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› Prestige AS9492a Dual Zone Shock Sensor User Manual

Audiovox AS9492a

Prestige AS9492a Dual Zone Shock Sensor User Manual

Model: AS9492a (P/N: 8523748810)

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Prestige AS9492a Dual Zone Shock Sensor. This sensor is designed to enhance the security of your vehicle by detecting impacts and triggering your car alarm system.

The AS9492a is a dual-stage piezo shock sensor. It features a warn-away function for light impacts and a full trigger for harder impacts, providing comprehensive protection. It is compatible with various car alarm systems, including Audiovox, Carbine, Code Alarm, Prestige, and Pursuit systems.

PRODUCT OVERVIEW



Figure 1: Prestige AS9492a Dual Zone Shock Sensor. The image displays the sensor unit, its packaging box labeled "AUTO SECURITY AUDIOVOX AS 9492A SHOCK SENSOR", and the accompanying wiring harness. The sensor unit itself is a black rectangular device with indicator LEDs (red and green) and a sensitivity adjustment screw.

The Prestige AS9492a shock sensor is a compact unit designed for discreet installation. It includes a main sensor module, a wiring harness for connection to the alarm system, and features indicator LEDs for testing and sensitivity adjustment.

- **Dual Stage Detection:** Provides a warn-away signal for minor impacts and a full alarm trigger for significant impacts.
- **Adjustable Sensitivity:** Allows customization of detection levels for both stages.
- **LED Indicators:** Separate LEDs for each zone (warn-away and full trigger) assist in testing and setup.
- **Universal Compatibility:** Can be integrated with various car alarm systems, though hardwiring may be required.

SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance of the AS9492a shock sensor. It is recommended that installation be performed by a qualified automotive technician.

Tools and Materials Required:

- Wire strippers/crimpers
- Electrical tape or heat shrink tubing
- Multimeter (for testing connections)
- Small flat-head screwdriver (for sensitivity adjustment)
- Zip ties or mounting tape

Installation Steps:

1. **Disconnect Vehicle Battery:** Before beginning any wiring, disconnect the negative terminal of your vehicle's battery to prevent accidental short circuits.
2. **Choose Mounting Location:** Select a secure, flat surface within the vehicle's cabin, typically under the dashboard or center console. The location should be central to the vehicle to ensure even shock detection. Avoid mounting on flexible panels or near heat sources.
3. **Mount the Sensor:** Secure the AS9492a sensor using screws, zip ties, or strong double-sided mounting tape. Ensure it is firmly attached and will not vibrate independently.
4. **Wire the Sensor:** Connect the sensor's wiring harness to your car alarm system according to the alarm system's wiring diagram. The AS9492a typically requires connections for:
 - **Power (12V Constant or Switched):** Connect to a fused 12V power source.
 - **Ground:** Connect to a solid chassis ground point.
 - **Warn-Away Output:** Connect to the alarm system's warn-away or pre-warn input.
 - **Full Trigger Output:** Connect to the alarm system's main trigger input.

Note: If your alarm system does not have dedicated inputs, the sensor may need to be hardwired, requiring the cutting of the sensor's plug and direct splicing. Refer to your alarm system's manual for specific wiring requirements.

5. **Reconnect Vehicle Battery:** Once all wiring connections are secure and insulated, reconnect the negative terminal of the vehicle battery.

OPERATION AND SENSITIVITY ADJUSTMENT

After installation, the sensor's sensitivity must be calibrated to your vehicle and personal preference.

Sensitivity Adjustment:

The AS9492a features a sensitivity adjustment screw on the sensor unit. This screw controls both the warn-away and full trigger sensitivity simultaneously.

1. **Arm the Alarm System:** Ensure your car alarm system is armed.
2. **Test Warn-Away Zone:** Gently tap the vehicle's body (e.g., fender, door panel) with your open palm. The red LED on the sensor should flash, and your alarm system should emit a warn-away chirp or short siren burst. If it does not, increase sensitivity by turning the adjustment screw clockwise. If it triggers too easily (e.g., from passing traffic), decrease sensitivity by turning it counter-clockwise.
3. **Test Full Trigger Zone:** Apply a slightly harder impact to the vehicle's body (e.g., a firm tap with your fist). The green LED on the sensor should flash, and your alarm system should trigger a full siren alarm. Adjust sensitivity as needed using the same method as the warn-away zone.
4. **Fine-Tune:** Continue testing and adjusting until the desired sensitivity is achieved. The goal is to detect legitimate threats without false alarms.

The separate LEDs for each zone (red for warn-away, green for full trigger) provide visual feedback during the adjustment process, indicating which stage of detection has been activated.

MAINTENANCE

The Prestige AS9492a shock sensor is designed for long-term, maintenance-free operation. However, periodic checks can ensure continued optimal performance.

- **Periodic Testing:** It is recommended to periodically test the sensor's functionality (e.g., every 6-12 months) by performing the sensitivity adjustment steps outlined in the "Operation" section.
- **Check Mounting:** Ensure the sensor remains securely mounted and has not come loose due to vehicle vibrations. A loose sensor can lead to false alarms or reduced detection capability.
- **Inspect Wiring:** Visually inspect the wiring connections for any signs of wear, corrosion, or damage. Ensure all connections remain secure.
- **Keep Dry:** While the sensor is designed for automotive environments, avoid direct exposure to water or excessive moisture. Ensure its mounting location is dry.

TROUBLESHOOTING

If you experience issues with your AS9492a shock sensor, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Sensor not triggering alarm.	Low sensitivity setting. Incorrect wiring connections. Sensor unit malfunction. Alarm system not armed or faulty input.	Increase sensitivity (turn screw clockwise). Verify all wiring connections against your alarm system's diagram. Test sensor LEDs during impact; if they don't light up, the sensor may be faulty. Ensure alarm system is armed and its trigger inputs are functional.
False alarms (alarm triggers without impact).	High sensitivity setting. Loose mounting of the sensor. Sensor mounted on a vibrating surface. Vehicle vibrations (e.g., heavy traffic, loud exhaust).	Decrease sensitivity (turn screw counter-clockwise). Re-secure the sensor firmly to a stable surface. Relocate the sensor to a more stable mounting point. Adjust sensitivity to tolerate normal environmental vibrations.
Only warn-away triggers, no full alarm.	Sensitivity too low for full trigger. Incorrect wiring for full trigger output.	Increase sensitivity and test with harder impacts. Verify the full trigger output wire is correctly connected to the alarm system's main trigger input.

If problems persist after attempting these solutions, contact a professional automotive electronics technician or the product manufacturer for further assistance.

SPECIFICATIONS

Feature	Detail
Model Number	AS9492a (P/N: 8523748810)
Product Type	Dual Zone Piezo Shock Sensor
Brand	Audiovox (Manufactured by lessco)
Detection Zones	2 (Warn-Away and Full Trigger)

Feature	Detail
Compatibility	Audiovox, Carbine, Code Alarm, Prestige, Pursuit Systems (Universal, hardwiring may be required)
Item Weight	1.62 ounces (approx. 46 grams)
Package Dimensions	3.46 x 2.8 x 1.14 inches (approx. 8.79 x 7.11 x 2.90 cm)
First Available Date	August 25, 2016

WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided with your original purchase or contact Audiovox customer support. Specific warranty terms may vary based on region and retailer.

For technical support, installation assistance, or troubleshooting beyond the scope of this manual, please contact your authorized Audiovox dealer or visit the official Audiovox support website. Ensure you have your product model number (AS9492a) and purchase details available when seeking support.

Note: Unauthorized modifications or improper installation may void the product warranty.

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Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

