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› PSVANE /

› PSVANE Summit Series KT88 Vacuum Tube Instruction Manual

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1. PRODUCT OVERVIEW

The PSVANE Summit Series KT88 vacuum tubes are designed for high-fidelity audio amplifier applications. These tubes incorporate advanced manufacturing technologies to deliver balanced tonal performance, power, control, and dynamic headroom. Each tube undergoes rigorous selection processes to ensure superior electrical performance and consistency.



Figure 1: PSVANE Summit Series KT88 Vacuum Tubes (Matched Pair)

2. KEY FEATURES

- **HPC Coating Technology:** Features a proprietary multi-layer composite coating that enhances cathode electron emission efficiency, extends tube lifespan, and ensures consistent gain performance.
- **Balanced Tonal Performance:** Optimized for power, control, and dynamic headroom, delivering a clear and impactful soundstage with enhanced low-mid frequencies and defined highs.
- **Rigorous Selection Process:** Only the top 2–3% of tubes from each production batch, exhibiting superior electrical performance and consistency, are designated for the Summit Series.
- **Versatile Application:** Excels across various music genres, from orchestral works to rock and electronic music.



Figure 2: Internal structure of a PSVANE Summit Series KT88 tube, showcasing the HPC Coating.

3. SETUP AND INSTALLATION

3.1 Unpacking

- Carefully remove the vacuum tubes from their packaging.
- Inspect each tube for any visible damage.
- Retain the original packaging for future storage or transport.



Figure 3: PSVANE Summit Series KT88 tubes and packaging.

3.2 Installation

1. Ensure your amplifier is powered off and unplugged from the mains.
2. Allow the amplifier to cool down completely if it has been in use.
3. Carefully grasp the base of the KT88 tube, avoiding contact with the glass envelope.
4. Align the pins of the tube with the corresponding sockets on your amplifier. The pins are keyed to ensure correct orientation.
5. Gently push the tube straight down into the socket until it is firmly seated. Do not force the tube.
6. Repeat for all tubes in the matched pair.



Figure 4: Base of the KT88 tube with pins for amplifier insertion.

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Video 1: This video demonstrates the visual characteristics and internal components of the PSVANE Summit Series KT88 Vacuum Tube, providing a closer look at its design and construction.

4. OPERATING INSTRUCTIONS

4.1 Initial Power-Up

- After installation, plug your amplifier back into the mains.
- Turn on your amplifier. The tubes will begin to glow as they warm up.
- It is recommended to start with the amplifier's volume at its lowest setting.

4.2 Warm-Up Period

Vacuum tubes require a warm-up period to reach optimal operating temperature and sound quality. Allow your amplifier to warm up for at least 15-30 minutes before critical listening. During this time, the sound quality will gradually improve, becoming richer and more detailed.



Figure 5: PSVANE tubes glowing during operation in an amplifier.

5. MAINTENANCE AND CARE

- **Handling:** Always handle tubes by their base. Avoid touching the glass envelope with bare hands, as oils can create hot spots and reduce tube life. If touched, clean with a soft, lint-free cloth.
- **Cleaning:** Keep the tubes and amplifier free from dust. Use a soft brush or compressed air to gently remove dust.
- **Storage:** If removing tubes for extended periods, store them in their original packaging in a cool, dry place.
- **Replacement:** Vacuum tubes have a finite lifespan. Replace tubes when you notice a degradation in sound quality, increased noise, or visible signs of wear.



Figure 6: Close-up of a glowing PSVANE Summit Series KT88 tube.

6. TROUBLESHOOTING COMMON ISSUES

Problem	Possible Cause	Solution
No sound or weak sound	Improper tube seating, faulty tube, amplifier issue	Re-seat tubes, test with known good tubes, check amplifier connections.
Humming or buzzing noise	Ground loop, faulty tube, external interference	Check grounding, try different power outlets, replace tubes if necessary.
Distorted sound	Overdriven signal, faulty tube, amplifier bias issue	Reduce input signal, replace tubes, consult amplifier manual for bias adjustment.
Tubes not glowing	No power to amplifier, faulty tube, filament issue	Check power supply, ensure tubes are correctly seated, replace tube.

7. PRODUCT SPECIFICATIONS

Specification	Value
Item Weight	1.59 pounds
Package Dimensions	7.8 x 7.56 x 4.61 inches
Item Model Number	Summit Series KT88
Date First Available	December 29, 2020

8. WARRANTY AND CUSTOMER SUPPORT

PSVANE Summit Series KT88 Vacuum Tubes come with a **24-month warranty**. This extended warranty period reflects our confidence in the quality and durability of our Summit Series products. Should you encounter any issues or require assistance, please contact our customer support team. We are committed to ensuring your satisfaction and will assist with any problems you may experience.

For support, please refer to the contact information provided with your purchase or visit the official PSVANE website.