

PARKING SENSOR MANUAL

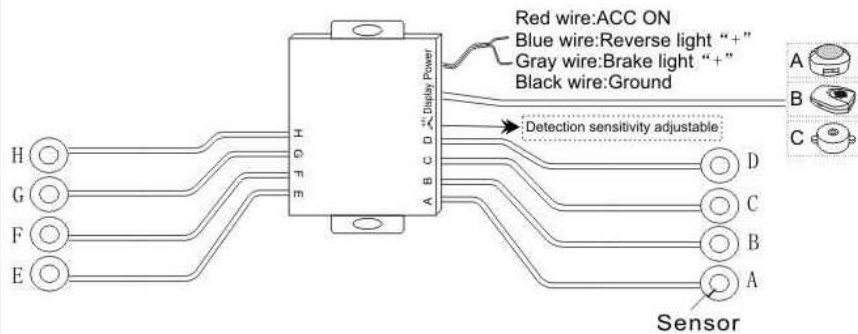
Parking sensor

This Parking Sensor System consists of ultrasonic sensors,digital control box and buzzer.The system detects the distance between the car and front/rear obstruction by ultrasonic sensors installed at the front/rear bumper of car.This system reminds driver via step-up sounds,which will be changed according to the actual positions detected obstruction so that the driver could judge the distance and avoid accident. Different alarm sounds ("BoBoBo" and "BiBiBi") can remind the driver that the nearest obstruction lies on front or rear.

Technical Specifications

- Rated Voltage: 12V (9--16V)
- Rated Current: 20mA ~ 200mA
- Detecting distance:Rear (0.2~1.5m) Front (0.2~0.8m)
- Ultrasonic Frequency: 40KHz
- Working Temperature: -30 ~ +80℃

Diagram of installation



The rear sensors A,B,C,D should be installed from left to right.

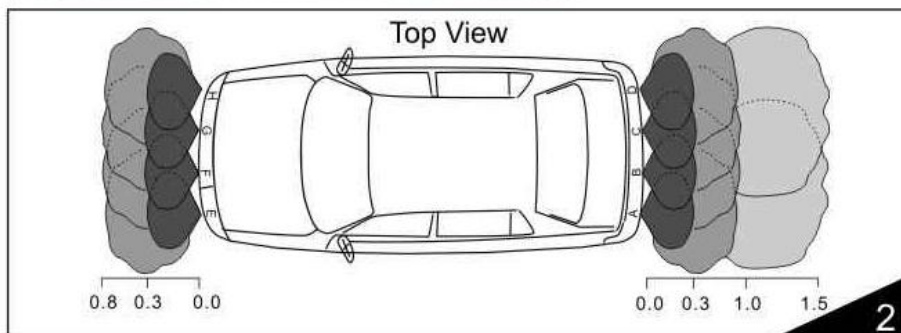
A : left ,B: mid-left,C:mid-right,D:right

The front sensors E,F,G,H should be installed from left to right.

E : left ,F: mid-left,G:mid-right,H:right

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Detecting Range



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Display Distance:

Front sensors: E,F,G,H : 0.3~0.8m

Rear sensors : A,B,C,D : 0.3~1.5m

Working Conditions:

1、 When reverse the car, the rear sensors A,B,C,D and the front sensors E,H work at the same time. The distance from nearest obstruction and the bumper will be shown on the display with alarm sound and direction indicator.

2、 When drive forward, only the front sensors work. When brake the car, the front sensors start to work ; when stop braking, the front sensors stop working in 5 second.

Alarm mode

(Rear detection)

Stage	Distance	Awareness	Sound
1	$\geq 1.6\text{M}$	Safe mode	Silence
2	1.5~1.1M	Safe mode	Bi...Bi...
3	1.0~0.4M	Alarm mode	Bi..Bi..
4	$\leq 0.3\text{M}$	Danger mode	Bi.....

(Front detection)

Stage	Distance	Awareness	Sound
1	$\geq 0.8\text{M}$	Safe mode	Silence
2	0.8~0.6M	Safe mode	Bo...Bo....
3	0.5~0.4M	Alarm mode	Bo..Bo..
4	$\leq 0.3\text{M}$	Danger mode	Bo.....

Learning function

(Optional)

This is a very useful function for vehicles with spare tyre, towbar or bike holder, etc.

If the vehicle has a spare tyre at the back, the ordinary parking assist system may detect the tyre and result in continuous false alarm.

With this parking assist system that has the learning function, the problem can be resolved easily, as the system will "remember" the tyre as part of the vehicle.

How to activate the learning function:

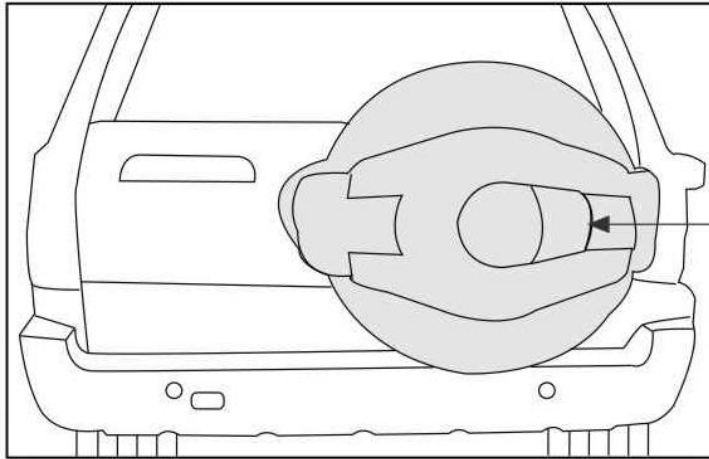
Drive the car to a place where there is no object within 2.5m behind. When ACC ON, shift the gear from "P" to "R" position back and forth continuously for 5 times and in 10 seconds, then, The buzzer will sound three times: "Bi.....Bi.....Bi....."

It will confirm that the learning function is activated and the system will remember the tyre's location automatically.

When the locations of the back tyre, the trolley height & size etc have been changed and to "remember" the new locations, please repeat the above action again.

Learning function

(Optional)

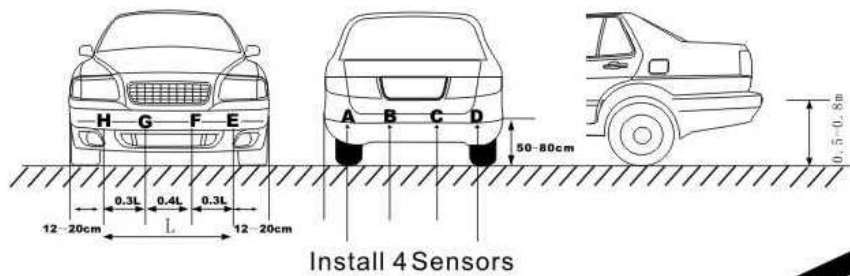


Spare tyre or
tow-bar

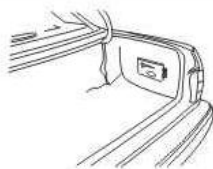
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Sensor Installation

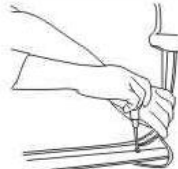
Advised position to install the sensors



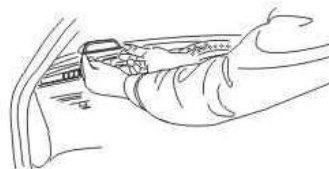
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Locate the control unit
in the rear boot at a place
safe away from rain,
heat or humidity



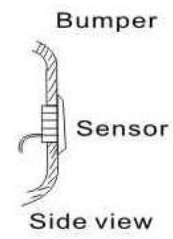
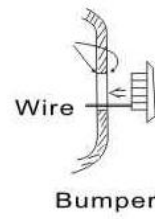
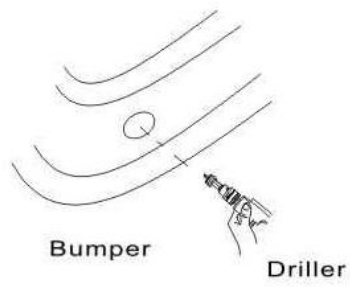
Lay the wires snugly
to avoid ugly looking



Mount the display firmly
on the dashboard for the
driver easier to see

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Install the insert-in sensor

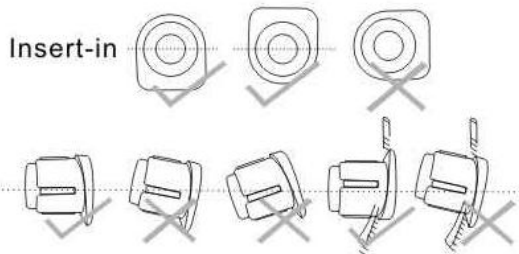


The direction of the thick side should be downward

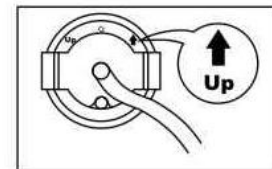
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The direction of sensors

Insert-in

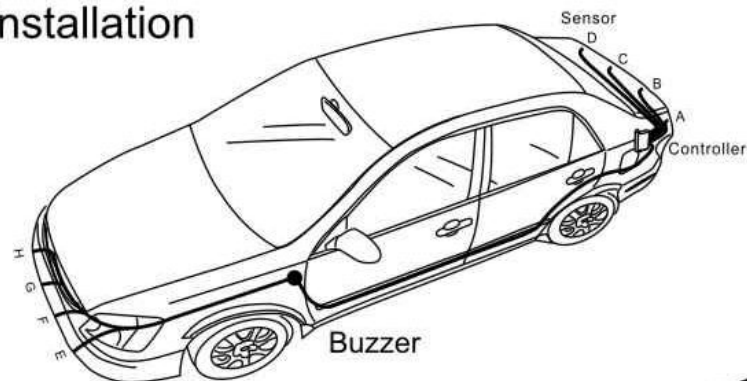


Insert-in



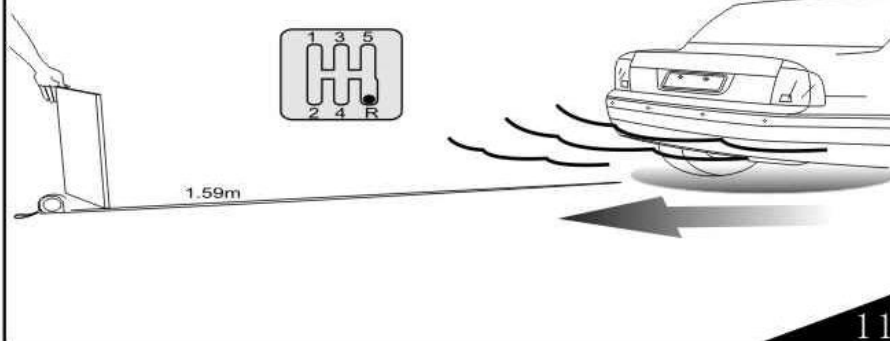
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Installation

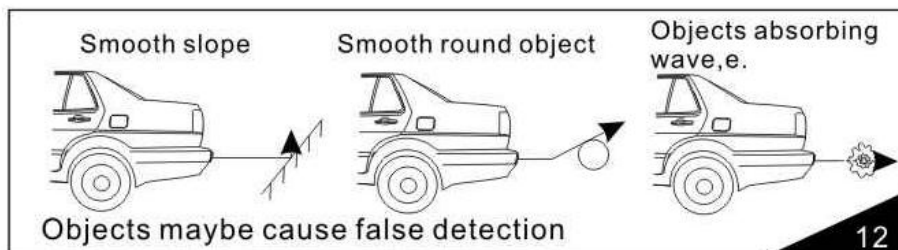


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Test



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Note

1. When installing the system, the car engine should be powered off.
2. The performance may be affected in the following situation: Heavy rain; the gravel road, bumpy road, sloping road and bush; very hot, cold or moist weather, the sensors is covered by snow, ice, mud, etc.
3. The metal bumper maybe affect the performance of the system.
4. Don't locate the control unit near to other interference sources such as exhaust pipe or other wires.
5. Test the system to make sure it works well before using.
6. This system only acts as a kind of reminding aid, in case of any accident, the manufacturer or distributor are not responsible for the consequence.

FCC Warnings

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.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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.

Radiation Exposure Statement

To comply with FCC RF exposure compliance requirements, this grant is applicable to only mobile configurations. The antennas used for this transmitter must be installed to provide a separation distance of at least 20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.