

## Before You Begin

The installation kit contains a registration card, the AT-3000 device, eight 8" cable ties, one Star Washer, one Self-tapping Screw, five Yellow/Blue Heat Shrink Butt Connectors, one heat shrink ring terminal, one grommet, and two bolts with Well Nuts.

Additional tools and supplies you will need include are; ink pen, fine-tip marker, digital multimeter, a crimping tool, a razor knife, wire strippers, electrical tape, cordless drill, 1/4" (7mm), and 3/8" (9 mm) drill bits, Phillips bit and 7/64 in. (3 mm) hex key.

For install verification and device registration, visit <https://verifygps.gpsinsight.com> and bookmark the page.

## Installation Overview

The following steps provide an overview of the installation process:

1. Installation Preparation
2. Device Mounting
3. Harness Installation
  - Conventional Hardwire
  - Small Battery
  - Motion
4. Verification and Registration
5. Installation Steps

## Installation Steps

### 1. Installation Preparation.

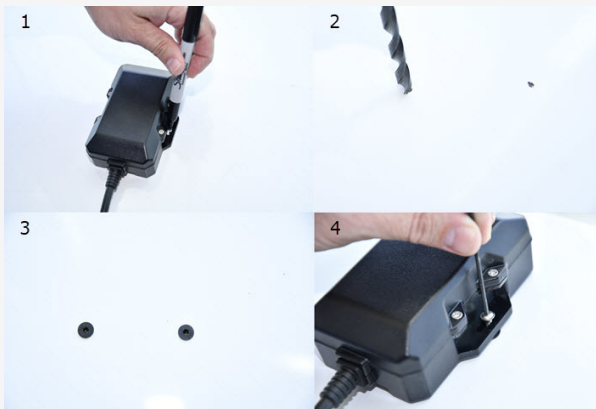
1. Record the 10-digit device number (ESN) onto your registration card.



2. Identify a mounting location, ideally level and on top of the asset.
3. Inspect underneath the potential mounting location to confirm nothing will be damaged during mounting.

## 2. Device Mounting.

1. Place the device on the asset, mark mounting holes, drill using 1/4" (7mm) bit, insert Well Nuts and screw the device to the asset.



2. If power cable needs to breach asset housing, utilize the provided grommet and butt connectors.

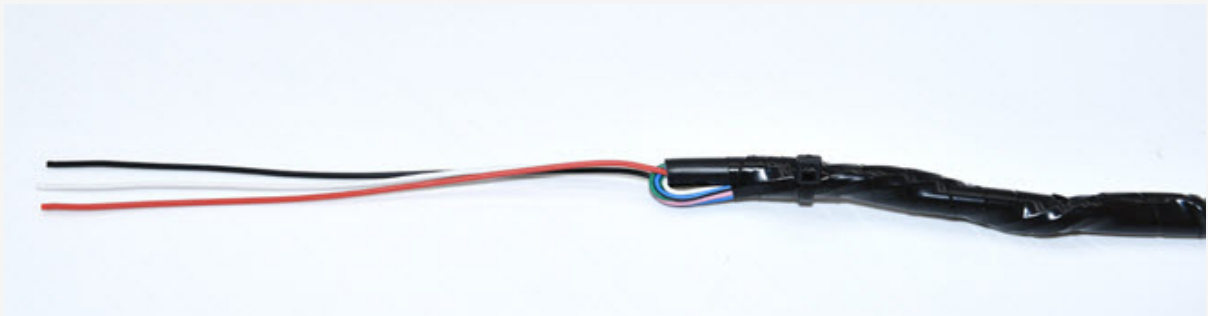




**Note.** A cable breach point should be located where it's least susceptible to weather; the top of the asset is not recommended.

## -Accessory installation-

- If applicable, refer to the appropriate AT-3000 accessory installation guide to install any purchased device accessories. If not applicable or when complete, tape off and cable tie all loose wires.



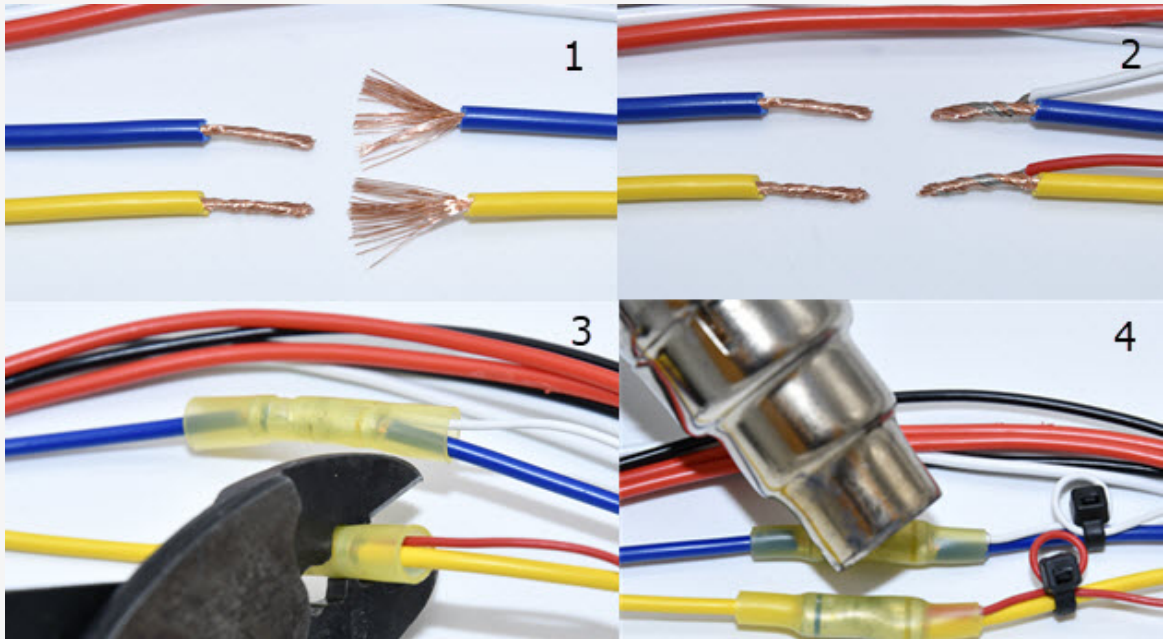
## 3. Harness Installation.

- Conventional Hardwire
- Small Battery
- Motion

Identify an asset wire which supplies between 12 VDC (+) and 24 VDC (+) when the key is in the Ignition On position and 0 VDC (+) when the key is in the Off and Accessory positions; this will be the device's White wire Switch power source. Identify an asset wire that supplies between 12 VDC (+) and 24 VDC (+) with the vehicle On, Off, and keys removed; this will be the device's Red wire Constant power source.

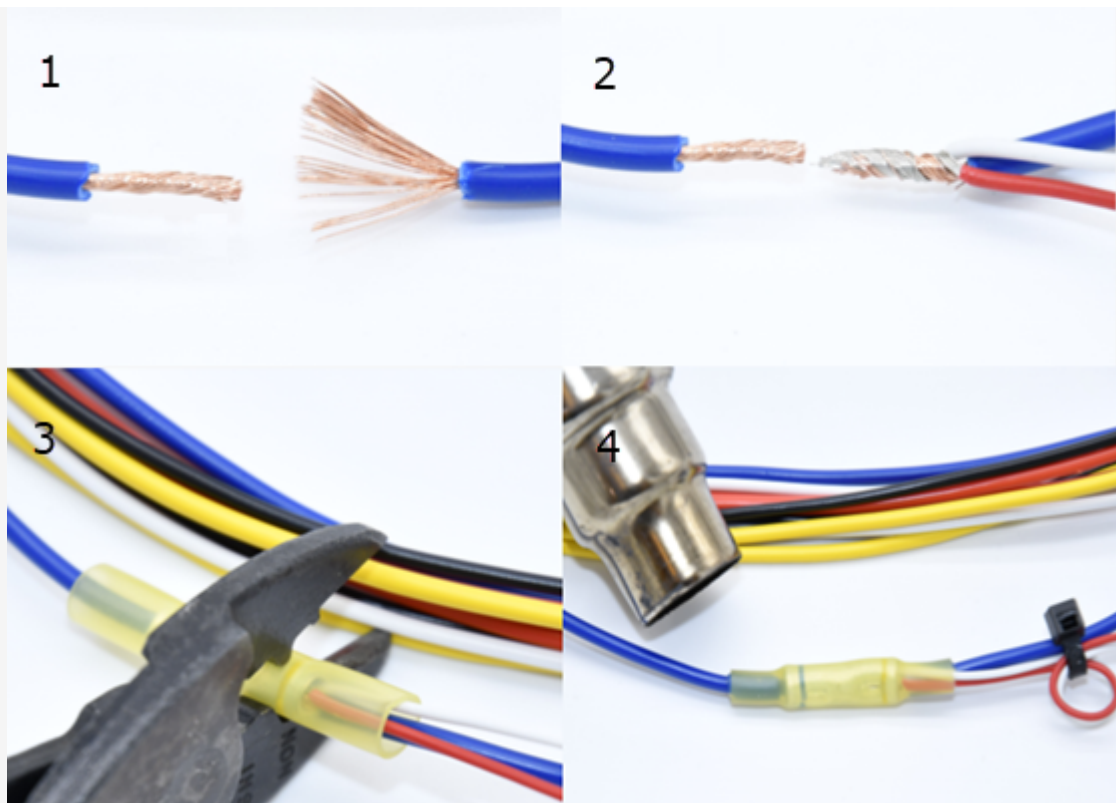
1. Cut the asset wire identified, remove ½" of insulation from each end, and fray wire strands on one side.
2. Remove ½" of insulation from the device White wire, fray, and then twist together with frayed vehicle circuit wire.
3. Insert the single-vehicle wire into the Blue side of the connector and then the two wires into the Yellow side and crimp each.

4. Heat the connector to release adhesive creating a weatherproof seal before completed with a cable tie stress loop.



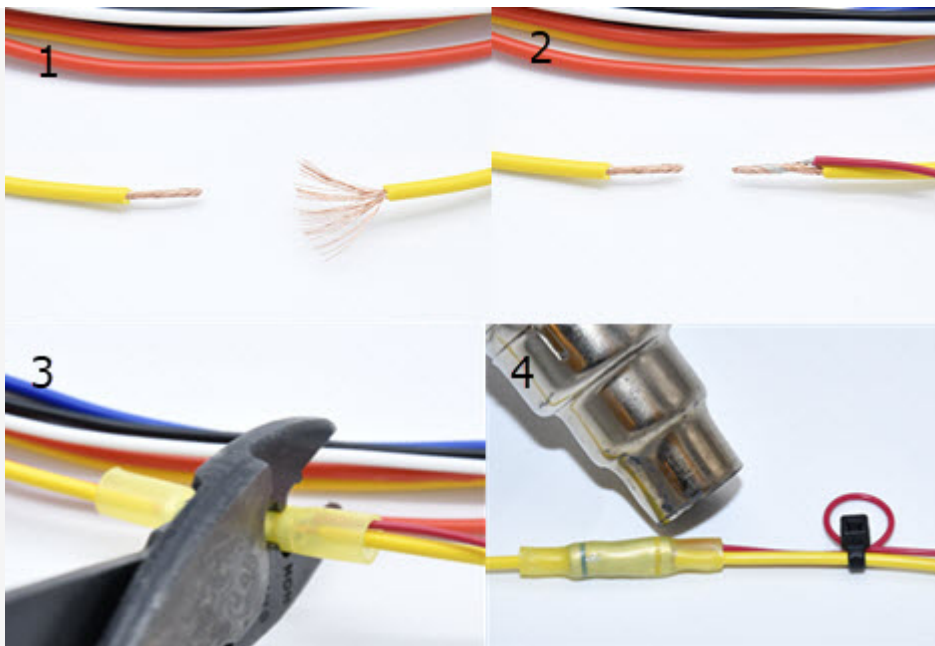
Identify an asset wire which supplies between 12-24 VDC (+) when the key is in the Ignition On position, but 0 VDC (+) when the key is in the Off or Accessory positions; this wire will be the power source for both device Red and White wires.

1. Cut the asset wire identified, remove  $\frac{1}{2}$ " of insulation from each end, and fray wire strands on one side.
2. Remove  $\frac{1}{2}$ " of insulation from the device Red and White wires, fray, and then twist together with frayed vehicle circuit wire.
3. Insert the single-vehicle wire into the Blue side of the connector and then three wires into the Yellow side and crimp each.
4. Heat the connector to release adhesive creating a weatherproof seal before completed with a cable tie stress loop.



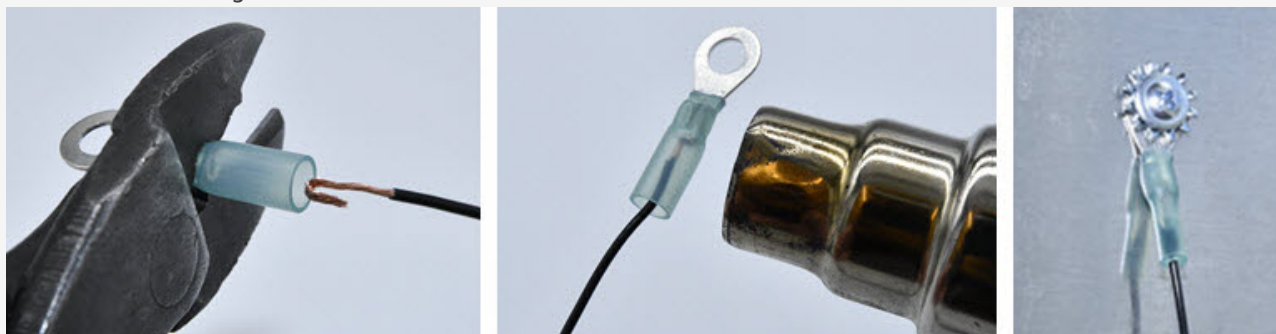
Identify an asset wire that supplies between 12 VDC (+) and 24 VDC (+) with the vehicle On, Off, and keys removed; this will be the device's Red wire Constant power source.

1. Cut the asset wire identified, remove ½" of insulation from each end, and fray wire strands on one side.
2. Remove ½" of insulation from the device Red wire, fray, and then twist together with frayed vehicle circuit wire.
3. Insert the single-vehicle wire into the Blue side of the connector and then the two wires into the Yellow side and crimp each.
4. Heat the connector to release adhesive creating a weatherproof seal before completed with a cable tie stress loop.



## 4. Ground Connection.

Remove 1/2" (1 cm) of insulation from the Black wire, crimp the ring terminal to the wire, heat connector and then screw ring terminal to the chassis.



## 5. Verification and Registration.

1. Start the engine and run for 5 minutes; to pass verification for the 'Small Battery' installation type, the internal battery must have a charge.



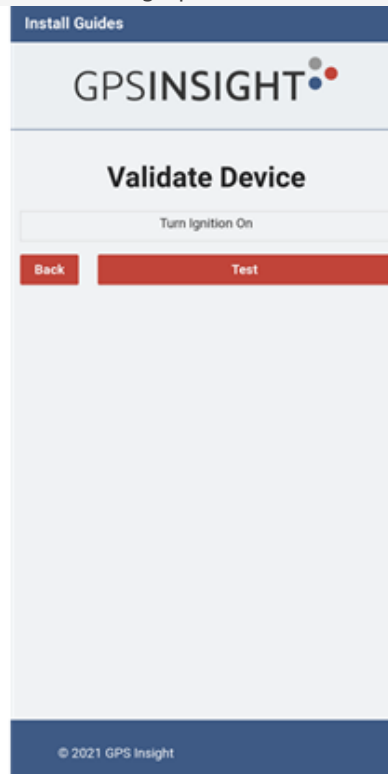
2. Confirm cellular and GPS connection: upon the device receiving power, device lights will begin to blink slowly and then faster as it searches for a signal. A solid amber light indicates a cellular network connection and a solid green light indicates a GPS connection.



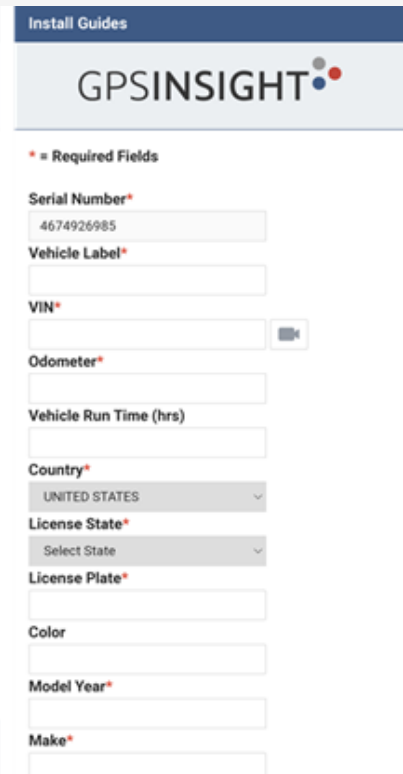
3. Open the web app: <https://verifygps.gpsinsight.com/> on your computer or smartphone.
  - Enter your Install Key.
  - Select 'Device Type' according to the wiring option installed and follow the instructions.



The screenshot shows the 'Install Key' screen of the GPSINSIGHT web app. It includes fields for 'Install Key\*' (12345), 'Serial Number\*' (1243102996), and 'Device Type\*' (AT-3000: Small Battery). A red message states: 'The device needs to be connected to power, with two solid lights, for a minimum of 2 minutes before proceeding.' Below this are checkboxes for 'Driver ID' and 'Input(s)'. A red 'Next' button is at the bottom.



The screenshot shows the 'Validate Device' screen of the GPSINSIGHT web app. It features a 'Turn Ignition On' button and a red 'Test' button. A red 'Back' button is also visible.



The screenshot shows the registration form of the GPSINSIGHT web app. It includes fields for 'Serial Number\*', 'Vehicle Label\*', 'VIN\*', 'Odometer\*', 'Vehicle Run Time (hrs)', 'Country\*', 'License State\*', 'License Plate\*', 'Color', 'Model Year\*', and 'Make\*'. A red asterisk indicates required fields.

4. After verification and registration, using provided cable ties, place a cable tie over each fuse holder, secure any loose sections of cable, reassemble removed panels and give the Registration Card to your GPS administrator.

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Link: <https://help.nuvo.solutions/installation-guide/at-3000-series/> Last Updated: August 16th, 2021

