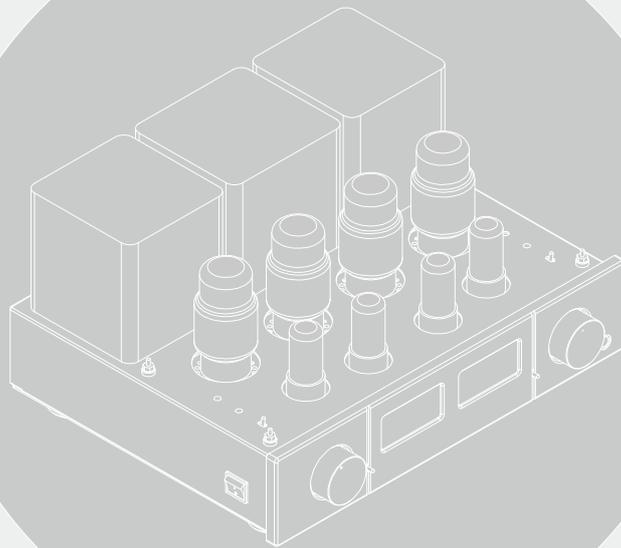


Oilily

VACUUM TUBE INTEGRATED AMPLIFIER



A88 MK

The product usage manual

Thank you for purchasing your brand new Oilily A88 MK Integrated Amplifier . This product is shipped to you with foam cushioning protecting all vacuum tubes to prevent damage during transportation . Note that there may be foam under the tube protection cage and / or individually packaged tubes and that all foam must be removed and all tubes installed before applying power to this amplifier . Failure to remove all foam and / or other packaging may result in damage to amplifier or fire !

Please read this manual carefully prior to use of this product !

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Introduction

Thank you very much for purchasing the A88 MK Stereo Vacuum Tube Integrated Amplifier .
In order to better enjoy this sound system , please read this instruction manual carefully before using .

Unpacking

Before unpacking , please check the box for any damage or moisture and put the box in the upward direction of the arrow . Open the box and check and confirm the items below .

- A88 MK Integrated vacuum tube amplifier ·
- Two spare fuses ·
- One power cord ·
- Product instruction / usage manual
- Remote control (2pcs of AAA batteries are not included)

Recommendation : Keep all packaging materials , and you may need to repackage them when moving . Note : Parts other than the list are not included

Preface

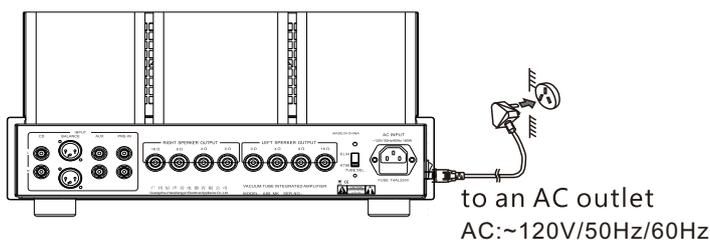
Notes on Operation

- Moving the amplifier :
To avoid short circuit or damage unplug all power cables and disconnect the signal and speaker cables from all other audio equipment when moving
- Before turning on the power :
Check again that all connections are correct and that there are no problems with the signal and speaker cables
Before connecting and disconnecting cables , make sure the power switch is set to the off position
- Please keep the instructions in a safe place
After reading this manual , please keep it with the warranty card in a safe place.
- For ease of explanation , the illustrations in these operating instructions may differ from the actual equipment .

Power Supply Precautions

AC power cord connection

After connecting the speakers and audio source , connect the amplifier AC power .



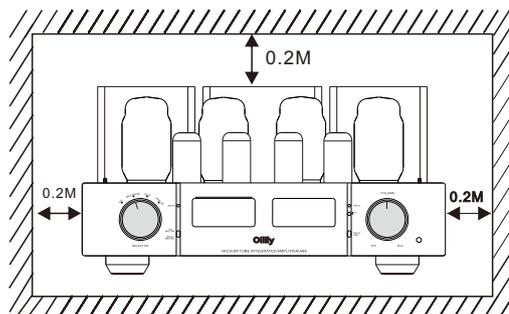
- ◆ The power can be turned on after the connection of various equipment and speakers is completed.
- ◆ If this unit is used for a long period of time , the power transformer will heat up , this is normal.
- ◆ If you do not use the unit for a long time , unplug the power cord . The voltage used by this machine must be in accordance with the regulations , and the company will not be responsible for any fire or other accidents caused by using voltages other than those specified.

Vacuum Tube Replacement Table

VACUUM TUBE FOR THIS MODEL	Replaceable vacuum tube
6SL7	6SL7GT 6H9C ECC35 Cv569 6N9P 5691
6SN7	6SN7GT 6H8C ECC32 ECC33 6N8P 5692
KT88	Kt90 Kt88 6550 6550A 6550EH
EL34	EL34EH 6CA7

Installation Precautions

- ◆ Do not place the unit in a place where it can be directly exposed to sunlight or near other heat sources
- ◆ To prevent overheating , make sure that the amplifier cooling holes are not covered by other objects
- ◆ Keep away from all moisture and avoid accumulation of dust
- ◆ When placing the machine , ensure that it is easily connected to the power supply and other related equipment .
- ◆ The machine should be supported so that the four feet are evenly stressed .
- ◆ Do not place in an audio cabinet where there is a not enough space above and below which will hinder heat dissipation . To ensure proper heat dissipation , please keep the unit at least 8 inches away from all obstructions as shown below .



DO NOT touch hot parts during or after use !

During and / or immediately after use , areas other than the unit ' s controls and rear panel connection jacks can become very hot . Do not touch hot parts , especially the top cover .
Avoid getting burns !

Features

- ◆ Pure vacuum tube design , hand - made , using point - to - point welding / soldering .
- ◆ Uses custom power transformers specially developed for this device .
- ◆ The output stage uses two high - quality EI - type output transformers .
- ◆ The voltage amplification stage and the boost stage use two 6SL7 and 6SN7 vacuum tubes respectively .
- ◆ Four Noble Voice original paired KT88/6550/EL34 vacuum tubes are used for AB1 class push - pull power amplification unless upgraded during purchase .
- ◆ Offers triode and super - linear mode selection . In Triode mode , the sound is soft , pure and smooth , suitable for listening to vocals , string music and other types of music . In super - linear mode , the sound is open , unrestrained , with good momentum , suitable for enjoying a large soundstage , big dynamics and other energetic types of music .
- ◆ External Bias Adjustments Current Meter . Easy adjustment and monitoring of bias maintain the best state of the output power vacuum tube at all times .
- ◆ External EL34/KT88 tube selection function , easy to replace different models for endless tube - rolling fun .
- ◆ Infrared full - function remote control .
- ◆ Uses thick gold - plated signal leads .
- ◆ Pre - Amplifier input function . Can be connected to external pre - amplifier .
- ◆ Start - up protection mute delay function (about 30 seconds) .
- ◆ Japanese ALPS motor potentiometer remote volume control .
- ◆ Easy to install vacuum tube protective cove .

Safety Precautions

- 1.If the machine will not be used for a long time , unplug the power plug from the AC outlet .
- 2.When the machine is powered on for a long time , the surface temperature is high .
- 3.Do not block the ventilation holes and do place the machine in a well - ventilated place .
Poor ventilation may cause excessive temperature inside the machine , which may cause malfunction or fire .
4. The speaker output terminals of this amplifier must not be allowed to short circuit in order to avoid damaging the device .
5. Do not attempt any internal maintenance or adjustments . Do not touch any internal components . Severe risk of damage the mechanism or electric shock .
6. The amplifier must be kept away from all condensing , dripping , or splashing water .
7. Do not place objects filled with liquids , such as vases , anywhere near the amplifier to avoid electric shock or damage to the product .
8. Clean the amplifier with a soft cloth at regular intervals . Avoid using any kind of thinner , alcohol , solvent , or other volatile liquids to clean .
9. Because they can damage and cause marks to the finish , do not use any pesticides or other sprays on or near the amplifier .
- 10.Handle with extreme care during transportation to avoid damaging the amplifier .-3

Other

Technical Parameters

【FTC Rated output power】 :

16W+16W(RMS triode working state).30W+30W(RMS ultra - linear working state)
(8Ω,20Hz-20KHz,THD.1%).(Kt88) (8Ω,20Hz-20KHz,THD.1%).(Kt88)

12W+12W(RMS triode working state).28W+28W(RMS ultra - linear working state).
(8Ω,20Hz-20KHz,THD.1%).(EI34) (8Ω,20Hz-20KHz,THD.1%).(EI34)

【Rated output power】 :

25W+25W(RMS triode working state).45W+45W(RMS ultra - linear working state).(Kt88)

25W+25W(RMS triode working state).40W+40W(RMS ultra - linear working state).(EI34)

【 Frequency response 】 : 10Hz~40kHz(+/-0.5db)

【 Total harmonic distortion 】 : 1%(1W/1 kHz)(Rated output power 5%)

【 Signal to noise ratio 】 : 91dB

【 Input sensitivity 】 : 380mv(Integrated input)

820mv(Power input)

【 Input resistance 】 : 100KΩ

【 Output impedance 】 : 4Ω , 8Ω , 16Ω

【 Headphone amp output impedance 】 : 8Ω~300Ω

【 Voltage 】 : ~120V±10%(50Hz/60Hz)~240V±10%(50Hz/60Hz)

【 Dimensions 】 : 410mm*225mm*370mm(W * H * D)

【 Vacuum tubes 】 : 6SL7*2,6SN7*2, (EL34/KT88/EH6550)*4

【 Power consumption 】 : 180W

【 Net weight 】 : 25kg/55lbs

【 Working conditions 】 : Temperature : 0° C /32°F ~40°C/100°F

Humidity :20%~80%

【 Storage conditions 】 : Temperature :-20°C/0°F ~70°C/160° F

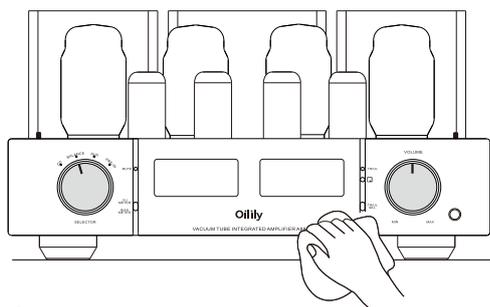
Humidity :20%~90%

Due to continuous product improvement , specifications and functions are subject to change without notice .

Equipment surface cleaning and maintenance

With proper care and cleaning , your equipment ' s surface coating can be maintained for a long time . Do not use scrub pads , steel wool , cleaning powder , or strong chemicals such as lye , alcohol , thinners , benzenes , pesticides , or other volatile substances that can damage the surface coating of the device . Do not use cloths that contain chemical ingredients

If the device becomes dirty , wipe the surface with a damp soft cotton cloth



Service

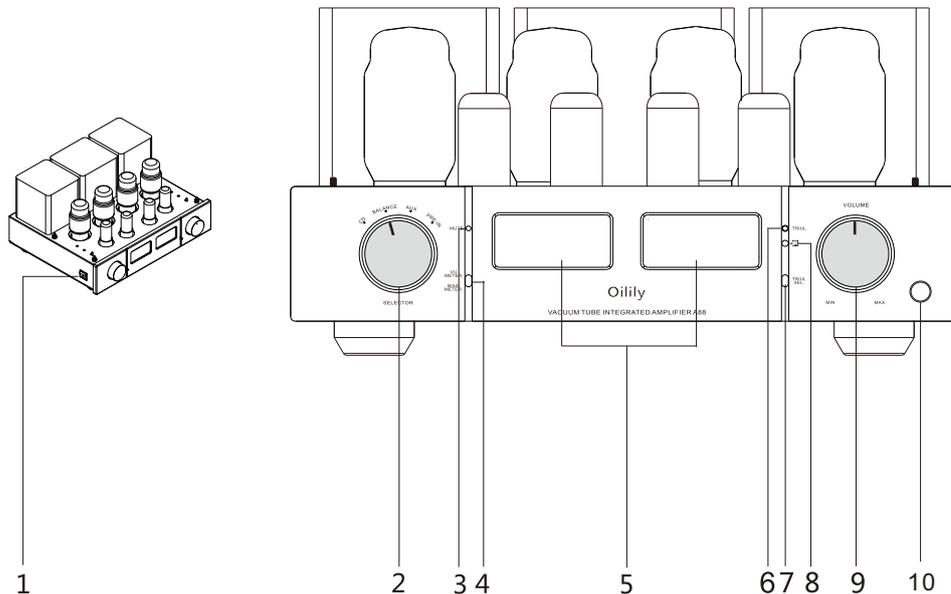
1. This product is warranted for one year .
2. For the warranty to take effect , the customer must submit the completed warranty card to the dealer within ten days of purchasing the machine .
3. During the warranty period , the company guarantees the repair of quality problems that occur under normal use of the product , provided that the product is approved for repair and shipped to the warranty service center
4. If you do open the machine without our permission , the warranty commitment will be invalidated .

Important hint :

If the product numbers on the product box , case , and warranty card are inconsistent , altered or missing the Product / serial number , or lack the warranty card , you will not be able to enjoy normal after - sales service

Parts Names and Functions

Front Panel Description



1. Power switch knob .

Used to turn the power on and off . When not using the machine for a long time , turn off the power switch .

2. Signal input election switch

When the CD indicator is selected , you can listen to the sound played of CD player.

When the BALANCE indicator is selected , you can listen to the sound played by BALANCE.

When the AUX indicator is selected , you can listen to the sound played by the AUX .

When the PRE-IN indicator is selected , you can listen to the sound played by the PRE-IN .

3. Working status indicator / mute indicator

Indicate the working status of the power amplifier. The indicator light is green during normal operation , and the indicator light is red for about 30 seconds during power - up protection delay .

The light is also red when muted.

4. Double head toggle switch.

When the small fader is pushed up , the level meter is open . When it pressed down , the level meter used to momitor the working current of KT88/EL34 tube.

5. Dual meter display

Used to display amplifier level and current .

6. Triode/ Ultra - Linear Modestatus indicator

When the green light , it is in Triode mode.

When it is red , it is in Ultra - Linear working mode.

7. Triode/ Ultra - Linear mode button (TR / UL)

Used to select the working mode of Triode or Ultra - Linear . Default mode Triode (green LED) .

8. Remote control receiving window

Used to receive commands from an infrared remote transmitter.

9. Volume control knob

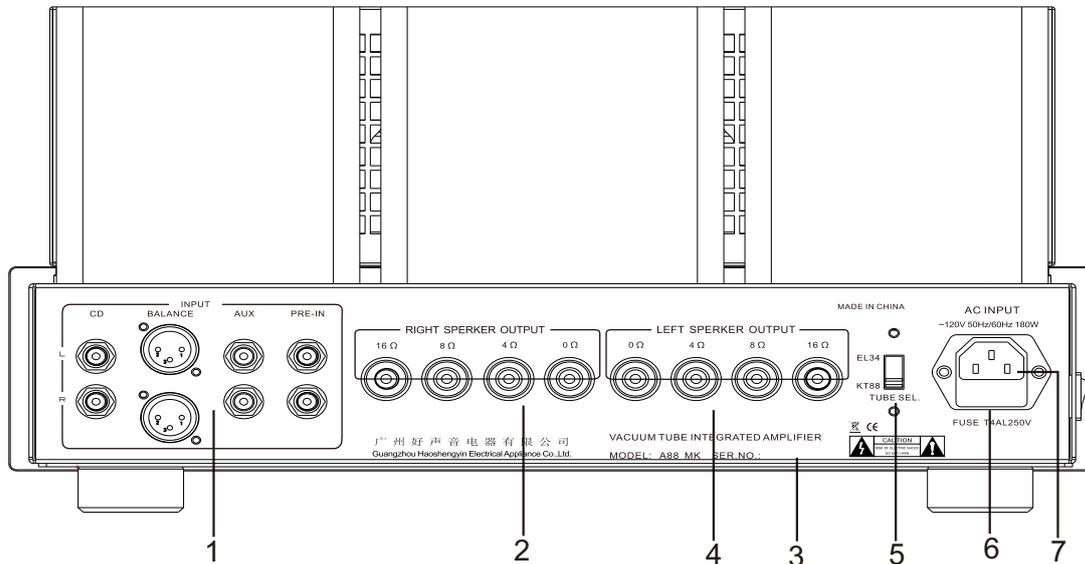
This knob controls the volume of the sound .

Rotate the volume in a clockwise direction to gradually increase the volume , and decrease the volume in a counterclockwise direction.

10. Headphone port output

Used to connect headphones with a 6.5mm jack , when plugged into the headphone port , the speaker output is automatically disconnected .

Rear Panel Function Description



1. Signal input terminals

Connect various audio source devices with line level outputs or from preamplifier to Pre - In .

2. Right channel speaker output terminals

Connect the right channel speaker to these terminals . See speaker connection diagram on page 10.

3. Machine serial number

Please record your machine serial number on the product warranty card .

How to replace the vacuum tube

1.Refer to page 2(Common Vacuum Tube Replacement Table) to check the vacuum tube model and vacuum tube replacement model used by this machine .

2. For KT88 series tube replacement , you need to turn Figure 5(tube selection switch) in the figure to the position of KT88. Refer to page 7 for the adjustment method .

3.ForEL34 series tube replacement , you need to turn the figure 5(tube selection switch) in the figure to the EL34 position . Refer to page 7 for the adjustment method .

Important Notes :

* The surface of all tube can very hot during use . Please be cautious of burns .

4. Left channel speaker output terminals

Connect the left channel speaker to these terminals . See speaker connection diagram on page 10.

5. Tube selection switch

For selecting between EL34 or KT88 output tubes You Must Select Correct Tube Type to Avoid Damaging Your Equipment !

6. FUSE

If you need to replace the fuse , please use the same specification fuse .

7. Power input socket

AC Power Connection .

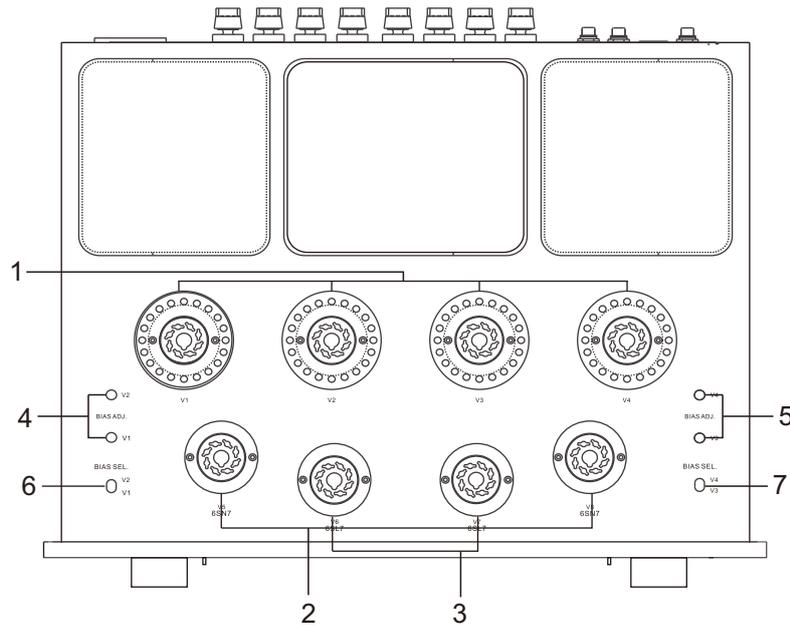
* When replacing the tubes , after the amplifier should turned off for 20 minutes to properly cool . Please hold only the base of the tube and pull vertically to prevent the tube key from breaking . **Note that the positioning key of the socket corresponds to the positioning pin key of the tube !**

* Power tubes should only be used in matching pairs .

* When adjusting the tube bias , it is strictly forbidden that the needle of the power tube bias meter deviates from the dial be .

* When the machine is operating normally , the value of the power tube bias meter will change with the corresponding fluctuation of the mains voltage and therefore may require readjustment of output tube bias settings . This is normal .

Top Panel Function Description



1. V1、V2、V3、V4:KT88/EL34 Vacuum tubes

When using Kt88 tubes , the rear panel switch is set to the KT88 position . When using EL34 the EI34 position is selected .

2. V5、V8:6SN7 Vacuum tube

3. V6、V7:6SL7 Vacuum tube

4. Power tube (V1、V2) Bias adjustment knob

Used to adjust the corresponding power amplifier tube (V1,V2) bias

5. Power tube adjustment knob

Used to adjust the corresponding power amplifier tube (V3,V4) bias

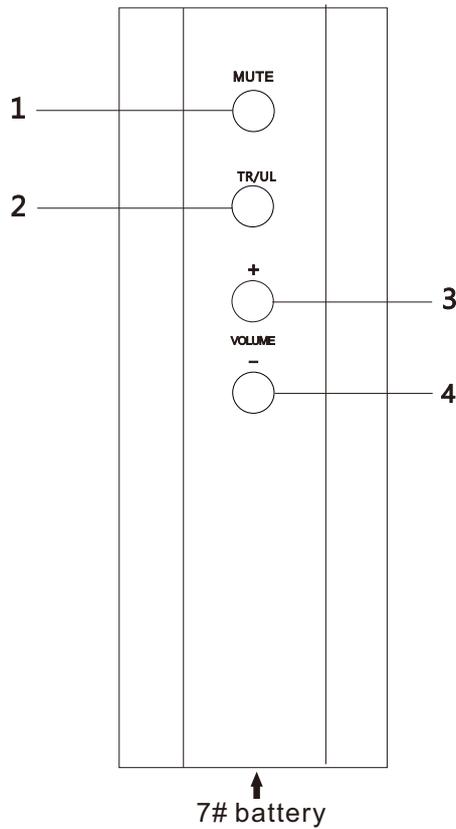
6. Power tube (V1,V2) bias selection switch

Used to select the corresponding power amplifier tube for bias adjustment .

7. Power tube (V3,V4) bias selection switch

Used to select the corresponding power amplifier tube for bias adjustment .

Remote Control Functions



1.[MUTE] Mute button

2.[TR / UL] Triode / Ultra - Linear Connection button

3.[VOLUME] VOLUME UP "+" button

4.[VOLUME] VOLUME DOWN "-" button

Install the batteries :

1. Use a Phillips screwdriver to remove the screws on the bottom of the remote .

2. Gently pull the battery holder out of the case (Do not use pull too hard or too far to prevent the circuit board from being pulled out)

3. Please insert batteries into the holder according to the battery compartment (+).(-) instructions .

4. Carefully reinsert the battery holder back into the case , replace the back cover , and reinstall the screws .

Remote Usage Notes :

* Avoid dropping or getting wet

* The battery life is about one year , and the battery should be replaced in time when the battery capacity is insufficient

* Please do not mix new and old batteries or different types of batteries

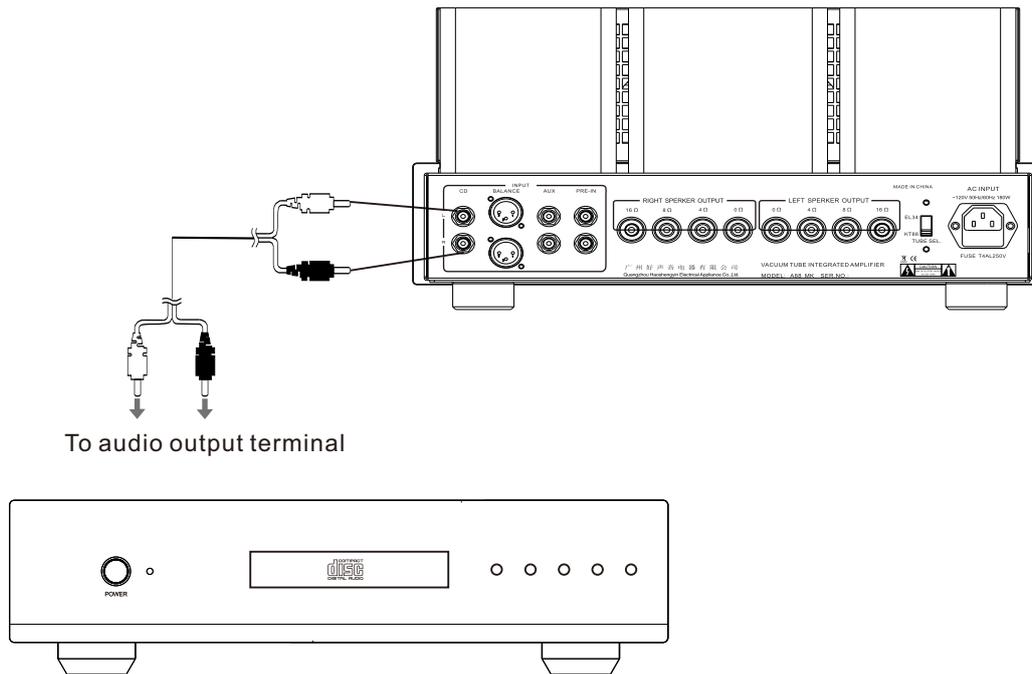
* When not in use for a long time , please take out the batteries to prevent leakage caused by failure

* We recommend using high quality high energy battery

Connections

Audio Connections

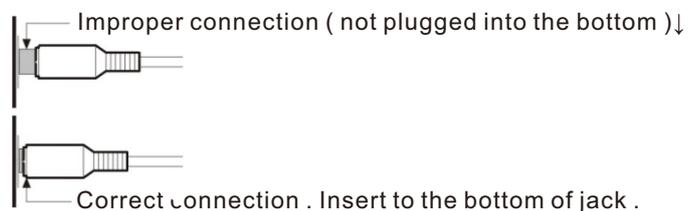
Here is the standard way to connect the main equipment to the A88



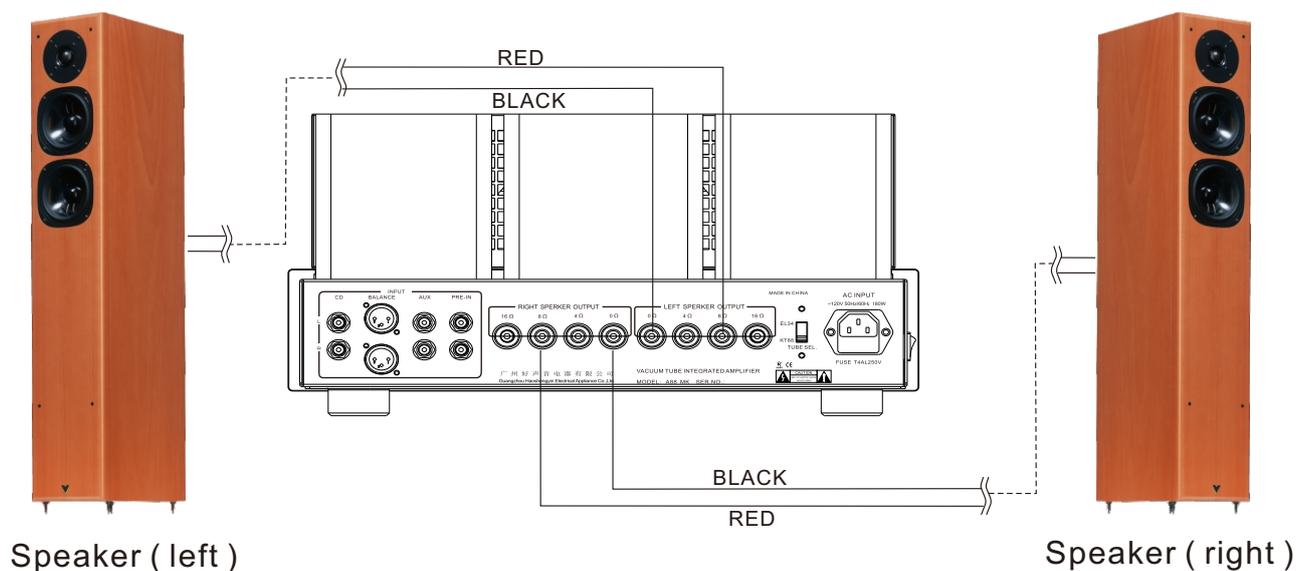
Audio connection note :Note :

- ◆ Always refer to the instructions supplied with the equipment to be connected .
- ◆ Do not plug in the power cord until all connections are completed .
- ◆ The red connector (R mark) is for the right channel ; the black connector (L mark) is for the left channel .
- ◆ Please verify all plugs and connections are fully inserted and reliable . Improper connection may cause noise , poor performance or damage to equipment .
- ◆ Do not tie or wrap the audio cables with the power and / or speaker cables , otherwise it may adversely affect the sound quality .

Note :



Speaker Connection



Connect your speakers to the terminals on the rear of the amplifier (as shown)

The impedance range of speakers suitable for this unit is 4Ω -8Ω. Use of speakers out of this range may result in permanent damage to the amplifier or speakers .

Please connect correctly .

Do not reverse the polarity or channels of the speakers ; otherwise the sound may be impaired .

Speaker cable connection method :

1. Unscrew the knob for other than banana plugs .
2. Plug in banana plugs or connect speaker leads .
3. Tighten the terminal knobs .

Note :

- ◆ Connect the cable to the speaker before connecting it to the amplifier .
- ◆ Please connect all speakers before powering on unit .
- ◆ To prevent damage to the amplifier circuits , do not short the positive (+) and negative (-) speaker cables .

Boot / Startup

Before starting up , please make sure that the various connections are correct and the power supply voltage is normal .

- ◆ Turn on the power and the volume control status indicator is red while in warm - up protection state .
- ◆ After 30 seconds , the protection relay closes , indicating that the machine is working normally . If the working status indicator stays always off , it means there is a malfunction inside the machine , please turn off the power immediately and contact the dealer or our company .
- ◆ After your working normally , you can enjoy high - quality music by selecting the correct audio source and adjusting the volume control knob to your desired volume .

Amplifier Maintenance

Read these instructions before using the amplifier . Please read the safety instructions and product instructions carefully to ensure safe and correct operation .

- √ Save these instructions . Please keep the instructions for future reference .
- √ Please be careful not to tear off , remove , or erase the unit serial number .
- √ Operation steps . Please strictly follow the operations instruction manual .
- √ When using accessories other than those provided by the manufacturer of the product (such as power cords , fuses , etc .), they must meet the safety requirements of the product , otherwise damage may occur .
- √ Do not place the product on uneven surfaces , shelves , tripods , wall mounts or simple bookshelves . The product may fall down and hurt children or adults , and the product may be damaged .
- √ This product can only use the type of AC power source indicated on it . If you are unsure of the type of power supply in your home , please contact your dealer qualified electrician .
- √ When connecting other electrical appliances to the power outlet that supplies power to this product , please be careful not to overload the outlet or circuit , otherwise it may cause fire or electrocution !
- √ Do not disassemble the machine or attempt to make any repairs or modifications to internal components ! High voltage can remain in unit even after disconnecting AC power supply ! **Severe risk of electrocution !** Opening the cover without authorization will void the warranty .
- √ If you encounter problems while using the product , you can troubleshoot the problem as described below .
- √ If you cannot resolve any fault yourself , please contact the company ' s sales department or ask professional maintenance personnel for assistance .

Important Notes

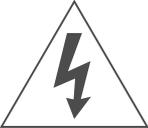
- √ When your amplifier system is powered on , do not plug or unplug signal or speaker cables to avoid damage to this unit or other equipment .
- √ After turning the amplifier power off , do not turn the power back on for at least 2 minutes to avoid damaging the vacuum tubes .

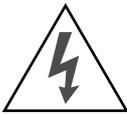
Troubleshooting

In order to maintain the prominent performance of this equipment, please pay attention to maintenance and proper operation. Incorrect operation may be mistaken for malfunction. If the amplifier is not functioning as intended, please check according to following tip to look for the possible reason. Sometimes problems could be caused by other related equipment, please check other equipment and associated connections. If it still does not operate correctly, please contact your dealer or our company.

Problem		Cause	Solution
No sound after power on	Power Indicator is OFF	Power is not well-connected	Check main power supply and connect power cable
		Main fuse is out	Replace with the same specification fuse
	Power Indicator is ON	No signal input	Check whether the audio source equipment is working and audio source is selected correctly
		Volume is at zero	Press the MUTE button on the panel or the MUTE button on the remote again.
		Volume at minimum position	Adjust volume to appropriate level
Excessive noise	Input source badly connected OR Interconnect grounding disconnected	Replace or reconnect the signal cable	
	Equipment malfunction	Contact your dealer or warranty company	
Sound stage and imaging not focused	The left and right channel the input or output inversely connected or the positive and negative terminals of the speaker.	reconnect it as suggested in the manual.	

Pay attention to safety matters

	warning high pressure inside Users please do not open the case	
<ul style="list-style-type: none">◆ In order to reduce the risk of electric shock, do not disassemble the outer cover (or bottom cover);◆ If maintenance is required, it should be repaired by qualified maintenance personnel;◆ In order to avoid the risk of fire and electric shock, do not expose the machine to rain or moisture.		



The lightning arrow inside the equilateral triangle is used to alert the user to the uninsulated dangerous voltage inside the product case. These voltages are quite large and present a risk of electric shock.



The exclamation mark within an equilateral triangle is used to alert the user to important operating instructions and maintenance (service) instructions mentioned in the equipment manual.

1. Before use, please pay attention to whether the local voltage is consistent with the voltage marked on the rear panel of the machine.
2. When the machine is not used for a long time, please unplug the power plug and keep the machine properly.
3. Please place the machine in a well-ventilated place, and do not cover the machine with any items, so as not to affect the cooling effect of the machine.
4. Handle with care during handling to avoid damage to the machine.
5. The machine may condense moisture (dew) in the following situations: the machine is in a room with steam or high temperature after the heating is turned on; the machine is brought into a warm room from a cold environment; the machine is brought from a cool environment, such as in an air-conditioned room or in a car, and suddenly bring it to a very hot and humid place. If moisture condenses inside the machine, it will not work properly. Please confirm that no moisture is formed before using the machine.
6. Be careful of electric shock! Please do not open the bottom cover. There are no parts inside the machine that need to be adjusted by the user.
7. The machine is strictly prohibited from being exposed to water drops or splashes. Do not place objects filled with liquids such as vases on or around the machine, so as not to cause electric shock or damage the machine.
8. Any maintenance can only be carried out by qualified maintenance personnel. Do not disassemble the machine by yourself, the handling of the machine by non-professionals may easily cause damage to the machine.
9. Before cleaning this product, please unplug the power cord. Please wipe the shell of the main unit with a soft, clean cloth, do not use volatile solutions or other corrosive cleaners.
10. Please prevent metal objects such as small iron nails, iron wires, etc. from falling into the machine through the cooling holes on the chassis.
11. The machine should be placed stably so that the force on the four machine feet is even.
12. The distance between the machine and the wall should be kept at least 10 cm.
13. Do not put any flammable items on the machine.
14. Direct sunlight or high temperature will cause component parameters to change or be damaged. Please avoid direct sunlight or use the machine under high temperature.
15. Please use the original power cord of this machine, and ensure that the protective ground wire of the AC power socket is reliably grounded. Using an AC power socket with a poor protective ground wire may cause the machine to work abnormally or cause an electric shock hazard.
16. If the machine fails, please contact the dealer.

Notice:

The power supply voltage used by this machine must match the voltage marked on the rear panel of the machine. The company will not be responsible for any fire or other accidents caused by using a power supply voltage other than the marked voltage.

Guangzhou Haoshengyin Electrical Appliance Co.,Ltd.

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