Thanks for choosing our Line Magnetic LM-518IA 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-518IA 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**

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

1. Line Magnetic LM-518IA  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**

- Twenty-two watts per channel, Single Ended Triode design, Pure Class A Integrated Stereo Amplifier with 845 output power tubes.
- All tube Integrated with 12AX7 input tubes for voltage amplification, 6P3P driver tubes, 5AR4 rectifier tubes and 845 output tubes. Driver tubes 6P3P can also be replaced by different kinds of driver tubes and you can select which tubes you prefer judging by different sounds.
- 4 pairs of inputs and speaker terminals for 4, 8 and 16 ohm speakers are located on the back panel.
- User bias control has been used for bias adjustment and one meter has been added to the front plate to allow you to monitor bias with ease.
- External Hum Balance adjustment for sound adjustment.
- Specially designed EI transformers for power supply and two EI output transformers with wide bandwidth are applied.
- Japanese ALPS volume potentiometer, German N-cap coupling capacitors etc Audio grade components have been applied.
- Standard with remote control.
- Hand made construction with the finest point-to-point wiring.
- Soft Start and time-delay circuit. (30 seconds).
### Specification

- **Power output**: 22W + 22W
- **THD**: 1% (1kHz)
- **Frequency response**: 10Hz~50kHz (-1.5dB)
- **S/N Ratio**: 87dB A Weighted
- **Input Sensitivity**: 200mV (Integrated)
- **Input Impedance**: 100kΩ
- **Dimension (WxDxH)**: 430mmx365mmx250mm
- **Output Impedance**: 4Ω, 8Ω, 16Ω
- **Tube Complement**: 12AX7 x2, 6P3P x2, 845 x2, 5AR4 x1
- **Net Weight**: 35kg
- **Power Requirements**: ~230V ±5% (50Hz)
- **Power Consumption**: 320W
- **Working Condition**: Temperature: 0℃~40℃ Moisture: 20%~80%
- **Storage Condition**: Temperature: -20℃~70℃ 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. 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

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.

CAUTION
RISK OF ELECTRONIC SHOCK
DO NOT OPEN

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.

Note: Input voltage level of the amplifier is 230VAC ~ ±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:

1. Input Selector: Source selection among Pre-In, LINE1, LINE2, and LINE3 Inputs.
2. Volume Knob: Volume up to the right while volume down to the left.
3. Ampere Meter: Monitor the currency of the power tubes.
4. IR Remote Sensor: React according to the orders of the remote.
5. Indicator for Operation/Mute: Indicate the state of the amplifier. Orange means operation and if turning on it will twinkle for 30 seconds during the time delay. If it is muted the indicator will twinkle too.
6. ON/OFF: Turn on or turn off the amplifier.
Functions Description

Rear Panel:

1. Signal Inputs: used for source input.

2. Right Channel output: used to connect with the right channel of the speakers.

3. Left Channel output: used to connect with the left channel of the speakers.

4. 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.
**Functions Description**

Overview from the top

![Amplifier Image]

**V1, V2: 845 Power Tube**

**Bias Adjustment for V1, V2:**

Turn on the amplifier and wait for around ten minutes. Choose and turn the Bias Current selector from its “OFF” position to V1. Turn down V1 BIAS ADJ. to its MIN. position first and then adjust the bias current. Inspect the ampere meter on the front panel and make sure the pointer is at the position showed as in the pictures below. (Suggested Bias Value: 70mA) If you have any questions please contact with our company or local service agent.

Bias current adjustment for V2 is the same as for V1. Please adjust the corresponding BIAS ADJ. and make sure all the bias level of V1, V2 are the same. In order to make sure the amplifier works in its best condition please re-test each tube's operating state after used 150 hours.

**V3, V4: 6P3P  V5: 5AR4  V6, V7: 12AX7**

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**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.
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

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

Description

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**

<table>
<thead>
<tr>
<th>Tube Basics</th>
<th>Common Replacements</th>
</tr>
</thead>
<tbody>
<tr>
<td>12AX7</td>
<td>12AX7EH, ECC83, E83CC, CV4004, ECC803, 5751</td>
</tr>
<tr>
<td>6P3P</td>
<td>*6п3C, *6л6C, 6L6G/GT, 1614, 1619, 1622</td>
</tr>
<tr>
<td>845</td>
<td></td>
</tr>
</tbody>
</table>

**Maintenance**

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

**Warranty Statement**

Terms & Conditions:

1. Limited Warranty: One-year limited warranty from the date of purchase except vacuum tubes which are warranted for six months.

2. 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.

3. 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.

4. 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.

5. 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

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.

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>NO OUTPUT</td>
<td>Power LED is OFF.</td>
<td>Power LED is OFF.</td>
</tr>
<tr>
<td></td>
<td>Power LED is ON.</td>
<td>Power LED is ON.</td>
</tr>
<tr>
<td></td>
<td>NO signal input</td>
<td>NO signal input</td>
</tr>
<tr>
<td></td>
<td>Volume is at ZERO</td>
<td>Volume is at ZERO</td>
</tr>
<tr>
<td></td>
<td>Noise output</td>
<td>Noise output</td>
</tr>
<tr>
<td></td>
<td>Sound field Positioning is not so good.</td>
<td>Sound field Positioning is not so good.</td>
</tr>
<tr>
<td></td>
<td>NO reaction to the remote</td>
<td>NO reaction to the remote</td>
</tr>
<tr>
<td></td>
<td>Ground of input signal cable is open or bad contact of the input cable</td>
<td>Ground of input signal cable is open or bad contact of the input cable</td>
</tr>
<tr>
<td></td>
<td>Components or circuits are in trouble</td>
<td>Components or circuits are in trouble</td>
</tr>
<tr>
<td></td>
<td>Signal input cables or speaker cables are wrongly connected</td>
<td>Signal input cables or speaker cables are wrongly connected</td>
</tr>
<tr>
<td></td>
<td>Disturbed by external instruments</td>
<td>Disturbed by external instruments</td>
</tr>
<tr>
<td></td>
<td>Battery is out of electricity</td>
<td>Battery is out of electricity</td>
</tr>
<tr>
<td></td>
<td>Obstacle is located between the remote and the amplifier</td>
<td>Obstacle is located between the remote and the amplifier</td>
</tr>
</tbody>
</table>

1. Please check the power cable connection or power outlet connection
2. Replace with the same type and value fuse
3. Please contact with local agents or our company.
4. Turn up the Volume
5. Check the function of the sound source
6. Check the input selection and switch to the proper input.
7. Turn down the volume to suitable position
8. Replace the input signal cable with a new one
9. Please contact with local agents or our company.
10. Reconnect it as suggested in the manual
11. Keep away from the disturbance and restart the amplifier.
12. Replace the battery with new ones
13. Remove the obstacle

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