

GPS Tracking Device

Model NO.: M558TA

User Manual



Version: Rope-E21050101

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Notes:

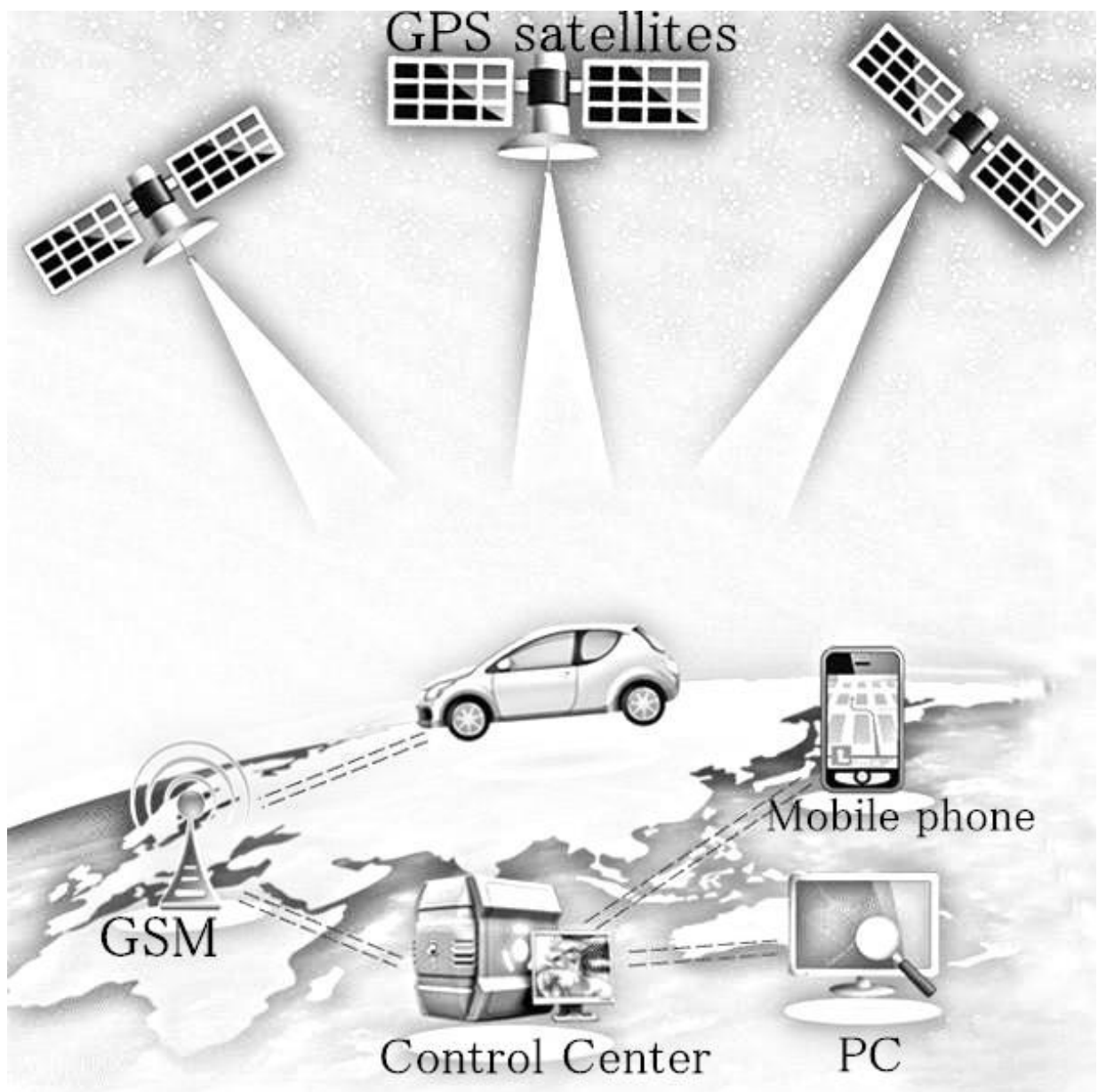
- Please mount the device steadily on the flat place before using;
- Please make sure the voltage value is right before connecting with battery, and placing the wires to where shouldn't be trodden;
- Please power off when plugging or taking out of any module or connector;
- Please keep the device dry and don't let any liquid fall into the device in case any damage caused in the device or circuit;

If any problem caused as follows, please turn to professional technician:

- When power wire, keyboard, or socket are damaged;
- When liquid infiltrating into the device;
- When the device work unusually or cannot resume to normal even operated according to the instruction;
- When the device cannot work as usual after falling, throwing or breaking;
- When there is obvious damage in the device.

1. Product Introduction

GPS Tracking device mainly consists of two parts such as GPS module and GSM module. GPS module is for getting location data from satellite, and GSM module is for transferring data to server so that people can check the information via PC or mobile phone. Our GPS Tracking device, with the best quality, stable performance and versatile functions, can be applied to various kind of fleet management like construction trucks, rental cars, logistics vehicles and public transportation, anti-theft system and security purpose.



2. Characteristics

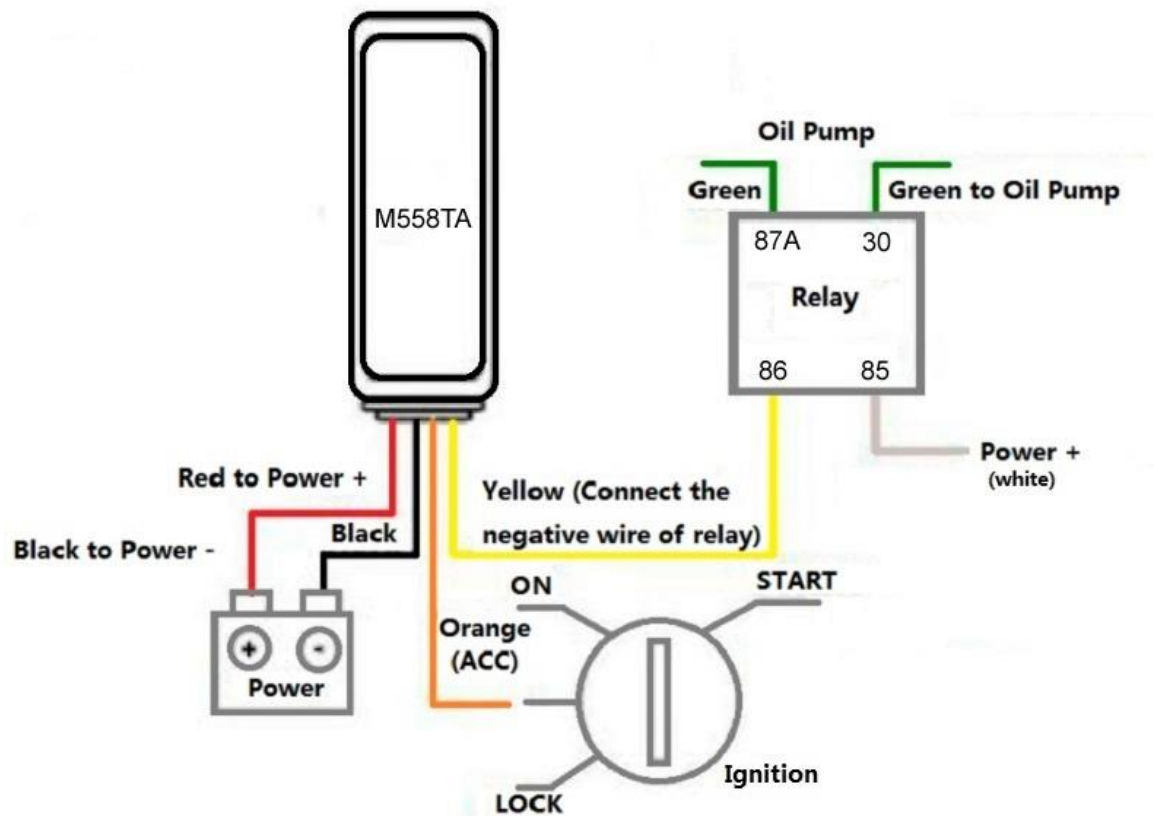
- 1) Real-time tracking;
- 2) ACC on/off status;
- 3) External power disconnected alarm;
- 4) Over speed alarm;
- 5) Cut off engine remotely;
- 6) support harsh brake/accelerate/turn alarm;
- 7) support power saving mode(turn off GPS);
- 8) Geofence alarm;
- 9) Mileage Counting.
- 10) Resend data for LTE/GSM signal blind area(support to store maximum 600 location points);

2.1. Specifications

Items	Parameters
Material	Plastic
Working Voltage	DC 9V - 90V
Working Current	35mA @12V(static current 8mA)
Standby Battery	0.5 hours (3.7V/55mAH lithium battery)
Positioning accuracy	<10 Meters (This data is for reference only, and the positioning accuracy is related to factors such as the terrain and time of the vehicle)
Size	L84mm*W38mm*H12mm
Positioning way	GPS, AGPS
Working Temperature	-25℃+75℃
Storage Temperature	-40℃+85℃
GPS chip	UIS8910DM
Communication Network	LTE-FDD: B1/B2/B3/B4 B5/B7/B8/B20/B28 LTE-TDD: B38/B40/B41 GSM: B2/B3/B5/B8
Net Weight	40g
Communication protocol	TCP
Operating Humidity	5%—95%

2.2 Device wiring diagram

Red wire	Connect with positive of power
Black wire	Connect with negative of power & black wire of relay
Orange wire	Connect with ACC detection
Yellow wire	Connect with negative wire of relay



2.3 LED indicator

Indicator	GSM (Red)	Flash fast with 100ms interval: GSM is in initialization
		Flash slowly with 2s interval: GSM signals is normal
		Bright always: the device is online
		Not Light: Not yet received the GSM signal/Not Insert Sim Card, or tracker is on sleeping
	GPS (Yellow)	Flash fast with 100ms interval: Searching GPS signal
		Bright always: GPS has been positioning
		Not Light: GPS is in sleep mode/Not working

3. Method of installation

3.1. Preparation before installation

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

3.1.2 Choose SIM card: each device needs to insert a 4G SIM card.

3.1.3 Installing SIM card into the tracker.

Note:

Please power off M558TA before installing sim card, and please open GRPS data and charge money for the sim card. Please ensure the SIM card is able to send and receive SMS.

3.2 Installation

NOTE:

3.2.1 To prevent theft of the device, it should be installed as covertly as possible. Covertly installation is suggested.

3.2.2 Avoid placing the device close to higher power electrical devices, such as reversing radar, anti-theft device or other vehicle communication equipment;

3.2.3 The device should be fixed into position with cable ties or wide double-side tape.

3.2.4 The 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:

- shelter in the decorated board below the front windshield;
- shelter around the front instrument panel (non-metallic material face);
- in the decorated board below back windshield;

4. Web based tracking online activation

4.1 Open website **www.overseetracking.com** and login with the user & password that provided by Rope.

4.2 Click **Information Management**

4.3 Click **Vehicle Tracker List** and you will see all your vehicles are listed there. Please note, to add more devices, please contact your sales.

Please choose one device and click **Activate**.

Plate Number/Name	Tracker Model	Tracker Information	Installed Accessories	My Service Expiring Date	Sub-user's Service Expiring Date	Vehicle Owner	Tracker Status	Operation
	DJ808	ID: 13000000157 IMEI: 094027849470 Phone number:					Unactivated	
 M-23 UAQ 246K	DJ808	ID: 13000000158 IMEI: 011653707339 Phone number: +25619666820185	 RL12: 12V Relay  Mic-Rope: Mic-phone		2019-07-24	Stephen Kibuuka Tel:	Activated 2018-09-08 06:03:18	  this is edit
 unknown	DJ808	ID: 13000000159 IMEI: 011752301171 Phone number: +25611752301171	 RL12: 12V Relay  Mic-Rope: Mic-phone				Activated	 
 H 10	DJ808	ID: 13000000166 IMEI: 011752301172 Phone number: +25611752301172	 RL12: 12V Relay  Mic-Rope: Mic-phone		2019-07-24		Activated 2018-09-08 06:04:00	 

4.4 Click **Activate**, please fill in the blanks marked with red *. You also can fill in other blanks to complete the device information.



Use Default Icon

Belongs to Group

None Group

Plate Number/Name*

Required

Country*

Please select

Vehicle Type*

Please select

Login Password via Plate Number/Name

123456

Purchasing Date

Vehicle Brand

Starting Mileage

0

Manufacturer Official Fuel Consumption(L/100Km)

0

Owner Name

Mobile of Owner

> Next Step

X Cancel

4.5 Click **Next Step** and fill in the requested blanks.

Installed Tracker Information

Please complete the blanks with "*" behind.

Tracker Model*

M588T(Standard vehi

IMEI of Tracker*

Inserted SIM Card's Phone Number*

+93

Phone number

Time Zone*

Please select time zo

Installation Date

Please select installed accessories:



Digit Input for SOS

No accessory co



Digit Output for Engine

No accessory co



Mic-phone Portal

No accessory co

4.6 Click **Next Step** to fill in sim card APN information. Please select the telecom name, if the telecom is not listed there, please click **Enter Telecom Name** to fill in the sim card telecom name.

SIM Card Operator Information

System can not get the APN information, Please enter the SIM card APN information, so the system can generate the correct configuration SMS for you. Please complete the blanks with "" behind. * (If the APN contains username and password, please enter them too)

Telecom Name* [Enter Telecom Name](#)

APN*

APN Username

APN Password

[Back](#) [Next Step](#)

4.7 Click **Next Step**, OVERSEE gives the configuration SMS to you. Please copy it and send it to the gps device, after you receive reply from the gps device, it should be online.

Activate Tracker ×

Tracker Activation

The information has been saved successfully, Please send these SMS commands below one by one to the tracker, if configure successfully, the tracker will show online in tracking map.

SERVER,1,at2.trackurcar.com,9008,0#

APN,safaricom,saf,data#

[Finish](#)

4.8 Click **Finish--Tracking Map** to see if the gps device is online or not.

5. SMS Command List

Function	SMS Command Format and Description (Please noted that all SMS commands are case sensitive.)
Set APN and server IP/domain name and port	Set tracker with IP format: <SPBSJ*P:BSJGPS*T:047.090.254.117,20016*A:APN_Name,Apn_User,Apn_Password> Set tracker with domain name format: <SPBSJ*P:BSJGPS*Q:Domain_Name:Port*A:APN_Name,Apn_User,Apn_Password>
Engine control	Disable engine: stopoil Enable engine: supplyoil Condition for disable engine command execution: ① tracker is located via GPS. ② vehicle speed is <20km/h; ② the tracker detected motion.

Set location/heart beat data reporting interval time	Format: <SPBSJ*P:BSJGPS*C:20*O:20*H:120> C:20 means the tracker will upload location data in every 20 seconds when there is motion detected, the default interval time is 30 seconds, the acceptable interval range is 3s~ 10800s. O:20 means the tracker will upload location data in every 20 seconds when there is no motion detected, the default interval time is 300 seconds, the acceptable interval range is 3s~ 10800s. H:120 means the tracker will upload heart beat data in every 120s, the default interval time for heart beat data uploading is 300s, , the acceptable interval range is 90s~ 300s.
Enable/Disable power saving mode	<SPBSJ*P:BSJGPS*1H:0/1> 1H:0 means disable, 1H:1 means enable. The power saving mode is enabled by default, once there is no motion detected in 5 minutes, the tracker will only upload the heartbeat data and turn off the GPS for power saving, if there is motion detected, the tracker will wake up automatically and start to report location.
Disable/enable harsh braking / accelerating / turn alarm	<SPBSJ*P:BSJGPS*8X:1*8Y:1*8Z:1> These alarm are disabled by default, 8X controls harsh accelerating alarm, 8Y controls harsh braking alarm, 8Z controls harsh turn alarm, 0 means disable, 1 means enable. 1) harsh acceleration/braking alarm detection logic: The current speed (unit: m/s) is subtracted from the speed value of the previous second to obtain a speed change value of A (unit: m/s²), a sharp acceleration alarm threshold of 2.7m/s², and a sharp brake alarm threshold of -4.0m/s². That is, if A>2.7m/s², the sharp acceleration alarm will be triggered, and if A<-4.0m/s², the sharp brake alarm will be triggered; 2) harsh turn alarm detection logic: The current speed (unit: m/s) is V, and the current angular speed (unit: radians/second, radians=angle * 3.14/180) is W. The following situations will trigger a sharp turn alarm: $V \geq 80 \ \& \ W \geq 10 \ \& \ w \cdot v > 5.0$ $V \geq 20 \ \& \ W \geq 15 \ \& \ w \cdot v > 5.0$
Check tracker parameters	<CKPARA> Tracker reply content example: <BSJ*N:14162718929*T: 47.90.254.117,20016*D:0.0.0.0,0*CGREG:1*CSQ:31*GPS:(A,29,34)*A:CMN ET*C:30*O:120*L:30*3T:120*CS:0*3U:0*3Z:0*H:300*2A:1*GP:OK*60:0*5Y:9. 0*9E:08:00*1H:1*68:1*CP:1800,02,05,090*3D:000000*8X:0*8Y:0*8Z:0*I:0000 000*B:2*ACC:0*JX:0>