

Parking Assist System



Manual

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Important notice

Parking assist systems help to provide assistance when reversing and parking. Driving skills, such as slowing down, use of mirrors etc. is always essential.

1. This unit is for vehicles with 12V DC only.
2. Unit should be installed by a professional auto technician.
3. Route wiring harness away from heat sources and electrical components.
4. It is strongly recommended to check the position of the sensors before the actual drilling of the holes.
5. Perform a test after installation.

Disclaimer

The parking assist system is designed as a driver assistance device, and should not be used as a substitute for safe parking practices. The area into which the vehicle is to be reversed must be constantly visually monitored while parking.

The manufacturer and its distributors do not guarantee or assume liability for collisions or damages while reversing your vehicle.

About the product

Parking assist system is an ultrasonic distance monitoring system. It electronically detects the area in front of your vehicle while parking, and alerts you with audible tones if the system detects an obstacle. The system will show the accurate distance in meters or feet (upgrade to LED/LCD display).

This product is 4-sensor systems for front bumper protection. They can also work as 2-sensor systems. Combined with functions such as automatic audio mute, self-test and learning function, they are ideal for cars with front metal bar.

This product can be upgrade with displays. The modern display can be easily installed on the dashboard or on top of the rear-view mirror.

Each part of this product has passed the most stringent test before releasing to the market. It is reliable at a wide temperature range (-40°C/-40°F ~ +80°C/176°F) and becomes very useful when you are parking in poor weather conditions.

With the help of our parking assist system, you can enjoy a convenient and easy parking experience.

Key features

- 4 front sensor system
- Buzzer can be upgraded to LED/LCD displays
- Can also work as a 2-sensor system
- Compatible with front metal bar
- Automatic car audio mute function
- Self-test function
- Anti-false alert technology
- All weather design(-40°C/-40°F ~ +85°C/185°F)

Technical specifications

Input voltage:	9~16V DC
Operating current:	<250mA
Sensor installation height:	45~60cm/1.5ft~2.0ft
Detection range:	0.3m/0.9ft~0.9m/3.0ft
Buzzer SPL:	70~90dB

Operating temperature:
-40°C~+85°C/-40°F~+185°F

LCD:
-20°C~+70°C/-40°F~+158°F

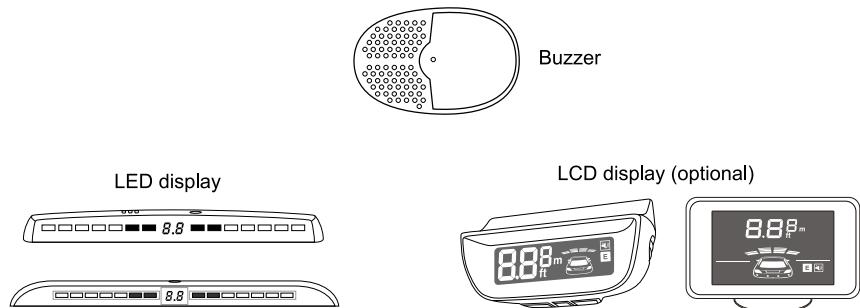
LED:
-40°C~+80°C/-40°F~+176°F

Buzzer:
-40°C~+80°C/-40°F~+176°F

Buzzer & Display (optional)

The alert buzzer can be upgraded to display. These pictures are for reference only, the actual display may vary.

Only some displays have set button or digital indication. Digital indicator and volume adjustable function depend on the display you choose.



Self-test function

1. All sensors are working normally

No beep



2. Damaged sensor is detected

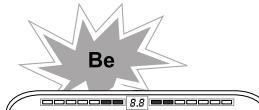


- Beep three times.
- Other sensors keep working.

Display self-test function

Once the reverse gear is selected, the system will perform self-test procedure.

1. All sensors are working



Beep once

2. Damaged sensor is detected

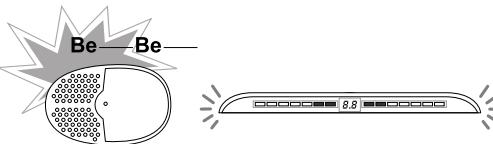


Damaged sensor locations

- Beep three times.
- Other sensors continue to work normally.
- The location of the damaged sensor is shown on the display. The damaged sensor number (E1 - E4) is shown on the display.

Learning function

Turn ignition on, press footbrake and connect the green learning wire to a +12V power supply (i.e. pink wire in the fuse connector). The system will perform learning procedure.



The buzzer will give 2 audible tones. This indicates that the learning function is successful and the system will ignore the front protrusion. Then disconnect the green wire and insulate it.

Note: if the vehicle does not have front metal bar or other front protrusion, the above procedure is not needed.

Automatic car audio mute function

When reverse gear is engaged, the system will automatically mute the car audio.

This function aims to help the driver to reverse safely without distraction.

2 / 4-sensor automatic recognition

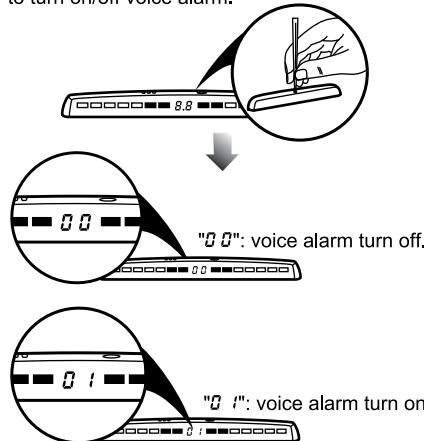
This 4-sensor system can be used as a 2-sensor system.

This has to be done by connecting the 2 central sensors (F&G) or 2 outside sensors (E&H).

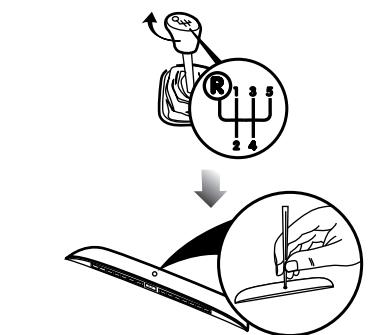
Voice alarm

M7 particular function

Press and hold the button for 2 seconds, and then press the button once again in 1 second to turn on/off voice alarm.



Volume adjustment



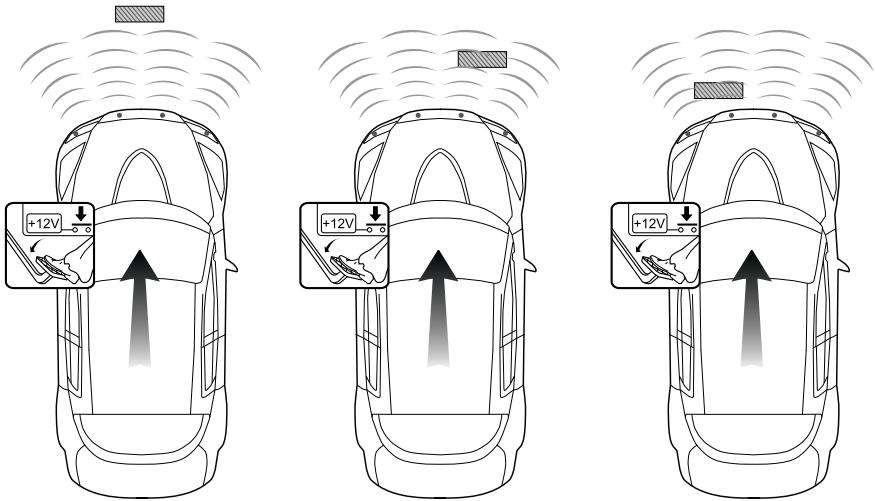
Once the reverse gear is selected, press set button to adjust the volume.

When the obstacle distance is less than 0.3m/1ft, the audible warning will alarm in high volume automatically.

Factory setting: high volume

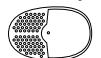
How does the system work

Driving forward, press footbrake



Buzzer:

No beep



Be—Be—

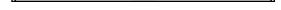


Be—



LED display:

Distance: >0.9m/3.0ft



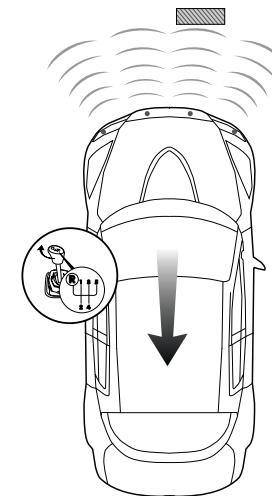
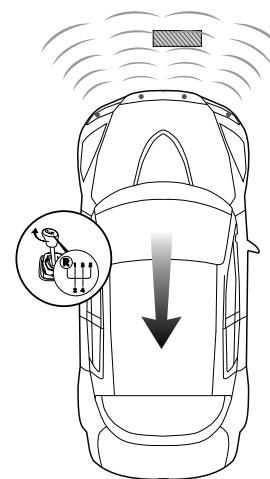
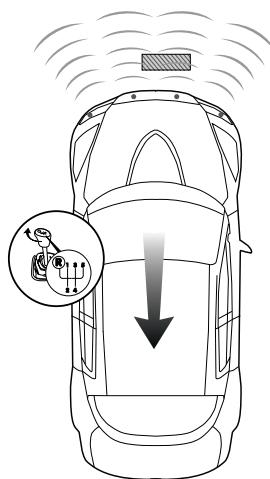
Distance: 0.6m/2.0ft



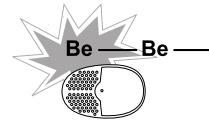
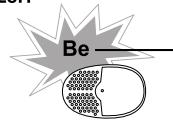
Distance: <0.3m/1ft



Reversing



Buzzer:



LED display:



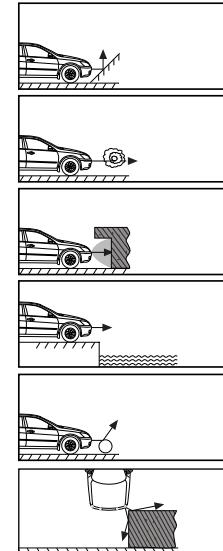
Distance: <0.3m/1ft

Distance: 0.6m/2.0ft

Distance: >0.9m/3.0ft

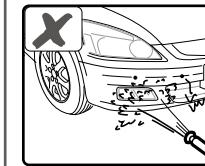
Attention

False detection may occur in the following situations:

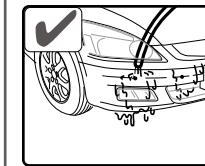


- After installation, please fully test the system before use.
- Heavy rain, dirty or damaged sensors may result in false alarm occasionally.
- Ensure that the self-test procedure is completed and all sensors are functioning before using the system.

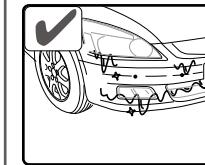
Sensor maintenance



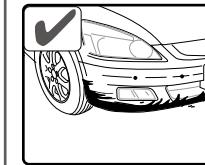
Do not wash the sensor with a pressure washer or scrub them forcibly.



Please wash car with low-pressure water.



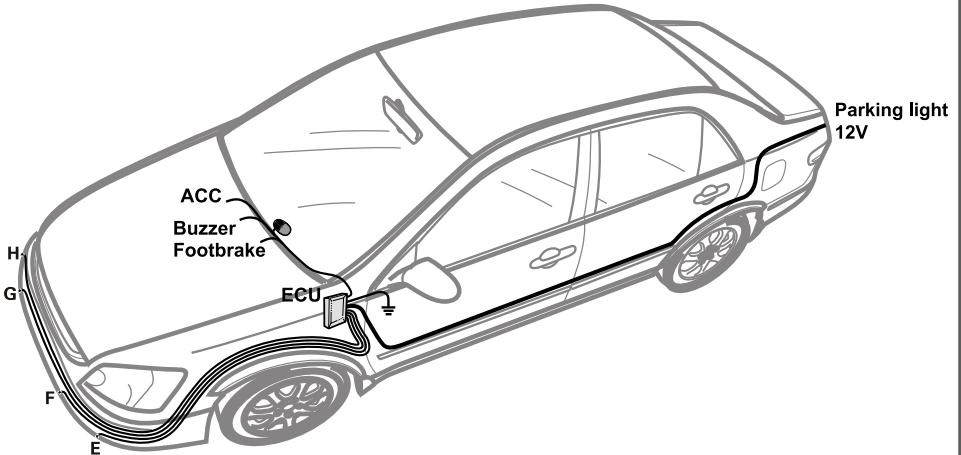
Please melt the ice with warm water when the sensors are covered by ice.



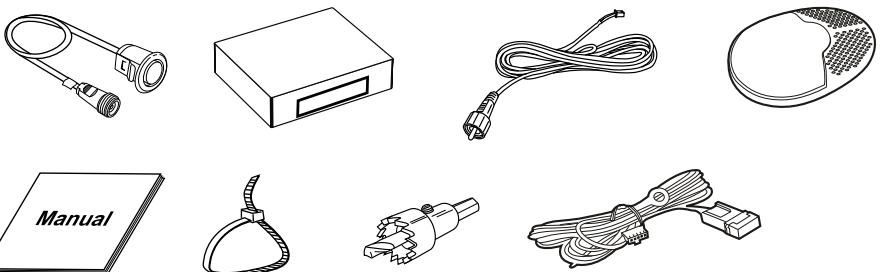
Please clean the sensors with cloth or low-pressure water when the sensors are covered by dirt or snow.

Installation Manual

Brief installation diagram

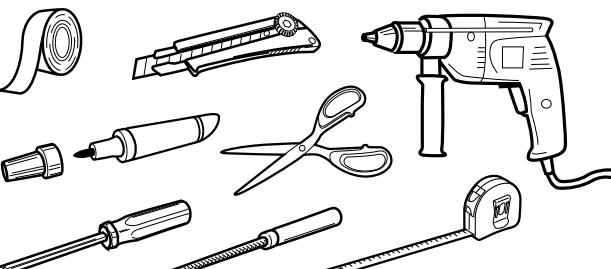


Packing list

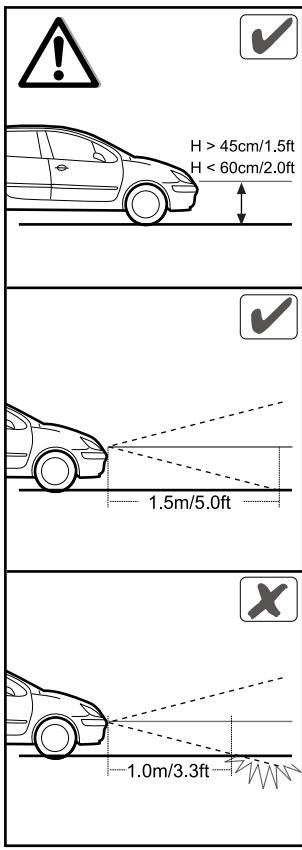


↗ The actual sensor may vary from the image shown above

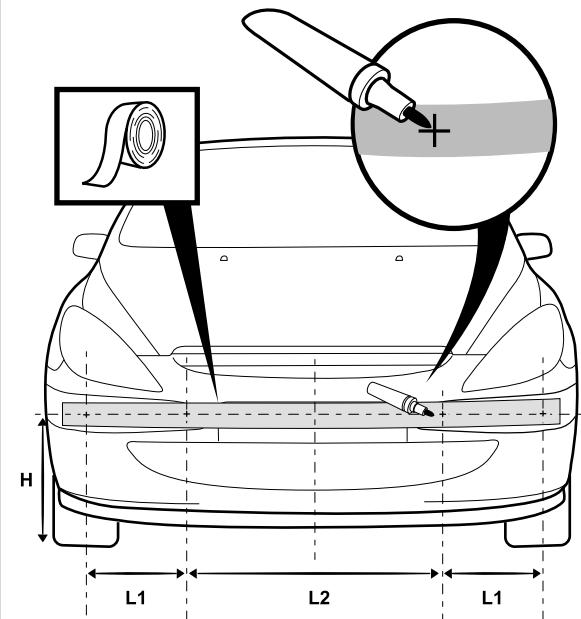
Installation tools



Sensor installation



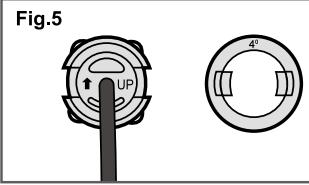
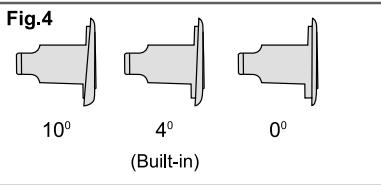
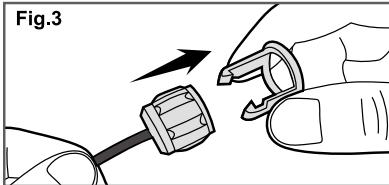
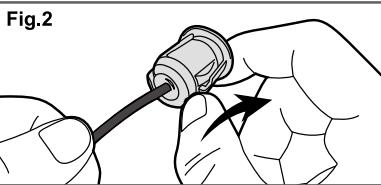
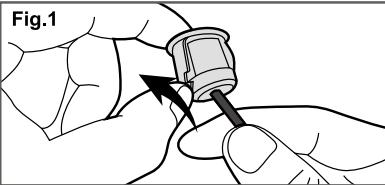
1



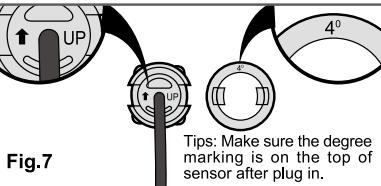
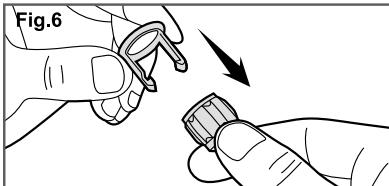
35cm/1.1ft < L1 < 45cm/1.5ft
50cm/1.6ft < L2 < 76cm/2.5ft
45cm/1.5ft < H < 60cm/2.0ft

2

Changing the sensor head angle.



When colour coding the sensor heads it is advisable to paint the heads in two parts to achieve the best finish. When the paint is dry remove excess paint from the silicone then clip back together.

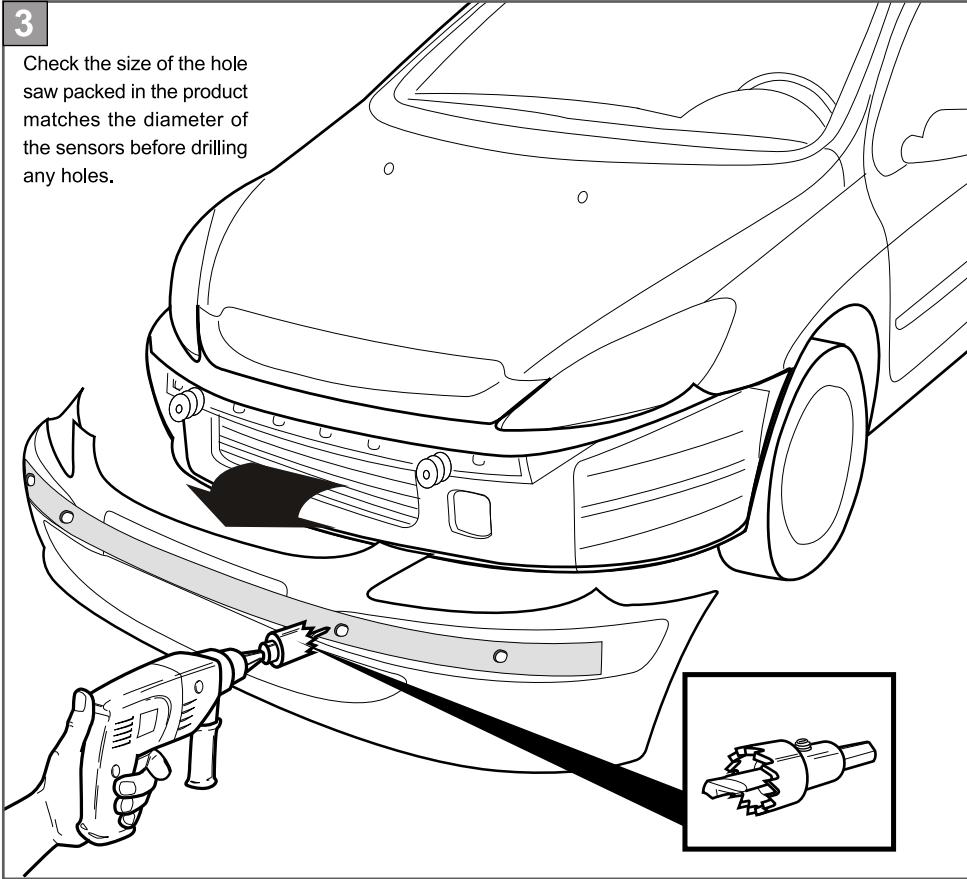


Tips: Make sure the degree marking is on the top of sensor after plug in.

NOTE: For sensor colour coding procedure please refer to **Fig.5**

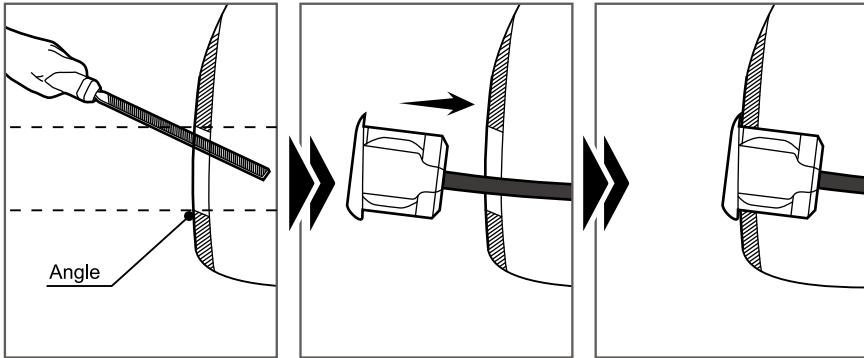
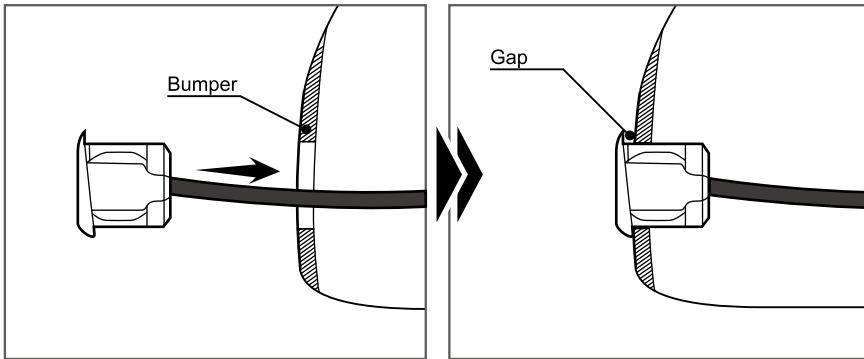
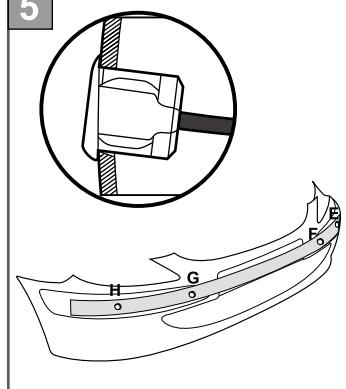
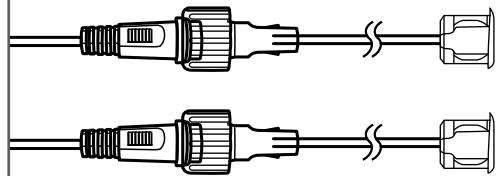
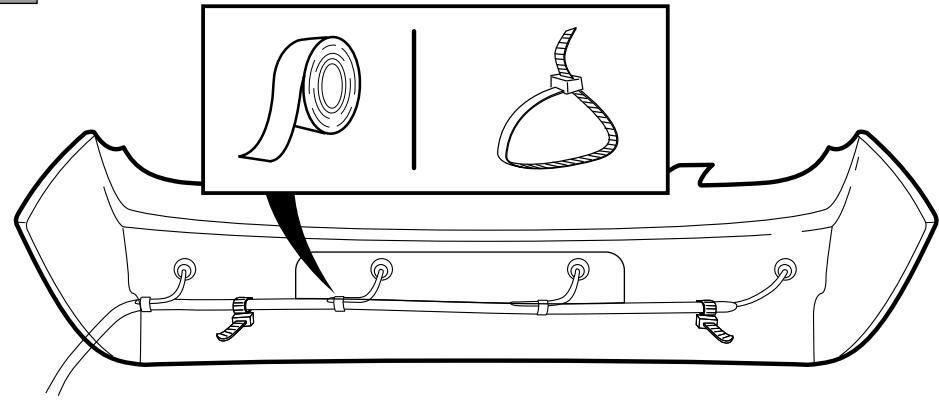
3

Check the size of the hole saw packed in the product matches the diameter of the sensors before drilling any holes.

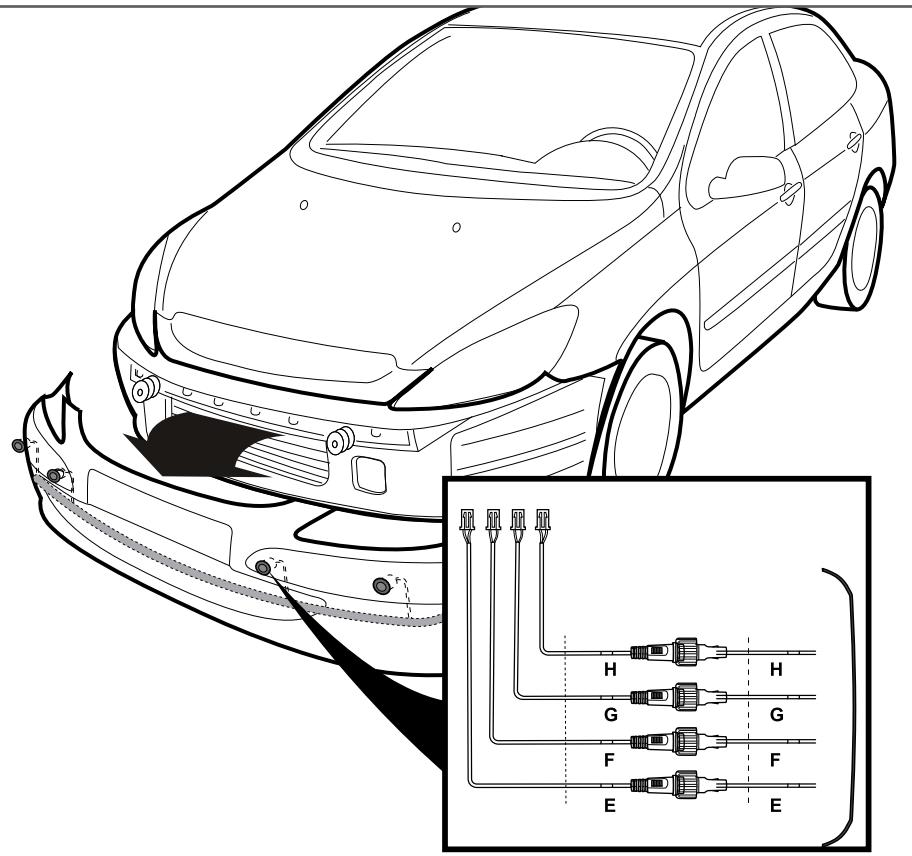


4

Hint: If a gap found between bumper and 10° sensor cover after installation, please adjust the angle of the hole shown as below.

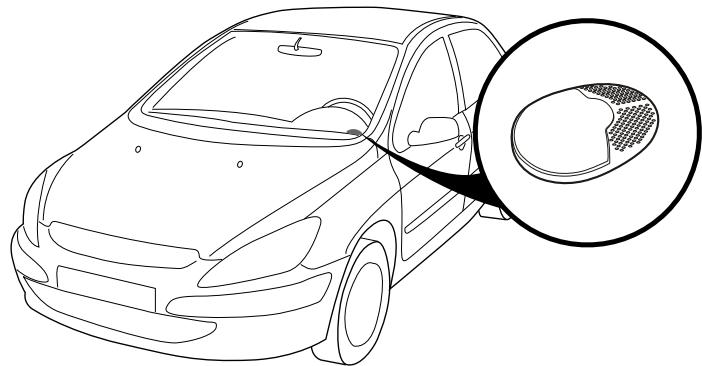
**5****6****7**

8

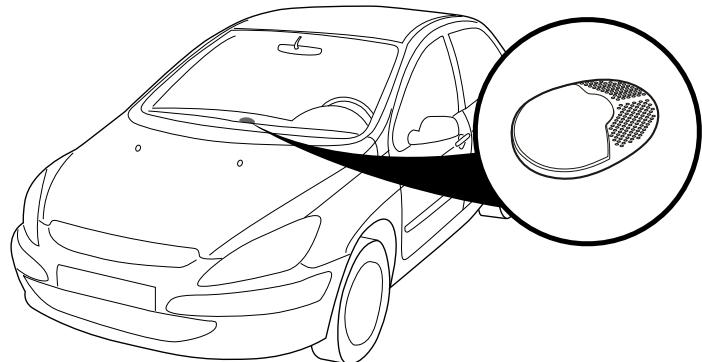


Buzzer installation

A

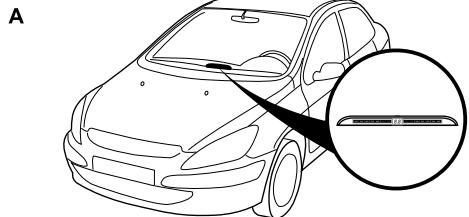


B

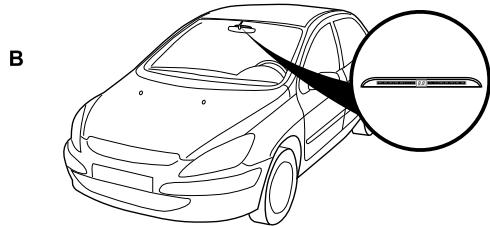


The above locations are the recommended installation of buzzer.

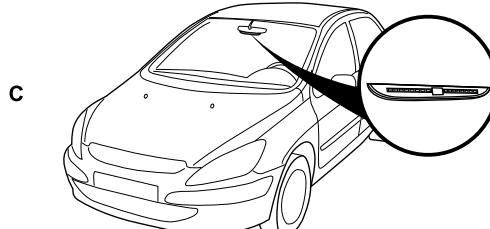
Display installation



Mount the display on the dashboard firmly for the driver easy to see easy.

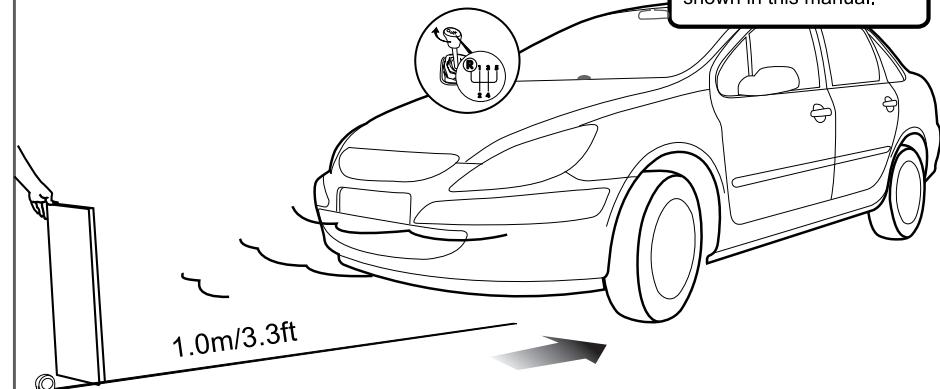
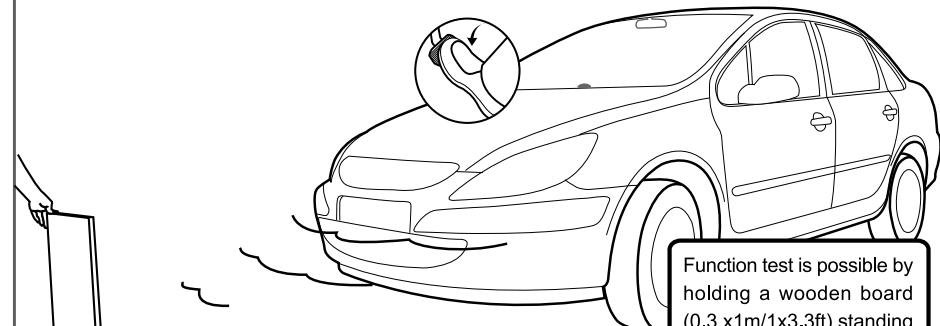


Mount the display on the top of rear view mirror



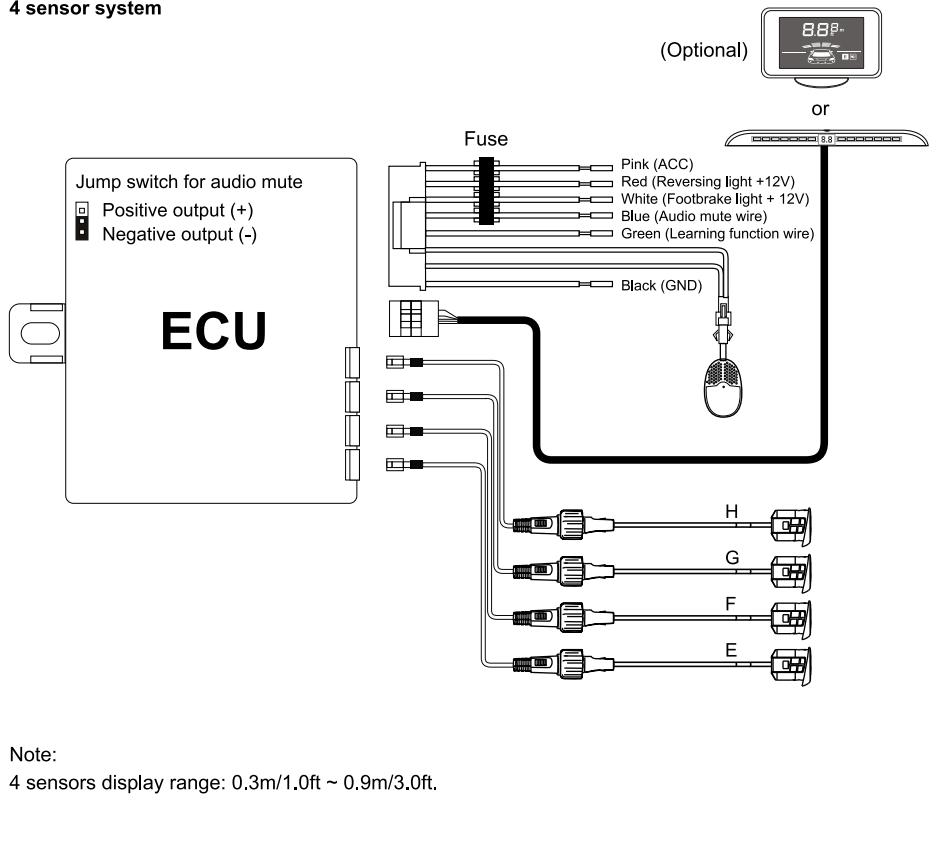
Mount the display on the front roof

Function test after installation

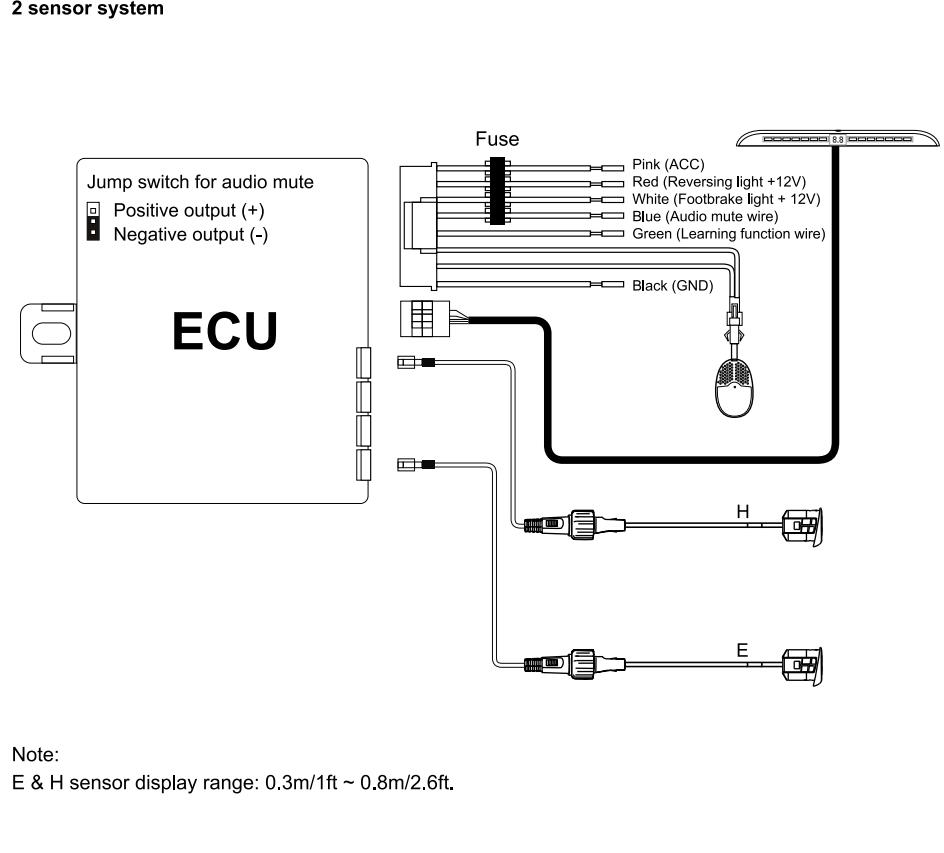


Installation diagram

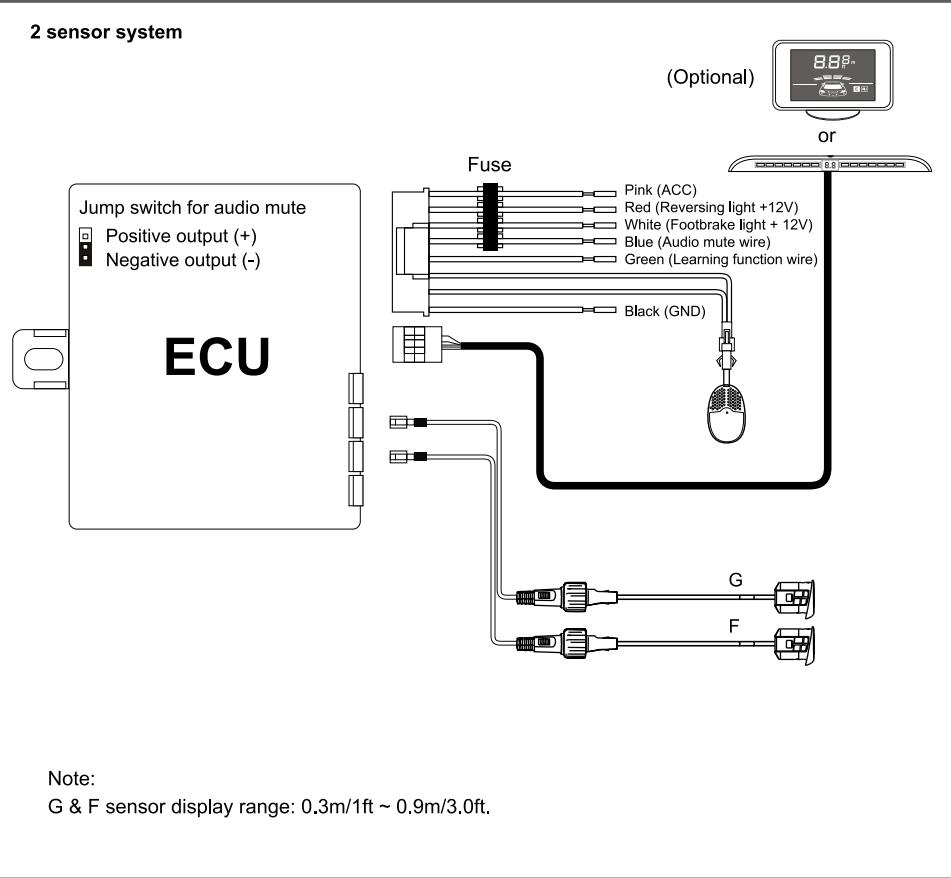
4 sensor system



2 sensor system



2 sensor system



Troubleshooting

After installation, the system doesn't work

- a) Are all wires connected properly?
- b) Is the vehicle's ignition ON?
- c) Is the footbrake pressed?

Damaged sensor detected

- a) Are all sensors plugged into the ECU correctly and tightly?
- b) Is the sensor wire broken?
- c) Is the sensor covered by mud or snow?
- d) Is the sensor damaged?

False warning

- a) Are all sensors plugged into the ECU in the correct position tightly?
- b) Does any sensor detect the ground?

If the problem persists, please follow these steps

- a) For consumers: contact your dealer or nearby service centre.
- b) For installer or dealer:
 - 1) Replace the ECU and recheck the system.
 - 2) Test the sensors with certified ECU by using a flat wooden board.
 - 3) Plug the certified sensors into the ECU and recheck.
 - 4) Email your question to us and we will reply ASAP.