Parking Assist System Manual
PSB110, PSB120

PSB110 With Buzzer

When Reverse gear is selected, the system will automatically test each sensor each time.

1. If all sensors are working normally you will hear one beep.
2. If one or all sensors are damaged or defective you will hear 3 beeps.
3. If the system is non-functional you will not hear a confirmation beep.

1. All sensors are working normally

2. Damaged sensor is detected

PSB120 With Display

When Reverse gear is selected, the system will automatically test each sensor each time.

1. If all sensors are working normally you will hear one beep.
2. If the system is non-functional you will not hear a confirmation beep.

1. All sensors are working normally

2. Damaged sensor is detected

Important note

1. This product utilizes high voltage. Any unauthorized modifications or damage to the product may result in electrical shock. Handle all components with care. Inspect regularly for damage to components and cabling.
2. You are responsible for ensuring that the installation of this product does not void or affect the vehicle manufacturer’s warranty. VOXX Electronics Corporation or its subsidiaries are not liable for any damages or lost time incurred in the installation process. This warranty is not transferable or assignable. Proof of purchase is required in the form of an original sales receipt. Internet sales outlets are NOT Authorized retailers in most cases. Call 1-800-323-4815 with any questions.
3. The product is intended to assist the driver in safe driving by signaling the driver of the distance to obstacles in close proximity to the vehicle while the vehicle is in reverse moving slowly. You, as the driver, are solely responsible for the safe operation of your vehicle and the safety of your passengers according to your local traffic regulations. Do not use any features of this system to the extent it distracts you from safe driving. Your first priority while driving should always be the safe operation of your vehicle and the safety of your passengers according to your local traffic regulations. Do not use any features of this system to the extent it distracts you from safe driving. Your first priority while driving should always be the safe operation of your vehicle. VOXX International Electronics Corporation cannot accept any responsibility whatsoever for accidents resulting from failure to observe these precautions or safety instructions.

Specifications

- Input voltage: 9-16V DC
- Beep SPL: 70 - 90 dB
- Droop range: 6.3 m - 2.5m/1 ft - 8.2 ft
- Buzzer range: 0.3m-4m/1ft-13ft
- Sensor installation height: 45 cm - 65 cm
- Sensor Mounting Hole Size: 18.8mm

Self-test function

- Buzzer or LED display
- Display
- Buzzer
- LED indicator

How does the system work

- Display
- Distance
- Sound level
- Low
- Medium
- High
- Key features
  - 4 sensor system with audible buzzer or LED display
  - Anti-glare technology
  - Self-test function
  - All weather design

Disclaimer

This Rear Parking Sensor System is designed to assist the driver by providing an alert when an object is behind the vehicle whenever the vehicle is shifted into reverse. Never rely solely on this product to ensure the safety of passengers. Always use caution. This product is not intended to replace existing safety procedures, but rather to add an additional safety tool for your vehicle.

Your backup sensing system transmits and receives ultrasonic waves from the sensors mounted in your vehicle’s rear bumper. As the transmitted waves bounce off obstacles behind your vehicle and are received back by the sensors, the unit’s control box converts these waves into warning sounds, or beeps, which alerts you, the driver, of obstacles behind your vehicle.

About the product

VOXX Electronics Corporation is committed to quality and customer service, and is pleased to offer you this warranty. Please read it thoroughly and contact the Company at 1-800-323-4815 with any questions.

Who is covered? VOXX extends this warranty to the original retail purchaser of products purchased through an authorized retailer or distributor in the U.S.A., Puerto Rico or Canada. This warranty is not transferable or assignable. Proof of purchase is required in the form of an original sales receipt. Internet sales outlets are NOT Authorized Retailers in most cases. Call 1-800-323-4815 with any questions.

What is covered? Voxx extends this warranty to the original retail purchaser of products purchased through an authorized retailer or distributor in the U.S.A., Puerto Rico or Canada. • You must prepay the initial shipping charges to the Company. The Company will pay the return shipping charges for all warranted products returned to an address within the U.S.A., Puerto Rico or Canada. • Please package the product securely to avoid shipping damage. • Damaged or lost packages are not covered by this warranty. • Provide a detailed description of the problem(s) for which you require service. • Missing or damaged packages are not covered by this warranty. • Defects in cosmetic, decorative or non-operational structural parts. • Correction of installation problems. Costs incurred for installation, removal or reinstallation of the product. • Cost of installation of replacements to other accessory items or electronic systems including vehicle batteries. • Damaged caused by improper installation, mishandling, misuse, neglect, accident, stolen fuse, battery leakage, theft, or improper storage • Products whose factory serial number/bar code label(s) or markings have been removed or defaced. • Damage resulting from natural disasters, extreme environmental conditions or external natural causes.

Limitation: THE EXTENT OF THE COMPANY’S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT PROVIDED ABOVE AND, IN NO EVENT, SHALL THE COMPANY’S LIABILITY EXCEED THE PURCHASE PRICE PAID BY PURCHASER FOR THE PRODUCT. This Warranty is in lieu of all other express warranties or liabilities. • ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY SHALL BE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. ANY ACTION FOR BREACH OF ANY WARRANTY HEREUNDER INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY MUST BE BROUGHT WITHIN A PERIOD OF 36 MONTHS FROM DATE OF ORIGINAL PURCHASE, IN NO CASE SHALL THE COMPANY BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED. VOXX ELECTRONICS CORPORATION OR ITS SUBSIDIARIES SHALL NOT BE LIABLE FOR ANY DAMAGES WHATSOEVER FOR ACCIDENTS RESULTING FROM FAILURE TO OBSERVE THESE PRECAUTIONS OR SAFETY INSTRUCTIONS.

Disclaimer

This product is intended to assist in safe driving by signaling the driver of the distance to obstacles in close proximity to the vehicle while the vehicle is in reverse moving slowly. You, as the driver, are solely responsible for the safe operation of your vehicle and the safety of your passengers according to your local traffic regulations. Do not use any features of this system to the extent it distracts you from safe driving. Your first priority while driving should always be the safe operation of your vehicle. VOXX International Electronics Corporation cannot accept any responsibility whatsoever for accidents resulting from failure to observe these precautions or safety instructions.
**Attention**

Your system may alert to some situations and accuracy can be affected by the examples of situations below:

- **Always use mirrors and caution when backing.**
- **If the automatic self test alerts you to a problem: STOP!**
- **Park, wrap, or any other material as this will block the sensor.**
- **Do not cover sensors with paint protection film, stickers, vehicle objects can cause false alerts or reduce sensitivity.**
- **Sensors that are dirty, covered with snow / ice, heavy rain, or other objects can cause false alerts or reduce sensitivity.**
- **Always completely test the system after installation or modification.**
- **Always use mirrors and caution when backing.**

**Sensor maintenance**

- **DO NOT directly spray the sensors with high pressure car wash wands.**
- **Normal drive through car washes are OK.**
- **Washing your car with low pressure water and a soft sponge or cloth is always the best way to insure a clean sensor surface and best operation.**
- **If your sensors are covered by snow and ice use warm water to melt away the ice. Do not use a scraper over the sensor surface, this could damage the sensor and effect its operation.**
- **Sand, mud, and road debris should also be washed away with warm water, soap, and a soft cleaning cloth to insure the sensor surface is not damaged.**

**Installation diagram**

- **Sensors MUST be installed and plugged in as shown for correct zones.**

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**System Testing**

**After installation is complete you should test the system.**

- With the vehicle on a flat surface with no obstructions (not inside the shop), ignition OFF and parking brake engaged. Turn the ignition on and have someone inside the vehicle place their foot on the brakes and shift the vehicle to Reverse. Stand to the side of the vehicle and place your hand over each sensor one at a time. You will hear a beep or see the display confirming operation of each sensor. Once done place the vehicle in PARK. Next using a traffic cone or board (1’ x 3’) placed 9 feet or more behind the vehicle, (do not stand behind the vehicle) slowly back up to the object. The sensor should give you a series of beeps increasing in speed until you reach the safety zone. The backup to the object. The sensor should give you a series of beeps increasing in speed until you reach the safety zone. The buzzer will give a solid tone: STOP. The system is working correctly if all of these tests are successful.

**Troubleshooting**

- **After installation the buzzer or display does not operate.**
  - A) Check all wire connections
  - B) Make sure the vehicle ignition is on.
  - C) Is the vehicle in Reverse - White reverse lamp is on?
  - D) Is there enough current in the lamp circuit to operate the sensors? LED and low current lighting systems may require additional power and a relay.

- **The system shows a damaged or non-working sensor.**
  - A) Make sure all sensor connections are secure at the module.
  - B) Check to make sure all waterproof connectors at the sensors lead are correctly connected and secure.
  - C) Make sure the sensor is not covered or blocked.
  - D) Make sure that the sensor has not been damaged.

- **The system instantly gives a solid or false warning.**
  - A) Are all sensors connected correctly? 
  - B) Is the power source / ground correct and sufficient to operate the system? 
  - C) Are the sensors in correctly with UP in the correct position?

- **If these problems persist:**
  - A) For consumers - Please contact the installing dealer or car dealer.
  - B) Dealer/Installer
    1) Replace the ECU and check the system
    2) Repeat the system testing instructions to identify the issue.
    3) Replace any non-functioning sensor.

Contact VOXX Tech support at 800-323-4815 for further help.