



Manuals.plus /

› American Bass /

› American Bass XFL-1222 12-Inch Dual 2-Ohm Car Subwoofer Instruction Manual

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Model: XFL-1222

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your American Bass XFL-1222 12-inch Dual 2-Ohm Car Subwoofer. Please read this manual thoroughly before attempting installation or operation to ensure optimal performance and longevity of your product.

The American Bass XFL-1222 is a high-performance 12-inch subwoofer designed for car audio systems, featuring a heavy-duty cast basket, a 3-inch voice coil, and a 200 oz magnet, capable of handling 1500 Watts RMS and 3000 Watts Peak Power.

SAFETY INFORMATION

Always prioritize safety during installation and operation. Failure to follow safety guidelines may result in injury or damage to equipment.

- Disconnect the vehicle's battery before beginning any electrical work.
- Ensure all wiring is correctly routed and secured to prevent shorts or damage.
- Use appropriate gauge wiring for power, ground, and speaker connections.
- Avoid mounting the subwoofer in locations that obstruct vehicle operation or safety features.
- Operating at excessively high volumes for prolonged periods can cause hearing damage.

SETUP

Unpacking

Carefully remove the subwoofer from its packaging. Inspect the unit for any signs of damage that may have occurred during shipping. Retain all packaging materials for future use or in case of a return.

Mounting

The XFL-1222 subwoofer is designed for enclosure mounting. Proper enclosure design is crucial for

optimal performance. Consult with a car audio professional or use specialized software to design an appropriate sealed or ported enclosure for your specific vehicle and listening preferences. The subwoofer requires a cutout diameter of 11.3 inches (28.7 cm) and has a mounting depth of 6.69 inches (17 cm).



Figure 1: Front view of the American Bass XFL-1222 subwoofer, showcasing the cone and surround.



Figure 2: Rear view of the American Bass XFL-1222 subwoofer, showing the robust magnet structure and cast basket.

Wiring

The XFL-1222 features a Dual Voice Coil (DVC) 2-Ohm configuration. This allows for various wiring options to match your amplifier's impedance requirements. Common configurations include wiring the voice coils in series for a 4-Ohm load or in parallel for a 1-Ohm load. When using multiple subwoofers, further series or parallel wiring can be applied to achieve the desired final impedance.

For detailed visual instructions on wiring configurations, please refer to the video below:

Video 1: Detailed guide on wiring configurations for dual voice coil subwoofers, including series and parallel options to achieve different impedance loads.

Connection to Amplifier

Connect the subwoofer to a high-powered car audio amplifier capable of delivering the required RMS power at the chosen impedance. Ensure all connections are secure and polarity is correct (positive to positive, negative to negative) to prevent phase issues and ensure proper sound reproduction.

OPERATING

Initial Power-Up

After installation, double-check all connections before powering on your system. Start with the amplifier gain set to its minimum. Gradually increase the volume and adjust the gain settings on your amplifier to achieve the desired sound level without distortion. Listen for any unusual noises or signs of stress from the subwoofer.

Break-In Period

Like many high-performance audio components, your XFL-1222 subwoofer benefits from a break-in period. During the first 20-30 hours of use, operate the subwoofer at moderate volume levels. This allows the suspension components (surround and spider) to loosen up and reach their optimal flexibility, leading to improved long-term performance and sound quality.

MAINTENANCE

Cleaning

Keep the subwoofer cone and surround free from dust and debris. Use a soft, dry cloth to gently wipe the surfaces. Avoid using harsh chemicals or excessive moisture, as these can damage the materials.

Inspection

Periodically inspect the subwoofer for any signs of wear or damage, such as tears in the surround, loose connections, or unusual noises. Address any issues promptly to prevent further damage.

TROUBLESHOOTING

- **No Sound:** Check all power, ground, and remote turn-on connections to the amplifier. Verify speaker wire connections at both the subwoofer and amplifier. Ensure the amplifier is powered on and not in protection mode.
- **Distorted Sound:** Reduce the amplifier gain. Check for proper impedance matching between the subwoofer and amplifier. Ensure the enclosure is sealed properly (if applicable) and free from air leaks.
- **Overheating:** Ensure adequate ventilation around the amplifier. Verify correct impedance matching. Prolonged operation at maximum power can lead to overheating.

SPECIFICATIONS

Feature	Specification
Model Number	XFL-1222
Brand	American Bass
Subwoofer Diameter	12 Inches
Impedance	Dual 2 Ohms
RMS Power	1500 Watts
Peak Power	3000 Watts
Voice Coil Size	3 Inches
Magnet Size	200 oz
Mounting Type	Enclosure
Material	Cast (Basket)
Mounting Depth	8.34 Inches (21.18 cm)
Cutout Diameter	12.8 Inches (32.51 cm)
Frequency Response	35.3 Hz (Specific value, general range 30 Hz - 150 Hz)
Signal-to-Noise Ratio	87.8 dB
Item Weight	38 Pounds (17.24 kg)
Product Dimensions	3.5"D x 12.8"W x 11.4"H (8.89 cm D x 32.51 cm W x 28.96 cm H)
Water Resistance Level	Not Water Resistant
Included Components	American Bass Decal & Owner's Manual

WARRANTY

This product comes with a limited warranty. For specific details regarding warranty coverage, duration, and claims procedures, please refer to the warranty card included with your purchase or contact American Bass customer support.

SUPPORT

For technical assistance, troubleshooting, or further information about your American Bass XFL-1222 subwoofer, please visit the official American Bass website or contact their customer support team. Contact information can typically be found on the product packaging or the manufacturer's website.