

# Smart Trunk Opening System Installation Instructions

Model: KIC0005i

This product is suitable for installation on vehicles equipped with smart keys. In other words, for vehicles carrying the original car key, the trunk can be opened directly by pressing the button on the trunk door.

## Important Notice:

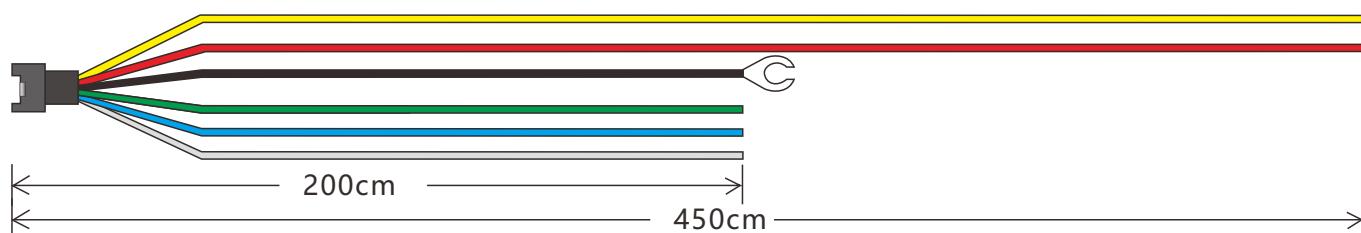
During the installation and wiring process, the provided fuse tubes (or power supply components) must be connected in series. Please strictly follow the wiring instructions in this installation manual. Failure to connect fuse tubes or improper wiring may result in circuit faults, short circuits, or fires.

## List of Accessories :

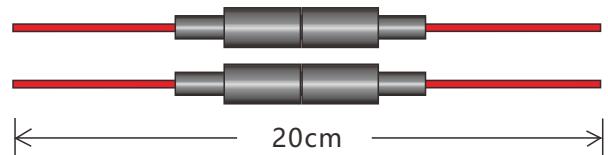
### Sensor Box



### Power Cable Harness

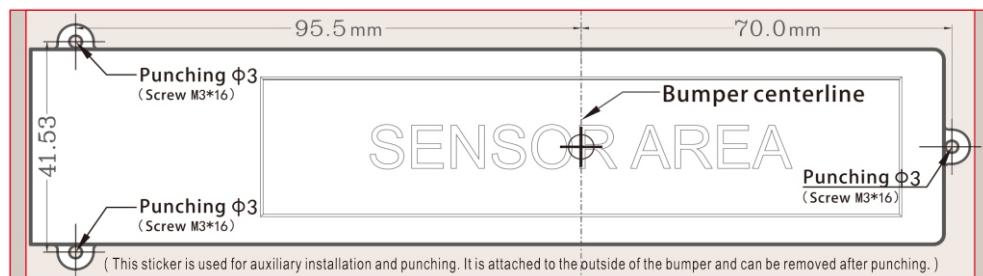


### Insurance pipe



Built-in fuse specification: 6\*30mm glass tube 1A

### Drilling Guide sticker



(This sticker is used to assist in drilling during installation.  
Apply it to the outside of the bumper. It can be removed easily.)

### Screws



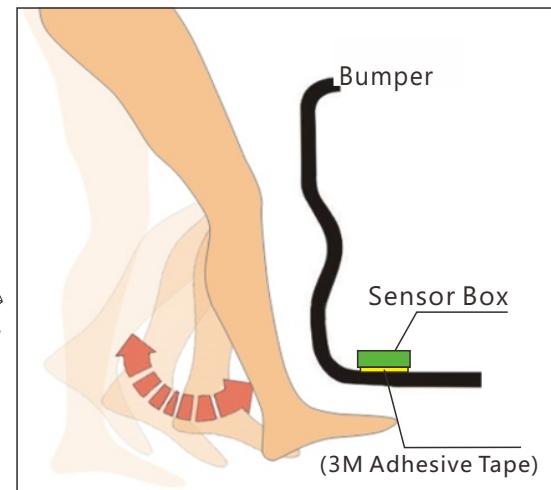
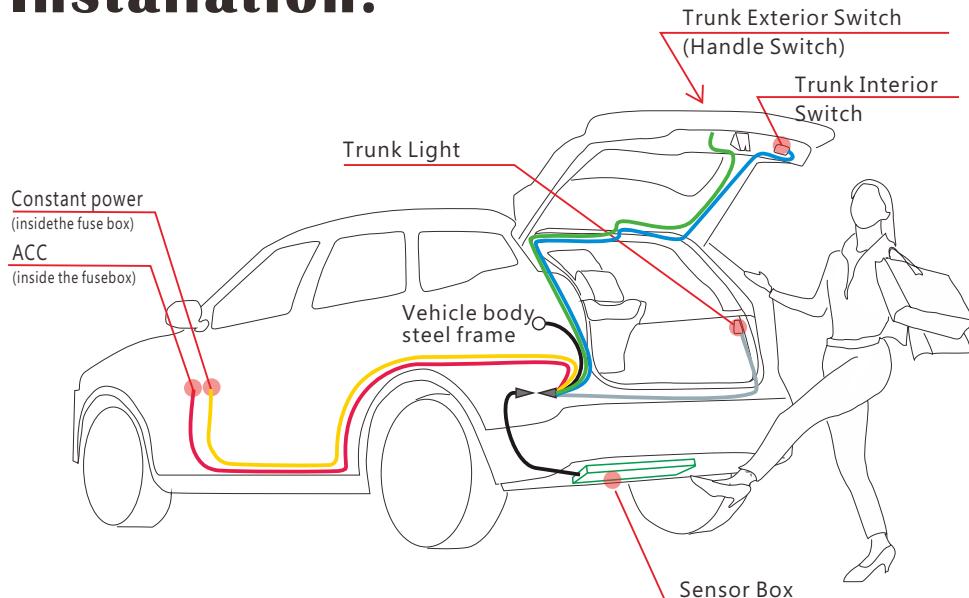
### Foot Kick Icon Sticker



### Precision resistor (For Special Vehicle Models)



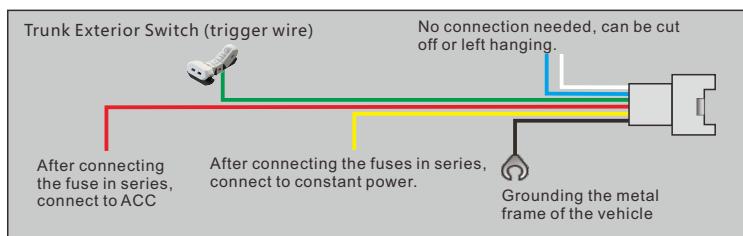
# Installation:



The sensing box should be installed inside the rear bumper, in a position that can be kicked by the feet. The optimal installation distance is shown in the figure:

## 4-Wire Connection method:

(for vehicles with tailgate external switch that can open the door with one press and close the door with another press)



## 6-Wire Connection method:

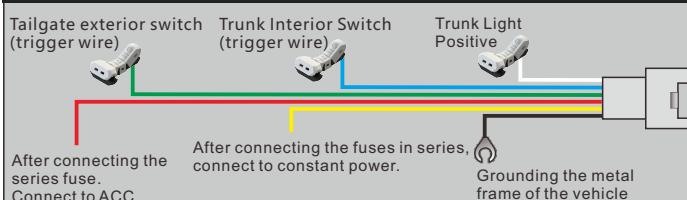
(for vehicles with tailgate external switch that can only open the door and need the internal switch to close the door)

**Ensure that your trunk light does not have a delayed shutdown function**, then, use the trunk light to further determine whether to use the "6-wire disconnect negative" or "6-wire disconnect positive" connection method.

While the **trunk light is off**, test the voltages on positive and negative poles of the light.  
They Are both

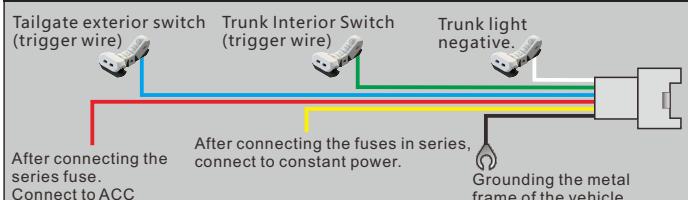
**"0V"**

### 6-wire (disconnect positive) wiring diagram



**"12V"**

### 6-wire (disconnect negative) wiring diagram



If the tailgate lighting does have a delayed turn off function, please connect the white wire to the tailgate status indicator wire (witch is located at the tailgate lock) instead of the trunk light.

**Tips:** When the voltage on the white wire is "0V", the door opening trigger signal will be sent to the green wire. When the voltage on the white wire is "12V", the door opening trigger signal will be sent to the Blue wire.

## Installation Steps:

### Step 1: Functional testing.

Place a plastic or wood stool next to the trunk, put the sensor box on it, ensure that the 3M tape faces the ground. At the time, you can easily see the status indicator of the sensor.

Temporarily connect the wires according to the wiring diagram. Then follow the "Testing and Debugging" section of this manual for functional testing.



## Step 2: Installation position adjustment.

After confirming the normal function, place the sensor box inside the bumper, and thread the sheathed wire into the waterproof position of the vehicle, and connect it to the wiring harness. Adjust the suitable installation position (requirements: convenient for foot kicking, preferably closer to the inside, the sensing surface is vertically facing the ground, and avoid interference from rain on rainy days).

You can stick the *Drilling Guide* sticker outside bumper and record the final position.



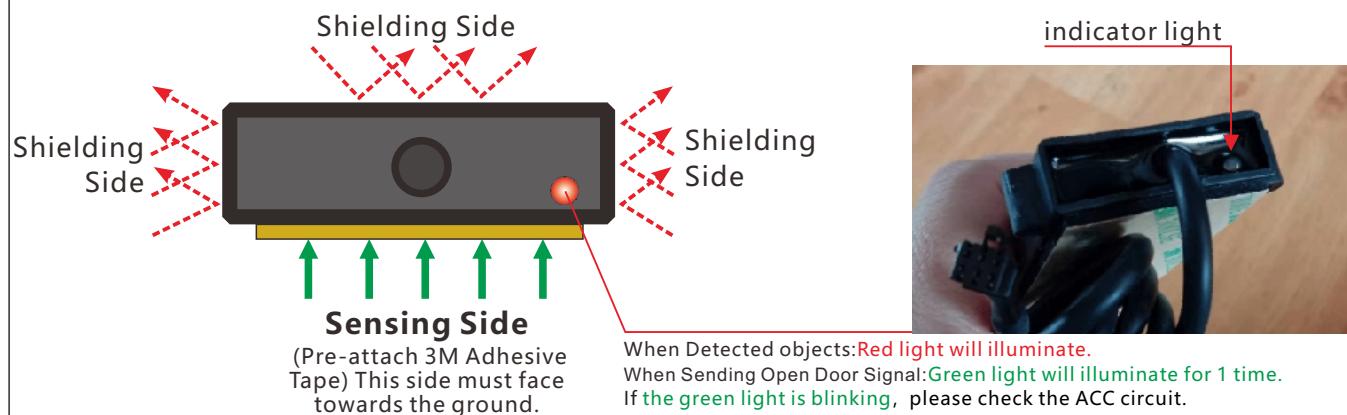
## Step 3: Formal fixation.

After smooth debugging, formally fix the sensor box. It is recommended to use screws for fixation. If conditions are not available for screw fixation, use 3M adhesive for fixation. For 3M adhesive fixation, follow these steps: Choose a suitable installation position inside the bumper, clean the surface with alcohol, ensuring it is dust-free, oil-free, and water-free. After applying 3M adhesive, press firmly for at least 20 seconds.

## Step 4: Organize wiring harness.

Arrange the wiring properly. Pay attention that the wiring must be routed away from the exhaust pipe, avoiding the wires from scraping against sharp metal and being squeezed by door gaps.

# Testing and Debugging:



## Precautions:

1. The sensing surface (the side with pre-applied 3M adhesive paper) must face the ground for detecting kicking actions. There should be no metal objects in the direction of the sensing surface, but the presence of metal (such as steel beams, and wires) near the shielding surface does not affect the operation of the kick sensor.
2. After connecting, installation personnel must stay at least 1 meter away from the device, waiting for the device to automatically recognize the environment, it will enter normal operation within 10 seconds. When the vehicle is not started, approach the trunk with the original car remote control, stand about 30-40cm away from the trunk, and kick toward the lower part of the trunk in the most natural and relaxed way to trigger the trunk open.
  - Please kick and retract at a normal speed; Deliberately kicking or holding the leg slowly (the entire movement takes more than 2 seconds) is considered an interference signal.
  - The distance between the kicked foot and the sensor box should be 5-10 cm; if the distance is too far, the door opening action will not be executed.
3. When the device senses a change in capacitance, the indicator light will turn red, after judging that it is a valid kicking action, it will emit a door open signal while the green light will illuminate once. If it judges an interference signal, the green light will not illuminate, and no trigger signal will be sent.
4. If the indicator light turns red first and then the green light flashes, it indicates that the ACC circuit has been detected as powered (i.e. the vehicle has started or is in motion). In this case, the kick sensor will not send trigger signal. Please check that the ACC line should have no voltage when the car is not started.
5. Kick Sensor only works when the vehicle is not started and the key is close to the tailgate. In other states (such as driving, moving, locking, and leaving the key), it will not send a door opening signal.
6. After detecting motion continuously and frequently for more than 20 times, the device will enter protection mode and stop outputting. After being stationary for 10 seconds, it will automatically resume operation.
7. The indicator light will turn off after 1 hour to save power. If you want to continue using the indicator light, please cut off the device power and turn it back on.

# Special vehicle models(Mercedes-Benz and Volvo):

Special car models may require a resistor(provided in the package) to be connected in series on the wire leading to the internal switch of the kick sensor, such as Mercedes-Benz and Volvo. In the case of special car models, please prepare a multimeter and consult technical support.

## FAQ:

### Question 1: What is the open door signal sent by a foot kick?

Answer: The open door signal is a ground short circuit for 0.5 second. This product is suitable for cars with negative-triggered tailgate switches.

### Question 2: Can this product be installed on a positively triggered tailgate switch?

Answer: If the vehicle's tailgate has a positively triggered switch, we can change the kick sensor to a positive trigger mode by adding a relay. Please consult technical support for specific connection methods.

The following vehicles are likely to require a relay:

Atlas(Volkswagen), AVANCIER(Honda), Explorer ( Ford)

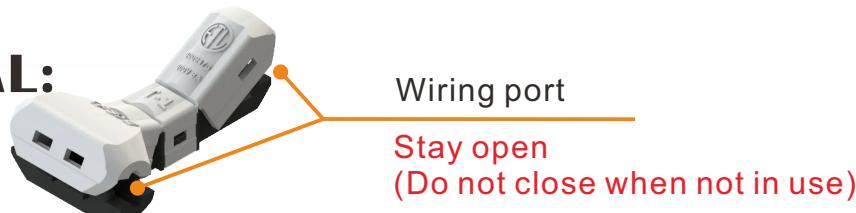
### Question 3: How to determine the triggering wire of the tailgate switch?

Answer: Use a DC pen with the negative end touching the metal, and touch each wire of the tailgate switch with the positive end one by one (touch for one second and then release). The wire that causes the tailgate to move when touched is the triggering wire.

### Question 4: Why is it difficult to open the tailgate by sweeping the leg?

Answer: This product is designed with anti-misoperation algorithms and only responds to signals characteristic of kicking actions. Other types of movements (such as small animals passing by, car washing, standing at the rear of the car, or moving feet at the rear of the car) are considered invalid signals. Therefore, the door will only open when the leg-sweeping speed is very close to the kicking characteristic.

## NON-STRIPPING WIRING TERMINAL:



### Usage of JOWX Connectors:

Ordinary pliers are sufficient for tools. It is recommended to use pliers. When clamping with pliers, the port position of the connector should be placed in the middle of the pliers and slowly applied until the port is closed and buckled. Do not use too much force at once, otherwise it may crush the product.



### Warnings:

- JOWX Connectors cannot be reused and cannot be opened after being closed.(forcefully prying open after closing can lead to product scrap)
- Live operation is not allowed as it may damage the product or cause safety accidents.

