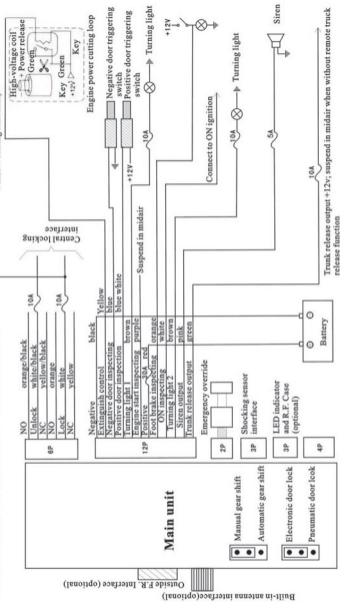


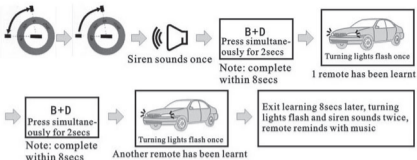
Installation wiring diagram for FM main unit (environment friendly)

!You must re-connect the power wire or turn ignition to ON position, then press override button for 2secs to validate the setting.

Connected to original windows-raising output
(Only compatible to the vehicle with key triggering
window-raising function.)



Built-in antenna interface (optional)
Outside F.R. Interface (optional)



14. Status checking (seeking vehicle)

Press D button for 0.5 seconds.

Reaction: turning light flashes three times, horn sounds three times, transferring present arming/disarming state, engine state and door state to transmitter; transmitter receives signal and message, showing car state on transmitter and making sound.

The function enables car owners to supervise car states and to seek cars by effective and useful means at night.

The operation can be used to pause warning with sound and light when receiving alarm.

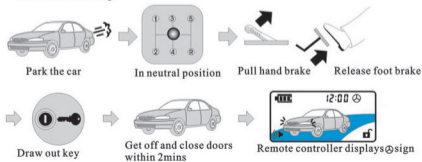


*15. Remote pre-engage engine start

In order to start up manual-shift-gear car by auto engine start function, driver must finish pre-engage engine start after parking the car. Otherwise, it cannot be started.

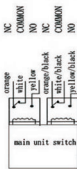
(1) steps of pre-engage engine start for manual-shift-gear cars:

- While parking the car, shift position should be in neutral.
- Pull hand brake, release foot-brake.
- Pull the key out; engine will remain start for 2 minutes.
- If get on or off the car during the 2 minutes, motor will automatically extinguish, remote pre-engage engine start succeeds, LCD displays ⊕. Remote engage start can be used for next driving.



Installation diagram for environment-friendly type central-locking

Internal working scheme for central-controlling unit



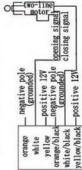
(Figure A)

1. If the car is originally equipped with central-locking system and the driver's door has been installed with electric motor, the wiring can be made based on the diagram below:



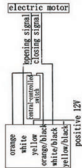
(Figure B positive trigger wiring diagram)

2. When the car is originally equipped with central-locking system and the driver's door is installed with only one switch, then a two wire actuator should be installed, the wiring can be made based on the diagram below:



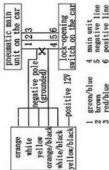
(Figure D wiring diagram for positive trigger installation)

3. When the car is originally equipped with central-locking system (including in the driver's door), the wiring can be made based on the diagram below:



(Figure E wiring diagram for positive electrical circuit installation)

4. When the car is originally equipped with pneumatic central-locking system, the wiring can be made based on the diagram below (when wiring as per this diagram, please cut off the jumper at the main unit, the central-controlling time is 4 seconds):




(Figure C negative trigger wiring diagram)

4. Reminder of arming setting

After the car is stopped and the car owner draws out the key and gets off for 10 seconds, the anti-theft system horn will make out three beeping sounds to indicate the car owner to start the anti-theft system. If the system is not armed within 50 seconds, turning light flashes twice and siren sounds twice and send present state to transmitter, reminding car owner to arm system and there will have another remind in 50 seconds.



5. Car owner finder

Car owner finder sensor is normally placed at the interior side of windshield to detect whether windshield is being stroke. Under arming state, system will send signals to transmitter to detect strikes on the windshield; meanwhile, LED flashes rapidly and siren sounds three times (none mute arming state), turning light flashes three times. Transmitter screen shows  with flashing and sounding for 4 seconds, afterwards, transmitter makes out sound every 3 seconds. Press any button can stop flashes and sounds.



6. Mute/ non-mute state shifting

Press C button for 2 seconds.

Reaction: turning light flashes once and siren sounds once, entering into non-mute state, transmitter displays with a siren on its screen. If turning light flashes once and siren makes no sound, entering into mute state, the siren on transmitter's screen disappears. Only turning light flashes and send alert to transmitter when main unit detects any warning or carry out operations.

Note: when detecting door opening or ignition warnings, siren will make sounds.



7. Emergency override

In case the remote controller is lost or damaged during normal use of this system, the car owner can press emergency override button to disarm. All the original functions previously set will be cancelled. At this time, one can only unlock or lock doors by keys.

Reaction: After operating successfully, it stays in disarming state. Turning light flashes twice and siren sounds twice.



Press the button for 2 secs

Turn ignition key for 5 times

Central-locking wiring General introduction

Today the automobile is experiencing a very rapid development. There are more than ten types of central-locking, largely the installation of central-controlled doorlocks may be completed by choosing the following types as the case required.

Installation

- A. The doorlock without power actuation. It is recommended to fit a set of central-locking, in order to facilitate the coordination with the anti-theft main unit. (See figure C), the applicable models: any old or economic models.
- B. The car is originally equipped with central-locking, but the driver's door contains only one which controls the other 3 doors, therefore, a motor must be fitted in the driver's door to drive the door latch lever and the switch. (See figure D) applicable models: FORD, MITSUBISHI, MAZDA, and NISSAN.
- C. The car is originally equipped with central-locking, and there is a seesaw switch near the instrument panel, which controls the other 3 locks, therefore, installation is possible so long as positive or negative trigger can be determined. (See figure B and C) applicable models: HONDA, TOYOTA, RENAULT, GM series, etc.
- D. The car is originally equipped with central-locking, and its feature is using pneumatic actuation. Doorlocks make continuous actions. There is control wire within the driver's door; this wire will change polarity when door is opening or closing. When installing, the only operation required is to cut off the optional pneumatic lock line of the main anti-theft unit. (See figure F). Applicable models: AUDI 100, BENZ, etc.
- E. The car is originally equipped with central locking. (See figure E). Applicable models: CHRYSLER, etc.
- F. For any other models that are not described here in detail, please use the method given in C., which will make the wiring easier.

Installation method

Remove the door trim first; find a suitable location near the manual switch lever within the door to secure the central-locking. Use the fittings provided to fix the lever of the manual switch and the central-locking motor together, in this way, the motor will actuate the doorlock lever.

Fault diagnosis and troubleshooting


Troubles	Causes of troubles	Solution
LCD does not display on the transmitter or display dimly.	Insufficient battery power supply, whether the inner electronic components are loose or damaged by humidity or violent strike.	Change new batteries. Contact local distributor to cope with the unsolved problems.
Transmitter can not control the car	The distance between the transmitter and car are too faraway; there are troubles with main unit or transmitter.	Operate transmitter by manual instruction or come to local distributor.

Warm tips:


- Auto engine start function means remote engine start or time engine start.
- Especially designed pre-engage engine start function avoids any manual gear shifting vehicles damages or collisions may cause by automatic engine start.
- Compatible for diesel vehicles that need pre-heating before engine start.
- Turbo engine protection function effectively prolongs the life-span of engine by keeping engine working for 2 more minutes after stopping the car.
- If the key to your car is originally equipped with anti-theft chips, then remote engine start function fails to work. (can not be installed with engine start type car alarm system)
- Before installation, please check whether the car to be installed is manual or automatic gear shifting types, whether the central locking is pneumatic or electric lock, what type the trigger is, then set wire switch correctly on main unit; operate and connect wires strictly as per the circuit diagram.
- When installing, check whether side-doors and central locking system of the car function properly. Otherwise, relative fittings need to be equipped with. In the process of using it, users are supposed to inspect side-door triggering switch and central locking frequently. Otherwise, anti-theft function of the system might be impacted.
- The actual transmission and returning distance might be influenced by large buildings, air electromagnetic waves and weather conditions, which is the normal features of radio waves.
- If the products to be found disabled, timely inspection and change should be proceeded to avoid unnecessary loss.

Functions of remote controller

1. Key board locking

Press A+C buttons for 2secs to lock/unlock the keyboard.
Reaction: when the keyboard is locked, remote displays lock sign  on the screen, unless you press D button for 0.5secs or press A+C buttons for 2secs, other buttons can not activate the keyboard; the lock sign  of the transmitter will disappear when keyboard locking is released.

• 2. Shocking function (optional)

Press A button for 2secs to set/release shocking function.
Reaction: remote displays shocking sign  on the screen. Instead of sounding, the remote will shock after receiving alarms.

Note: This function is only available for the remote controllers with the feature. If you don't press any button after the remote receives alarms for 3secs. The reminding sound every 3secs will still be remained.

3. Remote clock function

The transmitter has the function as a clock and the time can be adjusted. Press A+D button for 2 seconds to enter into time adjust. The usages for each button are:

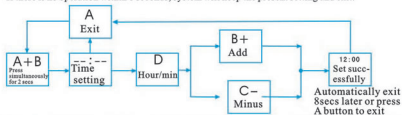
A button: save present setting and exit program

B button: each press adds one to hour or minute number

C button: each press minuses one to hour or minute number

D button: shift cursor between minute and hour

If there is no operation within 8 seconds, system will keep the present setting and exit.



Parts list

1. Main microcomputer unit	1 set
2. Remote controller	2 pcs
3. Warning horn	1 pc
4. 6P wiring harness	1 set
5. 10P wiring harness	1 set
6. Shock sensor	1 pc
7. receiving antenna	1 set
8. emergency override button	1 pc
9. Operation manual	1 copy
10. relay	1 set
*11. relays for engine start type	4 sets
*12. 10p harness for engine start type	1 set
*13. 12p harness for engine start type	1 set

Specification

1. Main anti-theft unit

Working voltage: DC 12 V \pm 3V

Static current: 20 mA

Working frequency: 433-447MHZ

Output current: turning light 5 A x 4; horn 10 A; central-door lock 10A

2. Remote controller

Working voltage: DC 1.5 V

Average static current: 0 mA

Working frequency: 433 MHZ

Battery: AAA/1.5A

3. Shock sensor

Working voltage: DC 12 V \pm 3V

Static current: 1 mA

Warranty

The warranty terms:

1. The warranty remains valid for one year from the purchasing date.
2. Within the warranty period, all manufacturing defects can be repaired by our service agents with the support of this Warranty and the purchase invoice.
3. Repair of damages resulting from unjustified causes will subject to a charge at actual cost level.

Two-way Car Alarm System

1. Function instructions

- Environment-friendly type car alarm system
- Start-up type car alarm system
- Ultra low temperature car alarm system

2 * Special functional options

- *Pre-engage start function
- *Remote window raising function
- *Cooling turbo timer function
- *Time display function
- *Shocking function

Note: Means the selected function is available.

* Means the optional functions.

Please remember the following notes before using this product

Special functions instruction:

1. The system is an interactive visual digital car alarm one which is compatible for manual/automatic-gear-shift cars with 12V battery supply.
2. As an aid equipment of car alarm system, the system can accurately send and receive signals. It can also display car status and warnings distantly.
3. When operated by remote controller, it takes around 3secs for command return, which characterizes the two-way alarm system. Therefore, there must have some time intervals among different operations. Otherwise, accuracy of the function will be affected.
4. Remote controller uses 1.5v high capacity alkaline batteries. When LCD indicates insufficient power supply, please change new batteries. The life span of batteries mainly depends on batteries themselves and the frequency of using the remote controller. In the cases the remote controller is lack of power supply, damaged or missing, please handle the situation referring to emergency override.
5. Please make sure wires connection and switch setting correct and reliable during main unit installation.
6. Never expose remote controller to humidity, water or violent sunshine. Make sure that no water soaks in the main unit while cleaning your car.
7. All the products have experienced rigid and strict examinations before they enter into market. Functions and lifetime of the system can be fully guaranteed under working conditions as below: remote controller: $-20^{\circ}\text{C} \sim +60^{\circ}\text{C}$; main unit: $-50^{\circ}\text{C} \sim +85^{\circ}\text{C}$.
8. The company reserves the right to have further change and improvement of the products without prior notice.