

GPS WIRING - AC13003G Modem

a. Main power wire: (Red +)

- Locate a 12 volt power wire that will not cut out or drop voltage during driving
Note: Such power sources are often found at the ignition switch or fuse box.

b. Ignition wire: (White +)

- Locate the ignition power wire
Note: DO NOT use an accessory wire. An ignition wire will have voltage during crank.

c. Ground wire: (Black)

- Ground to chassis
Note: Issues can arise if grounded to internal dash structure.

d. Starter kill output: (Green -)

- When triggered via AutoConnect, this output latches to ground. It is connected to a 5 pin relay which will interrupt the vehicle starter wire.

MOUNTING THE DEVICE IN THE VEHICLE

- Tracking module should be installed in a covert (hidden) position so it cannot be easily found.
- Position with the correct side facing up and as horizontal as possible.
- Fasten to a sturdy structure where the device will not be subject to moisture damage.
- DO NOT mount near a Radio, Radio antenna, anything hot, sharp or anything that has moving parts.
- Do not mount under any metal or within reach of the driver, must be underneath the top skin of the dash.

TOP ISSUES

Below are the top issues that we see when clients call to test vehicles with the starter kill feature installed;

- Not using Ignition connection for starter kill relay. They use accessory instead where the voltage drops during crank.
- Vehicle still starts when Starter Kill is engaged when using either the factory or aftermarket remote car starter
- Red constant wire connected to less than 12 volt connection
- Device installed in a poor location (by drivers feet etc) resulting in weak cellular and/or GPS signal



INSTALLATION BEST PRACTICES

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AUTOCONNECT TESTING PROCEDURES

Certified Tracking highly recommends that all devices be tested during installation, before closing the dash. There are two options available;

A: Call Autoconnect to test: Toll Free 855-287-4477

- or -

B: Self Test

Steps to Self Test via AutoConnect Dashboard

- 1) Bullseye vehicle
 - Is location ok? (Is it showing at location of installation?)
 - Is voltage ok? (Should read close to or greater than 12.0 volts)
- 2) Activate starter kill
- 3) Try to start vehicle via key (Vehicle should NOT start)
- 4) Is there a factory or aftermarket remote starter? If yes, try to start using remote starter. (Vehicle should NOT start)
- 5) Deactivate Starter Kill
- 6) Start vehicle via key (Vehicle should start)
- 7) Shut off vehicle (Verify that you see Ignition OFF)
- 8) Ending voltage should read close to or greater than 12.0 volts

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FINANCE DEPARTMENT (Post Installation Check)

To see if a device was tested run the "Detailed: Asset by location" report in the AutoConnect dashboard. Please see the example below. Confirm that all steps were followed.

Date/Time	GPS Status	Speed	Heading	Location	Temp.	Voltage	Event
11/10/2016 03:30:35 PM	Invalid, Realtime	0 km/h	0 deg.	n/a			
11/10/2016 03:38:02 PM	Invalid, Realtime	0 km/h	0 deg.	n/a			
11/10/2016 03:41:12 PM	Invalid, Realtime	0 km/h	0 deg.	n/a			
11/10/2016 03:41:24 PM	Invalid, Realtime	0 km/h	0 deg.	n/a	STEP 1	11.6 V	Bulls Eye Position Request Confirmed
11/10/2016 03:41:27 PM	Invalid, Realtime	0 km/h	0 deg.	n/a		N/A	
11/10/2016 03:41:37 PM	Invalid, Realtime	0 km/h	0 deg.	n/a	STEP 2	11.6 V	Starter Disable Command Confirmed
11/10/2016 03:41:49 PM	Invalid, Realtime	0 km/h	0 deg.	n/a	STEP 3	11.2 V	Ignition Off (Wired) Excessive Invalid GPS: 31
11/10/2016 03:42:00 PM	Invalid, Realtime	0 km/h	0 deg.	n/a		N/A	
11/10/2016 03:42:12 PM	Invalid, Realtime	0 km/h	0 deg.	n/a	STEP 5	11.2 V	Starter Disable Command Confirmed
11/10/2016 03:42:25 PM	Invalid, Realtime	0 km/h	0 deg.	n/a			
11/10/2016 03:42:37 PM	Invalid, Realtime	0 km/h	0 deg.	n/a	STEP 6	13.7 V	Bulls Eye Position Request Confirmed
11/10/2016 03:42:55 PM	Invalid, Realtime	0 km/h	0 deg.	n/a	STEP 7	12.7 V	Ignition Off (Wired)
11/10/2016 03:43:04 PM	Invalid, Realtime	0 km/h	0 deg.	n/a		N/A	
11/10/2016 03:43:15 PM	Invalid, Realtime	0 km/h	0 deg.	n/a		11.9 V	Bulls Eye Position Request Confirmed
11/10/2016 03:53:05 PM	Invalid, Realtime	0 km/h	0 deg.	n/a		11.6 V	Low Battery
11/10/2016 04:01:23 PM	Invalid, Realtime	0 km/h	0 deg.	n/a		12.6 V	Ignition Off (Wired)
11/10/2016 04:02:40 PM	Valid, Realtime					12.0 V	GPS Power Up Lock Alert Msg Landmark Exit: Certified Radio: South Excessive Invalid GPS: resumed,1467721813
11/10/2016 04:11:48 PM	Valid, Realtime	0 km/h	0 deg.	53.28808, -113.54514		11.8 V	Low Battery
11/10/2016 04:17:50 PM	Valid, Realtime	0 km/h	0 deg.	53.28680, -113.54597		12.7 V	Ignition Off (Wired)
11/10/2016 04:26:18 PM	Valid, Realtime	0 km/h	0 deg.	53.28673, -113.54586		12.5 V	Ignition Off (Wired)
11/10/2016 04:36:25 PM	Valid, Realtime	0 km/h	0 deg.	53.28655, -113.54568		11.5 V	Low Battery
11/10/2016 04:39:50 PM	Valid, Realtime	0 km/h	0 deg.	53.28759, -113.54412		12.4 V	Ignition Off (Wired)
11/10/2016 04:49:55 PM	Valid, Realtime	0 km/h	0 deg.	53.28760, -113.54411		11.9 V	Low Battery
11/10/2016 05:40:35 PM	Invalid, Delayed	0 km/h	0 deg.	53.28762, -113.54410	STEP 8	11.8 V	Bulls Eye Position Request Confirmed
11/10/2016 06:20:20 PM	Invalid, Realtime	0 km/h	0 deg.	n/a		N/A	

When vehicle voltage drops below 12.2 V the device will turn off the GPS chip to save power. In this example the vehicle had a very low voltage. We would ask the installer to confirm the actual battery voltage.

Note: Viewing the report and verifying that the steps were executed does NOT guarantee that the starter kill worked.