GPS Vehicle tracker
(GPS+GSM+SMS/GPRS)

GT02D User Manual
(Version 8.0)

Thank you for purchasing the tracker. This manual shows how to operate the device smoothly and correctly. Make sure to read this manual carefully before using this product. Please note that specification and information are subject to changes without prior notice in this manual. Any change will be integrated in the latest release. The manufacturer assumes no responsibility for any errors or omissions in this document.

1. Summary

Working Based on existing GSM/GPRS network and GPS satellites, this product can locate and monitor any remote targets by SMS or internet.

Overview of the characteristics:

1. GPS position.

2. GSM 850/900/1800/1900MHZ.

3. With Shock sensor.

4. Power-Cut alarm.

5. Auto set APN.

6. Voltage 9-40V.

7. Oil-cut function.

2. Accessories：

Power line:

Relay:

Manual

Screws

Locking Bolts
(standard)

3. Specs

1）.**GSM：** 850/900/1800/1900MHZ

2）.**GPRS:** Class12, TCP/IP

3）.**Working Voltage：** 9-40V DC

4）.**Working current：** $\approx$22mA （12VDC）

5）.Working current：≈12mA（24VDC）

6）.GPS locating time：Cold start≈38s（Open sky）

Warm start≈32s

Hot start≈2s（Open sky）

7）.GPS Precision：10m（2D RM）

8）.Working temperature：-20℃～+70℃

9）.Working humidity：20%～80%RH

10）.Measurement：90（L）x 45（W）x 13.5（H）mm

4. My Device

5.Device status indicators

GPS LED Indicator	
Flashing (1s on, 1s off)	Searching GPS signal
Continuously bright	GPS fix
Continuously dark	No GPS fix or initializing

GSM LED Indicator	
Quick flashing	GSM initializing
Continuously bright	Connected to Server Sucessful
Continuously dark	No GSM signal

Power Status	
Flashing	Power on
Continuously bright	Not working properly
Continuously dark	Power off

6. Installation

6.1 Preparation before installation

1) Open the packing box to check whether the type of device is correct and whether the accessories are included.

2) This product is a high-tech electronic device, installation should be undertaken by a professional.

3) Please follow the following procedures to install your GT02D. During installation, there should be no power to the device.

6.2 Installing SIM card: each GT02D need to insert a GSM SIM card. The SIM

card used should be enabled for GPRS.

1)   Testing SIM card: to test SIM card, please install it into a normal

        GSM mobile and ensure it can send and receive SMS, and enables for

        GPRS.

2)   Installing SIM card:Remove the upper cover of device,insert SIM card
        as shown then replace cover,lock the Shell With 3 bolts
                                                                    .

6.2 Installation

The GPS tracker must be installed under professional personnel.
Note:
1) Please install the device in the hidden place as followings:
   Under Front windshield;
   In the front instrument panel;
   Under back windshield;
2) Avoid being placed with signal radiators like reverse sensor ;
3) The device has GSM antenna and GPS antenna inside. Please ensure the
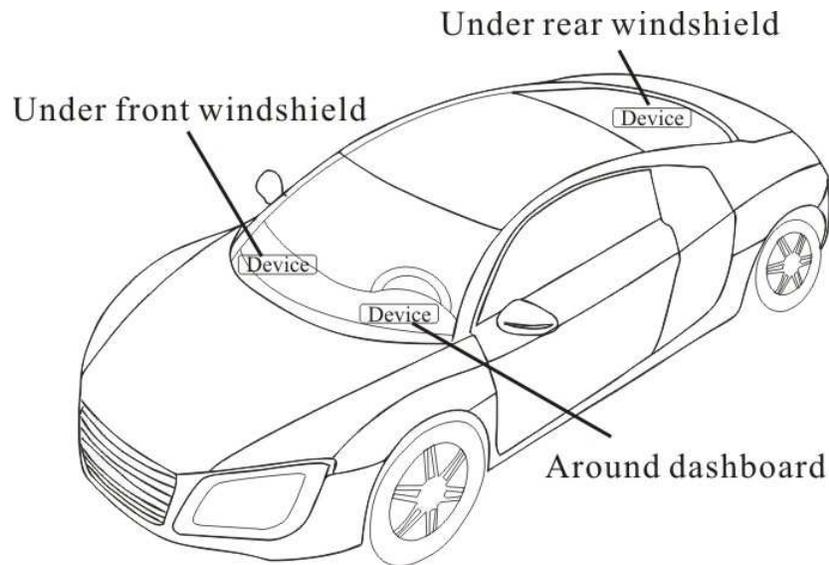   receiving side of the device is face up and without metal cover.

Note: The metal cover will lessen the receiving of GPS signals.6. The device connecting requirements.

6.3 Selecting installation place and fixing it.There are two kinds of installation: covert and non covert.

If you need the covert installation, please refer installation to an auto electrical contractor.

Note:

1)   To prevent theft of the GT02D,the device should be installed as

      covertly as possible.

2)   Avoid placing the GT02D close to higher power electrical devices, such

      as reversing radar, anti-theft device or other vehicle communication

      equipment.

3)   The GT02D should be fixed into position with cable ties or wide

      double-side tape.

   4)Your device has built-in GSM antenna and GPS antenna. During installation, please make sure the receiving side face is up, with no metal object above the device to interfere with GPS reception. The following places are suggested for installation:

Under rear windshield

Under front windshield

Device

Device

Device

Around dashboard

- Under the dash board below the front windshield;

- In the parcel shelf in the rear;

- In the front bumper(non-material face), please ensure the device cannot get wet;

- Under the wiper version (non-metal), please ensure the device cannot get wet;

Notice: If the windshield is pasted with metal thermal-protective coating, it may affect the performance of the device. In this case, please change the installation place after consulting the professional.

5)Non Covert Installation,

Firstly fix the device on the dash board below windshield.

- In the parcel shelf in the rear;

- In the front bumper(non-material face), please ensure the device cannot get wet;

- Under the wiper version (non-metal), please ensure the device cannot get wet;

Notice: If the windshield is pasted with metal thermal-protective coating, it may affect the performance of the device. In this case, please change the installation place after consulting the professional.

5)Non Covert Installation,

Firstly fix the device on the dash board below windshield.
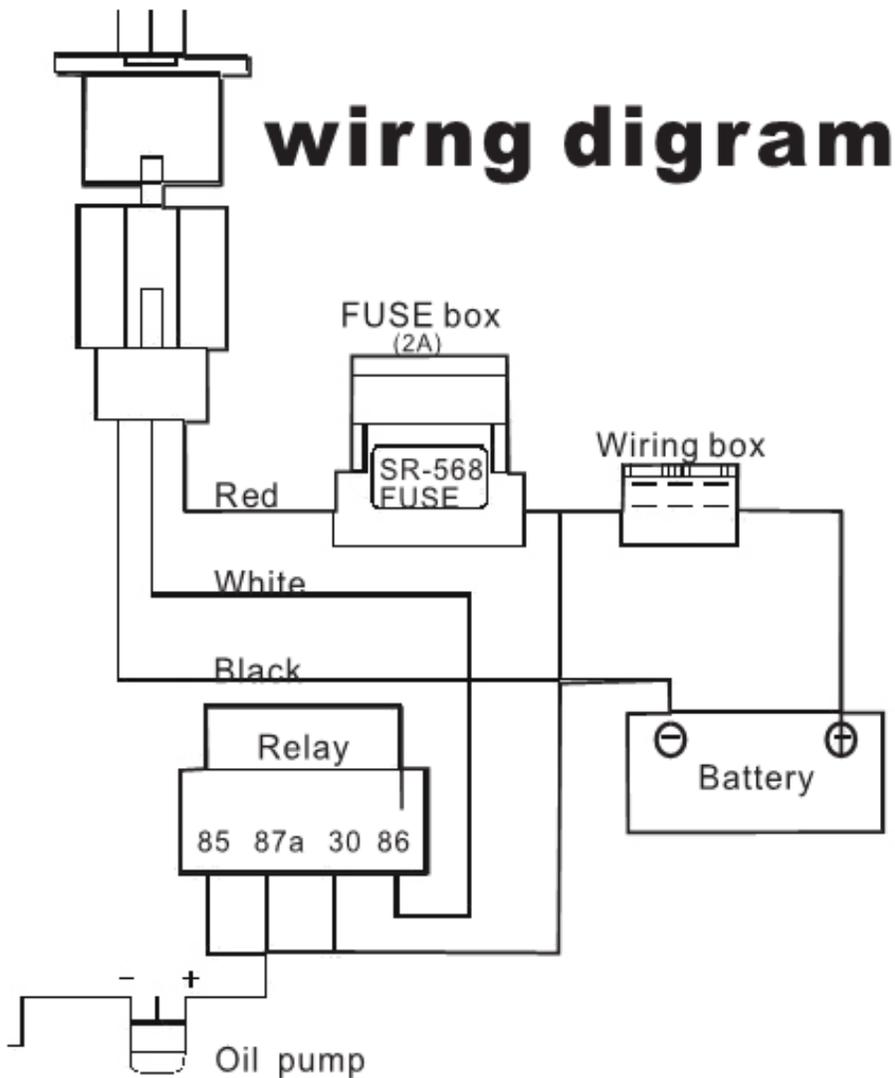
7. Device wiring requirements

7.1 The device power supply is DC 9-40V. The red line is positive pole while the black line is negative pole.

7.2 The negative pole of power supply connects with ground or the metals. Please do not connect with other ground lines.

7.3 When finishing the power supply wire connection, please make the plug

of power supply to the device.

wirng digram

FUSE box
(2A)

SR-568
FUSE

Red

Wiring box

White

Black

Relay

85 87a 30 86

Battery

− +

Oil pump

8. The Device Working

8.1 Power on: Connecting to the current, then switch on the device. Then the three LED indicators will light continuously. The device will upload the data to the online platform (the default interval of uploading data is 10seconds). When the car is in static state for a long time, the device will be in energy saving mode and it will be more smart and precise.

8.2 Power off: Pull off the power plug then power off the device.

9.User Settings

9.1 SMS Commands instruction

1)Center Number		
Text command	Parameter	Sample
CENTER Add	710#number# 711#number#	710#13500135000# 711#13800138000#
CENTER Del	D01# D02#	D01# D02#
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: Add admin account 1 OK!

2) View Administrator Number

Text command	Parameter	Sample
View	901#	901#
Command Description	This directive is used to view Device Manager number.	
Command Feedback	Successful Setting: Admin1: Admin2:	

3) Authorized Number Set

Text command	Parameter	Sample

Authorized Add	101# number #	1：101#13800138000#
	102# number #	2：102#12345678912#
	103# number #	3：103#12345678912#
Authorized Del	D11#	D11#
	D12#	D12#
	D13#	D13#
Command Description	1) Authorization number for SMS control oil. 2) only three numbers to set the authorization number 3) change the authorization number needs to delete the previous number	
Command Feedback	Successful Setting：Add Authorization account 1 OK!	

4) View Authorized Number		
Text command	Parameter	Sample
View authorized	C10#	C10#
Command Description	This directive is used to view the equipment authorization number	
Command Feedback	Successful Setting: Authorization 1: Authorization 2: Authorization 3:	

5)APN Setting		
Text command	Parameter	Sample
APN Setting	APN#username#pass word]	1：APN#intenet#123#123# 2：APN#internet#

Command Description	APN differs according to the local telecom operators. For example: APN request password, please refer to Sample 1, and Sample 2 for no password.
Command Feedback	Successful Setting: SET APN OK!

6) Set / View Server		
Text command	Parameter	Sample
SERVER Parameter	803#SERVER # port#	803#222.217.240.243#8011#
View SERVER	CIP#	1) CIP#
Command Description	Change the IP and port when move to a new server port: 10~65535 1 is domain and 0 is IP;	
Command Feedback	Successful Setting: set IP OK!	

7)Moving Time Interval

Text command	Parameter	Sample
TIMEER Parameter setting	730#uploading interval#	730#20#
Command Description	Time scope: 0, 10~60 seconds; 0,no data uploading; 10~60,means time interval; the default value is 15 seconds!	
Command Feedback	Successful Setting: SET TIMER OK!	

8)Static Time Interval

Text command	Parameter	Sample
STATIC	SUP# time interval#	SUP#5#
Command	Timescope: 1~60 seconds; The device has	

Description	3D transmission and the default time interval are 5 minutes.
Command Feedback	Successful Setting：SET STATIC TIME OK!

9) Cancel the continuous upload		
Text command	Parameter	Sample
NUP	NUP#	NUP#
Command Description	This command is used to cancel sending data to the platform If need again to restore the upload , you need to send TIMEER Parameter setting.	
Command Feedback	SET OK!	

10)Power-Cut

Text command	Parameter	Sample
RELAYParameter1	222#	222#　cut off oil and power
RELAYParameter2	333#	333#　recover oil and power
Command Description	1)RELAY control the start and closeness of the relay 2) Only the center number can operate. 3）the device only cut off the oil circuit on the condition of the driving speed below 20KM/H or in static state. 4)When send the command, the device will reply "please waiting "When the vehicle speed is over 20KM/H, the device will cut off the oil or the power when the speed below 20KM/H.	
Command Feedback	Successful Setting: Fuel cut has already been completed OK!	

11)GMT		
Text command	Parameter	Sample

GMT	801#location, time#	801#E8#
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 time zone ok!	

12)Vibration Sensitivity

Text command	Parameter	Sample
VIBRATION Parameter	123#2#, alarming way#	1) 123#2#3#
Set into vibration alarm time	V123#2#	1) V123#2# 2) V123#1#
Enable vibration alarm	911#	911#

Disable vibration alarm	910#	910#
Command Description	the sensitivity value of the vibration is from 1 to 5，1is 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.	
Command Feedback	set vibration alarm level，OK!	

13) Speeding		
Text command	Parameter	Sample
SPEEDING Parameter	SSA#120# alarming way#	1)SPEEDING, 120, 3# 2)SPEEDING, 120#
Command Description	The speed scope is form 60-220, if the speed is no this cope, the alarm is off. Alarming : 1, calling 2, texting, 3 calling and texting.	

	Must set the center number and receiving number.
Command Feedback	Successful Setting: set speeding alarm, OK!

14)Reset		
Text command	Parameter	Sample
RESET	930#	930#
Command Description	Reset the device	
Command Feedback	Successful Setting: Reset system, ok!	

15)Factory		
Text command	Parameter	Sample
Parameter	940#	940#
Command	Restore the factory setting	

Description	Only center number can initial this function Factory setting will recover to the original setting
Command Feedback	Successful Setting: FACTORY OK!

16) Language Setting		
Text command	Parameter	Sample
LANG Parameter	LANG1# LANG0#	LANG1# 1:CHINESE, LANG0#: 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!	

17) Position

Text command	Parameter	Sample
WHERE	988#	988#
Command Description	Check the longitude and altitude and other information of the device	
Command Feedback	Reply with longitude and altitude, speed and IMEL.	

18)Google Link		
Text command	Parameter	Sample
WHERE	666#	666#
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)Version

Text command	Parameter	Sample
VERSION	V00#	V00#
Command Description	The command is to check the software version	
Command Feedback	VERSION:Xxxx BUILD:2012-07-05 10:12	

20)Param Check

Text command	Parameter	Sample
PARAM	886#	886#
Command Description	The command is to check the settings and the default parameter.	
Command Feedback	IMEI:351190012535936 APN : cmnet IP:IP and port TIMER: moving uploading interval	

	STATIC: static uploading interval CENTER: center number LANG: language(CN/EN) GMT: time zone (E/W8)

21)Status Check		
Text command	Parameter	Sample
STATUS	902#	902#
Command Description	The command is designed for checking the device's working status.	
Command Feedback	External power:ON/OFF GSM Signal:HIGH/MIDDLE/LOW GPS:FIXED/UNFIXED RELAYER:DISABLE/ENABLE Vibrate Warning:ON/OFF Pause:ON/OFF	

10. Trouble shooting

10.1 The device is not online or offline on the web platform.

10.1.1 First, please check the three LED working state. If possible. You can call the device's number to check.

● If not connected, the device is out of signal. If the GSM signals cannot reach your location, please drive to the open sky.

● If reminding the device SIM card is out of deposit, please make deposit by the telecom operator.

● If you can connect to the device when calling, the SIM card has deposited and please check with your operator for GPRS function. You also can check by searching the internet on your mobile phone.

● If reminding the device is power off, please turn back the device and proceed as followings:
   a) Check if the red LED is in constant glow. If the LED is dark, please check the power connecting. If fuse is broken, please return the device to the seller.

   b) If the blue GSM LED is not in constant glow, please check the

      installation of SIM card.

10.1.2 Please check the offline area in order to judge if the network

   problem of operators.

10.2 When GPS cannot receive the signals, please drive in the open sky

   and ensure there is no metal thins on the device.

10.3 When the device cannot receive the GSM signal, please check the

SIM card installation. If the GSM signals cannot reach your location (such as the basement), please drive to the open sky.

10.4 The red LED is not glow when power on. Check the fuse of the power

line. If the fuse is fused, please change the fuse with the seller.