ALLNIC AUDIO

L-8000 DHT LINE-STAGE PREAMPLIFIER

OWNER'S MANUAL

ALLNIC AUDIO
L-8000 DHT LINE-STAGE PREAMPLIFIER

Thank you for purchasing the Allnic Audio L-8000 DHT Line-Stage Preamplifier. 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 L-8000 DHT Line-Stage Preamplifier to the other components of your system and the wall outlet. Failure to follow the guidance in this manual may result in voiding the warranty.

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

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Please read about **SAFETY** before you attempt to use the L-8000 DHT Line-stage Preamplifier - we care about our customers and the equipment, and we want you to enjoy this product for a long time!

INTRODUCING THE L-8000 DHT PREAMPLIFIER

Thank you for purchasing the L-8000 DHT Line-stage Preamplifier. The L-8000DHT is a highly sophisticated and "purist" piece of audio technology. It is intended for experienced vacuum tube audio enthusiasts who understand and have the patience to appreciate the virtues of an innovative but "no bells and whistles" approach to circuit design and the superior sonic and "vintage" characteristics of New Old Stock (NOS) tubes. The L-8000 DHT is not a "plug, play and forget", mass-market device aimed at audio enthusiasts generally. Like all Allnic's products, it is first and foremost a state-of-the-art example of "Tube Amp Done Right". Proper care and attention, partnering with other equally high-quality equipment, and following the guidance provided in this manual will facilitate easy use and a listening experience of essentially unequalled quality for many, many years.

Allnic Audio and the Direct Heated Triode Breakthrough

In the early years of the last century, the directly heated triode was invented independently, and almost simultaneously, in the USA and Austria. This simple device, an anode, cathode and a grid in a vacuum contained in a glass bottle, transformed the world. With all the applications in which it has been employed, and with all the changes in electronic design for audio reproduction that have occurred since its invention, it is remarkable that over one hundred years later, the very first triode, the simplest vacuum tube audio signal amplifier, despite the imperfections ascribed to it, remains a favourite audio amplification device of many devoted music lovers worldwide.

Debate, on both subjective and empirical bases, about the quality of the directly heated triode's sound reproduction potential continues even today. One of the interesting aspects of these debates is the degree to which they ignore analysis of common, fundamental assumptions based on decades of circuit and mechanical design experimentation and compromise, about the use of these devices. Indeed, because of the difficulties in application of directly heated triodes in audio circuits, many issues arising out of circuit design problems related to them have evolved into assumptions about the audio characteristics of the valves themselves.

Allnic's Mr. Kang Su Park has spent a lifetime studying and designing circuits and transformers for application of direct heated triodes for audio reproduction. By questioning basic assumptions about the valves and re-examining the original and many historical variations of circuit designs for them and experimenting constantly in a framework of rigorous application of theory, Mr. Park's work has resulted in some remarkable audio power amplification devices. With the 300B, for example, his creations produce significantly more power than is expected (without shortening valve life because the power increase is not achieved by increased bias), in conjunction with exceptionally low distortion and wide bandwidth.

Now, Mr. Park has successfully combined elements of what he has learned and invented over decades to the development and production of a pure, direct heated triode (DHT) based preamplifier. The main breakthrough, which came after several years of work applying all he knows, was the design of a circuit, valve and transformer combination the measured results of which astounded him. The purity of its square wave reproduction – as perfect as anything he had ever seen from a DHT valve amplification circuit – had him questioning what he was seeing! Of course, he tested and re-tested, replicated and recorded these results many times before assuring himself that there was no mistake.

With such an unprecedented outcome for the circuit design, Mr. Park could not be satisfied merely with placing a DHT stage after one or two prior stages of amplification using indirectly heated triodes. This approach is used in a number of commercially available preamplifiers using DHTs, but it is a compromise. It does not result in PURE DHT amplification; it necessarily introduces the characteristics of indirectly heated triode sound into the circuit, so the output DHTs are only amplifying a signal already affected by the indirectly heated triodes in the prior stage or stages.

Mr. Park, though, created a preamplifier that uses DHTs at each amplification stage. In his design, the output stage DHTs are not merely amplifying the signal from previous, indirectly heated triode stages. The L-5000 DHT preamplifier, predecessor to the L-8000 DHT, was pure DHT - from input to output.

Of course, Mr. Park is not the only builder who has accomplished this, but to our knowledge no other pure DHT preamplifiers have been commercially available. There are serious and significant reasons why such preamplifiers could not be acceptable in the marketplace. First among them has been the enormous problem of microphonics. One of the many special elements of Mr. Park's design is reduction of microphonic influence on the DHT's. Where others have sometimes accepted the effects of this problem because even with it they prefer the incredible realism of the pure DHT approach, Mr.Park has succeeded in creating a circuit and mechanical design that reduces the DHTs' susceptibility to microphonic influence to insignificance. Like the Allnic L-7000, which is an indirectly heated triode preamplifier, the L-8000 has a noise floor that is effectively absent.

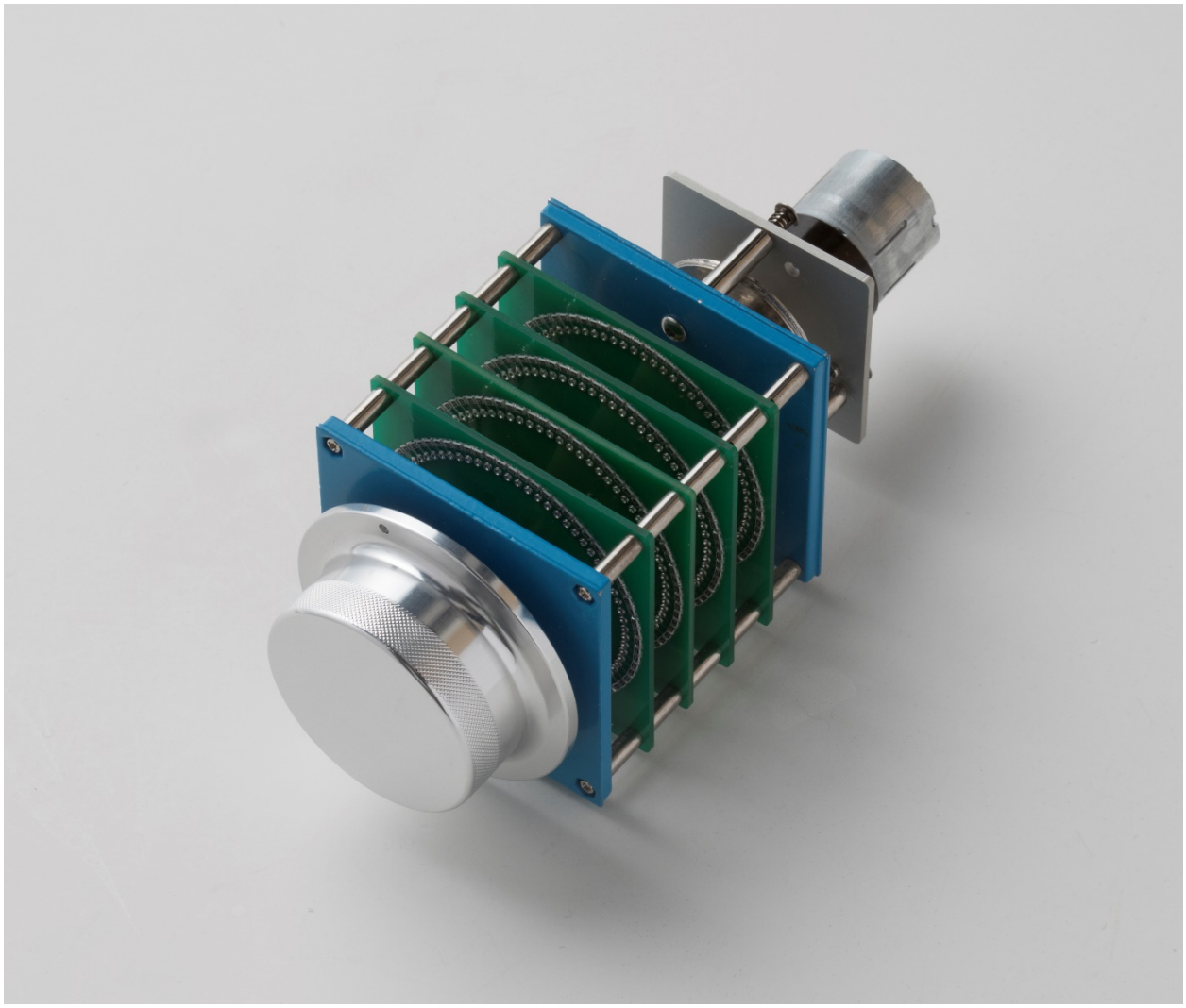
The Allnic L-8000 DHT preamplifier is the improved successor to the L-5000 DHT, which was THE WORLD'S FIRST COMMERCIALLY PRODUCED, PURE DHT PREAMPLIFIER.

Currently, the L-8000 DHT's original NOS large output tubes are very rare items, produced many decades ago. Allnic was able to secure a limited number of these valves, enough to produce an also limited number of the L-8000 DHT preamplifier with them. This allows for valve stock to be retained for replacements, should that ever become necessary, something that is unlikely for a very, very long time – unless one drops the tube! This is because the qualities of the valves combined with the circuit in which they function will extend their life to the utmost limits, very, very much beyond 10,000 hours.

The L-8000 DHT is one of Allnic Audio's two flagship line-stage preamplifiers (the other is the L-10000 OTL/OCL *Signature*). Like all Allnic Audio products, it uses Permalloy (Iron and nickel alloy) for its transformer cores. Allnic is grateful to Mr. G.W. Elmen of Western Electric for inventing Permalloy for transformer core use, and in so doing, providing an enormous service to recorded music listeners everywhere.

Another world's "first of its kind" for Allnic Audio
61 STEP CONSTANT IMPEDANCE BRIDGED TYPE ATTENUATOR

Allnic Audio's newly developed 61 step constant impedance bridged type attenuator, a world's first, is installed inside the L-8000 DHT, which contributes to the L-8000 DHT's outstanding dimensional sound. It does so by ensuring that the attenuator's impedance is absolutely constant across all frequencies. This is in addition to the zero channel imbalance, a standard feature of Allnic's in-house produced, motorized attenuators.



The Allnic *61 step constant impedance bridged type attenuator*

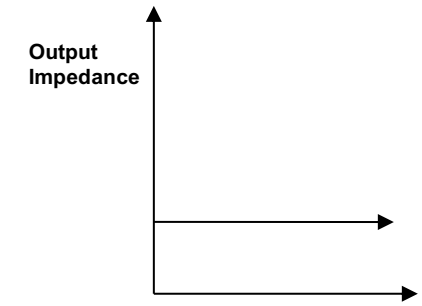
The L-8000 DHT has the following features:

- Line output transformer coupling – The L-8000 DHT is “transformer coupled”, using transformers that have been upgraded from those in the L-5000 DHT. In tube amp circuitry, there are two coupling methods; one is capacitor coupling and the other is transformer coupling. Capacitor coupling is the traditional, low cost method. It is somewhat stable but transfers only voltage, not wattage (i.e., not real energy). With transformer coupling, about 90% of real wattage is transferred (there is still a transformer loss of about 10% of wattage – voltage is not affected).

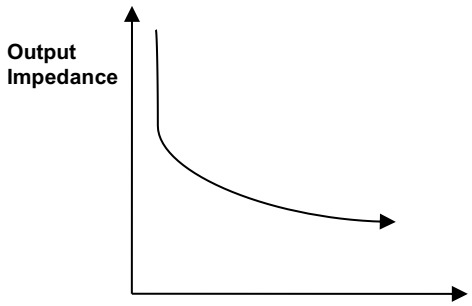
  Transformer coupling is superior to capacitor coupling. However, all the advantages of transformer coupling depend on the quality of the transformer and on the choice of tubes. Allnic Audio manufactures its own transformers and uses what it views to be the best core material, Permalloy. Allnic Audio's unprecedented, wide (16Hz ~ 75kHz, -3db), low distortional, and ultra-flexible (up to 50kHz square wave response) output transformer helps Allnic Audio to realize the ideal transformer coupled preamplifier. Of course, gain tubes are

also carefully selected for three critical factors for function with the Permalloy output transformers: high gm, low internal resistance and high mu.

Constant and low output impedance – One of the benefits of transformer coupling is that it facilitates constant low output impedance. Low output impedance is critical to the design of a good preamplifier. The L-8000 DHT has a 120 ohm (120Ω) constant output impedance at all frequencies. In capacitor coupling (C-R coupling), a “cathode follower circuit" is usually used to lower output impedance. Unfortunately, this method of lowering output impedance is accompanied by high distortion and has an "L" shaped output impedance curve. Please compare the two graphs below, especially for low frequency response.



(Allnic LCR Output Impedance Curve)



(Traditional CR Type Output Impedance Curve)

- No negative feedback design

- Advanced tube technology voltage regulation - For quieter and more dynamic operation, the L-8000 DHT has an ultra-high speed automatic voltage regulation circuit, utilizing vacuum tubes. This also protects the amplifying tubes from change in the AC line supply and copes with any abrupt, internal current demand.

- New vacuum tube damping technology – Allnic Audio’s patented "Absorb GEL tube damper" technology prevents harmful vibrations from reaching the signal / gain tubes and, therefore, prevents microphonic noise propagation in the tubes. The Allnic Audio Absorb Gel damper technology effectively solves a problem that plagues most tube, and especially DHT, amplification systems. Provided other tube components do not introduce microphonic noise into your system, with the Absorb Gel damping system, you will enjoy a degree of transparent sound that will surprise and please you.

- Precision attenuator volume control – The L-8000 does not employ a digital IC volume control or a low-cost carbon film volume control with a motor. The L-8000 uses the WORLD’S FIRST 61 step, constant impedance, “bridged” type attenuator. Allnic’s new attenuator is now the most sophisticated on the market, and we believe, without a doubt, also the absolute best sounding. With fixed impedance and no (± 0db) channel imbalance at any volume level, this revolutionary and currently unique, oil clutched, motorized attenuator will astound users with its elevation of the fidelity and purity of any system in which it finds a home.

- Pure Class A operation

- Pure balanced output stage

- As are all Allnic Audio products, the L-8000 DHT is fully RoHS (EU Reduction of Hazardous Substances regulation) compliant in construction and materials

WHAT'S IN THE BOX?

Please check that the shipping box contains the following:

- One (1) Allnic L-8000 DHT Preamplifier – in natural aluminum or black, depending on your order specification
- One (1) power cord
- One (1) remote control
- Two (2) x AAA batteries for the remote control
- One (1) Owner's Manual
- One (1) Hex/Allen key

Note:

1) The L-8000 DHT ships with the tubes installed.
2) The L-8000 DHT will work with most IEC type aftermarket power cords. The Allnic ZL-3000, ZL-5000 and ZL-8000 power cables will make an excellent match. Of course, only you can determine the power cord that works most synergistically with the L-8000 DHT in your system.
3) **Be sure the L-8000 DHT 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 L-8000 DHT came in. It will be useful if you sell your L-8000 DHT or in the unlikely event you need to ship it for service.

SAFETY

- **CAREFULLY and SLOWLY remove ALL cardboard and Styrofoam cushioning material inside the tube chimneys before operation. DO NOT remove the anti-vibration rings and/or sleeves that are on the tubes.**
- **DO NOT leave the L-8000 DHT turned on for extended periods of time – NEVER 24/7, even for (an unnecessary) "break-in" period. This will greatly increase the likelihood of premature tube and/or internal failures. Power on the unit and let it warm up for some minutes; then, when finished a listening session, do a complete power off.**
- Disconnect the power cord by pulling the plug, not the cable.
- Keep the power cord away from any heat source.
- Keep the unit away from liquids – do not allow any liquid to enter the interior of the unit.
- When the unit is moved from a cold to a warm environment, allow sufficient time for any condensation to evaporate before plugging the unit into an AC connection.
- Do not attempt any repairs.
- Do not remove the chassis cover 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, meter glass 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 L-8000 DHT needs to be placed on a solid stand in a location that provides for good air circulation around the preamplifier.

- DO NOT cover the top of the preamplifier.
- DO NOT place the unit on carpet or foam.
- DO NOT subject the unit to knocks and shocks as you move it around. This advice is meant particularly for those who may want to place the L-8000 DHT on a set of after-market isolation feet or similar devices. Dropping the L-8000 DHT may damage the unit and void the warranty.
- DO NOT place the unit near a strong light or heat source.
- DO NOT place anything heavy on the unit.
- DO NOT allow rubber or vinyl materials to rest on the unit's chassis for long periods of time. This could discolour the metal.

- DO place the unit on a well-ventilated 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, both inputs and outputs. The L-8000 DHT is a highly sensitive piece of electronic equipment designed for neutrality and will output what you put into it. Allnic's Zero Loss Technology cables will work synergistically with the L-8000 DHT.
- DO try to place the L-8000 DHT away from major sources of RFI and EMI; though well shielded, the L-8000 DHT will function best away from large power transformers and other sources of such interference.

B. POWER CONNECTION

The L-8000 DHT uses a standard 15 amp three prong male IEC connection for AC input. You need to use a power cord with a 15 amp female three prong IEC connector at one end.

To the left of the IEC connector (facing the left side of the unit as in Figure 1), there is a power on-off switch. Leave this switch in the OFF position – that means the switch is pressed "down" at the bottom - while you make all initial connections.

The L-8000 will be set internally for your location's electrical system characteristics. Please check the setting for electrical input on the label on the rear of the unit to confirm that your L-8000

matches your location's electrical system. The L-8000 is set internally for AC 110/120 volt – 50/60 Hz or 230/240V – 50/60 Hz operation. There is no way to change to another AC setting.

C. INPUTS

There are five (5) inputs. Line 1 and Line 2 are balanced connections (XLR type connectors). The remaining 3 line inputs are RCA type single-ended connections. None of the inputs is intended especially for connection to any particular device.

NO PHONO STAGE - The L-8000 DHT is a line stage preamplifier and does NOT have a built in phono preamplifier section. You will need a phono preamplifier if you want to use a turntable with the L-8000 DHT. You can connect your phono preamplifier to any of the five inputs, provided you have the appropriate types of connections or adaptors.

The L-8000 DHT has been designed and manufactured to work most synergistically with Allnic Audio phono preamplifiers, pre-preamplifiers, equalization and power amplification products, and ZL Technology cables.

D. OUTPUTS

The L-8000 DHT has three pairs of outputs. Two (2) output pairs are balanced (i.e., separate ground), using XLR connectors; one (1) pair is unbalanced, using RCA type connectors.

On the back panel of the L-8000 DHT there is a switch to select either the balanced or single-ended connections. This selection switch is at the top centre of the rear panel and labeled "unbalanced output" (see Figure 2). Please set the output selection switch to the output connection you are using. If you set the switch to "balanced" (i.e., XLR – switch pushed to the right, looking from the rear) and then connect your cables to the RCA outputs ("main out 2"), audible hum will be introduced.

You may use the balanced and single-ended RCA outputs at the same time; for example, if you run one pair to your stereo amplifier and the other to a powered subwoofer (or a pair of them). In such a case, set the output selection switch to unbalanced (RCA – switch pushed to the left). This will avoid the introduction of hum.

E. REMOTE CONTROL

The remote control provides the ability to remotely:

- Select the line source input using either the numbered selector buttons (1 to 5) or the channel up/down arrow buttons (Please see Figure 3).
- Control the volume level using the right (louder) and left (quieter) arrow buttons adjacent to the channel arrow buttons.
- Mute the volume using the button labeled "MUTE". To raise the volume again after muting, press the Mute button to take the volume level to where it was prior to muting. In Mute mode, the light above the "operate" button on the front panel of the L-8000 DHT will not be illuminated; it will illuminate when the L-8000 DHT is unmuted again.
- Use the red power on/off button in the top left-hand corner of the remote control to power the L-8000 DHT on and off.

INITIAL POWER-ON

Once you have your L-8000 DHT in place and all connections have been made to your sources and amplifier(s) and the power cord is installed and plugged into an AC receptacle, you are ready to turn on the power for your L-8000 DHT. Before you power up the L-8000 DHT, though, be sure you have:

- **CAREFULLY AND SLOWLY removed ALL the cardboard/Styrofoam cushion materials from inside the tube chimneys. DO NOT remove the anti-vibration rings and sleeves that are on the tubes.**
- **ensured the batteries are in the remote control – if not, insert the batteries (by removing plate on the bottom of the remote control).**
- selected the output connections that you want to use, single ended (RCA) or balanced (XLR), on the switch at top centre on the back of the preamplifier
- turned the volume down on or muted the L-8000 DHT
- checked that **all** your system connections are properly mapped and secure

Also, be sure you have manually turned the volume control on the front panel to the extreme counterclockwise position (minimum volume).

Push the power on-off switch to the left of the IEC connector (facing the left side of the unit as in Figure 1) so it is in the "on position". That will power up the L-8000 DHT. From this point on, you need only use the far left hand button marked "power" on the front panel or the power button on the remote control to turn the L-8000 DHT on and off. Once the power has been turned on, the following will happen on the front panel (Please see Figure 5):

- the light above the "power" button will illuminate
- the meters on the front panel will illuminate
- the light over the line source button that is depressed will illuminate
- after a short delay, the light over the "operate" button will illuminate. The L-8000 DHT has a "soft start" delay for the tubes to extend tube life.

The Allnic Audio L-8000 DHT is now ready for operation. At this point, you can power on your sources and, finally, your stereo power amplifier or mono-blocks.

OPERATION

From this point on, operation is straight-forward. All functions are controlled from the front panel or the remote control. Of course, BE CAREFUL about differences in gain between your sources. Generally, disc players and tuners will have greater gain than phono stages. That means the volume setting for listening to your turntable might be too high for listening to CDs or streaming devices.

To avoid surges to the speakers, it is best to change from input to input only with the "operate" button set to mute (the light above the button will not be illuminated when the button is in the "mute" position).

When you are finished listening, turn off your stereo power amplifier or mono-block amplifiers. Then turn off the L-8000 DHT by depressing the power button on the front panel. The power switch on the left side panel should stay in the "on" position – this will keep key circuitry warm,

and your L-8000 DHT will be ready to play when the soft-start turns on the L-8000 DHT next time you want to listen. Turn off your sources last.

While microphonics are greatly reduced, they may not be absent and make a sound in the speakers when the motorized volume control is moved.

THE CURRENT METERS

These illuminated meters indicate the current supply to the gain tubes in the L-8000 DHT. They are indicators of failure or damage to the function of the unit. There is one meter for each channel. The needle should be between the two parallel lines just left of centre on the meter face. Any failure of the tubes or circuits in one or the other of the L-8000 DHT's channels is indicated by the needle on the meter for the respective channel moving out from between those two parallel lines.

- If the needle has moved to the left of the parallel lines on a meter, it means that one or both the gain tubes (3A/109B x4 or 3A/110A x2 and 3A/109B x2, depending on configuration) for that channel is failing. Output for that channel will also likely be lost.

- If the needle on either meter moves to the right of the parallel lines, it means that one or the other of the rectifier or voltage regulator tubes (7233 or 5654) for that channel is failing. Again, output for that channel could also be lost or there could be noise.

In the case of any tube failure indicated by a meter or loss of output, after first checking all your cables and other components, you can try to identify the failed tube(s). If you have access to a properly functioning tube tester that can test the L-8000 DHT's tubes, you can use it to determine which tube(s) failed, **always POWERING OFF and disconnecting the L-8000 DHT from the AC source** before removing a tube. If you do not have access to an appropriate tube tester, you can identify the failed tube(s) for replacement by following the procedures below.

For assistance, please contact your Allnic Audio dealer.

- First, **POWER OFF and disconnect the L-8000 DHT from the AC source** and, depending on the direction of the meter needle drop, first swap either the 7233 tubes or the 5654 tubes between the two channels. When the failure follows the tube, replace the failed tube with a good one.

- If that does not fix the issue, swap the pairs of the large output tubes from channel to channel one pair (front or rear) at a time. Again, when the failure follows the tube, replace the failed large output tube(s) with a good one. Remember to **POWER OFF and disconnect the L-8000 DHT from the AC source** each time you are going to change a tube. **Remember before replacing a failed output tube to transfer the rubber pin pad from the bottom of the tube being replaced to the new one**.

- If the L-8000 DHT will not power up, **first POWER OFF and disconnect the L-8000 DHT from the AC source; then, check the fuse.** If the fuse has blown, replace it with a good, inexpensive one of the same rating (to avoid risk if you are using a more costly aftermarket fuse). If that restores the L-8000 DHT's normal function, you have resolved the issue. If the fuse is good but the L-8000 DHT still will not power up, please contact your Allnic or its authorized representative for assistance for assistance.

If you need to replace the fuse, first try a good, inexpensive one of the same rating (to avoid risk if you are using a more costly aftermarket fuse). **POWER OFF** and disconnect the L-8000 DHT from the AC source to change the fuse.

The L-8000 DHT has been designed so that if a tube (or tubes) fails it is not necessary to replace all the tubes of that type with a matched set of the same type. It is necessary to replace only each failed tube with a good tube of the same type.

TUBES

The L-8000 DHT uses the following tubes (see Figure 5):

- Two (2) x 5654
- Two (2) x 7233 (2025 forward production will replace the 7233 tubes with 6C19P) **NOT equivalent to 7233; 7233 and 6C19P ARE NOT INTERCHANGEABLE.**
- Four (4) x 3A/109B (or Two (2) x 3A/109A and Two (2) x 3A 109B) (A and B pin arrangements differ). Two (2) x 3A/110A or B (depending on pin arrangement) may be used instead of 3A/109 as front (first gain stage) pair for more gain.

As experienced users of vacuum tube equipment know, any tube can be carefully machine tested and selected and re-tested under real use conditions at the factory but still fail early. Because of their age, vintage tubes can be especially fragile and more prone to fail prematurely in use despite intensive testing. Included tubes are guaranteed for the time and per the conditions in the Warranty section below. It may take shipping time, however, to transport replacements to you. As many experienced users do, you may want to acquire at your own cost and risk a set of back-up replacement tubes to have on hand for immediate use “just in case”.

Allnic Audio and its authorized representatives make no representations nor any warranty regarding the quality of tubes obtained from third parties and are not responsible for any issues or losses relating thereto. All consequences of changing or attempting to change tubes are borne by the user unless by express agreement between the owner and the owner’s Allnic dealer. Allnic Audio and its authorized representatives are not liable in any way whatsoever for any damage to the L-8000 DHT or any injury or loss incurred by the user resulting from the user changing or attempting to change tubes.

SPECIFICATIONS
FOR THE ALLNIC AUDIO L-8000 DHT LINE STAGE PREAMPLIFIER

- Inputs: Line level × 5 pairs (Balanced × 2, Unbalanced (RCA) × 3)
- Outputs: Balanced × 2 pair
Unbalanced × 1 pair
- Input Impedance: 10kΩ Balanced/Unbalanced
- Frequency Range: 20Hz ~ 20kHz (FLAT)
16Hz ~ 75kHz (-3dB)
- Voltage Gain: +18dB
- THD (1kHz): Output 0.3V, 0.06%
Output 1.0V, 0.16%
- S/N Ratio: -90dB (CCIR, 1kHz)
- Maximum Output: 20V RMS (Non-clipping)
- Output Impedance: 120Ω Constant
- Power Consumption: 30W at 110/120V / 60 Hz
- Tubes: 3A/109B x 4 First and second gain stages (equivalent to CV1663 and VT87_GPO) or 3A/109B x 2 and 3A/109A x 2 (gain and output stages)
7233 (no equivalent) × 2 (Voltage Regulator) (2025 forward production will replace the 7233 tubes with 6C19P) **NOT equivalent to 7233; 7233 and 6C19P ARE NOT INTERCHANGEABLE**
5654 (equivalent 5654W, 6AK5W, CV4010, M8100, 6096, E95F, E905F, 6096) × 2 (Voltage Regulator)
- Fuse: AC 3A, 250V 5x20mm slow-blow for 110/120V regions
AC 2A, 250V 5x20mm slow-blow for 230/240V regions
- Tube chimney screws: 2mm Allen head
- Dimensions: 430mm (16.9291 inches) (W)
400mm (15.75 inches) including handles (D)
211mm (8.3 inches) (H)
- Weight: 20.5 kg (45.2 lbs) unpacked.
22.5 kg. (49.6 lbs) packed in original shipping material

WARRANTY

FOR WARRANTY SERVICE, PLEASE CONTACT YOUR AUTHORIZED ALLNIC DEALER.

Except for the tubes, this Allnic Audio product is warranted against materials and manufacturing defects only for two (2) years from date of purchase. The tubes in this product are warranted against materials and manufacturing defects only for six (6) months from date of purchase. Date of purchase is the date indicated on the invoice issued by Allnic Audio or its authorized representative for original purchase of the new product. The warranty does not cover any damage occurring during product shipment at any time, nor any damage occurring as a result of any of this product's owner's or owners' negligence or willful mistreatment. Failure to operate or care for this product in accordance with instructions in this manual will be deemed negligent. For the warranty to be valid, this product must be returned first to Allnic Audio's authorized representative for warranty service prior to any unauthorized attempt to repair or modify it. Any repair done to or modification of this Allnic Audio product at any time performed without specific authorization from Allnic Audio or its authorized representative will void the warranty. Allnic Audio and its authorized representatives shall be the sole determiners of whether the warranty has been voided. Provided that the warranty has not been voided, the warranty is transferable for the balance of the original purchaser's warranty period.

The warranty covers parts and labour only. If required for warranty service, shipping of this product to and return to product owner from an authorized Allnic representative will be at product owner's sole cost. In the case of required factory warranty service, shipping to Korea shall be at product owner's sole cost. Provided that Allnic has determined that the warranty is not void, Allnic will pay the cost of return shipping to product owner. If Allnic determines that the warranty is void, return shipping to product owner will be at product owner's sole cost.

After expiry of the applicable warranty period or if the warranty is void, Allnic Audio and its authorized representatives are not responsible for nor obligated in any manner whatsoever to undertake, or to cover or reimburse the costs of any repairs or modifications to this product.

The warranty does not cover and Allnic Audio and its authorized representatives are not responsible for any incidental costs or damages to the person or property of original purchaser, any subsequent owner of this product, or any third party occurring as a result of any malfunction or misuse of this product however and whenever caused.

FIGURES

Figure 1 – L-8000 DHT Left Side Panel View

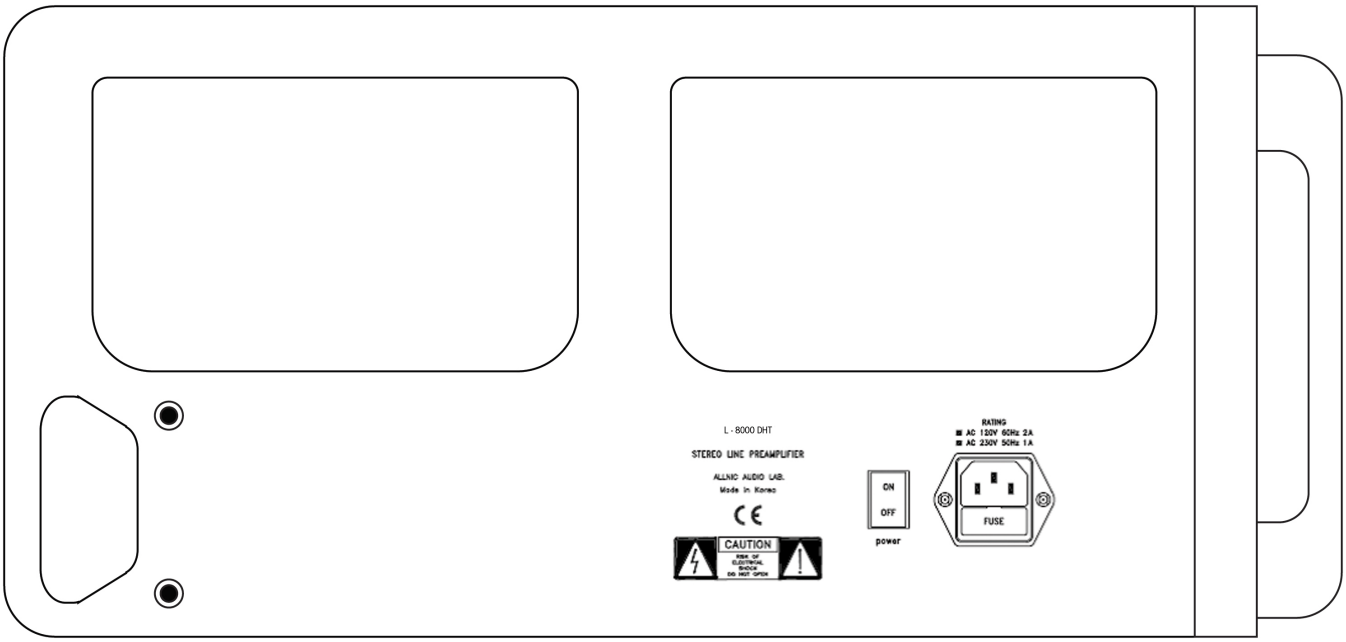


Figure 2 – L-8000 DHT Rear Panel View

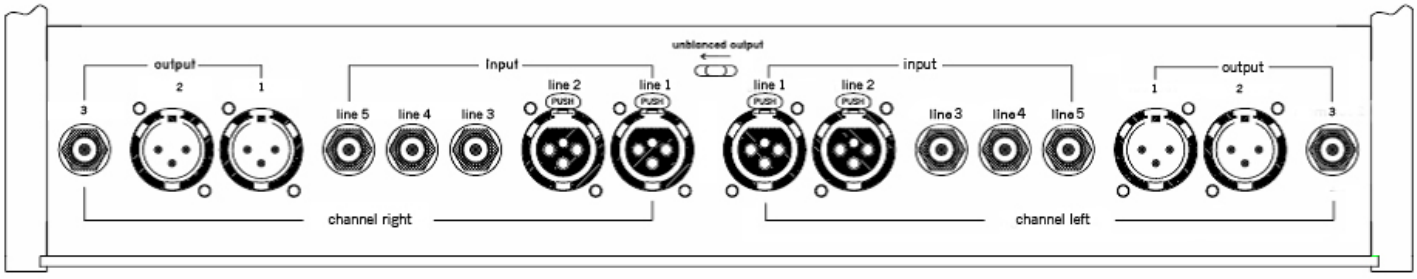


Figure 3 – L-8000 DHT Remote Control

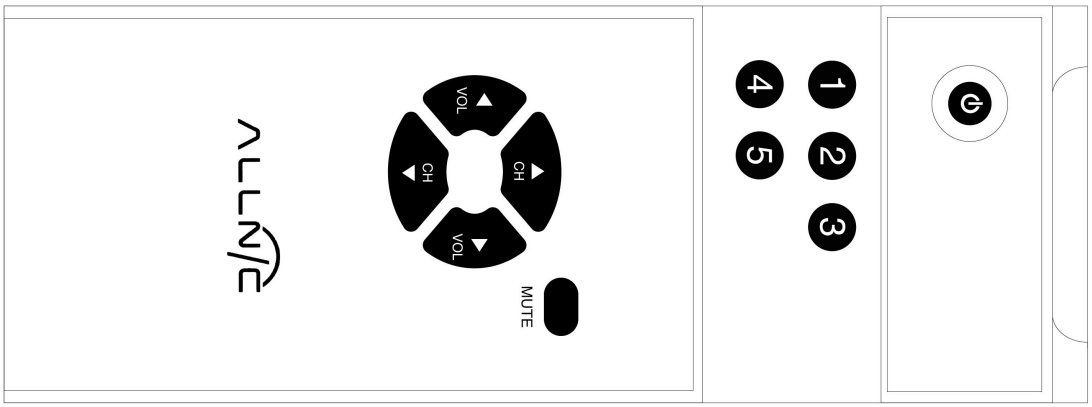


Figure 4 – L-8000 DHT Front Panel View

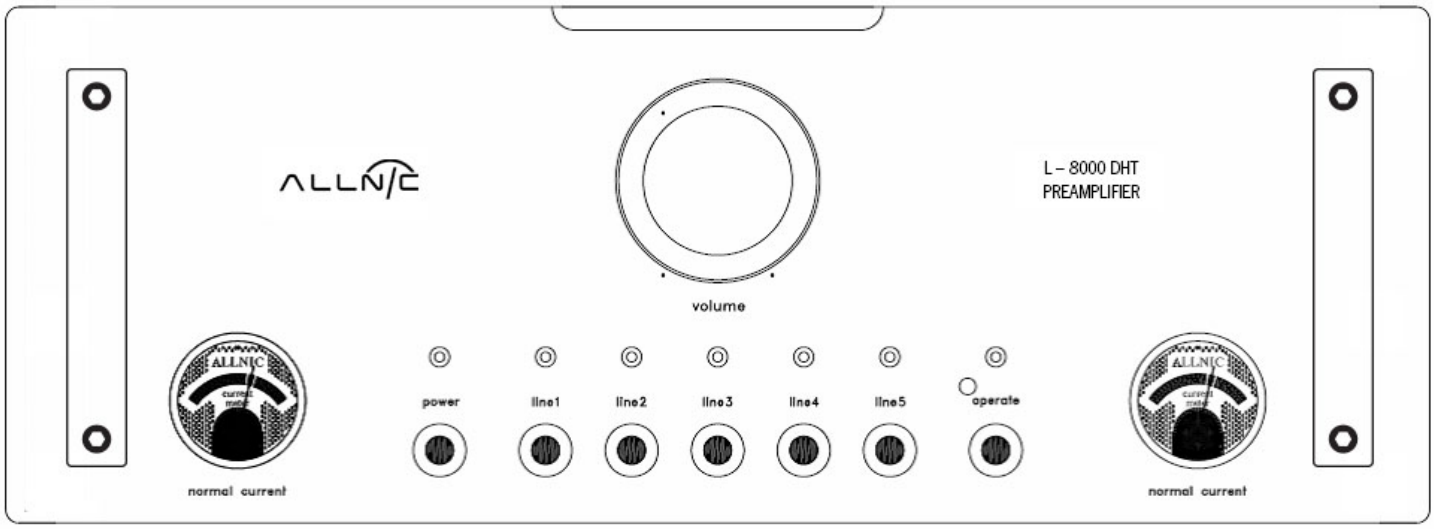


Figure 5 – L-8000 DHT Top View