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Douk Audio LB020

Douk Audio Nobsound LB020 2.5-inch Full-Range Speaker User Manual

Model: LB020

1. Introduction

Thank you for choosing the Douk Audio Nobsound LB020 2.5-inch Full-Range Speaker. This speaker is designed to deliver high-quality audio performance for various applications, including computer audio setups and DIY audio projects. This manual provides essential information for proper setup, operation, maintenance, and troubleshooting to ensure optimal performance and longevity of your speaker.

2. Product Overview

2.1 Key Features

- **High-Quality Audio Performance:** Experience rich and detailed sound with a 2.5-inch, 8-ohm full-range driver, designed for high-fidelity audio enthusiasts. Effective frequency range of 150Hz-20KHz for balanced and clear sound.
- **High Sensitivity and Power Handling:** With 88dB sensitivity and a nominal power handling of 8W-15W, this speaker ensures strong and clear audio output, suitable for computer audio setups.
- **Compact and Versatile Design:** Standing at 45mm total height, this compact speaker is easy to integrate into various audio configurations. Its 67mm larger diameter and 61mm speaker hole provide a sleek appearance.
- **Easy Installation:** Designed for straightforward installation with a diagonal screw distance of 73mm and an angular O distance of 52mm, ensuring compatibility with various audio devices.

2.2 Package Contents

- 1 x Douk Audio Nobsound LB020 2.5-inch Full-Range Speaker Unit



Figure 1: Front view of the Douk Audio Nobsound LB020 speaker, showcasing its black frame and copper-colored cone.

3. Setup

The Douk Audio Nobsound LB020 is a passive speaker and requires an external amplifier to function. Follow these steps for proper installation:

1. **Speaker Placement:** Choose a suitable location for your speaker. For optimal sound, ensure it is placed on a stable surface and not obstructed. Consider the acoustics of your room for the best listening experience.
2. **Prepare Speaker Wires:** Use appropriate gauge speaker wire (not included) for your setup. Strip a small amount of insulation (approximately 1/2 inch or 1.2 cm) from both ends of the speaker wire to expose the bare copper strands.
3. **Connect to Speaker Terminals:** The LB020 speaker has two push-type terminals on its rear. Connect one end of the speaker wire to these terminals. Ensure correct polarity: typically, the red terminal is positive (+) and the black

terminal is negative (-). Match these to your amplifier's output terminals.

4. **Connect to Amplifier:** Connect the other end of the speaker wire to the corresponding speaker output terminals on your amplifier. Again, ensure correct polarity (+ to + and - to -) to avoid phase issues that can degrade sound quality.
5. **Secure Mounting (Optional):** If you are integrating this speaker into an enclosure or a custom setup, use the four mounting holes on the speaker frame. Ensure screws are tightened securely but do not overtighten to avoid damaging the frame.



Figure 2: Rear view of the LB020 speaker, highlighting the push-type terminals for speaker wire connection.

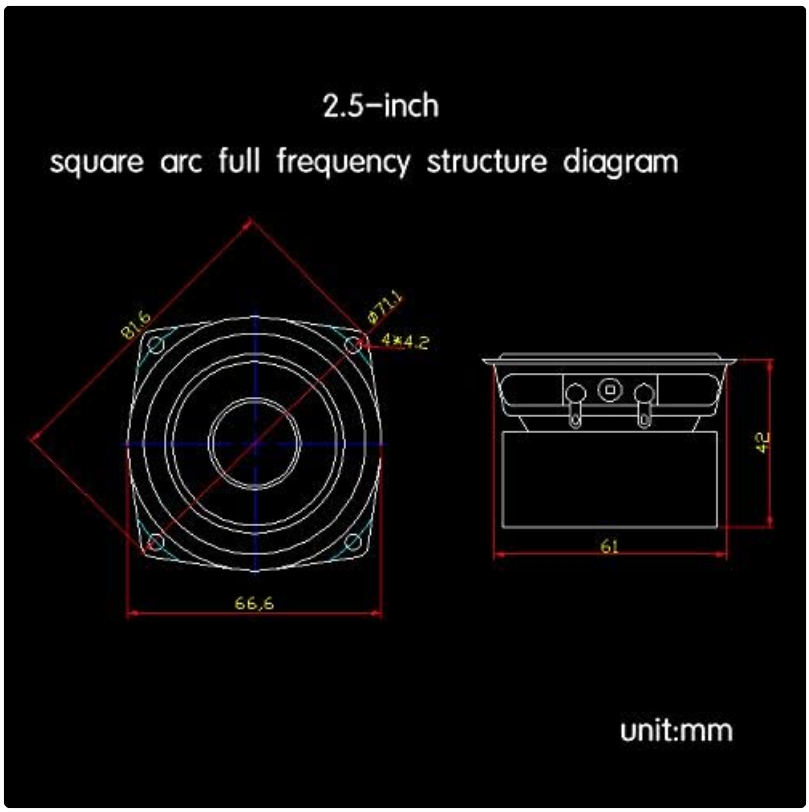


Figure 3: Dimensional diagram of the 2.5-inch speaker, showing key measurements for mounting and integration.

4. Operating Instructions

Once the speaker is correctly connected to an amplifier, its operation is straightforward:

1. **Power On Amplifier:** Turn on your audio amplifier.
2. **Select Source:** Select the desired audio source on your amplifier (e.g., PC, CD player, streaming device).
3. **Adjust Volume:** Gradually increase the volume on your amplifier to a comfortable listening level. Avoid setting the volume too high, which can cause distortion or damage to the speaker and amplifier.
4. **Enjoy Audio:** Your Douk Audio Nobsound LB020 speaker is now ready to reproduce sound.

5. Maintenance

To ensure the longevity and optimal performance of your speaker, follow these simple maintenance guidelines:

- **Cleaning:** Gently wipe the speaker cone and frame with a soft, dry, lint-free cloth. Do not use liquid cleaners, solvents, or abrasive materials, as these can damage the speaker components.
- **Environment:** Keep the speaker in a dry environment, away from direct sunlight, extreme temperatures, and high humidity. Avoid exposing it to dust or excessive vibrations.
- **Handling:** Avoid touching the speaker cone directly, as this can cause damage. Handle the speaker by its frame.
- **Connections:** Periodically check speaker wire connections to ensure they are secure and free from corrosion.

6. Troubleshooting

If you encounter issues with your speaker, refer to the following troubleshooting tips:

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
No sound from speaker	Speaker wires not connected properly. Amplifier is off or input source not selected. Volume on amplifier is too low. Faulty amplifier or audio source.	Check all speaker wire connections at both the speaker and amplifier. Ensure correct polarity. Verify amplifier is powered on and the correct input source is selected. Increase amplifier volume gradually. Test with a different amplifier or audio source if possible.
Distorted or unclear sound	Volume too high, causing amplifier clipping. Loose speaker wire connections. Incorrect polarity. Damaged speaker cone or voice coil.	Reduce amplifier volume. Check and secure all speaker wire connections. Verify speaker wire polarity (+ to + and - to -). Inspect the speaker cone for visible damage. If damaged, replacement may be necessary.
One speaker not working (in a stereo pair)	Connection issue for that specific speaker. Amplifier channel failure.	Check connections for the non-working speaker. Swap the speakers' connections on the amplifier to determine if the issue is with the speaker or the amplifier channel.

7. Specifications

Feature	Specification
Brand	Douk Audio
Model	LB020
Speaker Type	Full-Range
Speaker Size	2.5 Inches (6.35 cm)
Impedance	8 Ohms
Max Output Power	15 Watts
Nominal Power Handling	8W - 15W
Sensitivity	88dB
Frequency Response	150Hz - 20KHz
Connectivity Technology	Raw Wire
Material	Metallic (housing)
Total Height	45 mm

Feature	Specification
Larger Diameter	67 mm
Speaker Hole Diameter	61 mm
Diagonal Screw Distance	73 mm
Angular O Distance	52 mm
Dimensions (D x W x H)	6.7 x 6.7 x 4.5 cm

8. Warranty and Support

This Douk Audio Nobsound LB020 speaker comes with a**Limited Warranty**. Please refer to the terms and conditions provided at the time of purchase or contact your retailer for specific warranty details.

For technical support, troubleshooting assistance beyond this manual, or warranty claims, please contact the seller or Douk Audio customer service through their official channels. Keep your purchase receipt or proof of purchase handy when contacting support.

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