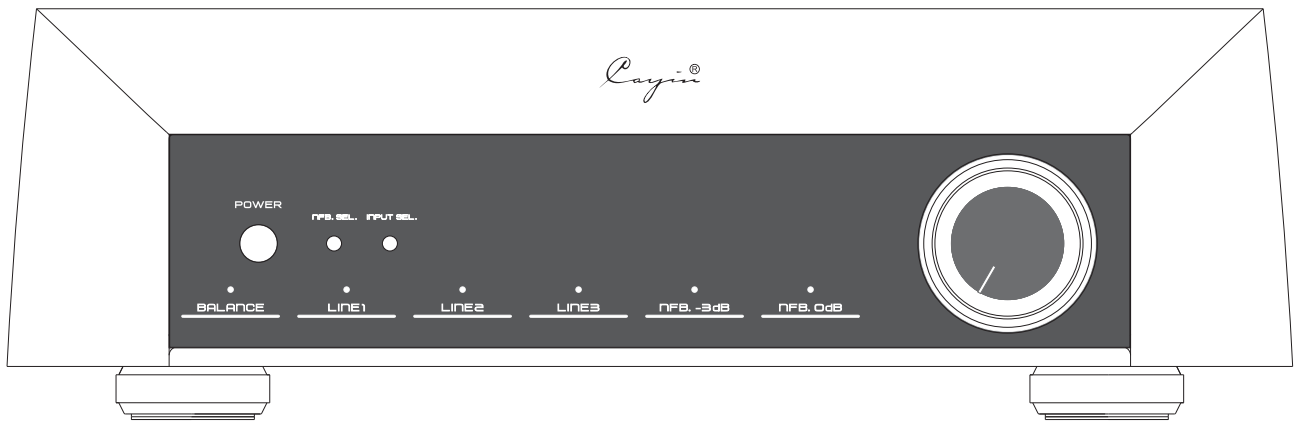


Cayin®



m-11LS | VACUUM TUBE PRE-AMPLIFIER

User's Manual



Thanks for choosing **CAYIN M-11LS** Vacuum Tube Pre-Amplifier and please read the user's manual carefully before installation and operation.

Table of Contents

Table of Contents	1
Package Contents	2
Product Features	3
Safety Precautions	3
Specifications	4
Maintenance	5
Warranty Service	5
Precautions	6
Front Panel	7
Rear Panel	8
Remote Control	9
Installation	10
Tube Replacement	10
Audio Connection	11
Turning on	12
Small Tips	12

NOTE:

CAYIN M-11LS Vacuum Tube Pre-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

Package Contents

Please carefully check the package first and then open it.

Package contents include:

- | | |
|--------------------------|-----------|
| 1. CAYIN M-11LS | 1 piece; |
| 2. Main Fuse | 2 pieces; |
| 3. Power cord | 1 piece; |
| 4. Remote Control | 1 piece; |
| 5. (AAA) Battery of 1.5V | 2 pieces; |
| 6. User's Manual | 1 piece; |
| 7. Hex wrench | 1 piece |

Recommendation:

Keep all packing materials for future use .

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. Please contact our company or our local agent if you've found improper voltage.

All other parts except above are not included.






Product Features


- ◆ The elegant design is like the opera theatre style.
- ◆ EI output transformer with wide bandwidth is applied.
- ◆ Two pieces 6SN7 has been used for voltage amplification.
- ◆ Russian Sovtek 5AR4 tube rectifier, EH6V6GT tube for high voltage regulation, and Choke input circuitry are used to clear up all external disturbance and provide clean power supply.
- ◆ Japanese Takman Carbon Film Audio grade resistors are applied to support exquisite sound.
- ◆ Multicap and SCR Capacitors have been used in the amplifier.
- ◆ The professional XLR socket can transfer the music signal as balance signal to avoid the external disturbance.
- ◆ Aluminous remote control is applied.

Safety precautions

1. Unplug the power cord if you are not going to use the product for an extended period of time.
2. The machine will become hot after working for a long time. 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 when the output is open or shorted.
4. Do not attempt to service this product yourself. Opening the cover may expose you to dangerous voltage or other hazards.
5. 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.
6. Do not place any objects filled with liquids such as vases or some others on the top or around.
7. Clean only with dry cloth.
8. Please move the amplifier carefully not to drop the unit or be subject to other strong shocks.

 CAUTION  RISK OF ELECTRIC SHOCK DO NOT OPEN !	<ul style="list-style-type: none"> ◆ 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 lightning flash with arrowhead symbol is intended to alert user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of a risk shock to persons.

 The exclamation point is intended to alert user to the presence of important operation and maintenance (servicing) instructions accompanying the appliance.

Specifications

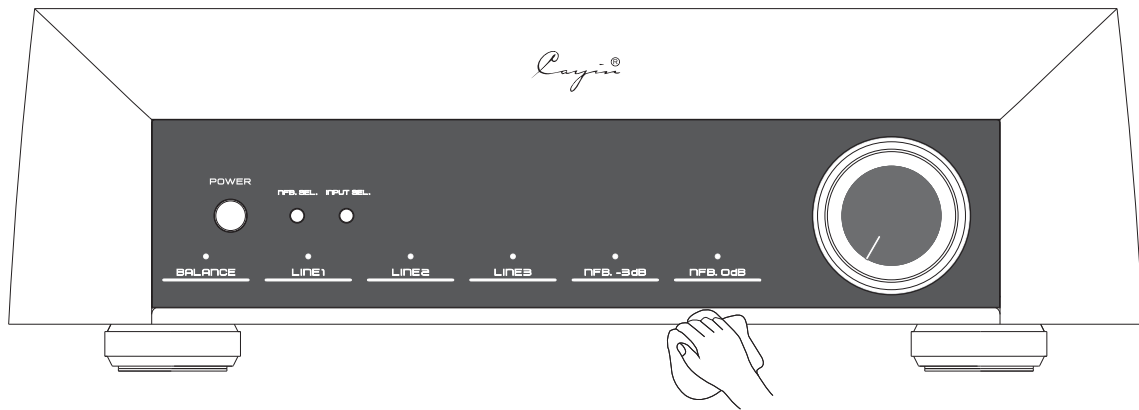
【Output Voltage】	2V
【Plusgaining】	14dB(1KHz)
【Frequency Response】	6Hz~110KHz(-3dB)
【THD】	0.2% (1KHz)
【S/N Ratio】	96dB
【Input Sensitivity】	RCA:430mV,BALANCE:860mV
【Input Impedance】	100KΩ
【Output Impedance】	400Ω
【Max Power Consumption】	70W
【Tube】	EH6V6GTX1、6SN7X4、SOVTEK 5AR4X1
【Input Terminals】	BALANCE、LINE1、LINE2、LINE3
【Output Terminals】	BALANCE、RCA OUT1、RCA OUT2
【WDH】	460×437×147mm ³
【Net Weight】	18kg
【Working Condition】	



Maintenance

NOTE:

- ◆ Use the soft dry cloth to clean up the chassis regularly.
- ◆ Do not use any chemicals for cleaning.



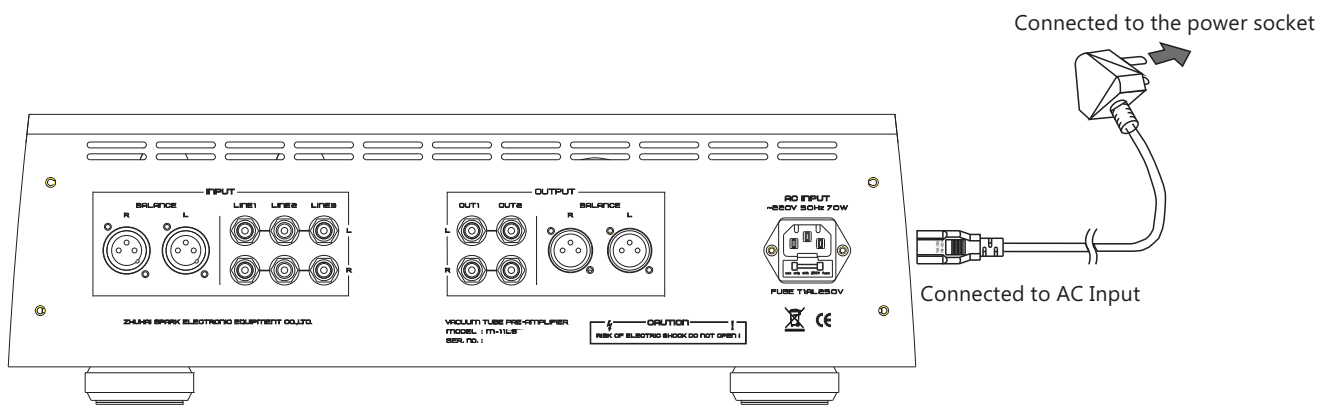
Warranty Service

- 1.This product is warranted for a period of twelve months beginning from the date of purchase.
- 2.The defective product must be returned to your dealer or our company for repairing when your dealer or our company accepts your requirement.
- 3.The warranty doesn't extend to any product that has been opened by you without permission of our

NOTE:

The information in this manual is subject to change without further notice.

Precautions



Connection of power cord:

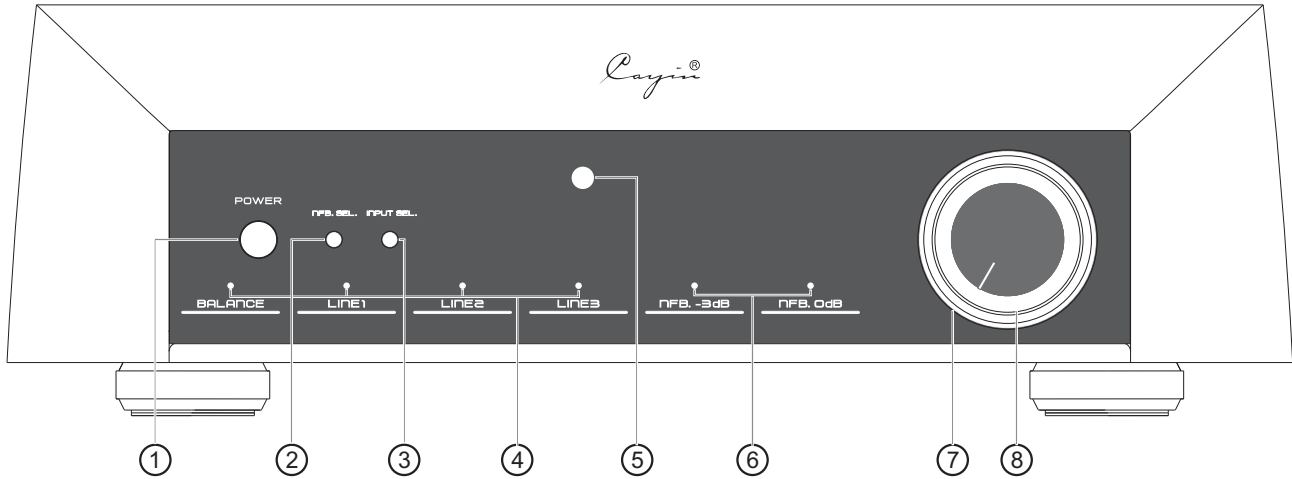
Connect the speaker cables and signal cable first and then insert the power cord into the power socket.

NOTE:

- ◆ Connect the power only after finishing other connections.
- ◆ It is normal that power transformer becomes hot for extended period of operation.
- ◆ Unplug the power cord if you're not going to use the product for an extended period of time.
- ◆ Please make sure corresponding voltage is the same as required. We are not responsible for damage caused



Front Panel



①. Power Switch (POWER) :

Used to switch on/off the amplifier.

②. NFB. Selector (NFB. SEL.) :

Used to choose NFB.-3dB or NFB.0dB working state.

③. Input Selector (INPUT SEL.) :

Used to choose 4 types of audio sources.

Please select corresponding input and corresponding input indicator will be on.

④. Input Selection Indicator:

You can hear sound from BALANCE when BALANCE indicator is on. BALANCE indicator is preset to be on when the machine is turned on.

You can hear sound from LINE1 when LINE1 indicator is on.

You can hear sound from LINE2 when LINE2 indicator is on.

You can hear sound from LINE3 when LINE3 indicator is on.

Cayin M-11LS has memories and it will default last operation

⑤. IR Remote Sensor:

Used to receive the code of remote control.

⑥. NFB. Indicator:

The NFB.-3dB indicator will be on when it is -3dB.

The NFB.0dB indicator will be on when it is 0dB.

Cayin M-11LS has memories and it will default last operation state when turning on.

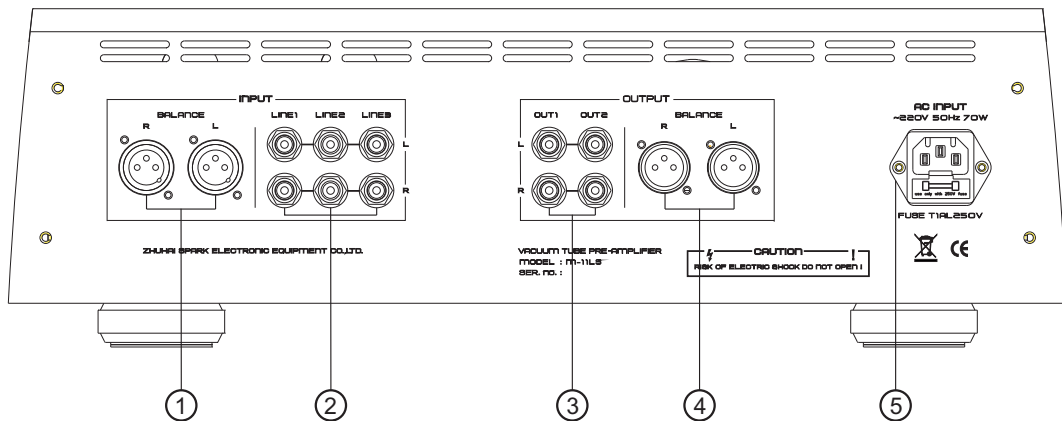
⑦. Working State Indicator/Mute Indicator:

Used to indicate the working state. The indicator will be on when it is working normally.

The indicator will flicker for 30 seconds when it delays to work. The indicator will keep flickering when it is at mute state.

⑧. Volume Knob:

Rear Panel



①. Balance Signal Input Terminal

Used to connect to the balance output terminal of CD player.

②. Input Terminal

Used to connect to the unbalance output terminal of CD player.

③. Output Terminal

Used to connect to the unbalance input terminal of power amplifier.

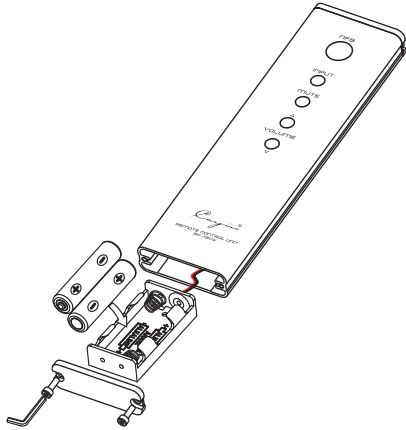
④. Balance Output Terminal

Used to connect to the balance output terminal of power amplifier.

⑤. Power Socket with Main Fuse

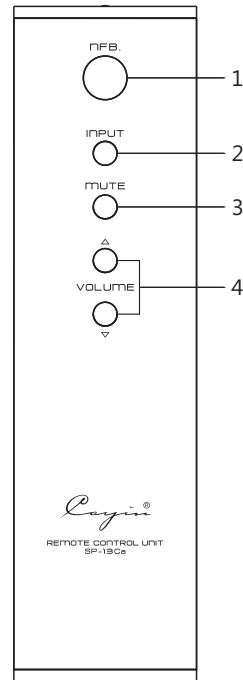
Main fuse is located just below the power socket.

Remote Control

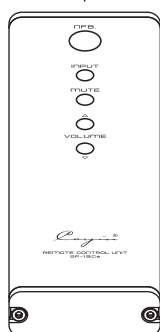
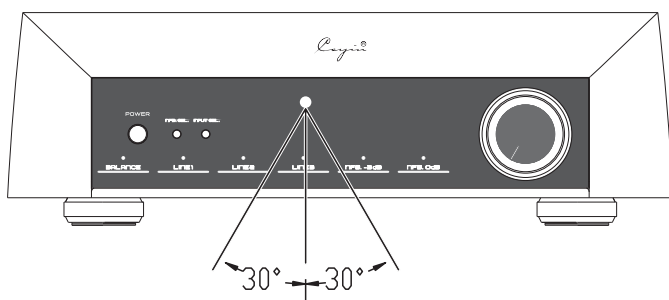


Installation

1. Place the remote control upside down. Screw the rear cover open with the attached hexagon screwdriver.
2. Pull out the battery case carefully (do not break the wires connected).
3. Put in the batteries with correct polarity.
4. Push in the battery case and screw the rear cover



1. NFB. Selector
2. Audio Source Input Selector
3. Mute Button
4. Volume Control Selector



Effective Distance : about 6m

NOTE:

- ◆ Don't drop the remote control. Keep the remote control dry.
- ◆ Replace the batteries timely.
- ◆ Don't mix new and old batteries together and use the batteries with the same specification.
- ◆ Take out the batteries if you don't use the remote control for an extended period of time.



Installation

Carefully read and follow the manual for installation:

- ◆ Do not place the machine near heat sources such as radiators, heat registers or other products that produce heat.
- ◆ In order to avoid being overheated please keep the unit's ventilation open.
- ◆ Do not expose this appliance to rain or moisture.
- ◆ Keep the amplifier in a certain distance so that it can be easily connected.
- ◆ Amplifier should install steadily and make sure all four feet are on the same level.
- ◆ Keep the amplifier over 15cm's distance to the surrounding walls.

NOTE:

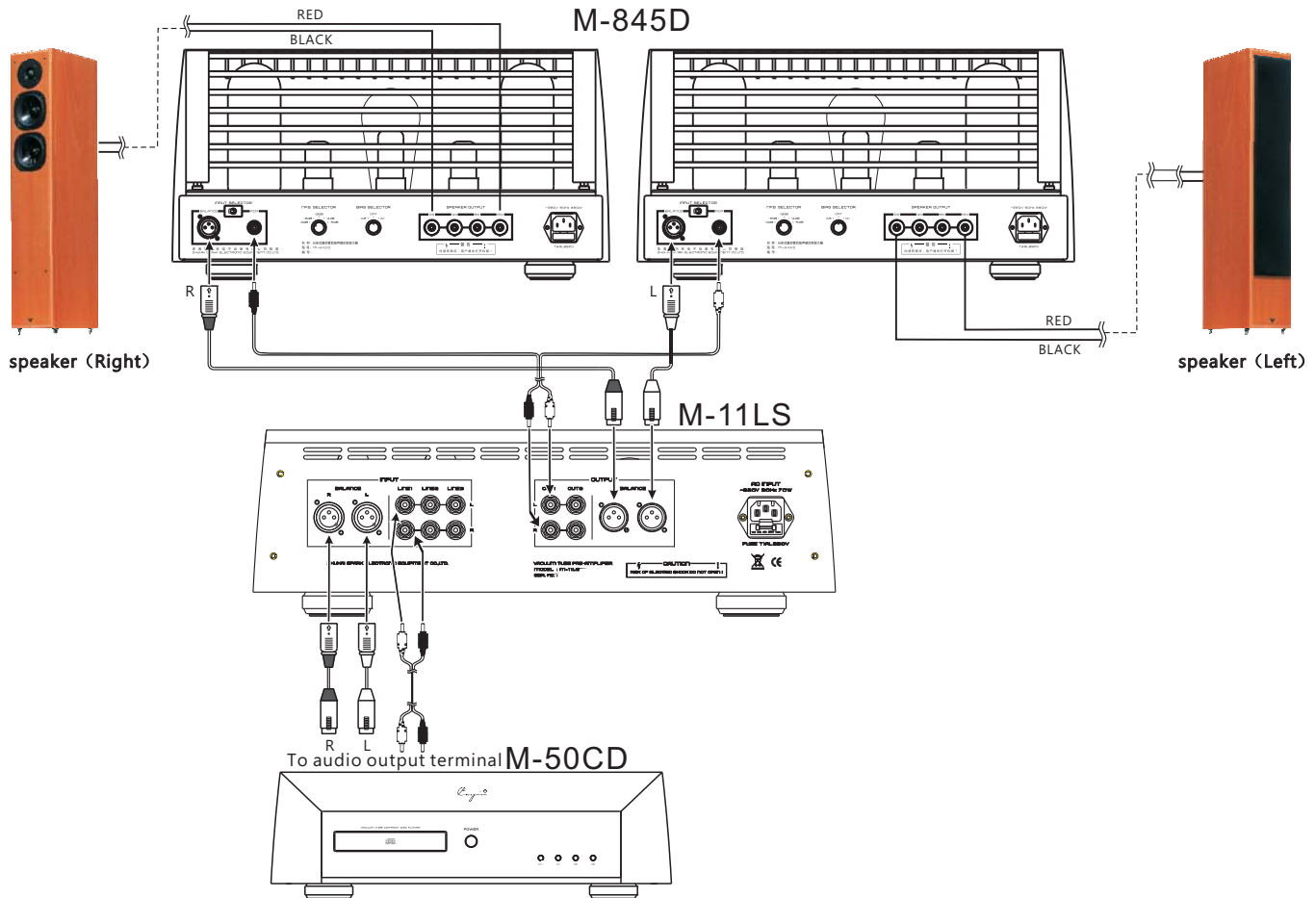
Please make sure local voltage level is matched with the input level of the amplifier, which indicates on the rear panel. Too low or too high voltage may cause problems

Tube Replacement

Tubes for the Machine	Tubes Replacement
6V6GT	6V6
5AR4	GZ34
6SN7	ECC32、CV181、6SN7GT、6H8C、6N8P

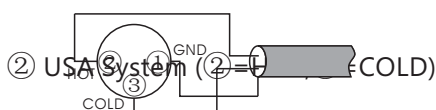
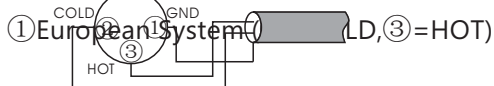
Audio Connection

Connection method of CAYIN M-11LS with other audio equipments Take pictures below for your reference.



BALANCE Socket:

- The BALANCE socket is with XLR input. The functions are following:
 - Music signal is transferred as balance signal without the outside disturbance.
 - Professional XLR connectors are used to raise reliability of connection.
- In the following two systems, professional XLR connectors are used for inside connection.

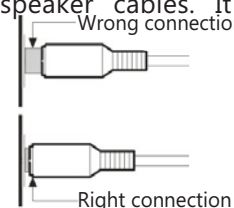


- This amplifier uses the USA System.

If the XLR balance connector is used by European

NOTE:

- Please refer to the manuals of other connected equipments during the installation.
- Do not insert the power cord into the main socket before all other equipments are well connected.
- R refers to right channel while L represents left channel.
- Please take the right guidance for connection as wrong connection may cause noise, low-grade function or damage.
- Do not fasten signal cable together with power cable and speaker cables. It will worsen the



Turning On

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

- Turn on the amplifier, the power indicator will be on and the working indicator will keep flickering.
- The working indicator will be on after 30 seconds. It means that the amplifier is working normally. If the working indicator is off, please turn off the power and contact with our local agent or our company.
- Select the right audio source channel, adjust the volume to a certain position and then you can enjoy the music you prefer.

NOTE :

- ◆ Turn on: CD player- decoder- pre-amplifier- power amplifier
- ◆ Turn off: power amplifier- pre-amplifier-

NOTE:

1. When the audio system is under working state, don't unplug the signal cable or speaker cables, or it will cause damage to the amplifier and other equipments.
2. It should at least take 2 minutes before you turn on the power again, or it will cause damage to the vacuum tubes.

Small Tips

Read the Manual—— Please read the user's manual carefully before installation and operation.

Keep the Manual—— Please keep the manual for future reference.

Warning Signs—— Don't tear off or rub off the serial number.

Operation—— Do the operations as you are instructed in the Manual.

Parts—— If you are going to use parts not supplied by our company like power cord, fuses etc please make sure that parts you used are compatible with the safety requirements. Or it will cause fire or electric shock.

Placement—— Put the amplifier on a level place. Make sure that it doesn't bring damage to the children, adults and the amplifier itself.

Power—— Please make sure the local voltage is the same level as indicated on the rear panel.

Overload—— If the power socket is overloaded with other equipment, it will cause fire or electric shock.

Warranty Service—— Do not open the product and change the components inside yourself. Opening the cover may expose you to dangerous voltage or other hazards. The warranty doesn't extend to any product that has been opened by you without permission of our company.

Troubleshooting—— If any problems when you are using the product, please check according to



Troubleshooting

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 tip to look for the exact reason.

Problem		Cause	Remedy
NO OUTPUT	Power Indicator is OFF.	Power cord is not well-connected.	Check 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.
	Power Indicator 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.		
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.	
Malfunction of Remote Control.	Be disturbed. Low Battery. Obstacles between the amplifier and remote.	Keep away from the source of disturbance. Turn off and restore. Replace with new batteries. Remove the obstacles.	

NOTE: *Rayin*® is the registered trademark of Zhuhai Spark Electronic Equipment Co., Ltd.