AUDIOVOX®
ELECTRONICS CORP.

OWNERS MANUAL
FOR
VEHICLE REVERSE SCANNING SYSTEM
AS-RS

Congratulations

Your purchase of the Audiovox Vehicle Reverse Sensing System will provide you with a highly sophisticated, ultrasonic obstacle detection device for your vehicle. It is manufactured to exacting standards, and under normal circumstances requires little maintenance. Under no circumstances should you attempt to open the control box. Doing so will void all manufacturer's warranties.

Disclaimer: This reverse sensing system is strictly a driver assistance device, and should not be relied upon as a substitute for safe driving practices. Use common sense when reversing, and always follow recommended safe driving guidelines from your local, State or County Department of Motor Vehicles regarding the engagement of reverse gear. To help prevent accidents, always use caution when reversing, looking visually to ensure your path is clear. Keep reversing speeds under 5 miles-per-hour. The Owner shall not be entitled to recover from the Company, its successors or assignees, incidental and consequential damages, such as personal injury, loss of income, loss of time, loss of profits, loss of vehicle use or property damage. No employee, agent or representative of the Company or the Selling Retailer may modify, alter or extend this Warranty in any way. This Warranty gives you specific legal rights. You may also have other rights under this Warranty which may vary state-to-state.

Understanding your Reverse Scanning System's Audible Warning Zones

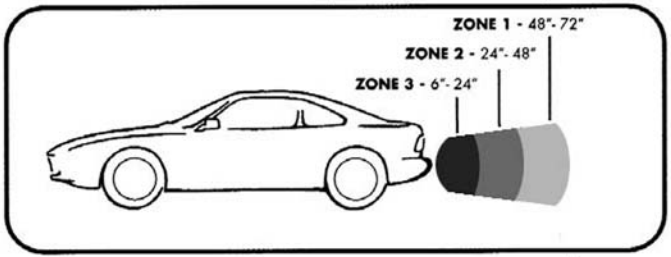
Your system reads ultrasonic signals that are projected from sensors mounted in your vehicle's rear bumper. As the signals "Echo" off of objects in the detection field, the control unit's microprocessor translates them into audible warning tones, or sounds, inside the vehicle which alert the driver. (an optional visual indicator is also available)

Your reverse scanning system will detect in three distinct "Zones", which correspond with your vehicle's distance to an object. The moment you engage reverse gear, you should hear one quick beep, indicating all selected sensors are functional. This alert serves multiple purposes;

1) Notification that the system is activated and is scanning for objects in the detection field.
2) As a reminder that you have selected the reverse gear.
3) As an indication that your reverse scanning system has performed a self-check. If additional "quick beeps" sound, your system may need to be checked. If warning tones continue after reverse is initially selected, check for obstacles behind the vehicle.

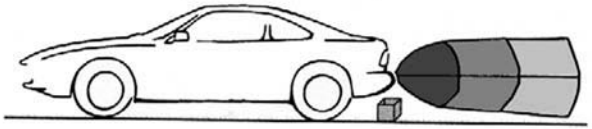
When reversing towards a wall or large, flat object, your detection will be as follows:

"ZONE 1" 6-4 feet, your system will alert you with slow beeps.
"ZONE 2" 4-2 feet, your system will alert you with rapid beeps.
"ZONE 1" 2 feet and inward, your system will alert you with a solid tone. Once you have reached "Zone 2", in any circumstance, use extreme caution as an object is almost in stopping distance. If a moving object enters "Zone 3", the system will "lock" onto it, holding the "Zone 3" solid tone until the object is outside "Zone 2".

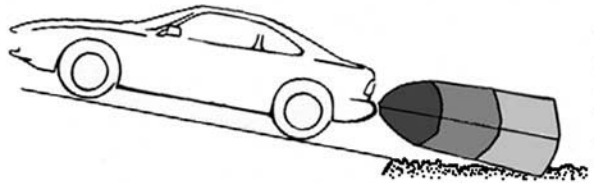


Situations where obstacles may not be detected, or which may provide momentary detection signals

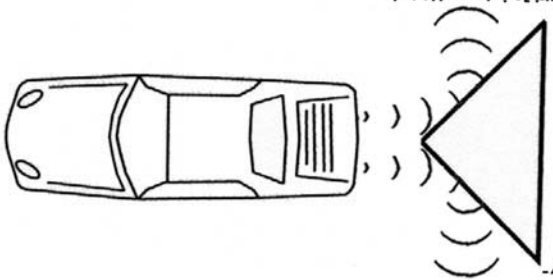
Your reverse scanning system utilizes highly advanced Ultrasonic technology to locate objects in your vehicle's path. Under some circumstances however, an object may not be detected, so always use extreme caution when reversing, looking behind your vehicle and maintaining speeds of less than 5 miles-per-hour.



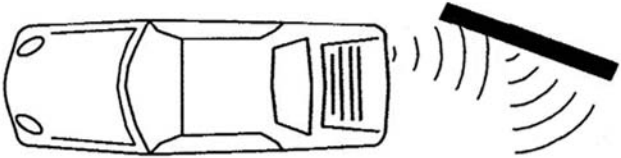
A small object,which is under your bumper or too close to the vehicle may not be detected due to the angle of the sensor's signal.



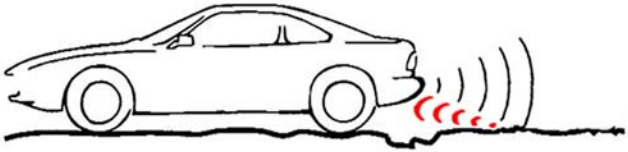
When reversing down a steep slope or driveway, gravel and/or the road surface may cause momentary detection signals due to the sensors following the sloping angle of the vehicle.



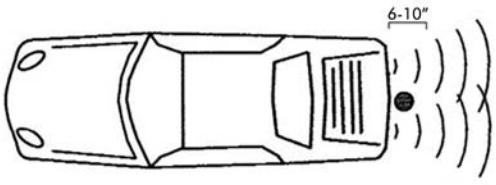
If reversing towards a 90 degree angle, such as a corner of a wall or pillar, sensor detection pattern will refract as shown until vehicle is close enough to receive signal back from corners. in such situations vehicle could reach very close distances before detecting objects.



Reversing at an angle towards a partial wall or other large flat surface may refract ultra-sonic signals, causing the object not to be detected.



Reversing on loose gravel, Rough surfaces, and Pot Holes may produce intermit-tent detection due to signal bouncing off of refractive surfaces behind the vehicle.

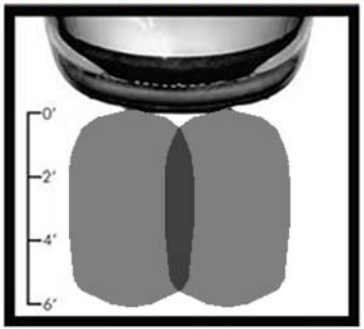


Due to the natural projection angle of the sensors, a natural "no coverage" area is common with the systems. In most cases the average is about 6-10" from bumper. This causes no defect just a reminder to be aware of objects within this space prior to reversing.

Detection Zones

Your reverse scanning system senses objects behind your vehicle using an ultrasonic "detection pattern", this pattern varies depending on your sensor configuration. Understanding the parameters of your detection pattern will make your driving experience safer and enable you to get the best use of your Echomaster system. Objects entering the "detection pattern" will cause your unit to give an audible warning tone. Each individual sensor's detection pattern is approximately 6 feet long by 4 feet wide and has an optional 3 foot by 4 foot outer detection zone setting for the outside sensors. (fig.A)

Sensor patterns (Darker areas indicate overlapping coverage by sensors.)



Passenger vehicle setup with standard 2 sensor configuration. Approx. 6' central detection pattern by 5-8 feet wide depending on installation. CL & CR ports used.

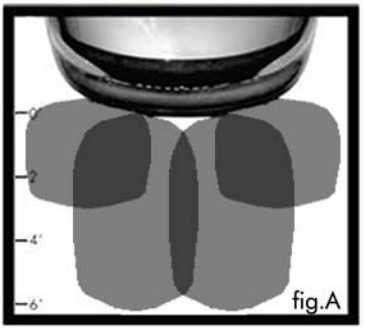


fig.A

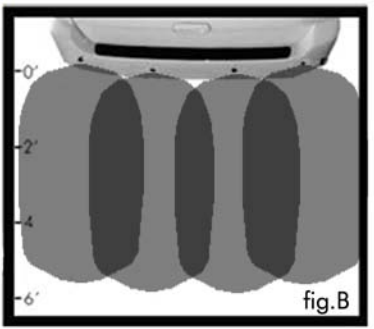


fig.B

Optional 4 sensor configuration. Approximately 6' of central coverage and selectable outer coverage ranges of 3' (fig.A) or 6' (fig.B). Center sensors use CL & CR ports and outer sensors use L & R ports. (fig.A is a passenger vehicle option and fig.B is a commercial option)

Adjusting your Piezo Speaker

Your reverse scanning system comes equipped with an adjustable warning indication speaker to suit your individual needs.

1) HI Volume setting: For any situation where the piezo is mounted at the rear of a large vehicle, away from the driver. Also for anyone wanting a louder warning tone.

2) Low Volume Setting: For smaller vehicles or for anyone wanting a softer warning tone.

3) Off: Used when towing large loads with a trailer hitch.

Note: If your system is equipped with the optional LED display it will remain on. It is not designed to be switched off.

Adjusting your volume setting is easy. Simply move the fingertip slider switch to select the desired setting. (see diagram)

Optional LED Display:

All lights on the display will flash in unison with the Piezo

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Product Information, Photos,
FAQ's Owner's Manuals

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