



X7

INTEGRATED VACUUM TUBE AMPLIFIER

OPERATION MANUAL

Thanks for choosing our Muzishare products !

www.China-hifi-Audio.com

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Thanks for choosing our Muzishare X7 Integrated Amplifier as an important part of your music system.

Please read this manual carefully before installation and operation.

In order to prevent damage during transportation, the amplifier and its tubes are packed with protective foam, please remove these foam pieces before operating your amplifier to avoid any risks !

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Suggestions:

The X7 integrated amplifier is designed and manufactured with our original parts for reaching the best results. We are not responsible for problems and damages caused to the amplifier by non-original replacement parts.

Package Contents

Please check the cartonbox carefully for any damage before opening it.

- Muzishare X7 ——— 1;
- Main Fuses ——— 2;
- Power cord ——— 1;
- Remote control ——— 1;
- 1.5V Batteries (AAA) ——— 2;
- 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 that your local voltage is the same as indicated on the rearpanel. A too low or too high voltage can cause serious damage to your amplifier ! In case you find an improper voltage, please contact our company or your local dealer,

Product Features

- Hand-made construction with the finest point-to-point wiring.
- Specially designed Z11 transformer for power supply.
- Two EI output transformers with wide bandwidth are applied.
- One 12AX7 and two 12AU7s are used in the preamp stage. Four KT88 tubes are used for AB1 push-pull amplification.
- High power toroid power transformer with Z11 core has been specially designed for the amplifier.
- Voltage amplification and drive stage have taken 5AR4 for tube rectifier power supply.
- Can work as a Power amplifier with separate Pre-In inputs.
- Can work as a Phono Amplifier. You can connect the amplifier with your turntable and enjoy the classic music.
- Triode and ultralinear selection.
- Softstart and time-delay circuit. (30 seconds)
- ALPS volume control and realcap capacitors are applied.
- Remote control for all functions.
- User bias control is accessible on top of the amplifiers panel with true ampere.

Specification

Power output: 25W+25W (RMS Triode operation) 45W+45W (RMS Ultralinear operation)
THD: 1% (1kHz) Frequency response: 15Hz~30kHz (-1.5dB)
Input Sensitivity: 280mV, 520mV(pre in) Input Impedance: 100k Ω
S/N Ratio: 92dB Output Impedance: 4 Ω , 8 Ω
Net Weight: 22.5kg Power Consumption: 260W
Left Output and Right Output Balance.: <0.5db
Tube Complement: 12AX7 \times 1, 12AU7 \times 2, KT88 \times 4, 5UR4 \times 1
Dimension (W \times D \times H): 410mm x 335mm x 198mm
Power Requirements: \sim 230V/115V \pm 5% (50Hz)
Working Condition: Temperature: 0 $^{\circ}$ C \sim 40 $^{\circ}$ C Moisture: 20% \sim 80%
Storage Condition: Temperature: -20 $^{\circ}$ C \sim 70 $^{\circ}$ C Moisture: 20% \sim 90%

Note: Muzishare 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.

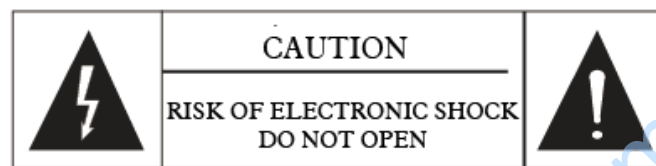
Safety Precautions

- Unplug the power cord if you are not going to use the product for an extended period of time.
- 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.
- Forbidden to operate as unloaded.
- Forbidden to operate when the output is open or shorted.
- Do not attempt to service this product yourself. Opening the cover may expose you to dangerous voltage or other hazards.
- 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.
- Do not place any objects filled with liquids such as vases or some others on the top or around.
- Clean only with dry cloth.
- Please move the amplifier carefully not to drop the unit or be subject to other strong shocks.
- Unplug the power cord if you are not going to use the product during thunderstorm.

Safety Precautions

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 rain or moisture.
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 in 15CM's distance to the surrounding walls.



- To reduce the risk of electric shock, do not remove the cover.
- No user serviceable parts inside. Refer servicing to qualified service personnel.
- To reduce the risk of fire or electronic shock, do not expose the unit to rain or moisture.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert users to the presence of uninsulated “dangerous voltage” within the product's enclosure that may be of sufficient magnitude a risk shock to persons.



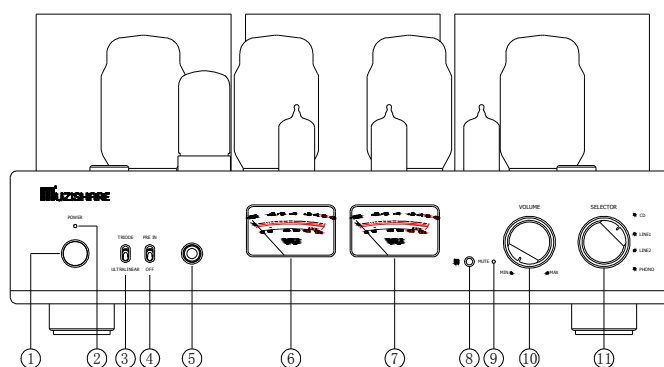
The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Note: Input voltage level of the amplifier is $\sim 230V/115V \pm 5\%$ and please make sure that the supply voltage is proper. Too low or too high voltage may cause problem or reduce its life.

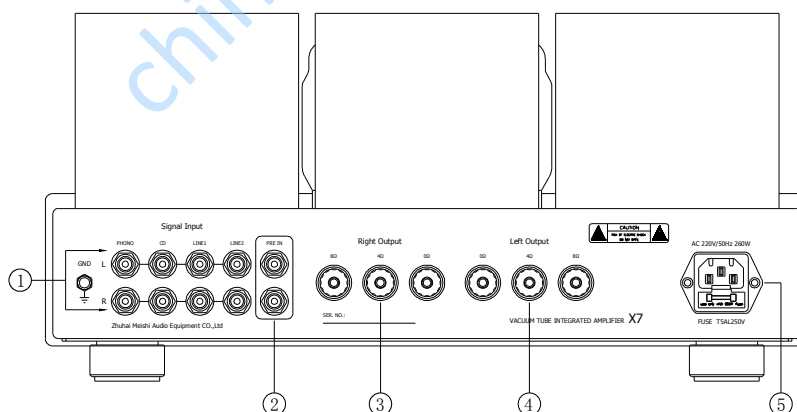
Tube Replacement

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

Functions Description

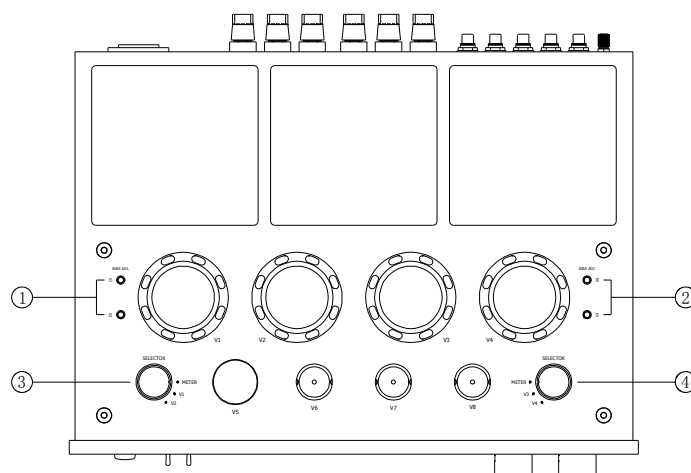


1. ON/OFF: Turn on or turn off the amplifier.
2. Indicator for ON/OFF.
3. Triode/Ultralinear(TR/UL): Switch between Triode and Ultralinear operation state.
4. PRE IN Input Switch: Switch on or off the Pre-In function. Once switched on the amplifier can work as a power amplifier.
5. Headphone Socket: Use headphone to listen music
6. Ampere Meter: Monitor the currency of the power tubes.
7. Ampere Meter: Monitor the currency of the power tubes.
8. IR Remote Sensor: React according to the orders of the remote.
9. Indicator for Operation/Mute: Indicate the state of the amplifier. Orange means operation and if turning on it will twinkle for 30 seconds during the time delay. If it is muted the indicator will twinkle too.
10. Volume Knob: Volume up to the right while volume down to the left.
11. Selector: Source selection among CD, LINE1, LINE2, and LINE3 Inputs.



1. Signal Inputs: used for source input.
2. Pre-In Input Terminal.
3. Right Channel output: used to connect with the right channel of the speakers.
4. Left Channel output: used to connect with the left channel of the speakers.
5. Power Socket with main fuse: Main fuse is located on the rear of the amplifier just below the power cord socket. Replace with the same type and value fuse

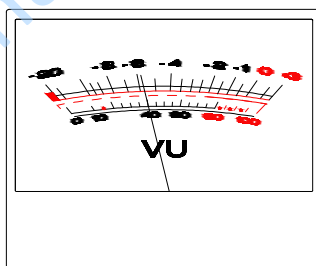
Functions Description



1. Used for adjusting the bias of V1 and V2 KT88 Power tube.
2. Used for adjusting the bias of V3 and V4 KT88 Power tube.
3. Meter Switch: Meter for monitoring the power output of the Left Channel. V1/V2 Switch: Meter for monitoring the V1/V2 KT88 bias level.
4. Meter Switch: Meter for monitoring the power output of the Right Channel. V3/V4 Switch: Meter for monitoring the V3/V4 KT88 bias level.

Bias Adjustment for V1, V2, V3, V4 Power Tube (KT88):

Turn on the amplifier and wait for around ten minutes. Choose and turn the Bias Current selector from its “OFF” position to V1. Turn down V1 BIAS ADJ. to its MIN. position first and then adjust the bias current. Inspect the ampere meter on the front panel and make sure the pointer is at the position showed as in the pictures below (about 40 mA). If you have any questions please contact with our company or local service agent.



Bias current adjustment for V2, V3, and V4 are the same as for V1. Please adjust the corresponding BIAS ADJ. and make sure all the bias level of V1, V2, V3 and V4 are the same. In order to make sure the amplifier can work at its best condition please adjust the bias and test the operation state of the power tubes as the way suggested as above after using for around 150 hours. Note: Please test without signal input. Please do not open the bottom and adjust the adjustable resistor by yourself.

V5: Tube 5AR4

V6、V8: Tube 12AU7

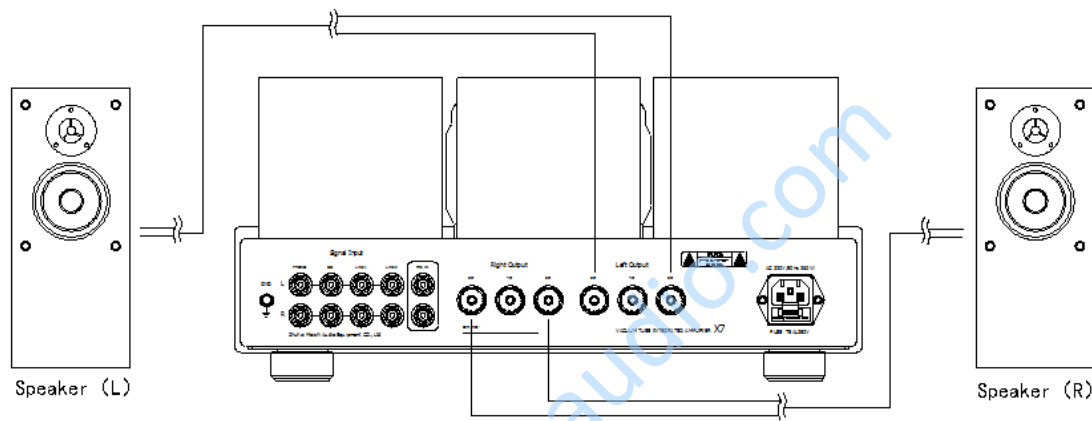
V7: Tube 12AX7

- Note:**
1. Be careful of the high temperature of the tubes during operation.
 2. Power tubes must be matched ones for well function.

Connection

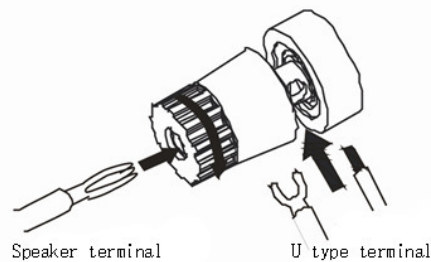
Speaker Connection

Check the impedance of your speakers. Attach the positive (+) side of your speaker cable to the 4 or 8 Ohm terminal and the negative (-) side to the 0 Ohm terminal. If your speakers are 6 Ohm or other please experiment with the 4 or 8 Ohm terminal to get the best result from your speakers. Please take care of the right channel connections, don't mix them up as this will cause noise and bad stereo imaging.



How to connect the speaker cables:

1. Unscrew the terminal knobs,
2. Insert the speaker cables,
3. Screw the terminal knobs.

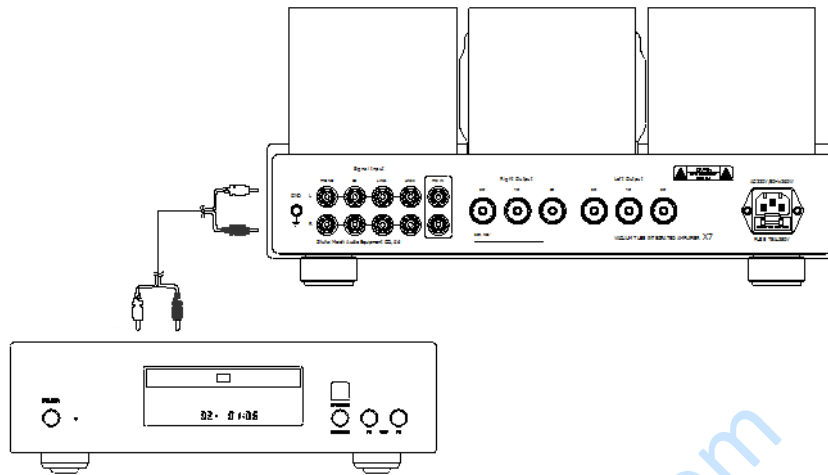


Note:

Connect the speaker cables with the amplifier after it is well connected with the speakers. Please notice the right direction indication of the cable and do not mix up the positive and the negative end.

Audio Connection

Connection method of X7 with other audio equipments, take pictures below for your reference:



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

Turning ON

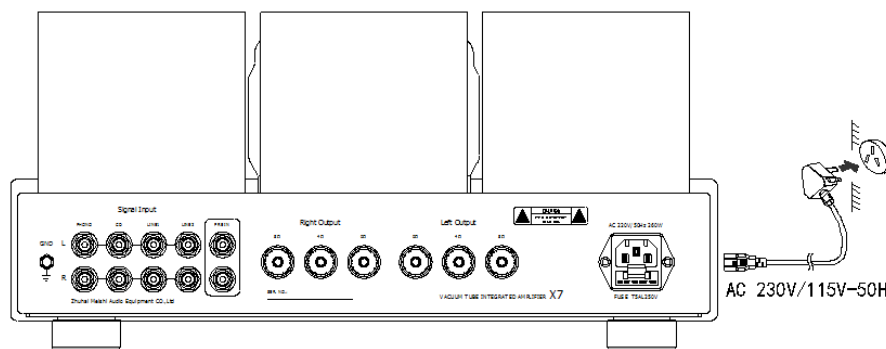
Before turning on the amplifier please make sure all connections are right and power supply is stable.

1. Turn on the amplifier and the power LED will be on. It shines indicating that the amplifier is working.
2. In 30 seconds the power LED will keep lighting up. It means the amplifier functions very well. Or if the LED is not
3. on please contact with our local agent or our company.
4. Select the right sound source, adjust the volume to a certain position and then you can enjoy the music you prefer.

Precautions:

Connection of the power cord:

Connect the speaker cables and signal cables first and then plug the power cord into the power socket.

**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 re-switch on the amplifier after turned off in 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.

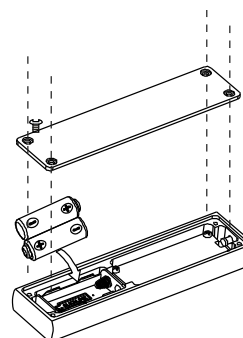
Remote Control

Installation:

1. Remove the screws of the remotes backcover.
2. Insert two AAA batteries , please check the indicators giving for the correct positioning.
3. Re-assemble the remote.

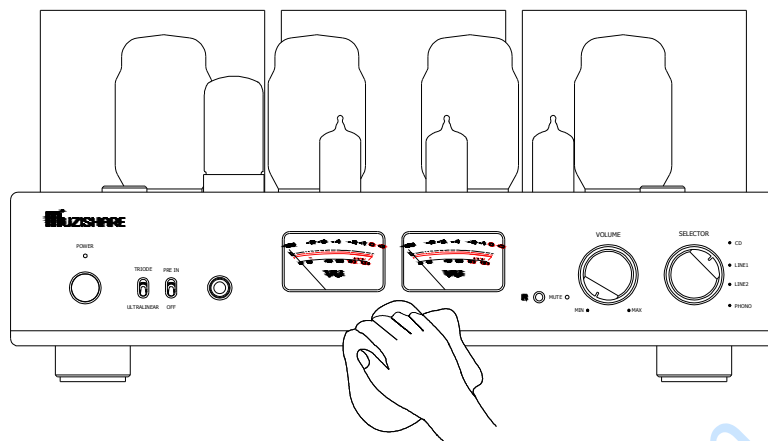
Replacement:

1. When the batteries are low , please replace them with new ones.
2. Two pieces of AAA batteries are used.
3. Do not mix the new batteries with old ones.
4. Please use high quality battery , these can prevent leakage of electrolyte.



Maintenance

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



Warranty Statement

Terms & Conditions:

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 Muzishare factory.
4. Remedy: If the product contains material, or manufacturing defects, it must be packed in original packaging and returned to Muzishare factory at his or her sole expense. A returned product must be accompanied by a written description of the defect and the warranty card with an authorized dealer's stamp on which indicates the model and series number, the date of purchase, the name and address of the purchaser. Muzishare factory 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.

Troubleshooting

Please follow the instructions in this manual to keep the amplifier working in a reliable and safe manner. If problems arise or you think there is a problem, please first check the tips given below to check for the exact reason. Sometimes problems could be caused by other related equipment, please check the connections. After doing so and the problem still exists, please contact our factory or your local dealer.

Problem		Cause	Remedy
NO OUTPUT	Power LED is OFF.	Power cord is not well-connected	Please check the power cable connection or power outlet connection
		Main fuse is out.	Replace with the same type and value fuse
		Troubles of inner parts or components	Please contact your local agents or our factory
	Power LED is ON.	Volume is at ZERO	Turn up the Volume
		NO signal input	Check the function of the sound source
			Check the input connectors and/or switch to the proper input
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 dealer or our factory	
Stereo image 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 low	Please replace the bateries	
	Obstacle is located between the remote and the amplifier	Remove the obstacle	