



X7

OPERATION MANUAL

Combined electronic tube power amplifier

Thanks for choosing products of Zhuhai Muzishare Audio Equipment Co., Ltd.

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Thanks for choosing our Muzishare X7 Integrated Amplifier as an important part of your music system and please read the manual carefully before installation and operation.

In order to prevent damage during transportation the amplifier is packed with protective foams surrounding the tubes. Before installation please remove these foams to avoid any risks.

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Suggestions:

Muzishare X7 Integrated Amplifier is designed and manufactured with the best materials of the world and reaching the best results. We are not responsible for problems and damages caused by non-original parts replacement in the amplifier.

Package Contents

Please check the package carefully before unpacking in case of damage, broken or water stain, keep the arrow in the upward state. Open the packing box, the packing list is as follows:

- Muzishare X7 1
 - Main Fuses 2
 - Power cord 1
 - User's Manual 1
 - Warranty Card 1
- Note: All other parts except above are not included.

Recommendation:

Keep all packing materials for future use and please fill in the warranty card for registration of warranty.

Note: Please make sure local voltage level is matched with the input level of the amplifier which indicates on the rear panel. Too low or too high voltage may cause problem and in case you've found improper voltage please contact our company or our local agent.

Product features

- 1、Purely handmade, the whole machine adopts scaffold welding
- 2、Using two high-quality, wide-frequency response and high-quality Japanese EI output transformers.
- 3、Use high-power Z11 iron core toroidal power transformer specially designed for this machine.
- 4、The front stage uses 5AR4 as the rectifier power supply.
- 5、The first stage uses two 12AU7 and 12AX7 vacuum tubes, and the latter stage uses four KT88 vacuum tubes as class AB power amplifiers.
- 6、Peripheral power tube adjustment knob and current display and dynamic output level UV meter.
- 7、Japanese ALPS volume potentiometer.
- 8、Soft Start and time-delay circuit. (30 seconds).
- 9、Infrared function remote control, easy to install plug-in vacuum tube protective cover.
- 10、Balanced input port.
- 11、Pure post-level merge selection operating mode.
- 12、It has the function of MM singing and playing.

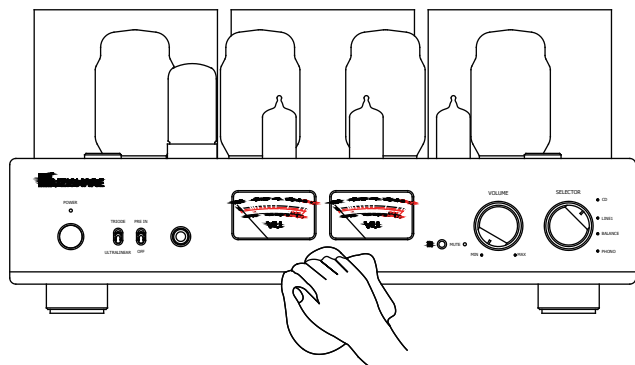
Troubleshooting

Please follow the instruction in the manual in order to keep the amplifier work in its best state. If wrongly operated and you thought that would be troubles please check according to following tips to look for the exact reason. Sometimes problems would be caused by the other related products and please have a check too on those connections. Even doing so, if the problem still exists please contact with your local agent or our company

Problem	Cause	Remedy
NO OUTPUT	Power cord is not well-connected	Please check the power cable connection or power outlet connection
	Power LED is OFF	Main fuse is out. Replace with the same type and value fuse
	Troubles of inner parts or components	Please contact with local agents or our company.
	Volume is at ZERO	Turn up the Volume
	Power LED is ON.	Check the function of the sound source
	NO signal input	Check the input selection and switch to the proper input.t.
Sound Distortion	High input signal level	Turn down the volume to suitable position
Noise output	Ground of input signal cable is open or bad contact of the input signal cable	Replace the input signal cable with a new one
	Components or circuits are in trouble	Please contact with local agents or our company.
Sound field Positioning is not so good.	Signal input cables or speaker cables are wrongly connected	Reconnect it as suggested in the manual
NO reaction to the remote	Disturbed by external instruments	Keep away from the disturbance and restart the amplifier.
	Battery is out of electricity	Replace the battery with new ones
	Obstacle is located between the remote and the amplifier	Remove the obstacle

Tube replacement

Clean the amplifier with soft dry cloth and please do not use any chemicals for cleaning.



Warranty Statement

- 1、 Limited Warranty: One-year limited warranty from the date of purchase except vacuum tubes which are warranted for six months.
- 2、 Limited to original purchaser. This warranty is for the sole benefit of the original purchaser of the covered product, and may not be transferred to a subsequent owner.
- 3、 Conditions & Limitations. This warranty is subject to conditions and limitations, as follows. This warranty is void and inapplicable if the product has not been used or handled other than in accordance with the instructions in the owner's manual, or if it has been misused, abused, damaged by accident or neglect, or in transport once in possession of purchaser, or the defect is due to the product being repaired or tampered with by anyone other than Zhuhai Muzishare Audio Representative.
- 4、 Remedy: If the product contains material, or manufacturing defects, it must be packed in original packaging and returned to Zhuhai Muzishare or an authorized Zhuhai Muzishare Representative at his or her sole expense. A returned product must be accompanied by a written description of the defect and the warranty card with dealer's stamp on which indicates the model and series number, the date of purchase, the name and address of the purchaser. an authorized Zhuhai Muzishare reserves the right to modify the design of the product and change the specifications without notice or obligation to any person.
- 5、 Miscellaneous. Any implied warranties relating to the above product shall be limited to duration of this warranty. This warranty does not extend to any incidental or consequential costs or damages to purchaser. Our liability will be no more than the amount you paid for the product that is the subject of a claim. This is the maximum amount for which we are responsible. This warranty gives you specific legal rights. You may also have other rights which vary from country to country, state to state.

Specification

Power output: 25W+25W (RMS Triode working status) 45W+45W (RMS Super linear working status)		THD: 1% (1kHz)
Frequency response: 15Hz~30kHz (−1.5dB)		S/N Ratio: 92dB A Weighted
Input Sensitivity: 280mV (0db) 520mV(prein)		Input Impedance: 100k Ω
Dimension (WxDxH): 410mm x 335mm x 198mm		Output Impedance: 4 Ω, 8 Ω
Tube Complement: 12AX7×1、12AU7×2、KT88×4、5AR4×1		Net Weight: 22.5kg
Power Requirements: ~115V/230V ± 5% (50Hz)		Power Consumption: 260W
Working Condition: Temperature: 0℃~40℃ Moisture: 20%~80%		
Storage Condition: Temperature: −20℃~70℃ Moisture: 20%~90%		

Note: Zhuhai Muzishare Audio Equipment Co., Ltd reserves the right to change specifications at any time without further notice in advance if products are upgraded. Specifications on the manual only show the specifications of the amplifier you bought.

Safety precautions

- 1、 Unplug the power cord if you are not going to use the product for an extended period of time.
- 2、 Temperature will become higher after working in long period of time and please keep the unit's ventilation open and install the amplifier at a well-ventilated place to avoid troubles and fire hazard.
- 3、 Operating this machine without load is forbidden.
- 4、 Misconnect is Forbidden .
- 5、 Do not attempt to service this product yourself. Opening the cover may expose you to dangerous voltage or other hazards.
- 6、 We are not responsible for any problems caused by checking and opening without permission of our company. For service, Please contact a qualified service technician.
- 7、 Do not place any objects filled with liquids such as vases or some others on the top or around.
- 8、 Clean only with dry cloth.
- 9、 Please move the amplifier carefully not to drop the unit or be subject to other strong shocks.
- 10、 Unplug the power cord if you are not going to use the product during thunderstorm.

Carefully read and follow the Manual for installation:

- 1、 Do not place the product near heat sources such as radiators, heat registers or other products that produce heat.
- 2、 In order to avoid being overheated please keep the unit's ventilation open.
- 3、 Do not expose this appliance to wet or dust environment.
- 4、 Amplifier should install steadily and make sure all four feet are on the same level.
- 5、 Keep the amplifier in a certain distance so that it can be easily connected.
- 6、 Keep the amplifier over 15CM's distance to the surrounding walls.

Safety precautions



.To reduce the risk of electric shock, do not remove the cover.
 .Any repairment must be offered by qualified servicemen.
 .To avoid the risk of fire or electronic shock, do not expose the unit to wet.



The lightning flash symbol alerts users the presence of dangerous voltage.



The exclamation mark alerts the user the presence of important operating and maintenance instructions.

Note: Input voltage level of the amplifier is 230VAC $\sim \pm 5\%$ and please make sure that the supply voltage is proper. Too low or too high voltage may cause problem or reduce its life. To ensure the safe use of it, the altitude more than 2000m is not recommended. To ensure the safe use of it, the tropical weather is not recommended.



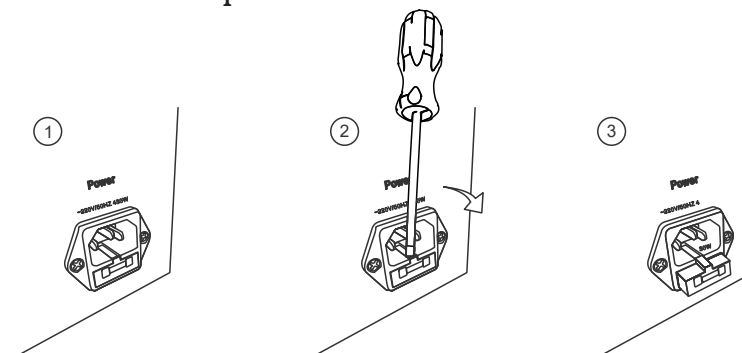
Functions Description

Tube Basics	Common Replacements
12AX7	12AX7EH、ECC83、E83CC、CV4004、ECC803、5751
12AU7	12AU7EH、ECC82、5814、6189、CV4003
KT88	KT88EH、6550EH、6550、6550A
5AR4	GZ34

- Note: 1、 It is normal that power transformer becomes hot for extended period of operation.
 2、 Please unplug the power cord if you're not going to use the product for an extended period of time.
 3、 Please do not insert the power cord into the mains socket only if all other instruments are well connected
 4、 To prevent damage to the amplifier never cut off the speaker cables while the unit is ON.
 5、 In order to protect the tubes, please switch on the amplifier again after two minutes.

Warning: Please make sure corresponding voltage is the same as required.
 We are not responsible for damage caused by misuse of unsuitable voltage.

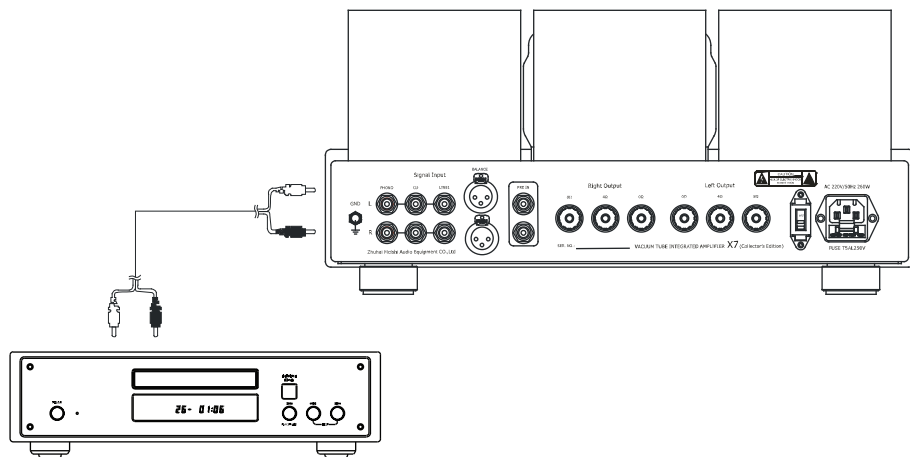
Instructions on Fuse Replacement:



1. You will find the Power socket with main fuse on the rear panel. Above is the picture for your reference. In the Power socket there is a fuse holder where is the fuse located.

2. As for the fuse holder there is a groove on the top. Please use a screwdriver and put into the groove. Pull out the fuse holder following the direction as shown in above picture.

3. Take out the old fuse and replace with the same type and value of fuse.



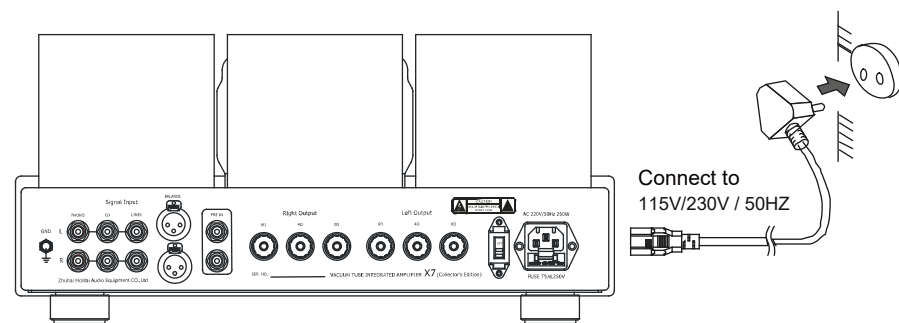
Audio Connection

Here is the standard way of connection for X7 with other audio equipments.
Please take pictures below for your reference:

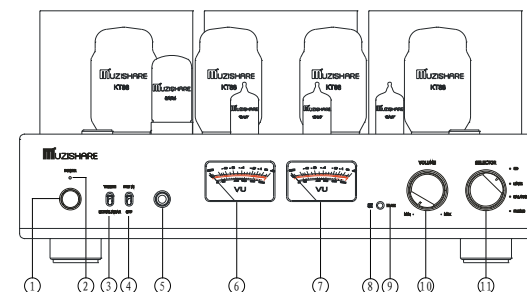
Suggestions:

1. During installation please always refer to other products' operation manuals.
2. Please do not insert the power cord into the main socket only if all other instruments are well connected.
3. R refers to right channel while L represents left channel.
4. Please follow guidance to connection as wrong connection may cause noise or low grade function.
5. Do not fasten signal cables together with other cables to avoid disturbance.

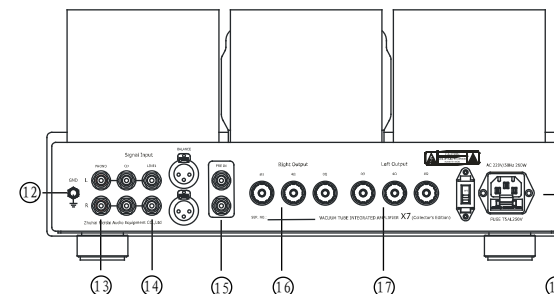
Turning ON



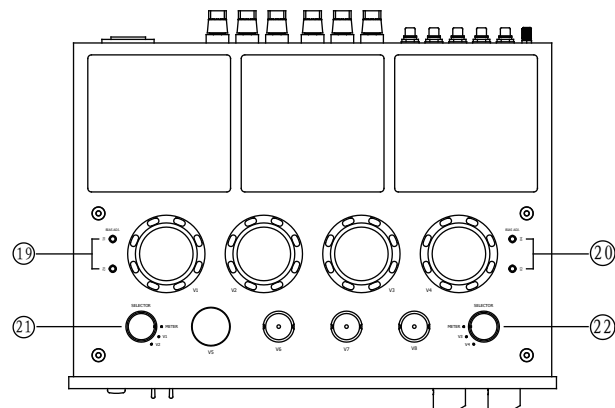
Functions Description



1. Switch
2. Power Indicator
3. Triode/super linear working state button (TR/UL); Used to select the working state of the triode or super linear working state.
4. PRE IN input control switch, dial the switch upwards, the sound source is connected to PRE IN, and vice versa. Input function.
5. Headphone jack
6. V1 working current/Left channel UV level display.
7. The function is the same as 6.
8. Remote control receiving window: Use to receive infrared remote control transmitter commands.
9. Working status indicator: It is used to indicate the working status of the working power amplifier. It is orange during normal operation, and the indicator light will flash for 30s when it is just turned on. The indicator will flash when mute, until the mute state is exited.
10. Volume control knob: The knob can control the volume of the sound.
11. Input selector knob: Use to select input (CD/LINE 1/BALANCE or PHONO) sound source.



12. Ground Inputs: Use with vinyl record player.
13. Signal Inputs: Vinyl phono input terminal.
14. Signal Inputs: RCA terminal, balanced input terminal.
15. Pure post-function input.
16. Right Channel output: used to connect with the right channel of the speakers.
17. Left Channel output: used to connect with the left channel of the speakers.
18. Power input socket, Fuse Holder: AC 115V/230V ~ Power input here.

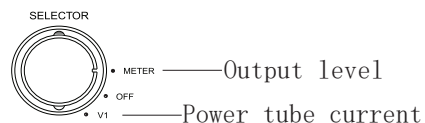
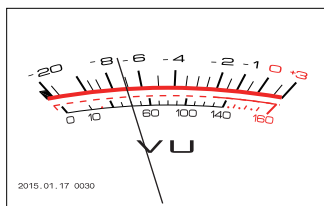


V1 V2 V3 V4:KT88 tube V5 :5AR4 tube V6 V8:12AU7 tube V7:12AX7 tube

- 19、 Adjustable resistance is used to adjust the current of V1, V2 (BIAS ADJ.) power tube (KT88).
- 20、 Adjustable resistance is used to adjust the current of V3, V4 (BIAS ADJ.) power tube (KT88).
- 21、 V1 power tube current/output level selection switch
- 22、 V2 power tube current/output level selection switch

V1、 V2、 V3、 V4 power tube (KT88) current adjustment method:

After you confirm that the power switch of the amplifier is in the ON position, wait about 10 minutes, The power tube selector switch selects the V1 gear, adjusts the adjustable resistance of V1 (BIAS ADJ.), and observes the V1 working current display screen, The pointer is in the best position (40mA) as shown in the figure below.



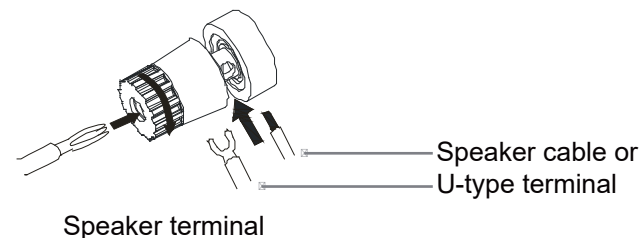
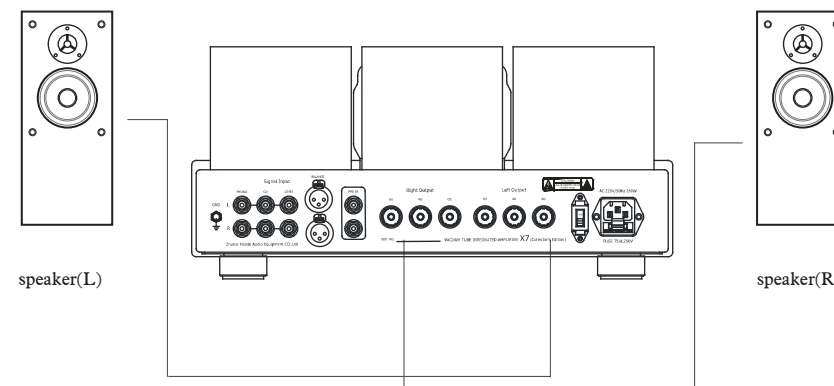
Repeat the above steps for the V2、 V3、 V4 tube. Adjust the adjustable resistance corresponding to each tube to make the bias current of the V1、 V2、 V3、 V4 tube consistent. In order to make the machine work in the best state, it is recommended to use about 150 hours, and test the working state of the power tube according to the above method.

- Note: 1. The surface temperature of the power tube is very high during work, so be careful of burns.
- 2、 Power tubes should be used in pairs.

Connection

Speaker Connection

Connect the speaker to the terminal on the back of the main unit (as the picture shows) the negative to the 0 ohm terminals separately. 4 ohm、 8 ohm impedance speakers are preferential and if your speakers are 6 ohm it would not cause damage to the amplifier and experience using 4ohm、 8 ohm positive terminal to find which the best for your speakers. Please take the right guidance for connection and do not mixas wrong connection may cause noise or low grade function.



Make sure that no wires are not insulated can bypass the speaker outputs. Make sure that the speaker terminals are tight enough to ensure a good electrical connection. If the terminal screws are not tight enough, the sound quality may be affected.

use only dedicated wire to the speaker (a section of 1.5 mm² or more is recommended especially if the cable length longer than 3m).