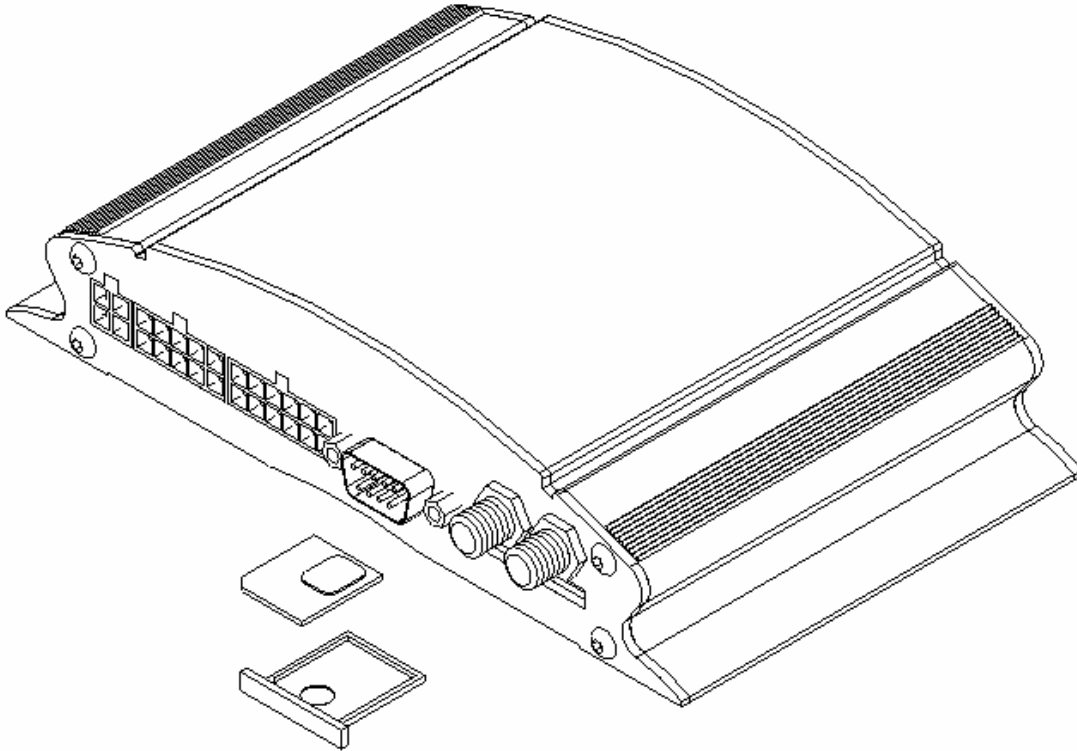


# IntelliTrac® X Series

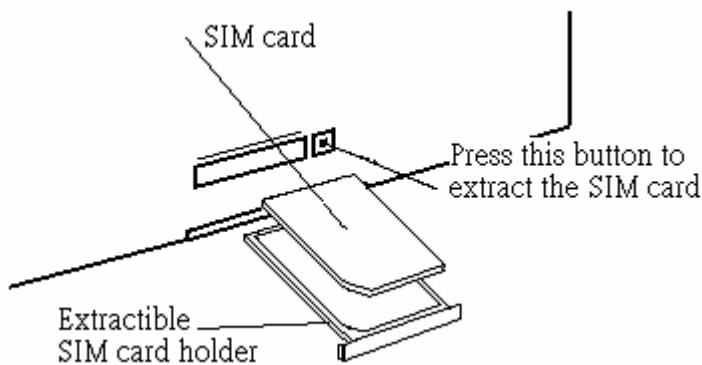
## Hardware Installation Guide

### 1. Install SIM Card

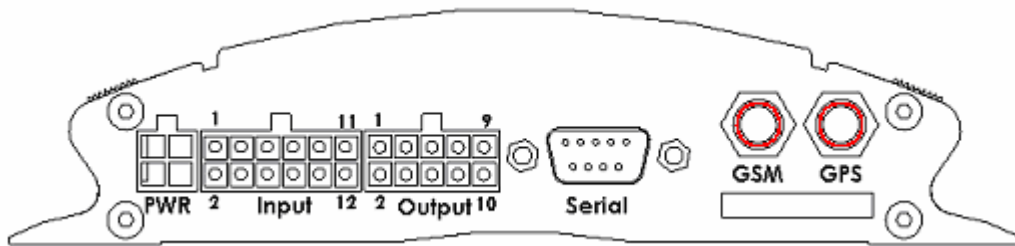


To install the SIM card:

- Press the yellow button to eject the SIM card holder.
- Insert the SIM card.
- Check that it fit into place correctly.



## 2. Install GPS and GSM Antennas

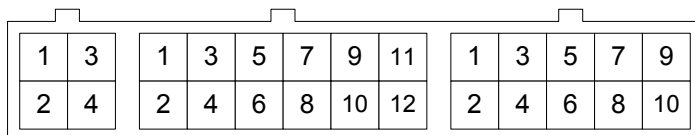
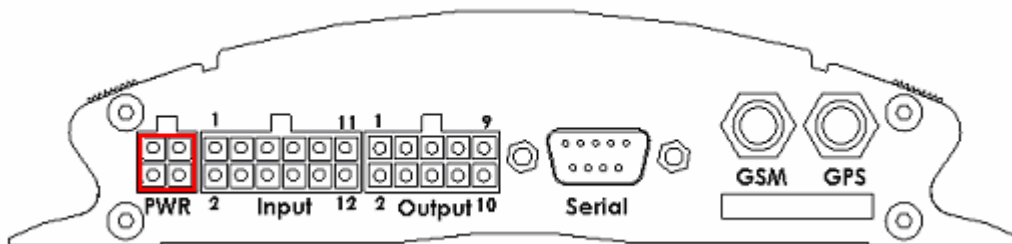


Connect GPS antenna to the GPS connector. The optimum location for the GPS antenna is on the roof of the vehicle. The covert and GPS antenna are directional, make sure they are facing up and laying as flat as possible. Secure them in place with glue, or zip ties.

**Note : Do not block or cover the GPS antenna with metal.**

Connect GSM antenna to the GSM connector. The GSM antenna is non-directional, so you can hide it in any place of vehicle.

## 3. Install Power Cable



Power

Input

Output

Power Connector

- 1 : Ground
- 2 : Ignition Key
- 3 : BAT. +8V ~ +32V
- 4 : Mute Control

### (1) General Installation (Without immobilizer installed)

Connect Ground(-Black) and BAT(+Red) wires to the battery of vehicle.

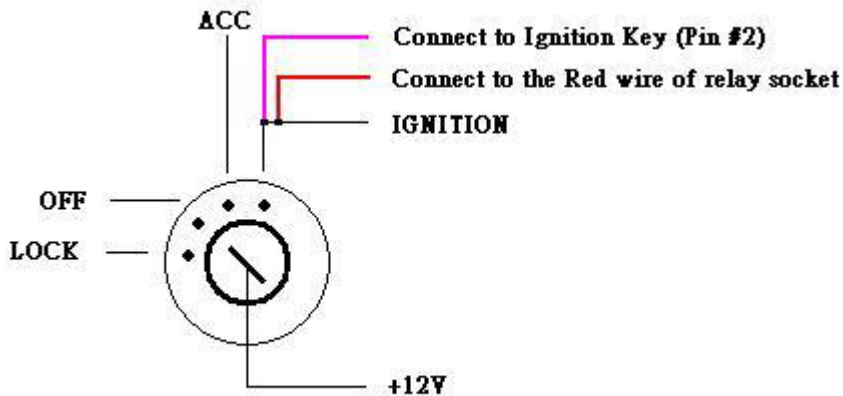
Ignition Key (Pink) is no use for general installation.

### (2) With immobilizer installed

**Caution: Immobilizer only works for 12V**

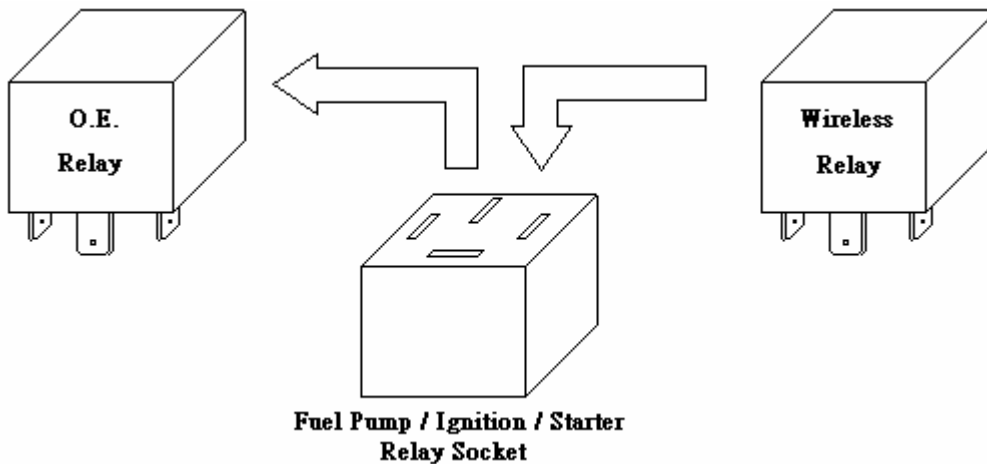
Connect Ground (-Black) and BAT (+Red) to the battery of vehicle.

Connect Ignition Key (Pink) to the IGNITION wire.



## 4. Install Immobilizer Relay (Optional)

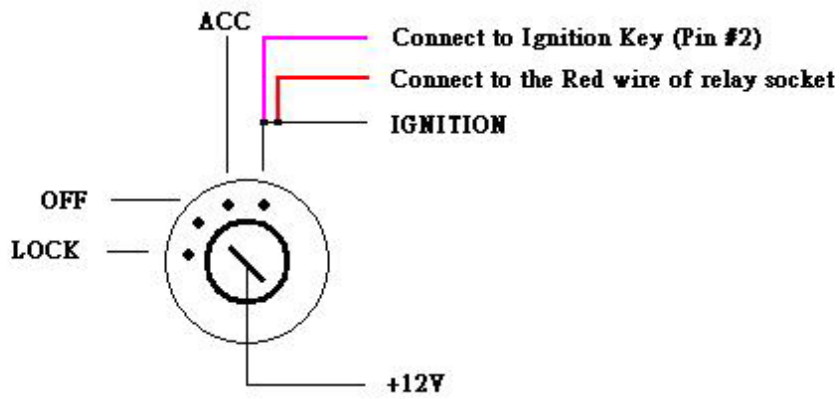
- (1) If the wireless relay terminal is **same** as car original fuel pump (or ignition, or starter) relay terminal, please just unplug the car original relay, then plug in the wireless relay.



If the wireless relay terminal is **different** with car original fuel pump (or ignition, or starter) relay terminal :

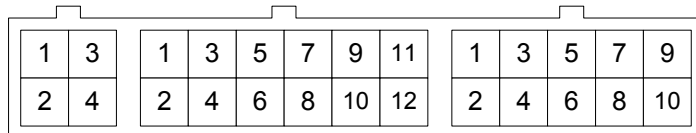
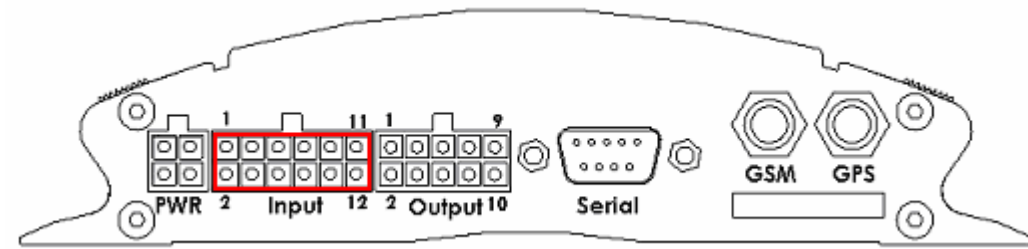
Please plug the wireless relay into the spare relay socket, then

- a. Connect the socket Black wire to Ground.
- b. Connect the socket Red wire to IGNITION
- c. Blue & Green wires are for engine disable cutting (ignition or fuel pump or starter...)



- (2) For security reason, it is better do NOT install the wireless relay at IGNITION key lock area. May install the wireless relay in the hood or near the fuel pump or any confidential place for engine disable cutting.

## 5. Install Input Cable



Power

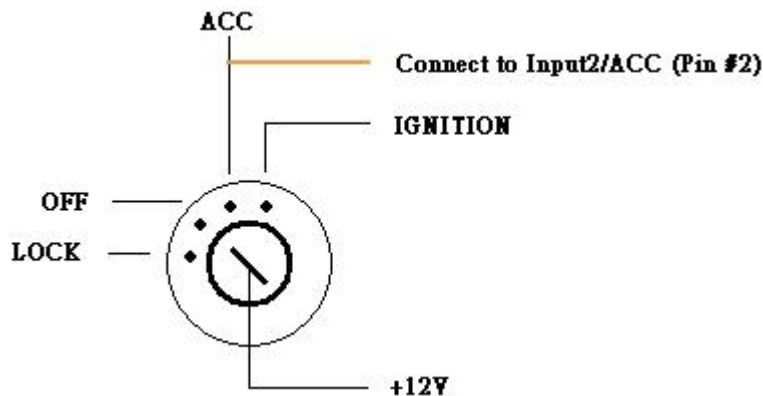
Input

Output

Input Connector

- 1 : Input1
- 2 : Input2/ACC
- 3 : Input3
- 4 : Input4
- 5 : Input5
- 6 : Input6
- 7 : Input7
- 8 : Input8
- 9 : Analog Input1
- 10 : Analog Input2
- 11 : Vout +5V
- 12 : Ground

The Input number 1, 2 are positive triggered inputs and Input number 3, 4, 5, 6, 7, 8 are negative triggered inputs. If you would like to use power saving function, please connect the Input2/ACC to ACC wire. The analog inputs are reserved.



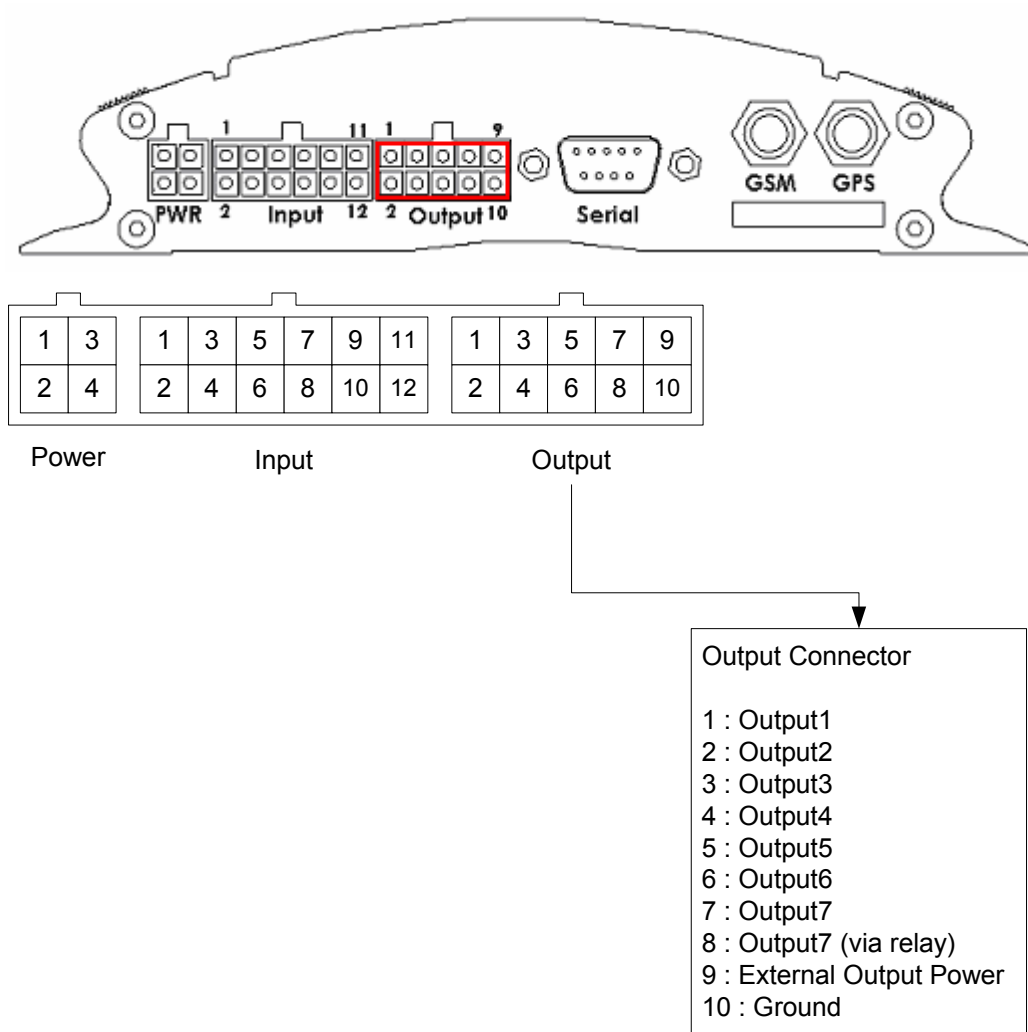
Positive Trigger:



Negative Trigger:



## 6. Install Output Cable



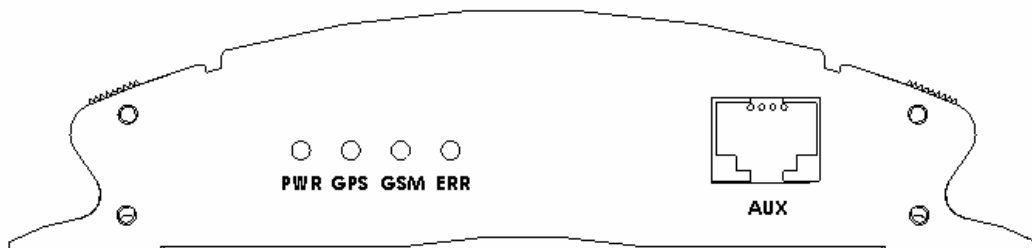
The output number 1, 2, 7 are positive triggered outputs and output number 3, 4, 5, 6 are negative triggered outputs. Pin number 7 and 8 are controlled by the same signal (OutputID = 7), Pin7 is positive trigger and pin8 is negative trigger. The OutputID = 8 is reserved for immobilizer control.

## 7. LED Indicators Status Description

There are 4 LEDs in front panel. When you power on the unit, these 4 LEDs will become blinking. After blinking several times, IntelliTrac X8 will start the modem which is inside the unit. In this time, the ERR led light is still bright. This is normal condition. Waiting for several seconds, the ERR led light will put out. Then you can start to manipulate the IntelliTrac X8.

**Note 1:** If the ERR led light is bright continuously, that means there is something wrong with IntelliTrac X8. You can not execute command to IntelliTrac X8.

**Note 2:** Before powering on the IntelliTrac X8, please make sure you have inserted the SIM card. Otherwise, the ERR led light will not put out.





<b>PWR LED Status</b>	<b>Function</b>
Off	Power off
90 ms On / 2 secs Off	The device is running in power saving mode.
500ms On / 500ms Off	Reset procedure is in progress
On	Power on

<b>GPS LED Status</b>	<b>Function</b>
Off	The GPS is off or running in power saving mode.
1 sec On / 1 sec Off	No GPS satellites signal received
On	GPS Ready

<b>GSM LED Status</b>	<b>Function</b>
Off	The device is off or running in power saving mode.
600 ms On / 600ms Off	No SIM card inserted or no PIN entered, or network search in progress, or network login in progress.
90 ms On / 3 secs Off	Logged to network. No call in progress.
90 ms toggle twice / 3sec	GPRS Network connected
On	Voice/Data call connected

<b>ERR LED Status</b>	<b>Function</b>
Off	The device is ready
On	The device is not ready

## 8. Unit Configuration

Connect the download cable between IntelliTrac unit and PC serial interface and use IntelliTrac InstallWizard program to configure a new IntelliTrac unit. Please refer to the InstallWizard User Manual for more detail information.