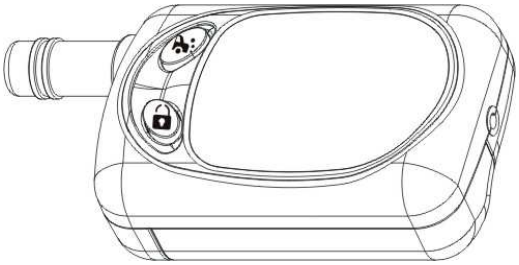
TYNTEK CORPORATION

# Two Way Car Alarm System

# User Manual



Always read carefully and must be fully understood the product notices and user indirections before you attempt to use your two way car alarm system, to assure its safe use. Always store this User's Manual for convenient future reference

Tyntek is an ISO 9001 and QS 9000 certified manufacturer and this product is carrying the DGT、FCC、CE、E-Mark.

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# Introducing the two way car alarm system

Thank you very much for purchasing this two way car alarm system. This system is the multifunctional vehicle security system with colorful LCD monitor and graphic icons, which can be installed to work with any vehicle with its normal voltage of 12 volt. You can master of any vehicle's situation immediately by using the Tyntek two way car alarm system.

Check all devices and buttons can proper work. Must to be fully understood the User's Manual before using this system, in order to use the system properly

This user's manual has been validated and reviewed for accuracy. However, succeeding product and user's manual are subject to change without notice Tyntek assumes no liability for damages incurred directly or indirectly from errors, omissions, or discrepancies between the two way car alarm system and the user's manual.

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- Certificates approvals
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# General precaution

## General condition

1. Do not use your product over the following environmental range: temperature:-20℃~+80℃
2. Do not exposure your product to direct sunlight; it may cause the deformation of shell and breakdown.
3. Do not direct use your product outside when it is raining or snowing, it may cause a short circuit.

WARNING

1. Avoid the short circuit, do not attempt to disassemble or repair the product by your self. Always contact an authorized service provider for appropriate assistance.
2. Always contact with professional technicians to install your product, in order to ensure the alarm system cans proper work.

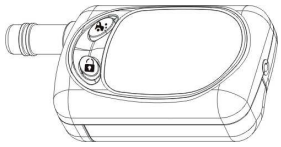
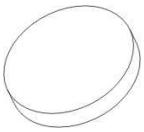
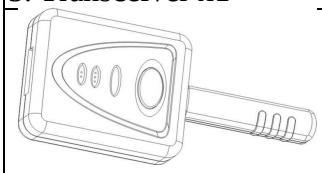
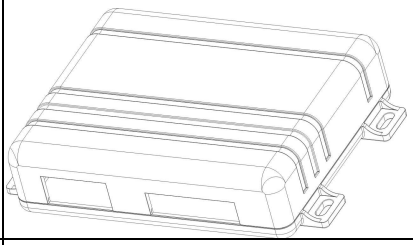
CAUTION

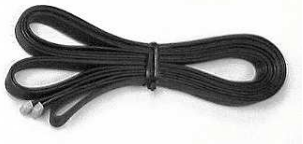
1. Use Only AAA Size 1.5V batteries approved by official recognition
2. Dispose of the battery as required by local ordinance or regulations.

# The product's features

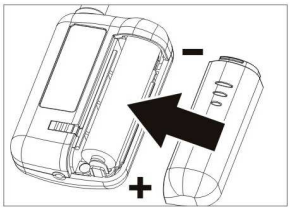
- Two way car alarm system can remote the vehicle to take action and also monitor the vehicle's latest status immediately.
- Use hopping -code and rolling-code and 1KK ID to prevent copying and scanning remote controller
- Embedded the intelligent transponder which will immobilize the vehicle when the vehicle is in arm mode. Only can drive the vehicle when you carry the remote controller and car key simultaneously
- AUTO KEY- Only some luxury vehicles equipped this feature. Your vehicle can identify you on approach and unlock doors automatically
- When the main board is temporarily have a short circuit by intruder in arm mode. The system will still record the previously setting and auto re arm to prevent intruding.
- Portable in size and attractive in physique
- The remote controller can be used from a distance rang to one kilometer, which emits a strong sensor and cutting edge technology. (General 2 way remote controller ranges approximately 300 – 500 meters).
- Preset the hours/temperatures, the system will turn on ignition to warm up the engine automatically (depend on models)
- User friendly interface that utilizes a color display. Users will be very easy to control and set the system without reading user manual.
- Display the time and car's interior temperatures
- The system will memorize the intruded records and occurrence time during your absence.

# Package contents

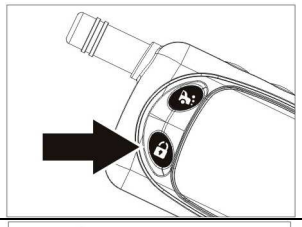
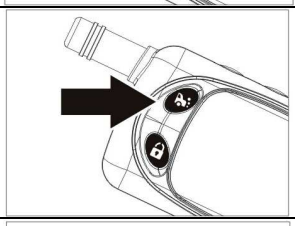
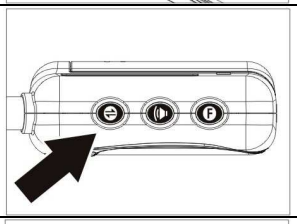
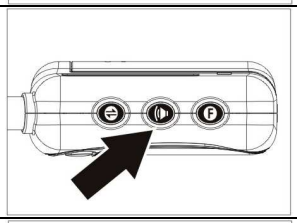
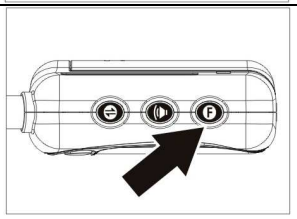
| | |
|---|---|
| 1. 2 way LCD remote controller x 1 | 2. AAA battery x1 |
|  | |
| 3. 1 way remote controller x 1 | 4. 3V CR2032 battery x1 |
| |  |
| 5. Transceiver x1 | 6. Main board x1 |
|  |  |
| 7. Function switch + 2 pin harness wire x1 | 8. Hood switch sensor x1 |

| | |
|---|---|
| | |
| 9. 18pin harness wire x1 | 10. 10pin harness wire x1 |
| |  |
| 11.6pin harness wire x1 | 12. User’s manual x1 |
| | |

## Quick operation guide

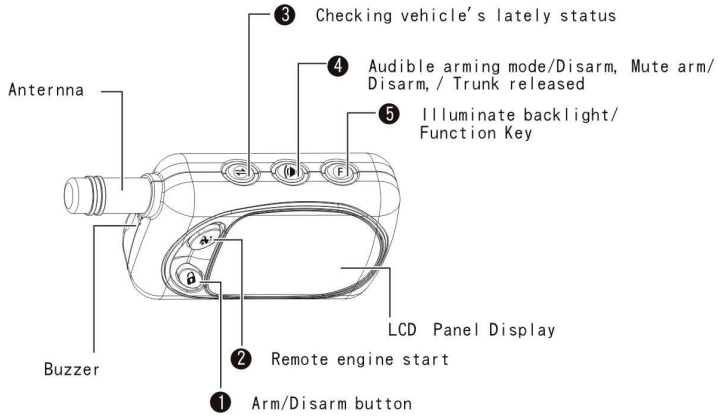
1. 


Inserting the battery. Make sure the battery’s direction of (+/-) poles are right (Page20)

| | | |
|---|---|---|
| 2. |  | Arm/Disarm mode(Page26) |
| 3. |  | Remote engine start(Page27) |
| 4. |  | Press button: checking vehicle's latest status<br>Press button for 1.5 seconds: car locator (Page28) |
| 5. |  | Press button: Audible arming/Mute arming mode<br>Press button for 1.5 seconds: open truck (depend on models) (Page29) |
| 6. |  | Press button: illuminated backlight<br>Press button for 1.5 seconds to select function button (Page31) |

# Getting to know your two way remote controller

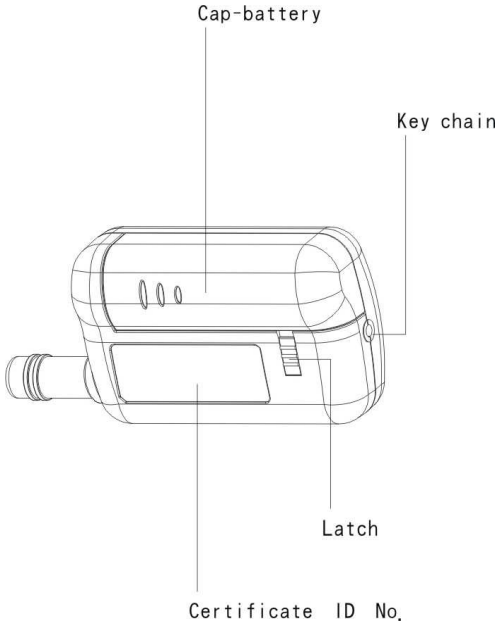
## Front with LCD




- Antenna
- Buzzer (Page25)
- LCD (Page16)

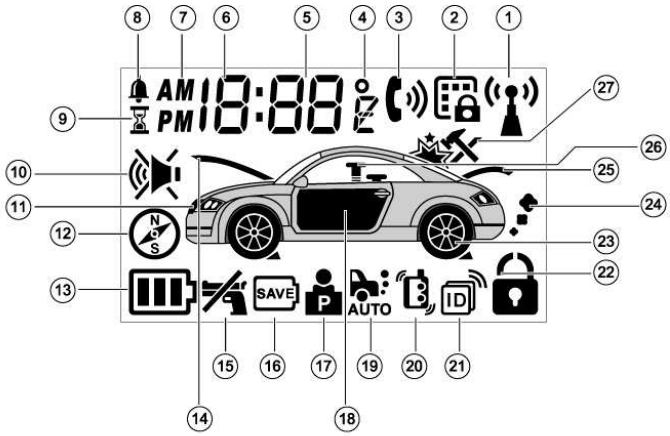
1. Arm/Disarm button (Page 26)
2. Remote engine start (Page 27)
3. Checking vehicle's latest status/Car locator (Page 28)
4. Audible arming mode/ Mute arming/ Trunk release (Page 29)
5. Illuminate backlight/Function button selection(Page 31)

## Downside




1. Cap-battery
2. Latch
3. Key chain
4. Certificate ID No.

# LCD and icon's features



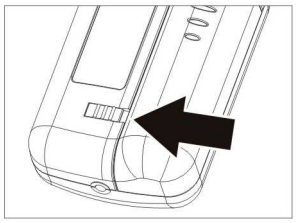

① In-range indicator
② Key lock
③ Calling driver
④ Display vehicle's interior temperature
⑤ Display minutes/Program mode selection/ Auto feature selection
⑥ Display hours/Program mode selection/ Auto feature selection
⑦ Display AM/PM
⑧ Reserve
⑨ Final countdown
⑩ Audible arming arm/Mute arming arm
⑪ Indicators indication
⑫ Car locator
⑬ Battery's status
⑭ Intruded hood indication
⑮ Anti car-jacking ON
⑯ Power save mode
⑰ Valet mode
⑱ Intruded door indication
⑲ Auto engine start
⑳ Vibration alert mode
㉑ Auto key ON
㉒ Arm/Disarm mode
㉓ Running engine (running tire)
㉔ Running engine
㉕ Trunk release
㉖ Central door Lock/Unlock
㉗ Light/Heavy impact indication

# Before using the remote controller

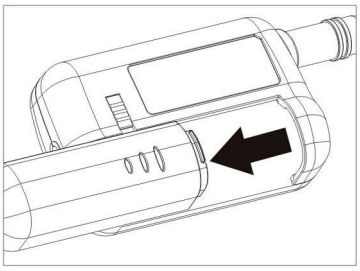
## Replacing the battery

Use AAA Size Battery 1.5V

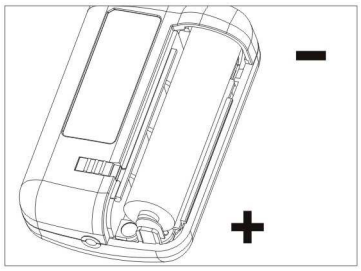
1. Slide the latch (to the direction of left)



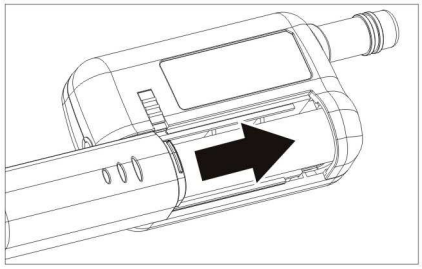
1. Slide the cap-battery to take apart it from body-rear.



2. Before inserting the new battery, check battery's +/- poles and remote controller +/- are in the same direction (After inserting the battery, the remote controller will vibrate twice and beep once to confirm the battery has be securely inserted)

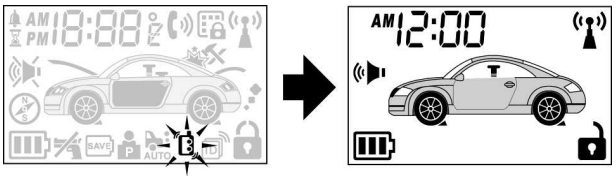



3. Slide up cap-battery



4. Side the latch to lock position (to the direction of right) and until hearing a “clicking” sound.

After inserting new the new battery, LCD will display all icons and the remote controller will vibrate twice and then LCD will return to original setting.




Notice：If you insert battery’s poles +/- in wrong direction, the remote

controller will slightly vibrate to notice you to change the direction of battery's poles.

The remote controller's battery status

| | |
|---|---|
| | Battery is full |
| | Battery is less than 1/3 |
| | Battery is less than2/3.<br>Suggest replacing a new battery. |
| | The battery is exhausted. Replace a new battery immediately to ensure proper performance. |

The efficiency of battery operating time

(Testing standard: DURACELL Alkaline Battery)

| | |
|---|---|
| General condition(remote | over 180 days |

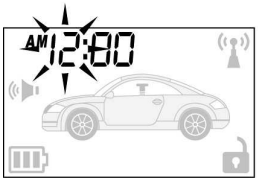
| | |
|---|---|
| arm/disarm/engine start twice per day) | |
| Power save mode | Over 720days |
| Turn on AUTO KEY feature | Over 120days |

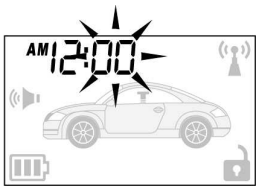
- The above-mentioned data is according to Tyntek testing standard. The data may changed in accordance with different environments and personal usage
- Turn On AUTO KEY, the remote controller will consume more battery in accordance with the distance between remote controller and main board, especially the remote controller is often near to the car.

## Setting the time

1. Press button F for 1.5 seconds and the remote controller will be in functional selection mode.

2. Press button F again，the flashing icon will move from one icon to next icon until AM 18:88 to adjust hour



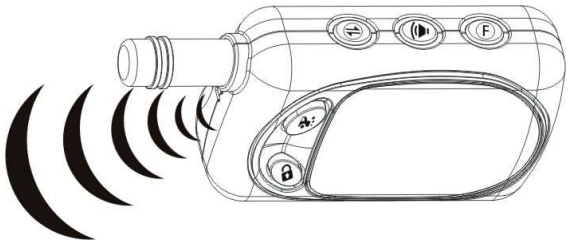

3. Press button and to adjust hours (12 Hours)

4. Press button F again and press button and to adjust minutes

5. Press button to complete selection. The remote controller will beep once and return to normal mode.

**Notice: After replacing a new battery, the time will display AM12:00 and user need to set the time again.**

# The two way remote controller's melodies



**Eight Types of Melodies:**

1. Remote Engine Start Melody
2. Successful Engine Start Melody
3. Failed Engine Start / Stop Engine Start Melody
4. Checking Mode Melody
5. Intrusion Melody
6. Calling Driver(Telephone Ring)
7. Audible Arming Melody
8. Mute Arming Melody

**Four Types of Buzzers**

1. Arm Mode: 1 beep
2. Disarm Mode: 2 beeps
3. Time Out / Error: 3 beeps
4. Key Tone
5. Confirmation: 1 long beep

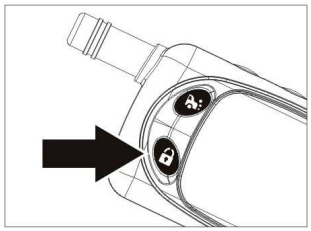
# The two way remote controller's features

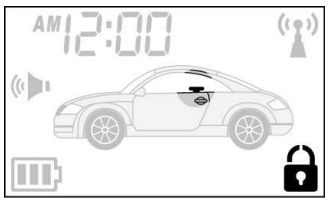
- When appear, user can press any button on remote controller to command vehicle to take action. the remote controller will receive echo from main board While main board start to act command,
- will disappear when the remote controller is out of range or feedback signal is blocked.
- Press button or F，LCD backlight will be illuminated

## ARM MODE

Press button LCD display：

- For vehicle equipped with center control door locks, doors lock automatically. The alarm will chirp once and vehicle's indicators will flash once.
- The remote controller will beep once, flash the indicators once and display vehicle's status.
- The remote controller will display central door locks
- The RF transceiver's LED indicator will flash slowly.
- In arm mode, the system will disconnect power supply unless using remote controller to disarm

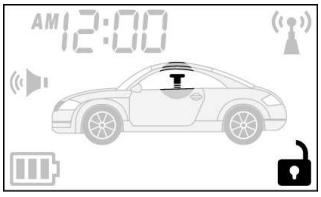





## DISARM MODE

Press button LCD display：

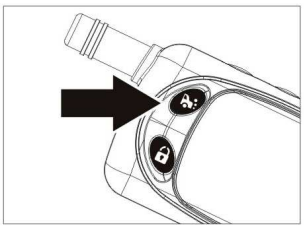
- For car equipped with center control door locks, the buckles will release and the alarm will turn to OFF mode. The alarm will chirp twice, flash vehicle's indicators twice and illuminate dome light for 15 seconds
- The remote controller will beep twice, flashing indicators and display door unlocks
- The remote controller will beep twice and flash indicators twice
- In disarm mode, the transceiver's LED indicator stop flashing.
- If you don't open doors within 30 seconds, the system will auto re-arm

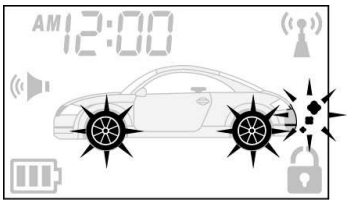


## REMOTE ENGINE START and

Press button

- When engine is not running, press button on to start engine and the vehicle's indicators will flash 4 times and chirp 4 times faster and faster.
- The remote controller will sound remote engine start melody.
- Pre-warm engine for 6 seconds, engine will start. 4 times (The system will act step by step: 0.8s、1s、2s、3s) and stop starting once successfully started.
- When engine is running, the remote controller will sound successful engine start melody and LCD will display running and .
- Before driving the vehicle, user needs to turn the ignition key on "On Section" and steps on foot break to start driving.
- If user doesn't turn the ignitions key on "On Section", but step on foot break. The alarm will stop engine running immediately and flash vehicle's indicators 4 times and chirp 4 times slower and slower.
- The remote controller will sound failed engine start melody





## REMOTE ENGINE STOP

Press button

- When engine is running, press button to stop engine. The alarm will flash vehicle's indicators 4 times and chirp 4 times slower and slower
- Remote controller will sound engine stop melody and disappear and .

## MANUAL TRANSMISSION CAR: REMOTE ENGINE START / STOP

(Go to Programming Mode to choose manual transmission system)

**Notice: Must follow the safety operation process for manual transmission car**

STEP1: When engine is running and car key is still in ignition, pull up hand break

STEP2: Press button and take out the car key (the engine is still running)

STEP3: Open and close car's doors and then the engine will stop running automatically

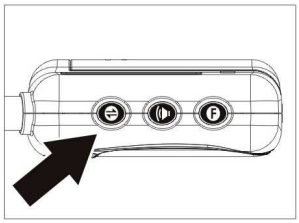
STEP4: User can press button to remote engine start and stop next

time.

## CHECKING VEHICLE'S LATEST STATUS

Press button

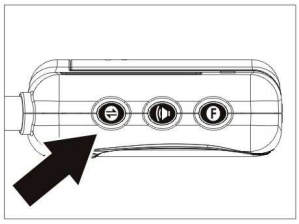
- The vehicle will flash indicators 3 times
- The remote controller will flash the indicators 3 times; sound checking melody and displays vehicle's status and interior temperature.
- Backlight will be illuminated for 3 seconds

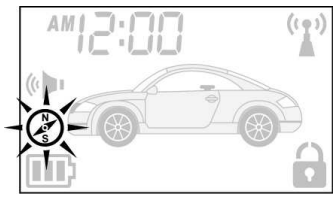


## CAR LOCATOR

Press button for 1.5seconds LCD display:

- The vehicle slowly flashes indicators to locate vehicle
- The remote controller will display and flash indicators slowly
- Press button once or press any key to disable this feature

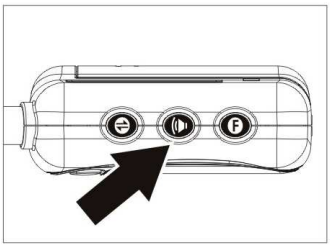


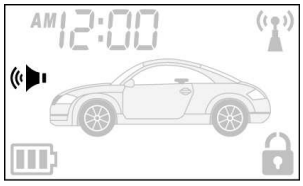



## AUDIBLE ARMING MODE

In mute arming mode, press button LCD display：

- Change to audible arming mode, the vehicle will chirp one log beep and flash indicators once
- The remote controller sound audible alert melody, flash the indicators once and display vehicle’s status



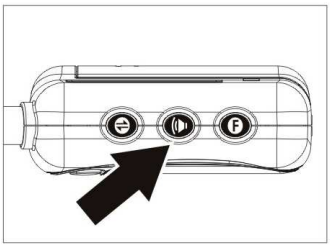


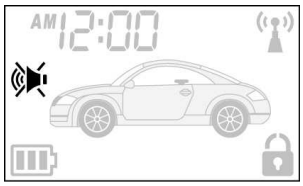
## MUTE ARMING MODE

In audible arming mode, press button to switch mute arming mode

LCD：

- Change to mute arming mode, the vehicle flash indicators once
- The remote controller flash the indicators once, sound mute alert melody and display vehicle’s status

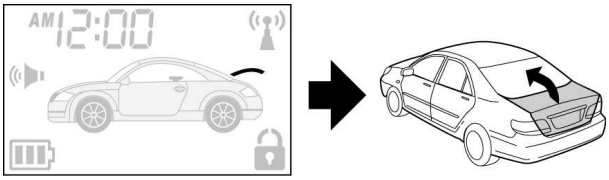




## TRUNK RELEASE

Press button for 1.5 seconds

- Vehicle's trunk will be released and the alarm system disable shock Sensor's mode temporarily until user closes the vehicle's trunk
- The remote controller display trunk release and sound one long beep to Confirm
- When user closes the vehicle's trunk, the alarm chirp once and flashes indicators once. The alarm system will be in shock
- sensor mode again after 3 seconds
- When engine is running, this feature will be disabled




## BACKLIGHT

Press button F

- Illuminate backlight for 3 seconds

## REMOTE ANTI-CAR JACKING ON

Press button on F + for 3 seconds LCD display：

- The vehicle will flash indicators and sound warning siren for 30 Seconds
- The remote controller will display and flash indicators.
-

## REMOTE ANTI-CAR JACKING OFF

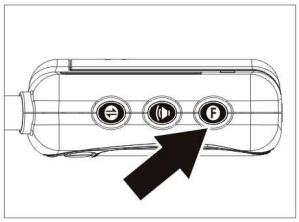
Press any button on remote controller to disable this feature

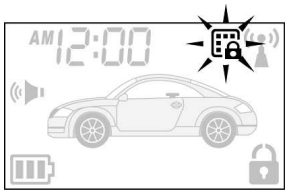
- The vehicle stop flashing indicators and warning siren
- will disappear on LCD

## FUNCTIONAL SELECTION MODE

Press button F for 1.5 seconds

- choose different icons to select different features





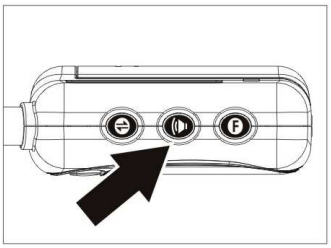
# OTHER FEATURES WHILE VEHICLE IS RUNNING

## LOCK/ UNLOCK DOORS FEATURES

- Press button on to lock/unlock doors
- Arm/Disarm features are disabled

## WARNING SPEED MODE

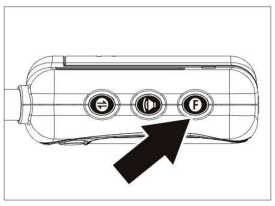
- When speed is over 20km/h, user can press button to set the warning speed and the alarm will beep once. When speed is faster than warning speed, the alarm will continue beeping until the speed is slower than warning speed.
- Press button again and the alarm will beep twice to disable warning speed mode. Under 20km/h, user presses button, the alarm will beep twice to disable warning speed mode.



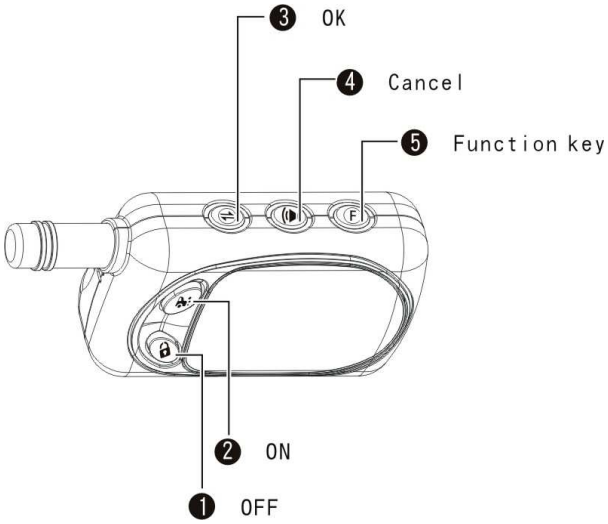
# FUNCTIONAL SELECTION MODE

## Operation

1. Press button F over 1.5 seconds.



2. Press button F again, the flashing icon will move from one icon to next icon



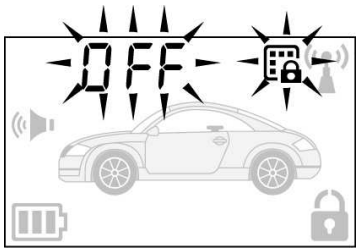
3. Press or to select ON/OFF, temperature, time+/-, the sensitivity adjustment of shock sensor and Auto key +/-
4. Press button to complete selection or press button to continue selecting next feature
5. Press button to leave graphic user interface mode immediately

# THE ICON'S FEATURES ON LCD

## KEY LOCK

Lock all buttons to avoid pressing wrong button

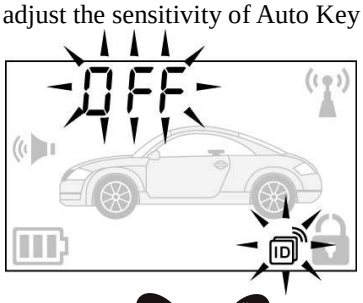
1. Press button to choose t
2. Press button or to select ON/OFF。
3. Press button to complete selection
4. Only button can be performed to avoid user pressing wrong buttons



## AUTO KEY

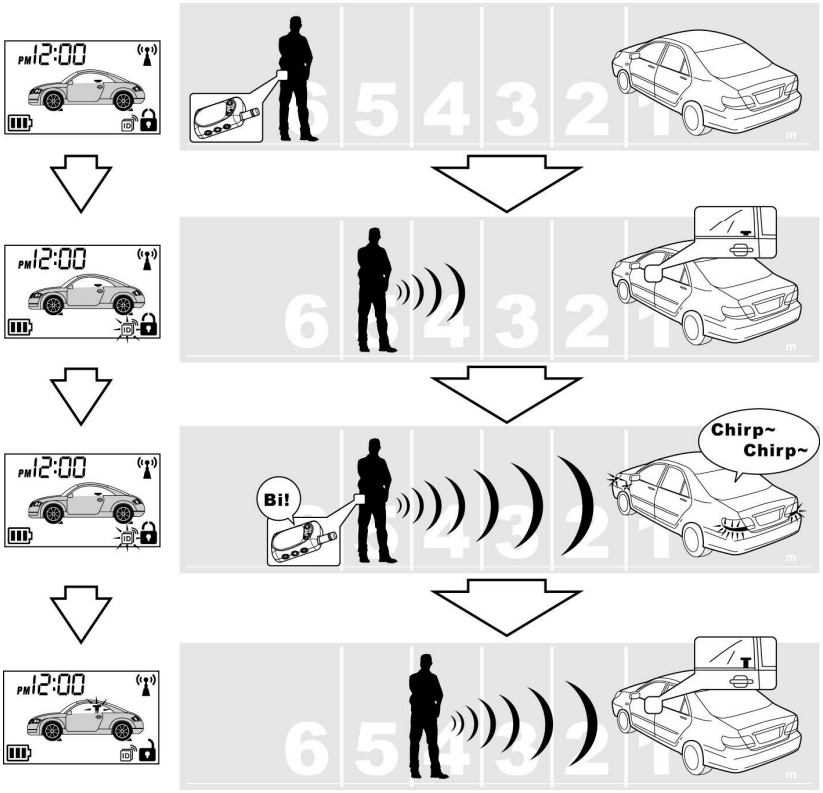
When remote controller is close to car around 5 meter, the remote controller will communicate with main board to identify the master on approach and unlock doors automatically。

1. Press button F to choose ID
2. Press button or to select ON/OFF
3. Press button to complete selection or press F again to adjust the sensitivity of Auto Key




4. Press button and to adjust the sensitivity level of Auto Key
5. Seven adjustable levels for user to adjust the sensitivity of AUTO KEY: -3,-2,-1,0,1,2,3 (larger number means higher sensitivity and automatically unlock door in shorter distance between the vehicle and the remote controller)
6. Press button to confirm the selection and return to normal mode
7. The alarm system will detect the presence of your remote controller and start to verify the ID code.

8. When remote controller is getting closer to vehicle and the vehicle will start to flash the indicators twice and unlock doors automatically
9. After the alarm system unlocks doors automatically, if user doesn't open the door within 30 seconds, the system will auto re arm.
10. When user turn on car locator feature, Auto Key will be disabled
11. **As AUTO KEY ON, it will consume more battery**
12. The sensitivity of Auto Key will be affected by different surroundings and humidity
13. The sensitivity of Auto Key will be affected by different surroundings and humidity. Auto Key may unlock door around 8 meters from your location to the car. It also may unlock doors when you are just stand next to doors. The tolerance is around 3 meters.

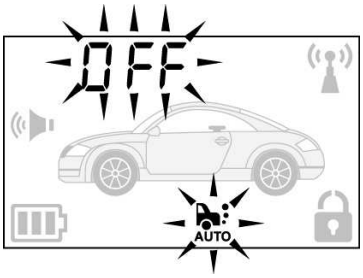

PM 12:00
Bi!
Chirp~
Chirp~

## PROGRAMMABLE AUTO HOUR / TEMPERATURE ENGINE

### START

Preset auto hours/ temperatures to start engine automatically (depend on models)

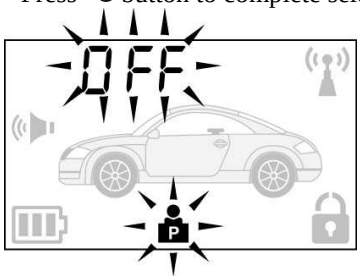
1. Press F button to choose to choose AUTO
2. Press or buttons to select ON/OFF.
3. If turn ON, press button F to set interval hours to warm up engine automatically
4. Press and to select hour on 88 (every 1-99 hours
5. Press button to complete selection. The system will start to count time when the alarm is in arm mod



## VALET MODE

Only arm/disarm、car locator、function button can work.

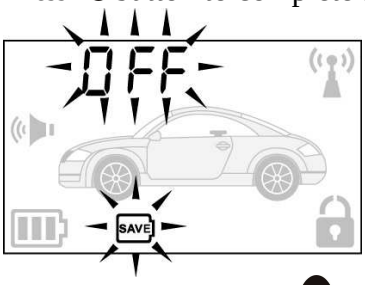
1. Press button to choose to choose
2. Press or buttons to select ON/OFF
3. Press button to complete selection



## POWER SAVE MODE

Turn on power save mode; the remote controller will record all original parameters and timer. The remote controller wills not response to main board until disabling power save mode

1. Press button to choose to choose
2. Press or buttons to select ON/OFF
3. Press button to complete selection



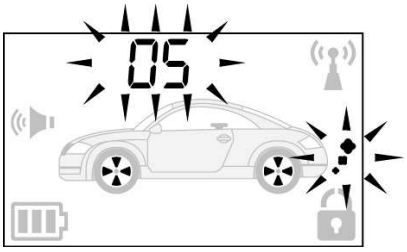

4. In power save mode, only button can be worked and will flash slowly.
5. After turn off power save mode, press button to check the vehicle's lately status

**PROGRAMMABLE ENGINE RUNNING TIME ENGINE**

+

Preset the engine running time when remote engine start or auto engine start

1. Press button to choose to choose +
2. Press button or to adjust programmable engine running time on 88 for 5, 10, 15 minutes
3. Press button to complete selection
4. +88 indicate the countdown for last minute to warm up engine and remote controller will beep 4 times to remind user



## THE SENSTIVITY ADJUSTMENT OF SHOCK SENOR

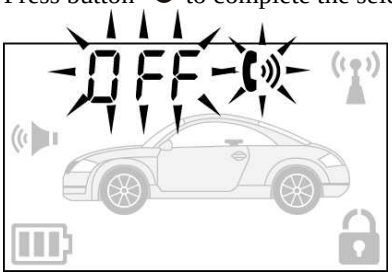
To adjust or disable the sensitivity level of shock sensor

1. Press button to choose to choose +88
2. Press or buttons to adjust eight sensitivity levels on 88 : -3、-2、-1、0、1、2、3、OFF(the larger number means higher sensitivity)。
3. Press button to complete selection

## MOVING CAR NOTICE (Optional accessory)

The sensor card will be stuck on the front glass of the vehicle, when touching the sensor card over 3 seconds; the sensor card will call the remote controller

1. Press button to choose
2. Press buttons or to select ON/OFF。
3. Press button to complete the selection




- **If turn off the moving car notice feature, the remote controller will not response to sensor car, but the remote controller will still response to the signals from transceiver (calling driver feature)**
- **In the heavy raining, the moving car notice feature may improper work; please turn off this feature to solve this problem.**

# Auto alarm and other features

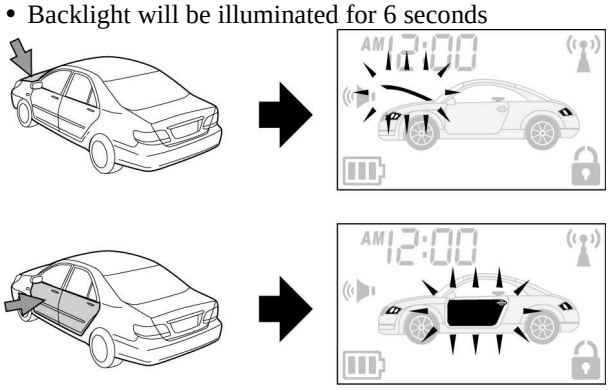
## IN-RANGE INDICATOR

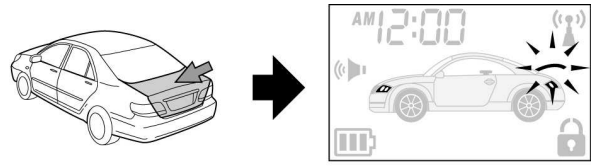
When disappear which means remote controller is out of range or feedback signal is blocked LCD

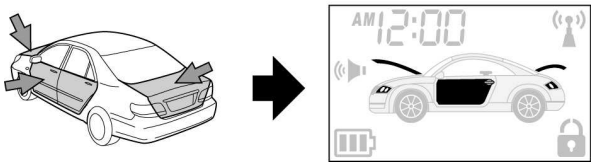
When the remote controller is back in communication range, press any button, in-range indicator will appear on LCD monitor again.

## DOOR、TRUNK、HOOD ANTI-INTRUSION

- The doors, trunk, or hood are triggered during arming period, the vehicle will sound warning siren and flash the indicators for 30 seconds. Press button to stop warning siren
- The alarm system will reports the triggered alarming status to the remote controller immediately. The remote controller will display the vehicle status and sound intrusion melody for 6 seconds
- Backlight will be illuminated for 6 seconds

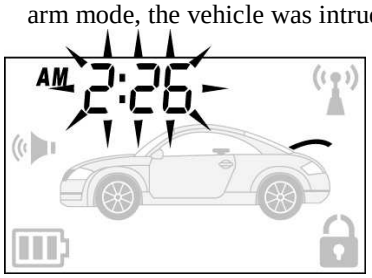





## CHECK VEHICLE'S INTRUSION RECORD

- Press button to check the latest vehicle status. If alarm was triggered, the remote controller will display vehicle's intrusion record and occurrence time
- Press button to delete the remote controller's intrusion record
- When user open vehicle's doors, the vehicle will flash indicators 3 times and sound warning siren 5 times to alert users when the vehicle was in arm mode, the vehicle was intruded in user's absence.



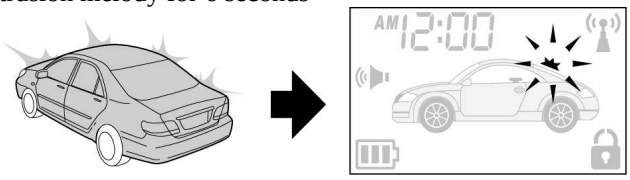
## AUTO RE- ARM

- In disarm mode, if user doesn't open the door or remote engine start within 30 seconds, the system will be auto re-arm
- If user remote engine start first and remote disarm, the system will be disabled auto re arm feature automatically

## SHOCK SENSOR

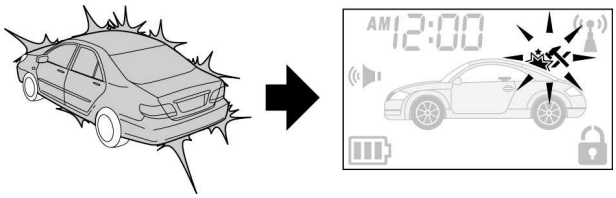
**Light impact**：

- Vehicle will flash indicators 3 times and sound warning siren for 3 times.
- The remote controller will display to indicate light impact and sound intrusion melody for 6 seconds




**Heavy impact**：

- the vehicle will flash indicators 30 seconds and sound warning siren for 30 seconds
- The remote controller will display indicate heavy impact and sound intrusion melody for 6 seconds

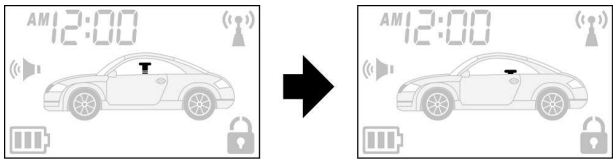


## AUTO UNLOCK DOORS WHEN TAKE OUT CAR KEY

- When user take out the car key, the system will unlock the doors automatically

## AUTO LOCK DOORS WHEN DRIVING THE CAR

- When speed arrive at 20km/h, the system will lock the doors automatically




## REMOTE CONTROLLERLER'S BATTERY STATUS

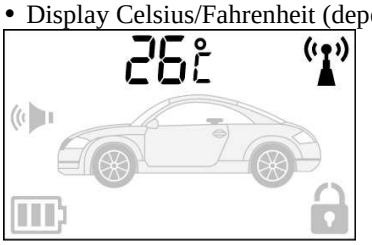
- Display battery's status
- Replace a new battery

## TIME INDIATION

- Display time in AM/PM format AM 18:88

## DISPLAY VEHICLE'S INTERIOR TEMPEATURE

- When the remote controller displays vehicle status, it also will display vehicle's interior temperature.
- Display Celsius/Fahrenheit (depend on models)



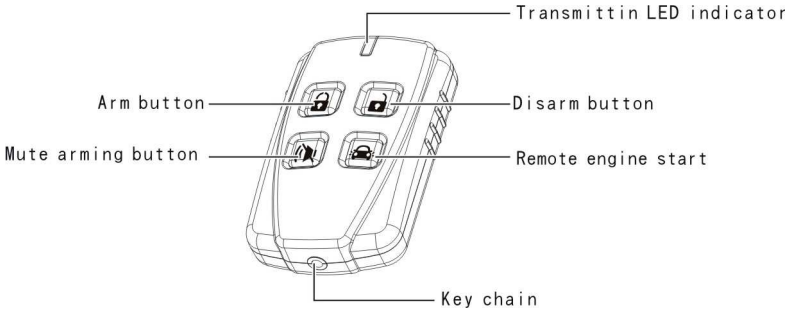

## FLASHING INDICATORS WHILE OPENING THE DOORS

- When you open the door, the vehicle will flash indicators three times to warn car from behind
- When you close the door, the vehicle will stop flashing indicators immediately.

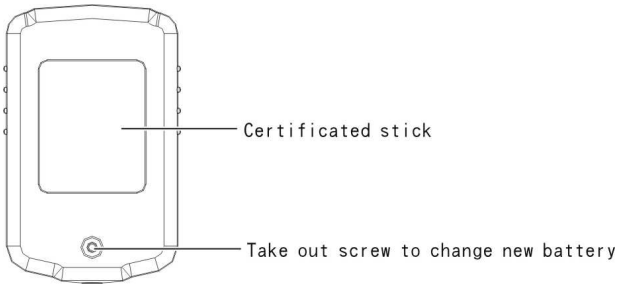
# Getting to know your one way remote controller

The one way remote controller only work about 10 meters

Front




Backside



## The one remote controller's features

ARM MODE

- For vehicle equipped with center control door locks, doors lock automatically. The alarm will chirp once and vehicle's indicators will flash once.
- The RF transceiver's LED indicator will flash slowly.

DISARM MODE

- For car equipped with center control door locks, the buckles will release and the alarm will turn to OFF mode. The alarm will chirp twice, flash vehicle's indicators twice and illuminate dome light for 15 seconds
- In disarm mode, the RF transceiver's LED indicator will stop flashing.

MUTE ARMING MODE

- Change to audible arm mode, the vehicle will chirp one log beep and flash indicators once
- Change to mute alert mode, the vehicle flash indicators once

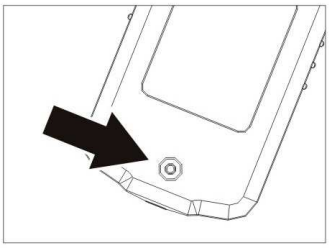
REMOTE ENGINE START

- The vehicle will flash indicators and start ignition

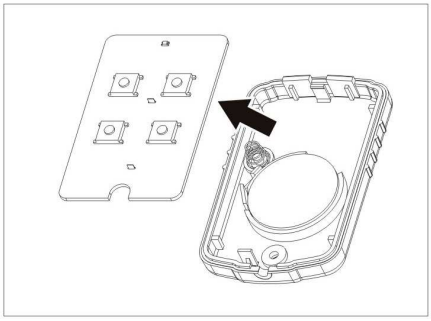
- Press button again to stop engine

## Replacing the battery

1. Use small screw driver to take out screw

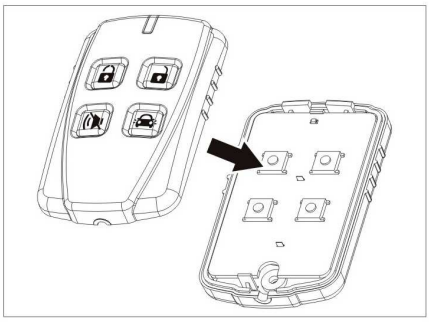


2. Take off the PCB to replace the battery



3. Make sure the PCB poles +/- and inserting a new battery (3 V CR2032 Lithium battery)

4. Take back PCB and screw the screw tightly.



If one way remote controller can’t proper work:

- Check the battery status and replace a new battery
- If the light of LED indication is too weak, replacing a new battery immediately

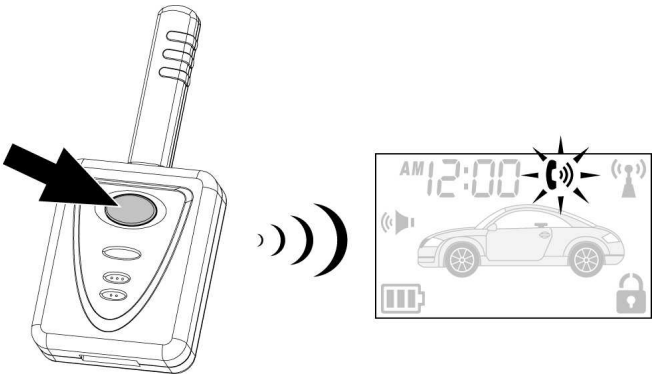
# The RF transceiver and moving car notice features

## CALLING DRIVER

- Press the button on the transceiver to call the remote controller

The remote controller will display and sound telephone ring

- Press any key on remote controller to disable this feature



## MOVING CAR NOTICE

- The sensor card will be stuck on the front glass of the vehicle, touching it over 3 seconds, and it will send signals to remote controller
- The remote controller will display icon which is flashing fast and sounding telephone ring
- The LED indication on moving car card will be illuminated to indicate transmitting signals to the remote controller right away.
- When the remote controller receive the signals from moving car card, press any button to disable the telephone ring

# The function /override switch's features

You are suggested to set the override switch in hidden place

## MANUAL ANTI-CAR JACKING ON

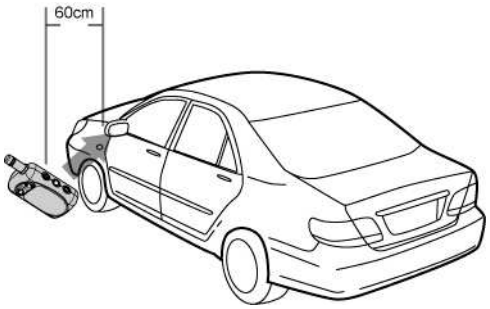
- Press function switch 3 times (intervals between 1 seconds)
- The vehicle will flash indicators and sound warning siren for 30 seconds. After engine is stopped running, the alarm system will disconnect the power supply, the drivers cant start engine unless disabling anti-car jacking

# How to register your remote controller

## Registrate your remote controller

- Step1: Press function switch over 5 seconds, the car's indicator will flash once and then until the RF transceiver's LED indicator will fast flash
- Step2: The remote controller and car's rear mirror need to be parallel and keep 60cm distance between the rear mirror and the remote controller. Press + buttons on the remote controller simultaneously for over 3 seconds to register. (LCD will show flashing across line to indicate the remote controller is registering now)

  (If the system doesn't have Auto Key feature, you just sit in the car and press + buttons for 3 seconds to complete registration




(The remote controller and car's rear mirror need to be parallel and keep the distance for 60cm from car's rear mirror to the remote controller)

(Follow above diagram to register the remote controller direction. The antenna of the remote controller and car's door need to be parallel to register)

- Step3: Keep the remote controller at the same position **(keep parallel and leave the rear mirror for 60 cm)** around 15 seconds until you hear melody from your remote controller Now your registration has succeeded.
- If fail, you will hear Bi! Bi! Bi! from the remote controller. Please start step 1 to step 3 again. ( From Step1 to Step 3 must be completed within

20 seconds)

- **You must follow the procedure from step1 to step3 and be careful to register the remote controller in the right position. Otherwise, the remote controller is in improper position to register, it may cause AUTO KEY improper operation**
- **Perform step1 and step3, please don't touch the antenna of the remote controller, it may cause the remote controller cant proper work**
- If you still cant use remote controller to command the car, please try again from Step1 to Step3.
- Hoping-code system with 1KK ID to prevent copying and scanning

One main board can be registered maximum six remote controllers. If over six remote controllers, the alarm system will kick out the first remote control.

# The default setting

| Display icons | Features | Original parameters |
|---|---|---|
| | Arm | Disarm |
| | Battery’s status | Depends on battery |
| | Audible arm/Mute arm | Audible arm |
| AM 18:88 | Time indication | AM 12:00 |
| | Key Lock | OFF |
| ID | AUTO KEY | OFF |
| | The vibration mode of remote controller | OFF |
| AUTO | Programmable auto engine start | OFF |
| P | Valet mode | OFF |
| SAVE | Power save mode | OFF |

| | | |
|---|---|---|
| | Engine running time | 5 minutes |
| | Adjustment of shock sensor | Sensitivity level is 0 |

# Trouble Shooting

| Problem | Problem cause | Suggestion |
|---|---|---|
| Cant remote arm mode | The car key is still in ignition | • When the car key is still in ignition, press button to lock/unlock the doors only |
| Cant remote and monitor the car | Out of range | • Press button to check the latest vehicle status in communication range. If in-range indicator appear, the remote controller can proper work |
| | Battery is too low | • When is battery is too low , replacing a new battery immediately to ensure proper work |
| | Influencing by electromagnetic surroundings | • Leave this surroundings and the remote controller can proper work |
| LCD cant display any information | The remote controller cant contact with battery's terminal | • Using clean cloth to clean the battery's terminal |
| | Inserting the battery's pole in wrong direction | • Inserting the battery's pole in right direction, the remote controller can proper work |
| | The battery is exhausted | • Replacing a new battery |
| Auto key cant proper work to unlock the doors | The remote controller need to be out of communication range around 10 meter | • <br>• Auto Key can detect the present distance of remote controller and unlock doors automatically. The remote controller needs to be carries out about 10 meters and go back. The auto key will start to detect again. |
| Auto Key cant proper work(too early to open the doors or to late to open the doors) | Adjusting the sensitivity level of Auto key | • Press button **to** AUTO icon, press button **and** to adjust the sensitivity level |
| Vehicle can't remote engine start | The car key is still in ignition | • Please start the engine by remote control first and then push in the car key. |
| | Don't proper close the doors, hood, trunk | • checking doors, hood, trunk |
| Cant remote opening the trunk | Different models of cars have different design, this feature needs to depends | • If you car don't have this design, you can purchase additional relay to have this feature. |

| | | |
|---|---|---|
| | on vehicle’[s original design | |
| The remote controller shorten the remote distance | Touching the antenna will cause the noise to shorten the distance | • Avoiding touching the antenna when using the remote controller |

# Product Specifications

## 2 Way LCD Remote controller

1. Operation Frequency: 433.92MHz
2. Output power: +3dBm
3. The sensitivity: -122dBm
4. Working voltage：1.5V AAA Size battery
5. LCD display
6. Mute/Vibration mode
7. 5 buttons
8. Working temperature: -10℃~ +60℃
9. Storage temperature: -20℃~ +80℃
10. Dimension: 55×35×21mm

    Dimension:73x55x21mm(including the antenna)

## 1 Way Remote controller

1. Operation frequency: 433.92MHz
2. Output power: 0dBm
3. Working temperature：3V CR2032 Lithium Battery
4. 4 buttons
5. Working temperature: -10℃~ +60℃
6. Storage temperature: -20℃~ +80℃
7. Dimension: 53×32.5×13mm

## RF Transceiver

1. Operation frequency: 433.92MHz
2. Output power: +3dBm
3. The sensitivity: -122dBm
4. Working voltage：5V
5. Working temperature: -30℃~ +110℃
6. Storage temperature: -40℃~ +120℃
7. Dimension: 93×40×14.5mm

## Main Board

1. Working voltage：12V ( 8~14.5V )
2. Input /Output port：

(一)I/O PORT

| | | | |
|---|---|---|---|
| 01 | GND | | |
| 02 | DOOR_SW (+) | INPUT | |
| 03 | ULK(OPT) | INPUT | |
| 04 | TRUNK_SW | INPUT | |
| 05 | LK(OPT) | INPUT | |
| 06 | DOOR_SW (-) | INPUT | |
| 07 | HOOD_SW | INPUT | |
| 08 | FOOT_SW | INPUT | |
| 09 | HAND_SW | INPUT | |
| 10 | SPEED SENSOR | INPUT | |
| 11 | ARM_OUT | 300mA Negative Output | |

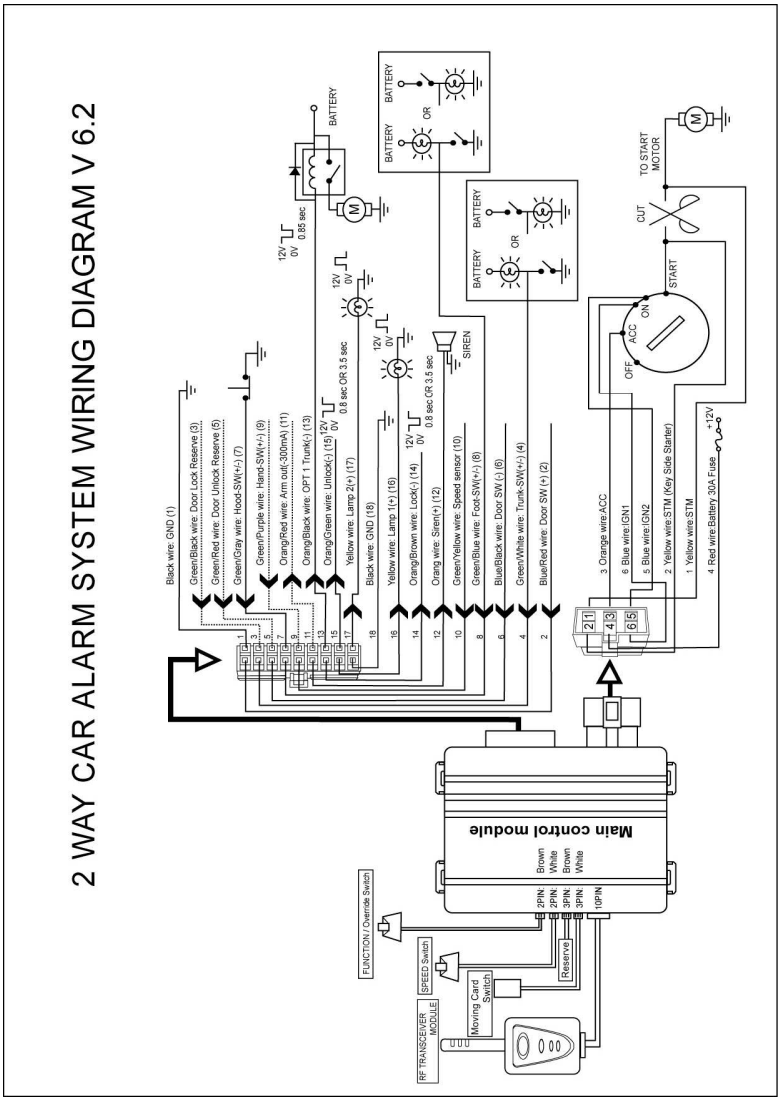
| | | | |
|---|---|---|---|
| 12 | SIREN | 2A /12V Positive Output | |
| 13 | TRUNK_OPEN | 300mA Negative Output | |
| 14 | CEN_LK | 300mA Negative Output | |
| 15 | CEN_ULK | 300mA Negative Output | |
| 16 | LAMP_R | 10A /12V Positive Output | |
| 17 | LAMP_L | 10A /12V Positive Output | |
| 18 | GND | | |

(二)POWER PORT

| | | | |
|---|---|---|---|
| | | | |
| 01 | IGN2 Relay | 40A/12V Positive Output | |
| 02 | ACC Relay | 40A/12V Positive Output | |
| 03 | START MOTOR Relay | 40A/12V Positive Output | |
| 04 | IGN1 Relay | 40A/12V Positive Output | |
| 05 | BATTERY | | |
| 06 | START KILLER Relay | 40A/12V Positive Output | |

3. Working Temperature : -40 ~ +85 ℃
4. Storage Temperature : -50 ~ +125 ℃
5. Dimension: 145×98×32mm

# Installation Diagram



# Certificates Approvals

RC1 FCC ID.: SPP9500RC1

TR1 FCC ID.: SPP9500TR1

This device complies with Part 15 of the 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.

NOTE: The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: To comply with the FCC RF exposure compliance requirements, this device and its antenna must not be co-located or operating to conjunction with any other antenna or transmitter

# Limited warranty

1. The manufacturer will repair or replace to consumer under normal installation, use and service during the first 12 months of the warranty
2. Warranty is limited to defective parts and replacement part only and excludes any incidental damage and natural disaster and improper operation
3. After the first 12 months of the warranty period, there will be a charge for repairing and replacing any defective parts.
4. The manufacturer doesn’t take the responsibility if the warranty labor is removed.
5. All two way alarm system warranty is 12 months from the date of purchase. The warranty will not be issued again if you lost the original warranty.

| Tyntek two way car alarm system warranty | | | |
|---|---|---|---|
| Model | | ID code | |
| Customer's name | | TEL | (　　) |
| Mailing address | □□□ | | |
| Purchase date | | | |
| Distributor's stamp | | | |

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