

Douk Audio P1

Douk Audio P1 GE5654 Tube Preamp Instruction Manual

Model: P1

1. INTRODUCTION

The Douk Audio P1 is a versatile HiFi vacuum tube preamplifier, USB DAC, and headphone amplifier designed to deliver a clear, warm, dynamic, and sweet audio experience. It supports multiple audio inputs and outputs, making it suitable for various home audio systems.

2. KEY FEATURES

- Multi-functional device: Functions as a HiFi tube preamplifier, USB DAC, and headphone amplifier.
- High-quality sound: Delivers clear, warm, dynamic, and sweet audio for a premium listening experience.
- Multiple audio inputs: Supports Bluetooth, USB, and RCA connections.
- Dual audio outputs: Provides RCA and 3.5mm headphone outputs.
- Bluetooth 5.0 with APTX, APTX-LL, and APTX-HD: Ensures lossless audio transmission for high-fidelity wireless streaming.
- PC-USB (CM6642) support: Compatible with 24bit 192KHz audio, supporting Windows, Mac, and Linux systems.
- Headphone amplifier: Utilizes two NE5532 classic 47 headphone amp architecture, capable of driving 32-300 ohm headphones.
- Tone control bypass: Features a bypass switch to enable/disable tone controls (treble and bass knobs) for original sound or detailed adjustment.
- Wide compatibility: Connects to various stereo home audio devices such as iPods, smartphones, MP3 players, TVs, Blu-ray players, Echo Dot, and CD players.

3. PACKAGE CONTENTS

Please check the box for the following items:

- 1 x P1 Preamp Unit
- 2 x GE5654 Vacuum Tubes
- 1 x DC 12V Power Adapter
- 1 x USB Cable
- 1 x Bluetooth Antenna
- 1 x User Manual



Image: Douk Audio P1 package contents including the preamp unit, vacuum tubes, power adapter, USB cable, and Bluetooth antenna.

4. PRODUCT OVERVIEW

4.1 Front Panel



Image: Front view of the Douk Audio P1, showing the power button, input selector, tone controls (bass, volume, treble), tone bypass switch, LED indicator, and headphone output.

- **Power Button:** Press to turn the unit ON/OFF.
- **Input Selector:** Switch between Bluetooth (BT), USB, and RCA inputs.
- **Tone Controls:**
 - **Bass Knob:** Adjusts low-frequency output.
 - **Volume Knob:** Controls the overall output volume.
 - **Treble Knob:** Adjusts high-frequency output.
- **Tone Bypass Switch:** Toggles tone controls (Bass/Treble) ON/OFF. When OFF, tone controls are bypassed for a pure signal path.
- **LED Indicator:** Displays current input mode (Blue for Bluetooth, Orange for USB, Red for RCA).
- **3.5mm Headphone Output:** Connect headphones (TRRS port not supported).

4.2 Rear Panel

3種類のオーディオ入力（Bluetooth / USB / RCA）と2種類の出力（RCA / 3.5mmヘッドフォン）を備えたP1は、HiFi真空管プリアンプ

USB DAC、またはHiFiクリア、ウォーム、ダイナミック、スイートチューブを備えたヘッドフォンアンプとして使用するもともできます。



Image: Rear view of the Douk Audio P1, showing PC-USB input, RCA inputs, RCA outputs, DC 12V power input, and Bluetooth antenna port.

- **PC-USB Input:** Connect to a computer for USB DAC functionality.
- **RCA Inputs (L/R):** Connect external audio sources via RCA cables.
- **RCA Outputs (L/R):** Connect to power amplifiers or active speakers.
- **DC 12V Power Input:** Connect the provided 12V power adapter.
- **Bluetooth Antenna Port:** Attach the included Bluetooth antenna for wireless connectivity.

5. SETUP INSTRUCTIONS

5.1 Installing Vacuum Tubes

The P1 unit comes with two GE5654 vacuum tubes. Follow these steps to install them:

1. Carefully remove the metal rings around the tube sockets by unscrewing them counter-clockwise.
2. Gently straighten the pins of each vacuum tube if they are bent.
3. Align the pins of the vacuum tube with the corresponding holes in the socket. Ensure correct orientation.

4. Gently push the tube into the socket until it is firmly seated. Do not force it.
5. Screw the metal rings back on clockwise to secure the tubes.

Your browser does not support the video tag.

Video: This video demonstrates the correct method for installing vacuum tubes into the amplifier unit. Ensure pins are straight and gently insert the tubes into their sockets.

5.2 Connecting Power

1. Connect the provided DC 12V power adapter to the "DC 12V" input port on the rear panel of the P1.
2. Plug the power adapter into a suitable wall outlet.

5.3 Attaching Bluetooth Antenna

Screw the included Bluetooth antenna into the antenna port on the rear panel. Ensure it is securely tightened for optimal signal reception.

6. OPERATING INSTRUCTIONS

6.1 Powering On/Off

Press the Power button on the front panel to turn the P1 unit ON or OFF. The vacuum tubes will glow once powered on.

6.2 Selecting Input Source

Use the Input Selector button on the front panel to cycle through the available input sources: Bluetooth (BT), USB, and RCA. The LED indicator will change color to show the active input:

- **Blue:** Bluetooth Input
- **Orange:** USB Input
- **Red:** RCA Input

6.3 Bluetooth Connection

1. Select Bluetooth input using the Input Selector. The LED will turn blue and blink, indicating pairing mode.
2. On your audio device (smartphone, tablet, etc.), enable Bluetooth and search for "BT HIFI AUDIO".
3. Select "BT HIFI AUDIO" to pair. Once connected, the blue LED will stop blinking and remain solid.
4. If you encounter issues, clear previous Bluetooth connections on your device and the P1 unit (see Troubleshooting).

Your browser does not support the video tag.

Video: This video demonstrates how to connect a Bluetooth device to the amplifier and play music. It shows the pairing process and audio playback.

6.4 USB DAC Connection

Connect the P1 to your computer using the provided USB cable. Select USB input on the P1. Your computer should automatically recognize the P1 as an audio output device. Select it in your sound settings.

6.5 RCA Input/Output

Use RCA cables to connect external audio sources (e.g., CD player, TV) to the RCA input ports. Connect the RCA output ports to a power amplifier or active speakers.

32~300Ωのヘッドホンを駆動できるNE5532オペアンプ+クラシック47ヘッドホンアンプアーキテクチャを採用し

バイパススイッチはトーンコントロールをオン/オフするように特別に設計されており、オリジナルのサウンドを楽しんだり、高音と低音でより繊細なサウンドを得るのに便利です。



Image: The Douk Audio P1 connected to a laptop via USB and to speakers via RCA, demonstrating its versatile connectivity options.

6.6 Adjusting Volume and Tone

- **Volume Knob:** Rotate clockwise to increase volume, counter-clockwise to decrease.
- **Bass Knob:** Adjusts the level of low frequencies.
- **Treble Knob:** Adjusts the level of high frequencies.
- **Tone Bypass Switch:** Flip this switch to bypass the Bass and Treble controls. This provides a direct, unaltered audio signal.

7. MAINTENANCE

7.1 Tube Replacement

The GE5654 vacuum tubes can be replaced with compatible tubes such as 6J1, 6J2, 6J3, 6J4, 6J5, 6*1N, 6AK5, and similar types to customize the sound profile. Always ensure the unit is powered off and unplugged before replacing tubes. Follow the installation steps in Section 5.1.

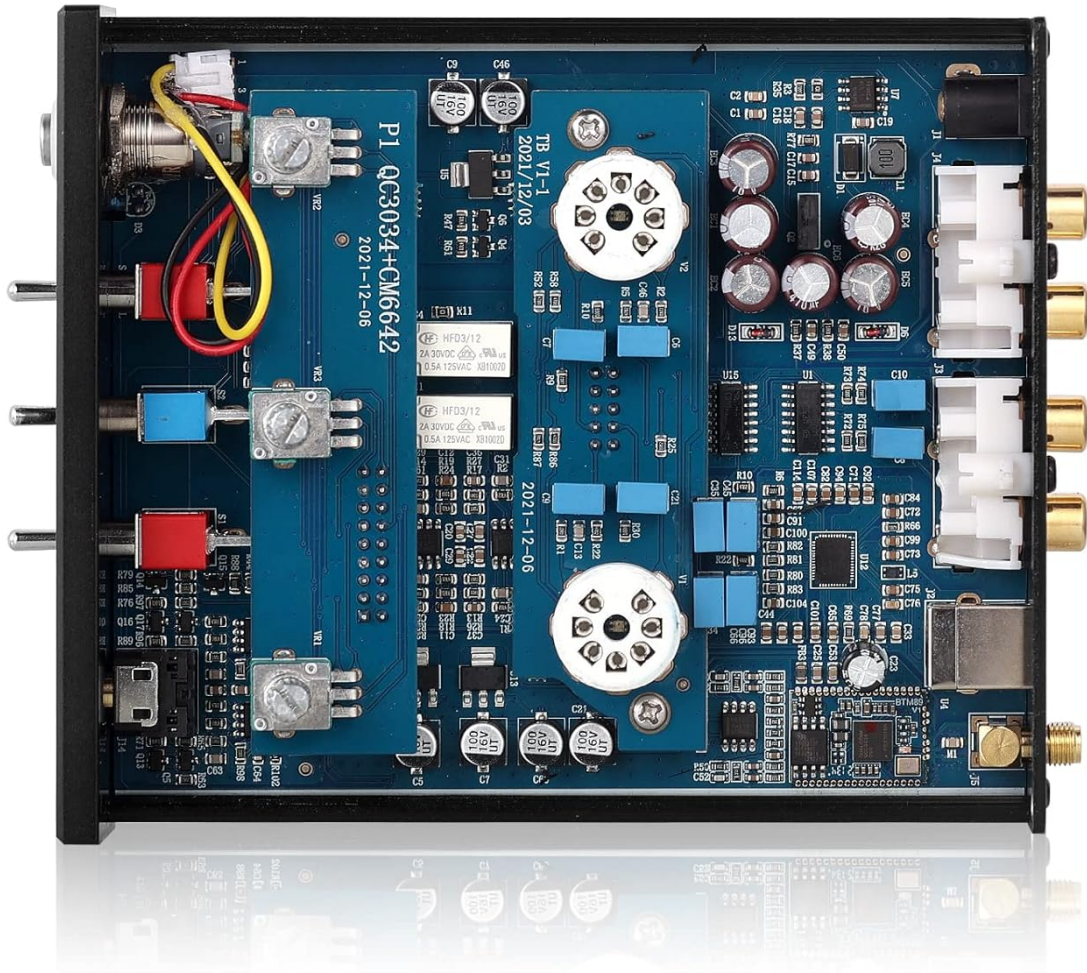


Image: Close-up of the Douk Audio P1 showing the GE5654 vacuum tubes, which can be replaced for sound customization.

7.2 Cleaning

Use a soft, dry cloth to clean the unit. Do not use liquid cleaners or solvents.

8. SPECIFICATIONS

Feature	Specification
Product Type	HiFi Tube Preamp, USB DAC, Headphone Amp
Tube Model	GE5654 (Replaceable with 6J1, 6J2, 6J3, 6J4, 6J5, 6*1N, 6AK5)
Audio Inputs	Bluetooth 5.0, USB, RCA
Audio Outputs	RCA, 3.5mm Headphone Jack
Bluetooth Chip	QCC3008 (Supports APTX, APTX-LL)

Feature	Specification
USB DAC Chip	CM6642 (Supports 24bit 192KHz)
Headphone Amp Chip	2 x NE5532 (Classic 47 architecture)
Headphone Impedance	32-300 ohms
Tone Control	Bass, Treble (with bypass switch)
Power Supply	DC 12V
Compatibility	Windows, Mac, Linux, iPod, Smartphones, MP3 players, TVs, Blu-ray players, Echo Dot, CD players

9. TROUBLESHOOTING

- **No Sound:**

- Ensure the power adapter is securely connected and the unit is powered ON.
- Check all audio cables (RCA, USB, headphone) are correctly connected.
- Verify the correct input source is selected on the P1 (check LED color).
- Adjust the volume knob.
- If using Bluetooth, ensure the device is paired and connected. Try clearing Bluetooth history on both devices and re-pairing.

- **Distorted Sound:**

- Reduce the volume on both the P1 and the source device.
- Check audio cables for damage or loose connections.
- Ensure the vacuum tubes are properly seated.

- **Bluetooth Pairing Issues:**

- Ensure the P1 is in Bluetooth pairing mode (blinking blue LED).
- Clear "BT HIFI AUDIO" from your device's Bluetooth history and try pairing again.
- Move closer to the P1 unit to ensure a strong signal.

- **Tubes Not Glowing:**

- Ensure the unit is powered ON.
- Check if the tubes are properly seated in their sockets.

10. SAFETY INFORMATION

- Do not expose the unit to water or excessive moisture.
- Avoid placing the unit near heat sources or in direct sunlight.
- Do not attempt to open or service the unit yourself. Refer all servicing to qualified personnel.
- Keep out of reach of children.
- Use only the provided power adapter.

11. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact Douk Audio customer support through your retailer or visit the official Douk Audio website. Please retain your proof of purchase for warranty claims.