



Remote Engine Start

USER MANUAL

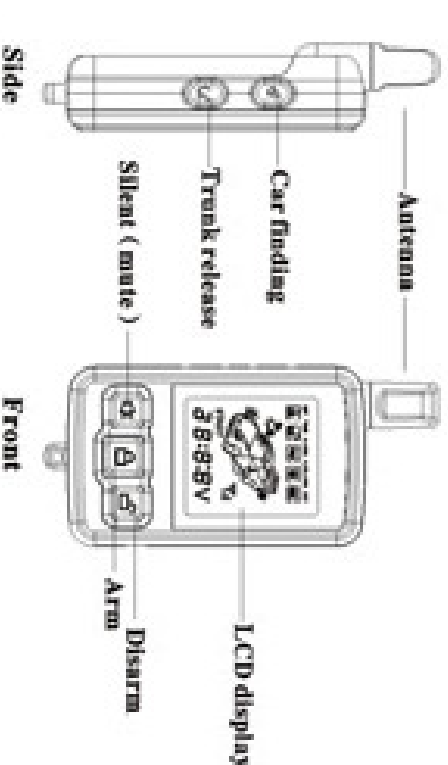
TWO-WAY CAR ALARM SYSTEM

It is recommended that before installation please read this user manual carefully. And keep it for future reference!

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Button Functions



➊ **Arm**
Press the button ➊ on the transmitter once to lock the door and arm the system with sound and flash.

Press the button ➋ once again to set car finding status (microwave sensor is working).

It can be shifted between two arming modes by pressing the button ➌ repeatedly.

Press the button ➍ to lock the door during driving.

➎ **Disarm**
Press the button ➎ once to disarm the system, then central door locking system unlock.

Press the button ➏ during driving will cause door unlock.

➐ **Silent(mute)arm**
Press the button ➐ once to lock the door in silent arm status. Press the button ➑ once again, the microwave sensor will work in silent arm status.

It can be shifted between two arming modes by pressing the button ➒ repeatedly.

Press the button ➓ for at least 3 seconds to start the engine.

Press the button ➔ for 2 seconds or more during driving to set anti-hijacking.

➕ **Trunk release**

1. Shortly press the button ➕ to turn on the background light

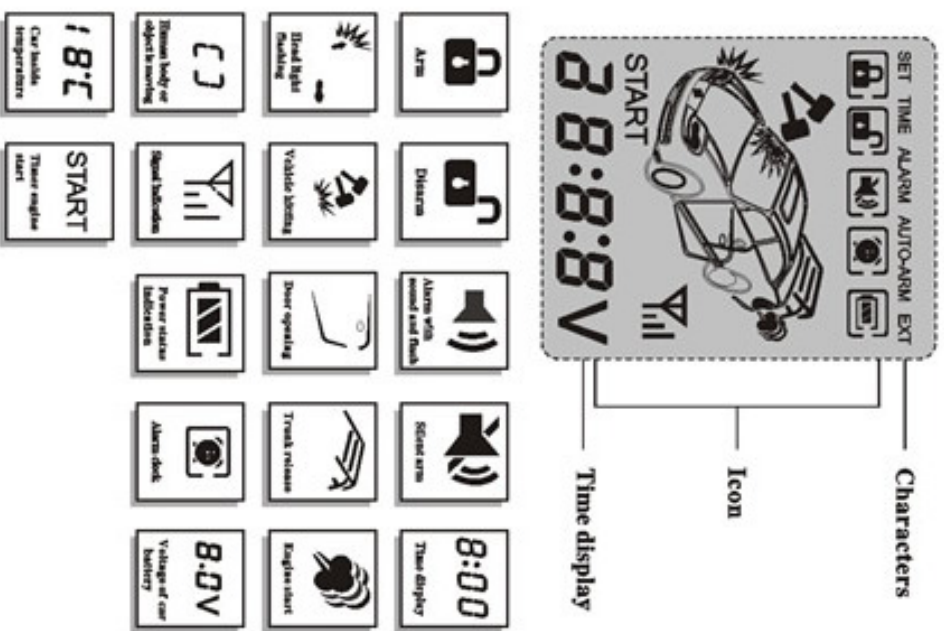
2. Keep pressing the button ➕ to release trunk.

➖ **Car finding**

Press the button ➖ once to set car finding with sound and flash.


Keep pressing the button ➖ to set car finding with flash only.

Icon illumination displayed in LCD




Transmitter power on/off setting

Transmitter power on

Press the button  on the transmitter for 2's. Then release the button, icon on the display will self-test one by one. Transmitter will vibrated twice, and the background light will be turn on.

Transmitter power off

Press the button  on the transmitter for 7's until a voice "Do" is emitted, then release the button.

Note

Before using, please switch on the transmitter.

Power status indication

When battery power is weak, press any button on the transmitter will emit a "Di-Di" sound to remind power recharge. Then it should be recharged in time. The power status indication as shown in the figures below.



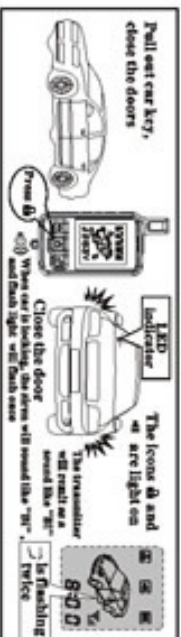
Reminding

- ♥ The transmitter will turn off automatically when it runs out of power.
- ♥ It will take approximate 1.5 h for full power recharge.
- ♥ It can be recharged interval.

Basic Function

Sound/Flash arm

When parking, take car key off, close all doors, then press the button **A** once to lock the door, the LED indicator will flash, the flash light will gleam once, the siren will chirp once. The transmitter then emits a sound "Bi-Bi", and the icons **A** and **M** are light on, side door icon is flashing twice, and background light turns green.

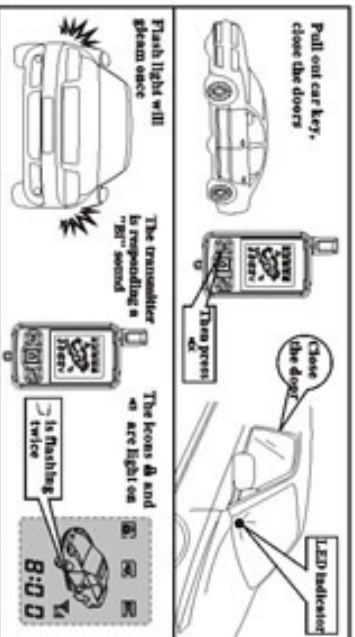


Press the button **A** again, shock sensor and microwave sensor are working. In this mode, the LED will flash, the flash light will gleam once, the siren will emit a sound like "Bi". Then a music sound will emit from the transmitter, and the icons **A** and **M** are light on, side door icon is flashing twice, and background light turns green.

Note Only microwave sensor is fitted, this function can be used.

Silent arm setting

When parking, take car key off, close all doors, press the button **X** once to lock the door, the LED indicator will flash, the flash light will gleam once, the siren doesn't chirp, then it is in silent arm status. Shock sensor is working in this mode. Then a music sound "Bi-Bi" will emit from the transmitter, and the icon **A** and **M** are light on, side door icon is flashing twice, and background light turns green.



Press the button **X** again, shock sensor and microwave sensor are working. In this mode, the LED indicator is flashing, the flash light will gleam once, the siren doesn't chirp. Then a music sound will emit from the transmitter, and the icons **A** and **M** are light on, background light turns green, side door icon will gleam twice.

Note Only microwave sensor is fitted, this function can be used.

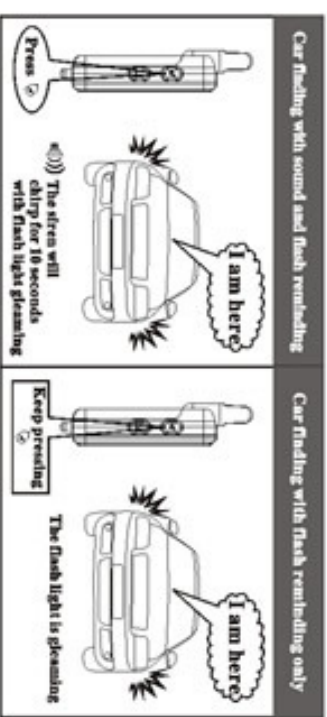
Disarm

In arm status, press the button **D** once to unlock the door, the flash light will gleam twice, the siren will "Du-Du". Then the transmitter will emit a sound like "Bi-Bi". Side door icon on the transmitter will flash twice, then light on for 5 seconds. The icon **D** on the transmitter will light on. Background light turns yellow.

In silent arm, the siren will not chirp, others will be the same as sound and flash arm setting.

Car finding

The car owner unknow the parking place when he wants to find the car, press the button **V** on the transmitter once, the siren will chirp for 10 seconds with flash light gleaming, press the button **V** on the transmitter for 2 seconds or more, the flash light will gleam for 10 seconds without siren chirping to remind the car owner.



Reminding

Press any button to pause car finding mode.

Siren pause

If the system is triggered to alarm, press the button **A** or **X** to halt alarm. The alarm system will reset itself. It's available to pause 2 transmitters alarming at the same time.

Emergency disarm

In case the transmitter is lost or damaged, just open any door by a car key (the alarm is triggered, the siren chirps & the flash lights gleams) then press the footbrake and turn the ACC "Off/On" 10 times and leave key at "On" position for 2 seconds to disarm automatically.

Triggering memory

In arm status, if the system is triggered to alarm, the triggering information would be recorded to remind car owner to check the car.

A. Alarm triggered by hit, to remind the car owner, the siren will sound like "Du-Du" twice (it will not sound if it is in silent arm setting), the LED indicator gleam will flash for 4 times continuously with interval of 2 seconds until ACC is on.

B. Alarm triggered by door opened, ACC, brake pad, to remind the car owner, the siren will sound "Du" for 4 times (it will not sound if it is in silent arm setting), the LED indicator will gleam continuously until ACC is on.

When it is disarmed, if the car owner opens the car, the triggering memory will remind the car owner that the alarm system was triggered. IF ACC ON, it will delete all triggering memory. When it is disarmed without ACC ON, open the car door two times, it will trigger to alarm and the triggering memory will be deleted except the LED indicator

Accessory function

Time & Alarm clock & start setting

Press the button **A** and **F** at the same time for 1 second to time setting mode, the transmitter will sound once and the icon **A** will gleam. Press the button **A** will switch setting (Times / minute, time / hour, alarm clock on/off alarm clock /minute, alarm clock / hour , and exit) circularly . Press the button **F** to adjust the setting data, then press the button **A** for next setting adjustment. Press the buttons **A** and **F** at the same time to save setting and exit the setting mode. Press the **F** to exit without saving mode.



Data setting

Time: hour and minute setting

Alarm clock: alarm ON/OFF, hour/minute setting. When it is alarming, clock icon will blink with green background light. Start: time to start-up ON/OFF, hour/minute setting. When it's the time to start up the vehical which was set before, the engine will be on by itself, the icon **A** in the display will gleam and the background light turns green.

Auto-arm: the brain unit arms automatically.
Exit: press the button **A** and **X** at the same time, then save and exit the setting mode. The transmitter will emit a sound to remind and then back to standby mode and time display.

Background light of transmitter

Press the button **F** at the same time for time viewing at night.

The background light will turn green in arm setting, and it will turn yellow in disarm setting.



The background light will turn green if it is alarmed by shock and microwave sensing. If it is triggered again in 15 seconds later, it will turn yellow.


The yellow and green background lights will turn on at the same time if the alarm system is triggered by door, footpad.

The yellow and green background lights will turn on alternately if the alarm system is triggered by ACC ON.

Arm reminding and auto-arm (switch optional)

There is a Jumper (J2) on the brain unit for auto-arm. When car engine is cut off without arming, the system will alarm with sound emitting from siren to remind, the flash lights gleam for 3 times.

If the system is triggered by hit when the engine is cut off and door closed within 10 seconds, the system will remind arming. The system will emit sound like "Bi - Bi" for 3 times with vibration for 8 times if the car parked without arming. And the icon  and  on the transmitter gleams alternately, the background light turns green. to remind arming.

The alarm system will auto - arm by itself in silent mode if parking without arming in 1 minute. The transmitter will make sound with vibration to remind arming. And icons  and AUTO-ARM will light on.

If this function is switch off, the system will not go into auto-arm mode by itself, only reminding the car owner of arming the car.



Reminding

- The default setting is auto-arm.


Central door locking automation



Driving for 15 seconds then pressing the footbrake, the central door locking system will lock automatically, while the central door locking system will unlock automatically after engine cut off.


If car door is locked improperly and 15 seconds later when driving, the system will remind the driver with a sound "Du" for 3 times and flash lights will gleam once.


When driving, press the button  on the transmitter to lock car door, and press the button  to unlock.

Remote engine start

In arm status, press the button  for at least 3 seconds to start the engine. A beep sound emits from the remote for reminding, with blinking of icon "START", meaning the engine is started successful. It should be operated in neutral position and hold on the brake.

A. Once the engine has been started, the air conditioner would be started in 15 seconds later, and the transmitter will emit a reminding sound with interval of 2 minutes, then icon  remains gleaming, siren chirps 3 times and vibrates once, then repeat again. Press the icon  to upgrade the temperature display, then back to time display in 3 seconds.

B. Once the engine has been start, the car will be warming-up for 12 minutes, then it will rearm to the previous status. Press the button  for at least 3 seconds will turn off the engine and return to previous arm status. A beep sound emits from the remote for reminding.

C. When car is warming up, press the button  to unlock for driving and turn the car key to ACC ON within 30 seconds, otherwise it would return to previous arm status.

D. In case it is fail to start the engine, the system will return to previous arm status.



Note


This function would not allow to be activated if the hand brake handle is not held on and it should be operated in neutral position. To remind the user, the siren will sound for 3 times and the flash lights will flash for the 3 times. Then it will rearm.


The company will not responsible for any accident if the car is not operated in neutral position.

Timer engine start

In arm status, when the setting time elapsed, the engine would be started automatically. In the mean time, the icon "START" will be blinking, and a beep sound will remit from the remote to reminding. Please be sure that it should be operated in neutral

position and the hand brake is held on. Once the engine has been started, the air conditioner will be turned on in 15 seconds later, the transmitter will emit a reminding sound with interval of 2 minutes, the icon  remains blinking "START" figure lights on and maintains, siren chirps 3 times and vibrates once, then repeat again. Press the icon  to upgrade the temperature display, then back to time display in 3 minutes.

Once the engine has been started, car will be warning-up for 12 minutes, then it will rearm to the previous status. Press the button  for at least 3 seconds will cut off the engine and return to previous arm status. A beep sound will emit from the remote for reminding.

When the car is warming up, press the button  to unlock for driving and turn the car key to ACC ON within 30 seconds, otherwise it would return to previous arm status.

In case it is fail to start the engine, the system will return to previous arm status.

Note

This function would not allow to be activated if the hand brake handle is not held on, and it should be operated in neutral position. To remind the user, the siren will sound for 3 times and the Flash lights will flash for the 3 times. Then it will rearm.

The company will not responsible for any accident if the car is not operated in neutral position.


Remote detecting inside car temperature and voltage

In engine off status, press any button on the remote to display the voltage for 3 seconds and then temperature inside car for 3 seconds, then return to the time display status.

Note

The temperature may differ according to the different location of temperature sensor.

Arm responding automation (anti – false disarm)

In arm status, if press the button  to disarm but car door is not opened within 25 seconds, the system will rearm automatically by itself as it is regarded as false disarm. It will respond to transmitter to remind the car owner.

Door locking reminding

In arm status, if any door is improperly locked, after 10 seconds, the siren will chirp and flash light gleam for 3 times respectively

to remind, the transmitter will emit a sound of "Bi-Bi-Bi" and vibrate for 3 times respectively. Meanwhile, the icon of side door in the transmitter blinks, the background light turns green. In this case, pls disarm and lock the door, then reset arm.



After 15 seconds, if the door is still improperly locked, the siren will chirp, and flash lights gleam: The headlight and side door icons will flash for around 30 seconds, the background light turns yellow, the transmitter emits "Bi-Bi" for about 30 seconds and vibrates for 8 times. If the door is improperly locked after a cycle of flash/sound arm, the arm maintains until disarming or locking the door or 4 minutes later. (The others triggers are working for arming.)

Sensing reminding

If transmitter can not receive any signal from brain unit, it will be indicated in the display of transmitter.

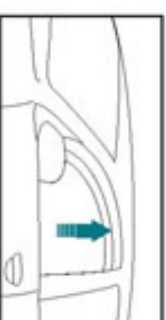


Power off memory



In case the security system is powered off, the setting status will be restorable after power on.


Window roll up automation

The system will close car windows automatically in arm mode status. (Only fitted with window roll up module)



Electrical / pneumatic central locking (optional)

There is a switch (J1) on the brain unit. Shift it to the "electrical lock" position, then press the button  or  to lock or unlock. (Fitted with electrical lock.)



Shift it to the "pneumatic lock" position, then press the button  or  to lock or unlock (Fitted with pneumatic lock).


Reminding

- ◆ The default setting is electrical locking.

Valet mode

Activate this mode when parking for car washing.

Switch ACC to ON position and press the button  for 3 seconds, a "Bi" sound from the remote, press the button  once in 5 seconds again, a "Bi" sound from the siren to remind to activate valet mode, the LED indicator will keep light on. In this mode, only central locking and trunk release function are available, the other functions are disable.

In valet mode, ACC is ON position, press the button  for 2 seconds to exit.

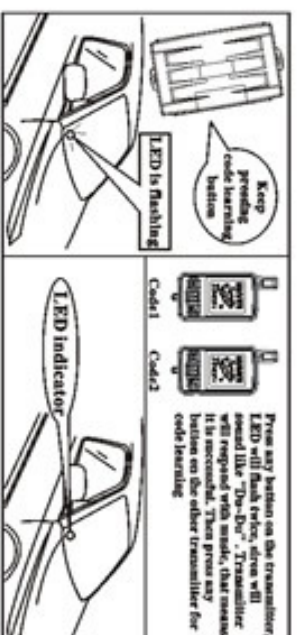
Music audible reminding

If no action by transmitter, it will remind the operator with music.

That means the transmitter is trying to connect the brain unit by wireless radio.

Code learning

Keep pressing the code learning button and LED indicator will light on, then press any button on the transmitter, the LED flashes twice, the siren sounds twice, the transmitter will response with music which means code learning is successful. Press any button on the other transmitter in 8 seconds, the LED flashes 4 times, the siren sounds 4 times, the transmitter will response with music which means code learning for the other transmitter is successful.



Function choosing on the brain unit

(Default setting is marked with "√")

J1	J2	J3
<input type="checkbox"/> Pneumatic lock	<input type="checkbox"/> With auto-arm	<input type="checkbox"/> Door opening with flash light
<input checked="" type="checkbox"/> Electrical lock	<input type="checkbox"/> Without auto-arm	<input type="checkbox"/> Door opening without flash light

J1 Pneumatic / electrical switch	<input checked="" type="checkbox"/> Electrical lock	(√)	<input checked="" type="checkbox"/> Pneumatic lock
J2 Auto-arm	<input type="checkbox"/> With auto-arm	(√)	<input type="checkbox"/> Without auto-arm
J3 Flash light for door opening	<input checked="" type="checkbox"/> Door opening with flash light	(√)	<input checked="" type="checkbox"/> Door opening without flash light

Technical data

Working frequency: 433-434MHz

Modulated way: FSK

Brain unit:

- ◆ Working voltage: 12V ±3V
- ◆ Static current: ≤10mA (with shock sensor)
- ◆ Siren volume: 110-125dB

Remote control:

- ◆ Working voltage: 1.1-1.6V
- ◆ Static current: ≤150uA

Trouble shooting

1. The siren will keep chirping after installation and remote cannot delete.

Solution:

- * Check the wire connection.
- * Check if the fuse of brain unit is burnt.
- * Check if the codes between transmitter and brain unit are matching. If not, it needs code learning to solve this problem.

2. After disarm, if open the car door without gleaming of Flash lights. Or open the car door by force without alarm under arm status.

Solution:

- * Check if the installation of sensing wire in car door is correct.
- * Check if sensing switch in car door is cut off or loosen.

3. In arm mode with sound and flashing alarm, the system will be triggered by slightly touch. Or it will be triggered to alarm when a heavy truck passing by the parking car with arm.

Solution:

- * Adjust the sensitivity of shock sensor to lower level. Or else, change the shock sensor with another brand new one.

4. The alarm system can be set by transmitter, whereas the central locking is unable to be set by transmitter.

Solution:

- * Check if the wire of central door locking is cut off or short circuit.
- * Check if the fuse inside the wire of central door locking is broken down.
- * Please refer to the installation instruction of central locking carefully.

5. The central locking system (fitted with pneumatic lock) is unable to work by transmitter when the car is armed or disarm by transmitter.

Solution:

- * Check if locking switch is on pneumatic locking position.
- * Check if wire of central locking is connected properly.

6. The siren is unable to work if it is triggered.

Solution:

- * Check if it is in silent arm mode.
- * Check the connection between brain unit and siren.

7. After arm setting is complete, the siren will sound loudly within 10 seconds. It will happen again even repeat arm setting.

Solution:

- * Check if shock sensor is working properly. And check the sensitivity of shock sensor.
- * Check if the connection of detecting wire between door and brake pad is correct.

8. The microwave sensor is unable to work in arm mode.

Solution:

- * Check if the button **A** or **WX** is pressed twice in disarm mode. The microwave sensor is not work if one of the buttons is pressed for one time.

9. Weak control, or it is controlled only in short range.

Solution:

- * Check if the brain unit is installed in a properly place (refer to the installation instruction in user manual).
- * Check the connection between the socket in the brain unit and the plug of antenna.
- * Check if there are high buildings or radio transmitter around. High frequency electromagnetic wave may affect the covering range of remote control.
- * Check the power of battery. Low power may result in weak control. Please recharge it in time.

Important notice

This system is working through wireless radio to monitor car Status. High building and severe weather may affect radio transmission.

Before installation, please do check the vehicle fitted with central lock is pneumatic locking or electrical locking, then set the correct position of jump wire in the brain unit (default setting is in electrical locking position). A skillful technician is recommended for installation.

Do not dip the transmitter into water or drop it on the ground as it is electronic components inside.

This security system is only functioning as warning, frightening theft and make it more difficult for stealing. The owner should keep caution for anytime even if this system can remind owner.

This manual contains all useful information for user's reference. It is recommended that before installation please read this user manual carefully.

Notes for transmitter

Do not knock or drop the transmitter heavily. Do not place it on the damp environment. Do not open and modify components inside to avoid any accident may occur.

Do not use this transmitter on a flying plane to avoid disturbing.

The covering range of transmitter may be affected by high frequency electric wave, high temperature above 60 centigrade or below 20 centigrade.

It should be recharged in time if weak power of battery.

Warranty card

Warranty Card

The quality of this product was strictly controlled before out of factory, which ensures its advanced performance under normal utilization. To protect consumer's right and keep our company's reputation, we guarantee that if any failure happened due to production and bad quality of component which is excluding any human damage, it will be repaired free of charge within one year from the date when you buy this product.

Vehicle No.:

Product No.:

Production date:

Purchased date:

Remarks:

Confirmed and sealed by dealer



TWO-WAY CAR ALARM SYSTEM

Remote engine start

Installation Diagram

- Note:**
1. The system is used for 12V battery with negative polarity ground.
 2. The product can tolerate the theft, and make it more difficult for stealing.
 3. Install the system by a professional people.
 4. Packed the wire harness away from high temperature and high voltage.
 5. Packed the wire in insulative material.

A. Product contents

1. The remote control, the main body, remote, shock sensor, LED light, siren, antenna, engine cut off relay, siren harness, adhesive sensor (optional).

B. Specification:

Working voltage: 12V in A
 Frequency: 433MHz
 Siren volume: 105-125dB

- C. Default setting (optional)**
- Electric central lock
 - Precision door lock
 - Flash light
 - Siren flash light
 - Anti-arm
 - Non anti-arm

D. Wiring diagram

