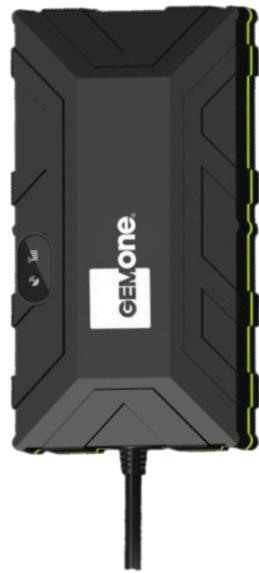


User Manual



TE-304B-A12
GEM-OX-GU

Product manuals

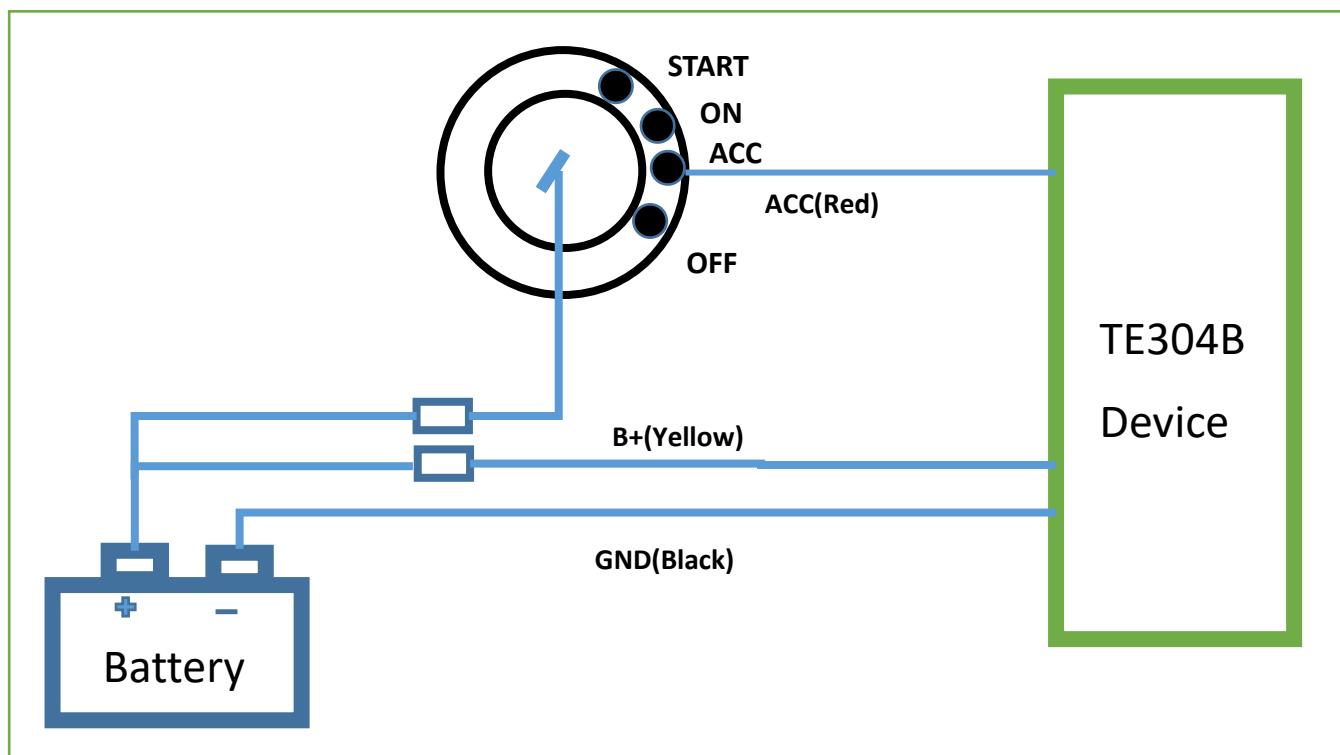
Packing list

Product model	listing subsidiary	note
TE-304B-A12	1 PCS GPS device 1 copy of user manual	American version
TE-304B-E12	1 PCS GPS device 1 copy of user manual	European version

Introduction

GPS device connects to car battery. Do not jump over the fuse to connect to car battery directly(see figure).

Note: THE ACC must be connected, otherwise the device will go to sleep.



SIM card Introduction Guide

Open the back card cover, insert the SIM card into the slot, and then close the buckle.(**You need to buy the card by yourself**)

Type of card supported: **Nano SIM card**.



Unplug The SIM Card

Open the black card cover with the disassembly tool,pull out the card slot cover by hand,remove the sim card, and then close the card cover.



Statements and Warnings: The device card cover is locked with special screws, and can only be opened by professional installation tools and installation personnel.

LED Indications

After the device is successful power on, the current device status can be checked through the LED indicator of the device.

Indicator light	Indicator status	Status
Green GSM indicator	FLICKER SLOWLY (200MS ON/1800MS OFF)	NETWORK SEARCHING
	FLICKER SLOWLY (1800MS ON/200MS OFF)	IDLE
	FLICKER QUICKLY (125MS ON /125MS OFF)	DATA TRANSFER IS ONGOING
	ALWAYS ON	VOICE CALLING
Blue GPS indicator	FLICKER QUICKLY (200MS ON/200MS OFF)	GPS IS NOT FIX
	FLICKER SLOWLY (1000MS ON/4000MS OFF)	GPS FIX
	ALWAYS OFF	GPS FAULTY

Signal Line Connector

12 Pin Signal Line

Wire	Name	Remarks	colour
1	B+	9-90V DC	黄色
2	GND	GND	黑色
3	Din1(ACC)	0 up to 90V tolerance Din1 0-8V is logic '0', ACC off Din1 8-90V is logic '1', ACC on	红色
4	Dout1	Open-drain with Imax = 350mA	灰色
5	Din2	0 up to 90V tolerance Din2 0-8V is logic '0' Din2 8-90V is logic '1'	橙色

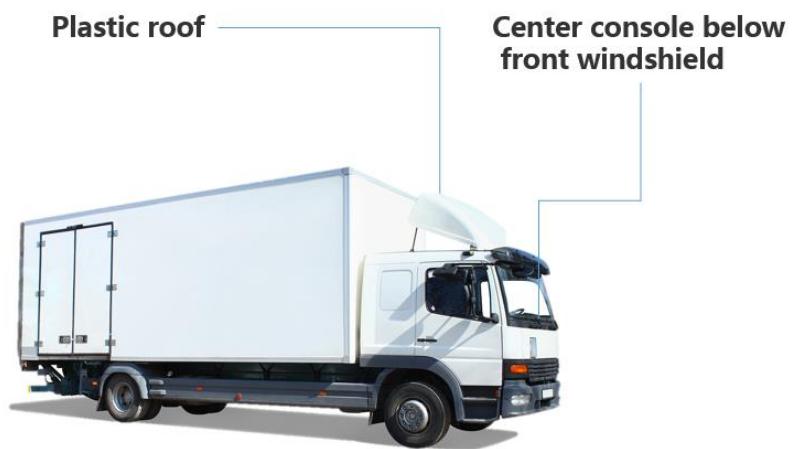
6	12V out	12V output $I_{max} = 120mA$	粉黑色
7	Din3	0 up to 90V tolerance Din3 0-8V is logic '0' Din3 8-90V is logic '1'	蓝色
8	RS232_TX1		橙白色
9	RS232_RX1		蓝白色
10	Dout2	- Open-drain with $I_{max} = 350mA$	棕色
11	1-wire		紫色
12	Ain1	0V to B+ (90V) 98.5% accuracy 12bit ADC.	绿色

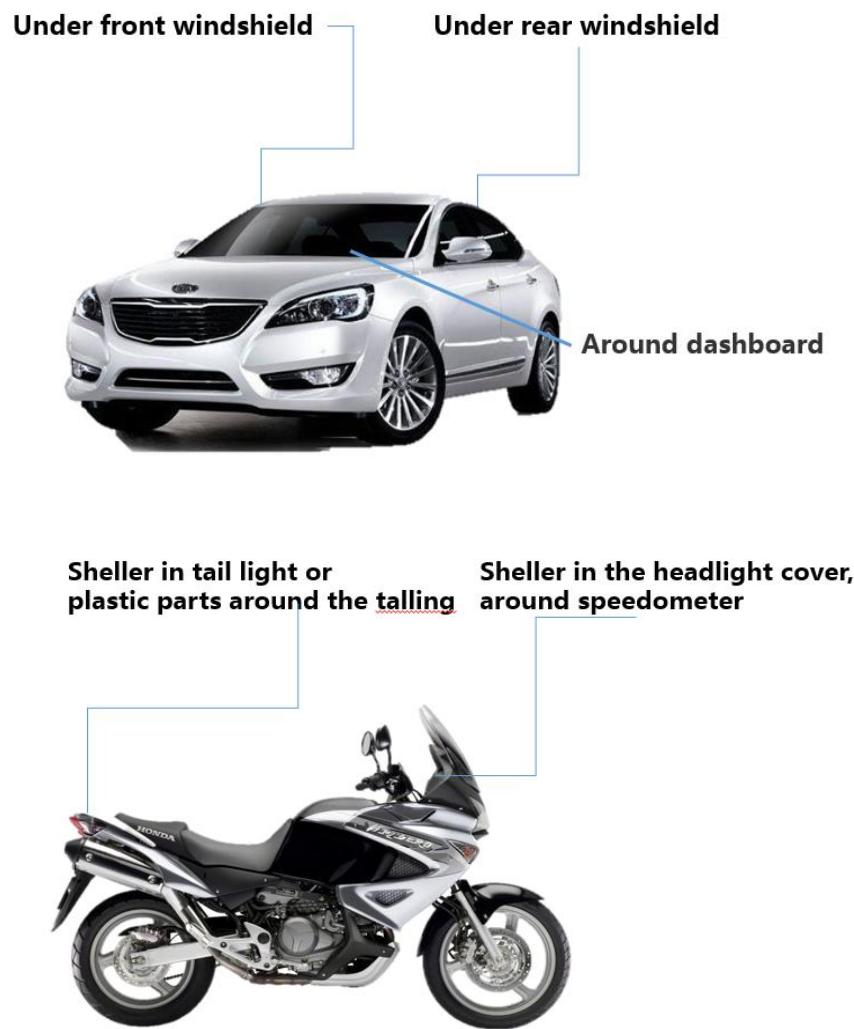
Install The Device

1. Installation Precautions

- (a) Do not install the device near the source of interference;
- (b) No metal objects above the device;

2. The recommended installation position is shown in the figure





Device Parameter Setting

1. Send a text message to the device through a mobile phone;

The parameter setting is completed after the mobile phone receives a feedback SMS from the device.

2. Setup accepted:SMS prompt "IMEI,executed,conf"

Setup failed: SMS prompt "IMEI,failed,conf"

Setting Failure Solution

- 1.If the wireless signal is low, the setting may fail.please check GSM LED indicator.
- 2.please check the sent SMS content according to device feedback SMS.
- 3.Please try to reset the device by pressing the Reset button, and set the parameter again.

Set Parameters by SMS

Setting Parameters	Send short message content
SOS	conf set sos ***
SOS1	conf set sos1 ***
SOS2	conf set sos2 ***
SOS3	conf set sos3 ***
apnname	conf set apnname ***
apnusername	conf set apnusername ***
apnpassword	conf set apnpassword ***
reportoninterval	conf set reportoninterval val(val range 5-86400)
gsensorxsens	conf set gsensorxsens val(val range 0-10000)
gsensorysens	conf set gsensorysens val(val range 0-10000)
gsensorzsens	conf set gsensorzsens val(val range 0-10000)

gsensorcrashsens	conf set gsensorcrashsens val(val range 0-10)
protocoltype	conf set protocoltype val(0-wialon,2-GEM)
ipaddr	conf set ipaddr ***
port	conf set port ***

Other SMS Commands

- 1.**update app:** device firmware upgrade
- 2.**reset:** restart the device
- 3.**factory:** restore factory settings

(Please contact Thinkpower for more SMS commands.)

Precautions

1. The main body of the product contains batteries, please do not approach the fire source or cast it into the water to avoid the risk of fire.
2. The product may cause damage when it is put into the water.

Basic Parameters

Battery: Li-Polymer, 400mAh

Operating Voltage: 9V to 90V DC

Dimensions: 108.4*58.9*18.7mm

Weight: 160g (Contains the tail line)

Waterproof Grade: IP67

Operating Temperature: -20~60°C

FCC Statement:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment should be installed and operated with minimum distance 20cm between the radiator&your body.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.