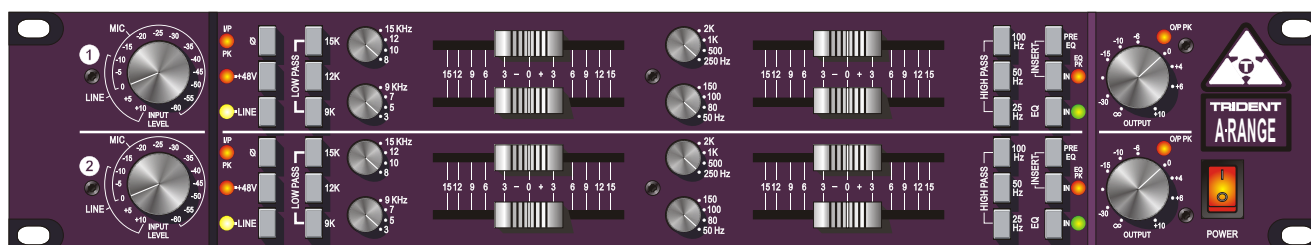


DUAL DISCRETE MICROPHONE PREAMPLIFIER AND EQUALISER



A-RANGE[®]

Dual Channel Strip

OWNERS MANUAL

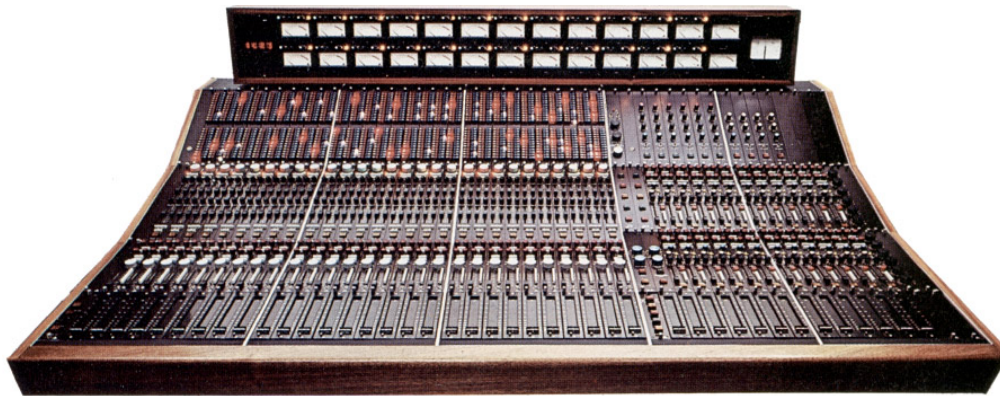


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ABOUT THE Trident A-RANGE



Trident Recording Studio's started operations back in the 1960's as a recording studio. Many things came out of the Recording Studio that led to what Trident Audio Developments is today.

Trident Recording Studios recorded legendary bands like David Bowie, The Beatles, James Taylor, Queen, Supertramp, Mott The Hoople, Bad Company, Free, Rush, Elton John, Manfred Mann, T-Rex and so many more, we simply do not have the space to list them all here. These recordings were done by incredible recording engineers like Roy Thomas Baker, Ken Scott, Tony Platt, Tony Visconti, Adam Moseley, Dave Hentschel, and many others. Trident Studios was the place known by the very famous bands as the place to record in London.

Trident studios was the first studio to acquire the first ever 8 Track from Ampex. No one in London had an 8 Track... not even EMI. When Trident got its first 16 track recorder, they decided to buy a new recording console but simply could not find any commercially available console to do 16 track recording with the feature set they needed. It was decided by the powers to be at Trident that between the recording engineers, and the technical staff under the direction of Barry Porter, Trident would attempt to build their own custom console.

The first console was designed purely for Trident Studios and was designated the 'A' Series. It was hand built to the need of the facilities and designed to be ergonomic. In those days, the integrated circuit (i.c.) had not been invented, so all of the circuits used individual transistors (known as discrete design). This and the use of inductors in the lower and upper mid equaliser sections are said to account for much of the unique sound of the 'A' Series. From this first successful design was borne Trident Audio Developments Ltd, which went on to become a leading manufacturer of music recording consoles. One of the company's earliest advertising slogans was 'designed by recording engineers for recording engineers'.

This became a key component of what made the 'Trident Sound' unique. As a recording engineer rather than an electronics engineer, Trident Audio Developments was designed by the engineers ears, rather than a text book of electronic design, and it is this, coupled with over thirty years experience that has enabled Trident Audio Developments to develop its own 'philosophy of sound' that is Trident's trademark.

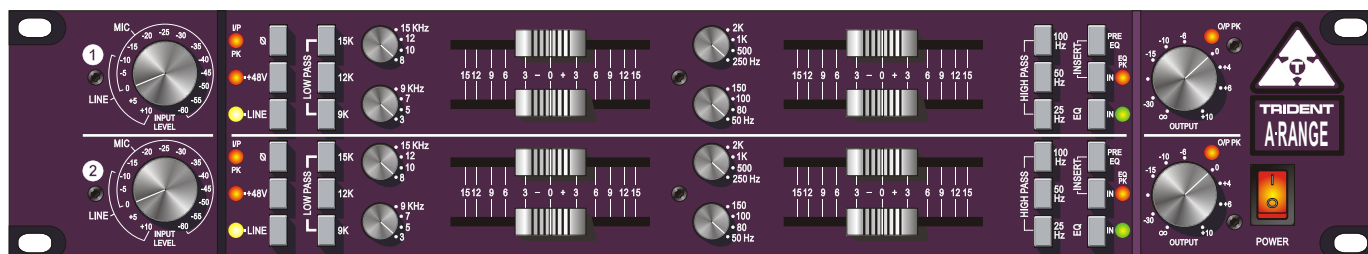
The "A" Series eventually led to the development of the "A" Range Console, which became the console everyone wanted to work and record on. The "A" Range was quickly labeled as the best sounding console ever. Today, PMI Audio has created a two channel version of the A Range Mic Preamplifier and the "A" Range 4 band EQ of the console and housed it in a 2U 19" Rack unit. This new dual channel unit is an exact replica of the original all discrete transistor circuitry, and it faithfully follows the original electronic circuit design to the absolute degree. So much so that it has taken three years of circuit analysis and testing by PMI Audio's designers and many of its former engineers who undertook the mammoth task of recreating the original's designs. Needless to say, Trident Audio Developments and PMI Audio are extremely pleased and proud to offer this unique piece of recording history.

There were only thirteen A Range consoles ever built back in the 1970's, and almost all of them have been rebuilt and are still in use today, despite being nearly forty years old. This says a lot about the heritage of these iconic items of recording equipment and the artists that have used them.

We hope you will enjoy the A Range as much as we have enjoyed designing it.



Trident A-RANGE Product Description

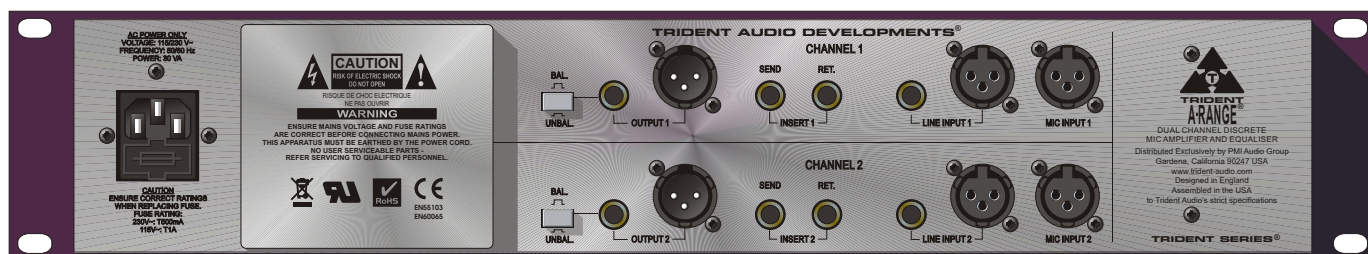


The **A-Range**® is a 2-channel rack-mountable version of the legendary Trident 'A' Range console. Comprising two independent channels, each with a microphone/line amplifier and four band equaliser, it is designed to process incoming signals from a microphone or line level instrument and output to a recording device, such as a digital audio workstation or analog multi-track tape recorder. Mains powered, with 48 volt phantom power independently switchable for the two channels, the A-Range® operates as a complete stand-alone unit.

In keeping with its mixing console heritage, each 'channel strip' of this rack unit features insert points (switchable pre/post EQ and with bypass), phase reverse (which operates on both microphone and line inputs) and an output level control with peak signal indication. All inputs and outputs are balanced so that maximum signal integrity and high output levels are assured with minimum distortion.

A useful additional facility when using it as a stand-alone unit is the inclusion of LED peak level indicators at key points in the signal chain. These are located: directly after the input amplifiers (microphone and line), after the equaliser section and after the main output amplifier. This ensures that the signal is accurately monitored and matched at all stages in the signal chain.

The A-Range® rack will add its own signature to any programme material, whether using just the discrete transistor microphone and line input preamplifiers or the unique and versatile equaliser sections.



Connecting The Unit

The rear panel of the unit provides both XLR and 1/4" jack inputs for the line input and output of each channel while a separate XLR is provided for the microphone input. The insert sends and returns are 1/4" jacks. The XLR connectors use the standard industry convention of pin 1 ground, pin 2 positive and pin 3 negative. The jacks are tip-positive, ring-negative and sleeve ground. For unbalanced use, connect the ring to the sleeve.

When connecting a microphone, set the 'Input Level' control for each channel to minimum, with the phantom power +48V switch off (LED extinguished). The microphone input is designed to accept the signal from low impedance, balanced microphones of either dynamic, ribbon or condenser types. The line input is designed to accept balanced or unbalanced, line level audio signals. Mic or Line input is selected via the front panel 'Line' switch (LED lights for 'Line'). The outputs from each channel are low impedance and designed to operate with long cable runs without signal degradation. A standard IEC mains inlet is provided for AC mains power. Operating voltage of either 120 or 240 volts is selectable by rotating the fuse holder incorporated into the mains inlet socket.



Trident A-RANGE Description

Input Section

The input section of the **A-Range®** rack consists of a very high quality transformer-coupled discrete microphone amplifier and transformer-coupled discrete line amplifier designed specifically for professional audio applications. The microphone and line transformers are custom designed to the exact original Trident A-Range specifications.

The microphone amplifier is designed to handle signal levels from -60dBu to as high as +10dBu without needing a separate pad switch. The 15-position combined mic/line gain switch is calibrated in accurate 5dB steps to provide precise matching of either microphone or line level signals. In conjunction with the 'Output' level control, very fine adjustment of signal level is achievable. The preamplifier exhibits very low noise while maintaining extremely fast transient response and a frequency response that extends beyond 40kHz. Naturally, best results are achieved when using a high quality condenser microphone. The microphone amplifier will also bring out the best in dynamic and ribbon microphones.

When connecting a microphone to the input of the unit, set the 'Input Level' rotary switch to its minimum ('O') position and the 'Output' level control to its 'O' position. The 'Line' switch should not be depressed. If required, engage the '+48V' phantom power switch while the 'Input Level' control is at minimum. The associated LED will show that phantom power is present. Allow up to 30 seconds for the microphone to reach normal operating level and advance the 'Input Level' control until a suitable level is achieved at the output of the unit. The 'O/P peak' LED signal indicator at the output stage of the circuit is designed to light when a signal level of +15dBu occurs at the output stage. This provides plenty of overload margin as the A-Range® is capable of very high output levels (up to +26dBu) into a balanced load. However, by setting the level as described above, adequate headroom is maintained and there should be no danger of overloading following equipment.

The phase (polarity) reverse switch is employed when phase interference occurs between multiple microphones. Such interference results when microphones, at various placements, pick up the same sound source at slightly different times. When the output of the microphones combine, cancellation occurs at certain frequencies. This effect is known as comb filtering. Switching the polarity on one microphone may serve to minimise this effect.

When using a line level signal, the 'Line' switch should be depressed (LED illuminates) and the 'Input Level' control switched to 'O'. +48V phantom power should never be selected in the 'Line' mode as this can cause a loud noise when the phase reverse switch is operated. In this position with the 'Output' level control also set to 'O', the unit is designed to give unity or 0dB gain. The line input gain can be adjusted in accurate 5dB steps in the same way as the microphone amplifier. However, the line input adjustment only operates between the +10 and -10 positions of the switch. In all other positions, the line input reverts to zero or 'unity' gain.



Trident A-RANGE Description

Operating the Equalizer

Set the 'Input Level' in accordance with the procedures detailed in the 'Input Section' section of this manual. Begin with all boost/cut faders set to their mid way ('0') positions. Adjust the low and high mid frequency controls to their minimum positions (fully clockwise). The high and low pass filter switches should be in their out positions. Set the frequency select switches controlling the high and low shelving sections, to 150Hz and 12kHz respectively. Lastly, set the 'EQ' switch to the 'IN' position (the associated LED will illuminate).

Moving any one or more of the four faders next to their associated frequency select switches to the right of centre, will result in the chosen frequency being increased in level. Moving the faders to the left of centre will result in the chosen frequency being attenuated. Operating the frequency select switch in the high section (8kHz to 15kHz shelving) will introduce a subtle change of emphasis of the high frequencies being affected. Operating the frequency select switch in the upper mid section (3kHz to 9kHz peaking) will introduce a distinct difference according to the frequency selected, since it is now peaking rather than shelving and also due to the characteristics of the inductor-based topology. Operating the frequency select switch in the 'lower mid' section, 250Hz - 2kHz peaking, will also introduce a distinct difference according to the frequency selected, again because of its peaking nature and the use of inductors in this part of the circuit. Operating the frequency select switch in the low section, 80Hz - 150Hz shelving, will introduce an effective change of emphasis to the low frequencies, according to the switch setting.

Finally, the three shelving 'low-pass' and 'high-pass' filter sections are employed to introduce a roll-off of either high frequencies or low frequencies respectively, according to which of the three push buttons are selected in each section. The high-pass filters are useful for the minimization of extraneous low frequency 'rumble' caused, for example, by someone's feet moving about near a microphone stand, nearby traffic noise, AC systems, etc. Additionally, a high-pass filter can be used effectively during recording to reduce the accumulation of low frequency sounds that can adversely affect a mix. The three high-pass corner frequencies are 25Hz, 50Hz and 100Hz. The low-pass filters are used to minimize high frequency noise that may cause 'harshness' in a vocal, or to tame the output of a violin or guitar amplifier, etc. Low-pass filtering is often employed on kick and snare drums and bass guitars, as well as a means of reducing 'hiss'. The three low-pass filter frequencies on the A-Range® are 9k, 12k and 15k. Filters can also be used in combination for greater effect.

The amount of boost (accentuation) or cut (attenuation) that is applied to the audio signal is entirely dependent on the programme content and it is not our intention to advise on this. Application of equalisation is a very subjective matter and is best learned by trial and error. The equaliser bypass switch 'EQ IN' is a useful facility for comparing the signal before and after equalisation.

Insert In and Insert Pre

These two switches are very useful when the unit is used as two independent 'channel strips'. The 'pre/post' facility allows the user to choose at which point an external signal processing device (such as a compressor/limiter) is inserted into the signal chain and the 'bypass' facility makes it possible to compare the unprocessed signal with the processed signal by the touch of a single button.

The 'Insert In' button enables the unbalanced Insert Send and Return points, which are accessible via 1/4" jacks on the rear of the unit. When 'Pre EQ' is selected, the 'Insert' point is located between the output of the Mic/Line amplifier and the input of the equaliser. In 'post' mode, the 'Insert' point is instead placed after the equaliser section and before the final output amplifier.

The ability to bypass the Insert makes it easy to compare the signal with and without the external processing device, with no need to unplug it from the Send and Return jacks on the rear of the unit. Without this function it would either be necessary to disconnect the external processor, or operate its controls separately. Because it is still connected (even when bypassed), it is possible adjust the external device (eg: to set the correct level) before it is switched into the A-Range® signal path.



Trident A-RANGE Trouble Shooting

No Power

Ensure the unit is selected for the correct mains voltage via the selector incorporated in the mains inlet socket on the back of the unit. Check the fuse (also in the mains inlet socket) if the unit has been powered with the wrong voltage.

Check there is a mains supply reaching the unit.

The microphone doesn't work

Is it connected to the correct input on the back of the unit?

Is the '+48V' phantom power switched on (for condenser microphones)?

Is the input selected to Mic ('LINE' switch not depressed)?

Make sure the 'Input Level' rotary switch is turned up.

The line input doesn't work

Is it connected to the correct input on the back of the unit?

Is the input selected to 'LINE' (LED illuminated)?

Make sure the 'Input Level' rotary switch is set to '0'.

The equaliser doesn't work

Is the 'EQ' switch selected to 'IN' (LED illuminated)?



Trident A-RANGE Technical Specifications

Input Impedance:

Microphone: 600 ohm transformer balanced
Line: 10k ohm transformer balanced

Output Impedance:

<100 ohm transformer balanced

Gain:

Microphone: 0dB to +60dB
Line: -10dB to +10dB

Noise:

Microphone: <-126dBu ref 150 ohm (20Hz-20kHz)
Line: <-85dBu (EQ In, 20Hz-20kHz)

Maximum Levels:

Mic Input: +24dBu at all frequencies
Line Input: +24dBu at all frequencies

Distortion:

Mic Input: <0.05% T.H.D. (-50dBu input, +4dBu output)
Line Input: <0.05% T.H.D. (+4dBu input, +4dBu output)

Frequency Response:

Mic Input: ± 1 dB 20Hz to 20kHz
Line Input: ± 1 dB 20Hz to 20kHz

Nominal Operating Level:

+4dBu

Peak LED Threshold:

+15dBu

In accordance with our policy of continuing product improvement, we reserve the right to alter specifications without prior notice.



Trident A-RANGE Safety Information

Important Safety Information



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO AVOID FIRE OR ELECTRIC SHOCK HAZARD, DO NOT EXPOSE THIS APPARATUS TO WATER, RAIN OR MOISTURE.

NOTE — This apparatus does not exceed the Class A/Class B (whichever is applicable) limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of the Canadian Department of Communications.

ATTENTION — *Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de class A/de class B (selon le cas) prescrites dans le règlement sur le brouillage radioélectrique édicté par les ministere des communications du Canada.*

These limits are designed to provide reasonable protection against harmful interference in a commercial/residential installation respectively. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. There is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television equipment reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by any combination of the following measures: (1) Relocate or reorient the receiving antenna (2) Increase the separation between the equipment and the receiver (3) Plug the equipment into an outlet on a circuit different from that to which the receiver is connected (4) Consult your dealer or experienced radio/television technician for additional assistance.

CAUTION — Changes or modifications to this equipment not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water. Do not expose to drips or splashes. Do not place any objects filled with liquids, such as vases, on the apparatus.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Do not install this apparatus in a confined space such as a book case or similar unit. Install only in racks designed for the purpose and in accordance with manufacturers' instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments and accessories specified by the manufacturer.



12. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. Apparatus designed with Class-I construction must be connected to a mains socket outlet with a protective earthing connection (the third grounding prong).
16. This apparatus may be equipped with a single-pole, rocker-style AC mains power switch. If so this switch is located on the front panel and should remain readily accessible to the user.
17. The manufacturer reserves the right to change the technical specification of the product without prior notice.



Statement of RoHS Compliance

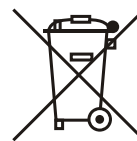
PMI Audio Group manufactures complete electronic products which are covered by the European Union's "Removal of Hazardous Substances" directive 2002/95/EC (RoHS). This directive seeks to eliminate toxic substances from the manufacturing process, such that when equipment is disposed of at the end of its life cycle, the materials it contains do not contaminate the environment and pose health risks. Banned substances are lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) and poly-brominated diphenyl ethers (PBDE). Lead is used together with tin in solder connections to reduce the melting point of solder. Lead-free solder requires higher soldering temperatures which in turn places greater thermal stress on components.



PMI Audio Group takes seriously its obligations under the RoHS directive and insists that its factories use only components that are certified RoHS compliant, as well as lead-free solder. In a very few cases the necessary components may not yet be available to the world market but we work continuously to eliminate any such exceptions at the earliest opportunity. Our printed Circuit Boards (PCB's) and all soldered joints have been lead-free since 2005.

Statement of WEEE Policy

PMI Audio Group manufactures many complete electronic products which are covered by the European Union's "Waste Electric and Electronic Equipment" directive 2002/96/EC (WEEE). This directive seeks to ensure that waste electric and electronic equipment is disposed of in an environmentally responsible manner, at the end of its life cycle. PMI Audio Group takes seriously its obligations under this directive to take back WEEE-affected products and, from 13th August 2005, will mark all such products with the crossed-out wheeled bin symbol.



Business to Business products: PMI Audio Group will cost-neutrally take back WEEE-affected electric and electronic equipment in this category, from 1st January 2006. PMI Audio Group will work with disposal and recycling partners working within the EU. The waste electric and electronic equipment can then be turned over to a disposal and recycling companies in the countries concerned.

Business to Customer products: emerging electric and electronic equipment will be disposed of by local authorities' collection systems.

Dual Use products: this equipment will be disposed of by local authorities' collection systems.



Trident A-RANGE Warranty Information

Trident Audio Developments Limited Warranty Statement

The following outlines the warranty periods for all Trident Analogue electronics. All warranty service requires Proof of Purchase. Proof of purchase is the original Bill of Sale, or Sales Invoice from an authorized dealer.

Trident Audio Developments electronics are covered by a limited warranty against defects in materials and workmanship (parts and labor) for a period of One (1) Year from the date the unit is sold to the Dealer or original purchaser only.

Acceptable registration is met by registering online at <http://www.tridentaudiodevelopments.com/product-registration/>

The terms and conditions of this limited warranty are:

1. The warranty applies to Trident Audio Developments Electronics purchased from Trident Audio or authorized Trident Audio dealers.

2. The warranty covers any defects in materials and workmanship and is limited to the repair or replacement of the original registered product. In its sole discretion, Trident may either repair or replace the product with a product of the same model or replace the product with a new model of a similar specification when the same model is no longer available.

3. The warranty does not cover any of the following: damage caused by the user: spillages or moisture damage; neglect, abuse or misuse, including but not limited to the failure to use the product(s) for its normal purpose in accordance with the manufacturer's instructions for use. Failure to properly maintain the product in accordance with the manufacturer's instructions, and/or the failure to use the products in accordance with the manufacturer's specifications; normal wear and tear; use of products with incompatible or faulty equipment; unauthorized modifications; repairs conducted by unauthorized persons or service center's; the model and/or serial number being altered, removed or made illegible; accidents; acts of God or any cause beyond the control of Trident Audio Developments. It does not cover damage caused by connecting to an improper power voltage supply, cosmetic defects, such as paint finish, and general wear and tear, as well as certain consumables not covered under warranty such as fuses, faders, pots, switches and meter bulbs. Mechanical components including but not limited to a consumable item; potentiometers, faders and switches are covered by a 90-day warranty. Failure to maintain, damage; neglect, abuse or misuse of any mechanical components in this time will result in a void warranty. Trident recommends regular service of the product and in particular; regular service of the mechanical components such as potentiometers and faders.

4. The warranty is applicable to the original purchaser throughout the warranty period as stated above or until original owner resells product. If a unit is received for warranty repair, and after complete examination and testing, no problem is found with the unit, customer will be charged for time labor plus return shipping costs, presuming initial user error falsely caused the unit to be determined faulty.

5. The warranty does not affect any statutory rights the original purchaser may have in accordance with the law applicable in the jurisdiction where the product was purchased, or any rights the original purchaser may have against the authorized dealer pursuant to their original purchase agreement. This warranty gives you specific legal rights and you may also have other rights, which vary from state to state, and or country to country.

6. Any claim pursuant to this warranty from the date of purchase of any Trident Audio Developments product must be returned, together with the original proof of purchase, to the authorized Trident Audio dealer that sold the product, or to the Trident Audio service center in the USA or our UK service center. All returns to Trident Audio, or any Trident Audio Service Center must be in the original packing, accompanied by the issued Repair Authorization, and must be shipped to the address specified on the Return Authorization via insured freight at the customer's own expense. Factory original packaging can be ordered from Trident Audio, Inc. Customer will be charged for new factory original packaging if customer fails to ship product to Trident Audio in the original factory packaging. Trident Audio will not pay for express or overnight delivery.

7. Once the product has been received, the authorized Trident Audio service center will assess the warranty claim and arrange to either repair or replace in accordance with the warranty procedure prescribed by Trident Audio for their authorized service center network. The warranty replacement will be conducted by the authorized Trident Audio service center as promptly as possible and within a reasonable time from the date of submission of the warranty claim. In all circumstances, a claimant under this warranty will be liable for all costs in delivering their Trident Audio brand product to the authorized service center for warranty replacement and for all costs in collecting the repaired/replacement Trident Audio product from that authorized Trident Audio service center. Trident Audio service center may waive the cost of return shipping after full inspection to determine cause of warranty.

8. Trident Audio will not accept any warranty replacement without the original proof or purchase of the Trident Audio product, and without the registration of the Trident Audio product within 30 days of purchase by mail, or online. It is the original purchaser's responsibility to keep the original proof of purchase or copy safe at all times, as Trident Audio is not obliged to provide a replacement of the original proof of purchase.

9. The warrantor assumes no liability for property damage or any other incidental or consequential damage whatsoever which may result from failure of this product.

10. A Trident Audio product that was not purchased through an authorized and legitimate sales channel is considered "Grey Market". Warranties for Trident Audio Products purchased outside the USA will be covered by its Trident Audio UK Service Center. Trident Audio product originally sold to the USA market and consequently resold overseas forfeits its warranty. "Grey Market" purchases are not covered by any warranty. In the case that a Trident Audio Product must be returned, it should be returned to the original place of purchase, or the Trident Audio factory, with proper return authorization. Returns from outside the USA, customer shall adhere to specific shipping, customs, and commercial invoicing instructions given with the Return Authorization. Trident Audio will not be responsible for transportation costs or customs fees related to any importation or reexportation charges whatsoever.

11. Trident Audio shall not be liable for damages in excess of the purchase price of the Trident Audio product arising out of the use or inability to use the Trident Audio product.

12. Governing Laws

Any dispute, controversy or claim arising out of or relating to this Agreement shall be decided by arbitration in Los Angeles, California, in accordance with the rules of the American Arbitration Association (the "Association") then in effect. Any award rendered by the Association shall be final, binding and not subject to appeal, and may be enforced by any court of competent jurisdiction.

For Tech Support and Repair Authorization, please contact: US Service & Sales

1845 W. 169th Street Gardena, CA 90247 at +1 (310) 323-9050 or sales@tridentaudiodevelopments.com

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Features and specifications are subject to change without notice



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