

Woo Audio

**WA-5 300B Pure Class-A Single Ended
Integrated Headphone and Speaker Amplifier**

User's Manual

www.WooAudio.com

IMPORTANT – PLEASE READ BEFORE YOU SET UP THE AMPS

FAILURE TO DO MAY RESULT SERIOUS INJURY OR DAMAGE OF THE AMPLIFIERS

- **DO NOT** switch on the amp before properly installing **ALL** tubes.
- **DO NOT** switch on the amp without installing the power supply connection cable on both units.
- **DO NOT** switch to SPK or K1K setting without speakers or AKG K1000 connected to the amp. However, you can switch between the high and low impedance setting without a headphone connected to the amp.
- **DO NOT** pull out the tubes and power supply cable while the amp is operating
- **DO NOT** touch the tubes (**extremely hot**) after warm-up.
- **DO NOT** leave the amps to run unattended. To use the amp safely, please allow the amp to cool down for every 8 hours of continuous play time.
- **DO** turn off the amp when switching from speaker to headphone or vice versa. This is just for a safety use for this amp. At least, you should turn the volume to minimum when switching.
- **DO** unplug the standard headphone before switching off the amp. You do not have to do this or you will hear a small pop sound in the headphone (the pop will not damage the headphones anyway).
- **DO** turn off the amp if the amp sounds abnormally.
- **DO** allow minimum 2 inches of air clearance for ventilation
- **DO** allow approximate 3 minutes of warm-up
- **DO** allow minimum 100 hours of playing time so that peak performance can be realized

Installing 300B (outter tubes)

The two thick pins **MUST** be aligned and oriented to go into the two larger holes in the socket (see 2 red circles). It is possible to plug this tube in the wrong way - so pay careful attention to the pin alignment on these tubes.

Installing 6SN7 (inner tubes)

Align and orient the spigot on tube base to the red circle. Insert the tube vertically to the tube socket, slowly but firmly. Once inserted, the tube should not be moving freely.

PAY ATTENTION TO THE RED CIRCLES WHEN INSTALLING TUBES



Installing 5U4G

Align and orient the spigot on tube base to the red circle. Insert the tube vertically to the tube socket, slowly but firmly. Once inserted, the tube should not be moving freely.

PAY ATTENTION TO THE RED CIRCLES WHEN INSTALLING TUBES



Installing Power Supply Cable



1. Locate the **Power Supply Output** (left) and **Power Supply Input** (right) on the rear panel. Both of them are male sockets.



2. Align and orient the power supply cable, wider cut face down, to the male socket.



3. Insert the power supply cable slightly. You should feel the connector be inserted by 1/4 inches. Turn the free moving ring clockwise (about 30 degrees) until you hear a click sound. If you cannot turn the ring easily, STOP and RE-ALIGN.



5. Check the white marks aligned as the red circle indicate.



6. Insert the other end on another unit. NOTE: Either end of the cable can be inserted into either unit. Plug-in AC power cord.

Turning on the amp

WARNING: YOU MUST FINISH THE PREVIOUS STEPS BEFORE TURNING ON THE AMP



Dial the power switch clockwise to turn on the amplifier.

There is an approximate **30 seconds of delay** after switching on the amp. During this time, you will see the blue LED blinking on the Power Supply unit. Once the LED becomes solid, the amps can be operated.

Features

Functional switch – see left switch

SPK – Speaker output

K1K – AKG K-1000 headphone output

HPL – Headphone Low impedance headphone jack output (8 to 40 ohms)

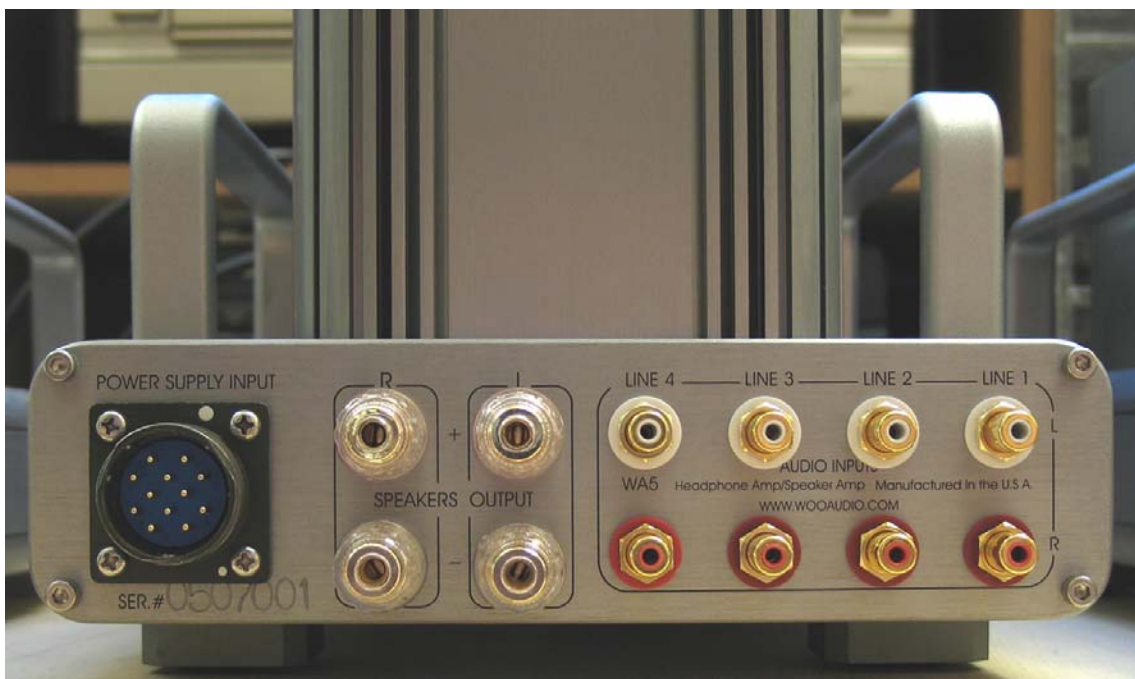
HPH – Headphone High impedance headphone jack output (41 to 600 ohms)



Connection panel

Speaker terminals (+) RED, (-) BLACK

Source inputs – LINE 1, LINE 2, LINE 3, LINE 4 correspond to Source Selector 1, 2, 3, 4



Specifications

Headphone Amplifier Specifications:

- Headphones impedance : 8-800 Ohms
- Frequency response: 10 Hz—60 KHz, -2dB
- Power output ≥ 1.5 watt
- Signal/Noise: ≥ 95 dB
- THD: $\leq 0.08\%$, 1Khz

Speaker Amplifier Specifications:

- Power output: $\leq 10W \times 2$, THD $\leq 3\%$, 1Khz
- Frequency response: 16—38 KHz, -2dB
- Output impedance: 8 ohms
- Signal/Noise: ≥ 90 dB

Standard Features:

- Independent headphone and speaker circuits
- High-end output transformer design
- Point-to-Point wiring
- Selectable speaker, AKG-K1000, high and low impedance dynamic headphones output switch
- One 1/4" headphone jack and one XLR connector for K1000
- Four pairs of gold-plate RCA inputs
- Selectable inputs switch
- Two pairs of gold-plate speaker terminals