

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 NT-V3ia requires a standard 3-wire installation to operate effectively. Please familiarize yourself with the following wire colors and functions.



Image A

* Red wire	Power	12 VDC constant	Yellow wire	Unlock Door	Output (150 mA)
* Black wire	Ground	Ground	Blue wire	PTO 2 (panic)	Input - Bias low
* White wire	Ignition input	Key (on)	Orange wire	PTO 3	Input - Bias high
Green wire	Starter kill	Output (150 mA)	Purple wire	PTO 4	Input - Bias high
Brown wire	Honk Horn	Output (150mA)	Grey wire	PTO 5	Input - Bias high

* Must be connected for device to work properly.

- The **red** wire (power) should be directly wired to a constant 7V - 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 best 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 **green**, **brown** and **yellow** wires (outputs) can be used to honk the vehicle's horn, unlock its doors, remote start the engine, and disable/enable the starter.
- The **blue**, **orange**, **purple**, and **grey** wires (input) can be used to monitor many functions such as PTO activity (Power Take Off), emergency lights, panic switch, etc or a specified input for the customer.

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** light and a blinking **orange** light that goes solid for 1 second, then repeats the pattern. See table on page 2 of this Installation Guide for troubleshooting when one or both does not occur. (Reference Image B and Table on Page 2.)



Image B

LED 1 (orange) GSM/Cell	Status	LED 2 (green) GPS	Status
Off	Modem off	Off	GPS Off
Slow Blink	Cell Search	Slow Blink	GPS On
Fast Blink	Network Available	Fast Blink	GPS Time Sync
Solid to Fast Blink	Registered but no acknowledgement	Solid	GPS Fix
Blink, Blink, Blink, Solid Repeating Pattern	Registered and received acknowledgement		

Step 3 > Device Placement

- Plug the wiring harness into the device and place the unit under the dash above the instrument cluster (reference Image C).
- 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.
- Place the NT-V3ia under the dash. For best results, use a zip-tie to secure the device to ensure it doesn't fall from beneath the dash.
- 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 has a full view of the sky through the front windshield (reference Image C.)
- 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.

○ Poor location
○ Ideal location

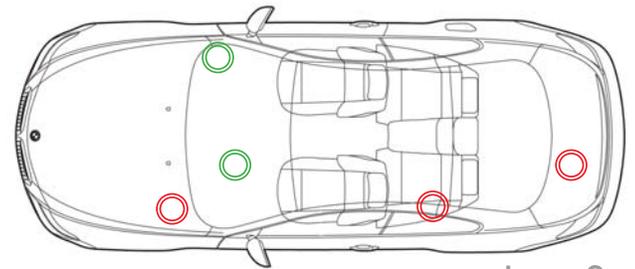
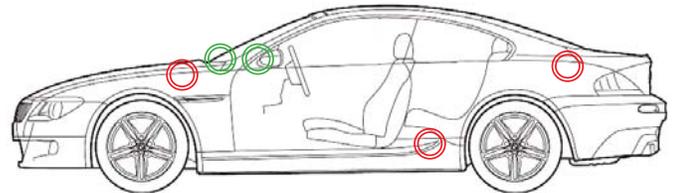


Image C

Additional > Messaging

- The NT-V3ia device has the capability to integrate with certain supported Garmin products. These products, paired with the NT-V3ia, allow unlimited messaging and also have the ability to send destinations from US Fleet Tracking's web-based system to devices in the field. The combination of the NT-V3ia and Garmin products create unparalleled dispatch and communication functionality.

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