

INSTALLATION MANUAL

PRODUCT INTRODUCTION

Parking sensors are mounted in car bumpers, Depending on the size of your car and the coverage required, either a two or four sensor kits will be fitted to your vehicle. They are also color matched to your vehicle, so you will hardly notice them. They are also easy to fit and you can order them from your dealers.

With the parking sensor, you will find a lot of the stress and guesswork is taken out of reversing. Whether it is manoeuvring back into a carspace or reversing out of a driveway, having a built-in warning system at the rear of your vehicle is great security.

A second pair of eyes

Parking sensor uses ultrasonic sensors to help you judge how close you are to the car or object behind. A concealed beeper heard from within the cabin starts to alert you to how much room you have left, beeping faster the closer you get and then emitting a constant tone if you have gone as close as you should.

It pays for itself

Just a small ding in your bumper can cost hundreds of dollars to fix, so even if parking sensor saves you from just one dent or scratch, it could pay for itself. But chances are it will reward you time and time again, and save you the inconvenience of having your car off the road for repairs, or possibly affecting your no-claim bonus.

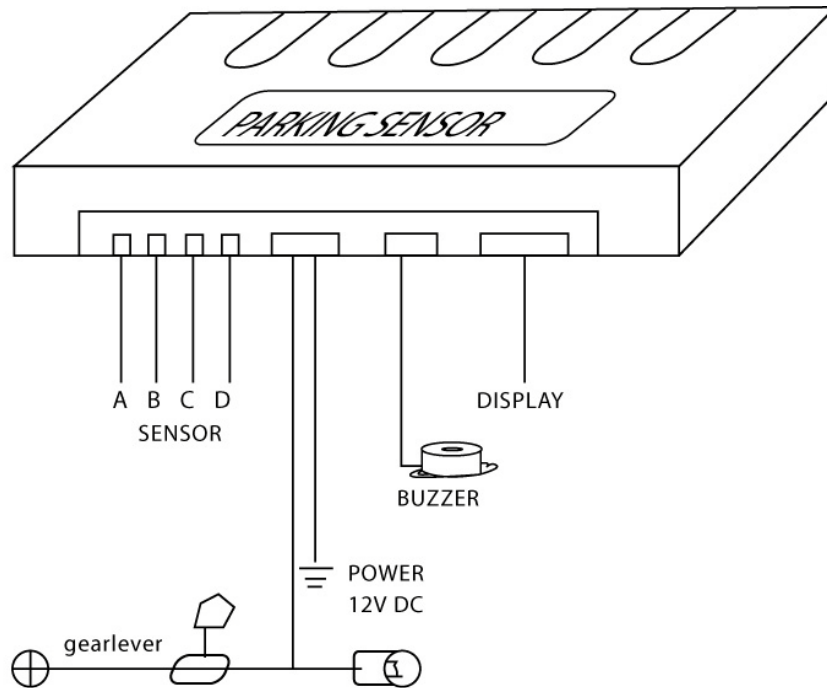
Park with confidence

Parking sensor is a stress for many drivers, but with parking sensor taking the guesswork out of reversing you'll be amazed at how much easier it becomes. It's like having someone guide you into every parking spot, day or night, rain or sunshine.

Note: Parking sensor is a driver assistance device only. It should not be used as a substitute for cautions and safe parking practices. Drivers must always visually monitor and area into which a vehicle is being reversed. Always keep reversing speeds under 5Kmph.

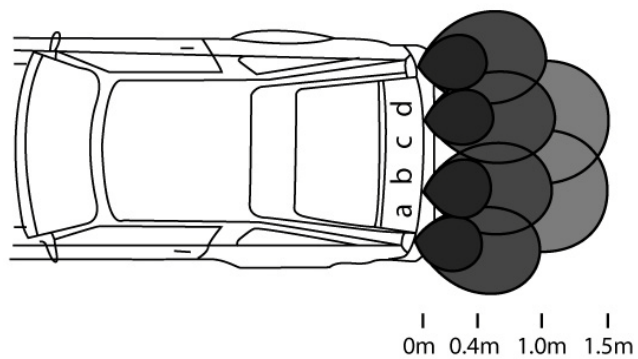
On account of use of microcomputer and wireless-scan, the display can work automatically when backing a car. Three kind of special voice and the tricolor LED present you in the space between your car and the obstacle behind your car.

Connection diagram



Working Principle

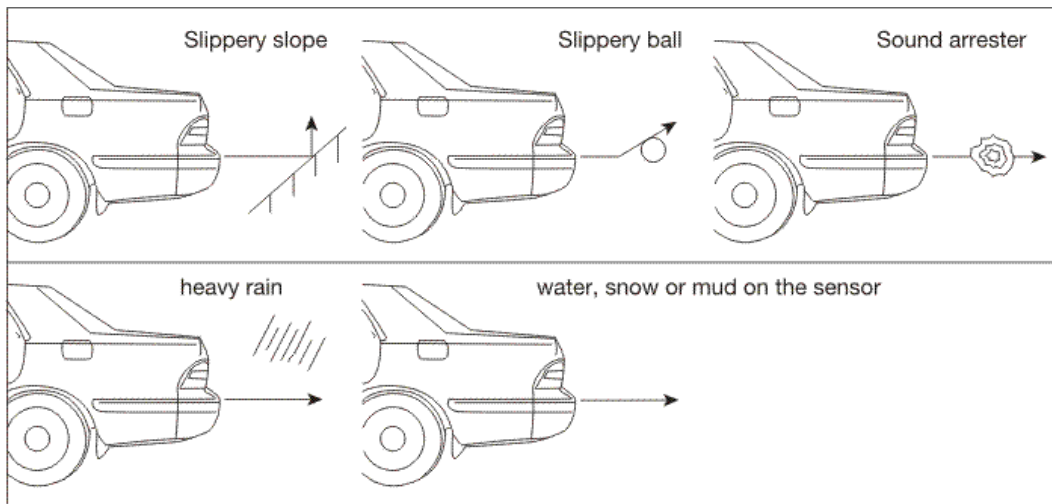
1. When the gearlever is placed to the position of reverse, it begins to work, in case the obstacle is founded, the buzzer will alarm to remind the driver.
2. Voltage: DC10V-15V
Power: 4W (max)
Temperature: $-40^{\circ}\text{C} \sim +80^{\circ}\text{C}$
Detecting range: 0.1m-1.5m
Volume: 85dB
3. Detecting space:



Space to the obstacle	Voice of the alarm	LED display
150cm-----100cm	Bi----Bi----Bi---- Long interval	Green
100cm-----40cm	Bi--Bi--Bi-- Short interval	Orange
40cm-----10cm	Bi Bi Bi Bi Bi Continuous	Red

(Space error +/- 2cm at the temperature of 20°C by reference of a metal stick obstacle of 5cm)

4. The obstacle difficult to be founded:

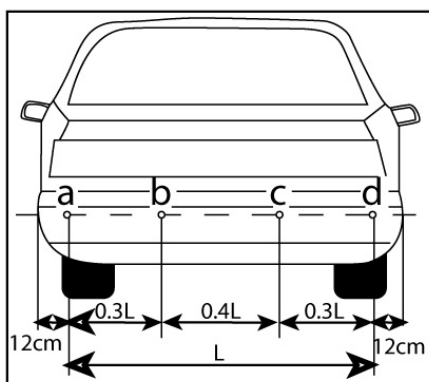


5. Notice:

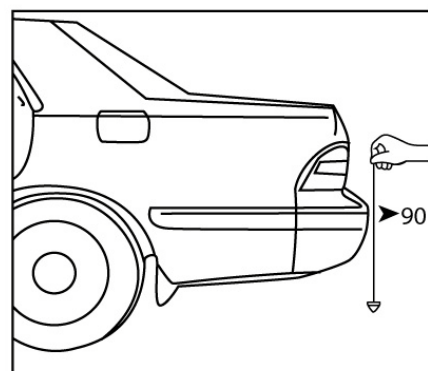
Please remove water, snow or mud on the sensor in time. Avoid cutting off and extending the sensor wire.

Installation

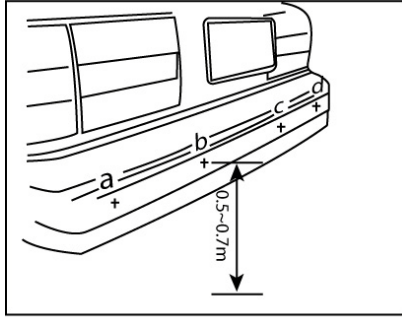
A. Install the sensor



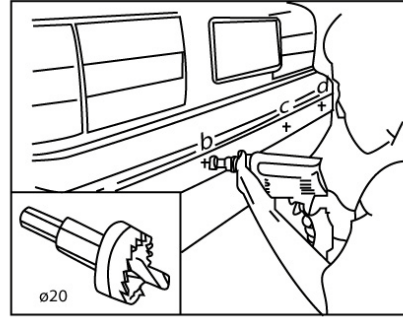
1. the four mounting points(a,b,c,d) should be on a same horizontal line



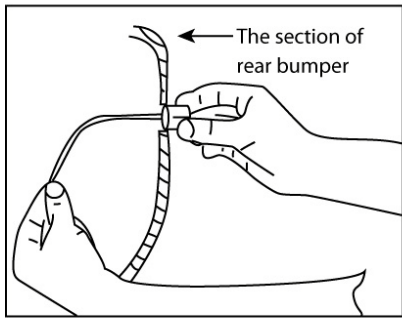
2. the four desired place is vertical, plane and has no metal parts



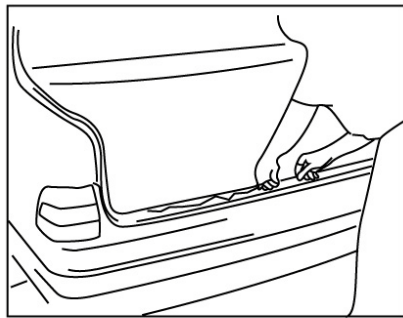
3. Keep them 0.5-0.7m from the ground, advising distance is 0.53m.



4. Make the hole with the aiguilles of $\varnothing 20\text{mm}$.



5. Plug the sensors into the hole and tighten them.

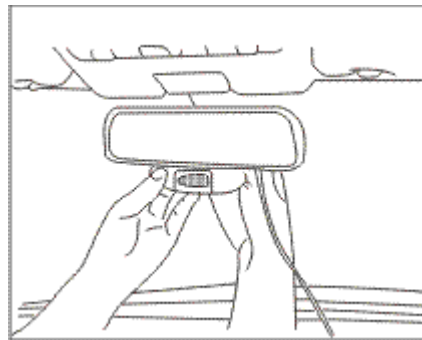
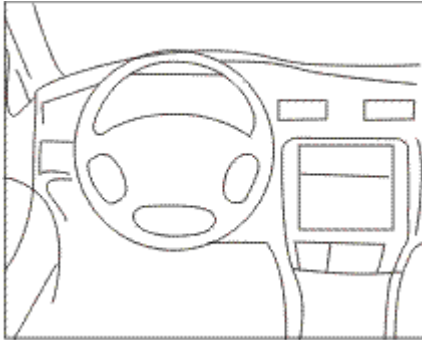


6. Snugly amount the connecting wires in the rear trunk.

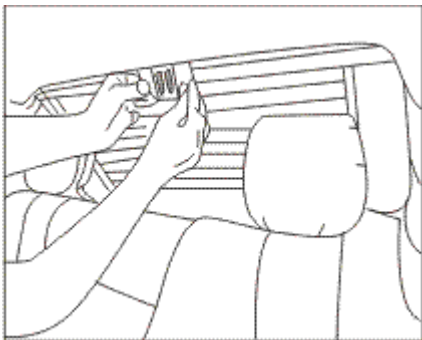
B. Install the LED display

1. Stick it to the middle or rear window

2. Fix to the middle of inner rear mirror



3. Stick it to any position of dashboard



C. Connect to power source

- Connection of red wire

Connect red wire of the two-plug to the anode(+) of reversing light

- Connect black wire

Connect black wire of the two-wire plug to car bodywork.

- Fix the connection point with insulating tape.

D. Install the module and buzzer

- Stick the buzzer with the enclosed double-face tape to a place where the alarming voice can be easily heard by the driver.

- The module must be installed at the dry and free of high temperature place with double-face tape.

E. Test

- Turn on the auto power, the alarm will begin to work when backing a car and reversing light flashing.

- Slowly back the car to the obstacle to train the sense of space between the car and the obstacle, train until you can use it soundly.

F. Settle the easy problems

- The power is turned on, but the obstacle cannot be detected

a. Check against the connection of the anode and cathode of the power

b. Examine whether the power connects to the auto power

c. Judge that whether the power works well

- The display alarms, but nothing founded behind the car

a. Examine whether well connection of power

b. Judge whether there is water, snow or dirt on the sensors

c. When it rains, it is possible to alarm incorrectly

d. Sometimes, on the account of wringing module, it cannot work normally, when dry, it can work well.

G. Notice in using

- This product is just assistant system, judging the case behind the car abundantly before braking.

- This product has not be designed to connect with the stop system, please brake in time once hear the alarm.

- Slowly reverse the car to avoid hitting the obstacle.

- During the first time of using this system, please pay much attention to the

obstacle behind the car when backing a car. When the buzzer alarms, be careful of the distance between the car and obstacle, if necessary, please get off and have a look. It may be:

- a. Small obstacles
- b. Low wall
- c. Higher border of road

- This product is just assistant equipment for you to reverse a car. We are not responsible for any accident arising from reversing.

Quality Guarantee:

This product has been strictly checked prior to the shipment of the company and turns out to be stable and reliable. To stop the unexpected cases, we promise one-year quality warranty from the purchasing date and free of fixing the system broke down under the proper use in presenting of the quality guarantee, but the following cases are not include in our guarantee:

- a. Because of improper installation
- b. Disassemble and modify the system without permission
- c. Artificial damage of less of parts
- d. No dealer's seal on the guarantee and maintenance card is blank

Note: We are not responsible for the economic loss from the direct or indirect reasons because of improper installation or using this product.

Guarantee				
User:				
Car model:		Car no:		
Add:				
Date of installation:		Month	Day	Year
System model:		System no:		
Dealer (seal):				

IMPORTANT NOTICE - Please Read:

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The logo for BENEF, featuring the word "BENEF" in a bold, white, sans-serif font. The letters are set against a solid black rectangular background.