

Thank you very much for choosing Shuguang Audio vacuum tube amplifier. When opening the package, please carefully install all tubes as instructed and push down each tube securely to its socket to ensure a solid connection.

Please read this manual in its entirety before you turn on the amplifier for the first time.

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### **About Shuguang Audio**

Shuguang Electron Group (aka Shuguang Electron) currently is the world's largest vacuum tube producer. The group was formed in 1958 and over the past decades, Shuguang has designed and manufactured many high quality audio vacuum tubes and they are used on tube audio products under many brands.

Shuguang Dongsheng Electronics Co. Ltd (aka Shuguang Audio) is a subsidiary of Shuguang Electron Group, specialized in high end vacuum tubes and tube audio design, manufacture and distribution.

This vacuum tube amp is one of Shuguang Audio's many products.

### **Caution!**

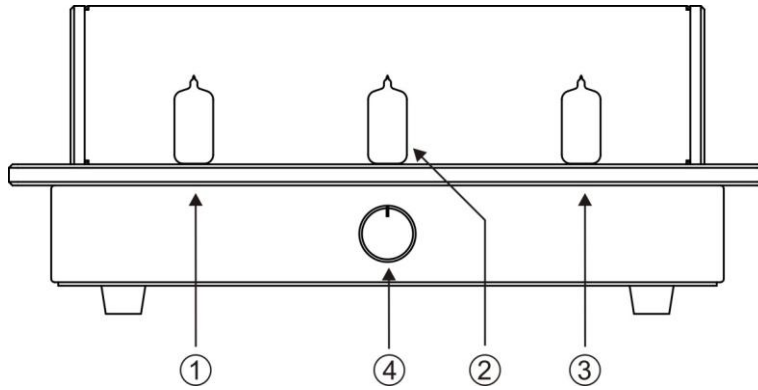
- This product should only be used with its specified power supply voltage / frequency to ensure safety and longevity.
- If the product is not in use for extended period of time, please unplug the unit from your power supply.
- When the product is powered on, do not touch the vacuum tubes with bare hands or any materials that could melt at high temperature. Tubes operate at extremely high temperature and could cause serious burn to exposed skin. Children should be kept away from a tube amplifier, no matter if it is powered on or off for safety precautions.
- Each channel has two output terminals – 4 ohm and 8 ohm. Under no circumstance should the product be connected with speakers at both 4 ohm and

8 ohm terminals at the same time. This will overload your amp and cause serious damages.

- Before turning on the product, please check if your speakers are connected to the amplifier properly. Turning on a tube amplifier without speaker load could cause serious damage to your amplifier and it is not covered by manufacturer' s warranty.
- The product should be kept in a dry area, without excessive moisture and has absolutely no contact with liquid.
- Tube amplifier produces heat during operation – it should always be kept well ventilated. Do not install them inside an enclosed cabinet.
- Any repairs should be carried out by certified personnel only.
- When moving a tube amplifier, please be gentle in case the vacuum tubes are damaged during handling.
- Under no circumstance should a vacuum tube be removed from a tube amplifier or speakers are disconnected while the amplifier is still powered on.

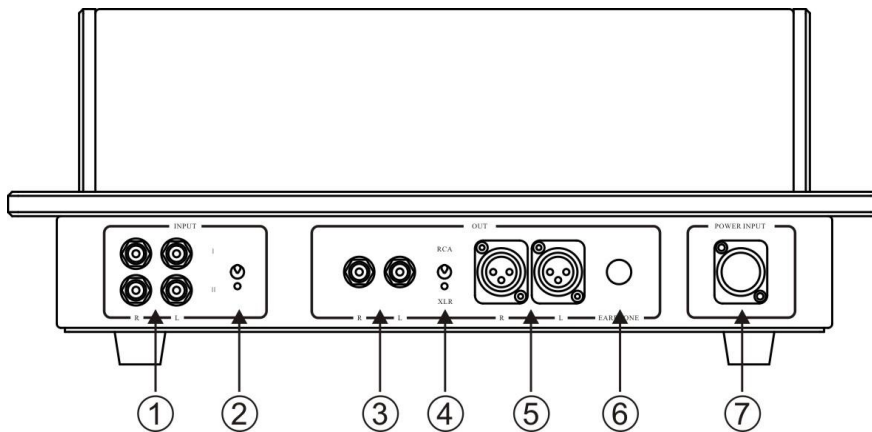
**Function:**

a) Amplifier Front View :



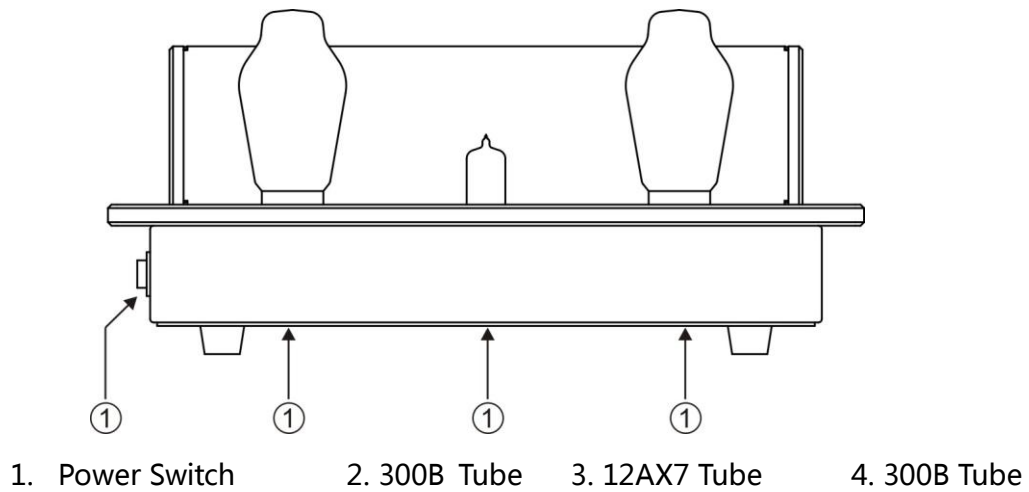
1. 6C16 Tube      2. 6N3 tube      3. 6C16 Tube      4. Volume Control

b) Amplifier Rear View:

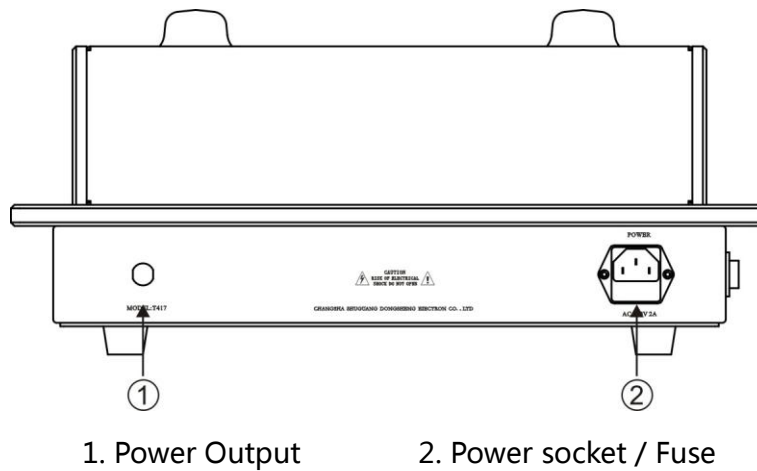


1. RCA Inputs      2. Input Switch      3. RCA Output      4. Output Switch  
5. XLR Output      6. Headphone Output      7. Power

c) Power Supply Front View :



d) Power Supply Rear View :



**Specifications:**

This preamplifier output impedance is rated at 600 ohm, which is the optimal match to the Psvane T845 super monoblocks. You may use this preamplifier to match other high end power amplifiers based on the following specifications:

- Input impedance : 100K ohm
- Input Sensitivity :  $\leq 350\text{mV}$

- Output Voltage : >12V(1%THD)
- Output Impedance : <600Ω
- Frequency Response : 5Hz-35KHz -1dB
- THD : ≤0.1% ( RMS 2.5V )
- S/N Ratio : 89dB
- Power Input: AC 120V 60Hz +/-10%
- Net weight : Amplifier - 10.5 Kg Power Supply - 15Kg
- Size : Amplifier 430 (W) x 175 (H) × 280 (D)
- Size: Power Supply 430 (W) × 210 (H) × 280 (D)

### **Operational Instructions:**

1. Connect the power supply section to the amplifier section with the cable provided.
2. Connect the preamplifier inputs with source components' output
3. Connect the preamplifier output with power amplifier(s)
4. Connect power amplifier with speaker load before turning power on
5. Turn volume control to minimum, press down 'Power' , the LED light will turn on and tubes filament turn bright gradually
6. Wait for 30 seconds, adjust the preamplifier volume to proper level then you can start to listen to the music.
7. In 5-10 minutes after power on, the amplifier and the tubes will be preheated and the sound will be warmer and fuller than just powered on.

### **Cautions regarding vacuum tubes:**

- 1、 Each tube has a guide pin and the tube should only be installed with the guide pin fits into the socket appropriate position.
- 2、 Do not pull a tube by holding the glass part only. Only pull a tube by its base. Do not

shake, tap or snap a vacuum tube. A tube is a very fragile and delicate device – any external force could cause fatal damage to it and such damage is not covered by manufacturer' s warranty.

- 3、 When a tube' s internal silver coating becomes grey or white, the tube' s vacuum seal has broken and it must be replaced.
- 4、 When a tube' s plate becomes abnormally red hot (it can only be identified in a dark room), it indicates that the tube is running at over its heat dissipation limit. You should turn off the amp immediately and find out what caused the overheating, which could be a result of voltage variation, bias setting too high or a failing component in the circuit. It' s highly recommended to have a technician to check out the amp thoroughly before resuming normal use.

**Warranty:**

Please consult your local distributor for warranty policy.