

GTR-128/GTR-129

Motorcycle/ Vehicle Tracker

Quick Start Guide



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1. Introduction

1.1 Introduction

GTR-128/GTR-129 is designed as a durable and multi-functional GPS/GSM/GPRS tracker. It integrates highly sensitive GPS module and quad-band GSM communication module with a powerful microcontroller that fits into a compact enclosure. The device is capable of being waterproof and ideal for use in a motorcycle, golf carts and vehicles. It is small in size and low in cost for covert and efficient tracking device. It provides real-time GPS positions anytime and anywhere with an open view to the sky, and offers precise positioning, and reports vehicle status to the server with necessary information shown on the map. Benefits such as enhanced fleet management, improved vehicle safety, emergency response, are all accomplished through the implementation of the GTR-128/GTR-129 system. The built-in GSM and GPS antennas are for easy installation without hassle.

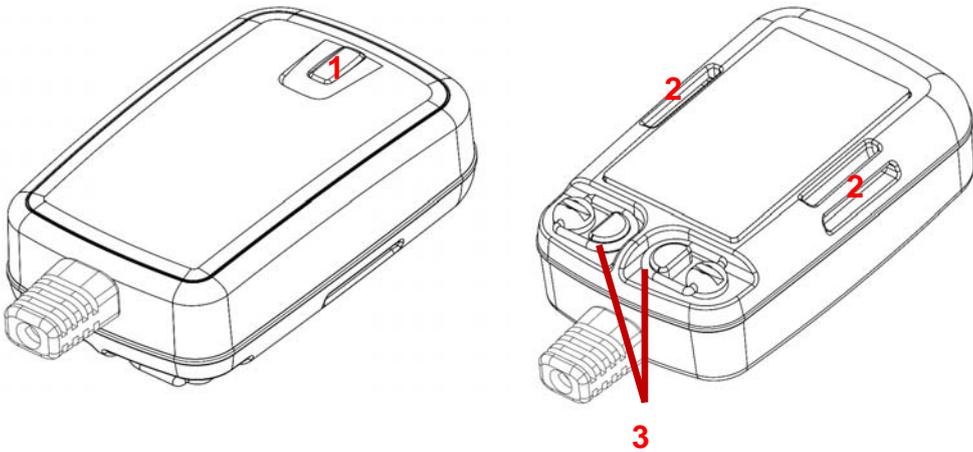
1.2 Features

- New generation GPS module.
- Compact and Waterproof IP67 design
- Built-in high sensitivity GPS/GSM antennas.
- Quad-Band GSM System
- Built-in motion sensor
- AGPS support
- Support communication protocols- SMS/TCP/UDP.
- Multiple I/Os support: 1 Digital Input for custom function, 1 Digital input for optional Emergency button, 1 Analog Input for fuel sensor, 1 Digital Output for Relay, 1 Digital Input for ACC detection.
- Configuration and Firmware update via Over-The-Air
- Alert functions including Power low/ Over speed/ Movement alarms
- Tracking by preferred interval, scheduling and Geo-fence
- With magnet (GTR-128) or double side tape (GTR-129) for easy installation
- Multiple power solution

1.3 Hardware specification

Item	Description		
Model	GTR-128	GTR-129	
Back-up Battery (Option)	Li-Polymer 320mAh		
Temperature	Operation	-30°C ~ + 70°C	-30°C ~ + 60°C (0°C ~ + 45°C for charging)
	Storage	-40°C ~ + 70°C	-40°C ~ + 60°C
Dimension	61 mm X 38 mm X 19 mm		
GPS receiver	high performance GPS chipset		
Communication	Quad-Band GSM (850/900/1800/1900 MHz)		
GPS Antenna	Built-in patch ceramics antenna		
GSM Antenna	Built-in Pi-Fa antenna		
Protocol	SMS/GPRS (TCP/UDP)		
Power	+9~36 V		
Built-in Memory	32 Mb		
Emergency Input	Negative trigger x 1		
Ignition (ACC) Input	Positive trigger x 1		
Digital Input Port	Negative trigger x 1		
Digital Output Port	Negative trigger x 1 (300 mA)		
Fuel sensor Input Port	Analog Input x 1(0~28V), 12 bits resolution		
Sensor	Motion sensor		
Humidity	5% to 95% Non-Condensing		

1.4 Appearance



1	LED
2	For fixing device with Velcro tape
3	Hook for screw/ unscrew back cover

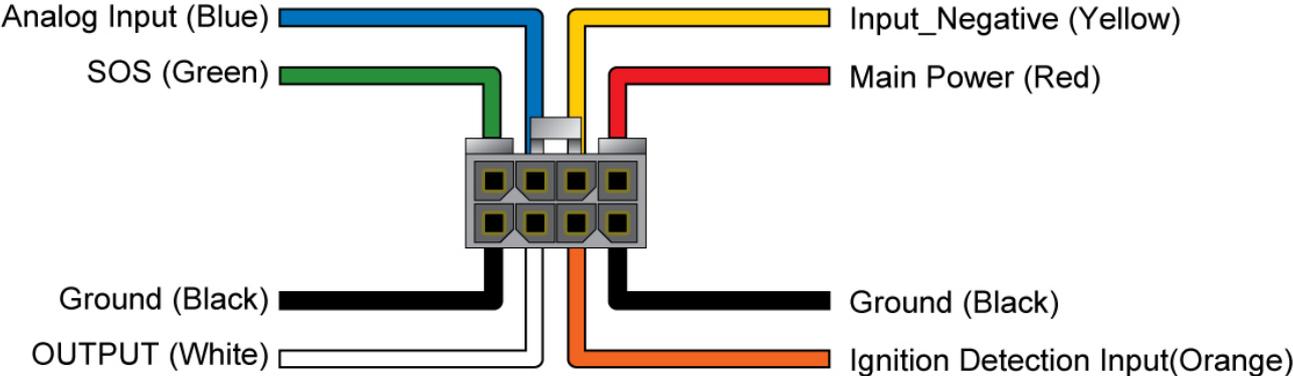
1.5 LED indicator

Normal mode:

LED status	Description
Red blinking	Device is being boot and SIM card not ready
Red solid	SIM card ready, but GSM not registered
Yellow solid	GSM registered, but GPRS not connected
Green solid	GSM registered, and GPRS connected

Hiding mode: Device would blink red light while it is booting up. After completing the boot, the LED would go off.

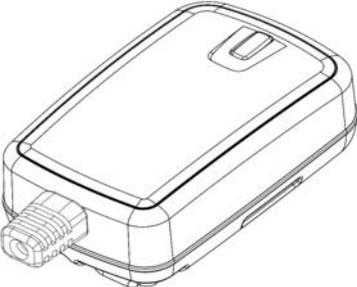
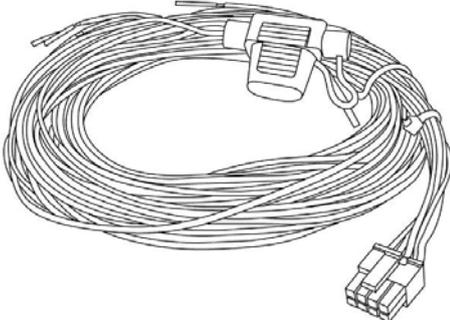
1.6 Cable description



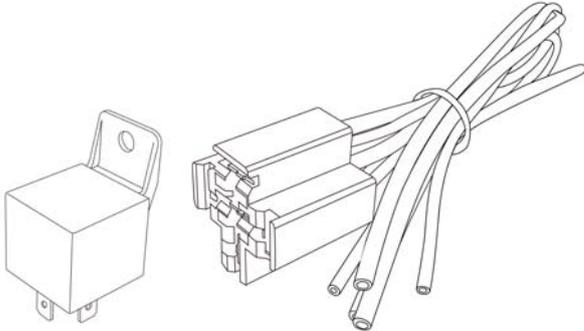
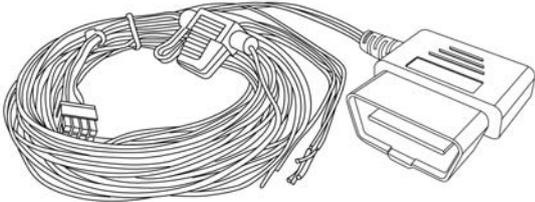
Wire Color	Description
Green	SOS (Negative Trigger)
Blue	Fuel sensor input (Analog Input, 0~28 V, 12 bits resolution)
Yellow	Digital Input (Negative Trigger)
Red	Main Power, 9~36 V
Black	Ground
White	Digital Output (Negative Trigger), 300 mA
Orange	Ignition Detection Input (Positive Trigger)
Black	Ground

1.7 Accessories

1.7.1 Standard Items

 <p>Main Unit</p>	 <p>Hardwire cable</p>
 <p>Velcro Tape</p>	

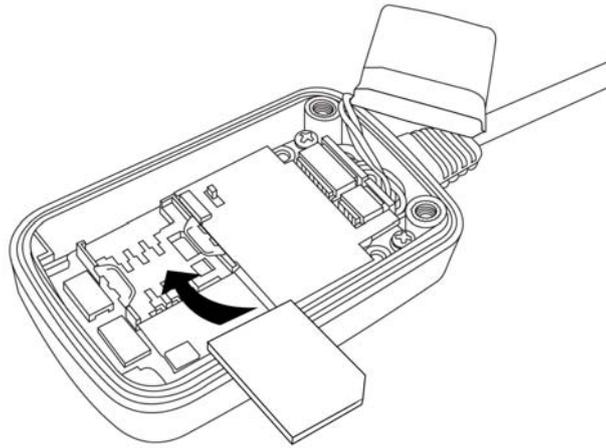
1.7.2 Optional Items

 <p>External Emergency Button</p>	 <p>12V/24V Relay</p>
 <p>OBDII Power Cable</p>	

2 Operation

For first time users, please follow the steps below to complete the pre-installation.

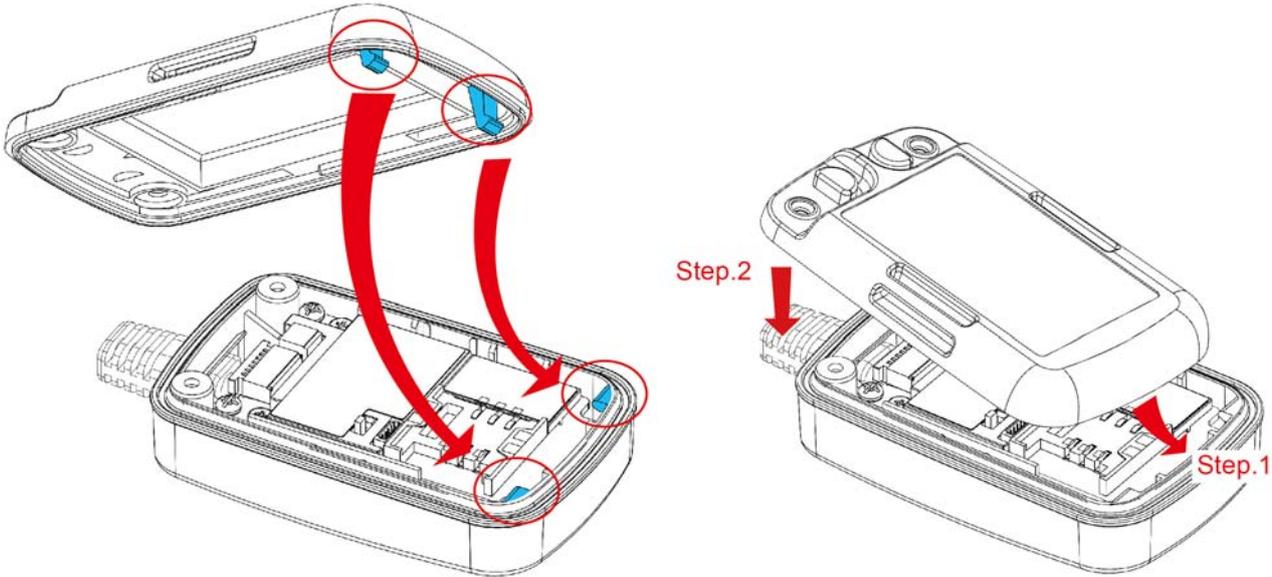
2.1 Install the SIM card



Unscrew the cover of device. Insert SIM card with the copper contacts face-down and the notch on the SIM card at the right side of the SIM slot.

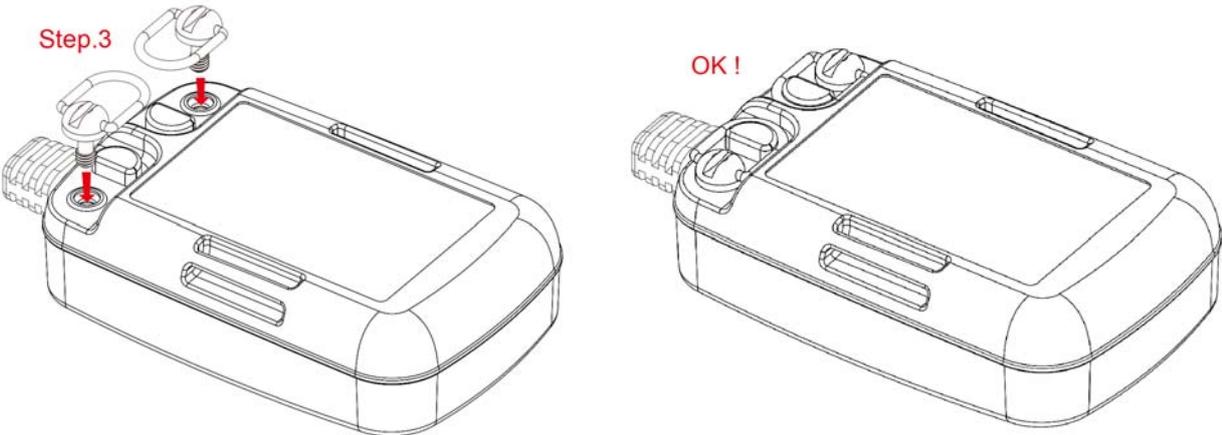
Note: Make sure to disable the SIM PIN entry function on the SIM card before inserting your SIM card

After installing the SIM card, please follow the steps below to install the cover back.



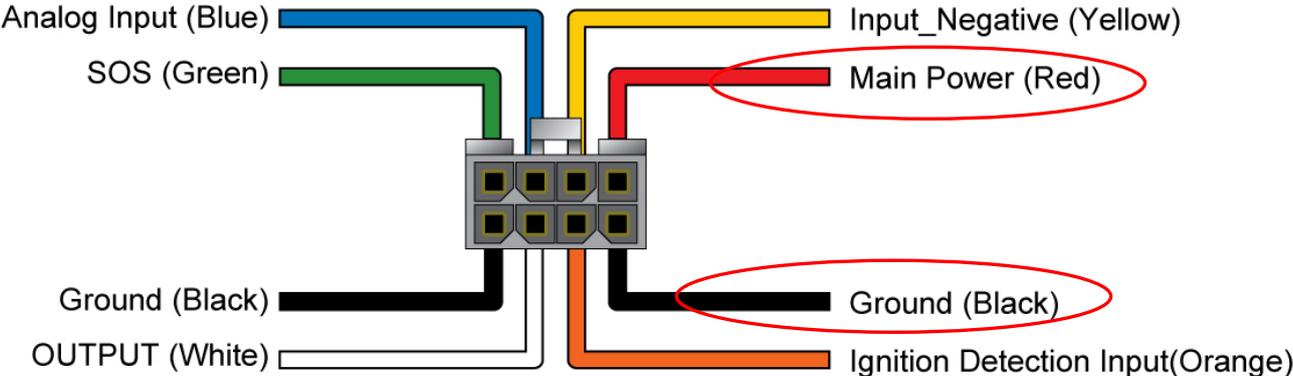
Step 1: Please align the latches of the back cover to the indentation of the device.

Step 2: Please push down the back cover to the device.



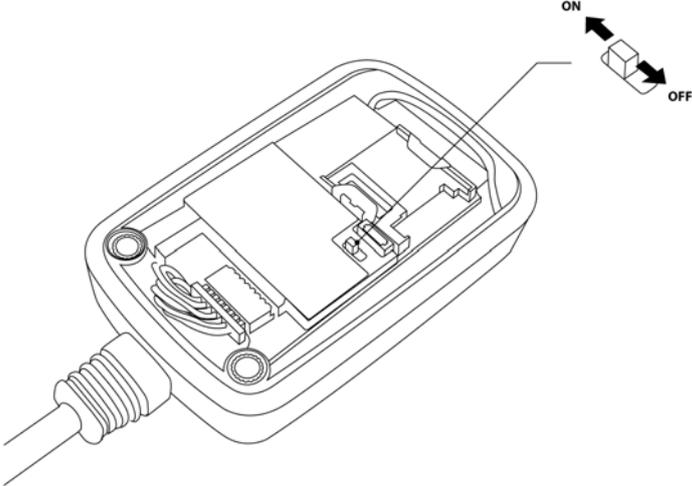
Step 3: Please screw the back cover.

2.2 Connect the Main Power



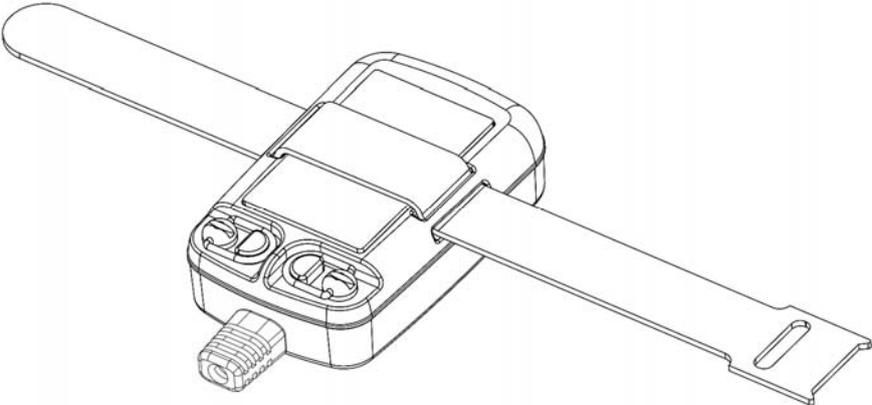
Connect the red wire from the cable to a power source of 9~36 V. Connect the black wire to ground.

2.3 Switch on/off Tracker

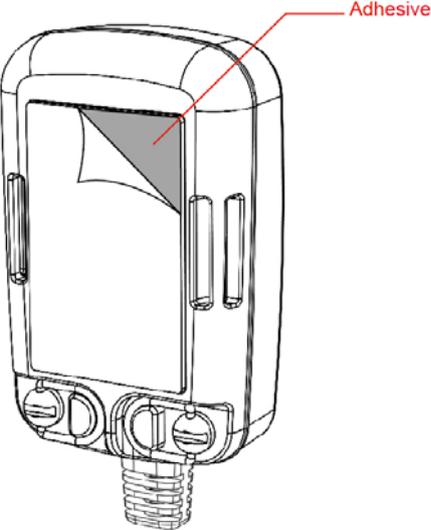


After connecting the power, please open the back cover and adjust the power switch to ON position.

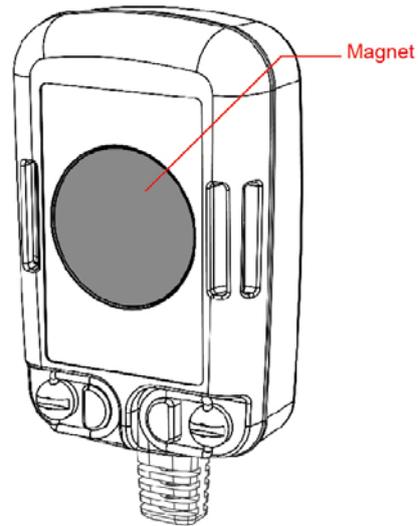
2.4 Fix the device



You could fix the GTR-128/GTR-129 with the Velcro tape as the picture above.



You could tear down the cover of double side tape and stick GTR-129 to the installation position.

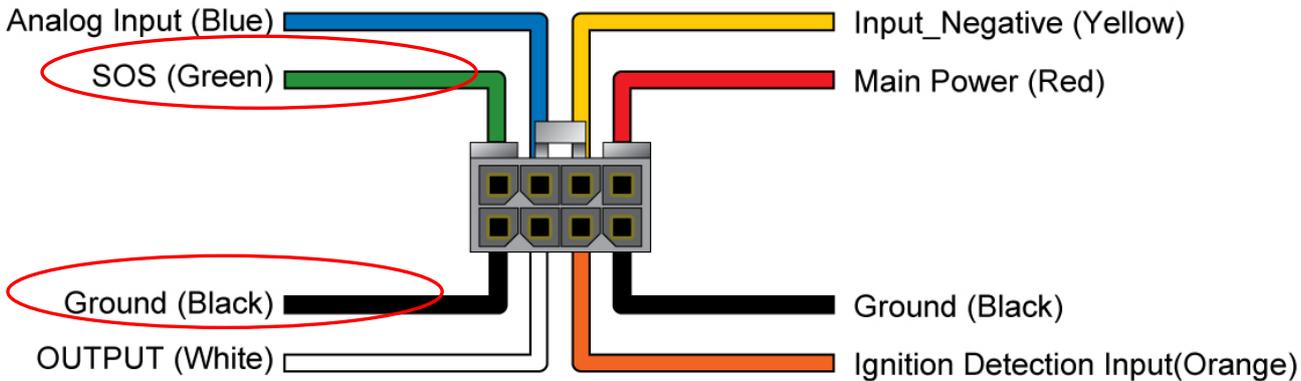


You could install the GTR-128 to a metal surface. The magnet on the device would attract the metal surface.

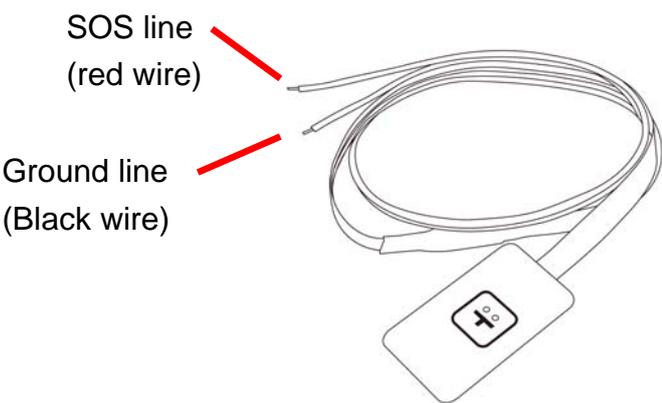
3 Installation

3.1 Installing the Emergency button

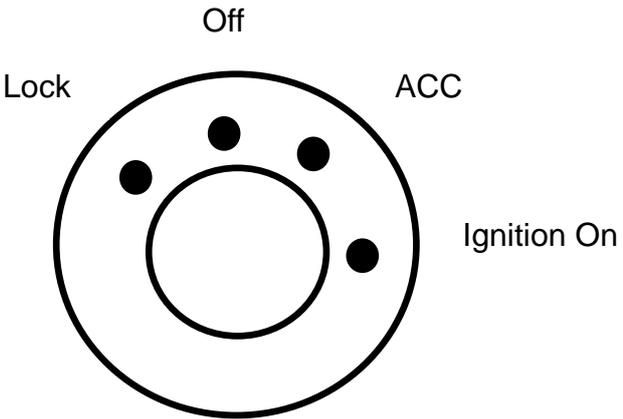
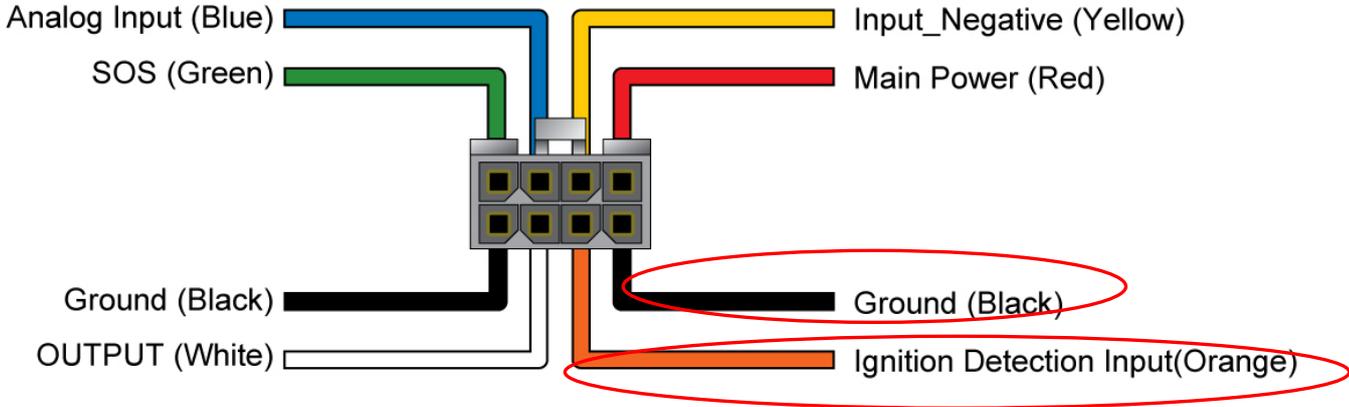
There is a line of cable for connecting a push button for emergency help.



One end of the button must be connected to the SOS line and the other end must be connected to the ground line.

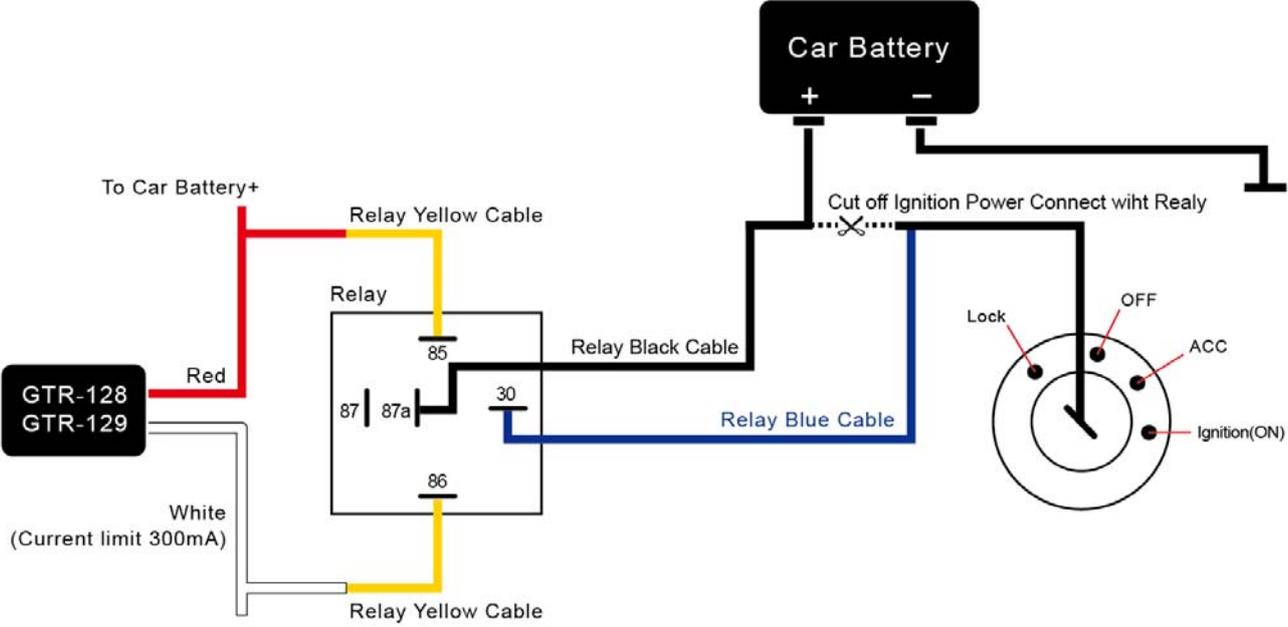


3.2 Connecting ignition detection line on car



Connect the orange wire from the cable to ACC position of vehicle. Connect the black wire to ground.

3.3 Connecting Relay



Connect the white wire from GTR-128/GTR-129's cable to the yellow wire of relay. For the other connections, please refer to the diagram above.

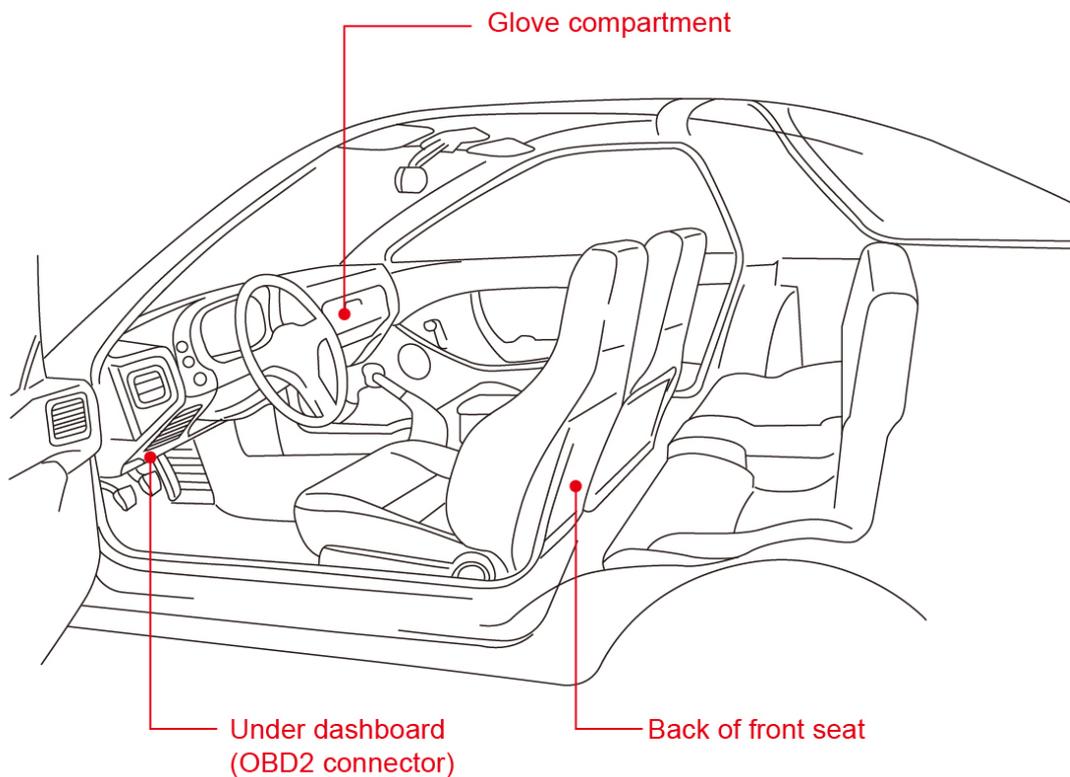
3.4 Installation reminder

WARNING:

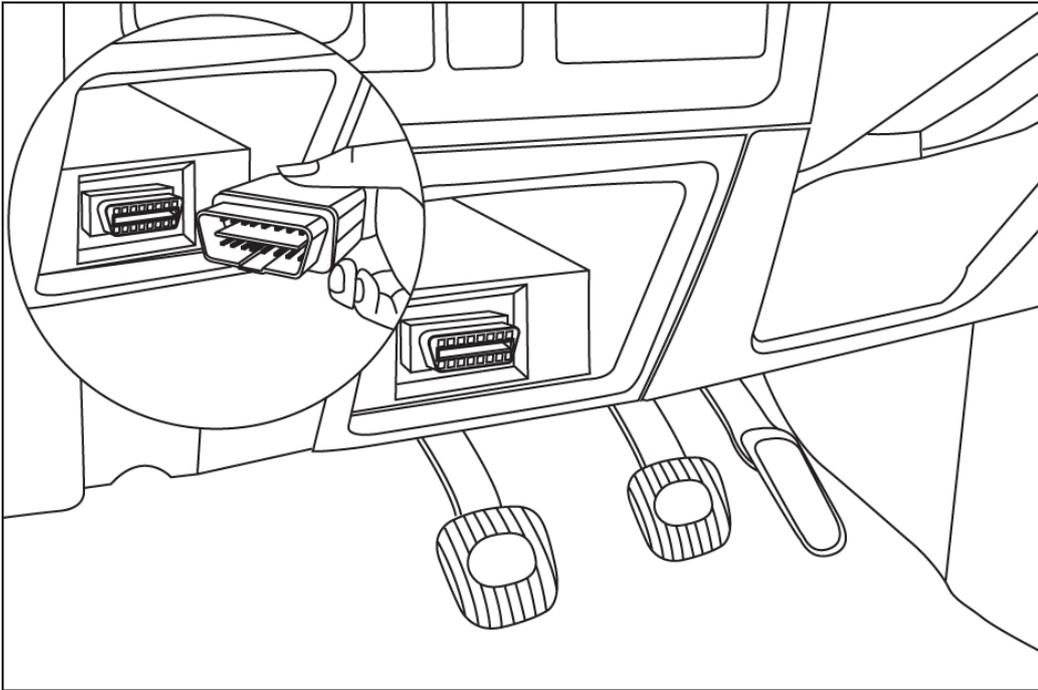
In a confined space of the car, there is a big different temperature between inside and outside of the car. In addition, it is also considerable temperature difference between tracker's interior and exterior. Therefore, if you put a tracker in the car, please make sure to place it with good ventilation.

For Vehicle:

GTR-128/GTR-129 could be placed or installed on the marked position as the pictures below.



If you'd like to install GTR-128/GTR-129 at the OBDII connector of vehicles, please connect GTR-128/GTR-129 with the OBDII power cable firstly, then you could connect the OBDII power cable to the OBDII connector of vehicle as the picture below.



For Motorcycle

- For motorcycle rider, GTR-128/GTR-129 could be installed at the marked position as the picture as below.

