



LM-300IA PLUS User Manual



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Thank you for choosing our product, please read-through this User Manual before proceed any further.

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.

Problem	Cause	Remedy
NO OUTPUT	Power LED is OFF.	Power cord is not properly connected.
		Please check power supply and power connection.
		Main fuse is out.
	Power LED is ON.	Replace the fuses with the same specifications
		Internal failure
	Volume is at minimum position	Please contact with your local agents or our customer service.
		Turn up the Volume
	NO signal input	Verify if the audio source is operating correctly
		Check the audio source selector
Distorted sound	Input signal level is too high	Turn down the volume to suitable position
Noise/Buzz	The ground wire of input signal line is open-circuit or bad contact	Replace or reconnect signal cable
	Internal failure	Please contact with your local agents or our customer service.
Acoustic field is unacceptable	Left/right channels reversed or speaker connection reversed.	Reconnect it as suggested in the manual
Remote control erratic/unresponsive	External interference	Stay away from interference sources. turn off the device, and turn it back on later
	Running low on battery	Replace the battery with new ones
	IR ray (from remote control to IR sensor) is blocked by something	Make appropriate adjustments based on the situation

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Thank you for using the LM-300IA PLUS 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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Announcement:

LM-300IA PLUS 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-300IA PLUS *1
- 2. Main Fuses *2
- 3. Power cord *1
- 4. Remote control *1
- 5. User's Manual *1

Note:All other parts except above are not included.

Recommendation:

Please retain all packaging materials, as you may need to repack the unit for future transportation.

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.

Product features

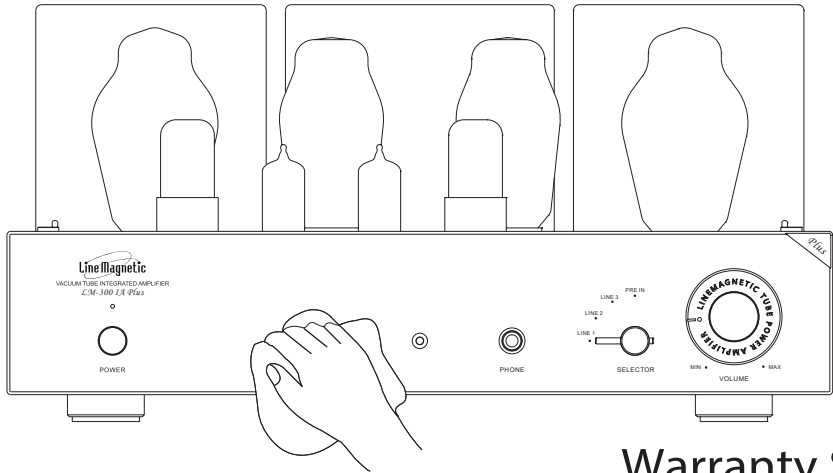
- 1.Hand made construction with finest point to point wiring
- 2.Output Transformer: High-grade EI-core single-ended output transformers, built with premium materials and wide-bandwidth construction.
- 3.Using high-power margin EI-type power transformers
- 4.Power Amplification: Two PSVANE WE300B tubes operating in Class-A single-ended configuration.
- 5.Remote control come with volume and mute function
- 6.Japanese ALPS audio grade volume potentiometer is applied.
- 7.Handy plug-in type tube cover.
- 8.Sonic Character: Gentle, pure, and smooth presentation-suitable for a wide range of musical genres.
- 9.Preamplifier & Rectification: Two 12AT7 and two 6SL7 tubes in the preamp stage; two 274B rectifier tubes for the high-voltage supply.

Tube Replacement

Tubes complement	Common Replacements
274B	5Z3P、5R4、5U4G、U52
12AT7	ECC81、12AZ7
6SLGT	6N9P、5691、33S29、VT229
300B	300A、4300B

Maintenance

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



Warranty Statement

Terms & Conditions:

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:

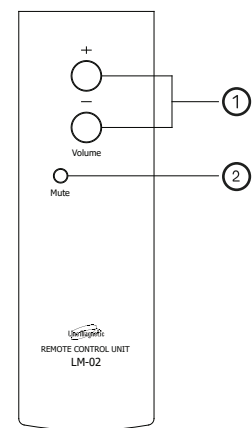
- 1. Machines that have been repaired or adjusted by anyone without authorization by Line Magnetic.
- 2. Damage caused by misuse or abuse, transportation, or negligence, which is not covered by the warranty.
- 3. Damage to other equipment caused by the use of our products is not covered by the warranty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

Description



① VOLUME UP/VOLUME DOWN

② MUTE

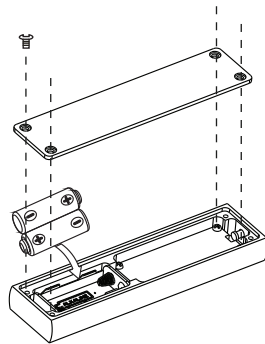
Installation and replacement of the batteries:

Installing Batteries:

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

Batteries Replacement:

- 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: 8W+8W	THD: 1% (1kHz)
Frequency response: 20Hz~50kHz (-1.5dB)	S/N Ratio: 87dB
Input Sensitivity: 200mV (Integrated)	Input Impedance: 100k Ω
Dimension (WxDxH): 440mmX425mmX230mm	Output Impedance: 4 Ω , 8 Ω , 16 Ω
Tube Complement: 274B x2、6SL7GT x2、ECC81(12AT7)x2、300B x2 Power Consumption: 150W	
Power Requirements: ~115V/120V /220V/230V/240V $\pm$ 50% (50HZ/60HZ) Net Weight: 37.6kg	
Working Condition: Temperature: 0 $^{\circ}$ C~40 $^{\circ}$ C Moisture: 20%~80%	
Storage Condition: Temperature: -20 $^{\circ}$ C~70 $^{\circ}$ C Moisture : 20%~90%	

Notice: Due to continuous product improvement, the company reserves the right to change specifications without prior notice. This manual is only consistent with the product it attached. The values shown for performance specifications are nominal values for the product; each unit may have slight variations. Please be aware of this.

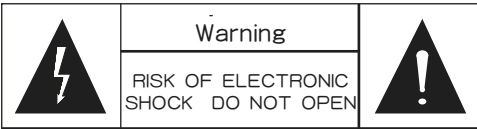
Safety precautions

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

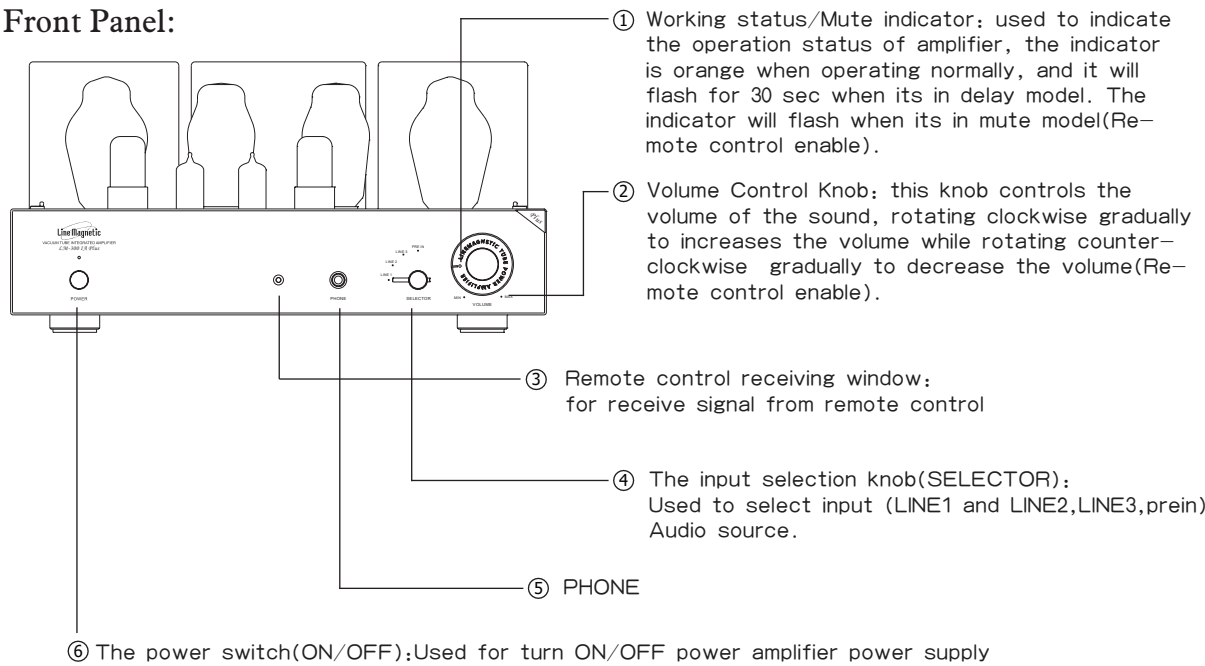


The warning mark inside equilateral triangle is used to remind user to pay attention to important operational/maintenance instructions mentioned in the manual.

Attention:
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

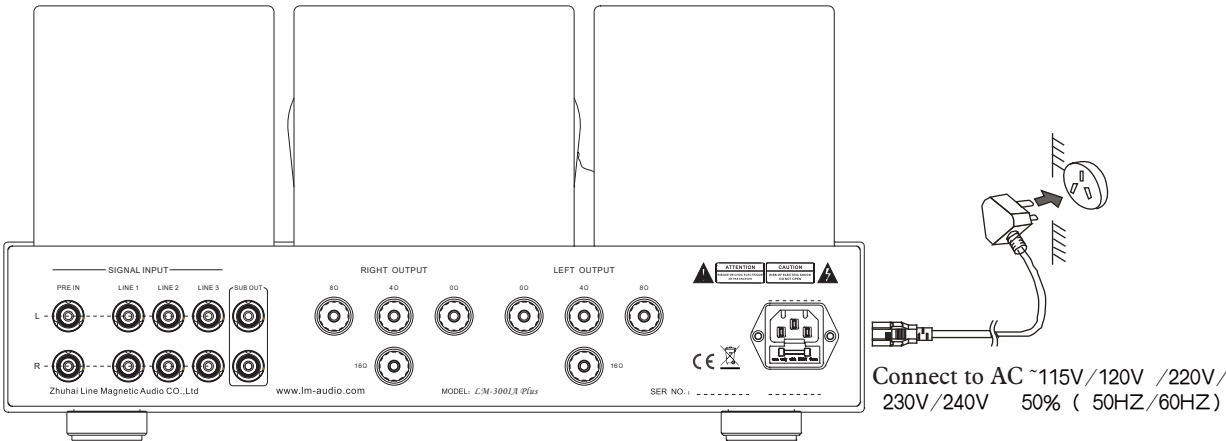
Front Panel:



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.



Attention:

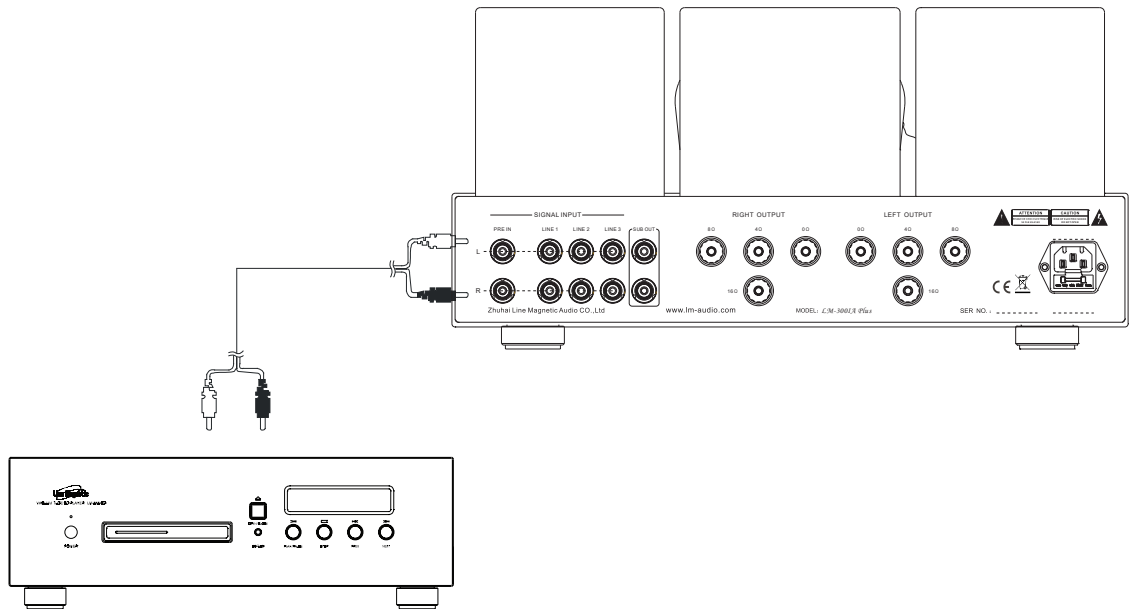
- 1: It is normal for the power transformer of this unit to generate heat during prolonged use.
- 2: If the unit will not be used for a long time, please unplug the power cord.
- 3: Turn on the power only after all other related equipment include the speaker is well connected.
- 4: Forbidden to plug 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-300IA PLUS.



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.

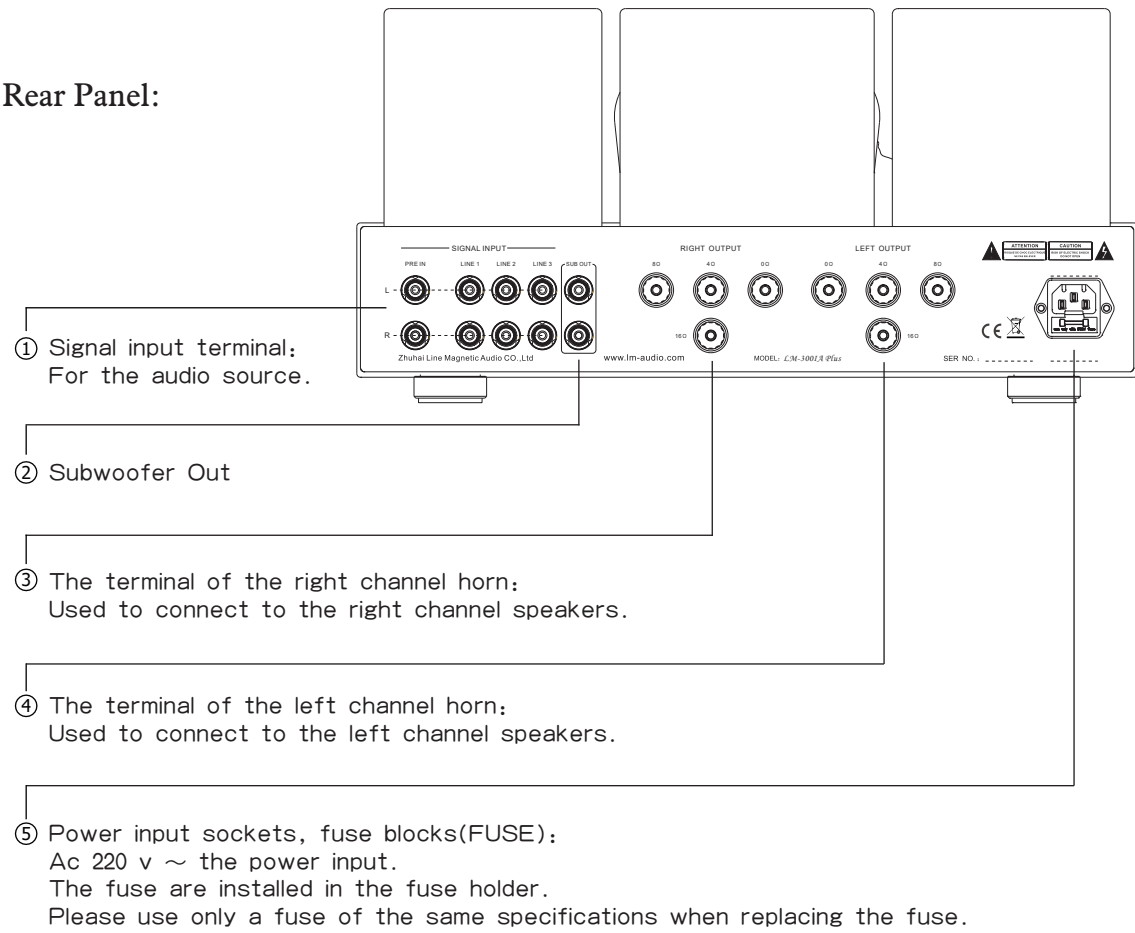
Power ON

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

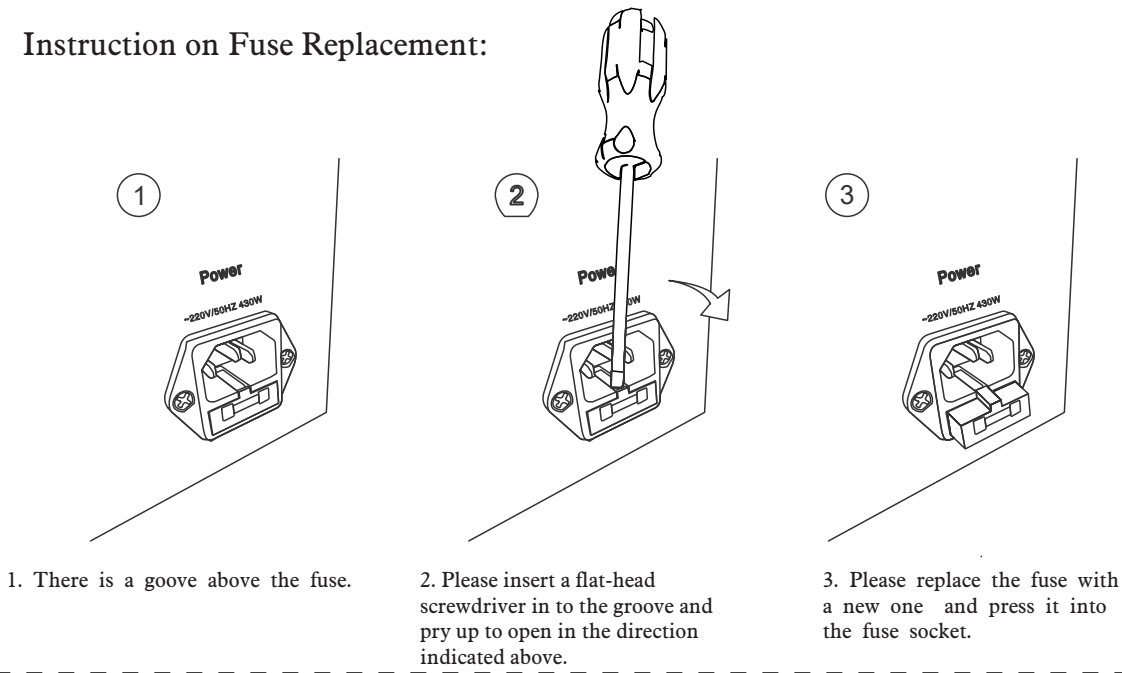
- 1: The power indicator will turn on once you turn on the power, the working status indicator will flash.
- 2: After 30 seconds, the working status indicator will turn on indicate that amplifier is already operating normally. If the working status indicator remains off, its represent the internal fault 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:

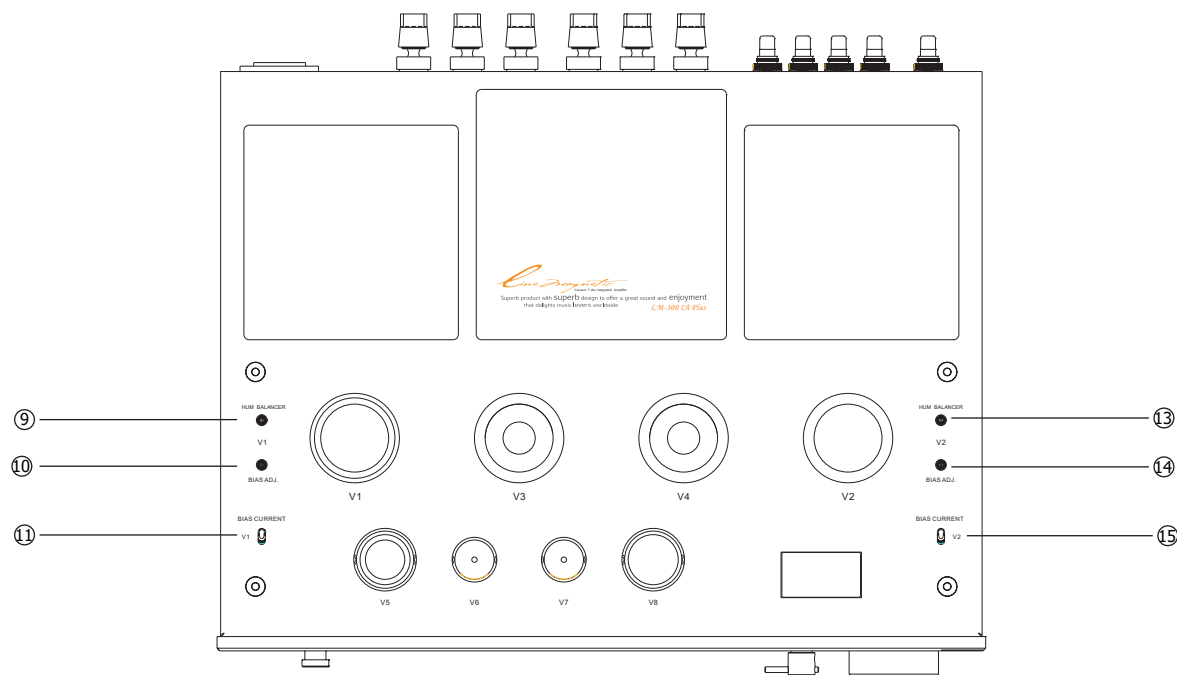


Instruction on Fuse Replacement:



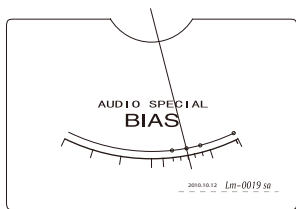
Functions Description

Overview from the top



V1、V2:300B 2、V3、V4:274B V5、V8:6SL7GT V6、V7:12AT7
⑨⑬ :V1、V2 current hum
⑩⑭ :V1、V2 quiescent current
⑪⑮ : Selection switch, V1、V2 Current monitoring switch

power tube,V1 ,V2 (300B)) current set-up.
On the first panel Bias/Meter selector switch to choose to Bias.Then put the volume down to silent.Adjust V01 Bias, near the tube. The ADJ VU table pointer in (The fourth) as shown in the figure



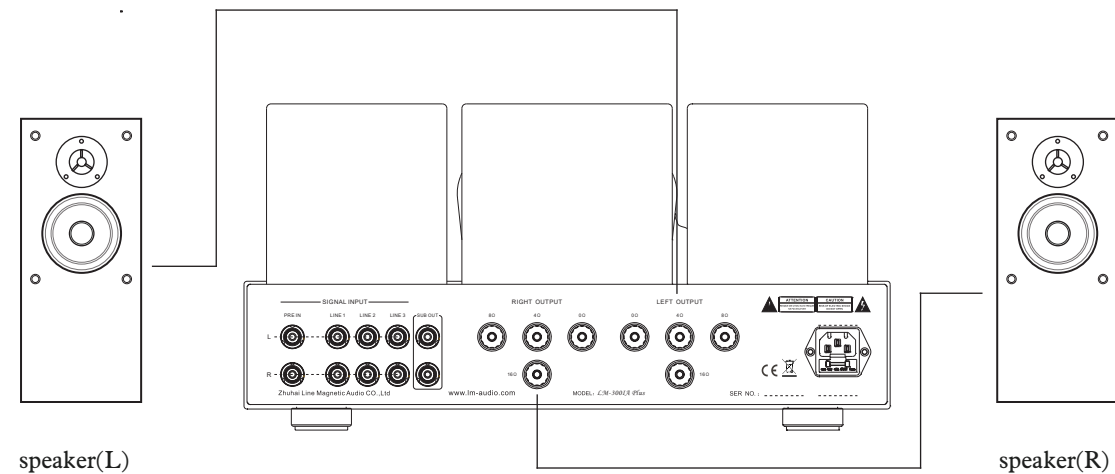
Bias current adjustment for V02 is the same as for V01. Please adjust the corresponding BIAS ADJ.and make sure all the bias level of V01, V02 are the same. In order to make sure the amplifilier works in its best condition please re-test each tube’ s operatin state after used 150 hours.

- 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

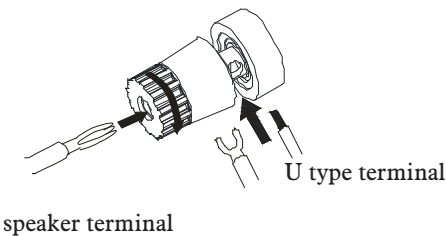
Speaker Connection

Check the impedance of your speakers. Attach the positive from your speaker to the 4, 8 or 16 ohm terminals and the negative to the 0 ohm terminals separately. 4 ohm, 8 ohm or 16 ohm impedance speakers are preferential and if your speakers are 6 ohm it would not cause damage to the amplifier and experience using 4, 8, or 16 ohm positive terminal to find what the best is for your speakers. Please take the right guidance for connection and do not mix as wrong connection may cause noise or low grade function.



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.