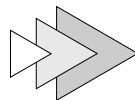




AutoSonar®
AUTOMOTIVE PARKING SENSOR

User's Manual



User's Manual

Introduction

Thank you for buying this product. Please read carefully before using and understand the features and limitations of this product, and keep this manual in the glove compartment. This manual contains important information on safety operations of the backup sensors, it is important that you get familiarized with all functions and descriptions, and follow the recommendations listed so you can make your experience safer and enjoyable.

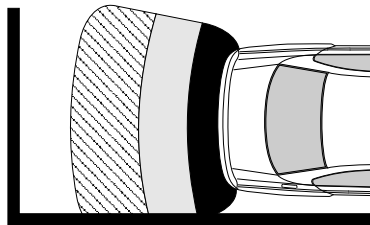
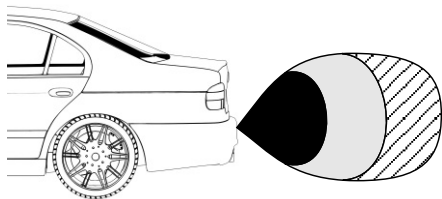
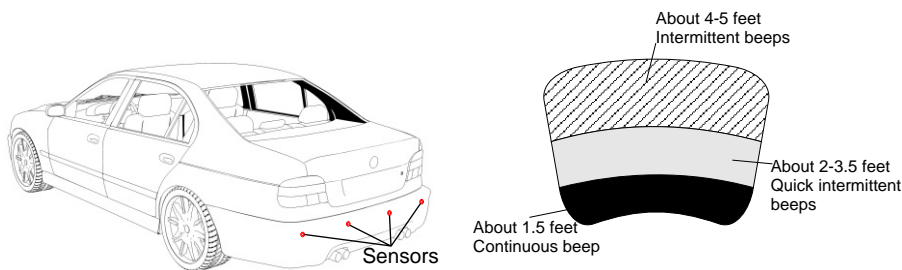
The system

The sensors activate automatically when vehicle shift is in reverse position (vehicle ignition must be ON in order for the system to operate.) Sensors are designed to provide a warning when it detects an object as the vehicle is backing up (reverse) at slow speed. You must be aware that sensors may not detect some objects depending on the size, shape, material or position. Remember that even with backup sensors the driver is responsible for the path to be clear when backing up (when operating vehicle in reverse).

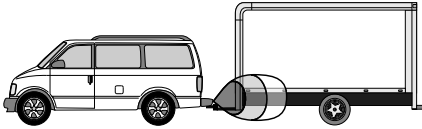
How it works

The functions of the sensors depend on an ultrasonic signal that is transmitted by them. They calculate the distance between the object and the sensor by measuring the time it takes for the waves to return after reflecting on the object.

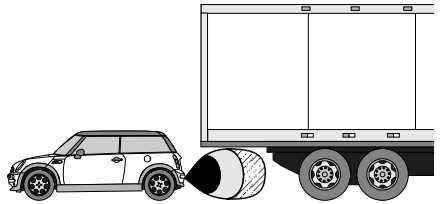
This system is designed to give you a visual and auditory signal when the rear bumper of your car is getting close to an object.



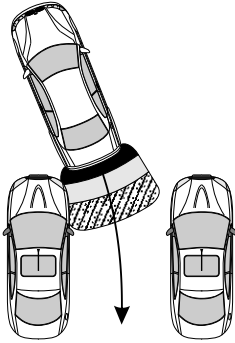
In this example, the right sensor is detecting a wall



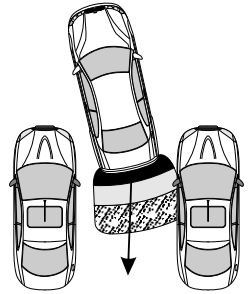
If a trailer is attached to the vehicle the system will sound continuously while shift is on reverse position. To avoid sound, simply lower the volume.



The sensor may not detect another vehicle bumper if it is too high.



The sensors are designed to detect only the closest object and this may vary when vehicle is backing up.



Limitations

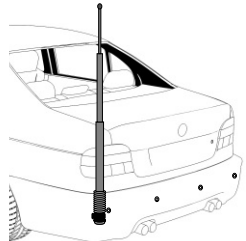
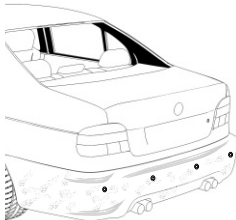
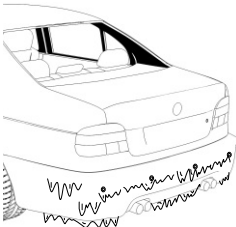
The system could malfunction at these temperatures: below -22° Fahrenheit (-30° Celsius) or above 176° Fahrenheit (80° Celsius).

The sensor may not work if an object does not reflect the ultrasonic waves or it has an unusual shape, pole, cardboard carton, tire of bicycle, small or slender tree, rectangular lumber or curbstone.

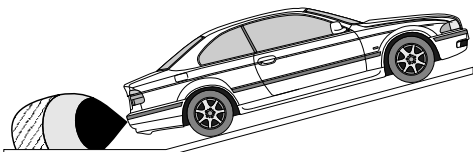
The sensor may not detect another vehicle bumper if it is too high.

Cautions

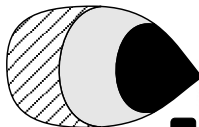
The system will warn you when there is no object behind if:
Sensors are covered by snow, ice, dirt or mud.



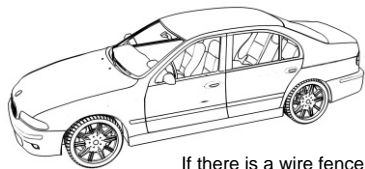
If the vehicle is equipped with high-power radio antenna.



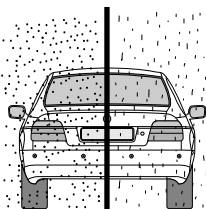
When backing up downhill



If there is a very small object.

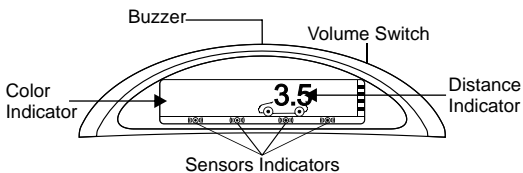


If there is a wire fence.



Backing up in heavy rain or snow.

How to use



Background Colors:

- Green - Safe Area 4.0-5.0 feet
- Yellow - Alarm Area 2.0-3.5 feet
- Red - Danger Area 0.0-1.5 feet

It is important that before you start using the product you get familiar with the graphics, colors, sounds, and distance by testing it.

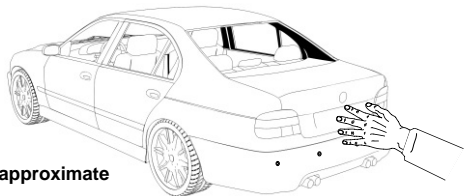
How to test

Apply the parking brakes.

Turn ignition on. (Do not start the vehicle.)

Place the shift gear to reverse position.

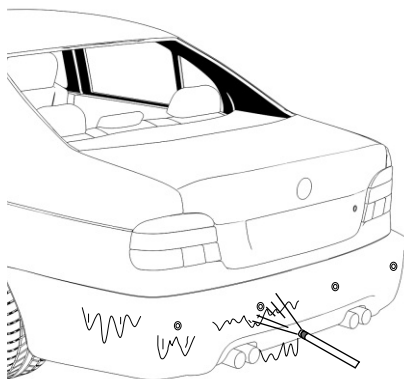
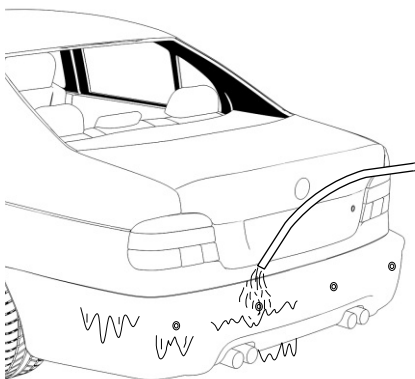
From behind the vehicle proceed to check the system by placing the palm of your hand slowly back and forth in front of each sensor. Note: make sure you check all of them.



Note: the distance displayed on the screen is approximate

Maintenance

Always keep sensor from dirt, snow and mud, clean them with a soft towel and low pressure water.



Do not use high pressure water

NOTE: If sensors need repainting it must be with a light coat to avoid detection problems.

Troubleshooting

Symptom	Cause	Solution
Orientation of sensors do not match.	Sensors in wrong order	Change order of sensors
Constant display " P "	Sensors orientation may be pointing wrong way or is covered	Adjust angle position or clear sensors
No display on reverse	Power supply or display cable is disconnected	Check connections on power supply

Limited 3-Year Warranty

We warrant that this product, parts, and workmanship are free of manufacturing defects..

Warranty voided if:

- A. Broken seal.
- B. Negligent use of system causing it to break.
- C. Serial numbers do not match the registration.
- D. No proof of purchase.

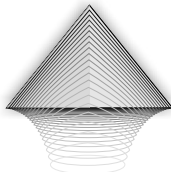
Disclaimer

We are not responsible for any damage that may be caused by the malfunction of this product.

Warranty Card

Model & Serial Number
Customer Name
Phone Number
Day and location of purchase
Vehicle Make and Model

NOTES:



Engineering Performance
Innovations

