



T-1500 MK2

300B SET STEREO INTEGRATED AMPLIFIER



OWNER'S MANUAL

ALLNIC AUDIO

T-1500 MK2

300B SET STEREO INTEGRATED AMPLIFIER

Thank you for purchasing the Allnic Audio T-1500 MK2 300B SET Stereo Integrated 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 T-1500 MK2 300B SET Stereo Integrated 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>

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Please read about SAFETY before you attempt to use the T-1500 MK2 300B SET Stereo Integrated Amplifier - we care about our customers and the equipment, and we want you to enjoy this product for a long time!

INTRODUCING THE T-1500 MK2 300B SET STEREO INTEGRATED AMPLIFIER

The T-1500 MK2 stereo amplifier is Allnic Audio's top of the line 300B SET stereo integrated amplifier model. Like all Allnic Audio products, the T-1500 MK2 has 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.

The T-1500 MK2 has the following features:

- 10 watts per channel of pure Class A, high power output. The T-1500 MK2 is a SET (Single-Ended Triode) power amplifier. Almost all other 300B amplifiers are under, and distortion, driven. This is a result of the use of conventional "Resistor-Capacitor" circuits, which give only up to around a 70V swing voltage, with high distortion. This means that an already distorted signal of a lower than optimum swing voltage is directed to the deep biased 300B grid. Allnic's powerful "Inductor Drive" circuit gives up to a 90V swing voltage, with very low distortion (about 0.3%). It is this drive delivered to the T-1500 MK2's 300B power tubes that allows for a higher output (10 watts) and lower distortion than what can often be expected from standard 300B circuits.
- The T-1500 MK2 uses the excellent and popular 6SL7 and 6SN7 tubes for its preamplifier and driver sections. There are many brands, both new and old, of these tubes, and the T-1500 MK2 is a "tube-roller's dream", as a result of its ability to use all the available brands of these tubes.
- Nickel alloy output transformer. Allnic uses sophisticated ratio mixed nickel permalloy PB cored output transformers. Because of their extremely high initial permeability, it is possible to use lower turns on the primary winding while retaining very high 'open circuit inductance". That means a resulting very wide frequency range and low distortion bass response. This is another reason why the T-1500 MK2 excels over other 300B integrated amplifiers. Allnic also use a very big nickel core, so as not to be magnetically saturated at a high current of level of 100mA.
- Long life and trouble-free operation. Allnic employs a "soft start circuit" to protect the tubes and other parts. It applies the high B+ voltage only after tubes are fully warmed-up.
- Auto-bias of the power tubes, with current meters for 300B monitoring. Auto-bias provides bias stability for the life of the power tubes. The associated current meter for each 300B indicates the status of tube, providing a clear indication of the tubes status. In conjunction with the auto-bias feature, the T-1500 MK2 can utilize any brand of 300B. The T-1500 MK2 can also use tubes such as the 300B XLS, though it will not drive those tubes to their full capability.
- Natural negative feedback. The T-1500 MK2 applies about -6dB of negative feedback. This is a very complimentary amount of negative feedback that differentiates the Allnic 300B single ended amplifier from the standard, which has a very coloured and weak speaker driving force. With this natural feedback, the T- 1500MK2 has a relatively high "damping factor', very low distortion, and a higher S/N ratio, without losing the signature single ended natural sound quality.

- Allnic uses a high quality 41 step silver contact attenuator (all resistors non-inductive) instead of a carbon filmed slide potentiometer.
- Beautiful 20KHz square wave response (See Figures 1-3).



Fig.1 Square Wave 50Hz

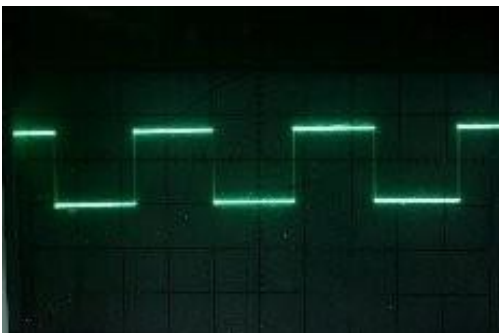


Fig.2 Square Wave 1KHz

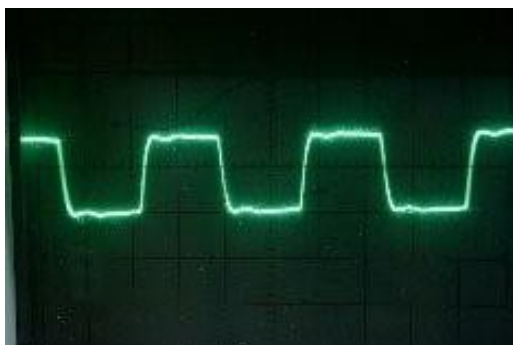


Fig.3 Square Wave 20KHz

Measured by LEADER LAG-126 Audio Signal Generator and KENWOOD CS-4125 Oscilloscope.

- As are all Allnic Audio products, the T-1500 MK2 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 T-1500 MK2 300B SET stereo integrated amplifier
- One (1) Owner's Manual
- Power cord
- Remote Control

Note:

- 1) The T-1500 MK2 ships with the tubes installed.
- 2) The T-1500 MK2 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 T-1500 MK2 in your system.
- 3) **Be sure the T-1500 MK2 is labeled for the AC voltage of your location (See Figure 2). If it is not, DO NOT connect it to your AC outlet. Please contact your Allnic dealer.**

We advise that you keep the boxes and other packing materials that your T-1500 MK2 came in. It will be useful if you sell your T-1500 MK2 or in the unlikely event you need to ship it for service.

SAFETY

- **Remove ALL protective cushioning material inside the tube chimneys before operation. The tube chimneys should contain NOTHING except the tubes.**
- Disconnect the power cord by pulling the plug, not the cable.
- Do not attempt any repairs. Do not remove the unit's chassis cover without specific authorization from Audiomentors.
- Keep the power cord away from heat sources
- 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 T-1500 MK2 into an AC connection.
- Do not attempt any repairs.
- 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, chassis and tube chimneys of the T-1500 MK2.

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 T- 1500 MK2 needs to be placed on a solid stand in a location that provides good air circulation around, above and below the stereo amplifier.

- **DO NOT** cover the top of the T-1500 MK2.
- **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 T- 1500 MK2 on some kind of after-market isolation feet or similar devices. Dropping one side of the T- 1500 MK2, or the whole of the unit, is not a good thing to do.
- **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 chassis for long periods of time. This could discolour the metal.
- **DO** place the unit on a shelf or stand that is stable and not subject to vibration or sudden shock.

- **DO** consider using a high quality power cord, interconnects and speaker cables. The T-1500 MK2 is a highly sensitive piece of electronic designed for neutrality and will output what you put into it. **Allnic's Zero Loss Technology cables** will work synergistically with the T-1500 MK2.
- **DO** try to place T-1500 MK2 away from major sources and potential receivers of RFI and EMI. Though well shielded, the T-1500 MK2 will function best away from large power transformers and other sources of such interference and from other equipment that could be susceptible to such forms of interference.

B. INPUTS

There are four (4) RCA type female inputs (See Figure 5). Your interconnects will require male RCA terminations. Facing the rear of the chassis, the input connections are to the right of the IEC power input and the Pre Out terminal pair. The left channel connector is the top one in each line input pair.

C. PRE OUT CONNECTIONS

The T-1500 has a pair of RCA type female Pre Out (Preamplifier outputs) connections on the rear of the chassis, between the IEC connection and the Line Inputs (See Figure 5). The Pre Outs are connected passively; therefore, when they are in use, the 6SL7, 6SN7 and 300Bs continue to draw power and operate. These connections are for use to connect to one or a pair of powered subwoofers or, for bi-amping, to an external stereo power amplifier or pair of monoblock amplifiers (preferably with the same gain as the T-1500 MK2).

D. SPEAKER TERMINALS

The T-1500 MK2 is equipped with two pairs of high-quality speaker terminals. These terminals are located at the left of the back of the chassis (the right, facing the front of the chassis – See Figure 5). The positive terminal for each pair is on top, the negative below. Between the pairs of terminals is a vertically oriented toggle switch to select between either 4 or 8 ohm speaker impedance or 8 and 16 ohm impedance, as pre- specified by the owner. The T-1500 MK2 utilizes a circuit design that provides for full power from the output transformer regardless of the impedance selected with the toggle switch. Set the toggle switches to your preferred speaker impedance. Facing the rear of the chassis, the right pair are on the left outside left and the left channel pair are on the inside right. Facing the front of the chassis, the right channel pair is on the outside right and the left channel pair is to their left, on the other side of the impedance toggle. The terminals accept bare wire (not recommended) and spade and banana type connectors.

E. POWER CONNECTION

Connect the input interconnects and the speaker cables or the Pre Out connections before you insert the power cable into the receptacle at the centre of the chassis rear. The T-1500 MK2 uses a standard three prong male IEC connection for AC input (See Figure 5). You need to use a power cord with a female three prong IEC connector at one end. The T-1500 MK2 you have purchased is set internally for either 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 unit to the factory for re-wiring, at the owner's cost, including transport both directions.

INITIAL POWER-ON

Once you have your T-1500 MK2 in place and all connections have been made to your turntable and preamplifier, you are ready to turn on the power for your T-1500 MK2; before you power it up, though, be sure you have:

- removed ALL the cushion materials from inside the tube chimneys;
- ensured the batteries are in the remote control – if not, insert the batteries (by removing plate on the bottom of the remote control).
- checked that all tubes are snug in their sockets and, if you have removed the 300Bs in the process of removing the cushion materials, that the pin alignments for the 300Bs are correct (wide diameter pins and narrow diameter pins in the correct holes of the sockets. **This is essential.** Allnic Audio Labs and its authorized representatives are not responsible for any damage or loss to owner as a consequence of owner installing tubes incorrectly.
- ensured the interconnects are firmly attached.
- turned on your source(s).
- lowered the T-1500 MK2's volume control to zero or muted its output.
- securely and correctly fastened the speaker cables and ensured that they are also connected properly to the speakers.

Turn on the T-1500 MK2 by pushing the on/off vertically mounted rocker switch, located at the front of the right side panel (facing the front of the unit) to the "on" position (See Figure 4). The "on" position is with the vertical line on the switch (the upper portion) depressed and the part of the switch marked with the "o" (the lower portion) in the raised position. Of course, the off position is the reverse. After about a thirty to forty (30 - 40) second delay (the soft start), the T-1500 will be powered on.

If you are using an external amplifier or amplifiers, using the T-1500 MK2's Pre Out connections, turn on the external amplifier AFTER turning on the T-1500-MK2.

OPERATION

When the power is on, the current meters on the face of the chassis will illuminate. From this point on, the T-1500 MK2's operation is straight-forward. The face of the chassis has an input selector control knob, a volume control knob, and a pair of current meters (See Figure 7). The remote control (refer to Figure 6) will also control the input selections (using the number buttons or the buttons labelled "CH") and the volume (using the buttons labelled "VOL" and "MUTE"). However, it will not control the power to the T-2000 *25th Anniversary*, which must be switched on and off manually as described above. The power button on the remote control, at its top left hand corner (refer to Figure 6), is inoperative for the T-2000. Remove the screws on the bottom of the remote control to replace batteries.

When you are finished listening, first turn off any amplifiers connected to the T-1500 MK2's Pre Out connections; then turn off your T-1500 MK2 stereo integrated amplifier, and then turn off your sources.

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

THE CURRENT METERS

The illuminated meters indicate the current supply to each of the two 300B power tubes in the T-1500 MK2. When you turn on the T- 1500 MK2, the needle of the current meter for each 300B should be between the two parallel lines on the meter face. Any failure of a 300B tube is indicated by the needle on the meter moving out from between these two parallel lines.

If a meter's needle moves to or below the left parallel line on the meter face during operation, this indicates a failure of the related 300B tube. You must turn off the T-1500 MK2 and replace the tube. If you have any questions about doing this, please contact your Allnic dealer for assistance.

All consequences of changing or attempting to change tubes are borne by the user unless by express agreement between the owner and owner's Allnic dealer. Allnic Audio and its dealers are not liable in any way whatsoever for any injury or loss incurred by the user or for damage to the T- 1500 MK2, any of its parts, or tubes or replacement tubes resulting from the user changing or attempting to change tubes.

SPECIFICATIONS FOR THE ALLNIC AUDIO T-1500 MK2 300B SET STEREO INTEGRATED AMPLIFIER

- Output Power: 10w + 10w (4, 8 or 16Ω load, at 1KHz)
- Distortion: 0.3% at 1KHz, 2.83V
- Frequency Response: 20Hz - 20KHz Flat
- S/N Ratio: -80dB (CCIR, 1KHz)
- Damping Factor: 10 at 8Ω load at 1KHz
- Voltage gain: +35dB
- Input Impedance: 10KΩ (single-ended, unbalanced)
- Input Sensitivity: 230mV for rated power
- Tubes: 300B X 2 (power triode); 6SL7 X 1 (first gain stage); 6SN7 X 1 (second gain stage)
- Fuses: AC Mains - 3A / 250V (110W) (two supplied – one is a spare)
- Dimensions: (W x D x H) 430mm x 380mm X 240mm
- Weight: 22Kg net.
26 Kg shipping weight

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 4 – T-1500 MK2 Right Side Panel View

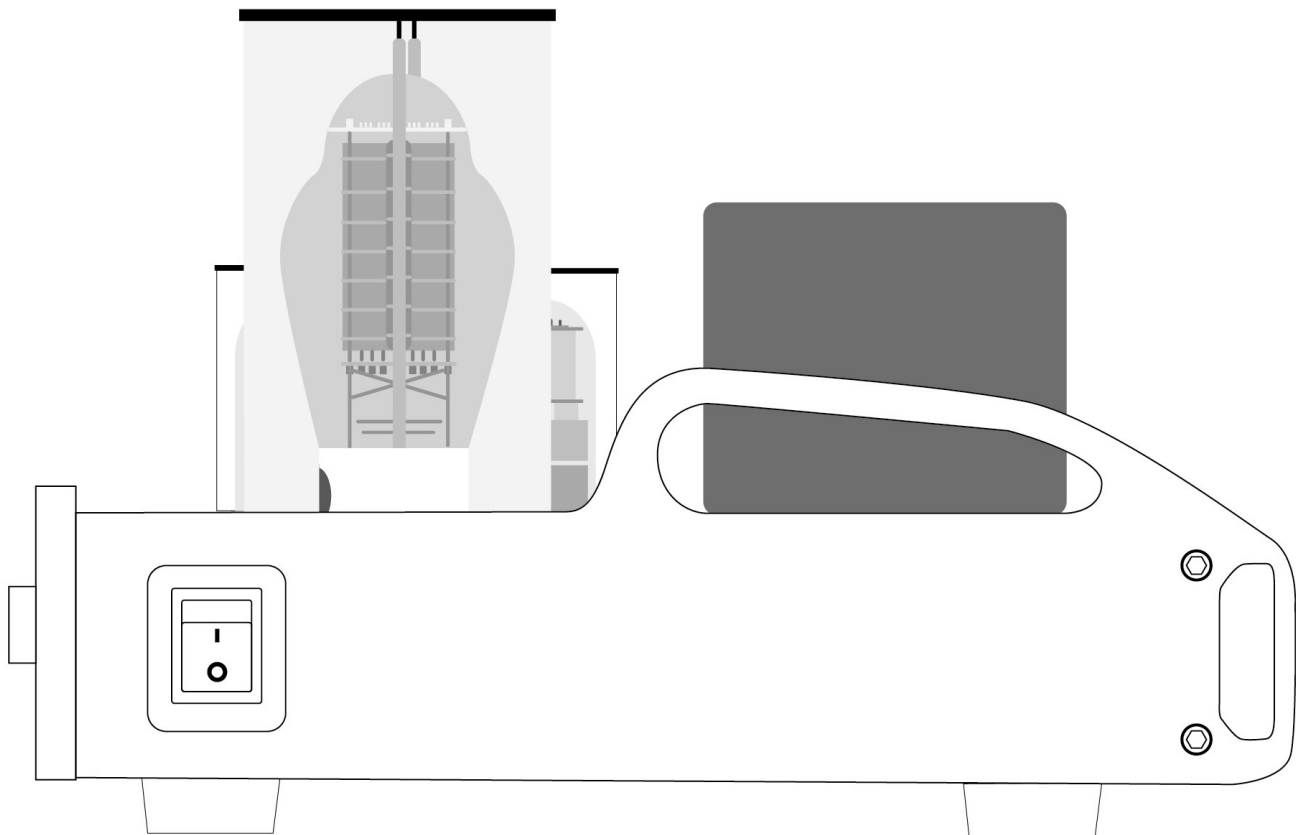


Figure 5 – T-1500 MK2 Rear Panel View

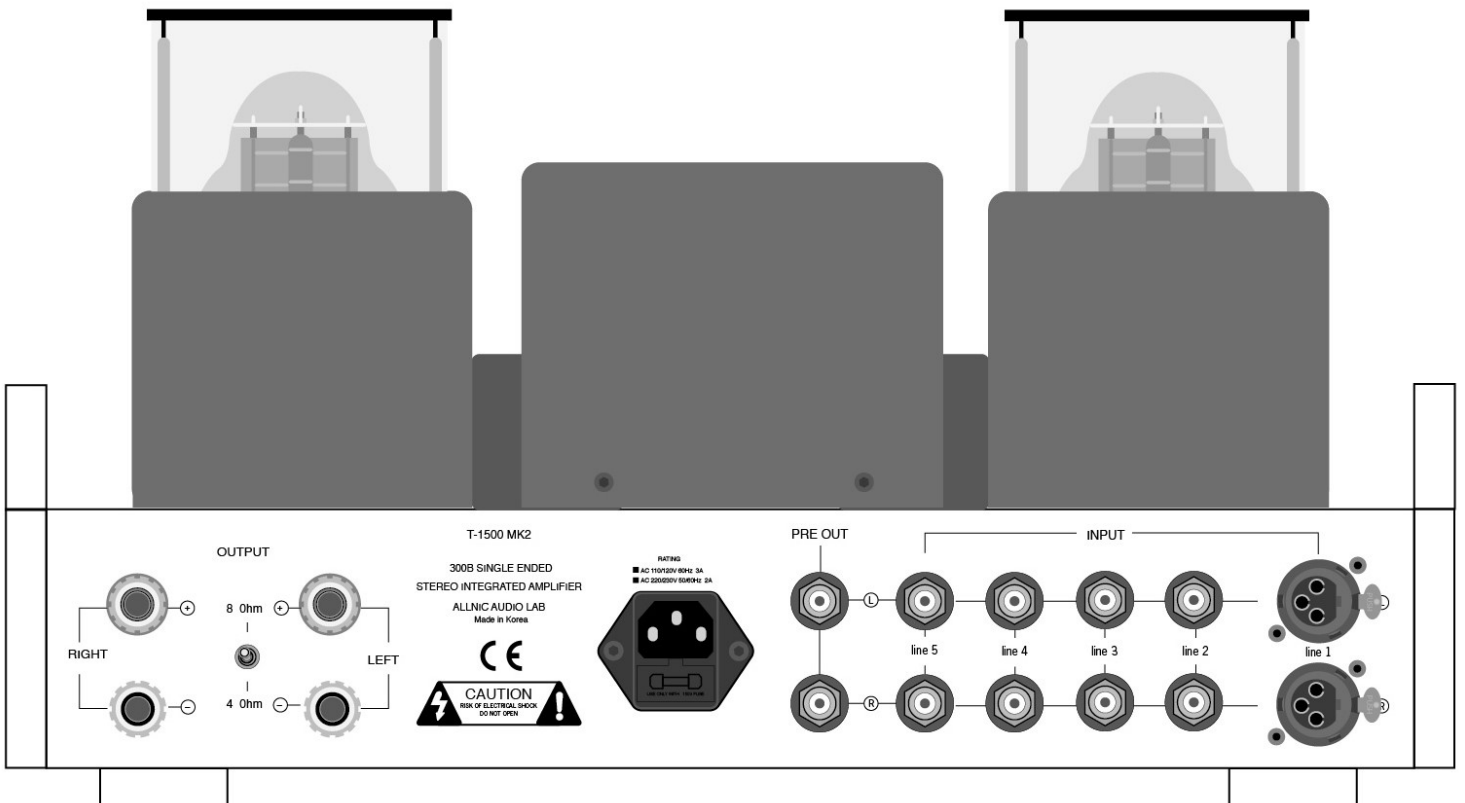


Figure 6 – T-1500 MK2 Remote Control

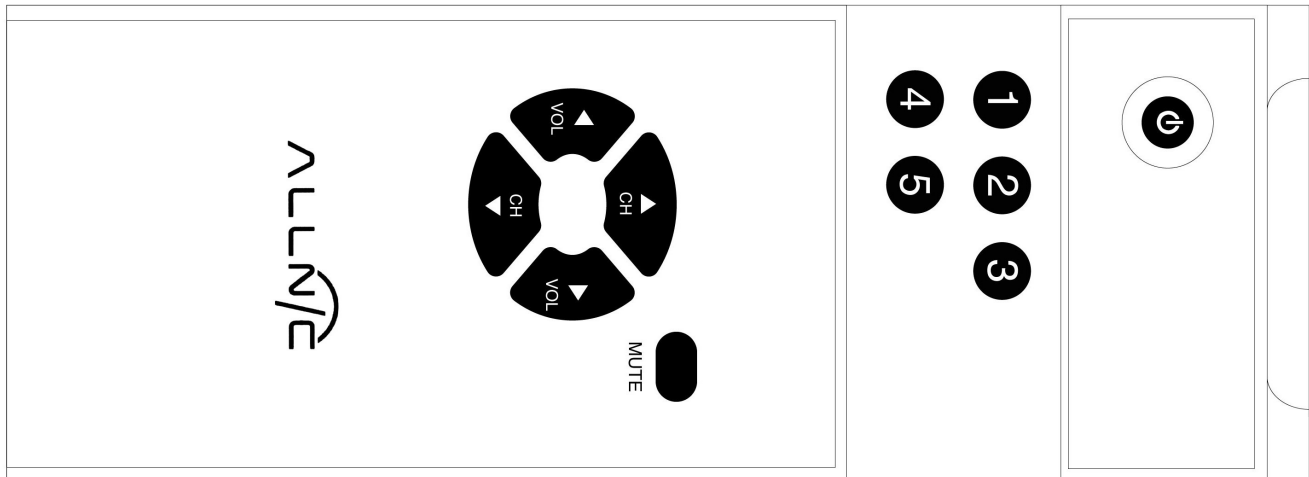


Figure 7 – T-1500 MK2 Front Panel View

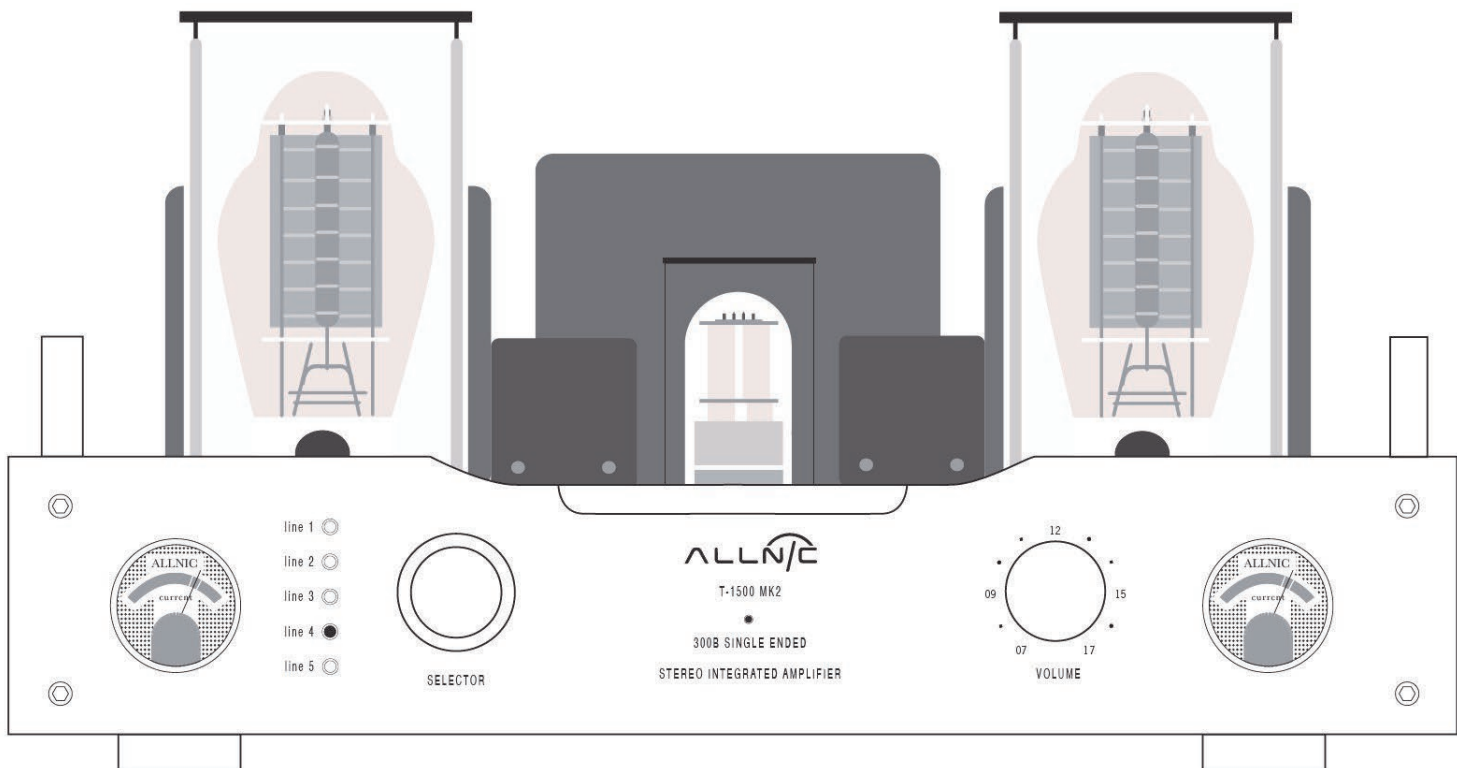


Figure 8 – T-1500 MK2 Top View

