H02

GPS ANTI-THEFT ALERT SYSTEM
(GPS+GSM+SMS/GPRS)

Fast Installation Instruction & User Manual

In order to install and operate the GPS tracker in right method and properly, please read this Fast Installation Instruction & User Manual before installation, Thank you.

Catalog

A. H02 Models

H02 Normal Version – Real-time Tracking, Vibration Alarms;
H02 Upgrade Version – Real-time Tracking, Vibration Alarms, Voice Monitoring;
H02 Enhanced Version – Real-time Tracking, Vibration Alarms, Cut-off Engine or Oil pump;
H02 Multi-function Version – Real-time Tracking, Vibration Alarms, Voice Monitoring, Cut-off Engine or Oil pump, SOS Emergency Alarms, External Power Cut Alarm;

Model	Function
H02	**Real-Time Tracking + Vibration Sensor**
H02-U	**Real-Time Tracking + Vibration Sensor + Microphone**
H02-E	**Real-Time Tracking + Vibration Sensor + Relay**
H02-M	**Real-Time Tracking + Vibration Sensor + Microphone + Relay+ SOS Button + Battery**

B. Package & Accessories

2/4 Pin Power Cord *1; User Manual *1;
Microphone*1 (Optional); Relay *1 (Optional); SOS Button *1 (Optional);
Battery*1 (Optional);

C. Functions

- GSM Quad-band frequency (Global use);
- Wide input voltage range: DC 9-24V;
- Build-in vibration sensor, Smart Anti-theft ;
- ACC ignition detection, vehicle status notification;
- External SOS button, used in immergence case use;
- External Relay, used to cut off engine power or oil remotely;
- External Microphone, used in voice monitoring case (Optional);
- Build-in back-up battery, support illegal main power cut-off alarms (Optional);
- Support OBD easy installation (Optional);
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D. Technical Parameter

- GMS frequency: 900/1800MHz or 850/1900MHz;

- GPRS: Class12,TCP/IP;
- Voltage range: DC 9-24V;
- Standby Current: ≈0.2mA;
- Power Consumption: 0.3w/h;
- GPS initialization: Cold boot 38s (Open sky)

  Warm boot 2s (Open sky)
- GPS Accuracy: 10m(2D RM);

- Working Temperature: -2℃ - +70℃;

- Working Humidity: 20%-80%RH;
- Dimension: 90.0(L)*45.0(W)*6.0(H)mm;
- Net weight: 45g;

E. LED Indication

1. Red LED (Power status indication)

LED Status	Indication
Quick flashing, On 0.1s, off 0.1s	Low power warming
Constantly on	Charging
Slow flashing, On 0.1s, off 2s	Battery Charged/Working Normal
Constantly off	Voltage too low/ Shut down

2. Yellow LED (GSM status indication)

LED Status	Indication
Slow flashing, On 15s	GSM initialization
Quick flashing, On 0.1s,off 2s	GSM signal receive normal
Constantly on	GSM calls/GPRS start
Constantly off	No GSM signal received

3. Blue LED (GPS status indication)

LED Status	Indication
Flashing, On 0.1s, off 0.1s	GPS signal normal
Constantly on	GPS signal searching
Constantly off	GPS shut down

F. Device Appearance

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H02-U

H02-E

H02-M

G. Installation Instructions

1. Before Installation

· Open the package, please look over whether the part number is correct and whether accessories complete, if not, please contact your distributor for further assistance;

· Choose correct SIM card, a SIM card will be needed to insert into the terminal, please consult distributors options for further use;

· Install SIM card, SIM card slot On the terminal back, take out the SIM card slot cover, insert the SIM card, then put the cover back to terminal;

Please Note:
Power off before SIM card operations;
Please make sure that the SIM card has enough credit;
Special GPRS data SIM Card suggested (GSM network only);

2. Installation

· The terminal is a high-tech GPS positioning device, choose distributor suggested professional installation company, mechanic to install and set-up;

· Please follow the terminal installation order, DO NOT REVERSE, during the installation, DO NOT POWER UP THE TERMINAL;
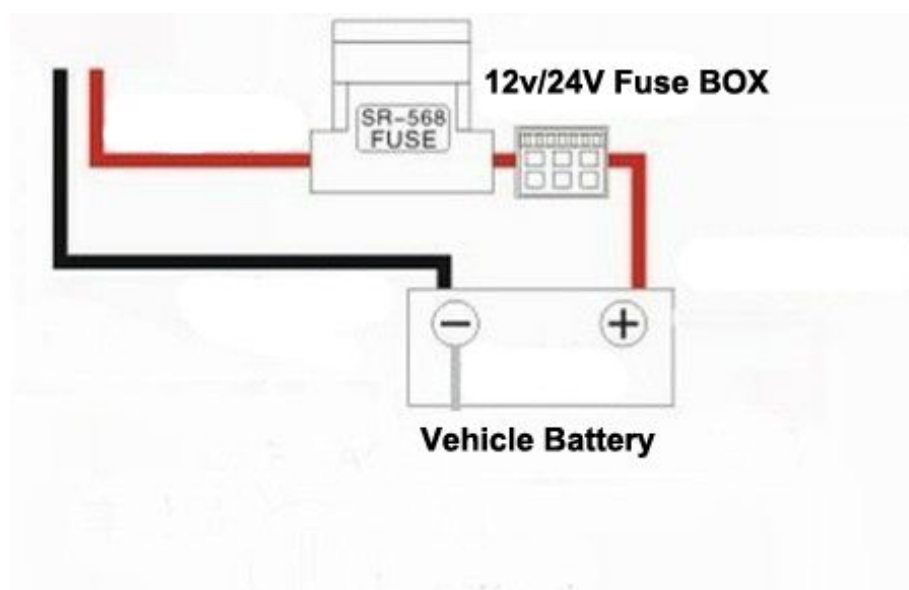
· Suggest install in hidden places;

Please Note:

· In order to keep it from theft's damage, hidden place installation suggested;

· Please avoid to install along with or near transmitter, ie: Reversing radar, other anti-theft vehicle terminals;

· Use ribbons to fasten the terminal, or strong double-faced adhesive tape;

· The GSM and GPS antennas' signal receiving side shall face the sky, and no shield materials to block the signal, ie: metal; Also it shall avoid to interfere signals, 2 antennas separate installation suggested;

· Installation place suggested:

  a) Within front decorated board under windshield;
  b) Under Dashboard (avoid metal cover);
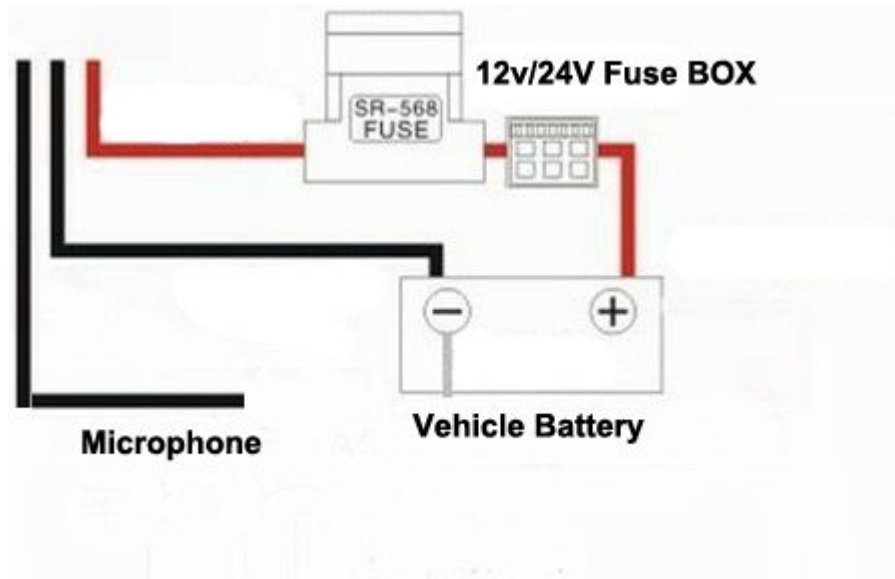 c) Within back decorated board under windshield;

Please Note:

Any metal heat shield layer or heating layer will reduce the signal of GPS, it may cause GPS function failure, please adjust the installation place;
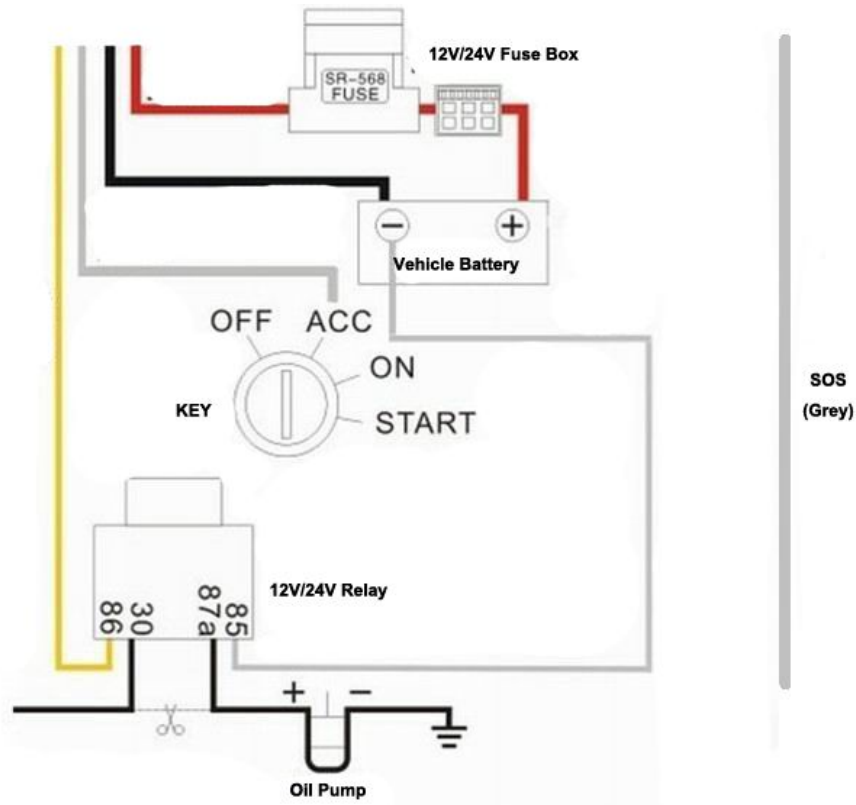
H. **Terminal wiring Instructions**

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H02-U

12v/24V Fuse BOX

SR-568 FUSE

Microphone

Vehicle Battery

H02-E

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1. Power wire, ACC detection wire, Engine power or oil control relay wire (7pin)
· The terminal standard power voltage is 9V-24VDC, please use the original power wire supplied by the original factory, red wire is power source positive end, black wire is the negative end; The black wire be connected with spate ground wire, DO NOT CONNECT WITH OTHER GROUND WIRES;

· Yellow AAC detection wire, the ACC wire shall connected with the ACC switch, the terminal will decide vehicle status by ACC status, engine on or engine off, also determines the terminal data upload time interval, engine on status: 15seconds, engine off status: 5 minutes;

· Engine control relay wiring
  Oil pump relay connections: ignition coil with small white wire (85) and small yellow wire (86), small white wire (85) connects with the vehicle power source negative end, small yellow wire (86) connect with the terminal relay control wire; The controlled vehicle oil pump, cut the oil pump positive wire, the oil pump positive end shall connect with the thick green wire (87a) which is the normally closed end, the another end connect with the relay public end the thick green wire (30);

· SOS wire (2 pin)
  Connect with the external SOS switch button, used in emergency case for help;

· Loudspeaker wire (1 pin)

Connect with the external vehicle speaker, with a microphone, it can make 2 ways phone calls, or send voice alarms when theft behavior was detected;

· MIC wire (1 pin)

Connect with external microphone, used in voice monitoring case or phone calls;

2. After finished all wires connection, please connect with the power supply;

3. Hidden installation, please choose original main power wire, a fuse block (2A protective tube) on the red wire end will protect the terminal from short circuit;

I. **Terminal Operations**

1. **Start-up/Shut-down**

· Start-up: insert the SIM card, turn on back-up power supply, the terminal will start up;

· Shut-down: disconnect power plug, take out the SIM card, the terminal will shut down;

2. **Terminal parameters settings**

All beginning letters in each parameters' commands shall use upper-case letters, all punctuations shall be English punctuation, only part of commands will reply.

By sending enquiry commands to the terminal, corresponding contents will be replied.

Commands shall be sent by the bound cellphone number.

· **Cellphone SIM Card Number Binding**

After the terminal start up normally, please bind your cellphone number first, alarms will send to this bound number.

Send SMS: ***ZC#terminal password# Cellphone SIM card number#Terminal SIM card number#**

Initial password is 000000, command start with *

e.g.: *ZC#000000#15888185569#12345678922#

· **Password Modification**

Send SMS: ***MP#Previous terminal password#new terminal password#** (6 numbers)

e.g.: *MP#000000#987654#

Initial password is 000000, new password is 987654

· **Get Terminal Position by SMS**

Send SMS: **DW** to terminal, it will reply the terminal current geography location

e.g.: south east 30 meters, ABC company, Meilong Rd, Shenzhen, Guangdong Province,China.

- **Google Address Link**

  Send SMS: **GOOGLE** to terminal, it will reply the terminal current geography location link

  http://maps.google.com/maps/?f=q&hl=en&&q=31.237395,121.390373333333;S=0;D=2012-5-23 12:00:00;D=0

  Please note: the default time is Greenwich time, actual time needs to add your time zone number

  e.g.: enquiry time is 12:00:00, Chinese time is 20:00:00 (+ 8 hours)

- **Vibration Alarm**

  Send SMS: **SF** to turn on the vibration alarm

  Send SMS: **CF** to turn off the vibration alarm

  No spaces.

- **Engine Control (Optional)**

  When the vehicle was stolen, the administrator can send Cut-off Engine command via the live tracking monitoring system, Under the conditions of safe driving, the command will trigger the relay to cut off power of oil pump to stop the engine, and it can't be re-start the engine without restore engine command.

  To secure the safety of vehicle, the terminal shall in valid GPS signal status, also speed under 20km/h or still status to cut off engine.

  After the theft alarm dismissed, send restore engine command via live tracking monitoring system will trigger relay to restore the power of oil pump, the vehicle will able to start up.

  Cut off oil pump power

  Send SMS: **DYpassword** to terminal, and reply: **Config ok**

  Restore Oil pump power

  Send SMS: **TYpassword** to terminal, and reply: **Config ok**

  Intial password is 000000

  e.g.: DY000000,TY000000

- **SOS Alarm(Optional)**

  Any emergency case happens, press the SOS button for 3 seconds, trigger the SOS emergency help alarm, the terminal will call the bound cellphone number repeatedly, in nobody answers case, it will ring max 3 times, at meantime, the terminal will upload SOS alarm information to live tracking monitoring system.

- **Main Power Cut-Off Alarm(Optional)**

  After the terminal main power been cut, it will automatically trigger power cut off

alarm, it will send a main power cut off alarm SMS to bound cellphone, and meanwhile upload the alarm information to live tracking monitoring system.

SMS e.g.: **Alarm main power failure, Please pay attention!**

·   **Voice Monitoring(Optional)**

Send SMS: **JT** to the terminal

The terminal will call back and the administrator will able to monitor the voices.

J. Live Tracking Monitoring Platform

Web Address:

http://www.gps588.com/

Language Available:

English, 中文, Español, Français, Português, Deutsch, العربية, Vietnamese, ภาษาไทย, Русски.

If you already have a login account and password information, you can login our platform directly, or please contact your distributor and ask them to open you an account and provide you the password.

Input the address link in your computer browser, input the account and password, then login to your service platform.

About the use method of platform, please ask your distributor for *Service Platform User Manual*.

K. Trouble Shooting

1. Terminal installed at the first time, and it can't connect to service platform, platform always shows offline.
3. Is main power correct? Do not connect it with the vehicle internal control wires;
4. SIM card installation right, please check the installation instruction;
5. Is ACC wire connected? After connected with ACC wire, insert the key and open ACC;
6. Check the LED indicators, When the terminal work normally, Red LED (GSM) flash slowly, Green LED (GPS) flash slowly;
7. Is GPS module receives GPS signal? If not, please take it to open sky and wait the first positioning is done;
2. Terminal Shows offline

First check the 2 LED indicators and confirm if it is normal, if it is inconvenient to check the LEDs, then check the SIM card status first, steps as follow:

·   Call the terminal SIM card number, and see if you can hear the get through sound;

- Is vehicle parked in the basement or other places without GSM signal;
- Monitoring the offline area, is signal one offline or all of them, then we can decide whether it is a telecom operator problem;
- SIM card credit run out?
- GPRS service opened?

3. If the GPS function has been activated, and didn't position the location for a long time, then we shall check the following status:

- When mechanic install the terminal, the GPS antenna signal receive side shall up to sky;
- Terminal installation place shall have no metal or other material shield which absorbs electromagnetic wave, also please pay attention that the up-area of terminal shall not stick any rupture film or heat shield film, cause these films contains a very high level of metal additive, it will absorb electromagnetic wave, in this case, the GPS signal will reduced by a large degree which causes lower the position accuracy, in some seriousness, it might cause the positioning function fail;

4. If the terminal is in the GPS signal weak area (High buildings can block GPS signal), please drive the vehicle to open sky area to position the location, first positioning usually take 1-2 minutes;

5. When GSM signal receive abnormally, please check whether the SIM card in terminal SIM card slot installed correctly, or whether the parking pot was covered with GMS signal, some place like basement usually have no or weak GSM signal, please drive the vehicle to places covered with GSM signal;

6. When the bound cellphone receives the main power cut-off alarm, please confirm if it is a illegal wire cut, or check the fuse box on power wire please, if the fuse burn out, contact your distributor for the same part number fuse please, after checking terminal problems, re-power the terminal to work status;

GPS VEHICLE TRACKING TERMINAL WARRANTY CARD

Please Note:

- Any upgrade of this products later on , notifications will only be sent to distributors;
- Any changes on appearance or colour, pictures are only for information, take practicality as standard;
- The warranty card only suits the following IMEI terminal;
- Please keep the warranty card safe, also show the warranty card and original purchase receipt before repair services;
- Specific warranty range as follow;

This warranty card is a basic access to repair service, please fill out the table carefully and keep it safe.

User Name		Contact phone No.	
Contact Adress			
Part Number		IMEI Number	
Purchase Date		Receipt Number	
Distributor Name			
Distributor Address			
Distributor Phone			

1. From Purchase date, 1 year repair service for products crash due to products reason .
2. Any of following situations are not included in warranty range, but provide paid repair services.
- Warranty period expired;
- Damages caused by unauthorized tear down or repair;
- Inundate, damage, PCB burnt due to improper act;
- Terminal out cover, screen, antennas damages due to use;
- Terminal inside IMEI's been pluck away or unable to read;
- Warranty card any content is not in accordance with the terminal, or warranty card has been modified by unauthorized;
- Damages caused by force majeure;