

EASYGUARD

EC003N PKE Car Alarm User Manual & Installation Guide



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Dear Customer,

Thank you for purchasing EASYGUARD EC003NB series PKE car alarms. This alarm is with latest PKE (passive keyless entry) technology, remote engine start, keyless go & more functions. Please read the user manual and wire diagram carefully before you start installation. Once the alarm is properly installed, it can improve the safety of your vehicle greatly & can bring you more convenience.

This product can work on petrol or diesel vehicle, automatic transmission, or manual transmissions with DC12V vehicles.



This product is not fit for vehicle with factory/OEM push start button already.

Important:

This product is recommended to be installed by a professional car alarm installer or trained alarm installer only! Any attempt to install this product by any person but not a trained professional car alarm installer may result in severe damage to the vehicle or the components.

If you want to do DIY installation, please study all the user manual and wiring diagram carefully before you start and only make sure you understand everything then start the installation. You may need to search on the internet for your vehicle wiring diagram if necessary, and learn how to find the related wires and how to connect them properly. If there is any question, please contact EASYGUARD authorized dealer or contact EASYGUARD electronics directly for help.

Safety Warning!

The following safety warnings must be observed at all the time:

Due to the complexity of this system, installation of this product must be finished by a professional car alarm installer or trained alarm installer.

Once the product is properly installed, this system can remote start the vehicle by a command signal from the remote control. Therefore, never operate the system in an area that does not have adequate ventilation. The following precautions are the sole responsibility of the user; however, authorized EASYGUARD Electronics dealers should make the following recommendations to all users of this system:

1. Never operate the system in an enclosed or partially enclosed area without ventilation (like a garage).
2. When parking in an enclosed or partially enclosed area or when having the vehicle serviced, the remote start system must be disabled.
3. It is the user's sole responsibility to properly handle and keep out of reach from children all remote controls and other accessories in the kit to assure that the system does not remote start the vehicle occasionally.

USER MUST INSTALL A CARBON MONOXIDE DETECTOR IN OR ABOUT THE LIVING AREA ADJACENT TO THE VEHICLE. ALL DOORS LEADING FROM ADJACENT LIVING AREAS TO THE ENCLOSED OR PARTIALLY ENCLOSED VEHICLE STORAGE AREA MUST REMAIN CLOSED AT ALL THE TIMES.

Use of this product in a manner contrary to its intended mode of operation may result in property damage, personal injury, or death. Except when performing the safety check indicated in this installation guide,

- (1) Never remote start the vehicle with the vehicle in gear, and
- (2) Never remote start the vehicle with the keys in the ignition. If the vehicle starts in gear, cease remote start operation immediately and consult with the user to fix the problem immediately.

Remote starters for manual transmission pose significant risks if not properly installed and operated. When testing to ensure the installation is working properly, only remote start the vehicle in neutral gear, on a flat

surface and with a functional, fully engaged parking brake. Do not allow anyone to stand in front of or behind the vehicle.

Installation Guide

Before Starting the Installation

Please read all the installation guide before starting the installation. The installation of this PKE alarm with remote start system requires interfacing with many of the vehicle's systems. Many new vehicles use low-voltage or multiplexed systems that can be damaged by low resistance testing devices, such as test lights and logic probes (computer safe test lights). Test all circuits with a high quality digital multi-meter before making connections.

Do not disconnect the battery if the vehicle has an anti-theft-coded radio. If equipped with an air bag, avoid disconnecting the battery if possible. Many airbag systems will display a diagnostic code through their warning lights after they lose power. Disconnecting the battery requires this code to be erased, which can require a visit to the car dealer.

To avoid accidental battery drainage, turn off the interior lights or remove the dome light fuse.

Roll down a window to avoid being locked out of the car.

1. Check the Packing List:

Full set device should include following components:

Control module x1

Key fob/remote x2

Push start button x1

Alarm antenna: x1 (Red color connector)

PKE antenna: x2

6Pin ignition wire harness: x1

10Pin main wire harness: x1

English user manual & wiring diagram x1

Shock sensor: x1(Optional, check with your product version)

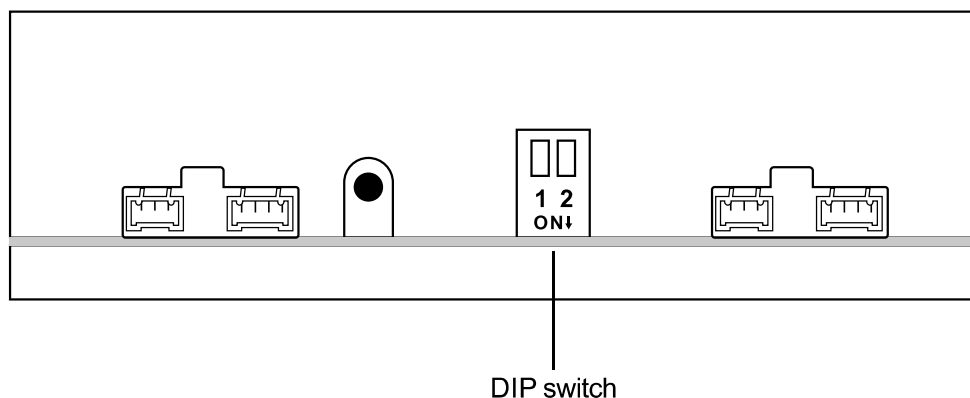
Important:

Only start installation when you receive all the accessories.

If there is any missing part, please stop installation immediately and contact your vendor/sales rep right away for assistance.

2. DIP Switch Setting on Control Module

Please set the DIP switch on the control module to fit for your vehicle before making any wire connection. See DIP switch as below picture:



DIP switch	When press up	When press down
DIP switch No. 1	For automatic transmission vehicle	For manual transmission vehicle
DIP switch No. 2	For gas engine	For diesel engine

Note:

There are 2 DIP switches on the control module. Below is each switch function:

Switch No. 1: When press up is for automatic transmission setting, when press down is for manual transmission setting

Switch No. 2: When press up is for gas/petrol engine setting, when press down is for diesel engine setting.

Important:

We recommend you reset the DIP switch before making any wire connection, if the control module is already connected with the wires, you have to follow with below instructions to reset the switches:

Step 1: Un-plug the 6pin ignition wire harness & 10pin wire harness to cut off power of the device

Step 2: Press up or down the related DIP switch you plan to reset on control module

Step 3: Re-plug the 6Pin ignition wire harness & 10 pin wire harness to re-power the device.

When both DIP switches are press up, the control module will beep twice when with power

When both DIP switches are press down, the control module will beep once when with power

When one DIP switch is press up & the other is press down, the control module will not beep when with power

3. Deciding on components locations

Control module

Some things to remember about where to mount the control module:

Never put the control module in the engine compartment!

The first step in hot-wiring a vehicle is removing the driver's side under-dash panel to access the starter and ignition wires. If the control module is placed just behind the driver's side dash it can easily be disconnected.

When mounting the control module, try to find a secure location that will not require you to extend the harnesses' wires. Keep it away from the heater core (or any other heat sources) and any obvious leaks.

Some good control module locations are: Above the glove box, inside the center console, above the under-dash fuse box, or above the radio.

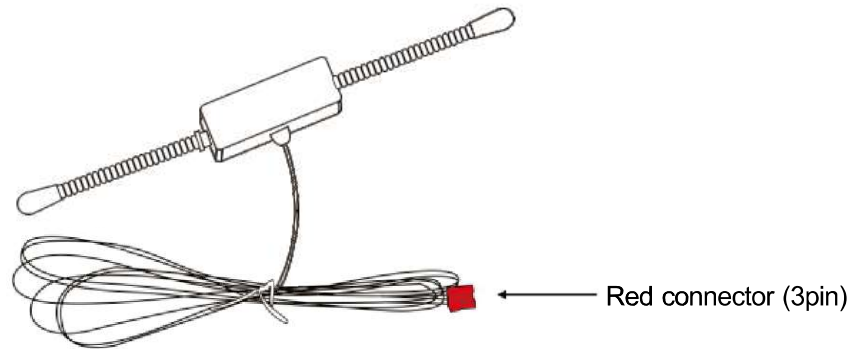
Antenna introduction

There are 3 antennas in the kit. Among them, one is alarm high frequency antennas and 2 are PKE antennas. Here is some information of them respectively:

Name	Connector size & color	Wire length (in)	Recommend mount position
Alarm antenna (1.28m)	Red, 3pin	50.39	P1(A pillar near the cab) or P2(under the steering wheel) position
PKE antenna (2m)	Black,3 pin	78.74	Inside upper middle front windshield (P3 position)
PKE antenna (4.0 m)	Black, 3 pin	157.48	Inside upper left of rear windshield (P4 position)

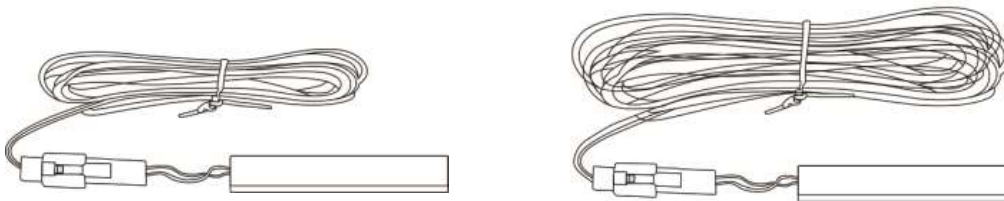
Alarm Antenna:

The high frequency antenna is with white color connector (3pin)



PKE antenna

There are 2 PKE antennas



2 M PKE antenna

4M PKE antenna

Warning:

All the antennas are fragile and easy to break, please handle with care when mount them or plug/ unplug them. do not pull the antenna to avoid the wires break off.

Here is the recommendation mount position for each of them:

IMPORTANT :

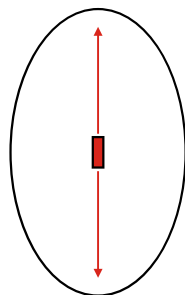
Never mount the PKE antennas on any metallic surface as this will decrease the PKE induction range obviously

In order to have a stable PKE induction range, secure the PKE antenna & make sure they will not move or dangle

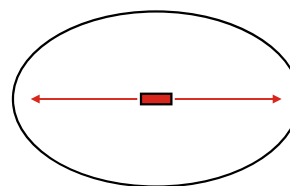
The PKE antennas are fragile & easy to break, pleas handle with care when mounting them or plug/unplug them when installation. Please also make sure they are mounted on a solid (non-flexible) surface.

Recommended PKE antenna mount position

The recommended PKE antenna mount position is for reference only. And we'd like to recommend you to adjust the PKE antenna mount position to get a maximum PKE induction range.



Vertical range

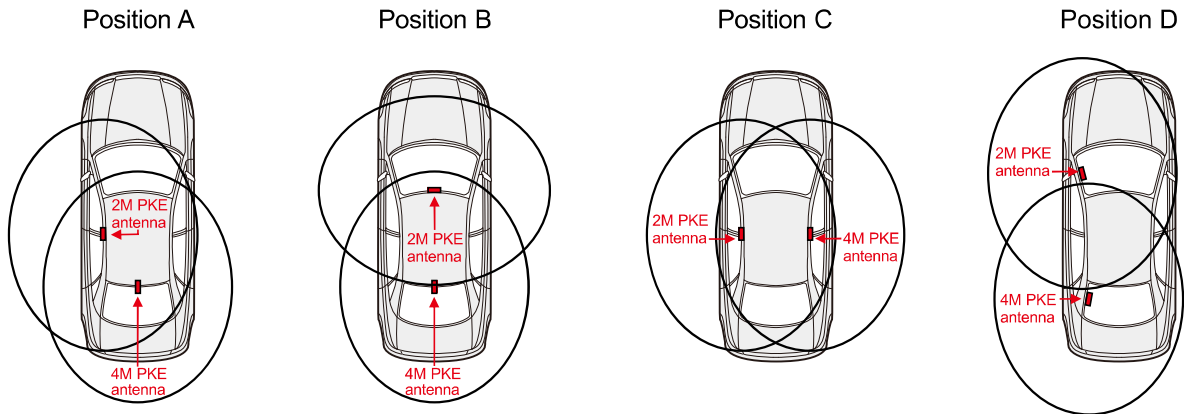


Horizontal range

As the PKE antenna is a directional antenna, the PKE induction range will be affected by the antenna placement/mounting position.

PKE antenna mount position

Position B is the most common and widely used one.



Some suggestions about the PKE antenna mount position for different vehicles:

For sub compact, compact & sedan:

For optimal performance, mount the 4M PKE antenna in the headliner or below the rear deck.

IMPORTANT:

Mount the PKE antenna in the trunk will greatly affect and reduce the PKE induction range and overall system working performance.

Pickup (with cab) & cargo:

Mount the 4M PKE antenna in the bumper, behind the license plate.

Pickup (without cab):

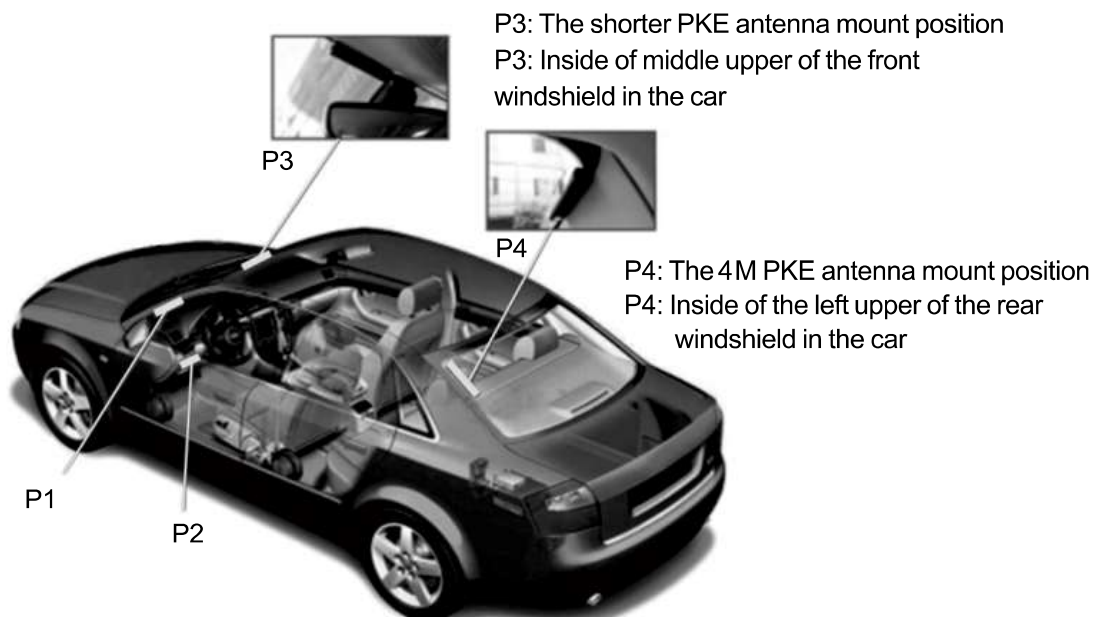
Recommend the PKE antenna on position C. the PKE antennas should be mounted on the driver and passenger side as the tailgate does not require to be controlled.

Convertible:

Mount the 2M PKE antenna in front windshield pillar on driver side and the 4M PKE antenna behind the rear seats.

Note: On vehicle with fiberglass bodies or convertibles, the PKE induction range will be increased.

Once finish mount the PKE antenna, the front PKE antenna and the rear PKE antenna looks like "T" shape



P1 or P2: High frequency antenna mount position.

P1: A pillar near the cab in the car

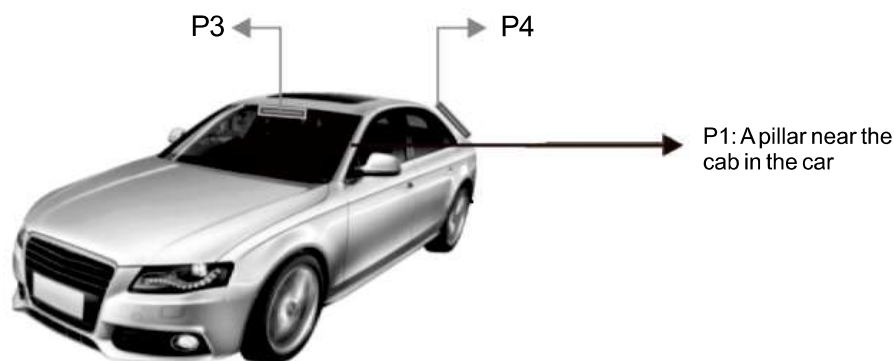
P2: Under the steering wheel

User can choose to mount the high frequency antenna on P1 or P2 position.

Important:

All the recommend mount position is for reference only and user can adjust the mount position to get a maximum antenna working range

Try your best to keep all the antennas away from any metal product.



Making Your Wiring Connections

Before making your connections, plan how your wires will be routed through the vehicle. For instance, the red 12V constant input and the remote start ignition wires will often be routed together to the ignition switch harness. In order to keep the wiring neat and make it harder to find, you may wish to wrap these wires together in electrical tape or conceal them in tubing similar to what the manufacturer used.

There are two acceptable ways of making a wire connection - solder connections and crimp connectors. When properly performed, either type of connection is reliable and trouble-free. Regardless of whether you solder your connections or you use mechanical type crimp on connections, ensure that all connections are mechanically sound and that they are insulated.

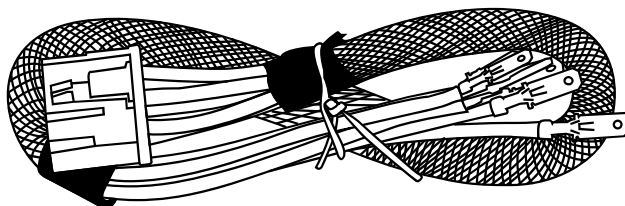
Cheap electrical tape, especially when poorly applied, is not a reliable insulator. It often falls off in hot weather. Use good-quality electrical tape or heat shrink.

Never twist-and-tape the wires together without soldering.

Never use "fuse taps", as they can damage fuse box terminals.

Main Wiring Harness Introduction

1. 6-Pin ignition wire harness



Wire colors	Wire usage	Remark
White	Connect with ignition 1 wire (IG1)	See note 3,4,5,8
Brown	Connect with ignition 2 wire (IG2)	See note 4,5
Orange	Connect with Accessory (ACC)	See note 6,8
Yellow	Connect with starter wire	See note 7
Red	Connect with constant +12V	See note 2
Black	Connect with chassis ground	See note 1

NOTE (1-8):

1. Connect the black wire with chassis ground wire in your vehicle.
2. Connect all the constant +12V wire in your vehicle ignition with the +12V red wires in the car alarm
3. White ignition 1 wire: When turn the key to ACC or ON position, this wire with electricity, when starting the car, this wire still with electricity;
4. Brown ignition 2 wire: When turn the key to ACC or ON position, this wire with electricity, when starting the car, this wire will cut off power suddenly while starting the vehicle;
Once the vehicle is started, both white & brown wires are with electricity.
5. If there is only one ignition wire in your vehicle ignition cylinder, connect it with the white ignition 1 wire in the alarm, no need to connect the brown ignition 2 wire. Or splice the ignition 1 & 2 wire in the alarm together then connect with the ignition 1 wire in your vehicle.
6. Connect all the ACC wires in your ignition with the orange ACC wire in the alarm
7. Connect all the starter wires in your ignition with yellow starter wire in the alarm.
8. If your car is newer cars without ACC (only ON and OFF), connect the ACC (accessory) wire and ignition 1 wires from your vehicle with the White ignition 1 wire in the alarm.

2. 10 Pin Main wire harness

Wire colors	Wire usage	Remark
The first row 5-pin wire		
White/black	Unlock wire (-)	Type B, negative
Brown	Turn signal light/parking light output (+)	
Brown	Turn signal light/parking light output (+)	
Orange	Foot brake input wire (+)	See note 9
Blue	Door trigger input wire (-)	See note 10
The 2 nd Row 5-pin wire harness		
White	Lock wire (-)	Type B, negative
Red-black	Trunk release output (+)	Default is positive (+), can be re-set with negative (-) with the jumper on the PCB, see note 11
Green	Fuel pump input wire (+)	See note 12
Pink	Siren output (-)	Default is negative (-), can be re-set to positive (+) with the jumper on the PCB, see note 14
Gray wire	GWR wire (-) or chip immobilizer output (-)	See note 13

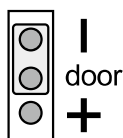
Note 9:**Wiring method of orange foot brake wire (+).**

The orange foot brake wire should connect with the foot brake wire in the vehicle, once connected, when step on foot brake pedal, there should with 12V voltage on the foot brake wire.

Note 10:

Wiring method of blue door trigger wire

The blue door trigger wire (-) default setting is negative (-) door trigger wire with jumper. See diagram as below:

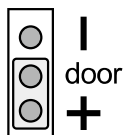


Door trigger jumper, default is negative (-)

If your car is with positive door trigger wire, please reset it with below instruction:

- a. Un-screw & open alarm control module
- b. Take out the jumper and reset it to be positive (+)

See below wiring diagram:



Door jumper(+) setting

Positive door trigger (+) setting

Once you re-set with the door trigger jumper to be positive (+), the blue door trigger wire is changed to be positive (+) now.

Note 11

Wiring method for red-black trunk wire (+)

The red-black trunk wire default is with positive (+), if your vehicle is with positive trunk trigger, please connect it with the red-black wire directly;

If your vehicle is with negative trunk trigger, please set the trunk to be negative (-) first, then connect it with the red-black wire

For how to set the trunk to be negative, please refer to jumper setting in the user manual.

Note 12

Wiring method for green fuel pump wire (+)

Connect the green fuel pump wire with fuel pump wire or oil pump wire in the car, if you can't find it, please connect it with ignition 1 wire or tachometer wire. this wire usage is to detect whether the car is started succeed & avoid re-start once it's started already. If this wire not right connected, you can't start the vehicle.

Note 13

GWR wire (-) (Ground while running) or chip immobilizer wire (-) connection

Connect the Gray wire GWR (Ground while running) wire (-) or chip immobilizer wire (-) with your car chip immobilizer wire (-) or GWR wire (-) from the bypass module. No need to connect this wire if there is no GWR wire or chip immobilizer wire in your vehicle.

Note 14

Wiring method of horn/siren.

The pink wire for siren default is negative (-) and which can be changed to positive (+) with jumper on control module PCB.

If your vehicle factory horn is negative output, you can connect the pink wire with it directly;

If you are connecting with an electrical siren like 6 tone or 1 tone siren, please connect the pink wire with black wire of the siren and connect the red wire from the siren with constant 12V wire. Or change the horn to be positive via the jumper.

Some things to remember about mounting the siren:

Keep it away from heat sources, such as radiators, exhaust manifolds, turbo-chargers, and heat shields.

Mount it where a thief cannot easily disconnect it, whether the hood is open or shut. Both the siren and its wires should be difficult to find. This usually involves disguising the wire to look like a factory harness.

We do not recommend grounding the siren to its mounting screws. Instead, we recommend running both the red and black wires into the passenger compartment and grounding to one common point for all devices. Both wires are the same length and come already bonded together to make it easier. Whenever possible, conceal your wires in the factory harnesses or in the same style loom as the factory.

If possible, place the siren on the same side of the vehicle as the control module, where its wires will reach the control module's wires without extending them. Always run the wires through the center of a grommet, never through bare metal!

When installation the siren, please make sure which is downward for waterproof consideration

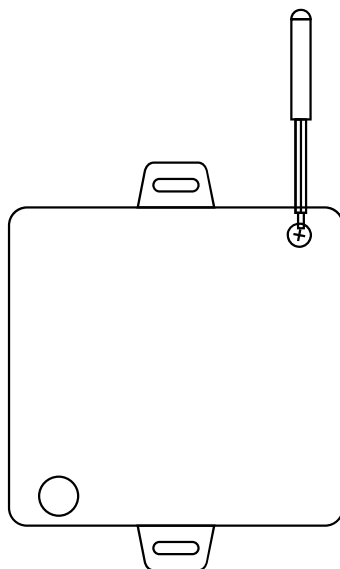
Jumper setting

There are 3 jumpers on the control module as below:

Jumper type	Default setting	Remarks
Door trigger (DOOR)	Default is negative (-)	Can reset to be positive (+)
Horn (SPK)	Default is negative (-)	Can reset to be positive (+)
Trunk (TRUNK)	Default is positive (+)	Can reset to be negative (-)

How to re-set the jumper?

Step 1: Unscrew the control module



Step 1

Step 2: Open the control module

Step 3: Reset the jumper on the PCB of the control module.

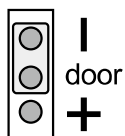
Door : Door jumper +/- setting

SPK : Speaker +/- setting

TRUNK : Trunk jumper +/- setting

Step 4: How to set positive or negative? Here is as example of the door trigger setting:

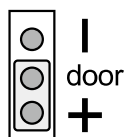
The door trigger jumper (-) default setting is negative (-) door trigger wire with jumper. See diagram as below:



Door trigger jumper, default is negative (-)

If your car is with positive door trigger wire, please take out the jumper and reset it to be positive (+)

See below wiring diagram:



Door jumper(+) setting

Positive door trigger (+) setting

Now the door trigger jumper is changed to be positive (+).

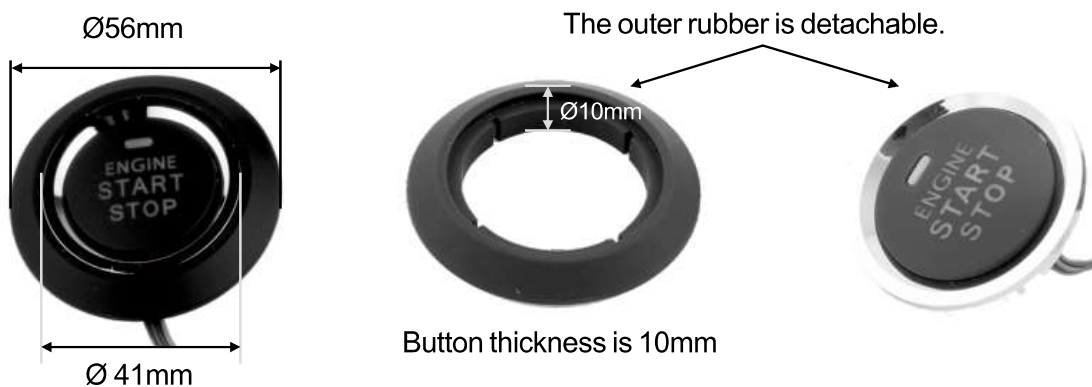
It's same method for others jumper setting.

Engine Start button introduction

There are 6 types engine start button available for options as below:

The device default is with P2 style push start button, you can choose your preferred push start button as well.

P1 style engine start button



P1 button size: Ø56x10mm(with rubber), Ø 41x10mm(no rubber),

P2 style engine start button



P1 button size: Ø 41x10mm(no rubber)
Ø 52x10mm(with rubber)

The outer rubber ring is detachable.

P3 style push start button



The ring is detachable

P4 style engine start button

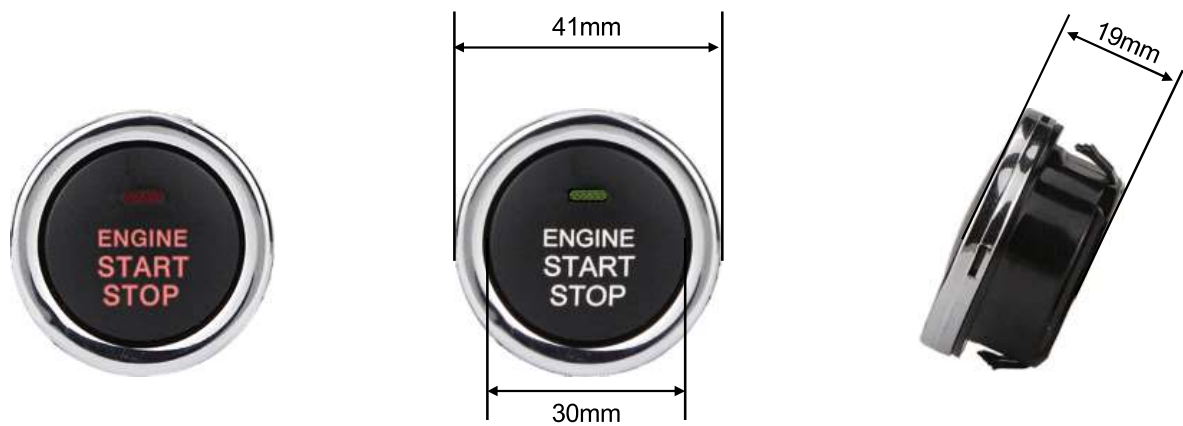


The ring is detachable

P5 style engine start button



P5N style engine start button



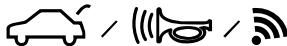
P7n style engine start button

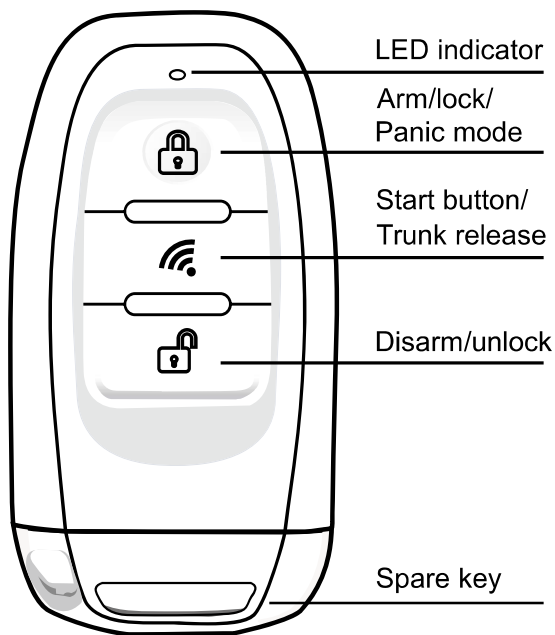


Engine start button color changes for different operation

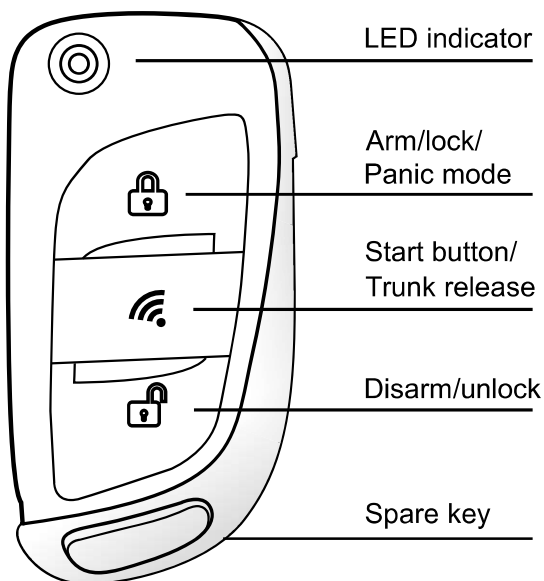
Engine start button style	When armed	When disarm	Turn on ACC	Turn on ON	Stepping On foot brake pedal	When started engine	When engine cut off & key in PKE range	When engine cut off & key out of PKE range	Button size(mm)
P1	Turn off	blue	blue	blue	Blinks blue color	green	blue	Turn off	Ø 41x10 (no rubber) Ø56x10 (with rubber)
P2	Turn off	blue	blue	blue	Blinks blue color	red	blue	Turn off	Ø 41x10 (no rubber) Ø52x10 (with rubber)
P3	Turn off	red	red	red	Blinks red color	red	red	Turn off	Ø27.5x47 (no ring) Ø38x47 (with ring)
P4	Turn off	red	red	red	Blinks red color	red	red	Turn off	Ø27.5x47 (no ring) Ø38x47 (with ring)
P5	Turn off	blue	blue	blue	Blinks blue color	Light red	blue	Turn off	Ø41x64
P5N	Turn off	green	green	green	Blinks green color	red	green	Turn off	Ø41x19
P7n	Turn off	red	red	red	Blinks red color	red	red	Turn off	Ø27.5x47 (no ring) Ø38x47 (with ring)

Key Fobs Button Introduction & Function Description:

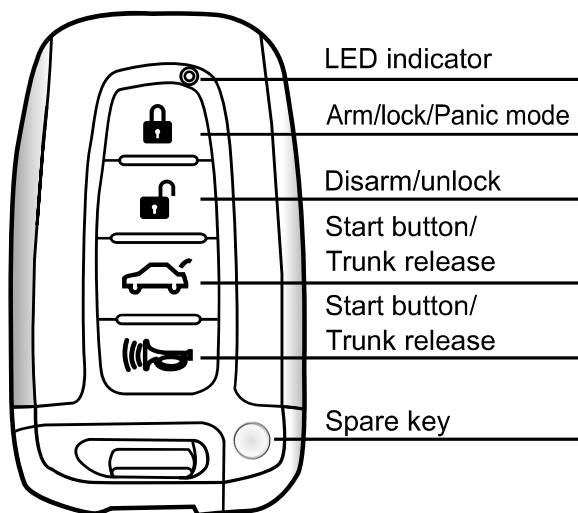
		
Arm/Panic mode	Disarm	Trunk release/start button



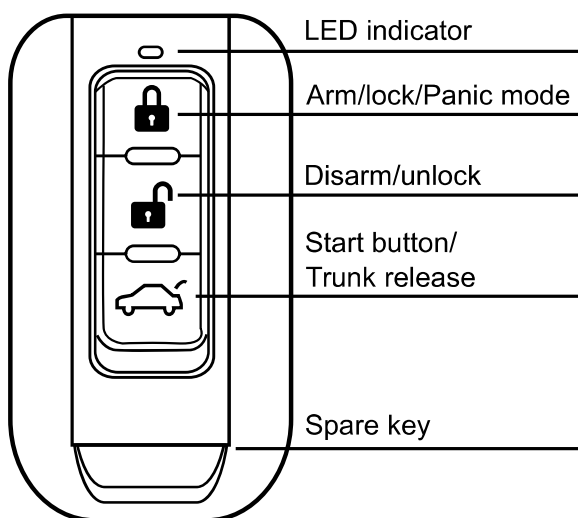
1. Lock/Arm: press lock button  once (turn off PKE function)
2. Unlock/disarm: press unlock button  once (turn on PKE function)
3. Remote engine start: Hold pressing the start button for around 3 seconds.
4. Remote engine shut off: Hold pressing the start button for around 3 seconds (out of PKE induction range)
5. Vehicle finding: short press lock button  once
6. Remote trunk release: Continue to press start button twice.
7. Spare key (default is without, and we recommend you to equip one for future emergency usage)



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5. Vehicle finding: short press lock button  once
6. Remote trunk release: Continue to press start button twice.

Other frequently used function:

1. Valet mode/PKE disable: start the vehicle, hold stepping on foot brake pedal, keep pressing lock  & unlock button  on the key fob at the same time for 5 seconds, siren chirps 5 times and turn signal light flashes 5 times means enter into valet mode (disabled PKE feature); when siren chirps 3 times and turn signal light flashes 3 times means exited valet mode (enabled PKE feature)
2. Mute alarm/audible alarm setting: turn off the vehicle, press lock button  once, then hold pressing lock button  for 3 seconds, if siren chirps twice, the alarm is set to mute alarm status; if siren chirps once, the alarm is set to audible alarm status

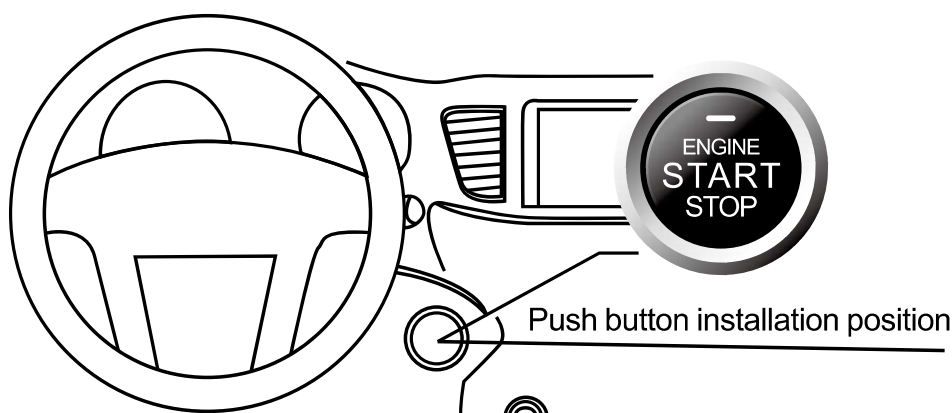
Important: The PKE feature default is turn on. When PKE is on, press lock button  on remote once will turn off the PKE function and lock the vehicle door at the same time. If user want to turn the PKE on again, just press unlock button  once will turn on the PKE function, at the same time the vehicle door is unlocked. This method can turn on/off the PKE feature temporarily.

The remote control is an intelligent electronic device with inductive function. Please follow the following instruction 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. Users can't inspect the components inside.
3. To avoid strong strike or heavy crash.
4. Don't put the remote control together with the metal keys or avoid damage or signal shielding.
5. Don't put the remote control with cell phone or other products will emit strong signal to avoid the signal interference.
6. When one remote control is using, the other remote control will be in sleep mode to save power. If you want to activate it, press any button on it will activate it.
7. If the PKE function of the smart remote control is not working well or the LED indicator is dim or not lit, it's probably due to the battery is low. If so, please check the battery of the remote control and replace it with a new one. The battery is button cell CR2032 battery.

Function description:

1. Push button start/stop



A. When step on foot pedal

1. In disarm status, step on foot pedal, the push button blinks blue colors, short press the push button once, the vehicle will be started. The push button will turn to red color.
Once the vehicle is started, step on foot pedal and press the push button 0.5 second will shut off the

vehicle. At the same time, ACC and ON will be turn off and the push button will turn to blue color when the remote control is nearby and PKE function is enabled.

2. If the push start button was broken or unable to use. User Can start or stop the vehicle with below steps:

In disarm status, step on foot pedal, keep pressing start button on the remote control for 3 seconds, the vehicle will be started.

Step on foot pedal, keep pressing start button 3 seconds on the remote control will shut off the engine and turn off ACC & ON.

B. When do not step on foot brake pedal

1. In disarm status, do not step on foot brake pedal and short press the push button once will turn on ACC. Press the push button once again will turn on ACC & ON dashboard and press it once again will turn off ACC & ON.

In disarm status, do not step on foot pedal, keep pressing the push start button for 3 seconds will turn off ACC and ON dashboard and the vehicle engine will be shut off. The push button will turn to blue color when the remote control is nearby and PKE function is enabled.

C. Long press the button to start the vehicle

In cold winter or other special situation, user can keep stepping on foot pedal and keep pressing the push button for 5 seconds to start the vehicle till the vehicle is started. The maximum long press button time is 5 seconds. If press 5 seconds but still not able to start the vehicle, please try it again.

Notes: Once the vehicle is armed, user unable to start the vehicle by the push button but need to disarm first then press the push button to start the vehicle.

D. Remote engine start for back up purpose:

For some special situation such as there is no brake signal or the brake fuse was failed to work, user can use remote engine start function to start the vehicle, the method is: keep pressing start button on remote control for 3 seconds will remote start the vehicle, once the vehicle is remote started, keep pressing start button for 3 seconds will shut off the engine when user is out of PKE induction range or turn off the PKE feature.

If you are in PKE induction range, you need to press unlock button  on key fobs first, then hold the start button for around 3 seconds to shut off the car within 15 seconds.

2. PKE (passive keyless entry)

Lock: Turn off the engine, exit the vehicle and close all doors well and walk away from the vehicle for 3-5 meters away with the key fobs, the alarm siren will chirp once and turn signal light flashes once to confirm, at the same time will lock the door & arm the vehicle automatically. At the same time, the push button will turn off. (If you want the vehicle window will roll up automatically, you may add an extra window closer module).

Unlock: When user approach the vehicle in 1-2 meters with key fobs, the turn signal light flashes twice & siren chirps twice to confirm, at the same time, the alarm is disarm & vehicle door automatically unlock. The push button will turn to blue color. User can open vehicle door and get on the vehicle directly.

3. Manual arm/lock

Short press lock button  once will lock the vehicle door, turn signal light flashes once and siren chirps once. At the same time, will turn off PKE function temporary, the push button will turn off.

4. Manual disarm/unlock

Short press unlock button  on remote control once will unlock the vehicle door, turn signal light flashes twice & siren chirps twice, the vehicle is disarmed and vehicle door is automatically unlocked. The push start button will turn on blue color and PKE function will enable/turn on at the same time.

When user unlock the vehicle out of PKE induction range, there is only 5 seconds to open the car, or the

device will be back to lock status automatically after 5 seconds.

5. Mute alarm & audible alarm

Turn off the vehicle, press lock button  once, then hold pressing lock button  for 3 seconds, if siren chirps twice, the alarm is set to mute alarm status; if siren chirps once, the alarm is set to audible alarm status

6. Remote trunk release

Keep pressing start button/trunk release button  twice will remote release trunk, turn signal light flash 3 times at the same time.

If there is no trunk release button  on the remote control, press start button or siren icon button  twice will release vehicle trunk.

7. Vehicle finding/locating

In arm status, press lock button  once, turn signal light flashes 5 times and siren chirps 5 times to indicate vehicle location. Press the lock button  once again will stop. Siren will not chirp when the alarm is in mute alarm status.

8. Valet mode on/off setting or PKE enable/disable setting

Start the vehicle, hold stepping on foot brake pedal, keep pressing lock  & unlock button  on the key fob at the same time for 5 seconds, siren chirps 3 times and turn signal light flashes 3 times means enter into valet mode (disabled PKE feature); when siren chirps 5 times and turn signal light flashes 5 times means exited valet mode (enabled PKE feature)

Important:

The PKE feature default is turn on. When PKE is on, press lock button  on remote once will turn off the PKE function and lock the vehicle door at the same time. If user want to turn the PKE on again, just press unlock button  once will turn on the PKE function, at the same time the vehicle door is unlocked. This method can turn on/off the PKE feature temporarily.

9. Remote engine start

For a 3-button remote control, the button except lock button  and unlock button  is the start button.

For a 4-button remote control the button except lock  and unlock  is the start button.

The alarm has two modes for remote engine start, automatic gear vehicle and manual gear vehicle, Default setting is for automatic gear vehicle with DIP switch NO.1 in control module is press up.

1. For automatic transmission vehicle:

When engine is shut off, hold pressing the start button on remote control for 3 seconds will remote start the vehicle. Siren will chirp 3 times and turn signal lights will flash 15 times when vehicle is started. And the door will be automatically locked once vehicle is remote started. If the device detect signal of the remote, the turn signal light will stop flashing.

The started engine will keep running for 15 minutes then turn off automatically if user doesn't unlock the vehicle doors or drive it within 15 minutes.

While the engine is running, if user approach the vehicle within 1-2 meters with the remote control, the door will unlock and the alarm will disarm automatically. User may open the door & drive the vehicle directly and no need to start the engine again.

While the engine is remote started, if user approach the vehicle within 1-2 meters with the remote control but doesn't open the door, then walk away from the vehicle for more than 5 meters away, the vehicle will