

Push Button Engine Start System



User Manual








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Warning:

1. When you leave the car with Remote Control and lock the doors, please make sure there is no passenger especially child whose body is staying on the slide rail of the open window to avoid any injury.
2. The user shall take the Remote Control along with him/her and take good care of it. (Please do not leave the Remote Control in the car to avoid loss caused by Remote Control battery low or electromagnetic interference.)

Functions of Remote Control

Operation guide:

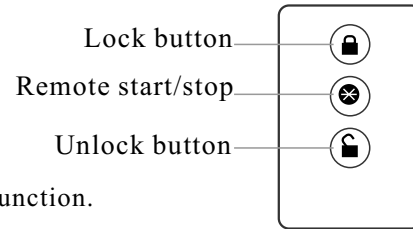
1. Press  button: arm and lock
2. Press  button: disarm and unlock
3. Press and hold  button for 3 sec.: trunk release
4. Press the Function button: car finding with sound and light
5. Press and hold the Function button for 3 sec. in armed mode: remote engine start
6. Press  +  buttons at the same time, the horn beeps twice to turn OFF the PKE function.
(Only 3300 series have this function.)
7. Press  +  buttons at the same time, the horn beeps 3 times to turn ON the PKE function.
(Only 3300 series have this function.)
8. Press the Function button while stepping on brake pedal: Start/Stop engine

The intelligent Remote Control is an intellisense electronic device.






Please follow the following instructions to avoid damage.

1. Don't put the Remote Control in an environment with damp, sunshine or high temperature.
2. Don't dismantle the Remote Control. The unprofessional users cannot check the components inside.
3. To avoid strong strike or heavy crash.
4. Don't put the Remote Control together with the metal keys to avoid damage or signal shielding.

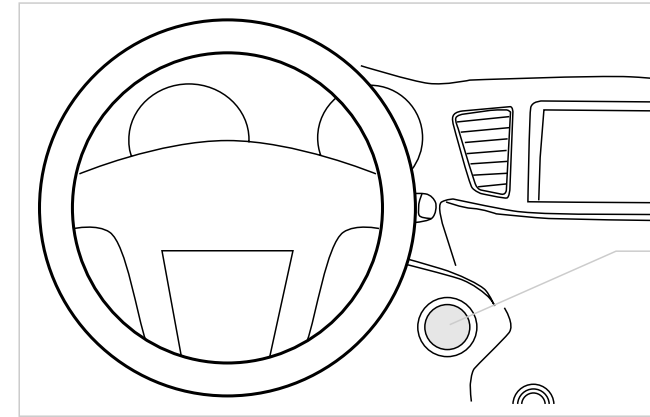
If the PKE function of the Remote Control is not working or the LED indicator is dim or not lit, probably the battery is low. Please check the batteries of the Remote Control and replace them with new ones.



Function button of Remote Control:

-  Remote engine start/stop/Car finding
-  Remote engine start/stop/Car finding
-  Remote engine start/stop/Car finding
-  Remote engine start/stop/Car finding
-  Remote trunk release

Operation Guide of Engine Start



Installation position of ignition button

1. Step on the brake pedal while disarmed, press the ignition button then the engine will start, press the ignition button again the engine will stop.
2. Do not step on the brake pedal while disarmed, press the ignition button to turn on ACC-ON-OFF-ACC successively.
3. Step on the brake pedal while disarmed, press the Function button on the Remote Control the engine will start, press the Function button again the engine will stop.
4. Do not step on the brake pedal while disarmed, press and hold the ignition button for 15 seconds the engine will start. While the engine is running, press and hold the ignition button for 5 seconds the engine will stop.
5. Automatic Transmission Car: While armed, press and hold the Function button on the Remote Control, the engine will start. Press and hold the Function button again the engine will stop.
6. Manual Transmission Car: Do not turn off the engine with the ignition button, shift the gear selector in Neutral position, pull the hand brake on, open and close all the doors, press and hold the Function button on the Remote Control to turn off the engine. While the car is in armed state, press and hold the Function button of the Remote Control to start the engine, press and hold the Function button again to turn off the engine.
(Note: For manual transmission car, if the engine is stopped by pressing the ignition button, then the engine cannot be started with the Remote Control. For safety purpose, please follow this instruction.)

Important Notice:

The factory setting of the remote engine start function is OFF for manual transmission car. If the user wants this function please apply for it from the dealer.

System features

Technical Parameters

Control Module:

Operating Voltage: 12V±3V
Operating Current: 35mA in average
Static Current: ≤18mA
Operating Frequency: 433.92MHz or 315MHz

Digital Keypad:

Operating Voltage: 5V
Operating Current: 6mA
Static Current: ≤10uA

Remote Control:

Operating Voltage: 3V
Operating Current: <10uA
Battery Specs: CR2032 Lithium Battery
Operating Frequency: 433.92MHz or 315MHz

PKE (Passive Keyless Entry)

Turn off the ignition, open and close all the doors, the system will arm and lock the doors when the user walks about 3 to 5 meters away from the car with the Remote Control. When the user approaches to the car within 1 to 2 meters with the Remote Control, the system will disarm and unlock the doors.

Note: Only 3300 series have this function.

Push Button Engine Start/Stop

When the user approaches to the car with the Remote Control, the system will disarm. Step on the brake pedal (the indication light on the push button will flash), press the push button then the engine will start. Step on the brake pedal, press the ignition button when the engine is running to turn off the ignition.

If the user doesn't step on the brake pedal after getting in the car, the first press of the ignition button will turn on the ACC, the second press will turn the ignition ON and the third press will turn off the ignition. While the engine is running, if the user doesn't step on the brake pedal, the engine can be stopped by pressing and holding the ignition button for 3 seconds.

Automatic Window Closing (Optional)

Turn off the ignition, open and close the doors, the system will lock the doors and enter into armed state. The window closer will detect whether the windows are closed or not and roll up the unclosed windows in turn automatically (for some models of cars 4 windows will roll up at the same time). (Note: This is an optional function and some models of cars cannot achieve the automatic window closing. Please check it out before you install our product.)

Warning: When you leave the car with Remote Control and lock the doors, please make sure there is no passenger especially child whose body is staying on the slide rail of the open window to avoid any injury.

System features

Remote Engine Start/Stop

When the car is in armed mode, press and hold the Function button on the Remote Control to start the engine. The started engine will keep on running for 15 minutes. If the user doesn't open any door to enter the car then the engine will stop automatically after 15 minutes. If the engine is started by the Remote Control and when the user approaches to the car with Remote Control, the system will unlock and disarm. The user can drive the car directly and there is no need to start the engine again. The remote started engine can also be stopped by pressing and holding the Function button on the Remote Control. There are two models for remote start: AT (Automatic Transmission Car) and MT (Manual Transmission Car). Please select AT or MT mode by Dip Switch during installation. (Please refer to the installation diagram.)

AT mode: In armed mode, the car can be started by pressing and holding the Function button on the Remote Control.

MT mode: This mode is especially designed for the manual transmission cars. In MT mode, if the engine is stopped by pressing the ignition button then you cannot start the car with the Remote Control. If you want to start the engine with Remote Control, then you have to make sure the gear selector is in Neutral position and the hand brake is engaged, then open and close all the doors, press and hold the Function button on the Remote Control to stop the engine. Next time you may start the engine with Remote Control before driving. (This is to avoid accident for manual transmission cars if the gear selector is not in Neutral position when starting the engine with Remote Control.)

Note: If the setting of the remote start function is not according to the manual, our company will not bear any responsibility for the loss caused by the moving of the car after remote engine start.

Automatic Door Lock/Unlock (Optional)

The central door lock will automatically lock while stepping on brake pedal 15 seconds after the engine is started. The central door lock will automatically unlock when the engine is turned off.

Closing Door Reminder When Arming (Optional)

When the user locks the doors, if any door is not closed properly, the car horn will sound to remind the user to close the doors.

System features

Remote Trunk Release

Press and hold the unlock button for 3 seconds, the trunk will open. (If the car is equipped with trunk release mechanism.)

Remote Control Battery Low Indication

If the intelligent Remote Control is battery low, the car horn will sound 5 times when the user leaves the car or presses the lock button to arm the system and lock the doors. When the user approaches to the car or presses the unlock button to disarm the system and unlock the doors, the car horn will also sound 5 times. This is to remind the user to change the battery.

Note: When there is indication to show that the battery is low, it can still last about one week. If the battery is not replaced within one week, the system will shut down the PKE function automatically and the user has to arm or disarm the system by pressing Lock or Unlock button on the Remote Control. The battery of the Remote Control can maximum last one week more in manual mode and the user has to replace the old battery.

Car Battery Low Protection

If the car battery is low due to the car is parked for a long time without driving or the battery is aging, the system will detect the voltage of the battery automatically and shut down the PKE function to protect the car battery.

Intelligent Detection in Remote Start

When you start your car with Remote Control, the system will detect whether the engine starts successfully or not. If it fails to start because of cold weather or the other reasons, the system will try the second time and increase the crank time. The system will try to start maximum 4 times in total until the engine is started.

Intelligent Power Off in Armed Mode

When the car is in armed mode, the power of the start system will be cut off and you cannot start your car even with the original car key.

Digital Keypad

Installation position and points to be noted:

- 1.Please install the touch screen keypad on the inner side of the rear or front windshield.
- 2.Please stick the touch screen tightly on the windshield.
- 3.Please cut the metal heat-insulating film to install the touchscreen keypad for some car models.

How to use the touch screen Keypad for Emergency Override:

In case the Remote Control malfunctions or is battery low, the user may use the touch screen keypad to disarm the system. The procedures are as following:

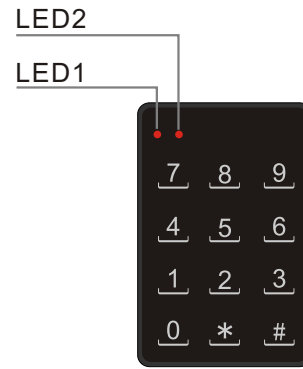
1. While the system is in armed state, press # key twice, LED2 will light solid indicating the keypad is turned on. Input the password then press * key to finish.

Note: When inputting the password, LED1 will flash once for each press of the digital key. If LED1 doesn't flash indicating the input is invalid.
2. If the password is correct, LED1 and LED2 will flash rapidly and the system will disarm. LED1 and LED2 will stop flashing 2 sec later.
3. If the password is not correct, LED2 will flash 6 times rapidly and be ready for the next input. There are 3 chances to input the password. If the wrong password were input 3 times then both LED1 and LED2 will flash slowly for 30 minutes and will not accept the next input within 30 minutes. (Within 30 minutes the system can only be disarmed by Remote Control.)

How to set the password:

1. While the system is in disarmed state, press # key twice, LED2 will flash slowly and the system will enter into password setting process.
2. Press the digital keys to input 4 to 8 digit new password, press * key to confirm, LED2 will flash and input the password again immediately then press * key to finish.

Note: When inputting the password, LED1 will flash once for each press of the digital key. If LED1 doesn't flash indicating the input is invalid.
3. If the setting of password is successful, LED1 and LED2 will flash rapidly at the same time and stop 2 seconds later. If the setting of new password is not successful please set again.



TIPS FOR TROUBLE SHOOTING

Problems	Reason Analysis	Solutions
Approach the car with Remote Control, the system will not disarm (unlock)	<ol style="list-style-type: none"> 1. Whether lock with the original Remote Control 2. Remote Control battery low 3. Car battery low 	<ol style="list-style-type: none"> 1. Use the original Remote Control or the spare key to manually unlock the doors. 2. Replace the old batteries with new ones 3. Use the intelligent Remote Control or car key to manually unlock the doors.
The car horn is sounding after installation of the Control Module and cannot be stopped by the Remote Control	<ol style="list-style-type: none"> 1. Check whether the plug of the Control Module was wrongly plugged in. 2. Check whether the GND wire is firmly grounded 3. Check whether the codes of the Control Module and the intelligent Remote Control match or not. 	<ol style="list-style-type: none"> 1. Plug the connector again correctly. 2. Ground the GND wire firmly, it's better to connect it to the metal part of the car body. 3. Find out the Remote Control which matches the Control Module.
A moment after the system armed, the car horn begins to sound, but the system can be disarmed with the intelligent Remote Control.	<ol style="list-style-type: none"> 1. Check whether all the doors are closed properly or not. 2. Check whether the door pin switch malfunctions or not. 3. Check the wire connections are correct or not. 	<ol style="list-style-type: none"> 1. Close all the doors correctly. 2. The continuous alarming of the system most probably results from the malfunction of the door pin switch. If the system begins to alarm 10 sec. after press the Lock button on the Remote Control with all the doors closed, disarm the system and arm again, the alarming continues, then we may decide the problem is from the door pin switch. Please replace the door pin switch. 3. Please check whether the door trigger wire and the brake wire are correctly connected or not.
The engine cannot be started by pressing the ignition button.	<ol style="list-style-type: none"> 1. Check whether the indicator of the ignition button will flash or not when stepping on the brake pedal. 2. Check the gear selector of automatic transmission car is in P position or not. 	<ol style="list-style-type: none"> 1. If the indicator of the ignition button doesn't flash, please check the connection of the foot brake wire is correct or not. 2. Shift the gear selector to P position.
When PKE function is ON, the LED indicator of the Remote Control flashes when approaching to the car but the system doesn't respond.	<ol style="list-style-type: none"> 1. Check whether the Remote Control is battery low or not. 2. Check whether the Remote Control is broken or soaked. 3. Check whether there is equipment with strong interference around. 	<ol style="list-style-type: none"> 1. Replace the old batteries with new ones. 2. Please contact the dealer or use another Remote Control. 3. Leave the place with interference.
<p>About the checking of the intelligent Remote Control please compare it with another one. If one doesn't work but the other works well then we can decide there is problem with one Remote Control. Check whether the Remote Control is battery low or soaked, etc. If both of the intelligent Remote Controls do not work properly then probably there is interference.</p>		

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To assure continued compliance, any changes or modifications not expressly approved by the party Responsible for compliance could void the user's authority to operate this equipment. (Example- use only shielded interface cables when connecting to computer or peripheral devices).

This equipment 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.

Caution!

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user authority to operate the equipment.

Declaration of Conformity

We, Zhongshan Auto Electronics Technology Co., Ltd. declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.