



LM-84IA User Manual



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Thank you very much for choosing our product, please read through this user manual first unless you know what you doing.

Troubleshooting

In order to maintain the superior performance of this device, please ensure proper maintenance and operation. Improper operation may lead to mis-identification as malfunction. If there is an issue with this device, please check the following things below. Sometimes the problem could be on other equipment which connect to this device, please check them as well as relevant connection lines. If the fault has not been resolved, please contact the local distributor or our marketing department.

Problems	Cause	Solution
No Sound	Power LED is OFF	Power cord is not properly connected
		Please check power supply and power connection
		Main fuse is out
		Replace with fuses of the same specifications
		Internal failure
		Contact your local dealer
	Power LED is NO	Volume is at MINIMUM
		Turn up the volume
		No input signal
		Check the audio source
		Check the audio source selector
Distorted sound	High input signal level	Turn the volume down
The noise is too loud	The ground wire of input signal line is open-circuit or bad contact	Reconnect it as suggested in the manual
	Internal failure	Contact your local dealer
Acoustic field is unacceptable	The left and right channels of the input and output are reversed or the positive and negative terminals of the speakers are connected incorrectly	Reconnect it as suggested in the manual
Remote control erratic/unresponsive	Disturbed by external devices	Stay away from interference sources. turn off the device, and turn it back on later
	Running low on battery	Replace the battery
	IR ray (from remote control to IR sensor) is blocked by something	Make appropriate adjustments based on the situation

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Table of Contents

Thank you for using the LM-84IA integrated vacuum tube amplifier. This product is equipped with sponge sleeves inside the vacuum tube covers to prevent damage to the vacuum tubes during transportation. Before using this product, you must remove the sponge sleeves from inside the vacuum tube covers, otherwise, it may cause damage to the unit or even fire.

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Note:

LM-84IA uses original factory components designed by our company to achieve optimal performance. We are not responsible for any damage or accidents caused by the use of non-original factory components. If non-original factory components are used, any damage to the product will not be covered under warranty.

Package Contents

Before unpacking, carefully check for any signs of impact, damage or moisture. Place the packaging box with the arrow pointing upwards. Open the packaging box, and the packing list is as follows:

1. LM-84IA

*1
2. Main Fuse

*2
3. Power cord

*1
4. Remote control

*1
5. User Manual

*1

Attention::
Before plug in the power cord, please double check whether the voltage indicated on the back panel of the amp matches the local voltage. If not match, it may cause damage to the amp even fire. Please contact the local dealer or us.

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

Product features

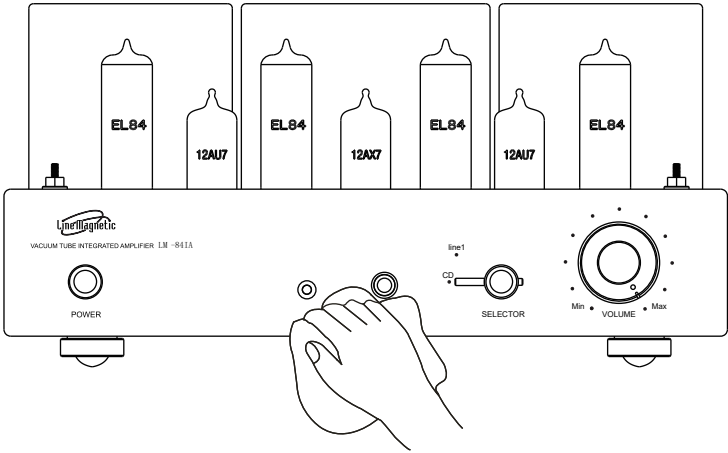
- 1.Wide-Bandwidth EI Output Transformers: High-quality transformers delivering extended frequency response and stability.
- 2.Customized toroidal power transformer only for LM-84IA
- 3.Employ a 12AX7 and two of 12AU7 for pre-amplification
- 4.The rear-stage applied four of EL84 for AB class push-pull power amplification.
- 5.Come with remote control
- 6.Power on mute delay(30 sec) for safer startup and speaker protection.
- 7.Headphone function
- 8.Handy plug-in type tube cover.

Tube Replacement

Tubes complement	Common Replacements
12AX7EH	ECC83、E83CC、CV4004、ECC803、5751
12AU7	12AU7EH, ECC82, 5814, 6189, CV4003
EL84	6P14 ,6BQ5,6Π 14Π

Maintenance

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



Warranty Statement

All products from Line Magnetic are guaranteed for one year from the date of purchase (excluding electronic tube parts), six-month warranty for tubes. No fees are charged during the warranty period. Amp which requiring repair must be carefully packaged and sent to our company or the dealer where Amp were purchased.

We are responsible for repairing machines during the warranty period, with no charge for component fees, labor costs, or shipping fees. The following situations are not covered by the warranty:

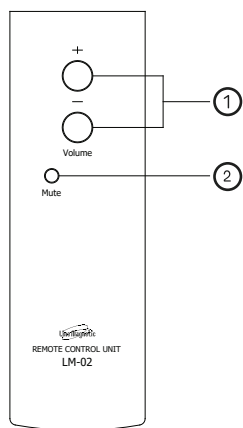
1. Machines that have been repaired or adjusted by anyone without authorization by Line Magnetic.
2. Damage caused by misuse or abuse, transportation, or negligence, which is not covered by the warranty.
3. Damage to other equipment caused by the use of our products is not covered by the warranty service.
4. Damage determined to be caused by abuse is not covered by the warranty.

All warranties are subject to this warranty statement. Warranties are valid for the original purchaser only and its not transferable.

Note: We reserve the right to upgrade this manual without further notice.

Remote Control

Function description



① VOLUME UP/VOLUME DOWN

② MUTE

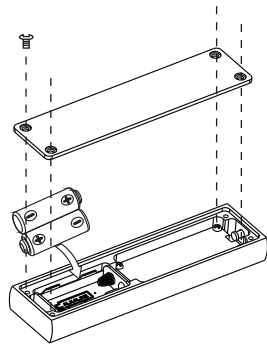
Installation/Replacement of Batteries:

Installing Batteries:

- 1: Remove the battery compartment cover.
- 2: Insert "AAA" batteries according to the (+) and (-) indications.
- 3: Replace the battery compartment cover

Replacing batteries:

- 1: When the battery voltage is low, the remote control's operating distance will shorten, and new batteries should be replaced.
- 2: The remote control uses two "AAA" batteries.
- 3: Do not mix old and new batteries.
- 4: Please use batteries which can prevent internal electrolyte leakage.



Specification

Power Output: 12W + 12W	THD: 1% (1kHz)
Frequency Response: 20Hz~30kHz (−1.5dB)	S/N Ratio: 87dB
Input Sensitivity: 250mV	Input Impedance: 100kΩ
Dimension (W×D×H): 360mm x 290mm x 160mm ³	Output Impedance: 4Ω , 8Ω
Tube Complement: 12AX7 x 1、12AU7 x 2、EL84 x 4	
Power supply : ~120V/220V/230V/240V 5% (50Hz)	
Net Weight: 13.75kg	Power Consumption: 100W
Working Condition: Temperature: 0°C~40°C Moisture: 20%~80%	
Storage Condition: Temperature: −20°C~70°C Moisture: 20%~90%	

Note: Line Magnetic Audio 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.

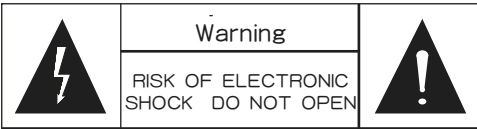
Safety precautions

- 1.the power cord should be unplugged to prevent accidental incidents when amplifier is not going to be turn on for an extended period of time.
- 2.The surface of this amplifier may become hot during operation. Do not block the ventilation holes and place the unit in a well-ventilated area. Poor ventilation can lead to excessive internal temperatures even malfunctions or fire.
- 3.Forbidden to operate as unload.
- 4.In working condition, the output end should not be left open or short-circuited to prevent damage to amplifier.
- 5.Do not attempt any internal maintenance unless you know what you doing, specially some of internal components are electriferous.
- 6.We are not responsible for performance degradation or any damage caused by unauthorized internal modifications. Any repairs must be performed by professional service personnel.
- 7.This product must not be exposed under dripping or splashing water. It could cause some serious damage to this product.
- 8.Clean the panel and external device with a soft rag periodically. Forbidden to use any type of diluent, alcohol or other volatile liquids for cleaning as they can damage the surface layer and cause stains even erase various markings. Do not use insecticides any where near amplifier.
- 9.Handle with care when moving to avoid any damage to the amplifier.
- 10.During thunderstorms, unplug the power cord from the socket to prevent lightning damage to the amplifier.

Recommendation: Before you install the pre-amplifier, please double check that other related equipment is well connected and ready. The following precautions should be taken when placing the pre-amplifier.

- 1.Do not place the amplifier in direct sunlight or near other heat sources.
- 2.To prevent overheating, ensure that the amplifier's heat dissipation vents are not covered by other objects.
- 3.Avoid moisture or dust.
- 4.When placing the amplifier, ensure easy connection to the power supply and other related equipment.
- 5.This amplifier should be placed stably, with all four feet evenly supported.
- 6.Maintain a distance of at least 15cm between the power amplifier and surrounding walls.

Safety Precautions



WARNING: To prevent the risk of electric shock, do not remove the outer casing (or bottom cover); if repairs are needed, please contact a professional service technician. To avoid fire and electric shock hazards, do not expose this unit to rain or moisture.



The lightning bolt with an arrowhead within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

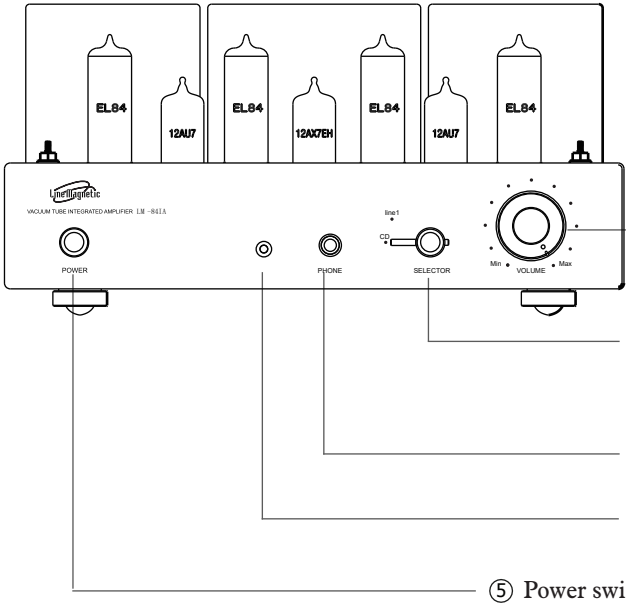


The warning mark inside equilateral triangle is used to remind user to pay attention to important operational/maintenance instructions mentioned in the manual.

Notice: The designed power supply voltage for this amplifier is ~115V/120V/220V/230V/240AC ±5%, its is important to confirm that whether the power supply voltage meets the requirements. Otherwise it may cause this amplifier malfunction or even harm its lifespan. This product is for non-tropical climate conditions and only suitable for altitudes where below 2000 meters

Functions Description

Front Panel:



① Volume Control Knob: this knob controls the volume of the sound, rotating clockwise gradually to increases the volume while rotating counterclockwise gradually to decrease the volume(Remote control enable).

② Input selector: audio source selection among LINE1、CD.

③ PHONE (Headphone jack)

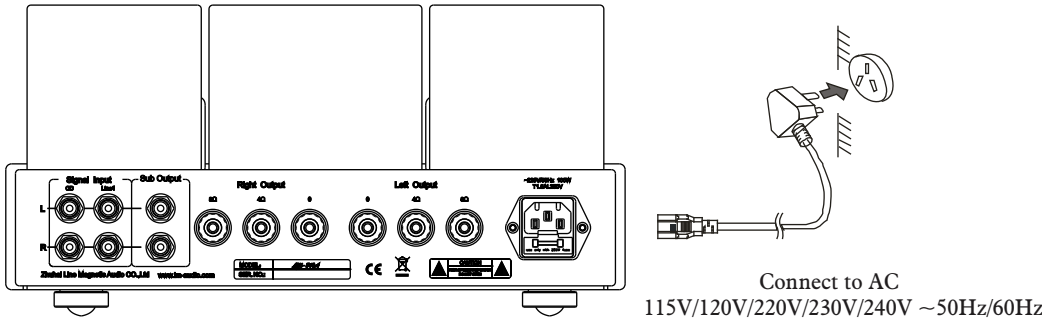
④ Remote control receiver

⑤ Power switch (ON/OFF): Used to turn the power amplifier ON and OFF.

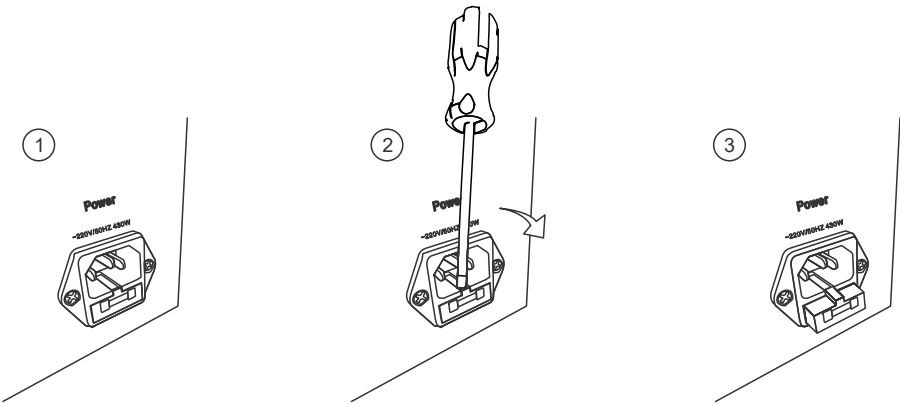
Turning ON

IMPORTANT: BEFORE TURNING ON THE AMPLIFIER:

Connect the speaker cable and signal cable first and then plug the power cord of amplifier into the power socket.



Instructions on Fuse Replacement:



1、 There is a groove on the top of the fuse.

2、 Please insert a flat-head screwdriver in to the groove and pry up to open in the direction indicated above.

3、 Please replace the fuse with a new one and press it into the fuse socket.

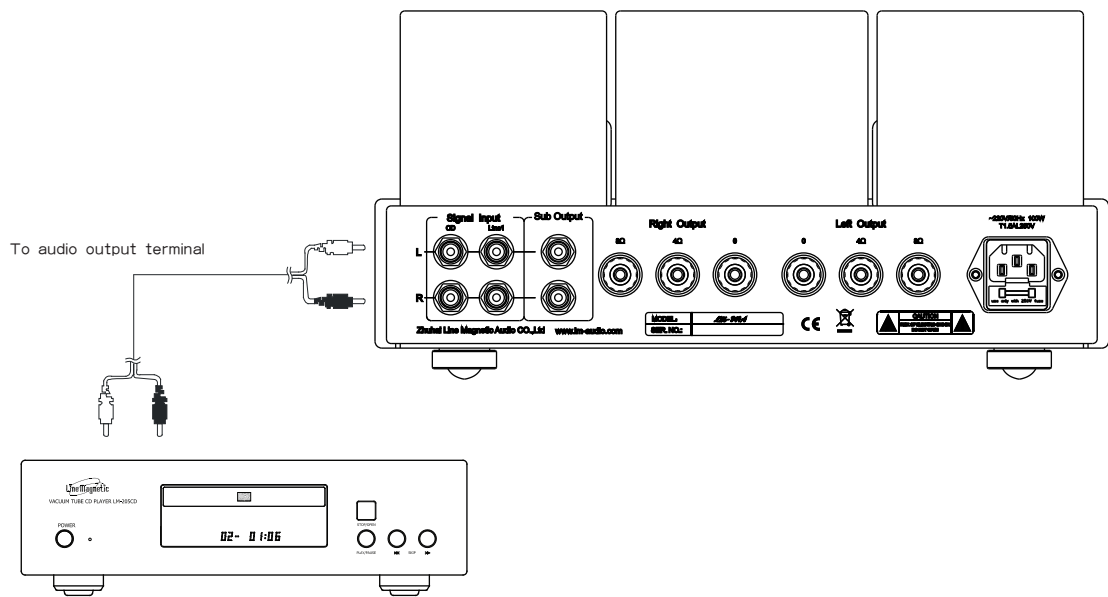
- Note:
- 1: It is normal for the power transformer of this unit to generate heat during prolonged use.
 - 2: If the unit will not be used for a long time, please unplug the power cord.
 - 3: Turn on the power only after all other related equipment include the speaker is well connected.
 - 4: Forbidden to plug or unplug signal lines or speaker cable while your audio system is turning on to avoid damaging amplifier.
 - 5: After switch off the power, you should wait for 2 minutes before turning on the power again for the sake of tubes lifespan.

Warning: The voltage of your power supply must match the voltage marked on the back panel of the device. Our company will not be responsible for any fire or other accidents cause by any voltage other than the specified one.

Connection

Audio Connection

This section describes the standard method for connecting main equipment to the LM-84IA



Audio Connection Instructions:

- 1: Please always refer to the manual provided from other device when you connect them to the amplifier.
- 2: Do not plug in the power cord until all other equipment is well connected.
- 3: Red terminal (R) is for right channel, black terminal (L) is for left channel.
- 4: Make sure the cable connection is firmly, improper connections may cause noise, poor performance even equipment damage.
- 5: Do not bundle the audio cable with power cords and speaker cables, it will effect the sound quality.

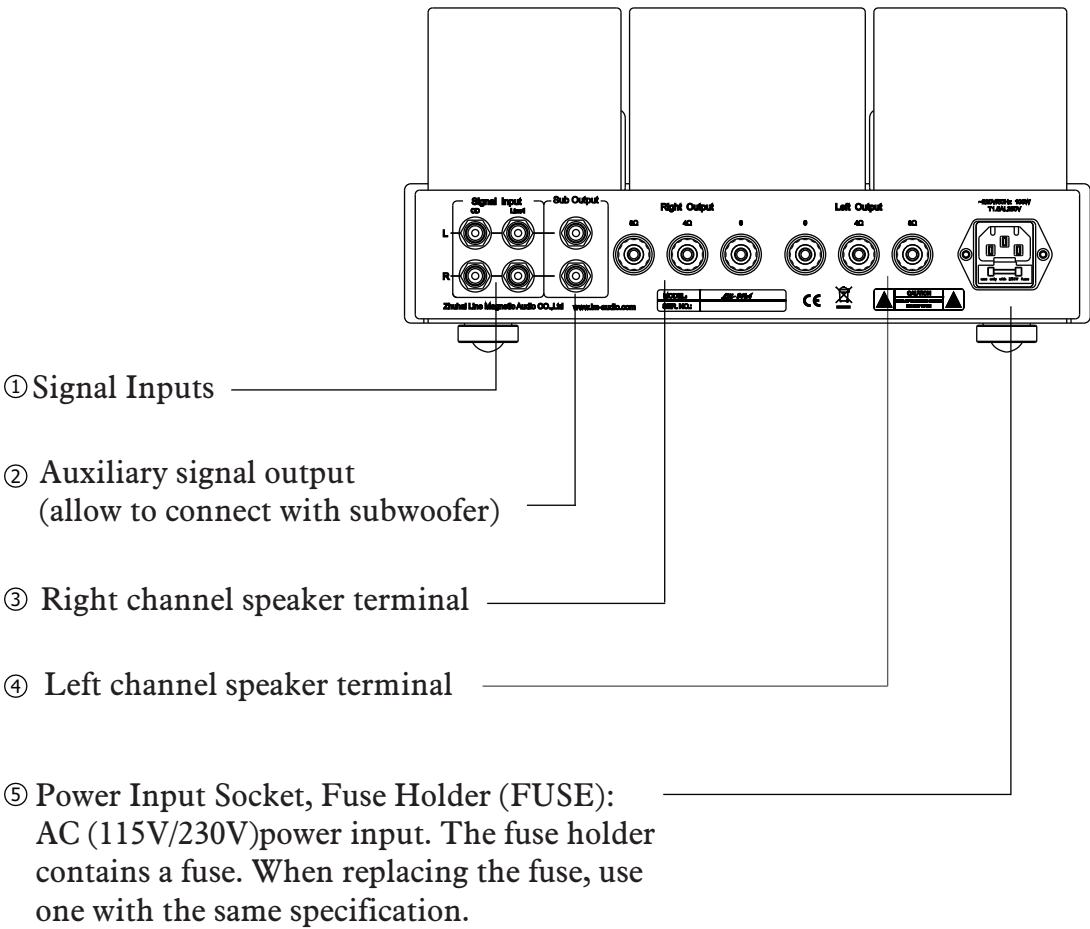
Power ON

Please double check all connections and power supply voltage before turning on.

- 1: The power indicator will turn on once you turn on the power, the working status indicator will flash.
- 2: After 30 seconds, the working status indicator will turn on indicate that amplifier is already operating normally. If the working status indicator remains off, its represent the internal fault of amplifier please turn off the power immediately then contact your local dealer or our company.
- 3: After your audio source is working properly, you can enjoy high-quality music by selecting the correct channel of audio source and adjusting volume knob to appropriate volume.

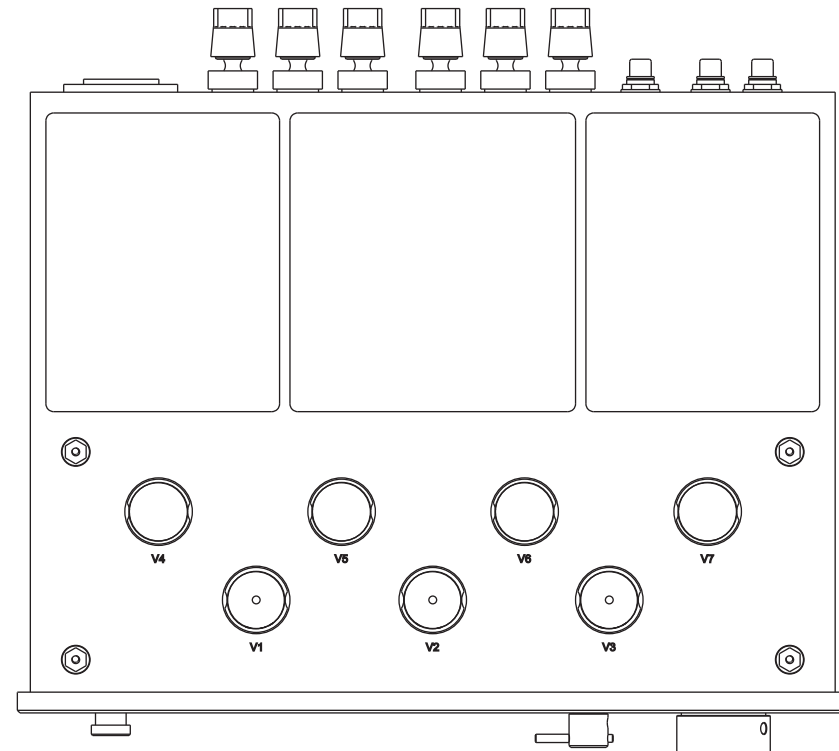
Functions Description

Rear Panel:



Functions Description

Overview from the top



Notice:
1: the surface temperature of tube is very high during operation,
2: the power tube and the drive tube should be used in pairs

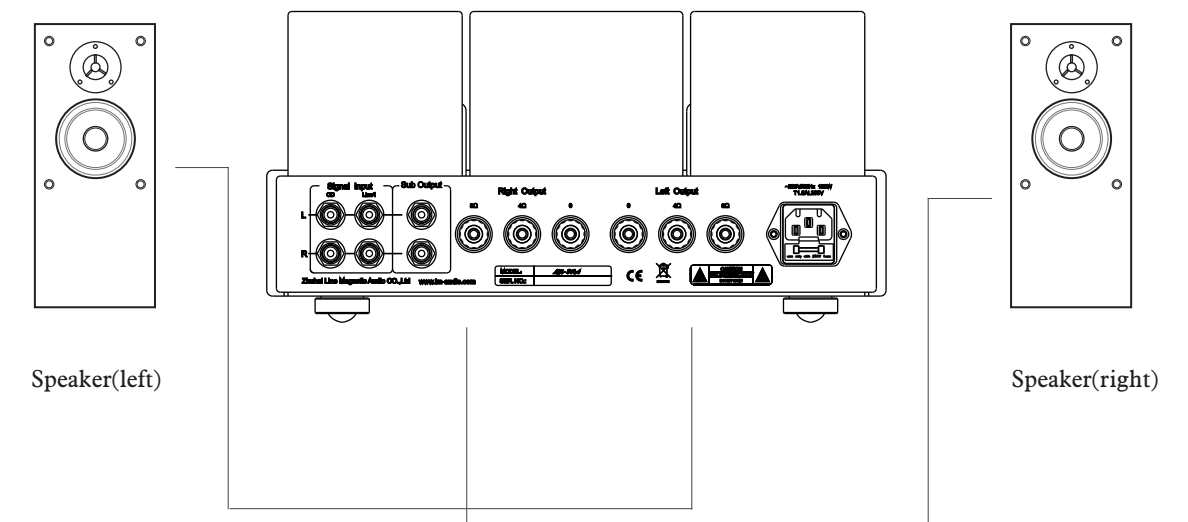
Connection

Speaker Connection

Connect the speaker cables to the corresponding output terminals on the rear panel (see illustration). Use speakers with a nominal impedance of 4Ω, 8Ω. For 6Ω speakers, either the 4Ω or 8Ω tap may be used without risk of damage; choose based on the sound in your system, with the 8Ω tap recommended.

Connect the black lead to the negative (0Ω) terminal, and the red lead to the positive (4Ω / 8Ω) terminal.

If the left and right speakers are wired in reverse or out of phase, the sound will become unnatural and the stereo image will be blurred.



How to connect the speaker cables:

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



Notice:

Connect the speaker cables with the amplifier after it is well connected with the speakers, please connect both left and right channel of speaker to this device, be aware that signal flow direction on the speaker cable.

Do not allow the positive and negative speaker cables to short-circuit .