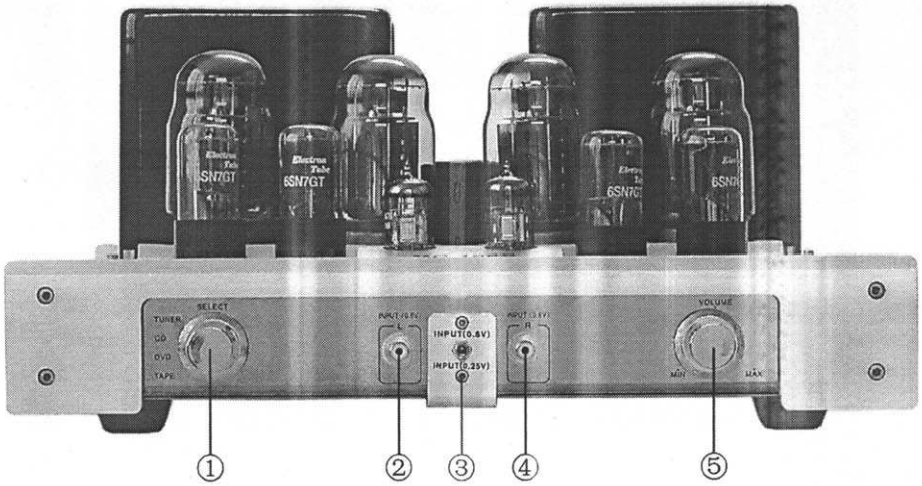
ΨΑΘΙΝ®

Owner's Manual

MC-100B

TUBE AMPLIFIER

Panel Function diagram



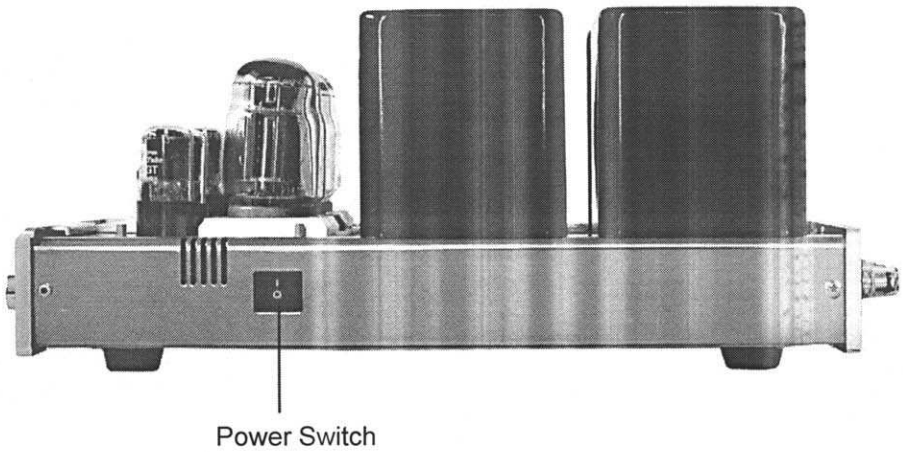
1. Signal input selector (respectively for TAPE, DVD, CD and TUNER).
2. Left channel (L) external pre input jack ((INPUT 0.6V).

   Packed mode when (INPUT 0.25V) is selected.
3. Selector

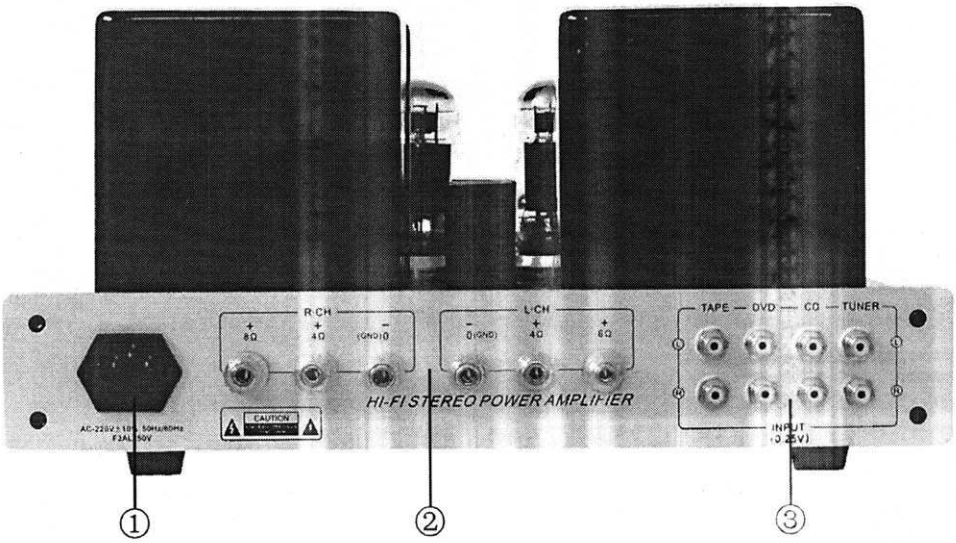
   Pro mode when (INPUT 0.6V) is selected

   Note: (please cut off the power supply to this unit before switching).
4. Right channel (R) external pre input jack (INPUT 6.0V)
5. Volume control

Side View

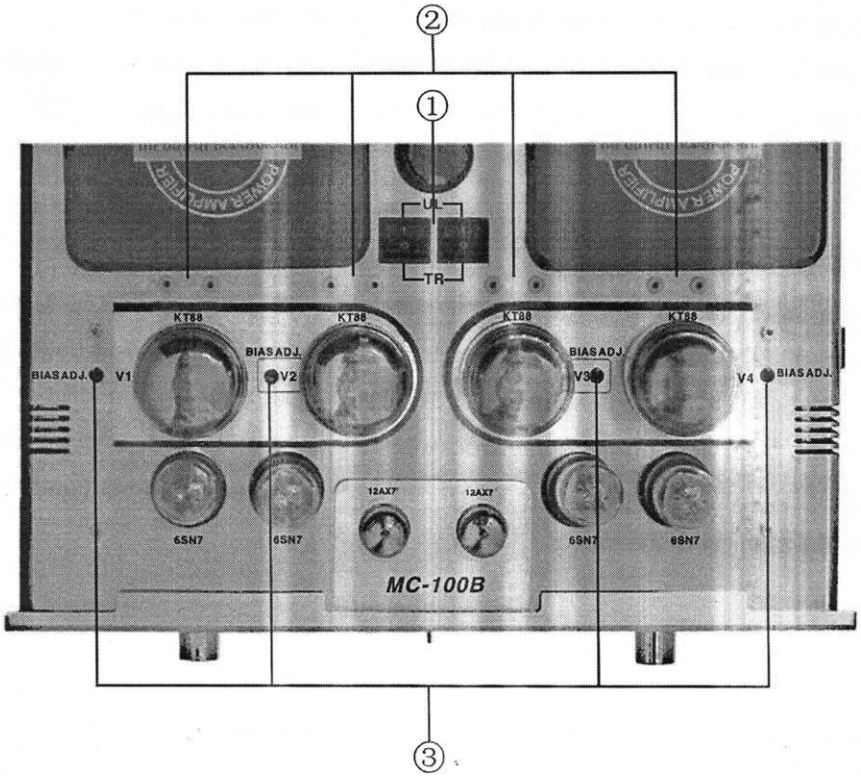


Back Panel Function Diagram



1. Power input line and fuse
   The input voltage of this socket shall be AC240V±10% (50Hz/60Hz)
   The fuse shall be F3AL250V
2. Connect the output terminals (+, −) respectively with the terminals (+, −) of the sound equipment, with the output impedance of 4Ω and 8Ω.
3. The audio input jacks shall be (TAPE, DVD, CD and TUNER) respectively.

Top Plan Function Diagram



1. Selection of two function modes

   The unit shall be in ultralinear mode when UT is selected (ultralinear connection will have the greater output power and the excellent drive and control).

   The unit shall be in triode mode when TR is selected (triode connection shall have smooth, fine and rich sound)

   Note: (please cut off the power supply to this unit before switching).

2. Four groups of valve bias measuring holes respectively for each pro valve: BIAS TEST POINT

3. Four valve bias regulating holes: **V1 BIAS ADJ.** **V2 BIAS ADJ.** **V3 BIAS ADJ.** **V4 BIAS ADJ.**

Valve bias measurement

The user may use the ampere-voltage-ohm meter to make the measurement. Set the meter to the level of DC1V, adjust the volume of the loudspeaker to minimum, insert the " + " and " - " poles on the meter to the " + " and " - " poles of (BIAS TEST POINT) respectively to measure the voltage by the meter. The working point setup of this unit shall be 0.55V -0.6V at the standard voltage of 240V.

Valve bias regulation

To replace the new valves, the user shall measure the bias of the four valves by the ampere-voltage-ohm meter. In case of deviation, adjust the variable resistance at each group of holes BIAS ADJ. (V1) BIAS ADJ. (V2) BIAS ADJ. (V3) BIAS ADJ. (V4) by the proper tools. Turn it clockwise o reduce the bias, and turn it counterclockwise to increase the bias, until the bias of the four valves reaches 0.55V-0.6V at the standard voltage of 240V. Make the measurement and regulation once again after the thermal stability of the valves.

Note

The manufacturer has set up the bias of this unit well before delivery, and mark (V1, V2, V3, V4) on the valves. Therefore, insert the valves correctly as per the №s respectively marked on the valves and the casings (V1, V2, V3, V4). Take care not to make any wrong insertion, for the bias difference between the valves may cause the over-current of a given valve, burn it and result in the unnecessary damage.

Troubles	Checks
Poor power supply, no indicator on	Check the insertion of the power plug, the supply to the socket, the connection of the fuse, and the power switch.
No sound	Check the selection of the input signal functional switch, the wiring of the back panel, the connection of the signal plug, and the supply to the signal source.
No sound from the right equipment	Check the wiring (break or short circuit) of the sound enclosure, the connection of the signal plug or the wiring of the signal line (break or short circuit)
No sound from the left equipment	Check the wiring (break or short circuit) of the sound enclosure, the connection of the signal plug or the wiring of the signal line (break or short circuit)
Wrong position of sound image	Check the pole connection of the sound enclosure and the power amplifier (+/ −), the position of the sound equipment, and the video/audio products played (copyrighted or not)
With AC noise or other noise	Check the contact of the input signal line or plug, check if there is any unshielded or poorly shielded signal wire used, if there is any welder, motor or engine used nearby that may cause the working interference. Check the noise from the program source, or if there is any released or poor connection between the valve and the valve holder (take out the valve, clean it and reinsert it into the holder).

* Warning: Don't put this equipment under the rain or in a damp place, otherwise it may cause the fire or electric shock.

* The warranty period for this unit shall be one year, and two months for the valve.

Electric Performance Index

Output Power:

30W × 2（8 Ω）Triode（TR）connection

60W×2（8 Ω）Ultralinear（UL）connection

Frequency Response: 5Hz～80KHz（-2dB）

Distortion: ≤ 1.5%

SNR: ≥ 90dB（A）

Input Sensitivity:

Intergrated: 0.25V

Power: 0.6V

Load Impedance: 4 Ω — 8 Ω

Tube: KT88 × 4　6N8P × 4　12AX7 × 2

Gross Weight: about 31kg

CLASS-A - YAQIN MC-100B Integrated Amplifier

- Awesome and powerful 65 watt per channel dual mono power amp. Two separate amps with two separate power supplies on one chassis.

- Beautiful styling with bright copper lacquered chassis and huge potted transformers with curved aluminum tube cage

- Front panel inputs to bypass internal preamp so you can use your own preamp or source directly to power amps

- Switchable from 65 watts Ultra linear to 32 watts pure triode mode

- Very powerful amplifier that will drive any speaker with authority. Great frequency extension and bass control.

Data
Input Power.....110V-240V AVAILABLE
Output Power ultra-linear (8 ohm)..... 2x 65W RMS
Output Power triode state (8 ohm)..... 2x 45W RMS
Valve / Tubes.....KT88x4 6SN7x4 12AX7x2
Frequency .....20Hz~100KHz (-1dB,10w/8 ohm)
Signal/Noise Ratio.....>80dB "A Weight"
Harmonic Distortion ..... <0.5%(1KHz60W)
Input Impedance..... 20Kohm
FRONT INPUT Level .....0.3V Power 0.6V (Selectable)
Power Consumption 300W
Load impedance ..... 8ohm or 4ohm
Signal Inputs Level..... >300mv
Input Jack .....4 groups
Size Dimension.....W 370mm x H 200mm x D 480mm
Colour.....Gold Body / Green metalic transformers
Weight..... 29kg
Packing Includes All Tubes, 1.5m Power Cord & Hex Key