1. Install the module up high **underneath** the dash board.

2. Make sure that the module is **laying flat with label facing down**.

3. It is important to install the module is such a way that **no metal is directly above it or near it.**

4. Make sure that the module is secured and that it will not move, otherwise it may lose GPS connectivity.

5. With a voltmeter, find the starter signal. When you turn the key to the "start" position, volt meter should read 12 Volt. (STARTER SIGNAL MUST BE 12 VOLTS) **Starter Interrupt Device will not detect a low voltage signal.**

6. Disconnect the car battery before proceeding further.

7. Cut the car starter wire and connect starter interrupt cables to each end of the starter wire. Car starter wire must be cut between the ignition and the starter. **(Please view diagram below)**

8. Ground the black wire from the power cable.

9. Connect the red power cable to a **PERMANENT** 12Volts power source.

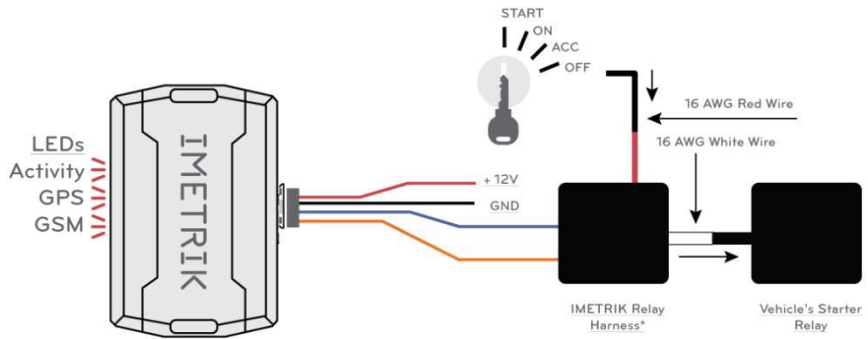10. Make sure all connections are soldered and well insulated.

> ** You may go to:*
> *www.bulldogsecurity.com*
>
> *For vehicles wiring diagrams*

Make sure that the LEDs (lights) are matching those in the diagram below before testing and finalizing installation.

Activity	**« Flash »**	12 Volts Indicator light
GPS	**« Solid »**	**GPS** will flash for about 90 seconds. Will come on solid once GPS fix is acquired. **(Vehicle must be outside)**
GSM	**« Solid »**	**GSM** Will come on solid once wireless network is acquired, (About 90 seconds).

Make sure LEDs are as followed:

Activity : **Flash**
GPS : **Solid**
GSM : **Solid**

LED	COLOR	OFF	BLINK FAST	BLINK SLOW	ON
Activity	Red	No Power/Error		Normal	
GPS	Red	No Power/Error	Acquiring		**Good GPS Fix**
GSM (Cellular)	Red	No Power/Error (1)	Network Error	Acquiring (2)	**Connected**

(1) Radio LED may be OFF for a duration of approximately 10 seconds after power-on. This is normal.

(2) Will take approximately 75 seconds to acquire a signal once device is powered up. Users should wait at least 2 minutes before addressing the device for the first time.

Should all LED go out after a few minutes, the device went into power saver mode. Shaking the device will wake the device out of power saver mode.

(This device requires a permanent and uninterrupted 12 Volts connection.

Make sure that the device will not lose 12 Volt connectivity. To perform a locate command of the unit 30 minutes after the installation is completed, car has been turned off and car doors have been closed will assure that the device still is receiving power)

Troubleshooting:

COMMAND RESULT	CAUSE	SOLUTION
SUCCESSFULL	• This response is caused when any function you are trying to perform (Locate, Enable, Warning, Disable) succeeds and the action is executed.	This is the response you should get for any action you perform and is the response you will get most of the time.
NO GPS FIX	• Improper installation	Remove the GPS antenna from the device (make sure power supply is disconnected first) and install correctly. See installation information.
	• GPS antenna has become disconnected from the device	Disconnect power supply first, then re connect antenna.
	• The vehicle being located is underground, in a garage or generally blocked from receiving a signal from a GPS satellite.	Wait until the vehicle is back to a spot where it is able to receive a signal. If a customer is trying to locate a car every morning at 6:00am and consistently gets No GPS Fix ask them to try at a different time of day. Perhaps the owner of the vehicle is parked in an underground parking lot at that time and only leaves it later at night to go home. If the problem persists you may also want to attempt a Device Reset.
DEVICE UNREACHABLE	• The device cannot contact the RF Antenna. The RF antenna works like a cell phone, places that have no cellular coverage would affect the device in the same way. Again being underground, in a tunnel or similar locations can give you this message	Wait until the vehicle is back into an area where it has cellular reception.
	• Low or dead car battery.	Battery must be "jumped" or charged Replace the car battery
	• Device was disconnected	Contact customer and bring the vehicle back to re-install unit.
DEVICE UNREACHABLE CONFIRMED	• The system will in most cases continue to search for the device for a certain number of hours after the initial attempt has given you the Device Unreachable message. If the device is found within this period of time the information will be sent to the Console section in the Atlas and you will be able to pull the map and have the time and date of when the vehicle was located. If it does not find it, however, the word (Confirmed) will show up beside the original response of Device Unreachable.	Wait until the vehicle is back into an area where it has cellular reception. Re attempt locate. You may want to set a schedule so the device is automatically pinged at various times.
LAST KNOWN POSITION	• The device records the information of its location every so often and stores it in its buffer. When attempting to locate the vehicle; if it has just entered a place where it cannot get a GPS Fix it will send back the last know position of the device	If the vehicle has simply gone into a tunnel you can most probably check again in a couple of minutes and receive a good location. If it has just gone into an underground parking garage, for example, you may have to wait longer.
DEVICE TIME OUT	• The system will give 180 seconds to find the device. If no response is received after 180 seconds you will receive the message Device Timeout. The carrier (of the message) confirmed that the device received the request but the device was not able to send confirmation back showing that the task was complete.	If the vehicle you are searching for is in a place where you know it should be able to send and receive a signal (i.e.: right in front of the car lot where you have located other vehicles of yours) check the installation and make sure it is installed correctly.