Atrend E12S

Atrend Bbox E12S Single Sealed 12 Inch Subwoofer Enclosure Instruction Manual

Model: E12S | Brand: Atrend

Introduction

This manual provides instructions for the proper installation, operation, and maintenance of your Atrend Bbox E12S Single Sealed 12 Inch Subwoofer Enclosure. The E12S is a pro-tuned, single sealed wedge-shaped enclosure designed for optimal bass response and low-frequency reproduction, suitable for lower profile sound quality subwoofers. Constructed from durable 3/4 inch thick high-grade MDF, this enclosure features an airtight and resonant-free design to minimize rattles and enhance overall sound quality. Its compact dimensions make it ideal for installations in tight spaces, such as behind or under seats in trucks and SUVs.
Dimensions: Height: 13.5 inches, Width: 15.5 inches, Depth: 9.5 inches.

What's in the Box

- One (1) Atrend Bbox E12S Single Sealed 12 Inch Subwoofer Enclosure

Note: Subwoofer speaker is not included with this enclosure and must be purchased separately.

Setup and Installation

Proper installation is crucial for optimal performance and longevity of your subwoofer enclosure. Follow these steps carefully:

1. **Unpacking and Inspection:** Carefully remove the enclosure from its packaging. Inspect the enclosure for any signs of damage during transit. Ensure the charcoal carpeting is intact and all joints are sealed.
2. **Subwoofer Selection:** Ensure your chosen 12-inch subwoofer is compatible with a sealed enclosure and its mounting depth and volume requirements match the E12S specifications. The enclosure has a maximum mounting depth of 8.00 inches and a net volume per woofer of approximately 0.67 cubic feet.
3. **Subwoofer Mounting:**
    - Position the subwoofer into the enclosure's opening.
    - Before fastening, it is recommended to pre-drill pilot holes for the subwoofer mounting screws. This prevents splitting the MDF material and ensures a secure fit.

- Secure the subwoofer using appropriate screws, ensuring an even and tight seal around the mounting flange.

4. **Wiring Connections:**
   - Locate the red and black spring terminals on the enclosure.
   - Connect your amplifier's speaker wires to these terminals. Ensure correct polarity: positive (+) to red, negative (-) to black.
   - Verify that all connections are secure and free from shorts.
5. **Placement in Vehicle:**
   - The wedge design is optimized for placement in tight spaces such as vehicle trunks, behind truck seats, or in SUV cargo areas.
   - Position the enclosure securely to prevent movement during vehicle operation.

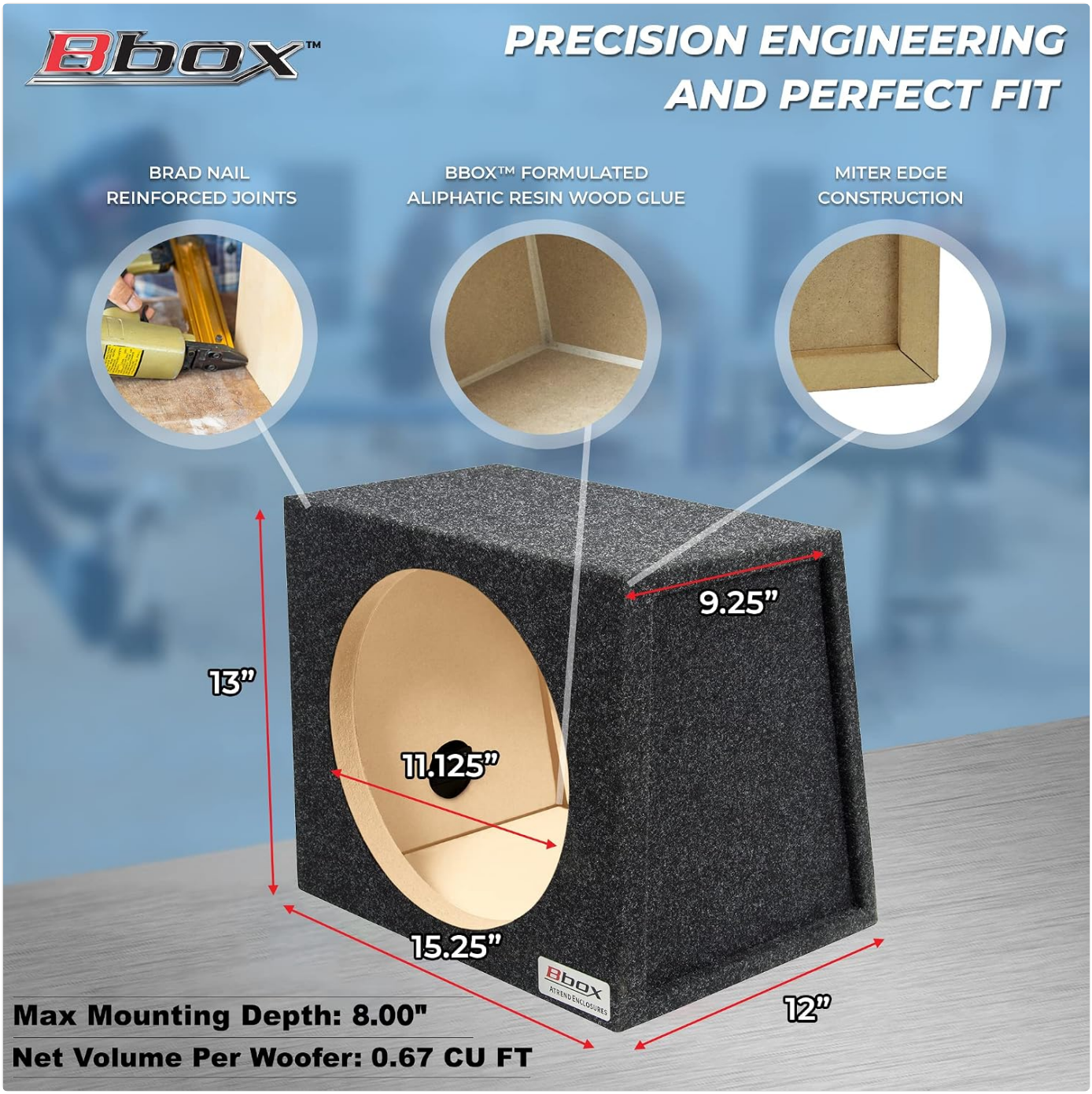


Figure 1: Enclosure dimensions and construction details. Note the 9.25" depth, 15.25" width, 13" height, and 11.125" cutout diameter. Max mounting depth is 8.00".



Figure 2: Key features of the enclosure, including high-grade MDF, quality spring terminals, plush charcoal carpeting, and a 1-inch hardwood MDF faceplate.

Operating Instructions

Once the subwoofer is securely mounted and wired within the Atrend Bbox E12S enclosure, connect it to a compatible amplifier. The sealed design of this enclosure is optimized for tight, accurate bass response and efficient low-frequency reproduction. Adjust your amplifier settings (gain, crossover, phase) according to your subwoofer manufacturer's recommendations and your personal audio preferences. Start with low volume and gradually increase to avoid damage to your subwoofer or amplifier.



Figure 3: Example of the subwoofer enclosure installed in a vehicle trunk.

Maintenance

The Atrend Bbox E12S enclosure requires minimal maintenance to ensure its longevity and performance:

- **Cleaning:** Use a soft brush or vacuum cleaner to remove dust and debris from the charcoal carpeting. For stubborn spots, a damp cloth with mild soap can be used, but avoid saturating the material.
- **Inspection:** Periodically check the enclosure for any signs of wear, such as loose carpeting, damaged corners, or compromised seals around the subwoofer or terminal cup. Address any issues promptly to maintain acoustic integrity.
- **Environmental Conditions:** Avoid exposing the enclosure to extreme temperatures, direct sunlight for prolonged periods, or excessive moisture, as these can degrade the MDF and carpeting over time.

Troubleshooting

If you encounter issues with your subwoofer system, consider the following common troubleshooting steps:

Problem	Possible Cause	Solution
No Sound from Subwoofer	◦ Loose or incorrect wiring connections. ◦ Amplifier not powered on or in protect mode. ◦ Subwoofer damaged.	◦ Check all speaker wire connections at the enclosure and amplifier for proper polarity and tightness. ◦ Verify amplifier power and status indicators. ◦ Test subwoofer with another enclosure or amplifier if possible.
Distorted or Poor Sound Quality	◦ Incorrect amplifier settings (gain too high, improper crossover). ◦ Subwoofer not properly sealed in enclosure. ◦ Enclosure rattling or vibrating.	◦ Adjust amplifier gain, crossover frequency, and phase settings. Consult your subwoofer's manual. ◦ Ensure subwoofer mounting screws are tight and there are no air leaks around the subwoofer or terminal cup. ◦ Check for loose items in the vehicle or within the enclosure. Secure the enclosure to prevent movement.
Enclosure Rattling	◦ Loose subwoofer mounting. ◦ Loose internal bracing or joints. ◦ Items in the vehicle vibrating against the enclosure.	◦ Tighten subwoofer mounting screws. ◦ Inspect the enclosure for any visible gaps or loose parts. The enclosure is constructed with aliphatic wood glue and brad nails for an airtight seal. ◦ Relocate or secure any items in the vehicle that may be causing vibrations.

For issues specific to your subwoofer or amplifier, refer to their respective instruction manuals.

Specifications

Feature	Detail
Model Number	E12S
Speaker Size Compatibility	12 inches
Enclosure Type	Single Sealed, Wedge Shape
Enclosure Material	High-Grade 3/4" MDF (Medium-Density Fiberboard)
Exterior Finish	Charcoal Carpeting
Terminal Type	Red & Black Spring Terminals
Item Dimensions (D x W x H)	9.25"D x 15.25"W x 13"H
Net Volume Per Woofer	Approximately 0.67 cubic feet (19 liters)
Maximum Mounting Depth	8.00 inches
Item Weight	14 pounds

Warranty and Support

This Atrend Bbox E12S Subwoofer Enclosure comes with a Limited Warranty. For specific details regarding warranty coverage, duration, and terms, please refer to the warranty documentation provided with your purchase or contact Atrend customer support directly.

For technical assistance, troubleshooting not covered in this manual, or warranty claims, please contact Atrend customer support through their official website or the contact information provided at the point of purchase.

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