

Nobsound EL34

Nobsound EL34 HiFi Stereo Tube Amplifier User Manual

Model: EL34 / NS-03D

1. INTRODUCTION

Thank you for choosing the Nobsound EL34 HiFi Stereo Tube Amplifier. This amplifier is designed to deliver exceptional audio quality with its single-ended Class A vacuum tube design. This manual provides essential information for the safe and efficient setup, operation, and maintenance of your amplifier. Please read this manual thoroughly before using the product.

2. SAFETY INSTRUCTIONS

- **Power Supply:** Ensure the amplifier is connected to a power outlet with the correct voltage (110-120V or 220-240V, 50-60Hz) as specified on the unit.
- **Ventilation:** Place the amplifier in a well-ventilated area. Do not block ventilation openings. Maintain adequate space around the unit for heat dissipation.
- **Heat:** Vacuum tubes generate significant heat. Avoid touching the tubes during operation or immediately after powering off. Keep flammable materials away from the amplifier.
- **Moisture:** Do not expose the amplifier to water, moisture, or excessive humidity. Do not operate with wet hands.
- **Foreign Objects:** Do not insert any objects into the amplifier's openings.
- **Servicing:** Do not attempt to service the amplifier yourself. Refer all servicing to qualified personnel. High voltages are present inside the unit.
- **Placement:** Place the amplifier on a stable, level surface. Avoid placing it near strong magnetic fields or other heat sources.
- **Power Cord:** Protect the power cord from being walked on or pinched. Unplug the unit during lightning storms or when unused for long periods.

3. PACKAGE CONTENTS

Carefully unpack your Nobsound EL34 amplifier and check for the following items:

- 1x Nobsound EL34 Amplifier Unit
- 2x EL34B Vacuum Tubes

- 2x 6H8C Vacuum Tubes
- 1x 5Z4P Vacuum Tube
- 1x Power Cord

PACKING LIST

1x Amplifier
2x EL34B Tubes
2x 6H8C Tubes
1x 5Z4P Tube
1x Power Cord



Image: The Nobsound EL34 amplifier unit, displaying its dimensions and a clear list of included accessories: 1x Amplifier, 2x EL34B Tubes, 2x 6H8C Tubes, 1x 5Z4P Tube, and 1x Power Cord.

4. SETUP

4.1. Tube Installation

The vacuum tubes are typically packaged separately to prevent damage during shipping. Install them carefully into their designated sockets on the amplifier. Ensure the pins align correctly with the socket holes and gently push down until the tube is seated firmly.

1. Identify the tube types: 2x EL34B, 2x 6H8C, and 1x 5Z4P.
2. Locate the corresponding sockets on the amplifier chassis. The sockets are usually labeled or arranged in a specific pattern. Refer to the image below for guidance.
3. Align the pins of each tube with the holes in its respective socket. For tubes with a keying pin (a thicker pin or a gap), ensure it aligns with the notch in the socket.
4. Gently push the tube straight down into the socket until it is fully seated. Do not force it.

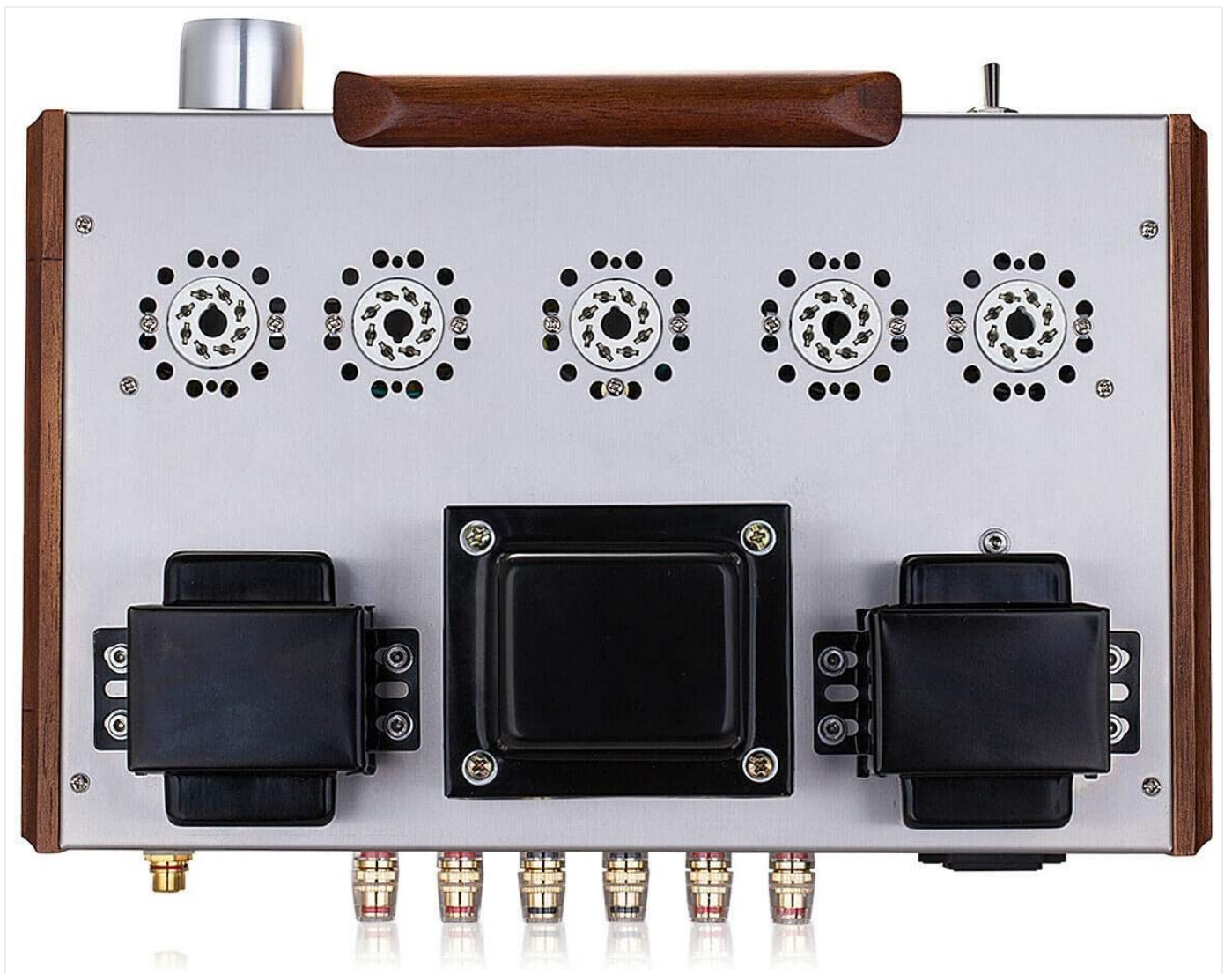


Image: Top view of the Nobsound EL34 amplifier chassis, clearly showing the arrangement of the five tube sockets where the vacuum tubes are to be installed.

6H8C*2+EL34*2+5Z4P*1



Image: A close-up view of the individual vacuum tubes included with the amplifier: two 6H8C tubes, two EL34B tubes, and one 5Z4P tube, essential for proper operation.

4.2. Connecting Speakers

Connect your speakers to the appropriate output terminals on the rear panel of the amplifier. Ensure you match the speaker impedance (4Ω or 8Ω) to the corresponding terminals on the amplifier for optimal performance and to prevent damage.

- Identify the positive (+) and negative (-) terminals on your speakers and the amplifier.
- Connect the positive terminal of your left speaker to the left channel's positive terminal on the amplifier.
- Connect the negative terminal of your left speaker to the left channel's negative terminal on the amplifier.
- Repeat for the right speaker.
- Ensure all connections are secure to prevent signal loss or short circuits.

4.3. Connecting Audio Source

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

- Connect the left channel output of your audio source to the 'L' (left) input jack on the amplifier.
- Connect the right channel output of your audio source to the 'R' (right) input jack on the amplifier.

4.4. Power Connection

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



Image: Rear panel of the Nobsound EL34 amplifier, illustrating the RCA input jacks, speaker output terminals (4Ω and 8Ω options), and the power inlet with a 5A fuse holder.

5. OPERATING INSTRUCTIONS

5.1. Powering On/Off

1. **Power On:** Ensure all connections are secure and the volume knob is set to minimum. Flip the power switch to the 'ON' position. The tubes will begin to glow, indicating the amplifier is warming up. Allow a few minutes for the tubes to reach optimal operating temperature before increasing the volume.
2. **Power Off:** Turn the volume knob to minimum, then flip the power switch to the 'OFF' position.

5.2. Volume Control

The large knob on the front panel controls the master volume. Rotate clockwise to increase volume and counter-clockwise to decrease it. Always start with the volume at its lowest setting before playing audio to avoid sudden loud sounds.

5.3. Sound Characteristics

The Nobsound EL34 amplifier is known for its warm, rich, and detailed sound signature characteristic of tube amplifiers. It delivers firm and full mids, smooth highs, and deep bass. This amplifier is particularly well-suited for genres such as vocals, strings, pipes, and jazz, providing a natural and soft presentation.

6. MAINTENANCE

6.1. Cleaning

- Always power off and unplug the amplifier before cleaning.

- Use a soft, dry cloth to wipe the exterior surfaces.
- For stubborn marks, a slightly damp cloth can be used, followed immediately by a dry cloth.
- Do not use harsh chemicals, abrasive cleaners, or solvents, as these can damage the finish.
- Use a soft brush or compressed air to gently remove dust from around the tubes and ventilation openings.

6.2. Tube Care and Replacement

- Vacuum tubes have a finite lifespan and may need replacement over time. Signs of aging tubes include reduced sound quality, increased noise, or uneven channel output.
- When replacing tubes, ensure the amplifier is powered off and unplugged, and allow the tubes to cool completely.
- Gently grasp the tube and pull it straight up from its socket. Avoid twisting.
- Insert new, compatible tubes following the installation steps in Section 4.1. It is recommended to replace tubes with matched sets for optimal performance.

7. TROUBLESHOOTING

If you experience issues with your amplifier, please consult the following troubleshooting guide before seeking professional service.

Problem	Possible Cause	Solution
No power / Unit does not turn on	Power cord not connected; Wall outlet not active; Blown fuse.	Ensure power cord is securely connected. Test wall outlet with another device. Check and replace the fuse (5A) if blown.
No sound / Low volume	Incorrect input/output connections; Volume knob at minimum; Faulty audio source; Damaged speaker cables; Tubes not seated correctly or faulty.	Verify all audio input and speaker output connections. Increase volume. Test with a different audio source. Check speaker cables for damage. Re-seat tubes or try replacing them.
Distorted sound / Hum or noise	Loose connections; Interference from other electronics; Ground loop issue; Aging or faulty tubes.	Check all cables for secure connections. Move amplifier away from other electronic devices. Try a ground loop isolator. Consider replacing tubes.
One channel silent or weaker	Loose speaker or input cable; Faulty tube in one channel; Imbalance in audio source.	Check and re-secure all cables for the affected channel. Swap tubes between channels to identify a faulty tube. Test with a different audio source.

8. SPECIFICATIONS

Parameter	Value
Output Power	8 W × 2 (Ultra-linear connection)
Tubes	5Z4P x1 / 6H8C x2 / PSVANE EL34B x2
Frequency Response	20 Hz - 25 KHz

Parameter	Value
Output Impedance	4Ω, 8Ω
Distortion	≤ 1 % (1 kHz)
Input Impedance	100 KΩ
Input Sensitivity	500 mV - 2000 mV
Signal-to-Noise Ratio (SNR)	90 dB
Input Power	110-120 V / 220-240 V / 50-60 Hz
Transformer Power	150 W
Dimensions (L x D x H)	352 x 216 x 55 mm
Weight	12 kg
Number of Channels	2
Mounting Type	Freestanding
Compliant Specifications	CE

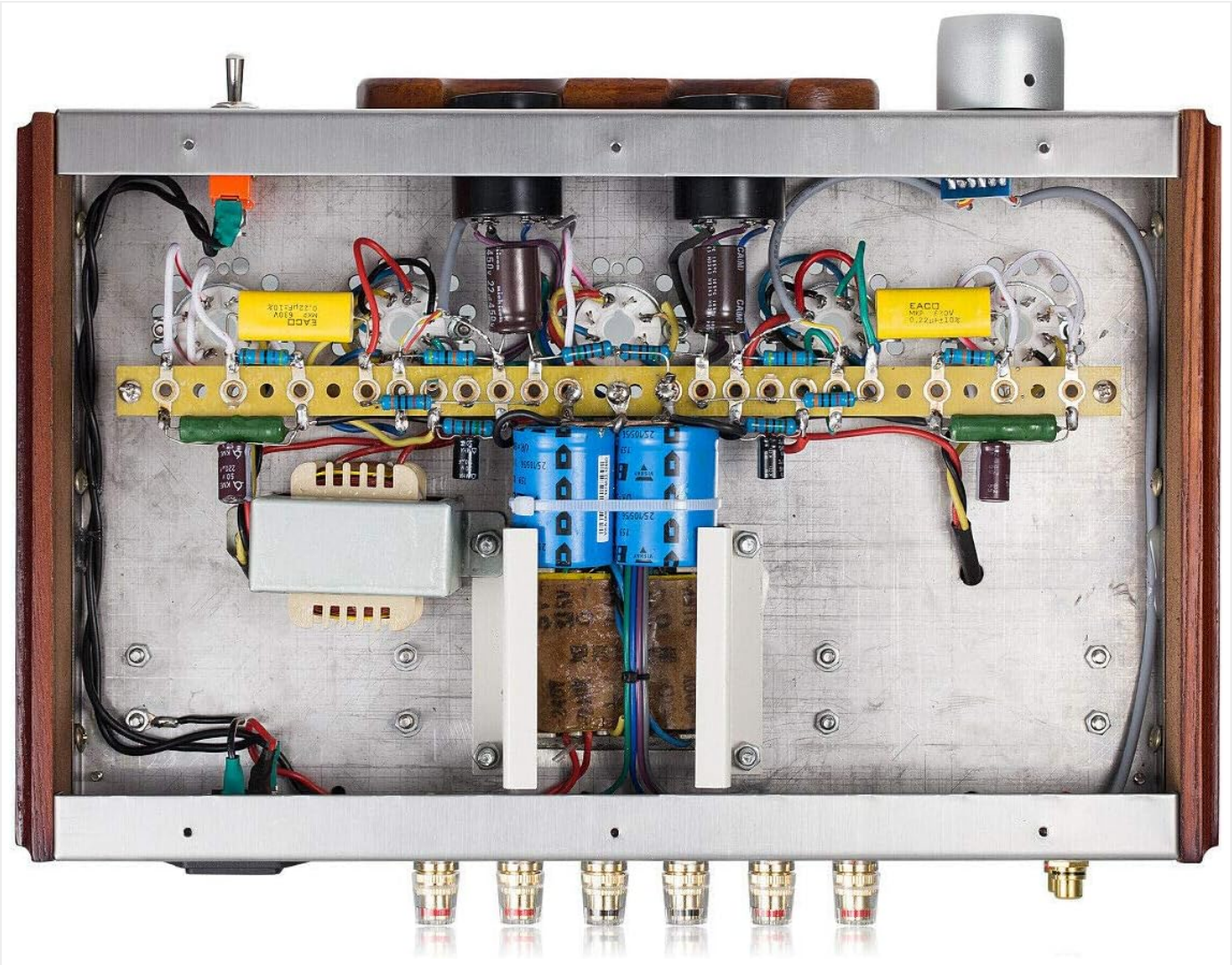


Image: An internal view of the Nobsound EL34 amplifier, showcasing its hand-wired components and robust construction.

9. WARRANTY AND SUPPORT

Specific warranty information for this product was not provided at the time of manual creation. For details regarding warranty coverage, terms, and conditions, please refer to the documentation included with your purchase or contact the retailer/manufacturer directly.

For technical support, service, or inquiries, please contact Nobsound customer service or your authorized dealer. Keep your purchase receipt and product serial number handy when contacting support.

