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Nobsound DJ525

Nobsound HiFi Bluetooth 5.0 Tube Power Amplifier User Manual

Model: DJ525

1. Introduction

Thank you for choosing the Nobsound HiFi Bluetooth 5.0 Tube Power Amplifier. This integrated audio amplifier combines the warm, rich sound of vacuum tubes with modern digital and analog input options, including Bluetooth 5.0, USB, Coaxial, Optical, and RCA. It is designed to deliver high-fidelity audio for your home entertainment system, capable of driving passive speakers and connecting to an active subwoofer for enhanced bass. Please read this manual thoroughly before operation to ensure proper use and longevity of your device.

2. Important Safety Instructions

- **Power Source:** Ensure the amplifier is connected to a power outlet with the correct voltage (AC 110-120V or 220-240V) as indicated on the unit. Use the provided power cord.
- **Ventilation:** Do not block any ventilation openings. Allow adequate space around the amplifier for proper airflow to prevent overheating.
- **Water and Moisture:** Do not expose the amplifier to rain, moisture, dripping, or splashing. Do not place objects filled with liquids, such as vases, on the apparatus.
- **Heat Sources:** Keep the amplifier away from heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- **Cleaning:** Unplug the amplifier from the wall outlet before cleaning. Use only a dry cloth for cleaning.
- **Servicing:** Do not attempt to service this product yourself. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- **Tubes:** The vacuum tubes can become very hot during operation. Avoid touching them directly. Allow sufficient time for them to cool down before handling.

3. Package Contents

Please check the package carefully to ensure all items are present and in good condition:

- 1x Nobsound Tube Amplifier (Model DJ525)
- 1x Power Cord
- 1x Remote Control (batteries not included)



Figure 3.1: Contents of the Nobsound Tube Amplifier package, including the amplifier unit, power cable, and remote control.

4. Product Overview

4.1 Front Panel



Figure 4.1: Front panel controls and indicators of the Nobsound amplifier.

- **Power Button:** Toggles the amplifier on and off.
- **U-disk Input:** USB port for connecting a USB flash drive for audio playback.
- **Play/Pause Button:** Controls playback for USB audio.
- **Input Select Button:** Cycles through available audio inputs (Bluetooth, USB, Coaxial, Optical, RCA).
- **Next Song Button:** Skips to the next track during USB playback.
- **Bass Knob:** Adjusts the low-frequency output.
- **Treble Knob:** Adjusts the high-frequency output.
- **Volume Knob:** Controls the overall output volume.
- **VU Meters:** Visual indicators of audio signal levels. Note: VU meters will primarily work with large dynamic music and significant bass effects.

4.2 Rear Panel



Figure 4.2: Rear panel connections and features of the Nobsound amplifier.

- **Bluetooth Antenna:** For wireless Bluetooth audio reception.
- **Optical Input:** Digital audio input for devices with optical output.
- **Coaxial Input:** Digital audio input for devices with coaxial output.
- **RCA Inputs (CD/DVD):** Two sets of analog RCA inputs for various audio sources.
- **Subwoofer Output:** RCA output for connecting an active subwoofer to create a 2.1 channel system.
- **Speaker Output Terminals:** Connect passive speakers (4-16Ω impedance).
- **AC Input:** Power input for the included power cord.
- **Voltage Selector Switch:** Selects between 110V and 220V AC input voltage. Ensure this is set correctly for your region before powering on.
- **Radiating Fan:** Internal cooling fan to maintain optimal operating temperature.

5. Setup

5.1 Initial Preparation

1. Unpack the amplifier and all accessories.
2. Place the amplifier on a stable, flat surface with adequate ventilation.
3. Ensure the voltage selector switch on the rear panel is set to the correct voltage for your region (110V or 220V).

5.2 Connecting Speakers

Connect your passive speakers to the speaker output terminals on the rear panel. Ensure correct polarity (+ to + and - to -) for each speaker. The amplifier supports speakers with an impedance of 4-16Ω.

5.3 Connecting Audio Sources

The amplifier offers multiple input options:

- **RCA Inputs:** Connect analog audio devices (e.g., CD player, DVD player, turntable with a phono preamp) to the RCA input jacks (CD or DVD).
- **Coaxial Input:** Connect digital audio devices (e.g., TV, game console) using a coaxial cable.
- **Optical Input:** Connect digital audio devices (e.g., TV, streaming box) using an optical (Toslink) cable.
- **USB Input:** Insert a USB flash drive containing MP3/WAV/APE/FLAC/WMA audio files into the U-disk input on the front panel.
- **Bluetooth:** For wireless connection from Bluetooth-enabled devices (e.g., smartphone, tablet, computer).



Figure 5.1: Various audio input options and supported formats for the amplifier.

5.4 Connecting an Active Subwoofer (Optional)

To enhance bass, connect an active subwoofer to the dedicated low-frequency output (RCA) on the rear panel. This creates a 2.1 channel audio system.



Figure 5.2: Setup for a 2.1 channel audio system with an active subwoofer.

5.5 Power Connection

Once all audio connections are made, connect the provided power cord to the AC input on the rear panel of the amplifier and then to a suitable wall outlet.

6. Operating Instructions

6.1 Power On/Off

Press the **Power** button on the front panel to turn the amplifier on or off. The display will illuminate when the unit is powered on.

6.2 Input Selection

Press the **Input Select** button on the front panel or the corresponding input button on the remote control to cycle through the available audio sources: Bluetooth, USB, Coaxial, Optical, RCA (CD), RCA (DVD).

6.3 Volume Control

Rotate the **Volume** knob on the front panel clockwise to increase volume and counter-clockwise to decrease it. You can also use the volume buttons on the remote control.

6.4 Tone Controls

Use the **Bass** and **Treble** knobs on the front panel to adjust the low and high frequencies according to your preference. Rotate clockwise to boost and counter-clockwise to cut.

6.5 USB Playback

Insert a USB flash drive into the U-disk input. The amplifier will automatically switch to USB input. Use the **Play/Pause** and **Next Song** buttons on the front panel or remote control to manage playback.

6.6 Bluetooth Pairing

1. Select the Bluetooth input on the amplifier. The display will show 'BT'.
2. On your Bluetooth-enabled device (e.g., smartphone), search for available Bluetooth devices.
3. Select 'Nobsound' or a similar name from the list to pair.
4. Once paired, you can stream audio wirelessly to the amplifier.

6.7 Remote Control Usage

The included remote control provides convenient access to power, input selection, volume, and USB playback controls. Ensure batteries are inserted correctly (not included).



Figure 6.1: Nobsound amplifier with its remote control for convenient operation.

7. Maintenance

- **Cleaning:** Use a soft, dry cloth to wipe the exterior of the amplifier. Do not use liquid cleaners or aerosols.
- **Ventilation:** Regularly check that the ventilation openings are clear of dust and debris to ensure proper cooling.
- **Tube Care:** The vacuum tubes have a finite lifespan. While designed for durability, avoid excessive vibration or impact. If a tube fails or sound quality degrades significantly over time, consult qualified personnel for replacement.
- **Storage:** If storing the amplifier for an extended period, disconnect it from power and store it in a cool, dry place away from direct sunlight and extreme temperatures.

8. Troubleshooting

If you encounter any issues with your amplifier, please refer to the following table for common problems and solutions:

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
No sound output	• Power off/unplugged • Incorrect input selected • Volume too low • Speaker cables loose/incorrectly connected • Source device not playing/muted	• Ensure power is on and unit is plugged in. • Select the correct input source. • Increase volume. • Check all speaker cable connections for proper polarity and secure fit. • Verify source device is playing and not muted.
Distorted sound	• Volume too high (clipping) • Poor quality audio source • Speaker impedance mismatch • Damaged cables	• Reduce volume. • Try a different audio source. • Ensure speakers are within 4-16Ω impedance range. • Check and replace any damaged audio cables.
Bluetooth connection issues	• Not in pairing mode • Device too far • Interference • Already connected to another device	• Ensure amplifier is on Bluetooth input. • Move device closer to amplifier. • Reduce other wireless interference. • Disconnect from other Bluetooth devices and try pairing again.
VU meters not working/moving	• Playing low dynamic music • Low bass content	• The VU meters are designed to respond primarily to large dynamic music and significant bass effects. This is normal operation.
USB playback not working	• Unsupported file format • USB drive not formatted correctly • USB drive capacity too large	• Ensure files are MP3/WAV/APE/FLAC/WMA. • Format USB drive to FAT32. • Ensure USB drive is 128GB or less.

9. Specifications

Parameter	Value
Audio Input	Bluetooth / 2 groups of RCA / USB (U-disk) / Coaxial / Optical
Audio Output	Speaker Jack / Low Frequency Output (for active subwoofer)
U-disk Supported Sampling Rate	16Bit/48KHz
U-disk Supported Formats	MP3/WAV/APE/FLAC/WMA
U-disk Max Storage Capacity	128G
Bluetooth Version	5.0
Output Impedance	4-16Ω
Rated Output Power	100W+100W @4Ω, 70W+70W @8Ω
Frequency Response	20HZ-20KHZ (±2dB)
Power Consumption	300W
Input Impedance	47KΩ
Input Sensitivity	800mV
Treble and Bass Range	±9dB
Signal to Noise Ratio (SNR)	≥88dB
Separation	≥80dB
Total Harmonic Distortion (THD)	0.1% (1KHz)
Dimensions (W*D*H)	330*315*160mm / 12.99*12.44*6.30in
Net Weight	7.16kg / 15.79lb

10. Warranty and Support

Nobsound products are designed for reliability and performance. For warranty information and technical support, please refer to the documentation provided with your purchase or visit the official Nobsound website. If you experience any issues that cannot be resolved using the troubleshooting guide, please contact Nobsound customer service for assistance. Please have your model number (DJ525) and purchase details ready when contacting support.

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