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Nobsound NS-02D EL34-B

Nobsound NS-02D EL34-B Hi-Fi Stereo Tube Amplifier User Manual

1. INTRODUCTION

This manual provides essential information for the safe and effective operation of your Nobsound NS-02D EL34-B Hi-Fi Stereo Tube Amplifier. This Class A, single-ended amplifier is designed to deliver high-fidelity audio with a warm, rich sound signature characteristic of EL34 vacuum tubes. Please read this manual thoroughly before initial use and retain it for future reference.



Image 1.1: Angled front view of the Nobsound NS-02D EL34-B Hi-Fi Stereo Tube Amplifier, showcasing its vacuum tubes and brushed metal finish.

2. SAFETY INFORMATION

To prevent fire, electric shock, or product damage, observe the following safety precautions:

- **High Voltage:** This amplifier operates with high internal voltages. Do not open the casing or attempt to service the unit yourself. Refer all servicing to qualified personnel.
- **Heat:** Vacuum tubes generate significant heat during operation. Ensure adequate ventilation around the amplifier. Do not place it in an enclosed space or cover ventilation openings. Avoid touching the tubes during or immediately after operation.
- **Moisture:** Do not expose the amplifier to rain, moisture, or excessive humidity. Keep liquids away from the unit.
- **Power Source:** Connect the amplifier only to a power supply of the specified voltage (240V 50Hz, as indicated on the rear panel).
- **Speaker Connections:** Ensure all speaker connections are secure and correct before powering on the amplifier. Incorrect connections can damage the amplifier or speakers.
- **Placement:** Place the amplifier on a stable, level surface away from direct sunlight, heat sources, and strong magnetic fields.

3. SETUP

3.1 Unpacking and Inspection

Carefully remove the amplifier from its packaging. Inspect the unit for any signs of damage during transit. If damage is found, contact your retailer immediately.

3.2 Tube Installation (If Required)

The vacuum tubes may be pre-installed or require installation upon arrival. If installation is needed, carefully insert each tube into its corresponding socket, aligning the pins with the socket holes. Apply gentle, even pressure until the tube is seated firmly. Refer to the markings on the amplifier chassis for correct tube placement (e.g., 5Z3P, 6N9P, EL34B).



Image 3.1: Top-down view illustrating the layout of the vacuum tubes and transformers on the amplifier chassis.

3.3 Audio Input Connection

Connect your audio source (e.g., CD player, DAC, preamplifier) to the 'AUX IN' RCA jacks on the rear panel of the amplifier using high-quality RCA cables.

3.4 Speaker Connections

Connect your speakers to the appropriate speaker terminals on the rear panel. The amplifier provides terminals for both 4 Ohm and 8 Ohm speakers. Ensure you connect the positive (+) terminal of your speaker to the corresponding positive terminal on the amplifier, and the negative (-) terminal to the common ground (0) terminal. Use high-quality speaker cables.



Image 3.2: Rear panel of the amplifier, detailing the 'AUX IN' RCA jacks, speaker output terminals (4Ω, 8Ω, and common ground), and power input.



Image 3.3: Close-up view of the gold-plated speaker binding posts, showing the 4Ω, 8Ω, and common ground (0) markings for proper speaker connection.

3.5 Power Connection

After all audio and speaker connections are made, connect the supplied power cord to the amplifier's power inlet and then to a suitable wall outlet.

4. OPERATING INSTRUCTIONS

4.1 Powering On

Ensure the volume knob is set to its minimum position. Flip the 'ON/OFF' toggle switch on the front panel to the 'ON' position. The tubes will begin to glow, indicating the amplifier is warming up. Allow approximately 30-60 seconds for the tubes to stabilize before increasing the volume.

4.2 Volume Control

Slowly rotate the 'VOLUME' knob clockwise to increase the audio output. Adjust to a comfortable listening level. Avoid setting the volume to maximum for extended periods, especially with highly sensitive speakers, to prevent distortion or damage.



Image 4.1: Close-up of the front panel volume knob, indicating its minimum and maximum settings.

4.3 Powering Off

Before powering off, reduce the volume to minimum. Then, flip the 'ON/OFF' toggle switch to the 'OFF' position. Disconnect the power cord from the wall outlet if the amplifier will not be used for an extended period.

5. MAINTENANCE

5.1 Cleaning

Dust the amplifier regularly with a soft, dry cloth. For stubborn marks, use a slightly damp cloth and then dry thoroughly. Do not use harsh chemicals or abrasive cleaners.

5.2 Ventilation

Ensure the amplifier has ample space for airflow. Do not block the ventilation holes. Proper ventilation is crucial for tube longevity and stable operation.

5.3 Tube Replacement

Vacuum tubes have a finite lifespan. Over time, their performance may degrade. If you notice a significant change in sound quality or if a tube fails, it may need replacement. Consult a qualified technician for tube

replacement to ensure proper biasing and safety. Always replace tubes with compatible types (5Z3P, 6N9P, EL34B).

6. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
No sound output	<ul style="list-style-type: none">• Power not connected or switched on• Volume set to minimum• Incorrect audio source connection• Faulty speaker cables or connections• Damaged tubes	<ul style="list-style-type: none">• Check power cord and switch• Increase volume• Verify RCA cable connections• Inspect speaker cables and terminals• Consult technician for tube inspection
Distorted or weak sound	<ul style="list-style-type: none">• Incorrect speaker impedance match• Damaged tubes• Poor quality audio source• Overdriving the amplifier	<ul style="list-style-type: none">• Ensure speakers match 4Ω or 8Ω terminals• Consult technician for tube inspection/replacement• Test with a different audio source• Reduce volume level
Humming or buzzing noise	<ul style="list-style-type: none">• Ground loop issue• Interference from other electronics• Loose tube connection• Faulty power supply or transformer	<ul style="list-style-type: none">• Try plugging into a different outlet or using a ground loop isolator• Move amplifier away from other electronic devices• Gently reseal tubes (when amplifier is off and cool)• Consult technician
Tubes not glowing	<ul style="list-style-type: none">• No power• Faulty tube	<ul style="list-style-type: none">• Check power connection and switch• Consult technician for tube replacement

If the problem persists after attempting these solutions, please contact Nobsound customer support or a qualified audio technician.

7. SPECIFICATIONS

- **Model:** NS-02D EL34-B
- **Output Power:** Triode 8 W x 2 (default) / Standard Connection 12 W x 2
- **Output Impedance:** 4 Ω, 8 Ω
- **Compatible Speakers:** 10-100 W, 88 dB (or higher sensitivity)




- **Rectifier Tube:** 5Z3P (J-class military tube)
- **Preamplifier Tubes:** 6N9P × 2 (J-class military tube)
- **Power Tubes:** EL34B × 2
- **Channels:** 2.0 Stereo
- **Dimensions (W x H x D):** 380 x 160 x 230 mm (approximately)
- **Weight:** Approximately 9 kg
- **Material:** Tubes, Electronic Components, Metal Chassis, Wood Side Panels
- **Compliance:** CE

8. WARRANTY AND SUPPORT

Nobsound products are designed for reliability and performance. For warranty information, please refer to the documentation provided at the time of purchase or contact your retailer. For technical support or service inquiries, please reach out to Nobsound customer service through their official channels.

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Related Documents - NS-02D EL34-B

	<p>Nobsound NS-08E & NS-10P: Vacuum Tube Headphone Amplifier & Preamp User Guide</p> <p>Detailed guide for Nobsound NS-08E vacuum tube headphone amplifier and NS-10P tube preamp, covering features, operation, specifications, and troubleshooting. Supports various tube replacements and HiFi audio.</p>
	<p>Nobsound NS-13G/NS-15G/NS-15G PRO Digital Amplifier User Manual and Specifications</p> <p>Detailed user manual and technical specifications for Nobsound NS-13G, NS-15G, and NS-15G PRO digital HiFi stereo audio amplifiers. Includes setup, operation, troubleshooting tips, and contact information.</p>
	<p>Nobsound G2 and G2 PRO Amplifier Manual</p> <p>User manual for Nobsound G2 and G2 PRO Hi-Fi audio amplifiers, detailing front and back panel connections and features.</p>



[Nobsound NS-01G PRO, NS-10G, NS-10G PRO, NS-20G Mini Bluetooth Amplifier User Manual](#)
Comprehensive user manual for Nobsound NS-01G PRO, NS-10G, NS-10G PRO, and NS-20G mini Bluetooth digital amplifiers. Learn about features, setup, operation, troubleshooting, and specifications.



[Nobsound NS-03G 100W Mono Channel Amplifier: User Guide and Specifications](#)
Comprehensive guide for the Nobsound NS-03G 100W Mono Channel Subwoofer and Full Frequency Power Amplifier, including setup instructions, technical parameters, and troubleshooting tips.



[Nobsound B100 Class A Hi-Fi Speaker Operating Instructions](#)
Operating instructions for the Nobsound B100 Class A Hi-Fi Speaker, covering safety warnings, system connection, and parameter descriptions.