

Super long distance PLL-FSK technology more than 3000 meters

3D digital shock sensor, which detect six directions even the tilt of the car

Detect and Adjust the shock level at any time

Tachless or Tachness for remote starter (Option)

Smooth operation between  $-40^{\circ}\text{C}$ ~ $85^{\circ}\text{C}$

Battery capability weaken arming

Auto-detect neutral position of manual car when remote starting

Three kinds of starting mode: Remote Engine Start Mode, Remote Start Timer Mode and Temperature Start Mode

The spot of temperature start can be adjusted by remote control up to user's requirement

TWO-WAY LCD VEHICLE SECURITY AND ENGINE STARTER SYSTEM

## TWO-WAY LCD VEHICLE SECURITY AND ENGINE STARTER SYSTEM





# X6 Series

**MANUAL FOR OPERATION AND INSTALLATION**

please read this manual carefully before operating and installing the machine

Thank You for Purchasing X6 Series Long-Range Two Way Vehicle Security System with 3D Sensor

To meet the increasing demands of car lovers, our company is dedicated to researching and developing hi-tech products, which has developed into a company, specialized in developing products of PLL-FSK.

- 1) Please read this manual carefully before using this car alarm system so that you'll take the full advantage of every marvelous features provided by the system.
- 2) The local authorized dealer is responsible for the after-sale service and warranty.
- 3) The system requires no specific maintenance. Your remote control is powered by a small **1.5volt LR03AAA** alkaline battery. When the battery weakens, operat range will be shortened. When the battery icon " " turns to the icon " ", please replace the battery.
- 4) This device complies with part 15 of FCC rules. Operation is subject to the following two conditions: ① This device may not cause harmful interference, and ② This device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.
- 5) Due to the complexity of this system, it must be installed by an authorized dealer only.
- 6) All the modules and interconnection cables are inaccessible to the end user except the remote control, valet switch, the antenna and its signal cables.

## CONTENT

I Product Description.....	(4)
II Setting of Remote Control	
1. LCD Icon Description .....	(5)
2. The Button Description.....	(6)
3. Keylock Function of Remote Control .....	(7)
4. The Options of Remote Control Through Menu Setting	
A. Backlight Setting of Remote Control.....	(7)
B. Sound or Vibration of Remote Control .....	(7)
C. The choice of Centigrade or Fahrenheit .....	(8)
D. Correction of Real-time Clock.....	(8)
E. Silent Arming Mode .....	(8)
F. Setting the Shock Sensor Level .....	(8)
5. Battery Condition Instruction and the Replacement Method .....	(9)
III Set and Control the vehicle by Remote Control	
1. Standard Arming Mode.....	(10)
2. Multi-Level Security Arming .....	(11)
3. Panic Mode.....	(11)
4. Anti-robbery .....	(12)
5. Disarming .....	(12)
6. Trunk Release .....	(12)
7. Query Function.....	(13)
8. Turbo/Short Run Mode .....	(13)
9. Auxiliary Output .....	(13)
10. Valet Mode.....	(14)
IV Auto-Arm/Disarm Mode	
1. Description.....	(14)
2. Adjust The Distance of The Auto-Arm/Disarm .....	(15)
3. On/Off The Arm/Disarm .....	(16)
V Start by Remote Control	
1. Time of Motor Crank .....	(17)
2. Remote Engine Start.....	(17)
3. Remote Start Timer Mode.....	(18)
4. Temperature Starte Mode .....	(18)

## VI Assistant Functions

1. Auto-door lock/unlock..... (19)
2. Windows Roll up ..... (19)
3. Dome Light ..... (19)
4. Passive Arming and Passive Locking ..... (19)
5. Automatic Re-arming ..... (19)
6. Door Status Reminder..... (19)
7. Status Memory ..... (20)
8. Smart LED Indicator..... (20)
9. Code Hopping ..... (20)
10. The Battery Capability Shortage Arming ..... (20)

## VII Showing the alarm status of car alarm system

1. Impact..... (20)
2. Slope..... (20)
3. Door ..... (21)
4. Hood ..... (21)
5. Trunk ..... (21)
6. Regional Sensor ..... (21)
7. IGN..... (21)

## VIII Brain Unit Program

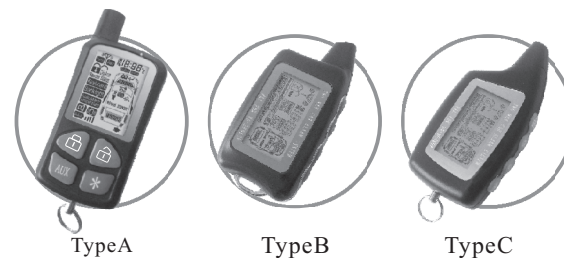
1. Code Memorizing of Remote Control ..... (22)
2. Disarm the System Without Remote Control..... (22)
3. Checklist of Options ..... (23)
4. Program Features ..... (24)

## IX The Installation of the Whole Unit

1. Wires Description ..... (25)
  - (1) Brain Unit Harness Description ..... (25)
  - (2) Remote Starter Module Harness Description ..... (27)
  - (3) Peripheral Plug-in Connectors ..... (28)
2. Door Lock Wiring Diagram ..... (28)
3. System Installation ..... (31)
4. Installation of Transceiver..... (31)
5. Quick Reference Guide for System wiring ..... (32)
6. The Installation of Remote Starter ..... (33)

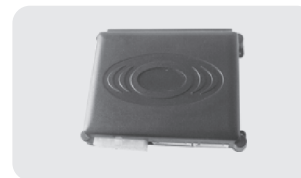
## X FAQ ..... (34)

## I Product Description



Remote Control:

Based on low power PLL-FSK technology.



Brain Unit



Remote Starting Module:  
Gear checking function for manual Car, guaranteeing the security.



Transceiver:

1. Internal 3D sensor
2. Temperature compensation
3. Adopt PLL-FSK technology at 433.92MHz



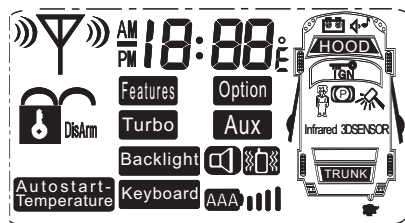
Valet Switch:

Valet Switch is for disarming the alarm system by force, parameter program and the code matching between remote control and brain unit.

## TABLE OF PRESS-KEY FUNCTION

### II Setting of Remote Control

#### 1. LCD Icon Description



TypeB / C

#### Notes:

1. The LCD screen of typeB and typeC are the same.
2. The contents of the LCD screen of typeA, typeB and typeC are the same.
3. The instruction below follows the typeB

Icons	Icon Descriptions
	Receive State of remote control
	Transmit State of remote control
	Alarm of the car slope
	Battery of car(When it appears, showing the shortage of battery)
	Mute of car alarm system(When it disappears, showing the mute status)
	Hood (When it appears, showing the hood opened)
	IGN State of car
	Alarm of shock
	Door
	Hand brake
	Region Sensor(Microwave Sensor or Ultrasonic Sensor)
	Trunk (When it appears, showing the trunk opened)
	Remote starts successfully or remote start timer mode ON
	Arm
	Disarm
	Turbo mode
	Auto-start by assigned temperature
	Backlight of remote control
	Keylock of remote control
	Programmable auxiliary output
	Battery of remote control
	The sound of remote control
	The vibration of remote control
	Multifunctional Display
	Morning
	Afternoon
	Time

## TABLE OF BUTTONS CONFIGURATION

Icons	Icon Descriptions
	Centigrade
	Fahrenheit
	Temperature
	Features choice from 1 to 18
	Options choice from 1 to 3
	Shock sensor level from 1 to 8
	Distance of auto arm/disarm
	The level of Multi-level Security Arming from 2 to 5
	Time of Motor Crank (0. 6sec, 0. 9sec, 1. 2sec, 1. 5sec, 1. 8sec, 2. 1sec, 2. 4sec, 2. 7sec)

#### 2. The Button Description

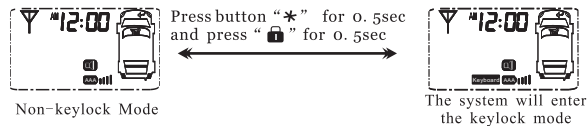
Button	Duration	Function	Condition
	0.5sec	Arm and Lock	Non-driving
	2.0sec	Panic Mode	
	0.5 sec	Disarm and Unlock	
	2.0sec	Trunk Release	Any time
	0.5 sec	Remote Query	
	2.0sec	Auxiliary Channel 5 Output	
	0.5 sec	Remote Start Timer Mode ON/OFF	Non-driving, Armed
	0.5 sec	Remote Start ON/OFF	
	0.5 sec	Lock	Driving
	2.0sec	Anti-robbery	
	0.5 sec	Unlock	
	0.5 sec	Turbo Mode ON/OFF	Any time
	2.0sec	To Activate Set-up Menu	
	0.5 sec	Keylock ON/OFF	Menu Activated
	0.5 sec	The digital Increment	
	0.5 sec	Function Confirm	
	0.5 sec	Function Cancel	
	0.5 sec	Function Shift	

Note: "+" means press the buttons in sequence within 2 seconds.

## FEATURES DESCRIPTION

### 3. Keylock Function of Remote Control

Key lock function is for preventing triggers by mistake, the keyboard is inactivated when you lock the key.



Note: When the icon "🔒" display, showing the system enter the keylock mode.

### 4. The Options of Remote Control through Menu Setting

The setting step is as follows:

**Step1:** Press button "\*" for 2sec, at this time, a certain icon is flashing, activate the Menu

**Step2:** Press button "\*" for 0.5sec, till the required icon flashes

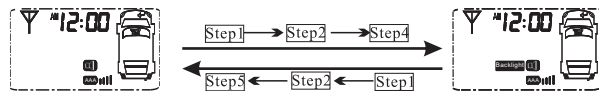
**Step3:** Press button "🔒" for 0.5sec, adjust the digit (for Real-time Clock, shock level setting, time of remote start, the setting of temperature start, options and features)

**Step4:** Press button "🔒" for 0.5sec, set the mode

**Step5:** Press button "ALX" for 0.5sec, cancel the mode

#### A. Backlight Setting of Remote Control

Backlight Off Mode is for saving power.

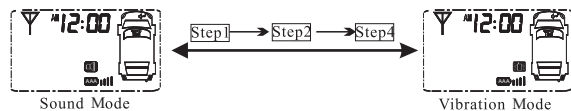


Backlight Off Mode

Backlight On Mode

Note: When the icon "🔆" display, showing the Backlight On Mode;  
When the icon "🔆" disappear, showing the Backlight Off Mode.

#### B. Sound or Vibration of remote control



Sound Mode

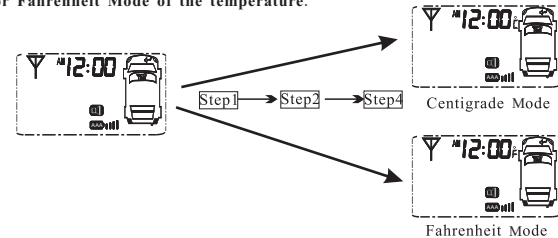
Vibration Mode

Note: When the icon "🔊" display, showing the Sound On Mode;  
When the icon "🔊" display, showing the Vibration On Mode.  
You can choose either the Sound Mode or the Vibration Mode.

## FEATURES DESCRIPTION

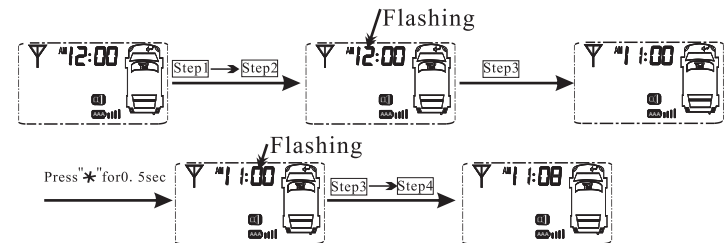
### C. The Choice of Centigrade OR Fahrenheit

You can query the temperature inside the car, and choose either Centigrade Mode or Fahrenheit Mode of the temperature.



Note: When the icon "°C" display, showing the Centigrade Mode;  
When the icon "°F" display, showing the Fahrenheit Mode.

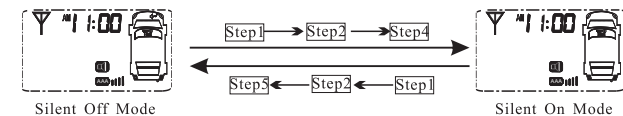
### D. Correction of Real-time Clock (For example, set) "1:08"



(Note: The counter of the seconds of RTC is cleared at this time)

### E. Silent Arming Mode

None chirp from the horn under the Silent On Mode, when the status is arming or disarming.



Notes: When the icon "🔇" display, showing the Silent Off Mode;  
When the icon "🔇" disappear, showing the Silent On Mode.

### F. Setting the Shock Sensor Level (For example, set the "L5" Level)

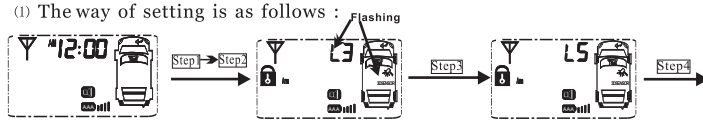
The product use 3D digital shock sensor, which detect six directions even the tilt of the car. User can set the shock level to meet different need, and can query the shock level on the LCD timely.

## FEATURES DESCRIPTION

Note:

1. The level of tilt and vibration are the same.
2. There are 8 levels sensitivity on the shock sensor, the first level is the most sensitive and the eighth level is the slowest, when you set the first level the slightest vibration would lead to alarm.
3. The third level is default setting.
4. Users can set the shock sensor level by remote control according to different surrounding

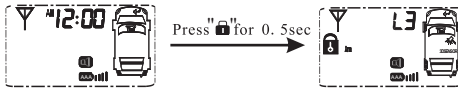
(1) The way of setting is as follows:



Note: When the icon "L3", "L4" and "L5" flash, showing the setting of shock sensor.

If setting the shock level successfully, Remote Control will set off beeping warnings or vibration signal.

(2) The way of query the shock sensor level is as follows:



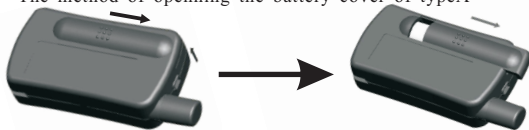
Note: When normally lock the car, press "L" once, showing the shock sensor level; If showing the icon "AL3", the system enter the Multi-level Security Mode.

## 5. Battery Condition Instruction and the Replacement Method

- (1) X6 Series Remote Control uses the alkalinity environmental protection battery, please select the request battery, otherwise possibly cause the battery service life to be short or the work of Remote Control is not normal.
- (2) X6 Series uses intellective power management, the battery can be used for 3-8 month under the normal work condition.
- (3) There are 4 levels "AAA", "AA", "A", "B" for electric power indicator on Remote Control. When display the icon "AAA", the work distance will be decreased; when display the battery icon "B", please replace the battery.
- (4) The user may replace the battery as necessary, but cause the information lost possibly, if wants to maintain the information, please do according to below steps:

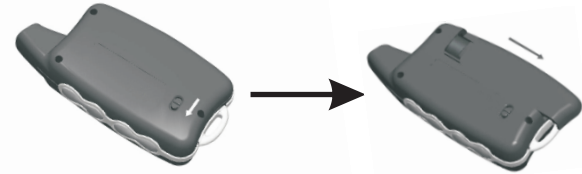
- ① Prepare for suitable battery
- ② Open the battery cover

The method of opening the battery cover of typeA



## FEATURES DESCRIPTION

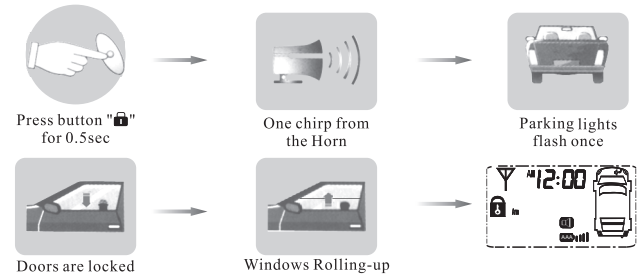
The method of opening the battery cover of typeB/C:



- ③ The icon "L" flashes 1 sec, go out 3sec, please replace the battery within the go out period, at this time, the information will be stored.
- ④ Remote Control do not set off sounds or vibration if the information is stored.

## III Set and Control the Vehicle by Remote Control

### 1. Standard Arming Mode



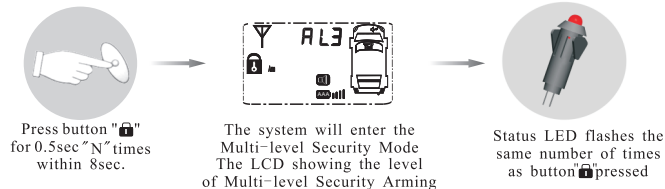
- ① When driving, press "L" for 0.5sec, the door is locked.
- ② When Trunk or Hood was not closed, the system can not arm successfully, at this time, three chirps from the vehicle and the Remote Control, the parking lights flash three times.
- ③ To the Ford vehicle and the vehicle with delayed dome light function, when the door is closed, the signal possibly delay arriving, at this time, the system can automatically delay for 25sec, exam door signal. The system also can remind you of arming the system if you forgot to do so. The system will give out three siren chips with light flashes 25sec after you turn off the ignition key and close all the doors. After hearing the audible reminder, you should press button "L" to arm and lock.  
If you select to install a region sensor, such as a microwave sensor, the system can react to any intrusions into the field with the full triggered sequence.

Note: This system supplies a windows rolling-up feature. Only last time press "L", then press "L" can rolling-up successfully. If the car with window rolling-up module, you do not need set it in Options. If the car need not window rolling-up module, then your car need a starter module, and the 15th of FeaturesP23 need be set on status.

## FEATURES DESCRIPTION

### 2. Multi-Level Security Arming

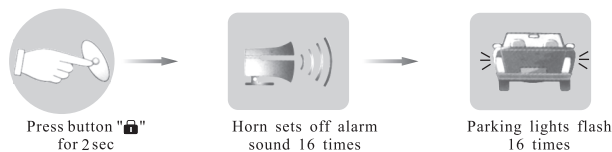
The Setting of Multi-Level Security Arming



Press button "🔒" times within 8sec	Multi-Level security arming mode	LED blink times	Siren chirp times
Once	All zones are active	One time	One time
Twice	The optional zone is bypassed	Two times	Two times
Third times	The shock sensor zone is bypassed	Three times	Three times
Fourth times	The shock sensor zone and optional zone are bypassed	Four times	Four times
Fifth times	The shock sensor zone, optional zone, hood pin switch input and trunk pin switch input are bypassed	Five times	Five times

Note: Multi-Level Security Arming only applies to a single arming cycle. Once the system is disarmed and then re-armed, all the zones (inputs) will be active again.

### 3. Panic Mode (Search for vehicle)

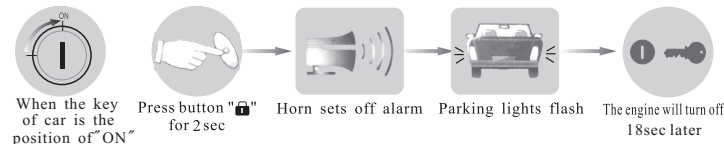


Two ways to stop Panic Mode at any time:

- ① Press button "🔒" for 2sec.
- ② Press button "🔒" for 0.5sec, at this time disarm and unlock.

## FEATURES DESCRIPTION

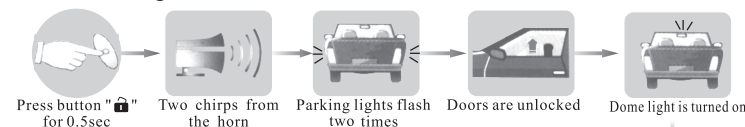
### 4. Anti-robbery



Two ways to stop Anti-robbery at any time:

- ① Press button "🔒" for 2sec.
- ② Press button "🔒" for 0.5sec, at this time disarm and unlock.

### 5. Disarming



(1) Tamper Alert: if you hear four additional horn chirps and light flashes, please check your car to see whether the security system was triggered in your absence.

(2) Security Rearming (Programmable): The system will re-enter into last arming mode automatically if no door is opened or ignition is still off within 35s after disarmed by remote. This feature is to protect your car from theft even when your car is disarmed by accident.

(3) Central Lock Automation (Programmable): This function enables your vehicle to automatically lock the doors upon releasing brake pedal after ignition is on and unlock the doors upon key off. During driving, you may also press button "🔒" to lock or button "🔓" to unlock without activating security mode.

(4) Automatic Dome Light: The system will turn on the dome light every time you disarm your system. The dome light will go out 20 sec later or 5sec later when open the door or immediately go out after you turn the ignition on.

(5) Passive Arming and Passive Locking (Programmable) The system also can be programmed to arm itself automatically (call passive arming). Once passive arming is enable, the system will arm itself in 40 sec every time after the system "sees" you turn ignition off and leave your car by opening and closing the doors. If passive locking function is enable, the system will lock doors at the same time (programmable, call passive locking) when entering passive arming.

Warning: The key of your car should take with you and the children should not be inside of the car in order to prevent inconvenience.

### 6. Trunk Release



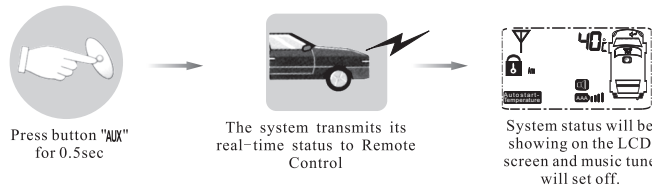
## FEATURES DESCRIPTION

Note:①When the trunk is released, the default is diarm.

②You may select arm when trunk released by options. (This function is suitable for cars with electric trunk opener), see the 12th item of Checklist of Options, P23.

③When the trunk is open, the Remote Control display the icon "TRUNK".

### 7. Query Function

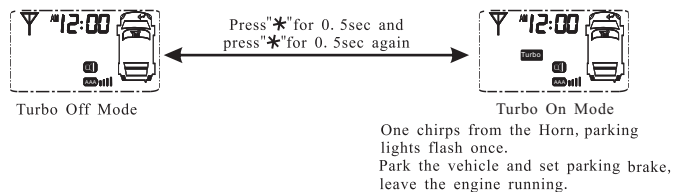


User can query below status of car timely:

①Arm/Diarm ②Door Open/Close ③Hood Open/Close ④Trunk Open/Close ⑤IGN On/Off ⑥Handbrake Up/Down ⑦The temperature of the car

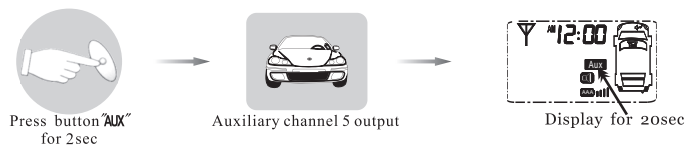
### 8. Turbo/Short Run Mode

#### (1) Set or Cancel Turbo Mode



- (2) Once you activate the Turbo/Short Run Mode, the system will remain this mode always. If you don't want this mode any more, press button \* + \* again to cancel it anytime.
- (3) The running time choice of Turbo Mode sees the 18th item, P23
- (4) Pull handbrake up when fire on, carrying out Turbo Mode, manual vehicle must be in neutral position, and auto-vehicle must be in park position.

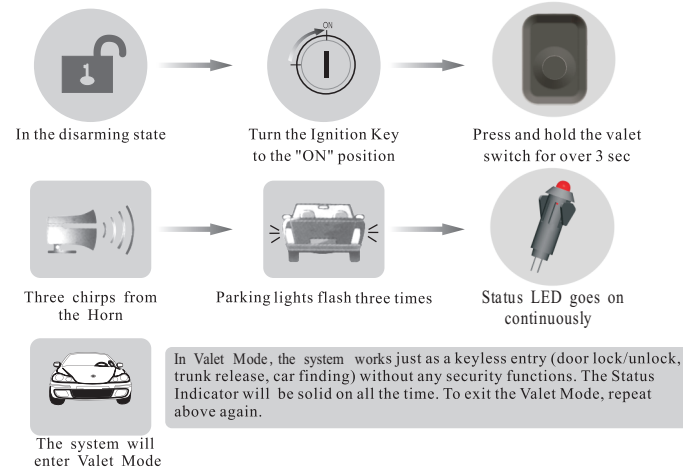
### 9. Auxiliary Output (Programmable)



## FEATURES DESCRIPTION

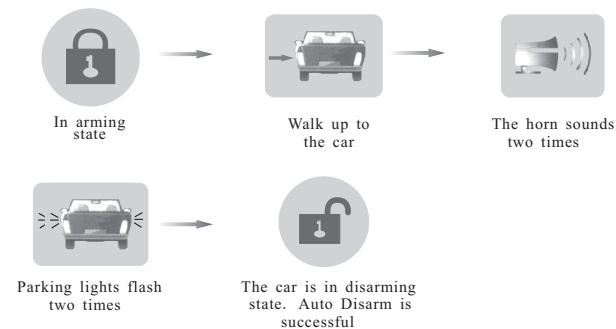
Auxiliary channel 5 output is programmed to output pulse of 0.8 sec, 15 sec or latched signal, reset with ignition. The running time choice of it sees the 17th item P23

### 10. Valet Mode (For washing or repairing the car)



## IV Auto-Arm/Disarm Mode

### 1. Description

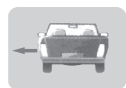




## FEATURES DESCRIPTION



In disarming State



Walk away from the car



The horn sound once



Parking lights flash once



The car is in arming state. Auto Arm is successful

### 2. Adjust The Distance of The Auto Arm/Disarm



Press button "\*" for 2 sec



Repeatedly press button "\*" for 0.5 sec till the icon "L8" is flashed



Press button " " and select the required options



Press button " " to confirm



Chirp from the horn



Parking lights flash



Press button "AUX" exiting the system

Note: There are eight levels for Auto Arm/Disarm distance. Select L1 express furthest Auto Arm/Disarm distance. Select L8 express shortest Auto Arm/Disarm distance.

## FEATURES DESCRIPTION

### 3. On/Off The Arm/Disarm



Press button "\*" for 2 sec



Repeatedly press button "\*" for 0.5 sec till the icon "L8" flashes



Press button " " select the required feature "16"



Press button "\*" for 0.5 sec, the icon "L8" flashes



Press button " " select the required option



Press button " " to confirm



Chirp from the horn



Parking lights flash



Press button "AUX" exiting the system

Note: If you select the options "02" to cancel the function of the Auto Arm/Disarm, and then select the options "01" to enable the function of the Auto Arm/Disarm.

## V Start by Remote Control (Must need Remote Starter)

The product has the features as below:

- There are three ways for Remote Starting Mode: Remote Engine Start, Remote Start Timer Mode and Temperature Start Mode.
- There are two modes for Remote Starting: Tachless and Tachness.
  - It will be easier to install at Tachless Mode.
  - There are two advantages to use Tachness Mode:
    - Detect the abnormality of engine running;
    - To the manual car, the tach wire input must be connected to tachometer for safety, otherwise, it can't start the car.
- The motor crank time can be set by the remote control.
 

Note:

  - The default of motor crank time is 12sec, user can setup the motor crank time, according to different vehicle and condition.
- The state of auto-vehicle must be in park position and pull up the hand brake for safety. If the hand brake wire is grounded, the default of vehicle is in park position and the vehicle can be started by remote control. The wiring of remote starter module, please see P27.
- The vehicle can start only in the arming state.
- When the vehicle is running during remote start operation, if it detected the abnormality engine, the system will monitor the vehicle and will automatically shut down the engine.
- If the auto-vehicle use Tachless Mode, it has not the function4 as above.

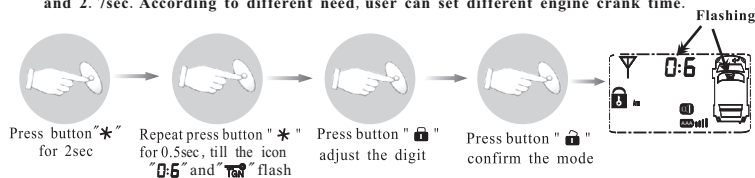
## FEATURES DESCRIPTION

△ 6. To manual car, the tach wire must be connected to tachometer, otherwise, it cannot start.  
Set the manual car, please find the setting as below.

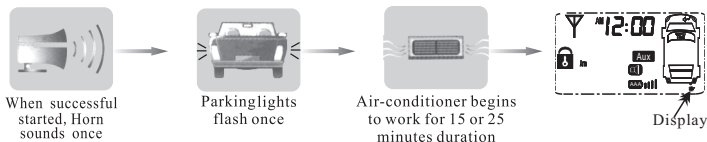
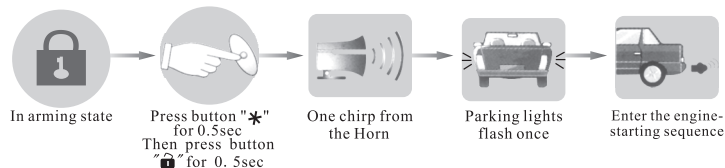
- (1) Set the manual car in Checklist of Options, the setting sees P23;
- (2) The requirement for parking the vehicle:
  - a. Set the parking brake and pull up the hand brake.
  - b. Turn off the ignition key, the engine will keep running
  - c. Exit and secure the vehicle, press for 0.5sec to arm, the vehicle turn off at once if in turo mode, it will turn off when finishing the turbo time.
7. If the key of car is the position of "ON", the vehicle cannot start.
8. The vehicle with a encryption chip key need a bypass module

### 1. Time of Motor Crank

There are 8 options to select: 0.6sec, 0.9sec, 1.2sec, 1.5sec, 1.8sec, 2.1sec, 2.4sec and 2.7sec. According to different need, user can set different engine crank time.



### 2. Remote Engine Start



- Note:**
1. The parking lights will flash every 30 sec during the engine is running
  2. Never start the vehicle if it is not in either PARK or NEUTRAL position and never forget to activate the parking brake before remote start.
  3. In gasoline vehicles, the engine will wait 8 sec to start after the parking lights flash. In diesel vehicles, the engine will start when the WAIT-TO-START indicator on the vehicle's dash goes out.
  4. It is unsafe to remote start the vehicle in a garage or other enclosed area. Breathing the exhaust from the vehicle is hazardous to your health.

#### How to Drive Your Remote Started Vehicle:

- 1) Press button "0". 5sec to unlock and disarm and open the door.
- 2) Insert the ignition key and turn it to the "ON" (not the "START") position
- 3) Press the brake pedal.

## FEATURES DESCRIPTION

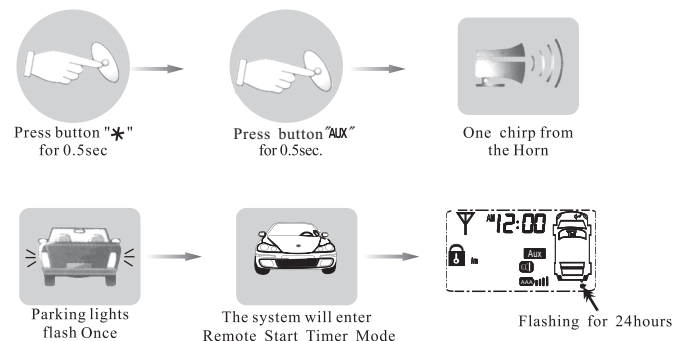
**Note:** If the brake pedal is released before the key is in the "ON" position, the engine will shut down

#### Remote shut down:

While the vehicle is running during remote start operation, the system will monitor the vehicle and will automatically shut down the engine if the system receives any of the following shut-down inputs:

- 1) The brake pedal is released.
- 2) The hood or the door or the trunk alarm happened.
- 3) The pre-programmed running time (15 or 25 min) has elapsed.
- 4) Press button "\*" and button "Lock" again.
- 5) The tach signal disappear.

### 3. Remote Start Timer Mode

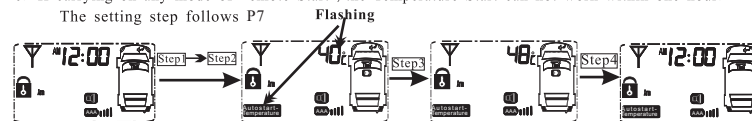


1. In this mode, the system will start the engine every 3 hours, for a maximum of nine cycles. The engine will run for the programmed run time and then shut down to keep engine warm in the cold weather.
2. The remote start command "\*" + "Lock" can shut down the engine in Remote Start Timer Mode, but the system will remain in the Remote Start Timer Mode.
3. To exit Remote Start Timer Mode, press button "\*" + "AUX" again.

### 4. Temperature Start Mode

#### Note:

- a. There are two ways for Temperature Starting: Higher than Temperature (40°C or 74°F) and Lower than Temperature (-20°C or 14°F).
- b. Users must use Remote Control to cancel or change the temperature once you have set the Temperature Start.
- c. If carrying on any mode of Remote Start, the Temperature Start can not work within one hour. The setting step follows P7



## FEATURES DESCRIPTION

Notes: If the temperature and the actual temperature exists a little error, users can use the following skills to adjust:

- Temperature Correction: the actual temperature, high temperature or low temperature reaches the starting points you want, please press the button "AUX", at this time the remote control will be displayed the actual temperature inside the car, users can take the temperature as you need to set the starting temperature.
- If users do not need Low Temperature or High Temperature Start, the setting P7 step follows step1→ step2→step5.

## VI Assistant Functions

### 1. Auto-door lock/unlock (Programmable)

This function enables your vehicle to automatically lock the doors upon releasing brake pedal after ignition is on and unlock the doors upon key off. During driving, you may also press button "L" to lock or press button "R" to unlock without activating security mode.

### 2. Windows Roll up

In the disarming status, press button "W" windows rolling up

### 3. Dome Light

The system will turn on the dome light every time you disarm your system. The dome light will go out 20sec later or 5sec later when open the door, then close the door or immediately go out after you turn the ignition on.

### 4. Passive Arming and Passive Locking(Programmable)

The system also can be programmed to arm itself automatically (call passive arming). Once passive arming is enable, the system will arm itself and lock the door(passive locking) in 40 sec every time after the system " sees " you turn ignition off and leave your car by opening and closing the doors.

### 5. Automatic Re-arming (Programmable)

The system will re-enter into last arming mode automatically if no door is opened or ignition is still off within 35sec after disarmed by remote. This feature is to protect your car from theft even when your car is disarmed by accident.

### 6. Door Status Reminder (Programmable)

The lights will flash to inform you that some door is not closed well. When temperately parking, such flashing may warn coming cars to take care. It is suggested to cancel this feature when your car has a dome light delay.

## FEATURES DESCRIPTION

### 7. Status Memory

This system may remember the status before power off so as to restore the former working status such as arm mode disarm mode and Valet mode, even if the power supply is destroyed.

### 8. Smart LED Indicator

In arming status: LED flashes the same number as the times of pressing button "M" within 8 sec. In turbo state: LED stays solid for 2 sec, then pause for 2 sec. In valet mode: LED stays solid Alarm triggered: LED flashes for 0.5 sec, then pause for 0.5 sec.

### 9. Code Hopping

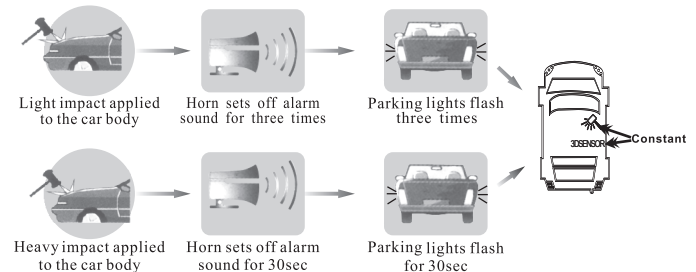
This system uses code hopping technology to increase the security of the system. In case the remote falls out of sync with the main control unit, it will fail to disarm the system. To re-sync the system, please remove the battery of the remote, wait for 10 seconds and re-power the remote again, and then press button "M", the alarm will automatically re-sync and respond to the remotes normally.

### 10. The Battery Capability Shortage Arming

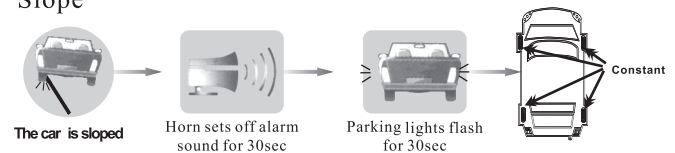
When ignition, if the battery capability is lower, alarm once, the icon "B" display, press any key, the icon "B" disappear.

## VII Showing the alarm status of car alarm system

### 1. Impact



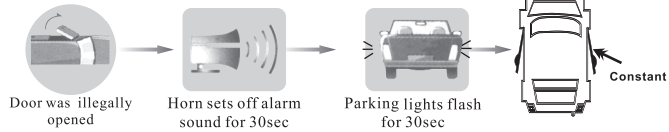
### 2. Slope



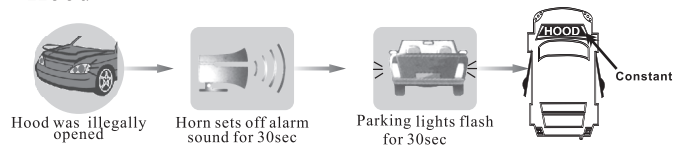
Note: If user has not select the 3D sensor type there is no this alarm.

## FEATURES DESCRIPTION

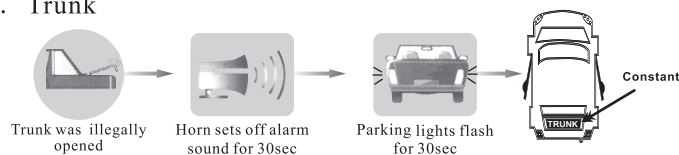
### 3. Door



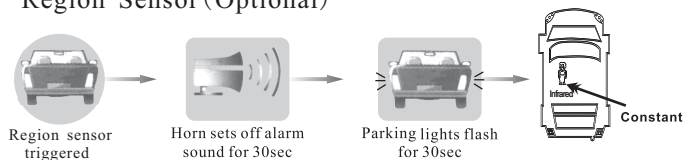
### 4. Hood



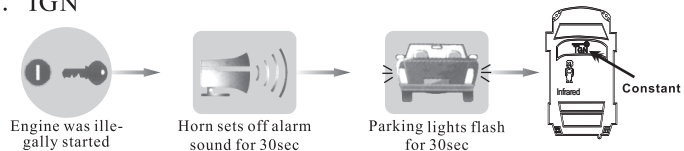
### 5. Trunk



### 6. Region Sensor (Optional)



### 7. IGN



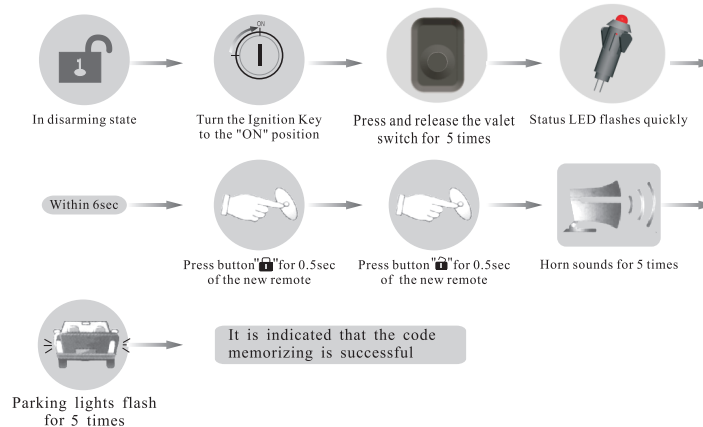
#### Notes:

- a: When alarm was triggered, engine was immobilized automatically.
- b: To shut off the alarm sound from the vehicle, press button and the vehicle is still in the arming state.
- c: When the Remote Control successfully received the triggered alarming status, it sets off warning beeps every 2min. To release the warning beeping, press any button of the Remote Control.
- d: You may select a region sensor, such as microwave sensor or ultrasonic sensor, your system can react to any intrusions into this field with the full triggered sequence.

## FEATURES DESCRIPTION

## VIII Brain Unit Program

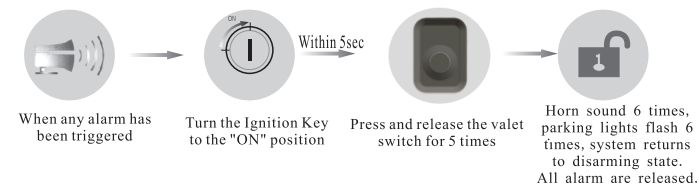
### 1. Code Memorizing of Remote Control



#### Note:

- a: The Remote Control's code has been memorized in the factory, you do not need to memorize it unless you lose the Remote Control and obtain a new one or you want to buy one more Remote.
- b: The system can memorize at most two Remote Controls.

### 2. Disarm the System Without Remote Control



## FEATURES DESCRIPTION

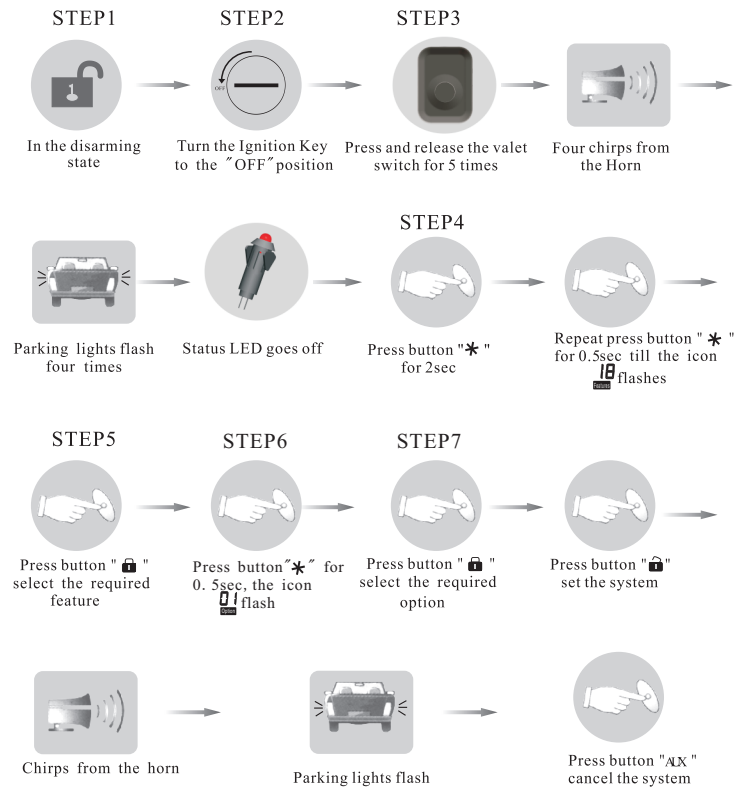
### 3. Checklist of Options

Features	Options1 (default)	Option2	Option3	Setting way
1. Transmission type of car	Automatically	Manual		Carry on above step1-step7
2. Power Motor/Vacuum door locking system	Power motor (0.8sec pulse)	Vacuum (3.5sec pulse)		
3. Single/double pulse unlock	Single	Double		
4. Gasoline/diesel engine	Gasoline	Diesel		
5. Glow plug polarity of diesel	Negative	Positive		
6. ING2 fire off or on when motor crank	ON	OFF		
7. Automatic Re-arming	ON	OFF		
8. Auto door lock/unlock when ignition is on	ON	OFF		Carry on step4-step7
9. Parking lights flash when door opened in disarm mode	ON	OFF		
10. Passive Arming	OFF	ON		
11. Passive Locking in passive arming mode	OFF	ON		
12. Disarm when trunk release	ON	OFF		
13. Parking lights Flashing/Constant	Flashing	Constant		
14. Remote Engine Start run time	15min	25min		
15. Windows roll up connect electrical power	OFF	ON		
16. Auto Arm/Disarm function	ON	OFF		
17. Auxiliary Channel 5 Output	0.8sec pulse	15sec pulse	Latched Output	
18. Turbo/Short Run run time	1min	2min	3min	

Note: ①According to different vehicle, the features (1-6) be set in the car according to step1-step7, to make sure it can not be triggered by remote control.  
 ②The features (7-17) can be set by the remote control to make more convenience for user.  
 ③If no programming activity occurs within a 20sec period, the Features Programming Mode will expire.

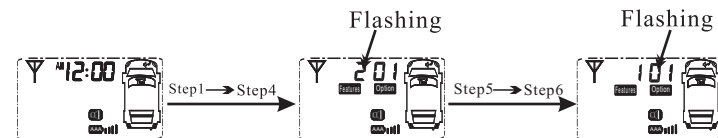
## FEATURES DESCRIPTION

### 4. Program Features

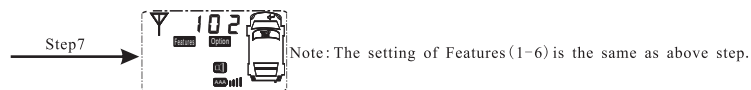


Example:

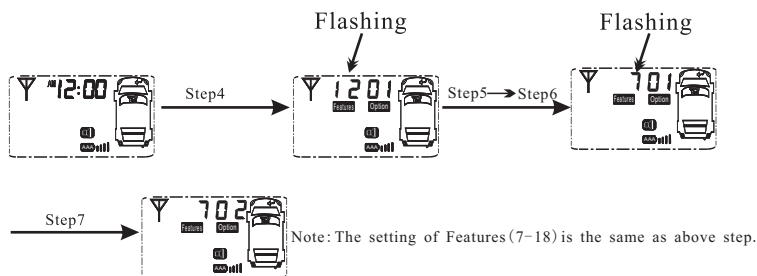
①If you want to set up the first feature to be "Manual", please follow below step:



## SYSTEM INSTALLATION



②If you want to set up the 7th feature to be "OFF", please follow below step:



## IX The Installation of the Whole Unit

### 1. Wires Description

Note: X6 series have 8 wires in the whole unit. The mandatory wires content: H1, H2, H3, H4, H7 and H8. The optional wires content: H5 and H10 (Remote Starter Module), H6 (For future Use), H9 (Region Sensor).

#### (1) Brain Unit Harness Description

##### 2\*6 Pin Connector Primary Harness (H1)

**Pin 1: Red:** Constant +12V Input. Connect this wire to the battery or Constant Power wire at the Ignition Switch with a 30Amp Supply.

**Pin2: Brown:** Light1 Output (+/-). Output is 7A (+) and 250mA (-). The light1 switch (+/-) is on main board, the default is (+) output.

**Pin3: Brown:** Light2 Output (+).

Note: Do not connect the white wire to the vehicles headlight circuit.

**Pin4: Red/Black:** Trunk Output 250mA (-)

**Pin5: Pink:** Horn Output (+).

**Pin6: Black:** System Ground. Connect this wire firmly to the Chassis Ground.

**Pin7: Yellow:** Unlock #87 Normally Open

## SYSTEM INSTALLATION

**Pin8: White:** Unlock #30 Common (Output)

**Pin9: Orange:** Unlock #87a Normally Closed (Input)

**Pin10: Yellow/Black:** Lock #87 Normally Open

**Pin11: White/Black:** Unlock #30 Common (Output)

**Pin12: Orange/Black:** Lock #87a Normally Closed (Input)

Notes: Pin7-Pin12 is DOOR Lock Wire, follows the setting of Door Lock Wiring Diagram.

#### 7-pin Secondary Harness for Outputs(H2)

**Pin 1: Green/White:** Factory Rearm Output (-) 200mA. This wire supplies a ground output on remote start shutdown to rearm a factory security system. Connect to the wire that requires a ground pulse to rearm the factory security system.

**Pin 2: Green/Black:** Factory Disarm Output (-) 200mA. This wire provides a ground output on disarming and before remote starting to disarm a factory security system. Connect to the wire that requires a ground pulse to disarm the factory security system.

**Pin 3: Black/White:** Dome Light Output (-) 200mA. Connect to the wire that activate the vehicle's dome light, usually the door pin switch wire. Note: the dome light output can usually connect to the same wire used for the door trigger input (see purple and green door input wire)

Note: This output is only intended to drive a relay. It can not be connected directly to the dome light circuit, as the output cannot support the current draw of one or more light bulbs. Never use this wire to drive anything but a relay or a low-current input. The transistorized output can only supply 200mA of current. Connecting directly to a solenoid, motor, or other high-current device will cause it to fail.

**Pin 4: Purple/Black:** Auxiliary 4 Output (-) 200mA for windows rolling-up option. Connect to a power window module.

**Pin 5: White/Black:** Auxiliary Channel 5 Output (-) 200mA. This wire provides a (-) 200mA output whenever the transmitter button "AX" is pressed for 2sec. This output can be programmed to provide the following types of outputs:

- 0.8-second timed: Output that will send a ground pulse of 0.8 second.
- 1.5-second timed: Output that will send a ground continuous pulse for 15 seconds.
- Latched, reset with ignition: Output that will send a signal when the Channel 5 button (button AX) is pressed and will continue until the same button (button AX) is pressed again. It additionally stops output whenever the ignition is turned on.

**Pin 6: Blue:** Second unlock (passenger unlock) output (-) 200mA This system is equipped with a dedicated passenger unlock output allowing two stage door lock operation. When connected this wire, disarming the system will unlock only the driver's door. Pressing the disarm button again will unlock all doors.

**Pin7: Orange:** Alarmed output (-) 200mA. The orange wire supplies a ground output while alarmed to activate a relay for starter defeat and anti-grind protection.

#### 6-pin 2510 Harness for Inputs and Outputs(H3)

**Pin 1: YELLOW WIRE:** (+) Ignition Input of the Key Cylinder to Alarm. Connect to the ignition wire that provides +12V when the ignition is on and while cranking the starter.

**Pin 2: BROWN WIRE:** Brake Input (+). Connect to the wire that shows +12V when pressing the brake.

**Pin 3: BLACK WIRE:** Trunk switch Input (-). Connect to an optional instant sensor such as trunk pin switch.

## SYSTEM INSTALLATION

**Pin4: GREY WIRE:** Hood pin Input (-). Connect this wire to the hood pin switch. The switch must supply a ground output (-) when switch is opened.

**Pin 5: PURPLE WIRE:** Positive Door Input (+). Connect to the door switch circuit wire that shows +12V when any door is opened. This type of door circuit is usually found on Ford Vehicle.

**Pin 6: GREEN WIRE:** Negative Door Input (-). Most vehicles use negative door trigger circuit. Connect on the dome-light circuit, there is usually a wire that is unaffected by the delay circuit.

### (2) Remote Starter Module Harness Description

#### 5 Heavy Gauge Starter Harness in the Starter Module (Ignition Switch Interface)

**RED WIRE:** Main Power Input (+). Connect to the battery or constant power wire at the ignition switch with a minimum 30 Amp supply. **Remove the fuse until the installation is completed and all wiring is checked.**

**PINK / IG1:** Ignition Output (+). Connect to the main ignition wire that provides +12V when the ignition is on and while cranking the starter.

**PINK / IG2:** Second Ignition Output (+). Connect to the second ignition wire of the vehicle.

**ORANGE WIRE:** Accessory Output (+). Connect to the accessory wire coming from the ignition switch that supplies power to the heater/air-conditioner. Some cars may have multiple accessory wires.

**PURPLE WIRE:** Starter Output (+). Connect to the vehicle's starter wire.

#### 4-Pin Harness for Start Module (H5)

**Pin1-4: Factory wiring to the remote start module. (H5)**

**4-Pin Harness for Start Module Input and Output (H10)**

**Pin1: BLUE/WHITE WIRE:** (-) 200ma bypass output when remote start. Connect this wire to the interface of Remote Start Bypass Module.

**Pin2: GREY/BLACK WIRE:** Diesel wait-to-start bulb input. (-) Connect this wire to the wire in the vehicle that sends the signal to turn on the WAIT-TO-START bulb in the dashboard. In most diesels, the wire is negative (ground turns on the bulb) and the GRAY/BLACK wire can be directly connected to the wire in the vehicle. If the vehicle uses a positive wire (12V to turn on the bulb), you must set the proper signal polarity in the options list.

**Pin3: BLACK/WHITE WIRE:** (-) Neutral Safety Switch Input. Connect this wire to the PARK/NEUTRAL switch in the vehicle. This wire will test with ground with the gear selector either in PARK or NEUTRAL. This will prevent the vehicle from accidentally being started while in a drive gear. This input MUST rest at ground in order for the remote start system to operate. Connected properly the vehicle will only start while in PARK or NEUTRAL. You may also connect this wire to the Parking Brake Switch.

**Pin4: PURPLE/WHITE WIRE:** Tachwire input. Tachometer Input (Optional). This input provides the module with information about the engine's rotation per minute (RPMs). Connect to the vehicle's tach wire. Common locations for a tachometer wire are the ignition coil, instrument cluster, fuel injectors. The correct wire shows between 1V to 6V (AC) and fluctuates with the idle of the engine when testing with a multi-meter capable of testing AC voltage.

**Note: 1.** The wire can connectless, at this time the system enter the tachless mode;

**2.** This wire has the same function with the High-Voltage sensing input, so it is a alternative solution when voltage sensing input does not supply satisfactory operation. If connect to the High-Voltage sensing input, you must coil this wire five loops onto the High-Voltage from the engine distributor.

## SYSTEM INSTALLATION

### (3) Peripheral Plug-in Connectors

**4PIN BLACK Connector (H4):** Communication Unit. It can hide in A pillar or the boundary between the car crast and front fence during installing, and the situation is higher as possible.

**4PIN RED Connector (H5):** Starter Module.

**4PIN WHITE Connector (H6):** For future use.

**2PIN WHITE Connector (H7):** Valet Switch.

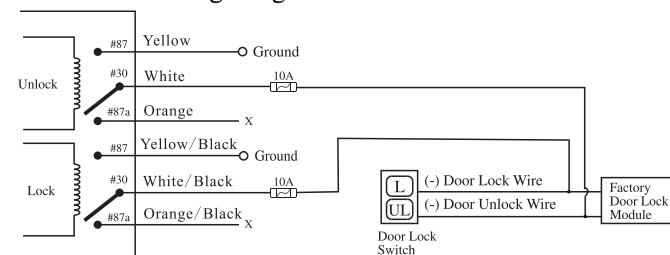
**2PIN WHITE Connector (H8):** LED Port.

**3PIN BLACK Connector (H9):** Region Sensor (① Microwave Sensor only

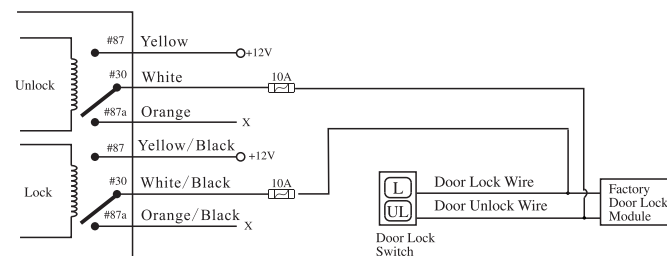
② Ultrasonic Sensor only

③ Both Microwave Sensor and Ultrasonic Sensor)

### 2. Door Lock Wiring Diagram

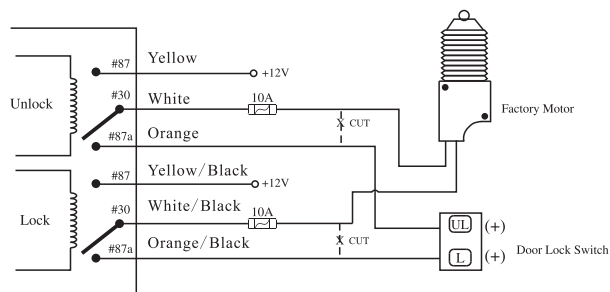


Negative Triggered, Relay-Driver System

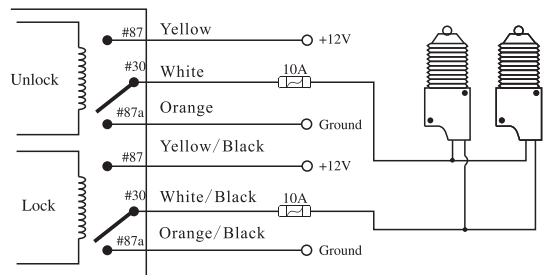


Positive Triggered, Relay-Driver System

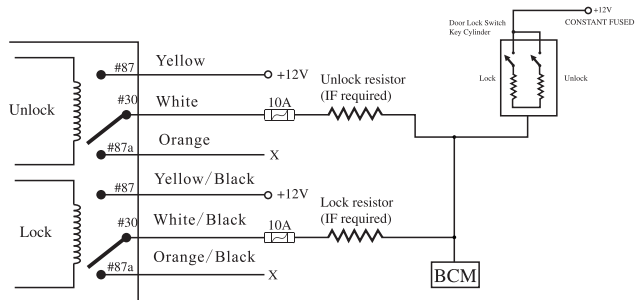
## SYSTEM INSTALLATION



Reverse Polarity

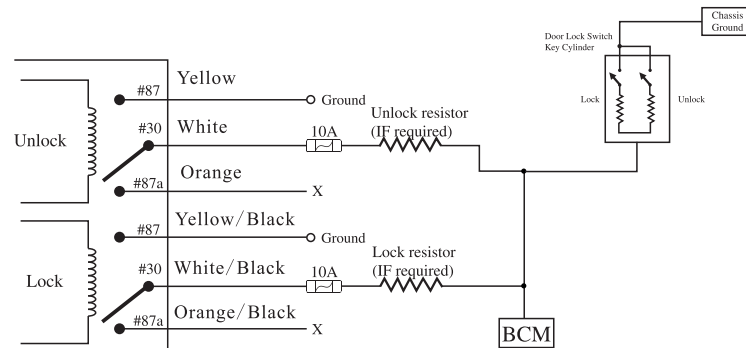


Adding Actuators

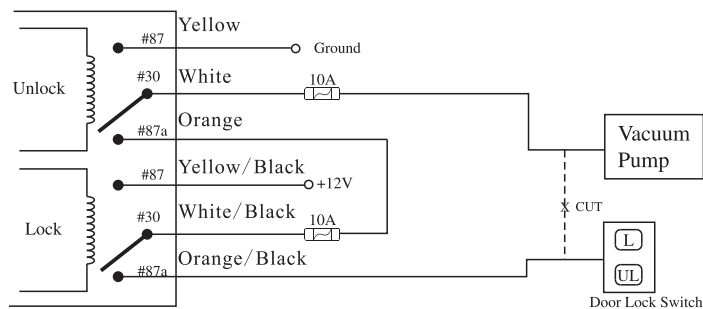


Positive Multiplex

## SYSTEM INSTALLATION



Negative Multiplex



Vacuum Type



## SYSTEM INSTALLATION

### 3. System Installation

1. Due to the complexity of this system, installation must only be performed by an authorized dealer.
2. Thoroughly read and become familiar with the installation instructions before beginning the installation.
3. Review system contents:
  - a. Brain Unit
  - b. Horn
  - c. Transceiver with built-in Shock Sensor
  - d. Starter Kill Relay
  - e. Remote Starter Module
  - f. Valet Switch and Indicate Module
  - g. Harness.
4. Verify vehicle is equipped with electronic fuel injection, and starts/idles normally before installation.
5. Determine if vehicle is equipped with a factory theft deterrent system and obtain proper bypass module if required.
6. Find a location to mount the hood pin switch that will not interfere with the opening of the hood, and is not in a position that can accumulate water. The hood pin is a safety device that must be installed to avoid remote starting during engine servicing.
7. Verify with the owner, the mounting locations for all visible components, including the LED and Receiver.
8. Verify with the owner, the optional features of vehicle security system and the features that must be programmed during installation.
9. Inspect and perform a function test of all vehicle systems before and after the installation.
10. Always use a Volt/ohm meter for testing vehicle circuits. Never use a test light.
11. Always look before drilling any holes or mounting self-tapping screws. Be sure fuel lines and exterior wiring looms are clear as they are often close to the chassis and difficult to see.
12. Protect all wires running from the engine compartment to the interior of the vehicle by covering with electrical tape and split loom tubing. Be sure to use a grommet when routing wires through the firewall.
13. Properly fuse any additional accessories such as starter module, window module, door lock actuators, etc., Making sure to power them separate from the alarm Main Unit. This will ensure the functionality of the security system in the event of an accessory failure.
14. Remove all fuses to avoid running down the battery during installation.
15. Roll down the driver's side window to avoid locking the ignition keys in the vehicle.

### 4. Installation of Transceiver

Transceiver is hiddenly installed. Two antennas are installed right above the front windshield and the rear windshield. Wipe the adhering areas of the shielding glass cleanly, then stick firmly using the accompanied adhesive sticker.

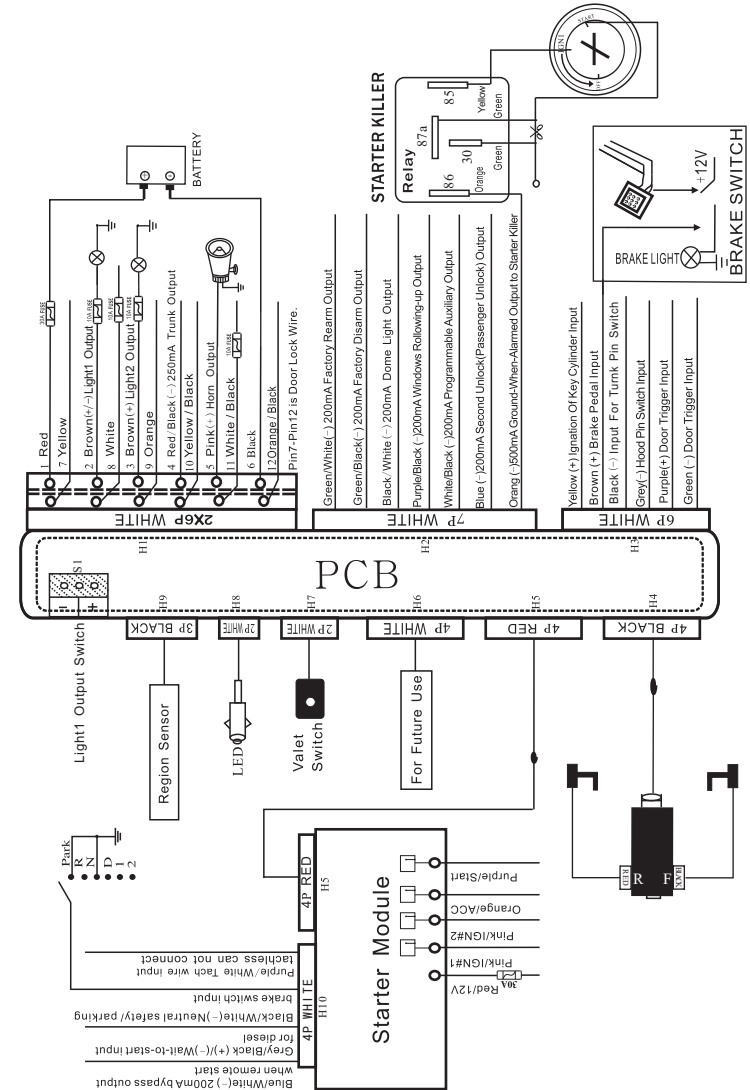


Note:

1. Antenna with black socket is mounted right above the front windshield;
2. Antenna with red socket is mounted right above the rear windshield. Between the car crash and front fence during installing, and the situ-action is as higher as possible.

## QUICK REFERENCE GUIDE FOR SYSTEM WIRING

### 5. Quick Reference Guide for System Wiring



## 6. The Installation of Remote Starter

- (1) Judge the car with a encryption chip key or mot key:  
If the car has a encryption chip key, please install bypass module. The output of our bypass module is “-”.
- (2) Please connect park switch for auto-car, and connect hand brake switch for manual car.  
The input of park wire and hand brake wire is “-”.
- (3) Judge the engine type: diesel or gas  
Please connect the wire of grey/black (+) / (-) wait-to-start input for diesel if your engine is diesel.
- (4) For tach wire Input
  - ① You can choose tachless, that is , you need not connect it
  - ② Please connect the tach wire to tachometer if you want to detect the tach.

Notes:  
It will be no protection function for engine with excessive high speed if you choose tachless.
- (5) For five big wire  
IGN1, IGN2, ACC, START wire is separate output wire.
  - ① Power (RED) wire connect battery “+”.
  - ② For ACC wire.  
When the key is at the position of ACC, the wire with power is ACC wire.
  - ③ The judgement for IGN1 and IGN2  
When the key turns to ON position, IGN1 and IGN2 both have power, then, the key turns to START position, it will be IGN2 wire if the power of this wire is disconnected  
Your car can connect IGN1 or IGN2 at will if the power of both wires is connecting.  
Notes:  
Why our designer separate IGN1 from IGN2?  
Our wiring way conforms to the starting process of existing vehicle.  
Air conditioner system is controlled by IGN2, for example, some models of GM.  
When starting, air conditioner system must be disconnect to guarantee the sufficient power-supply of the battery.
  - ④ For START wire  
When the key is at the position of START, the wire with power is START wire.
- (6) Setting the vehicle  
The way of setting sees P23.  
You should guarantee the way of setting consistented with the wiring way.
- (7) After installing, the entire security put on power, put the ignition key to the “ON” position, lay down the hand brake, then put up the hand brake, set the car at the park/neutral position, turn off the ignition key, arm the car, then press “\*+” to carry out remote starting for the first time
- (8) At this time, the system starts engine for 1.2sec (can be changed by user). If failed, 25sec later, the system will start the engine again; if still failed, 25sec later, the system will starte the engine again; if failed again, the system will exit from the starting pattern. If the starting is successful, please maintain for 2min.
- (9) If the system armed by insufficient battery, please do not carry out remote starting function, and replace the battery as soon as possible. The system detects the insufficient battery when starting, if it is not start successfully at this time, it will quit at once.
- (10) The tach wire input must be connected to tachometer for manual car, otherwise, it can't start the car.

## X FAQ

PROBLEM	POINTS TO VERIFY AND SUGGESTION
1. Alarm will be triggered by shock sensor whenever a heavy vehicle passes by or by something unexpected after you park and arm your vehicle?	Reset the sensitivity of your shock sensor.
2. The Horn/Siren does not work?	Verify if the Horn is damaged? Verify if the chassis ground of horn is good?
3. The Remote Control can work but can not unlock/disarm the car?	Because the code hopping technology is applied in the system, maybe the synchronization information is lost. You may take out the battery of the Remote Control and replace it after 10sec.
4. System makes no response whenever any of the vehicle doors are opened?	Check if the door pin input signal is correct? (Negative signal door for most vehicles or positive signal door for Ford series vehicle). For the vehicle (for example, Buick series) in which the Dome Light signal is supplied with some delay to shut off, it is recommended to connect the wire directly to the door pin wire inside the driver's door instead of the Dome Light.
5. Remote Central Lock does not work normally?	Verify the selection mode of Central Lock (Air of Motor)? Verify the triggering mode of Central Lock (Negative, Positive, Reverse Polarity, or Positive Loop)?
6. The Remote Control can control the Brain Unit normally when doors are open, but can not work when doors are closed?	Verify is chassis ground and +12V power supply is well-connected? Initialize the main control unit by removing and connecting the +12V power wire.
7. System can not start the engine by Remote Control?	Verify if Ignition Key has been pulled off from the Key Cylinder? Verify if the Parking Brake (Handbrake Bar) is well activated? Check if the vehicle is equipped with a encryption chip key? If so, it is required to install an additional bypass module. Verify neutral gear position for manual car when parking and do according to required operation. Verify your battery capability. Verify if the tach wire connect to tachometer for manual car?
8. Whether the transceiver attachment does insert will?	Please clean the paste place with a wet cloth and mount the Communication Unit when dry.
9. Why Remote Control do not open the door?	Please recheck your battery, especially for the car purchased for more than one year.
10. Why shock sensor and tilt sensor do not alarm sometimes?	If in multi-level security arming, the shock sensor and tilt sensor maybe not alarm On Remote Start Mode and Turbo Mode, neither shock sensor nor tilt sensor do alarm.

## WARRANTY

### LIMITED WARRANTY

This Alarm & Starter product is warranted against manufacturing defects in material and workmanship for 180 days from the date of purchase from the authorized Dealer.

During the period, the Dealer will repair the products without charging the parts and labor cost.

The warranty does not cover damage or failure caused by or attributed to Act of God, abuse, misuse, improper or abnormal usage, improper maintenance, lightning or other incidence of excess voltage, or any repairs other than those provided by the Dealer's engineer and their facility.

When warranted time is expired, Dealer will repair the products only charging the parts cost.

### Purchase Information

Name of Dealer \_\_\_\_\_

Address \_\_\_\_\_

Zip Code \_\_\_\_\_

Phone \_\_\_\_\_ Fax \_\_\_\_\_

Date of Purchase \_\_\_\_\_

Signature of Installation Engineer \_\_\_\_\_

### Product Information

Model \_\_\_\_\_

Type of Vehicle \_\_\_\_\_

Serial number of Remote Control #1 \_\_\_\_\_

Serial number of Remote Control #2 \_\_\_\_\_