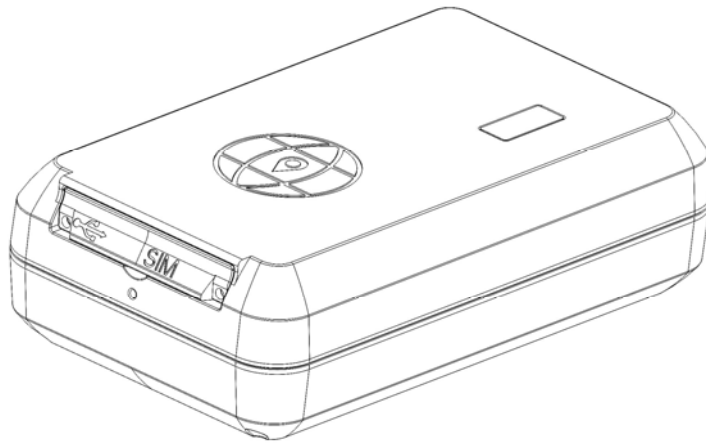# GPS Tracker
Manual

Model:MT18C/902B

<Version 6.2_2016/12/08>

Please read this manual carefully before attempting installation and online activation. Pictures are for indication and illustration purposes only

1. Functions

- GSM 850/900/1800/1900MHz
- Inbuilt rechargeable battery
- GPS location, GPRS timing report
- Inquires the position by SMS or mobilephone or PC
- Built-in vibration G-sensor, vehicle anti-theft
- Inbuilt super magnet,can be attached with metal strongly
- Drop off button/drop alarm
- Support different working modes

2. Specification

GSM: 850/900/1800/1900MHz
GPRS: Class 12, TCP/IP
Working Voltage: 3.90V DC
Working Current:≈35mA
Sleep current:≈4mA
wake on time current: ≈0.2ma
GPS fixed time: Cold start 30sec(open sky)
                 Warm start 29sec(open sky)
                 Hot start 5sec (open sky)
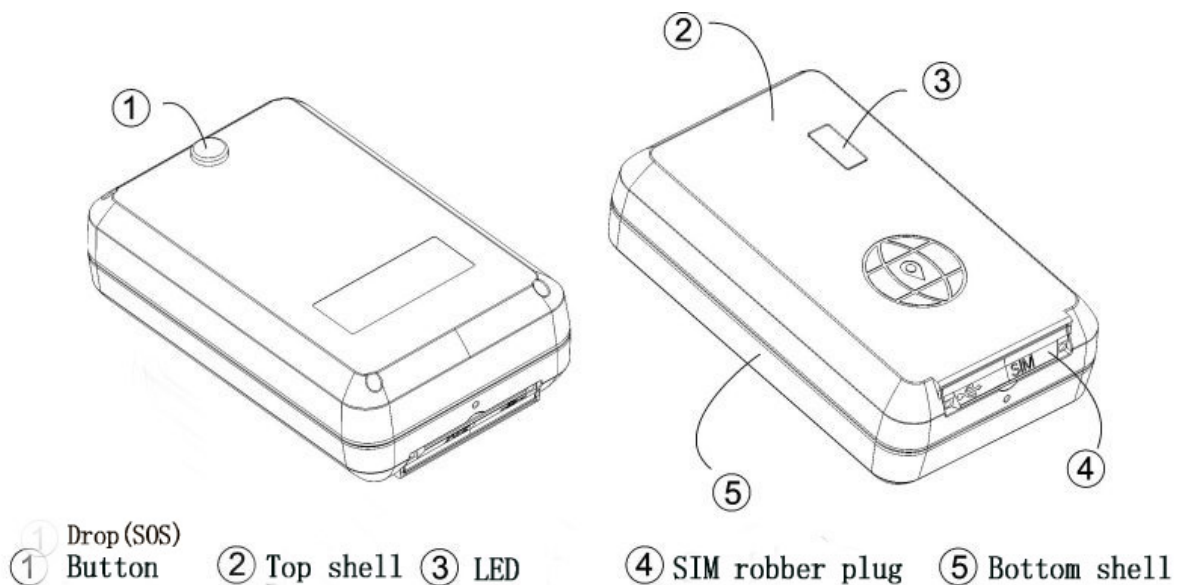GPS fixed precision: 10m (2D RM)
Temperature: -20℃ ~ +70℃
Humidity: 20% ~ 80% RH
Dimension: 87.0(L)x54.0(W) x26(H)mm
Weight: 120g

① Drop(SOS) Button   ② Top shell   ③ LED   ④ SIM robber plug   ⑤ Bottom shell

3. Installation steps

1.Insert GSM simcard,and note down the IMEI Number of tracker

↓

4. Set tracker by sending sms(Set center number/apn name)

↓

5. Forward the IMEI numbers to us,we will add to our platform and provide account/password

Prepare

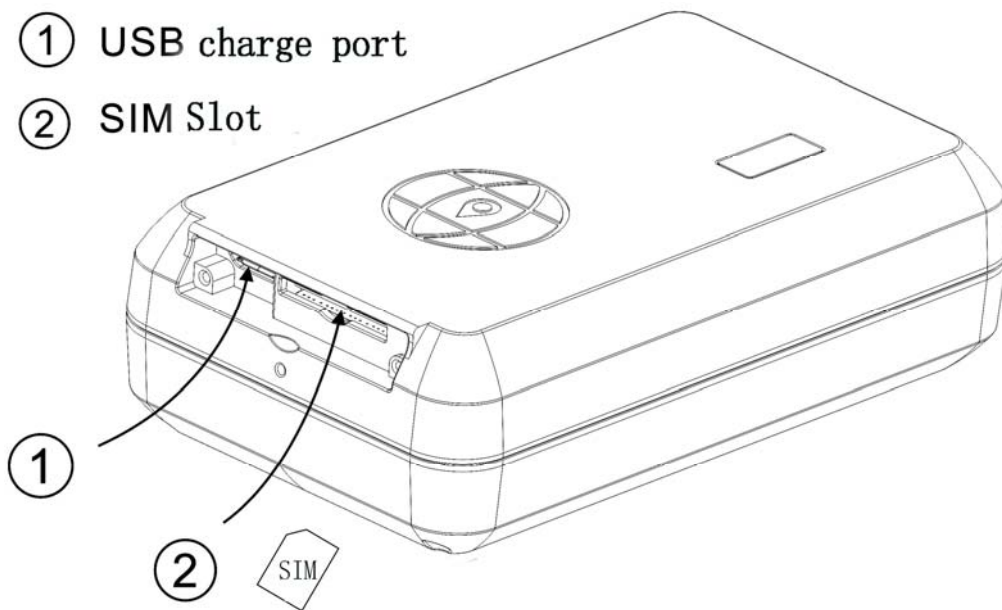3.1.1 SIM Card:Please use a GSM SIM card(2G , 3G or 4G mixed with 2G)

3.1.2 Be sure the GPRS of simcard is available; if not, please contact the simcard Provider.

3.1.3 Be sure the sms function of simcard is available.

3.2 Simcard installation and tracker will be power on automaticlly:

① USB charge port
② SIM Slot

3.3 Installation:<Please pay attention to the following matters>

3.3.1 Concealed installation for avoid the thieves damage.

3.3.2 Avoid install together with the RF source, such as reversing radar, alarm and other vehicle communication equipment.
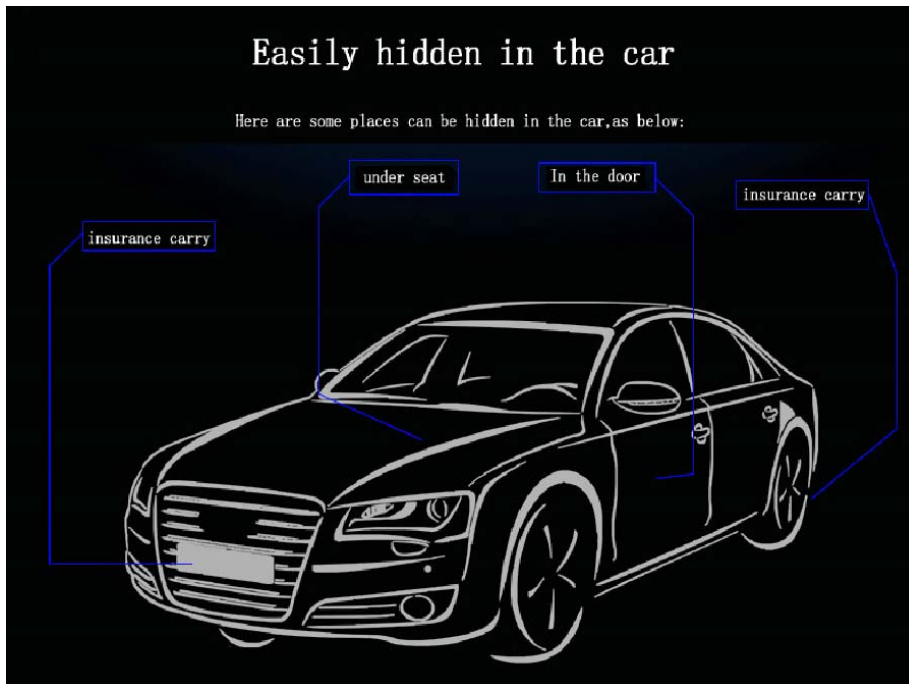
3.3.3 Can use ribbon or wide sponge strength double-faced adhesive stick to fix.

3.3.4 Equipment with GSM antenna and GPS antenna, installation shall ensure that face up (skyward), and above no metal barrier shield, suggest installation position:

Front windshield decorative below the covert,

Front panel (skin for non-metal material) around the shadow

Rear window below decorative

4. Settings by sending SMS:

4.1 If use tracking platform,please send us your GPS IMEI number/ID number,so we will open account for you to login our tracking website: http://www.twogps.com   (demo account:888,password:123456) .In addition,you can click on the "Android"/"Iphone" to download the app for smartphone.(Server:www.twogps.com , with same accounts as tracking website).

Download IOS app from App store:Research by "*TWOGPS*"

4.2 All commands will be replied by tracker. If set successful it will reply "set **** ok!" otherwise need to check the format and set again. Send the corresponding commands ,the device will reply the corresponding results.

4.2.0 Set the center number:

Notes:If you want to use SMS to set device's working parameter or control the device, you must set the center number first. Device only accept SMS commands from the center number, you can set your mobile phone number as the center number(country code is needed in front of the center number.Example, code for China is :+86 ,so you can set the center number to be: +8613800138000 .

The center number command: Center,A,number#
Example: Center,A,+8613800138000#
If the service center number is set successful, the device will reply: SET CENTER TEL OK!

Note: All the other sms commands should be set by the center number
4.2.1 Language setting:
Format1:LANG,1#   (The replied sms from tracker will be in Chinese)
Format2:LANG,0#   (The replied sms from tracker will be in English)

4.2.2 APN setting:

Format1 (APN with username and password):APN,apnname,user,password#
Example：APN,intenet,123,123#

Format2(without username/password):APN,apnname#
Example：APN,cmnet#

4.2.3 TIMER SETTING(when vehicle is moving)：

Format:TIMER,10#
Means GPRS data will be transmitted to server every 30 seconds,timer should be 10~60(unit:seconds)
Default:10 seconds ,when timer is :0 ,means it wont send GPRS data when moving.

5.1Led status:

LED scintillation state meaning interpretation

LED	Scintillation state	Meaning
Charge LED	On	Fully charged
Blue	Flashing(0.3/3S)	Charging
working LED	Flashing(0.3/3S)	GPS Working/restarting
Red	off	In Sleep mode
All Leds should be off after 3 minutes,it is normal		
When being recharged,Red led will be flashing till full charged(LED keeps on)		

5.2 Commands List

1)CENTER		
Text command	Parameter	Example
CENTER Add	CENTER,A,number#	CENTER,A,13500135000#
CENTER Del	CENTER,D#	CENTER,D#
Command Description	1)Center number can control the oil and power and resume factory settings 2) Center number can receive the call and text of vibration alarm and over speeding alarm. 3) SIM must display the income call number to control oil and power. 4) Only one number can be center number. 5) Change center number must resend the command. 6)Add new center number by CETNER,A, and delete by CENTER,D	
Command Feedback	Successful Setting：SET CENTER TEL OK!	

2)APN		
Text command	Parameter	Example
APN Setting	APN,apn[,username, password]	1：APN,intenet,123,123# 2：APN,cmnet#
Command Description	APN differs according to the local telecom operators. For example：APN request password，please refer to Example1，and Example2 for no password.	
Command Feedback	Successful Setting：SET APN OK！	

3)TIMER

Text command	Parameter	Example
TIMEER Parameter setting	TIMER,uploading interval#	TIMER,30#
Command Description	Time scope：0，10~60 seconds；　　0,no data uploading； 10~60,means time interval；the default value is 10 seconds！	
Command Feedback	Successful Setting：SET TIMER OK！	

4)Working modes

Text command	Parameter	Example
Sleep modes	Sleep,modes#	SLEEP,0#　　(Normally working Mode) SLEEP,1#　　（Smart sleep mode） SLEEP,2#　　（Deep sleep mode）
Parameter		
Command Description	**Defaulty mode**:Smart sleep mode,when car moving,GPS will work;When car stopped,GPS will be in standby mode **1.Smart sleep mode**:GPS will close GPS and GPRS after stopped over 3 minutes,and it will be offline on platform;When car moved,it will work automatically **2.Deep sleep mode**:GPS will be in deep sleep mode all the time till received sms command(wake#) or received calling from center phone.Everytime waking up from deep sleep mode,it only work for 3 minutes,then goes to deep sleep again. **3.Normally working mode**:GPS will work all the time,unless the GPS is undegroud or at some places No GPS signal	
Feedback	Successful Setting：Sleep mode OK！	

5) Power on time

Text command	Parameter	Example
Power supply cut	Power,time#	POWER,10#　　Power on automatically every 10 hours POWER,102#　　Power on automatically every 2 days
Command Description	1)Set GPS to be working in this mode,need to lock the drop button first. 2)Sending the sms command to make GPS work in this mode,then the other three working modes above will be closed 3)Time range：1~24 hours,or 102~107，102 means 2days	
Command Feedback	Successful Setting：SET power time OK！	

6) Power off on time

Text command	Parameter	Example
Power supply cut	POFF,minutes#	POFF,3#　　means GPS will be off after 3 minutes
Command Description	1)The command(POFF) only work with the mode" power on time" 2)Defaulty:3 minutes 3)This sms command cant work when the drop button is released or GPS is charging 4)time range:3~10 minutes	
Command Feedback	Successful Setting：SET power alarm OK！	

7) **WAKE Command**		
Text command	Parameter	Example
Lower alarm	Wake#	Wake#
Command Description	1)WAK# used to wake up GPS from"Smart sleep mode" and "Deep sleep mode" 2)This sms cant be used for normally working mode and power on time mode 3)If GPS is working(Not in sleep),cant send this sms	
Command Feedback	Successful Setting：SET wake OK!	

8)**GMT**		
Text command	Parameter	Example
GMT	GMT,location, time zone[,half time zone]#	GMT,E,8# GMT,E,5,30#
Command Description	The default time zone is Beijing time. If time zone need revised, please operate according to the above command.	
Command Feedback	Successful Setting：SET GMT OK!	

9)**VIBRATION**		
Text command	Parameter	Example
VIBRATION Parameter	VIBRATION, alarming level[,alarming way]#	1)VIBRATION,2,3# 2)VIBRATION,2#
Command Description	the sensitivity value of the vibration is from 1 to 5，1 is the most sensitive and o is close. Alarming ways: 1, calling 2, texting, 3 calling and texting. Must set the center number and receiving number. When there is motion,GPS will make VIBRATION alarm after vehicle stopped over 5 minutes	
Command Feedback	Successful reply：SET VIBRATION OK!	

10)**Drop/SOS alarm**		
Text command	Parameter	Example
SPEEDING Parameter	FCALM,alarm modes#	FCALM,0# alarm closed(Defauty) FCALM,1# alarm by calling FCALM,2# alarm by SMS FCALM,3# alarm by SMS+calling
Command Description	This SMS used to set the alarm modes when GPS make drop alarm(SOS alarm). Defauty mode: closed(FCALM,0#),GPS wont make alarm by sms or calling,only report alarm on platform.	
Command Feedback	Successful Setting：SET alarm OK!	
11)**LISTEN(Voice monitor)**		
Text command	Parameter	Example
LISTEN	LISTEN,0~1#	1)LISTEN,1# 2)LISTEN,0#
Command Description	The instruction for the monitoring, range 0 ~ 1, monitoring function default is half closed; IF need to opened, according to Sample 1 send instructions, if need to be closed, according to Sample 2 send instruction; Set up monitoring number must be center number;	

	Equipment used by SIM card must have the call display function;
Command Feedback	Successful return：SET LISTEN OK!

12)LTIME (Voice monitor time)

Text command	Parameter	Sample
LTIME	LTIME,minute#	LTIME,5#
Instruction application	This is used to set up monitoring time Scope: 3 ~ 30 minutes, default is 3 minutes	
Instruction return	Succfull return：SET LISTEN TIME OK！	

13)RESET

Text command	Parameter	Example
RESET	RESET#	RESET#
Command Description	Reset the device	
Command Feedback	Successful Setting：RESET OK！	

14)FACTORY

Text command	Parameter	Example
FACTORY	FACTORY#	FACTORY#
Command Description	Restore the factory setting Only center number can initial this function Factory setting will recover to the original setting	
Command Feedback	Successful Setting：FACTORY OK！	

15)LANG

Text command	Parameter	Example
LANG Parameter	LANG,1# LANG,0#	LANG,1# 1:CHINESE，0：ENGLISH
Command Description	；When check the location, it will reply the Chinese location in Chinese language setting; while reply the URL link when in English language setting.	
Command Feedback	Successful Setting：SET LANG OK！	

Inquires the class instruction

16)WHERE

Text command	Parameter	Example
WHERE	WHERE#	WHERE#
Command Description	Check the longitude and altitude and other information of the device	
Command Feedback	Reply with longitude and altitude, speed and IMEL.	

17)123

Text command	Parameter	Example

123	123	123
Command Description	Check the current location	
Command Feedback	When check the location, it will reply the real address location by sms in English,also with URL link	

18)**URL**		
Text command	Parameter	Example
WHERE	URL#	URL#
Command Description	Check the location link of Google map	
Command Feedback	<Datetime:12-07-05 13:21:30> http://maps.google.com/maps?q=N22.540885,E113.95265	

19)**NUMBER**		
Text command	Parameter	Example
VERSION	NUMBER#	NUMBER#
Command Description	The command is to check the CENTER NUMBERS	
Command Feedback	Center number:Xxxx	

20)**PARAM**		
Text command	Parameter	Example
PARAM	PARAM#	PARAM#
Command Description	The command is to check the settings and the default parameter.	
Command Feedback	IMEI:351190012535936 CENTER: center number APN:cmnet Language(CN/EN) IP:IP and port GMT: time zone (E/W8) TIMER: moving uploading interval STATIC: static uploading interval	

21)**STATUS**		
Text command	Parameter	Example
STATUS	STATUS#	STATUS#
Command Description	The command is designed for checking the device's working status.	
Command Feedback	BATTERY:100% -- Battery status (SOC) GSM Signal: MIDDLE --GSM Signal strength GPS:FIXED --GPS Location condition GPS Signal: MIDDLE --GPS Signal strength RELAYER:DISABLE -- Oil circuit state CHARGER:NORMAL -- Circuit state	

22)**SIMCARD Balance check**		
Text command	Parameter	Example
FEE	**FEE**,Service NUMBER,Command content**#**	FEE,10086,CXYE#
Command Description	The command is used to check balance of simcard in GPS device	

Command Description	Service Number:It is the service number of simcard operator Command content:It is the SMS content used for user to check balance of simcard by sending sms to service number. Example: FEE,10086, CXYE# In China,we need to send sms: CXYE To 10086 CXYE is the SMS content for user to check balance 10086 is Service number of SIM provider #　is the ending character

Notes:

6.Battery recharge:

Please use the USB cable(we provided) for GPS recharging.Because the currect of USB cable will be >1A.

7.Drop off alarm(SOS alarm):

7.1 When GPS is adsored to metal by magnetic,the bottom button will be kept pressed;
　　Then if someone removed GPS,the button will be released,so GPS will make drop alarm(SOS alarm) on platform and app.
　　<If bottom button is locked,the drop alarm will be closed>
7.2 If calling/sms alarm is opened,GPS will send sms(calling) to center phone at same time

8.GPS Sleep&wake:

　A.Enter "Smat Sleep mode" :While GPS in" Smart sleep mode" ,it will be in sleep after 3 minutes automatically.
　　"Wake up" :if there is any movement or vibration,GPS will wake up automaiclly.
　B.Enter "Deep sleep mode":While GPS in "Deep sleep mode",GPS will be in Deep sleep all the time till received SMS(wake#) or calling from center phone.GPS will only work 3 minutes when it wake up from Deep sleep mode…("Lazy" mode O(∩_∩)O~)
　C.If GPS opened voice monitor function,GPS wont wake up by calling from center phone,it will be listened directly by calling from center phone..So user need to send sms(wake#) to wake up GPS.

6.Tracking online

Login our platform or app from:www.twogps.com
Platform video : https://youtu.be/EW4lXZgjxSA