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American Bass XO 1044



American Bass XO 1044 10-Inch Car Subwoofer User Manual

Model: XO 1044

1. INTRODUCTION

Thank you for choosing the American Bass XO 1044 10-inch car subwoofer. This manual provides essential information for the proper installation, operation, and maintenance of your new subwoofer. Please read this manual thoroughly before attempting installation or use to ensure optimal performance and longevity of your product.



Image 1.1: Front view of the American Bass XO 10-inch subwoofer, showcasing its design and the American Bass logo on the cone.

2. SAFETY INFORMATION

Always observe the following safety precautions during installation and operation:

- Disconnect the vehicle's negative battery terminal before any electrical work.
- Ensure all wiring is properly insulated to prevent short circuits.
- Mount the subwoofer securely to prevent movement during vehicle operation.
- Avoid exposing the subwoofer to excessive moisture or extreme temperatures.
- Do not operate the subwoofer at distortion levels, as this can cause permanent damage.
- Consult a professional car audio installer if you are unsure about any installation steps.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- American Bass XO 1044 10-inch Subwoofer
- American Bass Decal

- Owner's Manual (this document)

4. FEATURES

The American Bass XO 1044 subwoofer is designed for powerful bass reproduction in car audio systems. Key features include:

- 10-inch Dual Voice Coil (DVC) design
- 4 Ohm nominal impedance per voice coil
- 600 Watts Peak Power handling
- 350 Watts RMS Power handling
- 90 oz Magnet Size
- 2-inch Voice Coil Size

5. SETUP AND INSTALLATION

Proper installation is crucial for the performance and safety of your subwoofer. This subwoofer is designed for enclosure mounting in a car audio environment.

5.1. Enclosure Selection

The XO 1044 subwoofer requires a suitable enclosure for optimal performance. Consult a car audio specialist or use online resources to determine the ideal sealed or ported enclosure volume for your specific application and desired sound characteristics.

5.2. Wiring Options (Dual Voice Coil 4 Ohm)

The XO 1044 features a Dual Voice Coil (DVC) with each coil having a 4 Ohm impedance. This allows for flexible wiring configurations to match your amplifier's capabilities:

- **2 Ohm Load:** Wire the two 4 Ohm voice coils in parallel. This configuration is suitable for amplifiers stable at 2 Ohms.
- **8 Ohm Load:** Wire the two 4 Ohm voice coils in series. This configuration is suitable for amplifiers stable at 8 Ohms.

Ensure your amplifier is stable at the chosen impedance. Refer to your amplifier's manual for its impedance capabilities.



Image 5.1: Rear view of the American Bass XO 10-inch subwoofer, showing the dual voice coil terminals for wiring connections.

5.3. Power Connection

Connect the subwoofer to a high-powered car audio amplifier capable of delivering 350 Watts RMS at the chosen impedance. Use appropriate gauge speaker wire for the power levels involved. Ensure all connections are secure and free from corrosion.



Image 5.2: American Bass XO 10-inch subwoofer, illustrating the robust magnet structure and overall build.

6. OPERATING INSTRUCTIONS

6.1. Initial Break-in Period

Allow a break-in period of approximately 10-20 hours of normal listening before operating the subwoofer at high volumes. This allows the suspension components to loosen and reach their optimal performance characteristics.

6.2. Amplifier Gain Setting

Set your amplifier's gain correctly to match the output voltage of your head unit. An improperly set gain can lead to distortion and potential damage to the subwoofer. It is recommended to use a digital multimeter or an oscilloscope to set the gain accurately, or consult a professional installer.

6.3. Crossover and Subsonic Filter Settings

Utilize your amplifier's or head unit's low-pass filter (LPF) to send only low frequencies to the subwoofer. A typical

LPF setting for a 10-inch subwoofer might be between 60Hz and 100Hz. If available, use a subsonic filter (high-pass filter for the subwoofer) to protect the subwoofer from extremely low frequencies below its operational range, typically set around 25Hz to 30Hz.

7. MAINTENANCE

The American Bass XO 1044 subwoofer requires minimal maintenance to ensure long-term performance:

- **Cleaning:** Use a soft, dry cloth to wipe down the cone and surround. Avoid using harsh chemicals or excessive moisture.
- **Inspection:** Periodically check all wiring connections for tightness and signs of corrosion. Inspect the subwoofer's cone and surround for any tears, punctures, or damage.
- **Environment:** Ensure the subwoofer is installed in a location protected from direct sunlight, extreme temperatures, and moisture.

8. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
No Sound	No power to amplifier; loose speaker wires; incorrect wiring; amplifier in protect mode.	Check amplifier power and ground connections. Verify speaker wire connections at both the subwoofer and amplifier. Ensure correct impedance wiring. Check amplifier's protection indicator.
Distorted Sound	Amplifier gain set too high; incorrect crossover settings; damaged subwoofer.	Reduce amplifier gain. Adjust LPF and subsonic filter settings. Inspect subwoofer for physical damage.
Weak Bass Output	Incorrect enclosure volume; amplifier gain too low; phase issues.	Verify enclosure is appropriate for the subwoofer. Increase amplifier gain gradually. Check phase setting on amplifier or head unit.
Subwoofer Overheating	Underpowered amplifier; prolonged high volume use; incorrect impedance match.	Ensure amplifier provides sufficient RMS power. Reduce listening volume. Verify correct impedance wiring.

If troubleshooting steps do not resolve the issue, contact American Bass customer support or a qualified car audio technician.

9. SPECIFICATIONS

Detailed technical specifications for the American Bass XO 1044 10-inch Car Subwoofer:



Image 9.1: Close-up of the subwoofer's magnet, showing some technical details.

Specification	Value
Model	XO 1044
Speaker Type	Car Subwoofer
Subwoofer Diameter	10 Inches
Voice Coil Configuration	Dual Voice Coil (DVC)
Nominal Impedance	4 Ohms per coil (DVC 4 Ohm)
Peak Power Handling	600 Watts
RMS Power Handling	350 Watts
Magnet Size	90 oz
Voice Coil Size	2 inches

Specification	Value
Item Weight	13 Pounds
Shape	Round
Connectivity	Wired
Manufacturer	American Bass
Low Frequency Response	37.5 Hz
UPC	636823698300

10. WARRANTY INFORMATION

The American Bass XO 1044 subwoofer comes with a limited warranty. Please refer to the warranty card included with your product or visit the official American Bass website for detailed terms and conditions regarding warranty coverage, duration, and claims process.

11. SUPPORT

For technical assistance, product inquiries, or warranty claims, please contact American Bass customer support through their official website or the contact information provided on your product packaging. When contacting support, please have your model number (XO 1044) and proof of purchase readily available.