# ALLNIC AUDIO

# HA-3000 Pre-Preamplifier (Head Amplifier)


# OWNER'S MANUAL

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Thank you for purchasing this Allnic Audio HA-3000 Head Amplifier. We are certain your trust in Allnic Audio and Hammertone Audio, as well as your appreciation for the sound of this high-quality device, will be rewarded by its excellent operation for years to come.

Please read this entire manual before you connect the HA-3000 head amplifier to the other components of your system.

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** Information and specifications for the Allnic Audio product described in this manual are subject to change without notice.

# TABLE OF CONTENTS:



Please read about **SAFETY** before you attempt to use the HA-3000 Pre-preamplifier (Head Amplifier) - we care about our customers and the equipment, and we want you to enjoy this product for a long time!

**INTRODUCING THE HA-3000 HEAD AMPLIFIER**

The HA-3000 is Allnic Audio's pre-preamplifier, or "Head Amplifier". It is an active, tube based device for amplification of low voltage signals from moving coil cartridges to allow connection of moving coil cartridges to the moving magnet inputs of a phono-stage, such as the Allnic H-3000 or H-1500. The HA-3000 is an active pre-preamplifier, not a "step-up transformer" like Allnic's HA-3000, which uses only a transformer to boost the signal from the cartridge.

The HA-3000 has the following features.

- Innovative Fixed Bias Circuit

In the HA-3000, two nuvistor 7895 tubes, the smallest vacuum tube, perform as amplifying devices. They magnify the tiniest signal in audio, the output voltage of MC cartridges, to match to the MM input of phono stages. Allnic applies its innovative, fixed bias circuit to achieve quiet and stable operation of the extremely sensitive 7895 tubes. The fixed bias circuit eliminates the subsonics so harmful to phono stages and inherent in the characteristics of the R.I.A.A curve, which requires amplification of the lower frequencies. The fixed bias circuit applies a sustained negative DC voltage to the grid of the tubes and to the input coupling capacitors, blocking capacitor "crossover distortion". This distortion is a common phenomenon but, unfortunately, is often neglected in pre-preamplifiers. The result of no "zero crossover distortion" is, simply, clearer and more vivid reproduction of the music.

- Very High S/N Ratio

The above mentioned characteristics of the R.I.A.A curve demand a hum-free pre-preamplifier and, therefore, a silent power supply circuit. Even one micro volt (1/1,000,000 of one volt) of hum noise (120Hz hum) in the output signal of a pre-preamplifier will result 63mV to the loud speakers. That is unacceptable, and Allnic has overcome the issue through its automatic pure vacuum tube voltage regulation circuitry. This voltage regulation circuit minimizes power supply hum noise to inaudibility.

- Extremely Wide Frequency Range

Though the HA-3000 has a single gain stage and no negative feedback, its frequency range capability extends from 15Hz to 125Khz(-3dB), revealing the full richness of the musical information on vinyl.

- Ultra Flexibility

The capability to follow an unpredictable musical signal with ease is strongly believed to be the heart of musicality for audio equipment. This ability can be indicated by square wave response at high frequencies, especially at 10Kh and the even more rarely achieved 20Khz. Exceeding these expectations, Allnic's HA-3000 shows a response shape that is, even at 100Khz, in a word, beautiful.

- Micro-Phonic Free Tube Damping Know-how

Allnic's Absorb-Gel® tube damping know-how culminates in the HA-3000. In the HA-3000, an extreme version of this mechanical technology applied, reducing vibration induced noise in the sensitive tube amplification circuit to a level never before realized.

- Variable Input Load Impedances.

The HA-3000 has four input load impedances: 50, 100, 200, and 500 ohms, selectable from a control on the front panel. This allows loading according to the output impedances of your MC cartridges. Furthermore, these loads are purely resistive, not the compound one of a step-up transformer, resulting in a pure and clean sound.

- As are all Allnic Audio products, the HA-3000 is fully RoHS (EU Reduction of Hazardous Substances regulation) compliant in construction and materials.

The HA-3000 has been designed and manufactured to work most synergistically with other Allnic Audio products, for example the Allnic phono stages and preamplifiers.

**WHAT'S IN THE BOX?**

Please check that the shipping box contains the following:

- One (1) Allnic HA-3000 Head Amplifier – in natural aluminum or black finish in accordance with your order
- One (1) Allnic HA-3000 Head Amplifier Power Supply Unit – in natural aluminum or black finish in accordance with your order
- One DC umbilical cord
- One (1) power cord
- One (1) Owner's Manual

We advise that you keep the box and other packing materials that your HA-000 came in. It will be useful if you sell your HA-3000 or in the unlikely event you need to ship it for service.

**SAFETY**

- Disconnect all cables by pulling the plug, not the cable.
- Keep the cables away from any heat source.
- Keep the unit away from liquids – do not allow any liquid to enter the interior of the unit.
- Do not attempt any repairs.
- Do not remove the cover without specific authorization from Hammertone Audio.
- See the notes on "Location, Location, Location".

**CLEANING**

A. Chassis

Use only a soft, lint-free cloth dampened slightly with water only (NO cleaning fluids!) to clean the faceplate and chassis.

B. Connectors

You may use any good quality contact cleaner recommended for such applications to clean the contacts from time to time, as you deem appropriate.

**INITIAL SET-UP**

A. LOCATION, LOCATION, LOCATION

Like all sensitive audio products, the Allnic Audio HA-3000 and its power supply should be placed on a solid stand.

- DO NOT place the units on carpet or foam.
- DO NOT subject the units to knocks and shocks as you move them around. This advice is meant particularly for those who may want to place the HA-3000 on some kind of after-market isolation feet or similar devices. Dropping one side of the HA-3000/power supply, or the whole unit, is not a good thing to do.
- DO NOT place the units near a strong light or heat source.
- DO NOT place anything heavy on the units.
- DO NOT allow rubber or vinyl materials to rest on the units' chassis for long periods of time. This could discolour the metal.
- DO place the units on a shelf or stand that is stable and not subject to vibration or sudden shock.
- DO consider using high quality interconnects for both inputs and outputs. The HA-3000 is a highly sensitive piece of electronic equipment designed for neutrality and will output what you put into it.
- DO try to place the HA-3000 away from major sources of RFI and EMI; though very well shielded, the HA-3000 units will function best away from large power transformers and other sources of such interference.

B. INPUTS

In the centre of the four RCA connections on the rear of the HA-3000's chassis is a screw type connector. This connector is the ground connection for a ground wire from a cartridge and/or turntable. Please refer to Figure 4.

There is one (1) pair of single-ended (RCA) inputs (see Figure 1). The right and left channel input connections are the bottom pair of RCA connections, below and to the left and right of the ground connection. The left channel input connection is on the right of the unit, facing the HA-3000's rear panel (on the left if you are facing the front of the unit). The right channel input connection is on the left of the unit, facing the HA-3000's rear panel (on the right

if you are facing the front of the unit).

C. OUTPUTS

The HA-3000 is equipped with one pair of single-ended (RCA) outputs (see Figure 1). The right and left channel output connections are the top pair of RCA connections, above and to the left and right of the ground connection. The left channel output connection is on the right of the unit, facing the HA-3000's rear panel (on the left if you are facing the front of the unit). The right channel output connection is on the left of the unit, facing the HA-3000's rear panel (on the right if you are facing the front of the unit).

Power

Be sure the HA-3000 power supply power button switch is in the "off" position ("out"- not depressed) before connecting the IEC equipped power cord to the rear of the power supply. The HA-3000 power supply unit uses a standard IEC AC connection (see Figure 3). The DC umbilical cable to the pre-preamplifier unit is fixed to the rear of the power supply and connects to the rear of the pre-preamplifier unit. The umbilical cable must be inserted snugly into the connector on the rear of the pre-preamplifier unit and then secured, using the screw collar around the connector (see Figure 1).

**OPERATION**

Be sure you have turned the volume down or otherwise muted your preamplifier before connecting the HA-3000. Also, make sure all your connections are snug.

At this point, if you have not already done it, turn the front panel load selection control knob to the loading factor that you think will work for your moving coil cartridge.

The HA-3000 has four input load impedances: 50, 100, 200, and 500 ohms, selectable from a control on the front panel. Please see Figure 2. **You may need to experiment with different load settings to find the one best suited for your cartridge.**

Turn on the HA-3000 by pressing down the button on the front panel of the power supply unit to the "on" position. The running LED on the front of the pre-preamplifier unit will illuminate.

From this point on, operation is straight-forward. Of course, always be sure you have turned the volume down or otherwise muted your preamplifier before changing loads with the front panel control.

In the case of any failure, please contact Hammertone Audio.

**SPECIFICATIONS**
FOR THE ALLNIC AUDIO HA-3000 HEAD AMPLIFIER

| | |
|---|---|
| Inputs: | MC (Moving Coil – unbalanced (RCA) × 1 pair |
| Outputs: | Unbalanced (RCA) × 1 pair |
| Ground: | Screw Type x 1 |
| Frequency Response Range : | 15KHz to 30KHz, flat |
| Voltage gain : | 30 dB |
| S/N Ratio : | More than -100 dB (CCIR) |
| Tubes: | |
| Pre-preamplifier: | 2 x Nuvistor 7895 (equivalent 6CW4) |
| Power Supply: | 2 x 7233 (no equivalent); 2 x 6BH6 (equivalent CV 3908) |
| Maximum Input Voltage: | 530mV (20Hz ~ 20KHz) Non-Clipping |
| Input Load Impedances: | 50, 100, 200 and 500 Ohms selectable |
| Dimension and Weight (each unit): | 215mm(W) □ 290mm(D) 115(H) |
| Weight Pre-preamplifier unit: | 2.5Kg (5.5lbs) |
| Weight Power supply: | 5.8Kg (12.7 lbs) |
| AC Power Requirement : | 120/220 VAC - 50/60Hz (depending on factory setting) |

**FIGURES**

Figure 1 – HA-3000 Pre-preamplifier Unit Rear Panel View

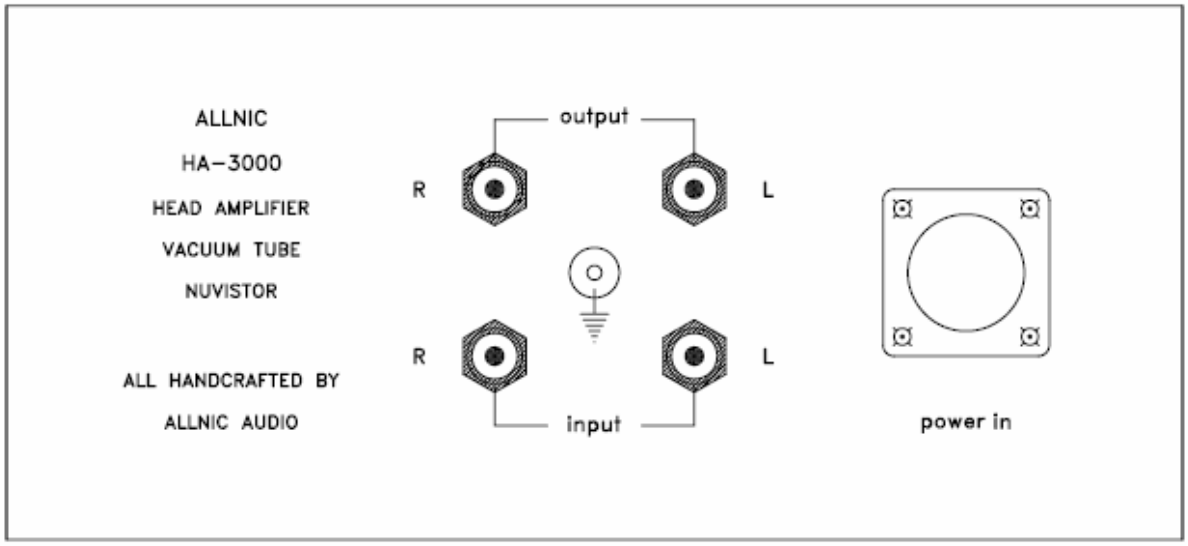



Figure 2 – HA-3000 Pre-preamplifier Unit Front Panel View

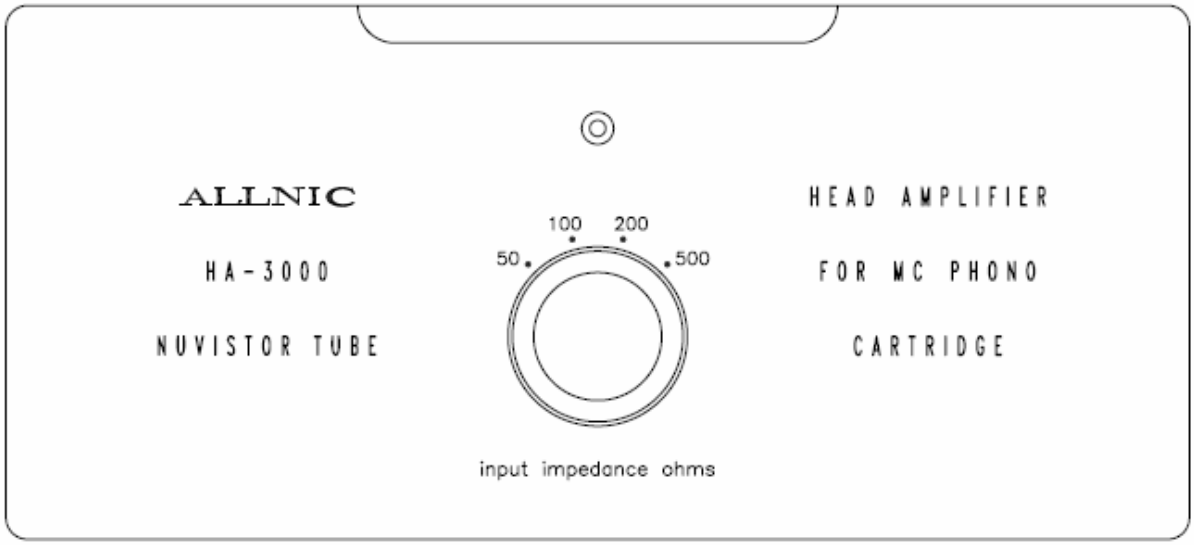


Figure 3 – HA-3000 Power Supply Rear Panel View

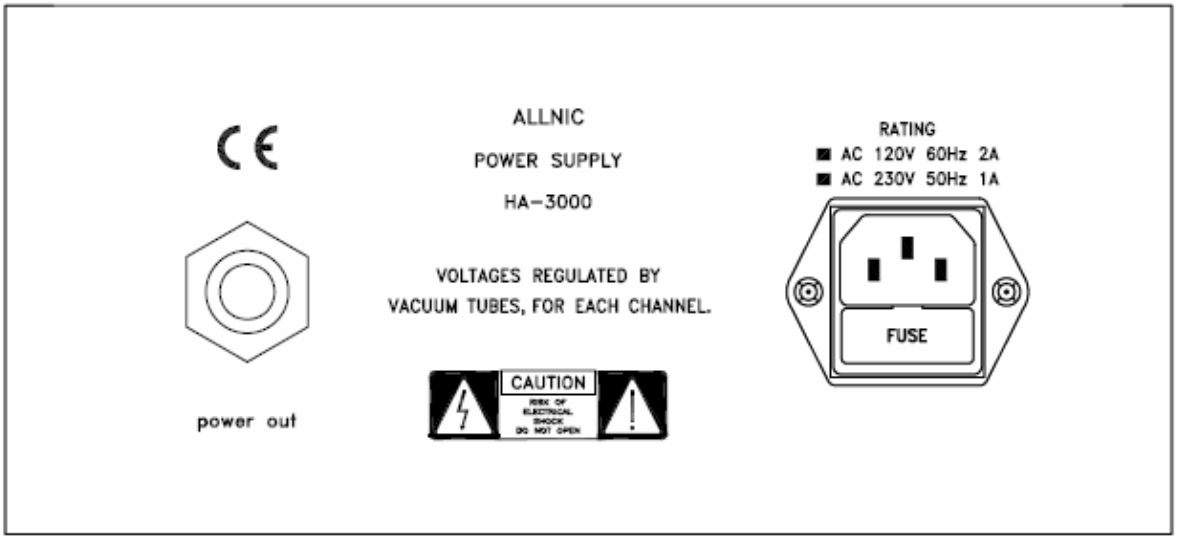
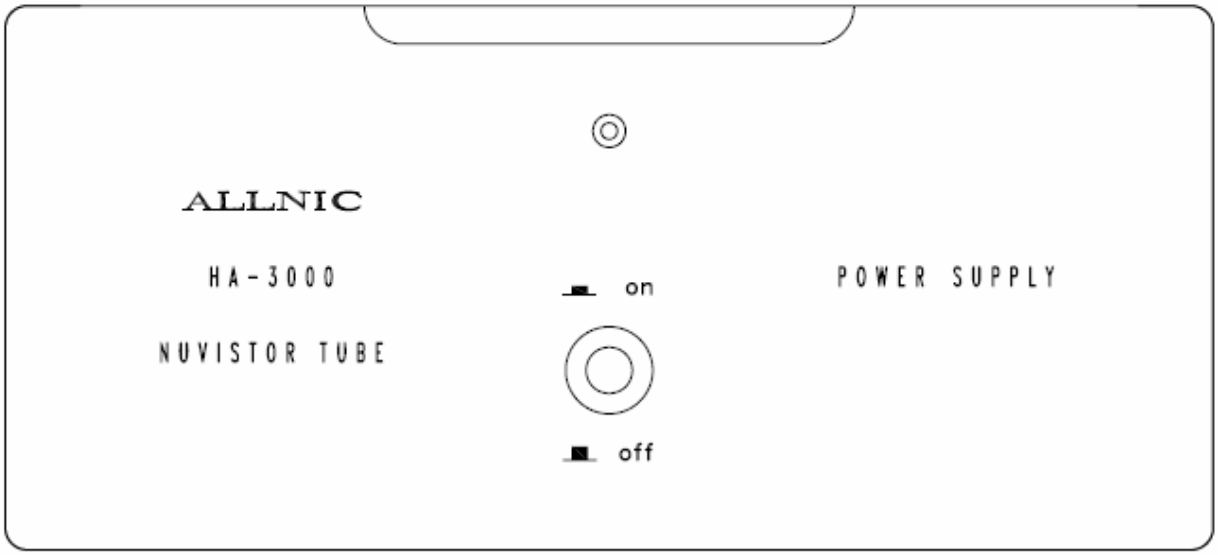



Figure 4 – HA-3000 Power Supply Front Panel View



**WARRANTY**

All Allnic Audio amplifier products are warranted against materials and manufacturing defects for parts, excluding tubes, and labour for two (2) years from date of purchase. Tubes are warranted against materials and manufacturing defects for one (1) year from date of purchase. The warranty is transferable for the balance of the original purchaser's warranty period, provided, as stated below, no unauthorized repairs or modifications have been performed on the product. Date of purchase is the date indicated on the invoice for the product issued by Hammertone Audio.

For the warranty to be valid, a defective product must be returned to Hammertone Audio for service prior to any unauthorized attempt to repair. Any repair work on an Allnic Audio product not specifically authorized by Hammertone Audio will void the warranty on the product.

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