5sec On/.5sec Off)	GPS Search	Blink (1 blink every 8sec)	Sleep Mode	Blink	SIM PIN Error
		Blink (1sec On/1sec Off)	GPS Module Off, External Power Lost, Using Backup Battery	Blink (.5sec On/.5sec Off)	GSM Search
				Blink (.2sec On.2sec Off)	GSM Registered

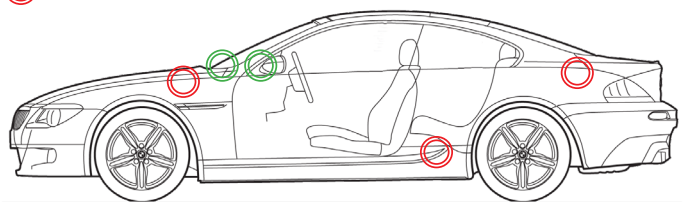
Step 3: GPS/GSM Antenna

- The AT-V4 uses an internal antenna for both GPS and GSM (cellular) signals. The GPS and GSM antennas are located on the top side of the device when the US Fleet Tracking logo is facing upward. (Reference image C.)
- Our device transmits once every 30 minutes if sitting still, or once every 5 or 10 seconds (depending on your rate plan) when the vehicle is moving faster than 4 mph. Driving the vehicle around the block will assist in its first data transmission.
- The best location is under the dash, above the instrument cluster with a full view of the sky through the front windshield. (Reference image D.)
  Make sure the device is kept free from direct exposure to the elements (sun, heat, rain, moisture).
- When installed inside a building, your unit may not receive a GPS signal or cellular signal.
- GPS signals WILL penetrate glass, plastic, foam, fiberglass, and wood.
  GPS signals will NOT penetrate metal.
- A good placement of the device will yield a minimum of 7 satellites. The device will not transmit data location with less than 4 satellites in view.

Image C

Ideal Placement of AT-V4 device

Ideal location
Poor location



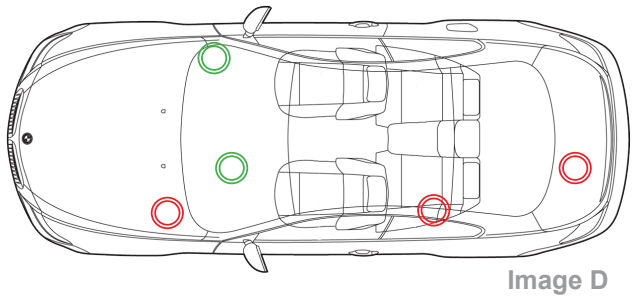


Image D

If you have any questions or encounter any difficulties with this system, please contact our support
Monday through Friday 7 a.m. to 7 p.m. CT and Saturday 9 a.m. to 4 p.m. CT