

INTEGRATED VACUUM TUBE AMPLIFIER

LM-508IA



**LineMagnetic**

LINE MAGNETIC AUDIO

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Thanks for choosing our Line Magnetic LM-508IA 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:**

LM-508IA Integrated Amplifier is designed and manufactured with our original parts and reaching the best results. We are not responsible for problems and damages caused by non-original parts replacement in the amplifier.

## *Package Contents*

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Please carefully check the package first and then open the package. Package contents include:

1. Line Magnetic LM-508IA 1
2. Main Fuses 2
3. Power cord 1
4. Remote control 1
5. 1.5V Batteries(AAA) 2
6. User's Manual 1
7. 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*

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- .Black panel,both dignified and graceful.
- .Poweramp adopt audio grade with 805 output high power tubes as single-ended class A power amplification.
- .Extraposition 805 current adjustment(BIAS ADJ.)and hum balance adjustment (HUM BALANCE).
- .You can use a variety of brands and models tubes,listen to the different rhyme.
- .Totallyhandmade,The whole machine adopts some welding booths.
- .Interstage use the German high quality N - cap coupling capacitance.
- .Using two high quality EI to promote output transformer and output transformer.
- .Using the specifical development for the native circular area power transformer.
- .With high pressure power supply and the filament preheating function,extend the life of the tube.
- .Select the Japan ALPS high-grade motor potentiometer.
- .Infrared remote control function.

## Specification

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Power output: 48W+48W	THD: 1% (1kHz)
Frequency response: 10Hz~50kHz (-1.5dB)	S/N Ratio: 87dB A Weighted
Input Sensitivity: 200mV (Integrated)	Input Impedance: 100k $\Omega$
Dimension (WxDxH): 430mmX420mmX270mm	Output Impedance: 4 $\Omega$ , 8 $\Omega$ , 16 $\Omega$
Tube Complement: 6SL7 x1, 6SN7 x2, 805 x2, 300B x2	Net Weight: 40kg
Power Requirements: ~230V $\pm$ 5% (60Hz)	Power Consumption: 400W
Working Condition: Temperature: 0 $^{\circ}$ C~40 $^{\circ}$ C Moisture: 20%~80%	
Storage Condition: Temperature: -20 $^{\circ}$ C~70 $^{\circ}$ C Moisture: 20%~90%	

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**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

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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. Forbidden to operate as unloaded.
  4. Forbidden to operate when the output is open or shorted.
  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 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.

## Safety precautions



- .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.

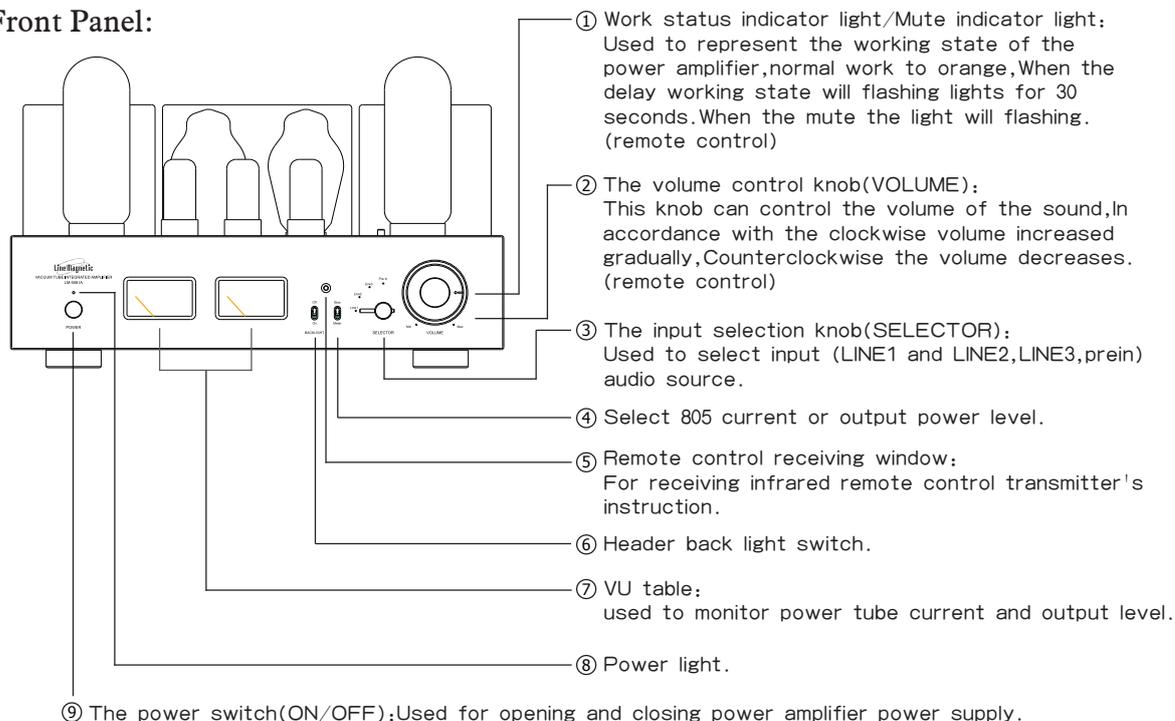


The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

**Note:** Input voltage level of the amplifier is 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.

## Functions Description

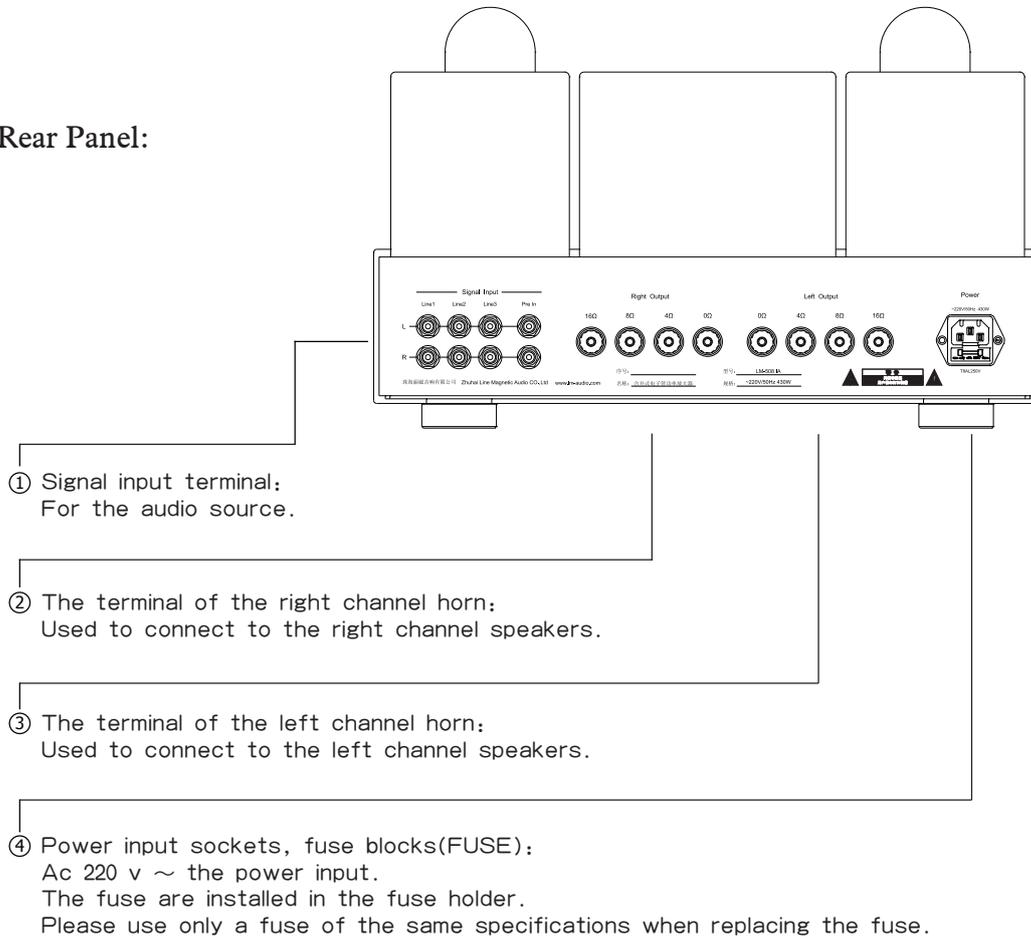
### Front Panel:



## Functions Description

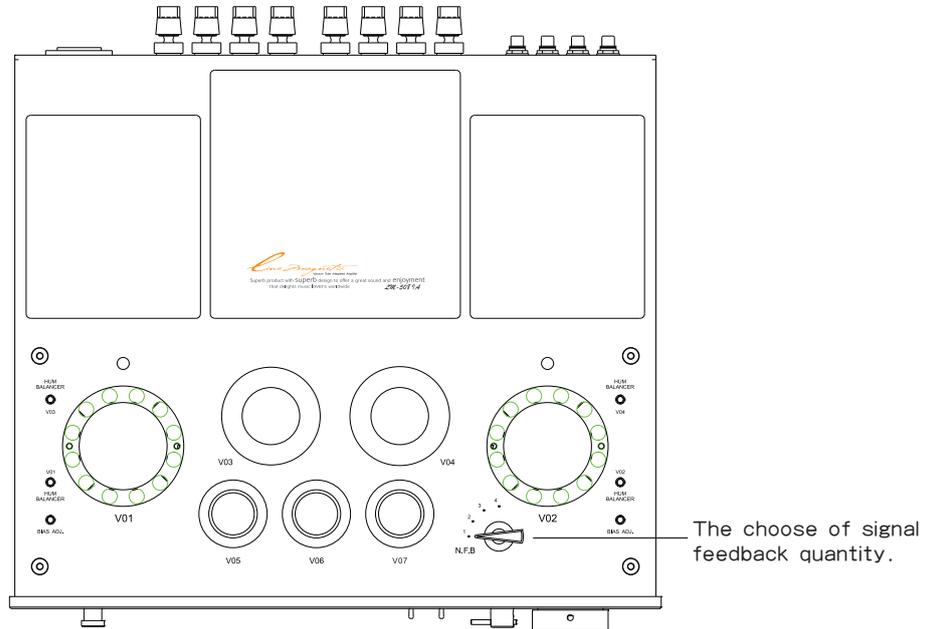
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### Rear Panel:



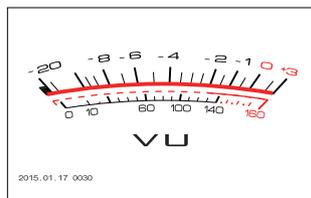
# Functions Description

## Overview from the top



805 power tube, V01, V02 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 120 (The fourth) as shown in the figure.



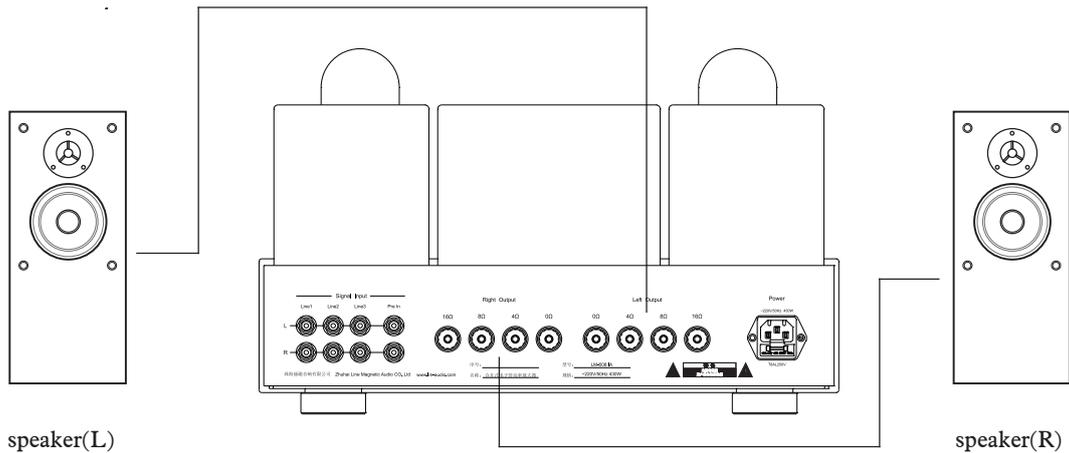
Bias current adjustment for V02 is the same as for V01. Please adjust the corresponding BIAS ADJ. and make sure all the bias level of V01, V02 are the same. In order to make sure the amplifier works in its best condition please re-test each tube's operation state after used 150 hours.

V03, V04: 300B      V05, V07: 6SN7      V06: 6SL7

- Note:
1. Be careful of the high temperature of the tubes during operation.
  2. Driver tubes and Power tubes must be matched for better results.

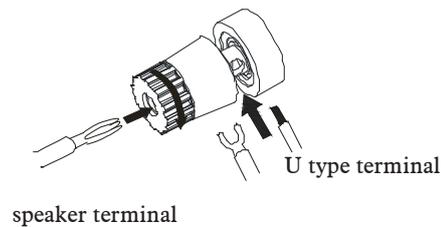
### Speaker Connection

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.



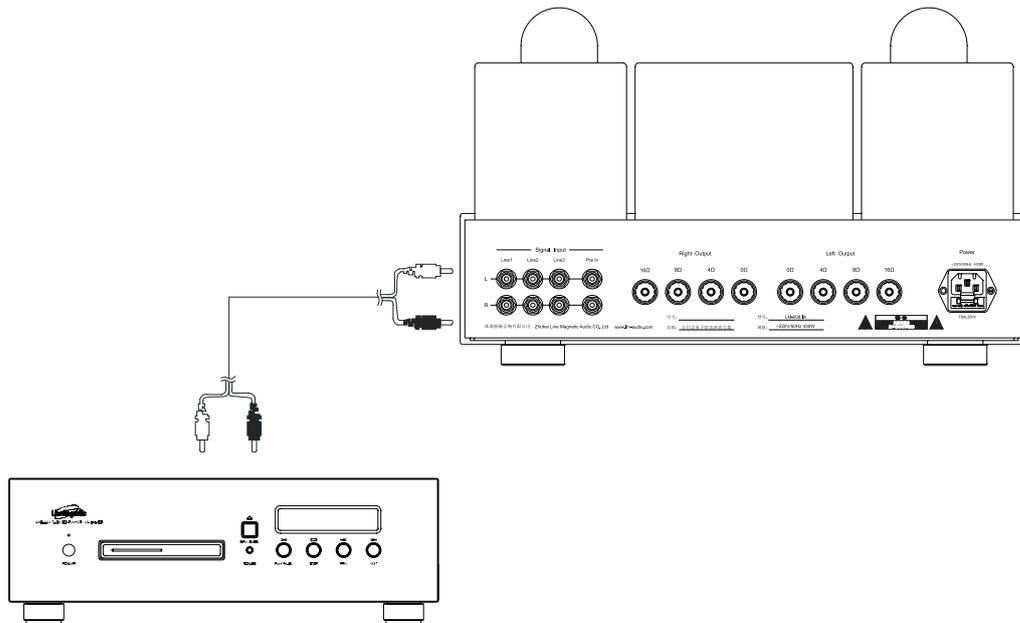
**Note:** Connect the speaker cables with the amplifier after it is well connected with the speakers. Please notice the right direction indication of the cable and do not mix up the positive and the negative end.

## Connection

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### Audio Connection

Here is the standard way of connection for LM-518IA 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 take the right guidance for connection as wrong connection may cause noise or low grade function.
5. Do not fasten signal cables together with other cables just like the power cables to avoid disturbance.

## Turning ON

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

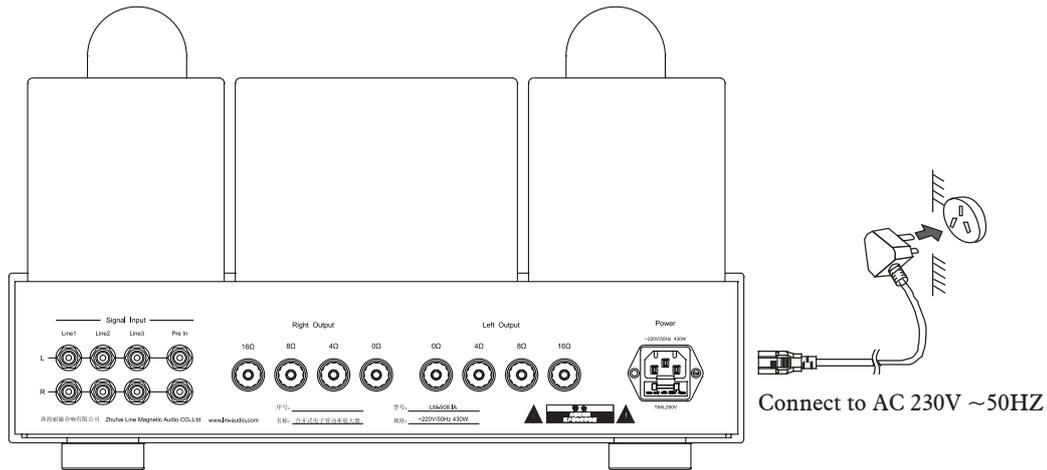
1. Turn on the amplifier and the power LED will be on. It shines indicating that the amplifier is working.
2. In 30 seconds the power LED will keep lighting up. It means the amplifier functions very well. Or if the LED is not on please contact with our local agent or our company.
3. Select the right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

## Turning ON

### Precautions:

#### Connection of the power cord:

Connect the speaker cables and signal cables first and then plug the power cord into the power socket. Before turning on the amplifier please make sure all connections are right and power supply is stable.



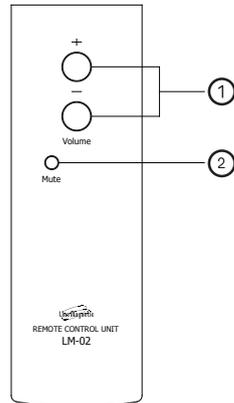
- Note:**
- 1.It is normal that power transformer becomes hot for extended period of operation.
  - 2.Please unplug the power cord if you're not going to use the product for an extended period of time.
  - 3.Please do not insert the power cord into the mains socket only if all other instruments are well 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

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### Description



① VOLUME UP/VOLUME DOWN

② MUTE

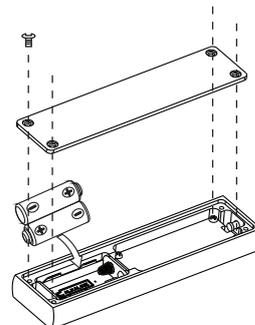
### Installation and replacement of the batteries:

#### Installation:

1. Unscrew the remote cover.
2. Insert two pieces of AAA batteries and please follow the guidance of positive and negative indication.
3. Reassemble the remote by screwing back the cover.

#### Replacement:

1. If the battery is low please replace them with new ones.
2. Two pieces of AAA batteries are used for the remote unit.
3. Do not misuse the new batteries together with the old ones.
4. Please use high quality batteries which can prevent leakage of electrolyte.



## Tube Replacement

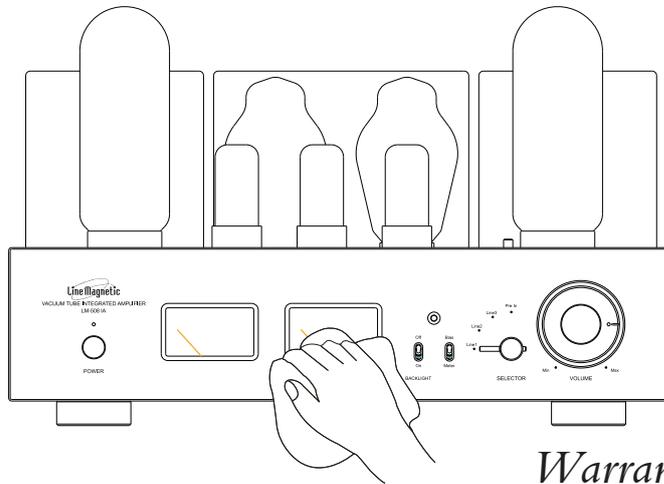
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Tube Basics	Common Replacements
12AX7	6N9P, 6H9C, CV1985, ECC35
6P3P	6H8C, 6N8P, 5692, CV181, ECC33
805	805, FU-5

## Maintenance

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



## Warranty Statement

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### Terms & Conditions:

- Limited Warranty:** One-year limited warranty from the date of purchase except vacuum tubes which are warranted for six months.
- 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.
- 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 Line Magnetic Audio Co., LTD or an authorized Line Magnetic Audio Representative.
- Remedy:** If the product contains material, or manufacturing defects, it must be packed in original packaging and returned to Zhuhai Line Magnetic Audio Co., LTD or an authorized Line Magnetic Audio 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 an authorized dealer's stamp on which indicates the model and series number, the date of purchase, the name and address of the purchaser. Zhuhai Line Magnetic Audio Co., LTD reserves the right to modify the design of the product and change the specifications without notice or obligation to any person.
- 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

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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 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 with local agents or our company.
NO OUTPUT 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 selection and 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 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

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