

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

- 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-X5 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.



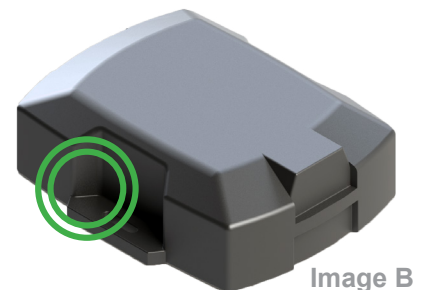
* <b>Red</b> wire	Power	12 VDC constant
* <b>Black</b> wire	Ground	Ground
* <b>White</b> wire	Ignition input	Key (on)
<b>Blue</b> wire	Input 1	(-) to engage
<b>Green</b> wire	Output 1	Up to 150 mA

\* Must be connected for device to work properly.

- The **red** wire (power) should be directly wired to a constant 9V - 30V 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 **blue** wire (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.
- The **green** wire is an output. A standard Automotive Relay to lock/unlock doors, honk horn, etc might be needed.

## 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.)



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 > GPS/GSM Antenna

- The AT-X5 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.

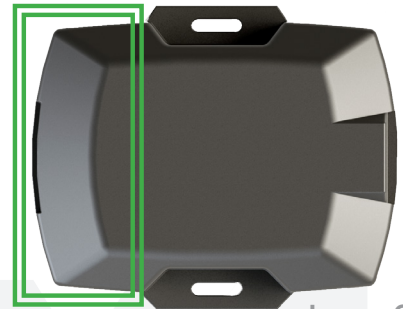


Image C

### Ideal Placement of AT-X5 device

- Poor location
- Ideal location

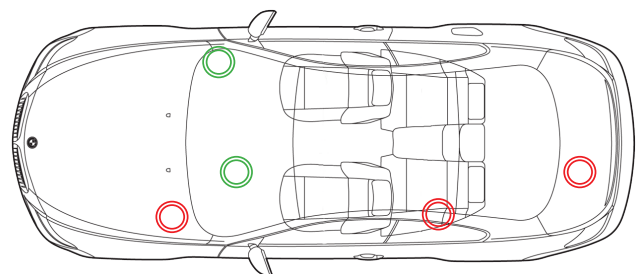
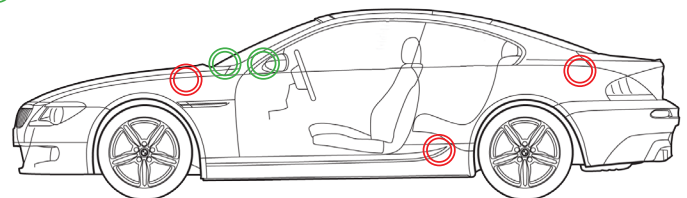


Image D

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. CST and Saturday 9 a.m. to 4 p.m. CST