Thank you for using Cayin PHONO-ONE vacuum tube phono pre-amplifier. Please read this operation manual carefully before using it.

I SPECIFICATIONS

■ Nominal input sensitivity	4mV
■ Maximum input	40mV
■ Nominal output	2000mV
■ Maximum output	20V
■ Gain (1KHz)	54dB (MC high) 63 dB (MC low)
■ Input resistance	100Ω (MC high) 47Ω (MC low)
■ Signal to Noise	87dB
■ Distortion	0.1 %
■ Frequency response	+25 dB /0dB /-25 dB 10Hz-1KHz -25KHz
■ Power requirement	AC 120V±5%, 50/60Hz
■ Weight	13 kg
■ Dimension	425×120×310mm (W×H×D)
■ Power consumption	15W

II OPENING THE PACKAGE

Please check the carton carefully whether there are any damages before you open it. Put it on a flat surface with the arrow upward. Rip away the sealed tape and open the carton, then you'll find:

① A phono pre-amplifier of PHONO-ONE,
② An operation manual,
③ A warranty card,
④ A power supply cord,
⑤ Two fuses,

Note: Please fill out your warranty card in time, and hand it in to your dealer or send it to the sales department of our company to ensure the after-sales service.

Note: Be sure to use at rated voltage. Please check whether the rated voltage marking on the back plate corresponds to your line voltage. If not, please contact your dealer.

Suggestion: Please keep the carton and the other wrappings well, perhaps you'll use them when move the amplifier.

III OPERATION

If you are installing your unit for the first time, we suggest you adjust the volume

of your line level preamp or integrated amplifier to the lowest position before turning it on (by the way, that is not bad advice anytime you are turning on your system).

Generally, we recommend turning on your turntable and the Phono Pre-amplifier *before* turning on your preamplifier and amplifier. This simple safeguard insures any accidental power spikes do not get amplified and hurt your speakers.

Flip the Phono pre-amplifier switch on, and the power indicator light will illuminate immediately. If the power indicator light fails to go on, you do not have power to the unit and you should refer to the troubleshooting section.

Assuming the power indicator light is on; the tubes will warm-up to a normal operating temperature in 20 to 30 seconds. After the 20 – 30 second wait, turn on your preamp and the amplifier (or integrated amplifier if you use one). Slowly turn up the volume, sit back, relax and enjoy one of the finest tube phono stage in the business.

When you are done listening to your system we suggest you turn off the amplifier first, then the preamp and finally the phono stage and the source.

IV Warning

- Be careful when carrying in order to avoid damaging the vacuum tubes and the other components.
- To reduce the risk of electric shock, don't remove the cover.
- Don't attempt to repair the product by yourself.
- No user serviceable parts inside. Refer servicing to qualified service personal.
- Keep liquid away from the amplifier. If you spill liquid into the unit, pull out the power plug at once and consult your dealer.

V WARRANTY SERVICE

- ▲ This product is warranted for a period of twelve months beginning from the date of purchase.
- ▲ To obtain warranty service, the warranty card bearing your dealer's chop or signature must be return to your dealer or our company within ten days from the date of purchase.
- ▲ The defective product must be returned to your dealer or our company for repairing when your dealer or our company accepts your requirement.
- ▲ The warranty doesn't extend to any product that has been opened by you without permission of our company.

VI DIFFICULTIES

Basic troubleshooting of an phono pre-amplifier is similar to troubleshooting of any other electrical or electronic equipment. Always check the most obvious possible causes first. To give you a few ideas of what to look for, check the following.

Problem	Cause	Remedy
Power indicator light does not come on when power switch is toggled on.	No power at the receptacle. Test by plugging in a light or appliance that you know works. The power cord is not plugged in. Fuse may be broken.	Check and reset or replace the appropriate breakers or fuses. Insure both ends of the power cord are securely plugged in. Replace the fuse with one of the spare fuses.
No sound when the volume is turned up. Make sure the volume is turned up and be careful not to turn the volume up all the way (that should not be necessary and may hurt your amp or speakers)	Source selector is not set to the source that is playing. MM or MC selector is not flipped to the correspondence input jacks.	Make sure the volume is not turned too loud and use the input selector to try the other two inputs. You may need to adjust the cabling from your sources to better reflect the input source selector labels.
The system sounds strange. In particular, it has a poor imaging (soundstage) or sounds “out of phase”.	Check that you did not mix up the “Left” and “Right” input cables from your source and the output cables to your amp. Also double check the speaker terminals are not reversed.	Simply reverse the input and/or output cabling if they are found to be incorrect. Do the same for the speaker(s) if needed.
The sound is way too loud or too soft and volume control does not seem to work correctly.	This could be a cabling problem. The cable itself may be faulty. It is not recommended to have power cords or video cables running in parallel (or bundled with) your input and output cables. They should be separate. You may have plugged the MM to one of the MC input jacks or vice versa.	To check if the cable is faulty, try swapping out one set of cables for a good set. Repeat the process for each of your sources. Finally, replace the outputs to the amp. If the signal cables are running parallel with a number of video and power cables separate them. Correct the connection of MM or MC.
Hissing, popping, and/or crackling noise from the speakers	Bad tube(s)	Try inserting a spare tube if you have one. Otherwise, contact Morningstar Audio.

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VIII NOTICE

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

IX Diagram

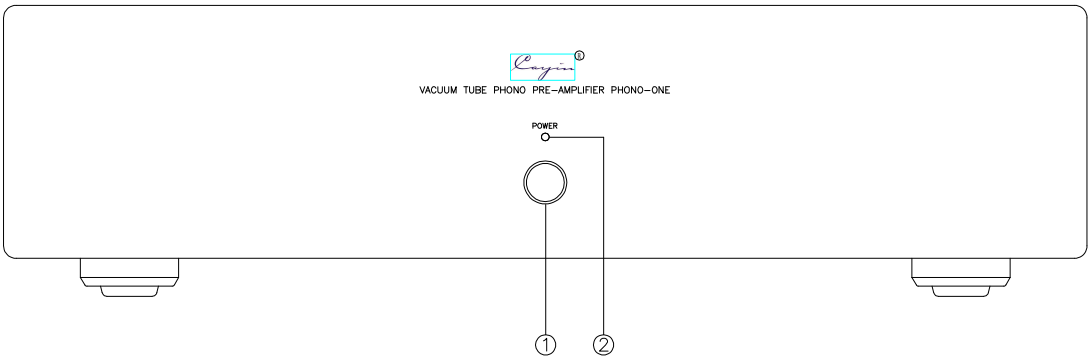

Diagram 1. PHONO-ONE front panel

① Power switch ② Power indicator

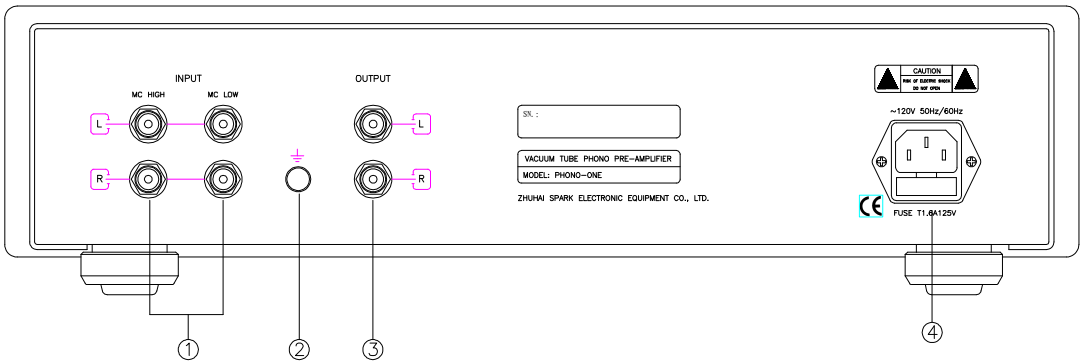

Diagram 2. PHONO-ONE rear panel

① MC input jacks
② Ground binding pole
③ Output jacks
④ Power socket (with fuse)

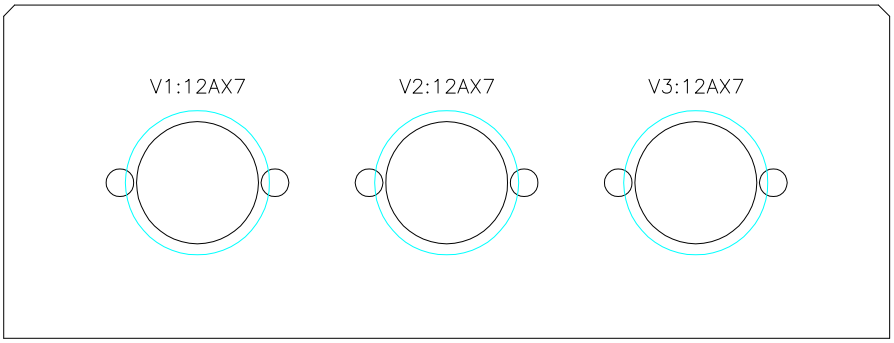

Diagram 3. Vacuum Tube Installing

V1, V2, V3: 12AX7