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> H YANKA BSF-12-2 12 Inch Car Subwoofer Instruction Manual

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Model: BSF-12-2

INTRODUCTION

Thank you for choosing the H YANKA BSF-12-2 12 Inch Car Subwoofer. This high-performance subwoofer is designed to deliver powerful, deep bass for an enhanced audio experience in your car, truck, or SUV. This manual provides essential information for proper installation, operation, and maintenance to ensure optimal performance and longevity of your subwoofer. Please read these instructions carefully before installation and use.

PRODUCT FEATURES

- **Powerful Deep Bass Output:** 12-Inch high-performance subwoofer delivers hard-hitting, resonant low frequency. 900W RMS & 1800W max power brings strong bass impact for hip-hop, rock and electronic music inside your vehicle.
- **Dual 2-Ohm Voice Coil:** 2.5-inch dual voice coil with dual 2-ohm impedance, supports multiple wiring configurations. Easy to match different amplifiers, fit for audio enthusiasts and daily car audio upgrade.
- **High-Grade Magnetic Assembly:** Adopts double Y35 grade magnet structure. 0.55-inch Xmax allows large cone excursion, producing deeper bass without distortion under high-volume playback.
- **Sturdy Premium Construction:** Paper cone paired with black aluminum basket. Robust mechanical structure resists vibration from rough road, keeps stable sound output during long-time heavy-load playback.
- **Reliable for Daily & Heavy Use:** Frequency response 45-1000Hz, 87dB sensitivity. Designed for cars, trucks and SUVs. Suitable for daily commute as well as loud music playback for car audio modification.

SPECIFICATIONS

Feature	Specification
Brand	H YANKA
Model Number	BSF-12-2

Speaker Maximum Output Power	1800 watts
RMS Power	900 watts
Frequency Response	45-1000 Hz
Impedance	Dual 2 Ohm
Sensitivity	87 dB
Voice Coil	2.5 inches
Xmax	0.55 inches
Magnet Type	Double Y35 Grade
Speaker Size	12 inches
Item Dimensions (D x W x H)	12.6"D x 12.6"W x 6.2"H
Item Weight	22.6 pounds
Mounting Type	Car Mount
Compatible Vehicle Types	ATV, Boat, Bus, Car, Motorcycle, Tractor, Truck, UTV

PACKAGE CONTENTS

The H YANKA BSF-12-2 Subwoofer package includes:

- 12 Inch Subwoofer
- 12 Inch Paper Cone Subwoofer Car Audio
- Black Steel Basket
- Dual Voice Coil 2 Ohm Impedance 12 subwoofer
- 1800W MAX Power 12 inch Competition Subwoofer

SETUP AND INSTALLATION

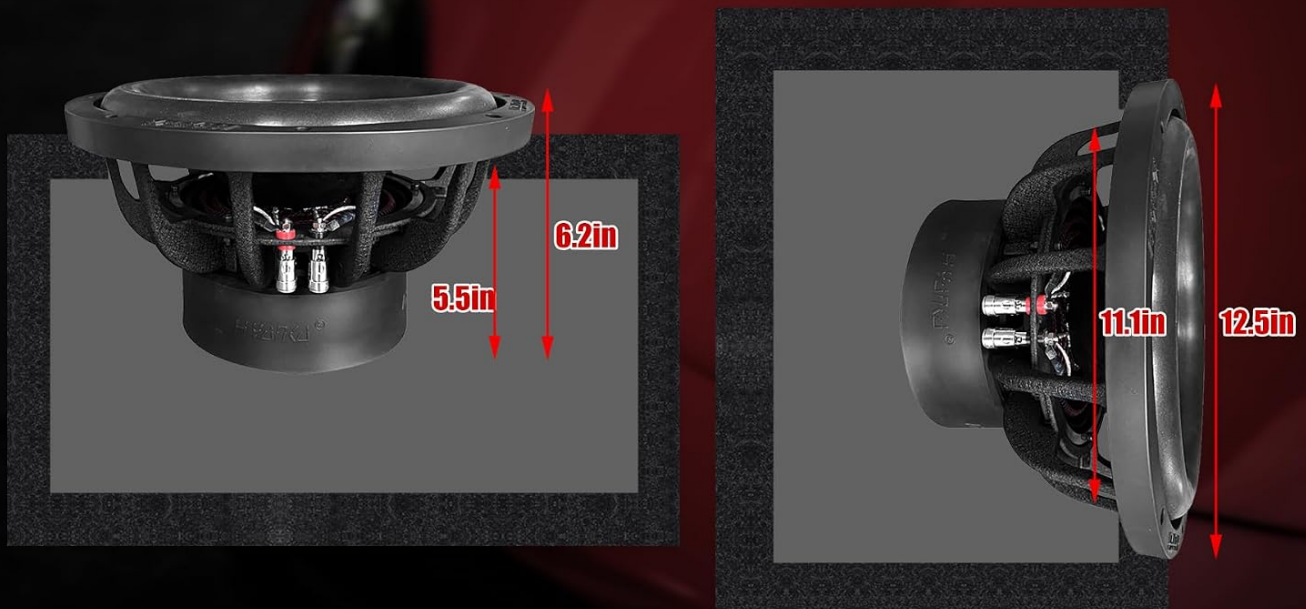
Proper installation is crucial for the performance and longevity of your subwoofer. It is recommended that installation be performed by a qualified professional if you are unfamiliar with car audio wiring.

Subwoofer Dimensions

Ensure the installation area has adequate depth and space. The subwoofer dimensions are approximately 12.6 inches (D) x 12.6 inches (W) x 6.2 inches (H).



SUBWOOFER SIZE & OPTIMAL RECOMMENDED WOODEN BOX SPECIFICATIONS



The BSF-12-2 car subwoofer can be mounted in a separate wooden enclosure. Ensure that the depth of the intended installation area is adequate and that the speaker is not obstructed once installed.

Optimal Recommended Wooden Box Specifications: Closed box with a recommended internal volume of 45 cubic decimeters, box cutoff frequency at 55Hz; open box with an internal volume of 55 cubic decimeters, F3 frequency at 45Hz.

Image: Subwoofer size and mounting depth. The diagram shows the subwoofer's overall diameter of 12.5 inches, mounting diameter of 11.1 inches, overall height of 6.2 inches, and mounting depth of 5.5 inches.



Design for Car, ATV, Van, High Performance Car Show Easy To Install



Image: Side view of the subwoofer highlighting its 6.2-inch overall height and 5.5-inch mounting depth for installation planning.

Optimal Wooden Box Specifications

The BSF-12-2 car subwoofer can be mounted in a separate wooden enclosure. Ensure that the depth of the intended installation area is adequate and that the speaker is not obstructed once installed. Recommended specifications for enclosures are:

- **Closed Box:** Recommended internal volume of 1.55 cubic feet (45 cubic decimeters), box cutoff frequency at 45Hz.
- **Open Box:** Internal volume of 2.71 cubic feet (55 cubic decimeters), F3 frequency at 38Hz.



Image: Diagrams showing recommended dimensions for single subwoofer enclosures, including open box (2.71 cubic feet, 38Hz cutoff) and closed box (1.55 cubic feet, 45Hz cutoff).

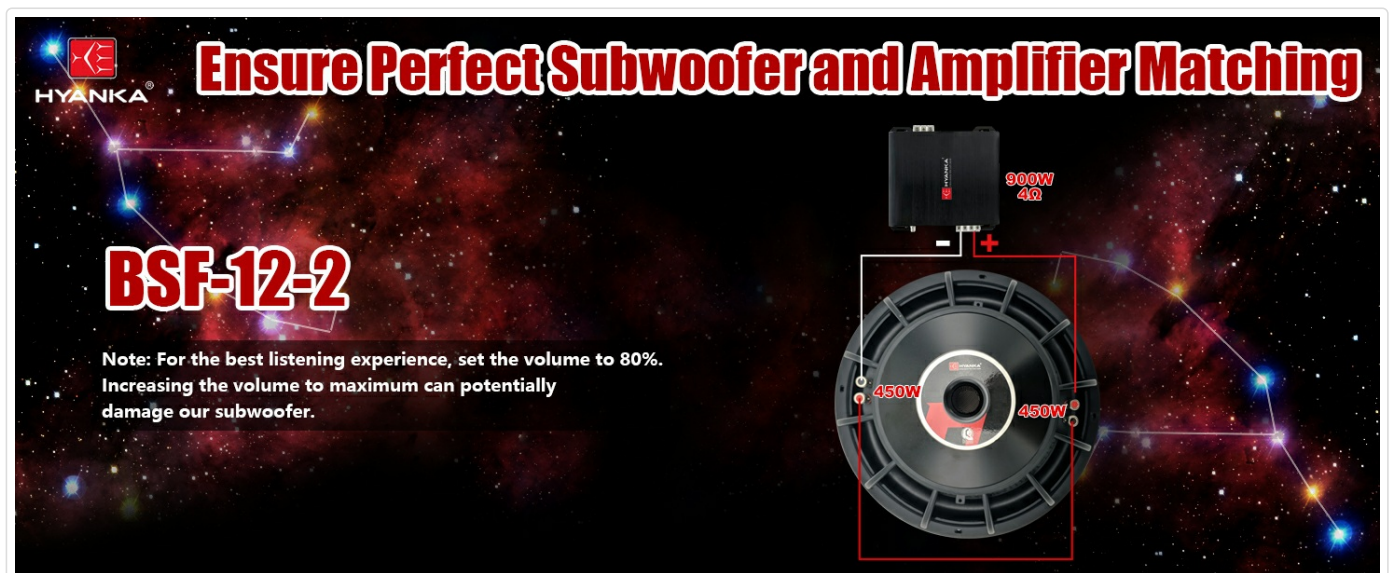


Image: Diagrams showing recommended dimensions for dual subwoofer enclosures, including open box (4.69 cubic feet, 32Hz cutoff) and closed box (3.03 cubic feet, 40Hz cutoff).

Subwoofer and Amplifier Matching

Proper matching between your subwoofer and amplifier is critical to prevent damage and ensure optimal sound performance. For best results, the subwoofer should operate at its rated power output. The ideal amplifier power should be **110%-120%** of the subwoofer's power rating, with the volume set to **80%-90%**.

If you are unsure about which subwoofer to choose or how to match it with an amplifier, please consult a car audio

specialist or contact H YANKA customer support for recommendations.



Image: Wiring diagram for BSF-12-2 (Dual 2 Ohm) with a CDP-1200D amplifier, showing connections for 765W at 2 Ohm. Note: For best listening experience, set the volume to 80%. Increasing the volume to maximum can potentially damage the subwoofer.



Image: Wiring diagram for BSF-12-2 (Single 1 Ohm) with a CDP-1200D amplifier, showing connections for 1200W at 1 Ohm. Note: For best listening experience, set the volume to 80%. Increasing the volume to maximum can potentially damage the subwoofer.



Image: Wiring diagram for BSF-12-2 (Single 4 Ohm) with an amplifier, showing connections for 900W at 4 Ohm. Note: For best listening experience, set the volume to 80%. Increasing the volume to maximum can potentially damage the subwoofer.

OPERATING INSTRUCTIONS

Once installed, follow these guidelines for optimal operation:

- Initial Power-Up:** After installation, turn on your car audio system at a low volume. Gradually increase the volume to ensure all connections are secure and the subwoofer is functioning correctly.
- Volume Control:** For the best listening experience and to prevent damage, operate the subwoofer with the amplifier volume set between 80% and 90% of its maximum output. Avoid operating at maximum volume for extended periods.
- Break-in Period:** Allow a break-in period of approximately 10-20 hours of normal use before operating the subwoofer at high volumes. This allows the suspension components to loosen and perform optimally.
- Crossover Settings:** Adjust your amplifier's low-pass filter (LPF) to send only low frequencies to the subwoofer. A typical setting is between 80Hz and 120Hz, but this can vary based on your vehicle and personal preference.
- Gain Adjustment:** Set the amplifier gain correctly to match the output voltage of your head unit. Incorrect gain settings can lead to distortion and potential damage.

MAINTENANCE

To ensure the longevity and performance of your H YANKA BSF-12-2 subwoofer, follow these maintenance tips:

- Regular Cleaning:** Gently wipe the subwoofer cone and surround with a soft, dry cloth to remove dust and debris. Avoid using harsh chemicals or excessive moisture.
- Inspect Connections:** Periodically check all wiring connections to ensure they are secure and free from corrosion. Loose connections can lead to poor performance or damage.
- Avoid Overpowering:** Do not continuously operate the subwoofer beyond its recommended RMS power rating. Overpowering can lead to voice coil damage.
- Protect from Elements:** While the subwoofer is robust, protect it from extreme temperatures, direct sunlight, and moisture, which can degrade materials over time.
- Secure Mounting:** Ensure the subwoofer enclosure remains securely mounted in your vehicle to prevent movement and potential damage during driving.

TROUBLESHOOTING

If you encounter issues with your H YANKA BSF-12-2 subwoofer, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No Sound from Subwoofer	- Loose or incorrect wiring connections. - Amplifier not powered on or in protect mode. - Head unit settings incorrect (e.g., subwoofer output off). - Blown fuse in amplifier or power wire.	- Check all power, ground, and signal wires. - Verify amplifier power and status indicator. - Check head unit audio settings. - Inspect and replace any blown fuses.

Distorted Sound	◦ Amplifier gain set too high. ◦ Overpowering the subwoofer. ◦ Incorrect crossover settings. ◦ Damaged subwoofer cone or voice coil.	◦ Reduce amplifier gain. ◦ Lower volume or check amplifier power rating. ◦ Adjust LPF on amplifier or head unit. ◦ Inspect subwoofer for physical damage.
Weak or Muffled Bass	◦ Incorrect phase setting. ◦ Subwoofer enclosure too small or leaky. ◦ Low-pass filter set too low.	◦ Check phase switch on amplifier (0 or 180 degrees). ◦ Ensure enclosure is sealed and correctly sized. ◦ Increase LPF frequency.

If the problem persists after trying these solutions, please contact H YANKA customer support.

PRODUCT VIDEOS

Watch this official product video for more insights into the H YANKA BSF-12-2 Subwoofer.

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Video: Unparalleled sound reproduction and astonishing bass excellence from the H YANKA subwoofer. This video highlights the audio quality and performance of the product.

WARRANTY INFORMATION

The H YANKA BSF-12-2 Subwoofer comes with a **1-year Warranty**. This warranty covers manufacturing defects and ensures the product meets quality standards. For warranty claims or detailed terms and conditions, please refer to the official H YANKA website or contact customer support.

Optional protection plans are available for extended coverage:

- 2-Year Protection Plan
- 3-Year Protection Plan
- Complete Protect (monthly renewal)

CUSTOMER SUPPORT

For further assistance, technical support, or inquiries regarding your H YANKA BSF-12-2 Subwoofer, please visit the official H YANKA store or contact their customer service department.

H YANKA Store: Visit [H YANKA Store on Amazon](#)

ASK A QUESTION ABOUT THIS MANUAL

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

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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