



ALLNIC AUDIO

HA-5000 ACTIVE PHONO HEAD AMPLIFIER (PHONO PRE-PREAMPLIFIER)



OWNER'S MANUAL

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(PHONO PRE-PREAMPLIFIER)**

Thank you for purchasing the Allnic Audio HA-5000 Phono Head Amplifier. We are certain your trust in Allnic Audio and its dealers worldwide, 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-5000 Phono Head Amplifier to the other components of your system and the wall outlet.

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

***** *For a list of Allnic Audio distributors around the world, please visit Allnic Audio's website:***

<http://allnicaudio.com>

TABLE OF CONTENTS:

INTRODUCING THE HA-5000 PHONO HEAD AMPLIFIER	4
WHAT'S IN THE BOX?	5
SAFETY	6
CLEANING	6
Chassis	
Connectors	
INITIAL SET-UP	
Location, Location, Location	6
Power Connection	7
Inputs	7
Outputs	7
INITIAL POWER ON	7
OPERATION	8
TUBES	8
SPECIFICATIONS	9
WARRANTY	10
FIGURES	10

Please read about **SAFETY** before you attempt to use the HA-5000 Phono 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-5000 PHONO HEAD AMPLIFIER

The HA-5000 is Allnic Audio's phono 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-1202, H-1500 Plus, H-7000/V and H-8000 DHT. The HA-5000 is an active phono pre-preamplifier, not a "step-up transformer" like Allnic's AUT-2000, which uses a transformer to boost the signal from the cartridge.

The HA-5000 has the following features.

- Innovative Fixed Bias Circuit

In the HA-5000, 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 sub-sonics 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 phono 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-5000 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 10Khz and the even more rarely achieved 20Khz. Exceeding these expectations, Allnic's HA-5000 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 reaches its zenith in the HA-5000. In the HA-5000, 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-5000 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 compound as with a step-up transformer, resulting in a pure and clean sound.

- As are all Allnic Audio products, the HA-5000 is fully RoHS (EU Reduction of Hazardous Substances regulation) compliant in construction and materials.

The HA-5000 has been designed and manufactured to work most synergistically with Allnic Audio phono preamplifiers and ZL (Zero Loss) Technology cables.

WHAT'S IN THE BOX?

Please check that the shipping box contains the following:

- One (1) Allnic HA-5000 Head Amplifier – in natural aluminum or black finish in accordance with your order
- One (1) Allnic HA-5000 Head Amplifier Power Supply Unit – in natural aluminum or black finish in accordance with your order (umbilical cord attached)
- One (1) power cord
- One (1) Owner's Manual

Note:

- 1) The HA-5000 ships with the tubes installed.
- 2) The HA-5000 will work with most IEC type aftermarket power cords. The Allnic ZL-3000 and ZL-5000 power cables will make an excellent match. Of course, only you can determine the power cord that works most synergistically with the HA-5000 in your system.
- 3) **Be sure the HA-5000 is labeled for the AC voltage of your location. If it is not, DO NOT connect it to your AC outlet. Please contact your Allnic dealer.**

We advise that you keep the box and other packing materials that your HA-5000 came in. It will be useful if you sell your HA-5000 or in the unlikely event you need to ship it for service.

SAFETY

- Disconnect the power cord by pulling the plug, not the cable.
- Keep the power cord away from any heat source.
- Keep the units away from liquids – do not allow any liquid to enter the interior of the units.
- When the units are moved from a cold to a warm environment, allow sufficient time for any condensation to evaporate before plugging the units into an AC connection.
- Do not attempt any repairs.
- Do not remove the chassis covers without specific authorization from your Allnic dealer.
- See the notes on “Location, Location, Location”.

CLEANING

A. Chassis and glass

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 audio products using tubes, the Allnic Audio HA-5000 and its power supply need to be placed on a solid stand in a location that provides for good air circulation around the two head amplifier units.

- DO NOT cover the tops of the HA-5000 units.
- 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-5000 units on after-market isolation feet or similar devices.
- 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 a high quality power cord and inter-connects, for both inputs and outputs. The HA-5000 is a highly sensitive piece of electronic equipment designed for neutrality and will output what you put into it. Allnic's ZL (Zero Loss) Technology cables will work synergistically with the HA-5000.
- DO try to place the HA-5000 away from major sources of RFI and EMI; though well shielded, the HA-5000 will function best away from large power transformers and other sources of such interference.

B. POWER CONNECTION

Be sure the HA-5000 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 and the umbilical cable to the head amplifier unit. The HA-5000 power supply uses a standard three prong male 15 amp IEC connection for AC input. You need to use a power cord with a female three slot 15 amp IEC connector at one end (see Figure 1).

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 head amplifier unit. The umbilical cable must be inserted snugly into the connector on the rear of the head amplifier unit and then secured, using the screw collar around the connector (see Figure 3).

The HA-5000 you have purchased is set internally for AC 110/120 volt – 60 HZ, or 220/230 volt – 50 Hz operation. There is no way to change this to another AC setting without return of the units to the factory for re-wiring, at the owner’s cost, including transport both directions.

C. INPUTS

In the centre of the four RCA input connections on the rear of the HA-5000’s chassis is a screw type connector. This connector is the ground connection for ground wires from cartridges and/or turntables. (see Figure 3).

There are two (2) pairs of single-ended (RCA) inputs (see Figure 1). The right and left channel input connections for the two pairs are the bottom four RCA connections, surrounding the ground connection. The left channel input connections are on the right of the unit, facing the HA-5000’s rear panel (on the left if you are facing the front of the unit). The right channel input connections are on the left of the unit, facing the HA-5000’s rear panel (on the right if you are facing the front of the unit).

D. OUTPUTS

The HA-5000 is equipped with one pair of single-ended (RCA) outputs on the rear of the head amplifier unit (see Figure 3). The right and left channel output connections are the top pair of RCA connections. The left channel output connection is on the right of the unit, facing the HA-5000’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-5000’s rear panel (on the right if you are facing the front of the unit).

INITIAL POWER-ON

Once you have your HA-5000 in place and all connections have been made to your preamplifier or integrated amplifier’s moving magnet inputs, the umbilical cord is securely connected to the head amplifier unit, and the power cord is installed and plugged into an AC receptacle, you are ready to turn on the power for your HA-5000. Before you power up the HA-5000, though, be sure you have:

- selected the input connections that you want to use, MC1 or MC2, using the button on the front of the head amplifier unit

- turned the volume down on or muted the preamplifier or integrated amplifier to which you have connected your HA-5000
- checked that all your connections are snug

Turn on the HA-5000 by pressing the button on the front panel of the power supply unit down to the “on” position.

The running LEDs on the fronts of both the power supply and the pre-preamplifier unit will illuminate.

The Allnic Audio HA-5000 is now ready for operation.

OPERATION

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 best for your moving coil cartridge.

The HA-5000 has four input load impedances: 50, 100, 200, and 500 ohms, selectable from a control on the front panel (see Figure 4). **You may need to experiment with different load settings to find the one best suited for your cartridge.**

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

In the case of any failure, please contact your Allnic Audio dealer.

TUBES

The HA-5000 uses the following tubes (see Figure 5):

- 2 x Nuvistor 7895 (equivalent 6CW4)
- 2 x 7233 (no equivalent)
- 2 x 6BH6 (equivalent CV3908)

All consequences of changing or attempting to change tubes are borne by the user unless by express agreement between the owner and Allnic Audio or its authorized representative. Allnic Audio and its authorized representatives are not liable in any way whatsoever for any injury or loss incurred by the user or for damage to the HA-5000, any of its parts, or tubes or replacement tubes resulting from the user changing or attempting to change tubes.

SPECIFICATIONS

FOR THE ALLNIC AUDIO HA-5000 PHONO HEAD AMPLIFIER

- Inputs: MC (Moving Coil – single-ended RCA) × 2 pair
- Outputs: Single-ended RCA × 1 pair
- Ground: Screw Type x 1
- Frequency Response Range : 15KHz to 30KHz, flat
- Voltage Gain: +30dB
- THD (1kHz): Output 0.3V, 0.06%
Output 1.0V, 0.16%
- S/N Ratio: More than -100 dB (CCIR)
- Maximum Input Voltage: 530mV (20Hz ~ 20KHz) Non-Clipping
- Input Load Impedances: 50, 100, 200 and 500 Ohms selectable
- Tubes:
Pre-preamplifier Unit: 2 x Nuvistor 7895 (equivalent 6CW4)
Power Supply: 2 x 7233 (no equivalent); 2 x 6BH6 (equivalent CV3908)
- Fuse: 2A 250V slow blow
- Dimensions (Both units same): 215mm/8.5 in (W) x 290mm/11.5 in (D) x 115mm/4.53 in (H)
- Weight:
Head amplifier unit: 2.5 kg (5.5 lbs) unpacked.
Power Supply: 5.8 kg. (12.7 lbs) unpacked

WARRANTY

FOR WARRANTY SERVICE, PLEASE CONTACT YOUR AUTHORIZED ALLNIC DEALER.

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

FIGURES

Figure 1 – HA-5000 Power Supply Rear View

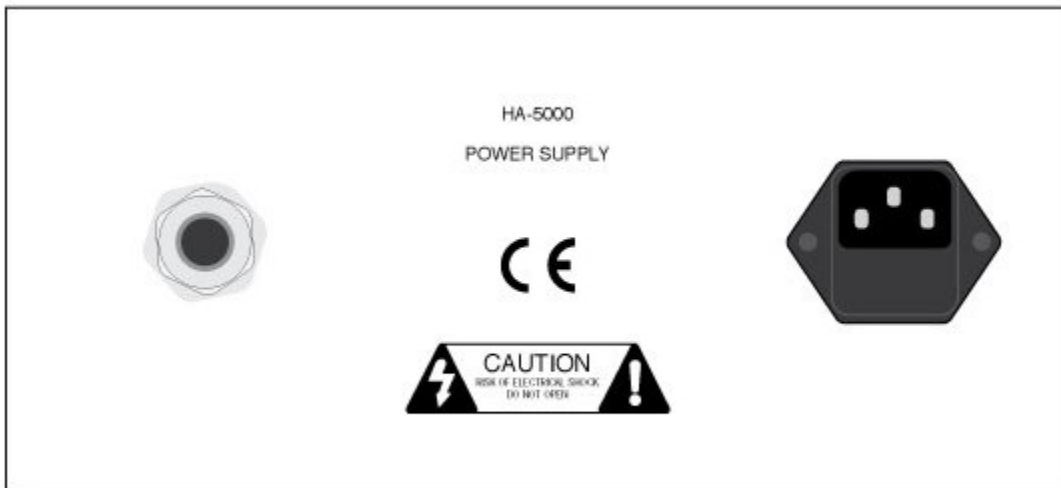


Figure 2 – HA-5000 Power Supply Front View

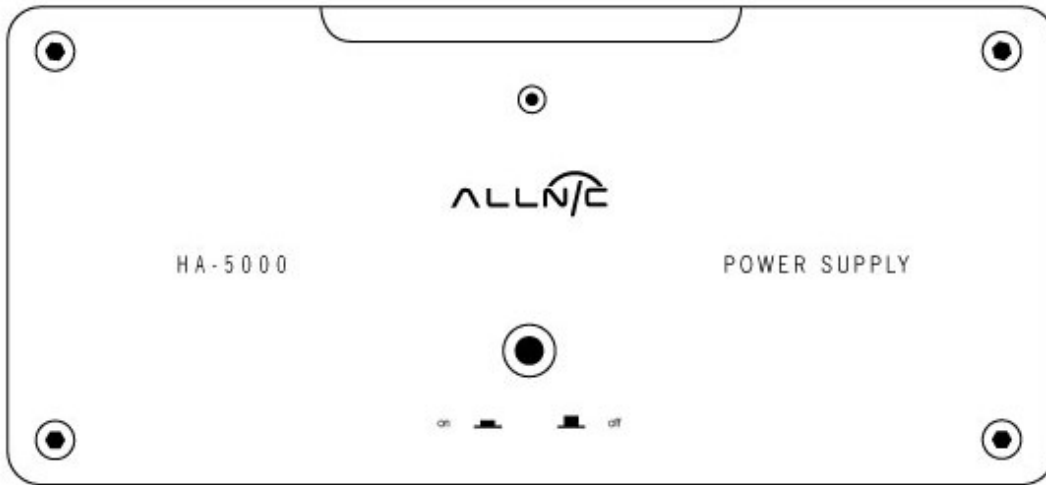


Figure 3 – HA-5000 Amplifier Unit Rear View

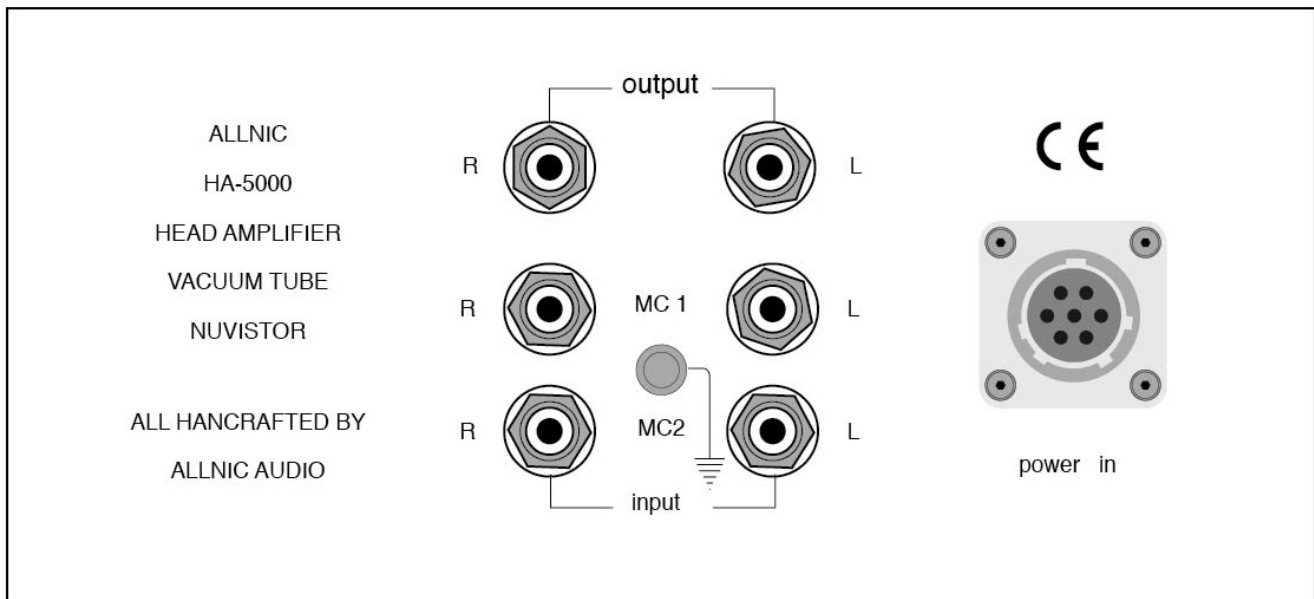


Figure 4 – HA-5000 Amplifier Unit Front View

