USER'S MANUAL

Model: FMG031

GPS/GSM Car Alarm System With Engine Start

CONTENT OF MANUAL

INTRODUCTION

Thank you for choosing FMG031 car alarm system. This product is an intelligent car alarm system equipped with GSM module and GPS module. It realizes truly protection and control of the car. Except the basic car alarm features, it has extra unique features including auto alarm response to user's mobile phone in emergency, mobile phone remote anti-hijacking, once/timer engine start for cooling the car in advance in summer/ heating the engine in advance in winter, push start button in stead of car key, SOS to mobile phone, GPS tracking current location and voice monitor etc. This product is controlled by transmitter. At the same time, putting an available phone SIM card inside the main unit, the user also can use mobile/fixed phone to control the product by sending SMS or making the PHONE CALL.

For the car alarm system to perform its security and service functions most efficiently, we recommend that you read this manual carefully firstly and trust with professionals to install the system in your car. We hope that the system will live up to your expectations, make you confident about the safety of your car and essentially increase its comfort due to various service functions. Please install and operate as following instructions.

COMPONENTS' LIST

1 pcs Main Unit of FMG031

1 pcs Siren with 6 tones

1 pcs GSM Antenna for receiving signal from GSM network\

1 pcs GPS Antenna for receiving signal to track the current location

1 pcs Extra Antenna for transferring signal to the transmitter

2 pcs Transmitters

3 pcs Wire Harnesses

1 pcs Microphone for voice monitor (optional)

1 pcs Start Button (optional)

1 pcs SOS button

1pcs Back Up Battery for keeping the main unit send alarm when wires are cut

1 pcs Shock Sensor

1 pcs Relay

1 pcs GPS Module Number Paster

SPECIFICATION OF FMG031

ITEM	DISCRIPTION	ITEM	DISCRIPTION
Network	GSM/GPS	GSM Antenna	High sensitivity -106.1 ~ -107.3TIS
GPS Antenna	High sensitivity GPS receiver -169dBm	GSM Frequency	850/900/1800/1900 MHz
Work Voltage	DC 12V	Transmitter Frequency	433.92MHz
Static Current	20mA	Back Up Battery	Lithium Cell 3.7V 650mA
Work Temperature	-30℃ ~ +80℃	Main Unit Size	136×88×32 mm
Battery Work Temperature	-10℃ ~ +50℃	Main Unit Weight	250g

New Optional Functions

Optional Ⅰ：Bluetooth PKE

What is the Bluetooth PKE?

Any of our car alarm system is able to connect with the blue tooth control module. A special APP is needed to be installed to the user's mobile phone, and then he can control his car directly by his mobile phone via Bluetooth. This APP use to instead of the remote controller, and the control range will reach to 10m.

User can set a control range from mobile phone to his car, when the user get close to his car in this range, the car door will be unlocked automatically; if the user goes out of this range, the car door will be locked automatically.

What is the special App?

The special App is designed for controlling the car alarm via Bluetooth, both of iPhone and Android system smart phones are able to install our special App. [Note: please ensure the iOS system is over iOS 5.1(iPhone 4S), Android system is over 3.0 version.]. After the user installed this App, then he can control the alarm system easily and no need to take the remotes all the way. The smart phone can help you for handiness life.

Where you can download the App?

iPhone user: For iPhone user, they can go to App Store to download it by search the keyword"FOMA_PKE" directly.

Android user: For Android user, they can go to Google play to download it be search the keyword"FOMA_PKE".

How to learn the alarm system with Bluetooth module (Note: it works with our company's alarm system only)

After the Alarm enter the code learning status (different alarm ,the code learning way will be different), press the code switch, the siren will chirp twice ,code learning successful .(Notice: if you want to test whether the code learning Success, press the code learning switch on the Bluetooth module once, siren will chirp once)

How to learn the mobile phone to car alarm system?

For Android: Check the Paired device in the mobile phone, choose "**FOMA-PKE**", after match Successful, open the App, click "Setting", open "PKE select device". Choose the paired device, back to the interface. At this time, the Bluetooth icon will display the connection is successful, If the connection is unsuccessful, turn off the Bluetooth, please reopen again. After connect the mobile phone Bluetooth succeed, press Bluetooth module learn code leaning switch 6 seconds until the red light on , click the " ■ " in the app , then the red light will off ,it means code leaning successful .

For iPhone: The iPhone user no need to select the paired device, the user just need to press Bluetooth module learn code leaning switch 6 seconds until the red light on , chick the " ■ " in the app , then the red light will off ,it means code leaning successful .

Optional Ⅱ: DVR

The traditional portable DVR is stop recording when the ignition turns off, but if it is connected to our GPS alarm system, it will turn on automatically and start recording the conditions for 10 min even if the ignition is turned off when the car is triggered alarming. This video clip will be locked in the memory card, so that the user will never afraid to miss the evidence.

TRANSMITTER OPERATION

Code Learning of Transmitter

If the car did not equipped with the start button. The user can learn the transmitters as following:
(If the car is equipped with the start button, pls refer to the *Phone Operation Code List* P14-15.)

The model's transmitters are learnt before delivery. If a new transmitter needs to be learnt, please learn codes as following:

A. The first way: In disarming mode, open the side door, step on the foot brake and turn the car key from OFF to ON continuously for 5 times. Stay the key at ON position at the 5th time. The second way: Open the door, press the smart button to ACC ON status or use the main bound phone to call the system, and input the operation code 71, a voice of "operation is successful" will be heard, Siren will give a long sound, LED indicator will keep on to indicate that the system has entered into Code Learning Mode.

B. Within 10 sec, press any button on the transmitter. Siren chirps once to indicate that the 1st transmitter is learnt.

C. Repeat Step B to learn other transmitters. Siren chirps twice indicate the 2nd transmitter learnt; chirps 3 times indicate the 3rd transmitter learnt … and so on. When the 6th transmitter is learnt, siren will chirp twice to indicate that all transmitters are learnt and the learning mode exits.

D. Up to 6 transmitters can be learnt. If the 7th transmitter is learnt, the 6 existing codes will be deleted automatically. Therefore, all transmitters should be learnt again.

E. During learning process, if the car key is turned to OFF and there is no operation within 10 sec, learning mode will exit automatically and siren will chirp twice to remind.

🔒 Arm/ Lock

After disabling the engine, getting away from the car and closing all doors well, press 🔒, central lock locks, siren chirps once, turn signals flash once and windows are closed in 25 sec (if the car is installed with power window). The system will enter into arming mode after 3 sec.

🔓 Disarm/ Unlock

In arming mode, press🔓, central lock unlocks, siren chirps twice, turn signals flash twice. In mute arming mode, press 🔓, central lock unlocks, turn signals flash twice, and the siren won't chirp.

🕊 Car Finder

In arming mode, press 🕊 once, siren chirps for 25 sec and turn signals flash at the same time to search the car. Press any button to deactivate this mode.

🔇 Mute Arm/ Lock

After disabling the engine, getting away from the car and closing all doors well, press 🔇, central lock locks, turn signals flash once (siren will not chirp), and windows are closed in 25 sec (if the car is installed with power window). The system will enter into mute arming mode after 3 sec.

◎ Trunk Release

In any status, press 🔓 or ◎ for 2 sec to open the trunk.

TRANSMITTER FUNCTION PROGRAM

In disarming mode, open the door and turn ACC to ON.

Function Mode	Setting/Changing Method	Siren Chirps Once	Siren Chirps Twice
Timer Engine Start	Press 🔓 + 🕊 for 2 sec	Activate	※Disable
Remote Engine Start	Press 🔒 + 🔇 for 2 sec	※Once Start	Start By Detection
Side Door Alert	Press 🕊 for 2 sec	※Activate	Disable
Dome Light Delay	Press 🔒 + 🔓 for 2 sec	※5 sec	30sec
Flameout Method	Press 🔓 + 🔇 for 2 sec	※Immediate Flameout	Delay Flameout

Automatic Arm	Keep pressing 🔒 for 2 sec	Activate	※Disable

NOTICE: With signal "※" as factory setting before delivery.

CAR ALARM FEATURES

1. Triggered Alarming

In arming mode, if someone forces to open the door, turn ACC to ON, step on the foot brake or other abnormal condition occurs, the system will be triggered and alarming, siren chirps, turn signals flash, the engine is interrupted and the car cannot be started. The alarming will stop after 30 sec and the system will resume to the arming mode.

2. Shock Triggered

In arming mode, if the car is impacted, turn signals will flash for 5 sec and siren will sound for 5 sec; if the car is impacted continuously or collided, turn signals will flash for 30 sec and siren will sound for 30 sec.

3. Automatic Rearm

In disarming mode, if none of the triggering zones is triggered, the system will rearm automatically after 30 sec.

4. Automatic Central Lock

During driving process, all doors are closed well, turn ACC to ON position; step on the foot brake after 15sec, doors will be locked automatically. Pull out the key before you get off the car, doors will be unlocked automatically.

5. Power off Memory

No matter how long the vehicle power has been cut off, the system will resume the last setting status after 5 seconds when the battery is reconnected.

6. Dome Light Delay *(Programmable)*

Model 1: ACC ON, open the door and press 🔒 + 🔓 for 2sec, siren will chirp once, the system dome light delay time is 5 sec. During this 5sec. if you open the door, the system will not alarm.

Model 2: ACC ON, open the door and press 🔒 + 🔓 for 2sec, siren will chirp twice, the system dome light delay time is 30 sec. During this 30sec. if you open the door the system will not alarm.

Model 1 selected: If any door is not closed well, when the car is armed, the system will alarm for 10 sec after 5 sec automatically to remind the driver to close the door. (Dome light delay time is 5 sec.)

Model 2 selected: If any door is not closed well, when the car is armed, the system will alarm for 10 sec after 30 sec automatically to remind the driver to close the door. (Dome light delay time is 30 sec.)

7. Side Door Alert *(Programmable)*

While driving, if any door is not closed well, turn signals will flash to warn the vehicles behind.

To activate this function, open the door, turn the car key to ON position, and press ☆ for 2sec, siren chirps once and turn signals flash once. Press ☆ for 2 sec again to disable this function, siren will chirp twice and turn signals will flash twice.

8. Automatic Environment Recognition

In terrible weather such as heavy rain or windy and snowy day, the system will shut shock trigger function automatically after being triggered and alarming 8 times continuously. When the environment turns well, after 4 minutes, the shock trigger function will resume automatically.

9. Shock Sensor Bypassed

In arming mode, press 🔒 + 🔇 for 2 sec, siren chirping twice and turn signals flashing twice indicate that shock sensor is bypassed; siren chirping once and turn signals flashing once indicate that shock sensor is activated.

10. Emergency Override

In arming mode, if the transmitter is lost or damaged, you can disarm the system by opening the door with your original car key. The system is triggered and alarming at the same time, siren keeps chirping and turn signals keep flashing. And then turn the car key from ON to OFF continuously for 5 times, the system will be override. Or you can buy a matched transmitter, disarm the car by phone and then learn the new transmitter into the system.

11. Selection of Power Lock and Pneumatic Lock

Power Lock is set in factory before delivery. The installer should open the casing of the main unit to select Pneumatic Lock.

12. Closing Windows Signal Output

In arming mode, when press 🔒 or 🔇 to arm, the system will send a signal to close the windows. If the car is installed with power windows, the windows will be closed within 25 sec.

13. Triggered Alarm Memory

In arming mode, if the arming zones are triggered and alarming, when the car is disarmed, siren will chirp, LED and turn signals will flash in different ways to warn.

Triggered Zone	Arming Mode	Disarming Mode
Shock sensor is alarming	LED flashes twice	Siren chirps 3 times, turn signals flash 3 times, LED flashes 3 times
Any door is opened by force	LED flashes twice	Siren chirps 4 times, turn signals flash 4 times, LED flashes 4 times
Ignition is triggered illegally	LED flashes twice	Siren chirps 5 times, turn signals flash 5 times, LED flashes 5 times

When any door is opened after disarming, siren will chirp once again to warn.

PHONE GSM USING GUIDE

FMG031 car alarm system is equipped with a GSM module inside the main unit. It realizes the function of controlling the car alarm system and protecting the car by mobile/fixed phone. And it means that the control range is not limited as long as the GSM network is available. Let's see how to make it work as below:

Firstly, after the installation is finished and before the power is connected, put an available mobile phone SIM card inside the main unit and make sure the GPRS of this SIM card is available too (to ensure the GPS PC tracking function will be successful).

Secondly, after putting the SIM card well, connect the power and use the user's mobile phone to call the phone number of the main unit's SIM card to check whether it can be gotten through or not. If it cannot be gotten through, cut off the power and take away the back up battery, check whether the GSM antenna is attached well or whether the SIM card inside the main unit is placed well. After checking everything well, repeat a phone call until the SIM card inside the main unit is gotten through.

▶ ▷ *Phone Using Guide:*

Pls use the mobile phone/ fixed phone to send SMS or call the main unit's SIM card to control the car alarm system. Methods are as following:

▶ by SMS ---- if you use the 2 supervisor phones to control, you just need to send the operation code of 3 digits plus # to the SIM card inside the main unit (just like to send a SMS to the other mobile phone); if you use other mobile phones including 3 spare phones to control, you need to send the operation password and the operation code together (plus #) to the SIM card inside the system (for example: to arm the car, the operation password is 123456, the operation code is 001, the content of SMS should be 123456001#). The system will send a SMS response the 1st supervisor phone to confirm the successful operation. There will be no voice response.

▶ by PHONE CALL ---- if you use the 2 supervisor phones to control, after getting through the SIM card inside the

main unit, you just need to input the operation code plus # to control the system. If you use the other phones including the spare phones to control, after getting through the SIM card of the system, you need to input the operation password and the operation code together (plus #) to control the system. The system will send a SMS response and the voice response.

Thirdly, before start to use the alarm system, the user needs to set the relevant data (explanation as follows) which is to keep operation safe via the 1st supervisor phone. Pls refer to *Phone Relevant Data Setting* (P7)*.*

▶ ▷ *Relevant Data:*

▶ the 1st Supervisor Phone ----When the user gets through the device at the 1st time, after 5 sec, input "002#" to set the calling phone number as 1st Supervisor Phone Number.

Feature 1: supreme right to operate

a) The spare phones, new operation password and new supervisor phones must be set by the existing 1st supervisor phone.

b) The user can use the operation code (3 digits plus #) directly to control the system.

Feature 2: supreme right to know

a) When any phone is used to control the system, the system will send SMS feedback to the 1st supervisor phone.

b)The system will send alarms to the 1st supervisor phone both via SMS and CALL once the car is in danger/emergency.

Note: for your first knowledge to the car's status, we strongly recommend you to set your own mobile as 1st supervisor phone.

▶ the 2nd Supervisor Phone – to be set by the 1st Supervisor Phone

Feature 1: The user can use the operation code (3 digits plus #) directly to control the system.

Feature 2: When emergency happened, if the 1st Supervisor phone has no response to the alarm, the system will send alarms to the 2nd supervisor phone and the spare phones. (Pls refer to the Spare Phones as below.)

▶ 3 Spare Phones ---- When the operation related to safety happened, or when the car is in danger of being damaged or stolen, the system will send the alarms to the 1st supervisor phone automatically at once. But if it can not be gotten through or no one answers, to ensure someone receives the alarm and protect the car effectively, the system will begin to call the 2nd supervisor phone and the spare phones circularly for 30 minutes until any one of them is answered. There are 3 spare phones.

▶ Operation Password ---- When you need to control the system by other phones rather than 2 supervisor phones, you have to send the operation code with the operation password to the SIM card inside the main unit. (If you use 2 supervisor phones to control the system, you only need to send the operation code without the operation password.) The default operation password is 123456. You can set a new operation password by the 1st supervisor phone.

▶ Operation Code ---- Operation code is formed by 3 digits among 0~9. Operation code is used to control the system. Such as the operation code 001 is used to arm the car etc. (Refer to *Phone Operation Code List* of P14-15)

▶ Time Zone Setting ---- This function is to set your locate real time into this car alarm system.

PHONE RELEVANT DATA SETTING

Notice: these data are important and only can be set by the 1st supervisor phone & only sending SMS to set is available.

▶**To Set A New 1st Supervisor Phone**

After installation, when the user gets through the main unit at the 1st time, after 5 sec, input "002#" to set the calling phone number as 1st Supervisor Phone Number. But after that, if you want to change the other phone as the 1st supervisor phone, please operate as follows:

Operation Code	SMS Response
801 phone number#	The 1st owner is xxxxxxxxxx.

Note: There should be no blank space among the words when sending SMS.

▶**To Set The 2nd Supervisor Phone & 3 Spare Phones**

Set the 2nd Supervisor Phone:

Operation Code	SMS Response
802 phone number#	The 2nd owner is xxxxxxxxx.

Note: There should be no blank space among the words when sending SMS.

Set the Spare Phones:

Operation Code	SMS Response
803 phone number#	The 1st spare user is xxxxxxxxx.
804 phone number#	The 2nd spare user is xxxxxxxxx.
805 phone number#	The 3rd spare user is xxxxxxxxx.

Note: There should be no blank space among the words when sending SMS.

▶ To Set A New Operation Password

Operation Code	SMS Response
808 new password#	New operation passoword is xxxxxx.

Note: There should be no blank space among the words when sending SMS.

Remark: a. The operation password should be six digits among 0~9;

b. To ensure the safety of your car, please keep the operation password in mind and in secret.

▶ To Set Local Time Zone

Send order of "the operation code +/- the 4 numbers of the time-zone" to the main unit's SIM card.

For example, Beijing's time zone is GMT+08：00, the content of the order will be "43+0800".

Operation Code	SMS Response
818+/-time zone#	New Time zone is GMTxx:xx

Note: There should be no blank space among the words when sending SMS.

LONG-RANGE ENGINE START METHODS

▶ ▷ Long-range Engine Start

The engine only can be started in arming mode. The driver can start the engine manually or by the system's automatic detection.

A. Once Engine Start by Transmitter (Transmitter Programmable)

If the car is powered by diesel, only Once Engine Start is available. It can not be started by detection.

a. In arming mode, press ✯ for 2 sec, turn signal flash 3 times, siren chirps once and engine will is started.

b. After the engine is started, turn signals will keep flashing for 10 sec to indicate that the engine has been started.

c. At this moment, the driver can press ✯ again to disable the engine and resume the system to former status.

d. When the engine is started, the car will be detected automatically. If any door is opened at this time, engine will be interrupted immediately. Turn signals will flash for 30 sec and siren will chirp for 30 sec and then the system will resume to former arming mode. (When the engine is started, shock sensor will not be detected until the engine is disabled.)

e. When the engine is started, the driver can press ⬜ to disarm and unlock.

f. The engine will be started for 20 minutes. After 20 minutes, if the driver doesn't disarm and unlock, siren will chirp for 3 sec and then the engine will be disabled automatically and the system will resume to the former arming status.

A. Start Engine By Detection (Transmitter Programmable)

a. In arming mode, press ✯ for 2 sec, siren will chirp once and turn signals will flash 3 times, engine will be started immediately.

b. When the engine is started, turn signal will flash for 10 sec to indicate that the engine has been started.

c. At this moment, the driver can press ✯ again to disable the engine and resume the system to former status.

d. When the engine is started, the car will be detected automatically. If any door is opened at this time, engine will be interrupted immediately. Turn signals will flash for 30 sec and siren will chirp for 30 sec

and then the system will resume to former arming mode. (When the engine is started, shock sensor will not be detected until the engine is disabled.)

e. When the engine is started, the driver can press ■⌐ to disarm and unlock.

f. If the engine cannot be started, or the engine is disabled again, the system will detect the status automatically for 5 times and start the engine again. If at the 5th time, the engine is still not started, it indicates that the power of vehicle battery is lower than 9V. Siren will give two long sounds to warn.

g. The engine will be started for 20 minutes. After 20 minutes, if the driver doesn't disarm and unlock, siren will chirp for 3 sec and then the engine will be disabled automatically and the system will resume to the former arming status.

C. Once Engine Start By Phone (Operation Code is 010#)

In arming mode, send SMS with the operation code or make a phone call to the SIM card inside the main unit to send the engine start order, the engine will be started at once for 20 minutes. The 1st supervisor phone will get a SMS/Voice response with "Your vehicle is started!!!"

Notice: a. If the hand brake is not pull up, any door is not closed well or the system is not in arming mode, this operation will not be allowed and SMS feedback "The hand brake is not pull up. The engine cannot be started", "Invalid operation" or "Your vehicle is disarmed. The engine cannot be started".

b. While start engine, the car will be kept in arming mode, the ignition will be off when disarm.

c. If the engine cannot be started successfully, please also try to select different engine start time as 0.6/ 0.8/ 1.0 sec. (Pls refer to the operate code list P15)

Attention: Unavailable Engine Start

A. If the hand brake is not pull up, when the driver tries to start the engine, siren will give two long sounds to warn that the car is in abnormal condition. And then the system will resume the former arming status.

B. The system only can be re-started for 5 times. If it still cannot be started at the 5th time, siren will give two long sounds to warn the driver that the car cannot be started by transmitter. He should start the car with the key manually.

D. Engine Off/ Flameout By Transmitter

Press ■⌐ once to stop the engine. The doors will not be unlocked and the system is still in arming mode. If the user need unlock the door, he needs to press ■⌐ again.

E. Engine Off/ Flameout By Phone (Operation Code is 011#)

▶ Send SMS with the operation code 011# or make a phone call to the SIM card inside the main unit to send the flameout order, the engine will be off at once and the car is still in arming mode. The 1st supervisor phone will get a SMS/Voice response with "Your vehicle is engine off".

▶ If the user sends the operation code 002# (which is the disarm order) to the system, the engine will not be stopped/ will be stopped (optional) but the doors will be unlocked and the car is in disarming mode. However, when the handbrake is pushed down, the engine will be stopped automatically.

▶ ▷ **Timer Engine Start**

A. <u>Activate By Transmitter</u>: refer to ***Transmitter Function Program*** (P4) to activate this feature firstly. Then, when the car is armed/ locked, please keep pressing ✖ for 2 sec, the engine will be started for 20 minutes to indicate that the Timer Engine Start function is available.

B. <u>Activate By Phone (Operation Code is 115#)</u>: in arming mode, send SMS with the operation code to the SIM card inside the main unit to send this order, the timer engine start function will be activated. SMS responds "Timer engine start is on." (Unavailable for making a CALL operation.)

C. <u>Feature</u>:

a. When this function is activated, the engine will be started automatically for 20 minutes and then stopped. After 2 hours, the engine will be started again for 20 minutes. The engine will be started for 5 times.

b. Each time you arm the car, this function will be activated again.

D. <u>Disable By Transmitter</u>: refer to ***Transmitter Function Program*** (P4) to disable this feature.

E. <u>Disable By Phone (Operation Code is 116#)</u>: in arming mode, send SMS with the operation code to the SIM card inside the main unit to send this order, the timer engine start function will be disabled. SMS responds

"Timer engine start is off." (Unavailable for making a CALL operation.)

Attention: a. If this function is activated by transmitter program, each time to realize/activate timer engine start, the user needs to keep pressing 🏹 for 2 sec.

b. **by Phone**: If the hand brake is not pull up, any door is not closed well or the system is not in arming mode, this operation will not be allowed and SMS feedback "The hand brake is not pull up. The engine cannot be started", "Invalid operation" or "Your vehicle is disarmed. The engine cannot be started".
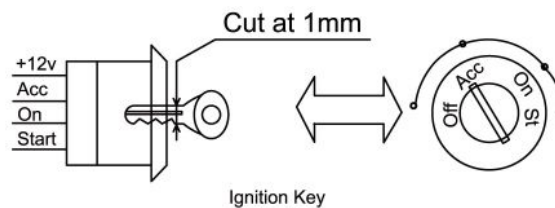
▶ ▷ Once Start Button (Optional Feature)

▶ Using Guide:

a. Press the start button only, it will be ACC ON~OFF~ON~OF~ON … circularly;

b. Step on the foot brake (LED inside the button flashes) and press this button once, it will be Ignition ON~OFF~ON~OFF…circularly. Engine start time is 0.6s/0.8s/1.0s (refer to **Operation Code List** P15).

Note: a. if you step on the foot brake, press and hold the start button, the engine will keep being started. The engine can be started not more than 3 sec; otherwise, the engine may be damaged.

b. if the wire of the foot brake is connected with the ACC ON, only need to keep pressing the start button to start the engine.

c. While driving, keep pressing the start button to ACC OFF/ stop the engine. It's no need to step on the foot brake.

▶ Installation Guide:

Ignition Key

a. If there is only one wire of the steering wheel lock, pls connect the two wires of the power (Red) at first, and then connect with the lock's wire.

b. If there is the special socket of the steering wheel lock, pls connect the pins to the socket directly. It's no need to connect wires.

c. When the car is installed with the start button, to use the button to start the engine successfully, the steering wheel locks shouldn't be locked. So the user should ask the locksmith key to copy the original car key. Pls insert the copied key into the keyhole and turn it to the 1st or the 2nd gear, and cut it in 1mm in exposed. Pls cover the button on the keyhole.

▶ Engine Off/ Flameout Method (Transmitter Programmable):

Refer to **Transmitter Function Program** (P4) to choose immediate or delay flameout.

a. Immediate Flameout: suggested for *automotive-gearshift car*. When step on the foot brake and keep pressing the start button, the ignition will be off at once. (Pls make sure the gear is moved to P and the hand brake is pull up after flameout.)

b. Delay Flameout: suggested for *manual-gearshift car*. When step on the foot brake and press the start button, siren will chirp once. After 2 minutes, the ignition will be off. Within the 2 minutes, the user can check whether the hand brake is pull up and the gear is stuck in neutral or not.

Notice: ▶ We strongly suggest that you should program delay flameout if your car is manual-gearshift. It helps make sure that the hand brake is pull up and the gear is stuck in the neutral to prevent the car moving by itself when it is started by the phone/ transmitter in long range.

▶ The user also can send operation code to the SIM card inside the main unit to select Immediate /Delay Flameout method. (Refer to **Operation Code List** P14 operation code 124# and 125#.)

SOS BUTTON

f there is any emergency happened, the driver can push the SOS button inside the car (pls install this button in a hidden place). The siren will alarm once. And the system will send SOS message to all of the bound phones(both main phone and spare phones) for urgent help.

ANTI-HIJACKING METHODS

Anti-hijacking mode is for stopping and immobilizing the engine by force when the car is in danger of being robbed or in other emergent situations.

▶▷ **Anti-hijacking By Transmitter**

While driving, if there is any emergency occurs, press ◁𝕏 for 2 sec, turn signals will flash quickly. Press 🔒 once within 10 sec, turn signals will stop flashing. After 15sec, system enters into anti-hijacking mode, siren chirps and turn signals flash. If the moment driving speed is less than 20km/h; or after the other 15 sec when you step on the foot brake, the engine is forced to stop working. Press 🔓 for 2 sec to deactivate this function.

▶▷ **Anti-hijacking By Phone (Operation Code is 006#)**

In any status, send SMS with the operation code or make a phone call to the SIM card inside the main unit to send this order, the anti-hijacking mode will be activated, siren will sound, turn signals will flash; when the driving speed is lower than 20Km/h, the engine will be forced to be off. At the same time, the transmitters will be disabled automatically. The 1st supervisor phone will get a SMS or Voice response "Emergency! Engine died!!!"

▶ To exit: send SMS with the operation code 002# or make a phone call to the SIM card inside the main unit to activate the engine and the transmitters.

VOICE MONITOR

This product is equipped with a microphone. We suggest to install it in a hidden place inside the car. This feature is designed to mainly monitor who's talking and what they are talking inside the car in case the car is stolen/robbed. (The Operation Code is 013#)

In any status, make a phone call to the SIM card inside the main unit and input the operation code 013# according to the voice response, the microphone will be activated. The voice inside the car will be heard, but there will be no warnings to the people who is inside the car. While monitoring, the other operations such as location, anti-hijack etc, can be continued, the voice monitor will be off after hanging up.

Note: 1. The microphone only can be activated by making a PHONE CALL. Order of sending SMS will be not available. And there will be no SMS response.

2. This feature only can be activated by the 1st supervisor phone.

GPS TRACKING GUIDE

There are 2 methods to track the current location of the car:

▶▷ **Method 1: Mobile Phone GPS Locating (Operation Code is 008#)**

▶ This method helps the user get the car's current location to the mobile phone.

▶ It's no need to pay the service fee for this feature. Only SMS cost will be charged by telecom operators.

▶ In any status, send SMS with the operation code or make a phone call to the SIM card inside the main unit to send this order, the system will send SMS feedback with longitude and latitude as well as a Google link of the map. The user could visit the Google link by the mobile phone directly to search the location map. When the car is stolen or robbed, the longitude and latitude could help the police to find back the car more quickly.

▶ ▷ **Method 2: PC GPS Real Time Tracking (Operation Code is 481#)**

▶ This method helps the user tracking the car on the website.

▶ It's free for the 1st year. From the 2nd year, the user should charge the service fee CNY100/year directly to the tracking website

▶ Tracking Steps:

1. Make sure to activate the GPRS of your mobile phone.
2. Activate GPS tracker at first by sending SMS with the operation code 481# or making a phone call to the SIM card inside the main unit. The main bound phone will get a SMS response with "Tracker is available".
3. Write down the S/N number from the back of the device or from the S/N paster inside the package.
4. Enter into the tracking website of www.foma-icar.com.

5. Register a new account with the S/N number. (Login ID is the S/N number and the password is the last 5 digits of the S/N number.)
6. Input content as website presentation. (You can reset a new password and account name after successful registration.)
7. Log in the website and operate as the website presents.
8. The user can select time period to refresh the tracking data, and it will cost the a few GPRS.

Note: This feature is not surely available in all countries. Because the current sample tracking server (the tracking website) is in China. Pls check the sample at first. If not and you need to make sure 100% it's available in your country, you need to contact with the supplier for helping set up server for your country.

MOBILE PHONE SOFTWARE INTRODUCTION

If the user's mobile phone is equipped with *Android* or *iOS* system, the user can install our convenient mobile operation software in the mobile phone. (The APPS is only available in the 2 supervisor phones.)

** *This APP is only for the user's easy & comfortable control to the car alarm system.*

Android System Installation:
1. Ask the supplier/manufacturer for the APPS, or search "FOMA" in the Google Play,
2. Install the APPS into your mobile phone.
3. Open the APPS and input the main unit's SIM card's number and the operation password. (The password should be consisting of 6 digits among 0-9).
4. Installation is finished.
5. The user can start operate the APPS and control the car alarm system directly.

iOS System Installation:
1. Search "FOMA" in the APP STORE and download the APPS.
2. Install the APPS into your mobile phone.
3. Open the APPS and input the device's SIM card's number and the operation password. (The password should be consist of 6 numbers among 0-9).
4. Installation is finished.
5. The user can start operate the APPS and control the car alarm system.

PHONE OPERATION CODE LIST

Note: Default operation password is 123456.

Function	Operation Code	SMS Feedback	Voice Response	Default	CALL Operation	SMS Operation
English SMS	201#	English	×	√	×	√
Russian SMS	202#	Русский язык	×	×	×	√
Arabic SMS	203#	أللغة العربية	×	×	×	√
Spanish SMS	204#	Español	×	×	×	√
Portuguese SMS	205#	Português	×	×	×	√
Farsi SMS	206#	فارسى	×	×	×	√
Indonesia SMS	207#	Bahasa Indonesia	×	×	×	√
Arm	001#	Alarm is on.	Alarm is on.	----	√	√
Disarm	002#	Alarm is off.	Alarm is off.	----	√	√
Mute Arm	003#	Alarm is on.	Alarm is on.	----	√	√
Car Finder	004#	Searching car.	Operation is successful.	----	√	√
Trunk Release	005#	Trunk is opened.	Trunk is opened.	----	√	√
Anti-hijacking Mode	006#	Emergency! Engine died!!!	Emergency! Engine died!!	----	√	√
Take Photo	007#	Operation is successful.	Operation is successful.	----	√	√
SMS Location Report	008#	Coordinate and Google link	Operation is successful.	----	√	√
Engine Start	010#	Your vehicle is started!!!	Your vehicle is started!!	----	√	√
Ignition Off	011#	Your vehicle is engine off!!!	Your vehicle's engine off!!	----	√	√
Windows Up	012#	Windows are closed.	Windows are closed.	----	√	√
Voice Monitor On	013#	×	----	----	√	×
External Shock Sensor On	101#	Shock sensor is on.	×	√	×	√
External Shock Sensor Off	102#	Shock sensor is off.	×	×	×	√

Transmitter Off	103#	Transmitters are bypassed.	✕	✕	✕	√
Transmitter On	104#	Available transmitters.	✕	√	✕	√
Arm by Transmitter With SMS Feedback	105#	Message feedback when arm by remote.	✕	✕	✕	√
Arm by Transmitter Without SMS Feedback	106#	No message feedback when arm by remote.	✕	√	✕	√
Disarm by Transmitter With SMS Feedback	107#	Message feedback when disarm by remote.	✕	✕	✕	√
Disarm by Transmitter Without SMS Feedback	108#	No message feedback when Disarm by remote.	✕	√	✕	√
GPS Signal Reconnection Notice	109#	GPS reconnect remind ON.	✕	✕	✕	√
No GPS Signal Reconnection Notice	110#	GPS reconnect remind OFF.	✕	√	✕	√
Available GEO Fencing	111#	GEO Fencing ON.	✕	✕	✕	√
Unavailable GEO Fencing	112#	GEO Fencing OFF.	✕	√	✕	√
Timer Engine Start On	115#	Timer engine start is on.	✕	✕	✕	√
Timer Engine Start Off	116#	Timer engine start is off.	✕	√	✕	√
Internal Shock Sensor On	117#	Interior shock sensor is on.	✕	√	✕	√
Internal Shock Sensor Off	118#	Interior shock sensor is off.	✕	✕	✕	√
Adjust Internal Shock Sensitivity As Low	121#	Low shock sensitivity.	✕	✕	✕	√
Adjust Internal Shock Sensitivity As Middle	122#	Midrange shock sensitivity.	✕	√	✕	√
Adjust Internal Shock Sensitivity As High	123#	High shock sensitivity.	✕	✕	✕	√
Car Is Manual Shift	124#	Car is with manual shift.	✕	✕	✕	√
Car Is Automotive Shift	125#	Car is with automatic shift.	✕	√	✕	√
Activate Transmitter Learning Mode (Door opened & ACC ON)	126#	It's ready to learn transmitters.	✕	----	✕	√
Tracker On	481#	Tracker is available.	✕	✕	✕	√
Tracker Off	482#	Tracker is not available.	✕	√	✕	√
Ignition Timer Is 0.6s	471#	Ignition time is 0.6 sec.	✕	✕	✕	√
Ignition Timer Is 0.8s	472#	Ignition time is 0.8 sec.	✕	√	✕	√
Ignition Timer Is1.0s	473#	Ignition time is 1.0 sec.	✕	✕	✕	√
80kph Speed Warning	308#	80km/h speed warning ON.	✕	✕	✕	√
90kph Speed Warning	309#	90km/h speed warning ON..	✕	✕	✕	√
100kph Speed Warning	310#	100km/h speed warning ON..	✕	✕	✕	√
110kph Speed Warning	311#	110km/h speed warning ON.	✕	✕	✕	√
120kph Speed	312#	120km/h speed warning ON.	✕	✕	✕	√

Function	Operation Code	SMS Feedback	Voice Response	Default	CALL Operation	SMS Operation
Warning						
No Speed Warning.	300#	Speed detector OFF.	×	√	×	√
Time-zone Setting	818+/-0800#	New Time zone is GMT08：00	×	+08:00	×	√

The following operation only can be set by the 1st supervisor phone:

Function	Operation Code	SMS Feedback	Voice Response	Default	CALL Operation	SMS Operation
Reset Operation Password	808new password#	New operation password is xxxxxx.	×	operation password is 123456	×	√
Set 1st Supervisor Phone Number	801 phone number#	The 1st owner is xxxxxxxxxx.	×	----	×	√
Set 2nd Supervisor Phone Number	802phone number#	The 2nd owner is xxxxxxxxxx.				
Set 3rd Contactor Phone Number	803phone number#	The 1st spare user is xxxxxxxxxx.	×	----	×	√
Set 4th Contactor Phone Number	804 phone number#	The 2nd spare user is xxxxxxxxxx.	×	----	×	√
Set 5th Contactor Phone Number	805 phone number#	The 3rd spare user is xxxxxxxxxx.	×	----	×	√

Note: 1. The above settings must have been done by the 1st Supervisor Phone Number.

2. When the user gets through the device at the 1st time, after 5 sec, input "002#" to set the calling phone number as 1st Supervisor Phone Number.

★ **Notice:**

1. Please make sure that there are no spaces when you are inputting these orders.

2. If there's any wrong input when the user sends SMS order to the device, he can input "＊" to erase the former content.

★ **3. When the user CALL to operate, he can input "＊" to stop voice response.**

2-WAY CAR ALARM RESPONSE

In arming mode, if the car is collided, any door, the hood or the trunk is forced to be opened and the wires are cut, the system will send warnings to the bound phones via SMS feedback and calling feedback automatically. SMS & Calling feedback as follows:

Someone enters into your vehicle illegally.

Attention: someone breaks into your vehicle!!!

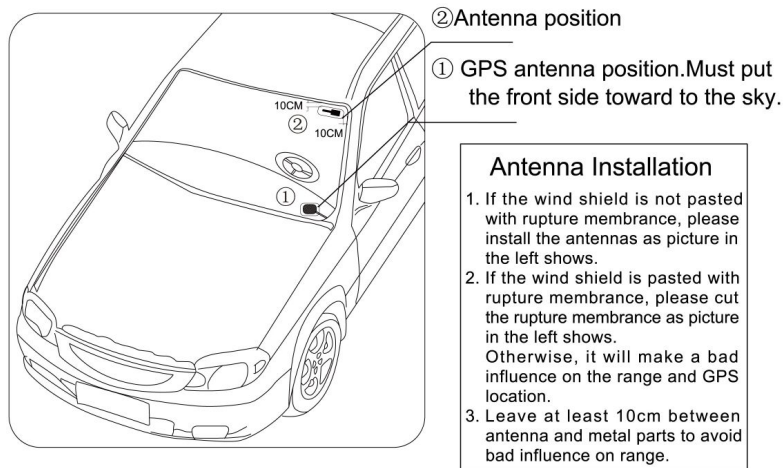The vehicle is collided.

Attention: your vehicle is collided!!!

Note: a) The system will send SMS warning and call the 1st supervisor phone to send warning at the first time. If there is no answer, the system will keep calling the 2nd supervisor phone and the other 3 spare phones. Within 30 minutes, the system will keep calling the 4 bound phones circularly until any phone answers. After 30 minutes, the system will stop calling automatically.

    b) After the model's wires are cut, if the backup battery capacity is low, system will send warnings to the 1st supervisor phone automatically (SMS feedback: Attention: low battery! Please recover external power in time!)

    c) After the model's wires are cut, and then re-connected, the system will remind automatically by SMS feedback "External power is recovered."

    d) After you answer the calling, the system will also remind that "system is connected, ready for settings", you can keep sending operation codes if it's necessary.

INSTALLATION OF FMG031 CAR ALARM SYSTEM

▶▷ **Accessories' location**

▶▷ **Central Door Lock Diagram**

    1. **if the car has been installed with the central lock system, the installer only need to distinguish the negative/positive trigger, please connect the wires as figure 2 and figure 3.**

    2. **if the car has been installed with the central lock system, but there is no motor in the driver's**

door, the installer needs to install a motor to the driver's door first. Please connect the wires as figure 4.

3. **if the car has been installed with the central lock system, the installer can select pneumatic lock through the jumper inside the main unit, please connect the wires as figure 5.**
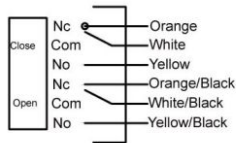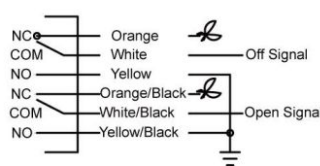

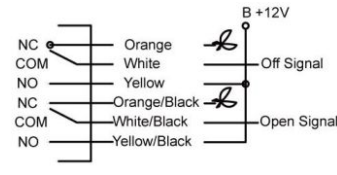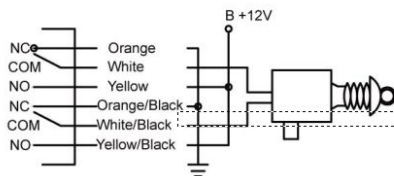Figure1 Inner Part Principle   Figure2 Negative Trigger   Figure3 Positive Trigger
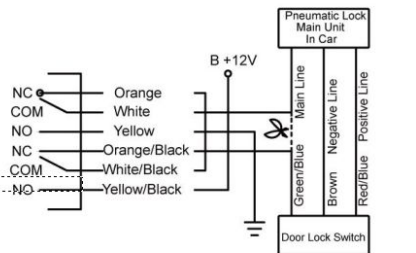

Figure4 Positive/Negative Trigger   Figure5 Pneumatic Lock Connecting Line

►▷ Installation Notice

a. For the car security and service functions most efficiently, we recommend that you trust with professionals to install the system in your car.

b. To avoid to damage the SIM card, please install the SIM card into the main unit after cut off main unit power and take away the inside battery.

c. GPS antenna should be placed flat and main face should be up, the leaning angle can't be more than 45°.

d. Please install the system in a hidden place to protect it from invalid un-installation; and also keep in in a dry place to avoid damage from the wet.

e. Don't put the system near the engine, as the high temperature will make the system work abnormally and shorten its life.

f. After installation, please pack the connected wires well, and must keep it insulating from the car body to avoid accident caused by short circuit.

►▷ Installation Steps

a. Before installation, please prepare an ordinary mobile phone SIM card with GPRS available. This SIM card will be phone number of the system. To ensure the system work successfully, please make sure that the telephone charge of the SIM card is enough.

b. Please install the product according to the Wire Diagram in a hidden place. (P18)

c. After all the wires connected well, please disconnect the main power and take away the back up battery. Put the prepared SIM card into the SIM card socket, and then connect the main power and put the back up battery into the main unit.

d. 60 sec after installation and being power on, please use the phone to call the SIM card inside the system to make sure whether the system can connect to the GSM network or not.

e. If "System is connected, ready for setting" is heard, it means that the GSM network works and the main bound phone set succeeds; if no answer, or can't get through with the SIM card, it means that the system cannot connected to the GSM network and has no main bound phone set. Please disarm the system by transmitter and take away the back up battery and cut off the main power, check whether the GSM antenna is attached well, or whether the SIM card inside the product is placed well. After checking everything well, repeat step d.

f. If user's phone is connected with the system well and set as the 1st supervisor phone, it means that the installation is successful.

ADDITIONAL NOTICE

A. While driving, the user cannot control the system such as arm, disarm … etc. The system will send SMS feedback of "No operation allowed while driving" to the 1st supervisor phone.

B. When the user controls the system by calling the system and six wrong operations are done continuously, the calling will stop automatically.

C. This model works in 4 GSM network: 900M, 1800M, 850M, and 1900M.

D. There is a backup battery inside the main unit. When the system's wires are cut, the backup battery will support the system to send warning to the bound phones via SMS and calling (Attention: system is damaged! Power off!!! Longitude *****, latitude *****) When the system's wires are re-connected, the backup battery will be charged automatically.

E. The user can locate the car via sending SMS or making a call to the system at anywhere and anytime. The system will send feedback of longitude, latitude and Google link of map which the user can click directly by the mobile phone to check the map of location.

F. There is no limited range for this model. Therefore, if the car is robbed or witnessed being stolen, to avoid closed attack, the user can activate the anti-hijacking mode after the car is driven to a distance. When anti-hijacking mode is activated, the engine will be forced to be off and the system will send back GPS location feedback to help find back the car quickly.

G. To ensure good performance of the backup battery and avoid damage or explosion, please keep it in a temperature from -10℃ to 50℃.

H. If the user changes a new SIM card inside the main unit, the existing relevant data such as main bound phone number, local time data, operation password…etc will not be changed.