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› Douk Audio T4 PRO Vacuum Tube Phono Preamp & Headphone Amplifier Instruction Manual

Douk Audio T4

Douk Audio T4 PRO Vacuum Tube Phono Preamp & Headphone Amplifier Instruction Manual

Model: T4

Brand: Douk Audio

1. INTRODUCTION

The Douk Audio T4 PRO is a versatile vacuum tube phono preamplifier and headphone amplifier designed to enhance your audio experience. It features both MM phono input for turntables and a 3.5mm AUX input for various audio sources, along with a built-in headphone amplifier. This manual provides detailed instructions for setting up, operating, maintaining, and troubleshooting your T4 PRO.



Figure 1: Douk Audio T4 PRO Vacuum Tube Phono Preamp & Headphone Amplifier

2. SETUP

2.1. Unboxing and Package Contents

Carefully unpack all components and ensure the following items are included:

- Phono Preamp (Douk Audio T4 PRO unit)
- Power Adapter
- Vacuum Tubes (GE5654)
- Quick Start Guide

2.2. Tube Installation

The T4 PRO comes with two JAN5654 vacuum tubes. Gently insert each tube into its designated socket on the top of the unit, ensuring the pins align correctly. Apply gentle, even pressure until the tubes are fully seated. Avoid forcing them to prevent damage.

Imported JAN5654 tubes and vintage warm sound

Improves everything associated with your music such as detail, transparency, immediacy, richness, dynamic, tone etc., much better than 6J1 series especially in human voice. Pluggable tube socket for tube rolling and sound-shaping, easy to pick from and alter the sound signature to one's preference.

Applicable vacuum tube model:

6K4/6J1/6J4/6AK5/6*

In vacuum tubes, etc.



Figure 2: Installing the GE5654 Vacuum Tubes

2.3. Connecting Your T4 PRO

Follow these steps to connect your T4 PRO to your audio system:

1. **MM Phono Input:** Connect your MM (Moving Magnet) turntable's RCA output cables to the "PHONO IN" RCA jacks on the rear panel of the T4 PRO. Ensure to connect the left (white) and right (red) channels correctly. Connect the turntable's ground wire to the GND terminal on the T4 PRO.
2. **3.5mm AUX Input:** For other audio sources (e.g., phone, tablet, PC, MP3 player), connect a 3.5mm audio cable from your device's output to the "AUX" input jack on the front panel. *Note: The 3.5mm AUX input has priority over the MM Phono input. If both are connected, the AUX input signal will be used.*
3. **Line Output:** Connect the "LINE OUT" RCA jacks on the rear panel of the T4 PRO to an available line-level input (e.g., AUX, CD, Tuner) on your stereo amplifier, active speakers, or audio receiver.
4. **Headphone Output:** Connect your headphones (32-300 ohm) to the 3.5mm headphone output jack on the front panel.
5. **Power Connection:** Connect the provided 12V DC power adapter to the "DC 12V" input on the rear panel, then

plug the adapter into a wall outlet.



Figure 3: Front Panel Connections (AUX, Headphone)



Figure 4: Rear Panel Connections (Power, Line Out, Phono In)



Figure 5: Input Connection Diagram

2.4. Official Product Video: Setup and Overview

Your browser does not support the video tag.

Video 1: Official overview of the Douk Audio T4 Pro Tube Phono Preamp, demonstrating its features and connectivity for MM turntables.

3. OPERATING INSTRUCTIONS

3.1. Power On/Off and Volume Control

The large red knob on the front panel serves as both the power switch and volume control. Rotate the knob clockwise to turn the unit on and increase the volume. Rotate counter-clockwise to decrease the volume and turn the unit off.

3.2. Input Priority

The T4 PRO automatically prioritizes the 3.5mm AUX input. If an audio source is connected to the AUX input, the unit will process that signal. If no device is connected to the AUX input, the unit will automatically switch to the MM Phono input.

3.3. Headphone Usage

Once your headphones are connected to the 3.5mm headphone output, the audio will be routed to your headphones. Adjust the volume using the main volume knob.

3.4. Tube Rolling (Sound Customization)

The T4 PRO features a pluggable tube socket, allowing users to experiment with different compatible vacuum tubes (e.g., 6K4/6J1/6J4/6AK5/6* series) to alter the sound signature to their preference. Ensure the unit is powered off and unplugged before attempting to replace tubes. Handle tubes carefully as they can be fragile.

4. MAINTENANCE

4.1. Cleaning

To maintain the appearance and performance of your T4 PRO, regularly wipe the exterior with a soft, dry cloth. Avoid using liquid cleaners or abrasive materials, as they may damage the finish. Ensure the unit is powered off and unplugged before cleaning.

4.2. Tube Care

Vacuum tubes have a finite lifespan. While the included GE5654 tubes are durable, their performance may degrade over time. If you notice a change in sound quality or if a tube stops glowing, it may be time for replacement. Always ensure the unit is cool and unplugged before handling tubes.

4.3. Storage

If storing the T4 PRO for an extended period, disconnect all cables, including the power adapter. Store the unit in a cool, dry place away from direct sunlight and extreme temperatures. It is advisable to keep the original packaging for safe storage and transport.

5. TROUBLESHOOTING

If you encounter issues with your T4 PRO, please refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No Sound Output	Incorrect connections; Volume too low; AUX input prioritized; Faulty cables.	Check all RCA and 3.5mm connections. Ensure volume is turned up. Disconnect AUX cable if using Phono input. Test with different cables.
Humming/Buzzing Noise	Ground loop; Improper grounding of turntable; Interference from other electronics; Loose tube.	Ensure turntable ground wire is securely connected to the T4 PRO. Try plugging the T4 PRO and connected devices into the same power strip. Move unit away from other electronic devices. Re-seat tubes.
Distorted Sound	Volume too high; Faulty tubes; Incorrect cartridge type (MM vs MC).	Reduce volume. Check if tubes are glowing properly; consider replacing them if old. Ensure your turntable has an MM cartridge, as the T4 PRO is designed for MM.
Tubes Not Glowing	Unit not powered on; Tubes not seated correctly; Faulty tubes.	Ensure the power knob is turned on. Re-seat the tubes firmly. If still not glowing, tubes may need replacement.

If the problem persists after trying these solutions, please contact Douk Audio customer support for further assistance.

6. SPECIFICATIONS

Key technical specifications for the Douk Audio T4 PRO:

- **Model:** T4 PRO
 - **Tube Type:** GE5654 (default)
 - **Inputs:** MM Phono (RCA), 3.5mm AUX
 - **Outputs:** Line Out (RCA), 3.5mm Headphone Output
 - **Headphone Impedance:** 32-300 Ohm
 - **Signal-to-Noise Ratio (S/N):** $\geq 105\text{dB}$
 - **Control Knob:** Solid aluminum, smooth multi-level gain adjustment
 - **Power Management:** TI TPA5430
 - **Phono Preamp Circuit:** TL071+JRC2068
 - **Headphone Amp Circuit:** 2*NE5532
 - **Dimensions:** 10.08 x 8.54 x 2.52 inches (approximate package dimensions)
 - **Weight:** 1.39 Pounds (approximate package weight)
-

Mini size and excellent performance

Compact T4 PRO will give you a different acoustic enjoyment with large dynamic and sweet tube sound even in limited space.



Figure 6: Design and Component Overview

Perfect circuit design

Reasonable and advanced architecture, TI TPA5430 for power management,

TL071+JRC2068 phono preamp circuit etc.,

enjoy HiFi analog sound and first-class design with an unbeatable low cost.

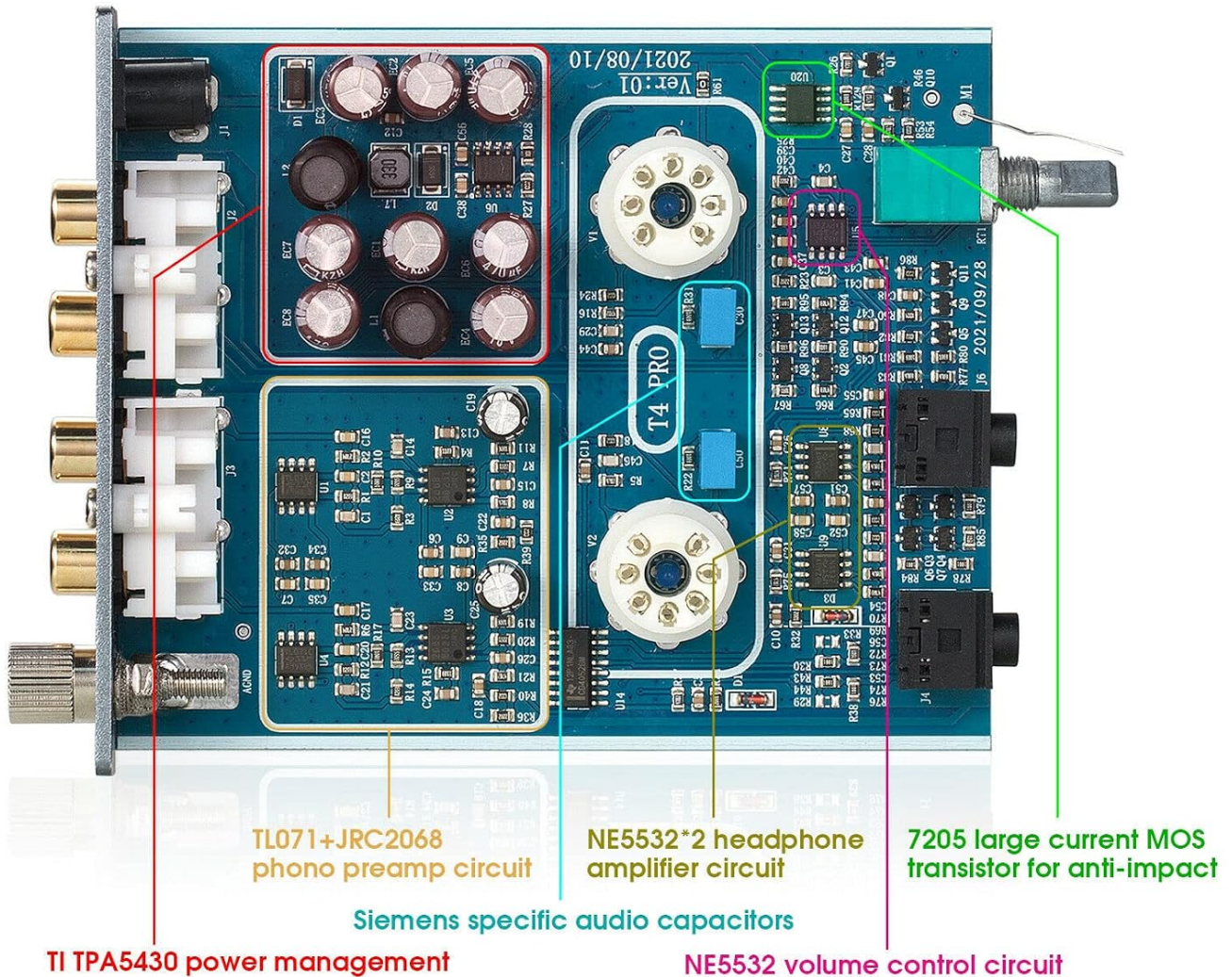


Figure 7: Internal Circuit Design

7. WARRANTY & SUPPORT

For warranty information and customer support, please refer to the specific terms provided at the time of purchase or visit the official Douk Audio website. Keep your purchase receipt as proof of purchase for any warranty claims.

You can also visit the [Douk Audio Store on Amazon](#) for more product information and support resources.

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Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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