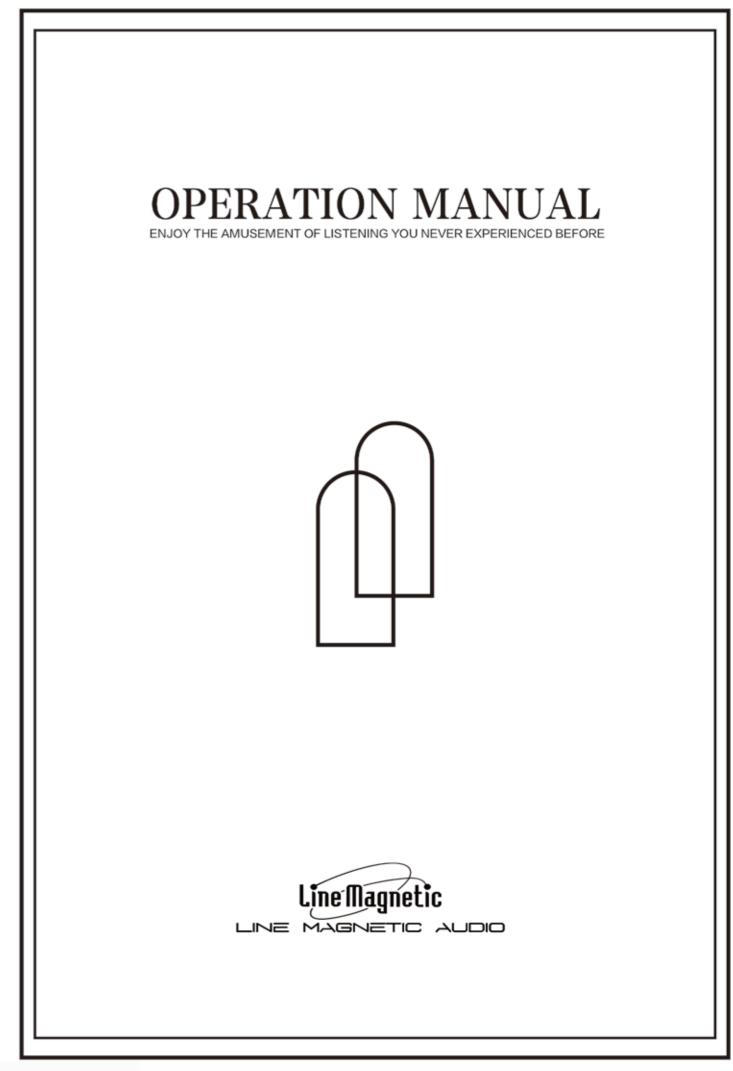


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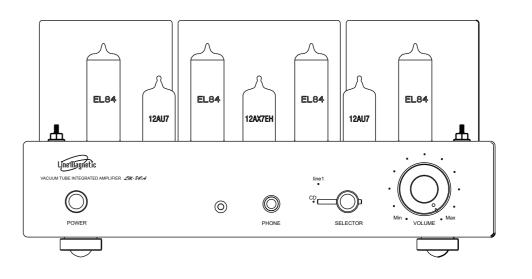




OWNER'S MANUAL

MODE D'EMPLOI BEDIENUNGSANLEITUNG MANUAL DEL USUARIO MANUALE DI ISTRUZIONI

LM-84IA



Thank you for choosing a Line Magnetic product. Its implementation has been our know-how, both in terms of design to the manufacturing. Electronic components and mechanical parts correspond to the selection criteria of very high quality. Operation and finish of each product have been checked before delivery. To obtain best results, please read the advice contained in this document.

Please read this manual carefully before installation and operation.

In order to prevent damage during transportation, the amplifier and its tubes are packed with protective foam, please remove these foam pieces before operating your amplifier to avoid any risks!

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Troubleshooting

Please follow the instructions in this manual to keep the amplifier working in a reliable and safe manner. Sometimes problems could be caused by other related equipment, please check the connections.

If you experience a problem with this unit, please check the following items before requesting service. If it still does not operate correctly, contact the retailer where you purchased the unit.

For repair, during or after the warranty, please contact your local dealer.

Problem		Cause	Solution
	Power LED is OFF.	Power cord is not well-connected.	Please check the power cable connection or power outlet connection.
No Output		Main fuse is out.	Replace with the same type and value fuse.
		Troubles of inner parts or components.	Please contact your local dealer.
	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 connectors and/or switch to the proper input
Sour	nd distortion.	High input signal level.	Turn down the volume to suitable position.
			Replace the signal input cable.
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 your local dealer.
Stereo image 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 control.		Disturbed by external devices.	Keep away from the disturbance (ie: microwave oven) and restart the amplifier.
		Batteries of the remote control are low.	Please replace the batteries.
		Obstacle is located between the remote control and the amplifier.	Move the object that blocks the IR rays between the remote control and the IR sensor located on the front of the amplifier.

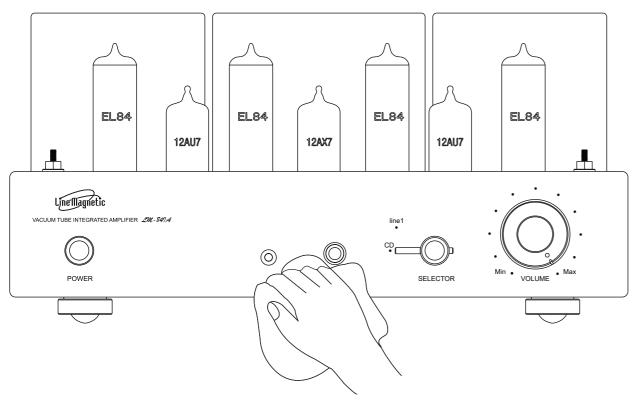
The LM-84IA has been designed and manufactured with parts that we manufacture to achieve an optimal result. We disclaim liability for potential problems or damage to the amplifier in the event of replacement of any of these original parts.

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.

Tube replacement

Basics tubes	Common replacements
12AX7	12AX7EH、ECC83、E83CC、CV4004、ECC803、5751
12AU7	12AU7EH、ECC82、5814、6189、CV4003
EL84	6P14 ,6BQ5,6Π14Π

Maintenance



WARNING

As a precaution, it is best to unplug the unit before handling and ensure the heat generated by the product has been properly dissipated.

Cleaning

- 1. Use soft dry cloth to clean the amplifier.
- 2. Refer to the safety precautions if you are going to use chemically treated cloth for cleaning.
- 3. Use a soft cloth with neutral detergent first and then wipe with a dry cloth.

WARNING

Make sure that the device is not plugged into the mains before making any connections. It is also recommended to turn off or disconnect all other devices associated while making connections to the product.

Keep all packing materials for future use and please fill in the warranty card for registration of warranty. Please make sure that your local voltage is the same as indicated on the rearpanel. A too low or too high voltage can cause serious damage to your amplifier. In case you find an improper voltage, please contact our company or your local dealer.

Package content

1x LM-84IA

2x Fuses

1x Detachable power cord

1x Remote control

1x This user manual

Product features

- 1. Twelve watts per channel, Class AB Integrated Stereo Amplifier with EL84 output power tubes, 12AX7 and 12AU7 input tubes. Tubes we selected for the amplifier is Electro Harmonix EL84.
- 2. Well selected and matched tubes. No matter it is the Pre-stage or power stage of tubes we select and choose the best matching ones to use on the same unit of amplifier to get the best sound quality out of it.
- 3. One pair of Line input, One CD Input, One Sub Output and speaker terminals for 4, 8 ohm speakers are located on the back panel.
- 4. With Sub Output you can connect with Subwoofer to enjoy more bass out of the system.
- 5. Headphone Output is one of another features we have included in LM-84IA amplifier so that you can both enjoy your speaker system and Headphone system.
- 6. Specially designed Toroid transformers made of Z11 Core for power supply and two Japanese Audio grade EI types of output transformers with wide bandwidth are applied. All transformers and chokes are encapsulated and installed separately on the amplifier to avoid and lower the disturbance between each other.
- 7. Audio Grade of components for LM-84IA: Japanese ALPS volume potentiometer, Silver plated Signal cable, Customized high end coupling Capacitors, etc.
- 8. RCA terminals are specially designed by Line Magnetic for the amplifier. It can reduce the signal loss during transition and guarantee the sound quality.
- 9. Standard with remote volume control.
- 10. SoftStart and time-delay circuit. (30 seconds).

Specifications

Power Output:12W + 12W Cathode Mode: 30W + 30W	Working Conditions: Temperature: 0°C to 40°C Moisture: 20% to 80%
Frequency Response : 20Hz-30KHz (±1.5dB)	Storage conditions: Temperature: -20°C to 70°C Moisture: 20% to 90%
Input Sensitivity: Line: 250mV Pre-in: 1000mV	THD: 1% S/N ratio: 87dB
Dimensions (W x H x D) : 360 x 290 x 160 mm	Input Impedance: $100k\Omega$ Output Impedance: 4Ω , 8Ω
Tubes: 12AX7 x 1、12AU7 x 2、EL84 x 4	Net Weight: 13.75kg
Power Requirements: 230V ±5% (50Hz)	Power Consumption: 100W

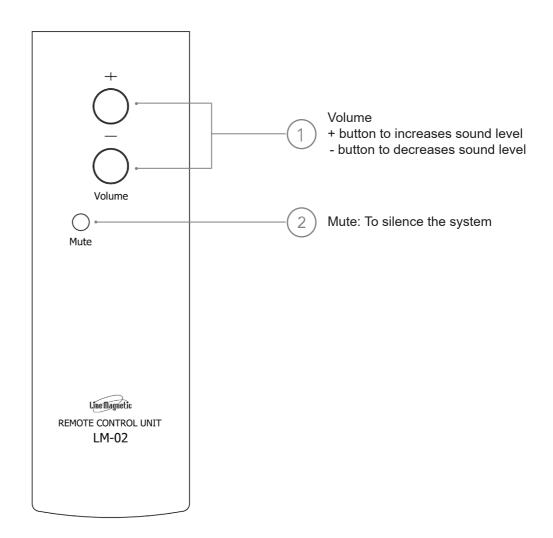
Safety instructions

We invite you to read the instructions on the proper use of your product carefully. They will ensure the proper functioning of the latter and it safely.

- Do not use this device in a wet area, near water, do not expose to rain or moisture.
- Do not place any objects filled with liquids such as vases or some others on the top or around.
- Do not move the product if it has just been used or if it is still hot.
- Do not install near heat sources. To avoid being overheated please keep the unit's ventilation open.
- Never cover the ventilation of the unit.
- Amplifier should install steadily and make sure all four feet are on the same level.
- Keep the amplifier in 15 cm's distance to the surrounding walls.
- 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.
- Clean only with a dry cloth. As a precaution, it is best to unplug the unit before handling and ensure the heat generated by the product has been properly dissipated.
- Please move the amplifier carefully not to drop the unit or be subject to other strong shocks.
- Unplug the power cord if you are not going to use the product for an extended period of time or during lightning storms.
- Take great care of electrical connections (power cord and plugs). In particular, do not walk on, or press the power cord, specifically at plugs, power plant and the output of the power supply.
- Be sure to use an appropriate power supply to the power jack on the unit outlet. Especially if the device is equipped with a ground plug, it is necessary to use it.
- Forbidden to operate as unloaded.
- Forbidden to operate when the output is open or shorted.
- Do not attempt to service this product yourself. Opening the cover may expose you to dangerous voltage or other hazards.
- Use only spare parts and accessories recommended by Line Magnetic.
- We are not responsible for any problems caused by checking and opening without permission of our company. For service, please contact a local dealer or qualified service technician.

Remote control

The amplifier comes with LM-02 remote control.



Installation and replacement of the batteries

Installation

- 1. Remove the screws of the remotes back cover.
- 2. Insert two 1,5V AAA batteries using the + and indicators to insert them in the correct position.
- 3. Screw the batterie cover back into place.

Replacement of the batteries

- When the batteries are low, please replace them with new
- Do not mix the new batteries with old ones.
- Please use high quality batteries, these can prevent leakage of electrolyte.

Turning on

IMPORTANT - BEFORE TURNING ON THE AMPLIFIER

Make sure all connections (first, connect the speaker cables, then the cables from your sources, and plug the power cable into the AC outlet) are valid, and the stability of your power supply AC 230V - 50Hz.

Please make sure corresponding voltage is the same as required. We are not responsible for damage caused by misuse of unsuitable voltage.

Startup procedure

- 1- Set the VOLUME of the amplifier to zero (potentiometer totally on the left).
- 2- Switch on the amplifier via Power switch located on the front of the amplifier. The LED lights up on the front panel and indicates that the amplifier is working.
- 3- After 30 seconds, the orange led blinking will stabilize to indicate that the amplifier is ready for use.
- 4- Select the source you want to listen to with the SELECTOR button located to the right of the front panel.
- 5- Adjust the VOLUME knob as you like to enjoy your music.

General observations

- It is normal that power transformer becomes hot for extended period of operation.
- Unplug the product during lightning storms or when not in use for a long time.
- To prevent damage to the amplifier never disconnect the speaker cables while the unit is ON.
- In order to protect the tubes please re-switch on the amplifier after turned off in two minutes.
- This product is designed and manufactured with our original parts for reaching the best results. We are not responsible for problems and damages caused to the amplifier by non-original replacement parts.
- 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've bought.

WARNING: Please make sure corresponding voltage is the same as required. We are not responsible for damage caused by misuse of unsuitable voltage.

Recommandations

Input voltage level of the amplifier is 230VAC ±5% and please make sure that your local voltage is the same as indicated on the rear panel. A too low or too high voltage can cause serious damage to your amplifier. In case you find an improper voltage, please contact our company or your local dealer.

With headphones, do not use it to excessive noise. Otherwise, prolonged listening at high volume levels may cause permanent damage to your hearing.

When disposing of used batteries, please comply with governmental regulations or rules defined by the public statements relating to the environment applicable in your country.

Never expose the batteries (battery pack or batteries installed) to excessive heat such as sunshine, fire, etc ...

Recycling product

At the end of its useful life, this product should not be disposed of with regular garbage, but returned to a collection point for the recycling of electrical and electronic components. This point is emphasized by the symbol on the product, the instruction manual and on the packaging.

The materials can be reused in accordance with their markings. Through reuse and recycling of raw materials or any other form of recycling, you make an important contribution to environmental protection. Your municipality can tell you where is the point of the nearest collection site.

Glossary



This symbol alerts the user to the presence of «dangerous voltage» uninsulated which may pose a risk of electric shock to the user.



This symbol alerts the user that the documentation that comes with the device contains important instructions for maintenance and proper use of the product.



The CE mark indicates that this product complies with European directives called «low voltage» (2006/95/EC), Electromagnetic Compatibility (2004/108/EC) and apply eco-design requirements for energy products (2009/125/EC) when the appliance is installed and used in accordance with the user manual.

For continued compliance only Line Magnetic accessories must be used with this product and servicing must be performed by specialized and qualified staff.



The WEEE symbol is that of the European Union regarding the recycling of electrical and electronic equipment. It indicates that this product contains electrical and electronic components that can be reused, recycled or recovered. Therefore this product should not be disposed of in your regular trash. Thank you to return the unit or contact your authorized dealer for more information.

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Location and precautions

Avoid placing it in direct sunlight or near a heat source. No source of light shall be placed on the apparatus. Also avoid all sources that could cause vibration, dust, cold or moisture. The recommended ambient temperature range is 5-35 °C.

The device must be installed on a stable, level surface. Do not place the unit on an unstable surface or shelf. The unit may fall, causing serious injury to a child or adult as well as serious damage to the product. Do not place other equipment on top of the unit.

Due to stray, turntables or CRT TVs magnetic fields should not be located near the unit to avoid possible interference.

Power sources

The unit should be operated only from the type of power source indicated on the label. If you are unsure of the type of power available to you, thank you to contact your dealer or the company responsible for the power supply in your area.

Turn off device if you do not intend to use this unit for a long time.

In case of prolonged absence from home, it is recommended to unplug from the electrical outlet.

Make sure each cable is correctly inserted. To prevent hum or background noise, do not mix different other antenna cable with the power cord or speaker wires.

Warranty

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

Your Line Magnetic product is covered by the legal warranty in force in your country. You may also have other rights which vary from country to country, state to state.

The guarantee of the product is linked to the exclusive use of tubes supplied by the official distributor and in accordance with the assembly technical specifications.

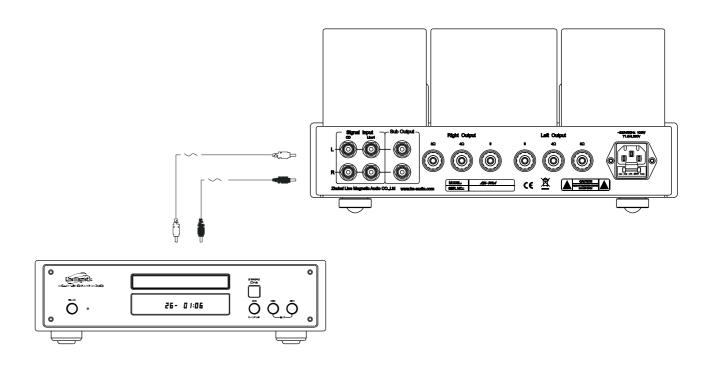
In addition, you benefit from a commercial guarantee offered by BC Diffusion on the products Line Magnetic.

For details on this warranty, please refer to the information available on www.line-magnetic.eu.

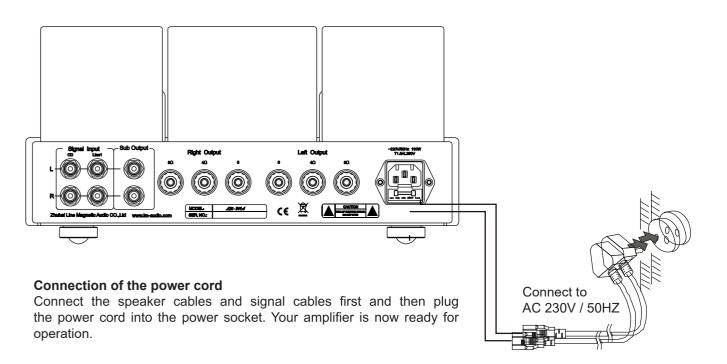
Audio connection

Connect other audio equipment to your amplifier

Use a RCA (Cinch) stereo audio cable (red and white plugs) to connect your sources.



- 1- During installation please always refer to other product's operation manuals.
- 2- Please do not insert the power cord into the main socket only if all other sources are well connected.
- 3- «R» refers to the Right channel while «L» represents the Left channel.
- 4- Please take the right guidance for connection as wrong connection may cause noise or low grade function. Do not also fasten signal cables together with other cables just like the power cables to avoid disturbance.



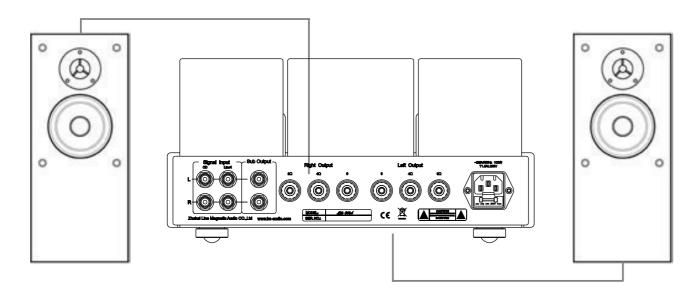
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Speaker connection

WARNING: Make sure that the device is not plugged into the mains before making any connections. It is also recommended to turn off or disconnect all other devices associated while making connections to the product.

Never operate the amplifier without having first connect the loudspeakers. The principle of operation amplifier tube is different from transistor amplifier; without «charges» energy amplifier is dissipated in transformers out what is harmful for the durability of the product.

Check the impedance of your speakers. When using a pair of speakers, you can use speakers with an impedance of between 4 and 8 ohms. BE SURE TO USE THE MATCHING TERMINALS.

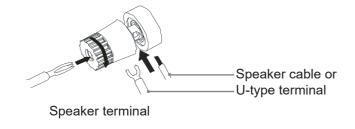


Connect your speakers to the amplifier

- 1- Unscrew the terminal by hand.
- 2- Insert the loudspeaker cable (refer to the diagram below).
- 3- Screw the terminal.
- 4- Repeat the same operation for the other 3 terminals.

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.



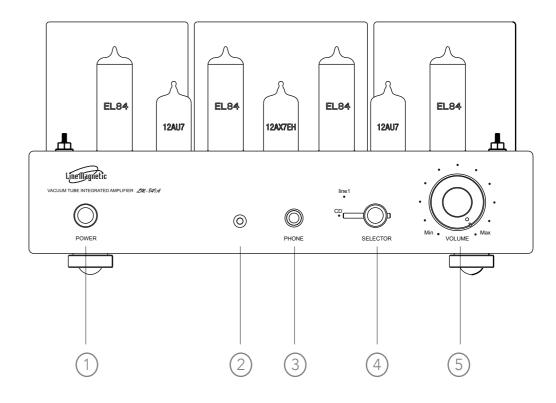
Make sure that no wires are not insulated can bypass the speaker outputs. Make sure that the speaker terminals are tight enough to ensure a good electrical connection. If the terminal screws are not tight enough, the sound quality may be affected.

Use only dedicated wire to the speaker (a section of 1.5 mm² or more is recommended especially if the cable length is greater than 3m).

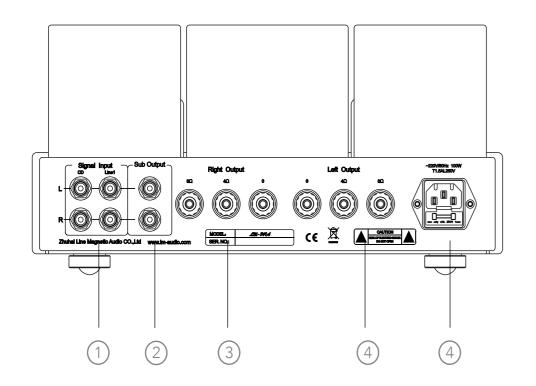
Functions descriptions

Input voltage level of the amplifier is 230VAC ±5% and please, make sure that your local voltage is the same as indicated on the rear panel. A too low or too high voltage can cause serious damage to your amplifier. In case you find an improper voltage, please contact our company responsible for the power supply or your local dealer.

Front panel



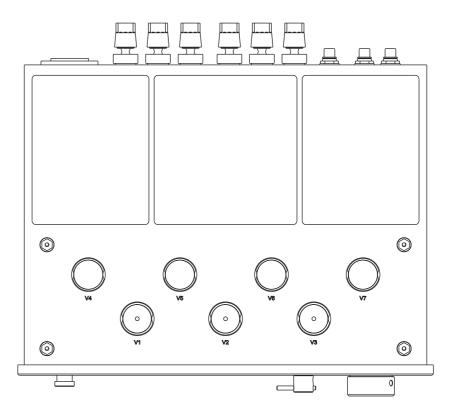
- 1) Power: ON/OFF(Turn on or turn off the amplifier.
- 2 IR Remote Sensor: : React according to the orders of the remote. It is essential that there are no obstacles between the remote control and the sensor.
- PHONE: Headphone Output. With Headphone Output you can enjoy your Headphones.
- (4) Selector: Source selection between CD and Line1 Inputs.
- Volume Knob: This volume knob adjusts the output volume of the amplifier sent to the loudspeaker or headphone. Volume up to the right while volume down to the left.



- 1 Signal input: Inputs (RCA plugs) are for connecting a «line level» source to your amplifier. It is designed to receive an «analog» signal (as opposed to «digital» signal). To connect your source we are using a traditional «RCA» cable, they are usually identified by a color code «RED» to the RIGHT channel and «WHITE» to the LEFT channel.
- 2 Sub Output: Used to connect with Subwoofer.
- Right output: Connect the speaker to the terminals marked RIGHT «+ R» and «R -» ensuring that «R +» is connected to the «+» terminal of the enclosure and «R -» is connected to the terminal «-» the same enclosure.
- Left output: Connect the LEFT speaker to the terminals marked «L +» and «L -» by doing the same. Important Note: Check the impedance of your speakers. When using a pair of speakers, you can use speakers with an impedance of between 4 and 8 ohms. BE SURE TO USE THE MATCHING TERMINALS.
- (5) Important Note: Check the impedance of your speakers. When using a pair of speakers, you can use speakers with an impedance of between 4, 8 and 16 ohms. BE SURE TO USE THE MATCHING TERMINALS.

Power Socket with main fuse: Main fuse is located on the rear of the amplifier just below the power cord socket. Replace with the same type and value fuse.

Once all connections to the amplifier have been made, connect the power cable to an electrical outlet and turn on the unit as it is ready for operation.



Note: 1. Be careful of the high temperature of the tubes during operation.

2. Power tubes must be matched ones for well function.

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