

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 MID# on the underside of the tracking device. (Reference 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 the wiring harness to shorten the length of the cable as this will void the product warranty.



Image A

|                     |                |                                |
|---------------------|----------------|--------------------------------|
| * <b>Red</b> wire   | Power          | 12 VDC constant                |
| * <b>Black</b> wire | Ground         | Ground                         |
| * <b>White</b> wire | Ignition input | Key (on)                       |
| <b>Orange</b> wire  | 1-wire         | 1 wire data for thermal sensor |
| <b>Brown</b> wire   | Output 2       | Honk horn/lock doors           |
| <b>Yellow</b> wire  | Input 2        | ADC                            |

\* Must be connected for device to work properly.

- The **red** wire (power) should be directly wired to a constant 6V - 32V 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 **orange** wire is a 1-wire data line for the AT-V4+ Thermal Sensor. This wire has a 1-watt power limit and is designed for compatible accessories only. **DO NOT** connect the Thermal Sensor to the **red** 12v power, it will irreparably damage the sensor.
- The **yellow** wire is an input wire. These can be used to monitor PTO (Power Take Off) activity such as emergency lights, doors opening, flat-bed operation, buckets, etc.
- The **brown** wire is an output wire. These can be used for enabling and disabling the starter, locking and unlocking the doors, honking the horn, etc.

## Step 2: Status LED Lights

- After installing the unit, and prior to securing it under the dash area, make sure the unit has slowly blinking **red** and **blue** lights. See the table for troubleshooting when one or both does not occur. (Reference Image B and Table on Page 2.)



Image B

| LED 1 (blue)<br>GSM/Cell | Status               | LED 2 (red)<br>GPS | Status                   |
|--------------------------|----------------------|--------------------|--------------------------|
| 1                        | Normal Operation     | Off                | No Power                 |
| 2                        | Server Comm Error    | 1-blink            | Normal Operation         |
| 3                        | GPRS/HSPA Com. Error | 2-blinks           | No Fix                   |
| 4                        | No Network           | 3-blinks           | Weak Connection          |
| 5                        | SIM PIN Locked       | 4-blinks           | Chipset or Antenna Error |
| 6                        | Cannot Attach NW     |                    |                          |
| 7                        | No SIM               |                    |                          |
| 8                        | SIM PUK Locked       |                    |                          |

## 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 opposite the cables when viewing unit from the top or bottom. (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

- Poor location
- Ideal location

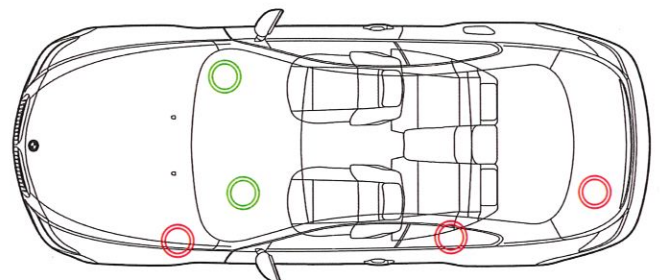
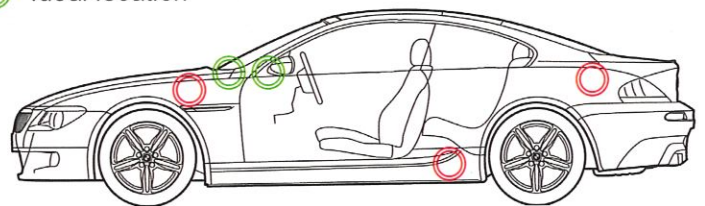


Image D

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