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Top GENERAL INFORMATION Are there reviews of Audible Illusion products? Yes, over the last thirty years there have been more than 150 free reviews about our products. The question (Please refer to our Reviews Link Page) Frequently asked questions What significant contributions have the sound illusions of products made for the audio industry? Over the years we have produced thousands of audio preamplifiers that have given a lot of fun to music lovers all over the world. Audible Illusions prides itself on being a pioneer in modern single-car pipe design. In the early 1980s, other audio companies continued to produce preamps based on venerable 12AX7 tubes with cascode chains, cathode followers and negative reviews etc. Audible Illusions was also one of the first audio companies to include automatic safety incorporation schemes that prohibit DC tube voltage jumps from damaging sound circuits in the event of an air conditioning failure. The first audio company that uses bare, oxygen-free copper marks on our PCB with teflon solder masks. We continue to hand-wash our printed boards with a silver-bearing solder. A.I. has developed a special scheme of soft start filament-on, which significantly extends the life of the tube. We were one of the first audio companies to develop very fast, low-powered FET adjustable power to support our audio designs. First to develop a stable, open loop, without the feedback line stage, which greatly improved the sound performance of our preamplifiers. We were the first parallel stages of the tube to reduce the output of impedance thereby eliminating the need for cathode followers. And, one of the first companies to use pure foil film capacitors in our audio circuitry. Today we are pleased to learn that most modern tube pre-installers are based on 6DJ8/ 6922 triode and that many of our refinements are currently used by other audio manufacturers. Frequently asked questions Why does A.I. produce both tubular and solid equipment? We believe that the best way to design a low-level amplification is to design a tube. For power amplifiers we believe the solid state is superior due to the complexity of the speaker's various loads. Our main consideration is that both technologies are true to music. Frequently asked questions What is the minimum period of hacking of A.I. equipment? It has become known that all high-quality audio products require hacking/burning in between. Audio equipment can sound somewhat harsh and two-dimensional until the various internal components rise up. Electrolytic power caps and all parts that have any insulation require the most burning. Pipes, FETs and transistors also take time. The minimum break-in time for our pre-benefits is 3-4 weeks of normal operation. Our pre-amplifiers still sound great right out of the box, but the open, multidimensional sound these pre-hads are famous for not happening. The complex dialectical structure in our own film capacitors is fully formed. After the break-in, further sound improvement continues with additional time and will continue to improve over a long period. Our power amplifiers also require a minimum hacking period of 2-3 weeks with continued audio improvement over a period of time. Should I use the equipment for air conditioning or noise insulation? In recent years there has been a significant development in the quality of power conditioning and noise insulation devices as audiophiles have discovered the sound advantage of the pure power of AC. We understand that good sound design should be able to give up foreign noise. Given that the high impact of tube circuitry is susceptible to such noise we design our products in such a way that the noise is not superimposed on the amplified music signal. Typically, we believe that our pre-installation tubes should be connected directly to the discrete wall socket provided that the air conditioning is clean enough. However, if excess DC residues or other artifacts float on the AC line, we recommend a quality air conditioning device. Most modern, high-precision power amplifiers will benefit from quality power conditioning. Very few amplifiers have adequate AC line conditioning and those that do are very expensive. Frequently asked questions What is the noise of the terrestrial loop? When two separate components, i.e., a preamp and an amplifier, connect to two separate AC circuits, the low-frequency hum is usually amplified by a musical signal and heard through the speakers. This problem is usually solved by connecting both components in the same chain or floating AC land lead of one component using a scam plugin. A more detailed description of this problem, with the proposed remedies, may be located on the website of our dealer in the UK: www.walrus.co.uk/tech/tech.htm frequently asked questions What Interconnect cables are recommended to use with A.I. equipment? Almost all interconnect cables will work with our equipment. However, please understand that all connection cables have a sound identity. Interconnect cables have measurable resistance and capacity, and when you put the resistor and capacitor together, guess what, you have tone control! You have to keep this fact in mind if you want to have an accurate musical playback. Try to keep the resistance and capacity of the cables at a minimum value for the required length. Frequently asked questions What is the difference between a balanced and one design? Basically, two types of electrical interface between audio components are used to connect single-content and balanced. Sound illusions are used by both. However, after years of pre-installation and amplifier design and research we have come to the following conclusions. For our tube preinst designs we believe that the simpler-it-better one-off design approach is best suited to sensitive sensitive Gain. For our more complex solid-fuel amplifier designs, we believe that, in addition to a single input, a balanced circuit is necessary to minimize the overall noise of the regime. Summary of these two design styles: Single-conceted structures use a single conductor cable to transmit a wave shape and a ground shield of the conductor for transmission - wave shape. The sound amplification scheme requires only a positive amplification chain with a negative strapped to the ground. This circuit requires less detail, but the designer needs to be careful in executing the circuit in regards to minimizing the extraneous noise from being superimposed on the musical wave shape. Balanced sound structures use separate circuits both to amplify the wave shape and to amplify the waves. Thus, the connection cables must contain separate conductors for both the third ground conductor and the general shield. The circuit is more complex and more expensive, but we feel it is necessary to have a high level of amplification, especially if the amplifier is associated with a long-term cable that may be susceptible to AC line interference or other noise. The frequently asked questions My audio system doesn't sound as good as other systems I've heard. What can I do? Finding audio perfection can be a frustrating experience. Building a large system requires more knowledge than money, and requires time and patience. Keep it up while that most of our authorized dealers have a lot of experience in setting up audio systems and properly setting up premises. We encourage you to work with the dealer and if you need more help, please feel free to contact our customer service team. We look forward to having an audio system that reflects your needs and feelings. Frequently asked questions What is the usual time to deliver A.I. equipment from the date of purchase? All Audible Illusions products are made to order and require at least 2-4 weeks to be delivered from the time of purchase. However, for the convenience of their customers, some of our major dealers do maintain a limited supply. Additional technical information posted on some of our dealers' websites. www.gaudio.com/Archives/gaarchives.htmlwww.walrus.co.uk/tech/tech.htmFAQ AUDIBLE ILLUSIONS TUBE PREAMPLIFIERS What is the purpose of pre-installation? If you don't play recording is the one really necessary? In order to be able to control the amplifier properly, there must be some device to switch different lines sources such as a CD, tuner, tape, etc. however, there are other important reasons for using the preinst. In recent years, various manufacturers of digital audio equipment have moved away from the industry standard of linear source equipment, with production from 1 to Vac. They currently produce their equipment with voltage outputs well over 2 volts in order to control the amplifiers directly, thus bypassing the preinstalled. Some of these companies also passive volume control and switching function in their products. We also evaluated power amplifiers with passive volume control on their input. Unfortunately, most of these controls and device switches are of poor quality and seriously impair sound performance. Another trend is the development of suspended, step-attenuator volume control. While some of these controls are produced to high standards, they are not capable of managing normal input amplifiers. In addition, with the help of low-frequency amplifiers, we measure excessive high-frequency folding. Another problem is that these passive controls cannot sufficiently envele the excessive peak volume of many digital players who are currently in production. As a result, many stages of entering the amplifier are severely damaged. A well-designed audio preamplifier should not only be able to connect/switch enough input devices, it should be able to optimally match impedances. In addition, the preinst must withstand peak input voltages without overloading the chain and protect the input stages of the amplifiers. Another requirement is that it be low in distortion and acoustically neutral. Indeed, modern, multi-component audio systems require well-designed pre-installations. Frequently asked questions Historically, why there have been so few big sounding preamplifiers? In audio design, it is generally assumed that the pre-amplifier is the most difficult to develop. Not only should these projects be able to amplify low-level signals, they should do so in a wide range of frequencies with minimal distortion and resolution of musical details. Also, if the preset has a phono stage, the additional complexity the RIAA call adds to the problem. Audio designers, like great chefs, all use the same basic ingredients and recipes/designs. In addition, most designers have their own interpretation of how their product should sound. Unfortunately, listening to music is a very subjective process, and very few audio designers refer to their designs to live musical performances. Thus, there are many individual interpretations of audio equipment, and it is hoped that one of them will catch on and appeal to a large enough group of audiophiles to make the product financially successful. This design practice proved very risky with hundreds of preinstalled designs dropped by the wayside. Frequently asked questions What makes A.I. preinst set so unique? Audible Illusions believes in proven sound design and refinement. In a study of large audio designs of the past we have identified that for low The amplification of one-end triode designs are the best. Single audio designs have been around for years. What makes our preinstalled designs so successful is the inclusion of modern technology and specially designed parts in these basic chain designs. Our designers understand the superiority of excellence the quality design of the vacuum tube. They also believe that these schemes should be simple with one stage of gain and without the error of feedback correction. Add to that ultra-fast, low-power powered power sources that can deliver voltage to meet the demand of complex musical wave shapes, and you have the start of a great audio pre-amplifier. It is also interesting to note that all of our products are completely handmade solder with the help of a special silver solder and carefully assembled in demanding specifications. For the sake of optimal sound performance, we have stopped the automatic wave-solder machine. We are proud of the quality of our circuit boards. Frequently asked questions Why do A.I. pre-amies have no control of tones? Our pre-installers are purist designs. We strive to produce them to be absolutely true to musical playback. However, while we understand that the original performance sometimes changes during the recording process, Audible Illusions will not add any additional coloring. The absolute phase of frequently asked questions. What does that mean? The enhanced beeps/sinesoids consists of a positive half and a negative half and both must correspond to the positive and negative polarity of the converter/speaker used to convert the electronic signal into sound waves. If the equipment is connected properly, it will result in the complete accuracy and specificity of the stereo image. If not, the stereo image will be narrowed and no definition. Recording and audio-electronic design methods differ in relation to the absolute phase. In order for the end user to properly co-act the audio system, it is important that manufacturers provide absolute phase information about their product. In most cases it is a simple question to draw wires on each speaker or phono cartridge. An excellent description of the absolute phase can be found in the archives section of Galen Carol Audio, San Antonio, Texas. frequently asked questions Why-A.I. pre-installation phase inverting? Our design philosophy is based on basic audio truth, the less in a box - the better the sound. Our exhaustive tests have proven that adding phase inversion steps only adds additional diagrams, making it more difficult to amplify the beep accurately. Given that the absolute phase can be saved by simply addressing each speaker connection, we believe that a phase inversion scheme is unnecessary. Frequently asked questions How does A.I.'s full preamp pre-suspension function differ from its line stage preamps? Both preinstalled designs use the same basic parts and topography of the chain. However, the full modulus 3a feature is a pure dual mono design that delivers separating the chain components, thus minimizing the cross-talk channel. Frequently asked questions Will modulus phono preamp work with low cartridge output? Yes, but with reservations. While the low noise pre-edited and the 58dB gain is enough to amplify many of the low performance cartridges we believe there is a general loss of dynamics and low bass performance. For low-power M/C cartridges (.1-1.8mV), we recommend our MC Gold Board variant. Frequently asked questions What vono cartridges are recommended to use with Modulus pre-use? Over the years Audible Illusions has gone through considerable effort to survey our dealers, audio reviewers and end users for their opinions on which vono cartridges are best to work with our pre-players. Periodically, we publish our revised list, which is delivered to dealers and included in each owner's manual. A copy of the current cartridge survey can be downloaded from our Technical Bulletin section. Frequently asked questions How long did the pipe in my last predictor? Russian mil-special tubes, currently installed in our pre-installations, should last 2-3000 hours or 1-2 years of normal use. However, we know that tube strands are very fragile and susceptible to rough handling. For this reason, and not to inconvenience our customers, we turn on the spare tube with each new pre-installed set. Frequently asked questions When is it time to change the tube? Assuming that there has been no premature failure or excessive noise you should expect to change the tube preamp kit after 2 years of normal use. When the tubes are not they make crackling sounds or ring excessively. Otherwise, you should notice a gradual softening of the dynamics and the folding of the trebles. Frequently asked questions Lee pre-21 waiting mode to extend the life of the tube? During our previous experience with pipe electronics in the recording industry we learned that if the equipment was left for the duration of the maximum stability of the circuit and the tube life was greatly extended. Aside from the breakdown, there is nothing more harmful to the delicate inner parts of the tube than to apply full current when it is cold. However, minimizing heat stroke by keeping the strands on this is only a partial solution for the extended life tube. It is necessary to turn to internal gas accumulation and possible poisoning by cathodes. In the early 1980s, we perfected a circuit that we believe will improve the life of the tube. Then, only by producing hundreds of pre-installations with and without this special chain and monitoring the life of the tube we were able to prove that it works. Subsequently, all the preamps of Modulus mfg. since 1985 have this backup scheme of soft launch. Frequently asked questions Lee removing the top cover from my Modulus preamping to improve my sound? Have at that time to ensure the maximum avoiding interference of the RF, our pre-strength chassis is built entirely of aluminum parts. Removing the top will expose the pre-ambient sensitive low-level circuit to unwanted noise and hum. Nor do we want our owners to be subjected to dangerous high voltage. Please don't operate your Modulus with its top lid removed! Frequently asked questions It is normal to remove the phono tube from my pre-amies if I only use the stage lines? DO DO Try to work the preinst with the phono stage tube removed! This will result in excessive high voltage on the fono stage connection lids and can damage the circuit. In addition, removing the phono tubes will significantly increase the strain of the thread on the tube line stage and jeopardize performance and shorten the life of the tube. Frequently asked questions What are the size of the box and its delivery weight? Audible Illusions presets are packed with two boxes, inside and outside. The approximate size of the outer delivery box is 170 x 27L x 8H. The delivery weight is 22lbs. Are upgrades available for old Audible Illusions pre-installations? Audible Illusions no longer changes/upgrades its old Modulus Series 1, 2 and 3 Preamps due to the fact that the special order of parts for modification of most models causes production delays. However, some of our dealers are selling factory-restored Modulus 3 and 3a Preampers. Now we offer a factory trade program. Please contact our customer service team if this is interesting. Frequently asked questions Top PREAMPLIFIERS - MANUFACTURING HISTORY 1978-79 DUAL MONO Stereo Preampifier - \$895 Tube compliment 1-12AX7, 2-6DJ8 for Channel 1979-81 MINI MITTE I Stereo Preampiator - \$295Tube compliment 1-12AX7, 2-6DJ8 1980-81 URANUS I Stereo Pre-Champiffl - \$995 Tube compliment 1-12AX7, 2-6DJ8 for Channel 1982 MODULUS Stereo Pre-Champifier - \$395 Relay Included Circuit. Tube compliment 1-12AX7, 1-6DJ8, 1-12AU7 1983 URANUS II Stereo Preampiator - \$1195 Tube compliment 1-12AX7, 1-6DJ8, 1-12AU7 per channel 1983-84 MODULUS ONE Stereo Preampiator - \$495 Outboard Power Transformer, Relay Turn Scheme, Tube Compliment 3-6DJ8 1985 MODULUS 2 Stereo Preampifier - \$595 Double Design Mono, No Feedback Line Stage, Compliment 4-6 61986 MODULUS 2A Stereo Preampifier - \$695 Updated version of Fashion 2 W Oxygen Free Copper Boards 1987 MODULUS 2B Stereo Preampiator - \$795Upgraded version 2A W FET B' Power Supply 1988 MODULUS 2C Stereo Preampifier - \$895 Updated version 2B With Jacks R Some units with stepped attenuator volume control, most of them Bourns conducting plastic pot volume 1989-92 MODULUS 2D stereo preampier - \$995 Updated version 2C 1993-95 MODULUS 3 Stereo Preampifier - \$1,495 - \$1695 Completely redesigned. Now with the 1994 L1 STAGE LINE Stereo Preampifier - \$1,495-\$195 C Class Of Headphones Amp 1996-09 MODULUS 3A Stereo Preampifier - \$1,895-\$2,495 Preampifier has undergone an annual upgrade. Now with stepped attenuator volume control, lower impedance scheme and specialized parts, capacitors, etc. 2003 L2 LINE STAGE Stereo Preampifier - \$2195 Remote control, district sound bypass scheme 2008-PRESENT MODULUS Stereo Preampifier - \$3495-\$3895 C stepped attenuator volume control, teflon teflon Double pole relay switching, low impedance circuit, and optional moving loops of the phono stage. 2011-Present L3 LINE STAGE Stereo Preampifier - \$3,695 With remote control, active unity get scheme, redesigned motherboard, and improved power source. Frequently asked questions Top PREAMPLIFIER TUBE REPLACE How often should my pipes be replaced? In the early 1980s, Audible Illusions developed a unique filament-on scheme in which pre-powered tubes would not be subjected to heat stroke, the main reason for the premature failure of the tube. With normal use, our factory-tested tubes must last at least two to three thousand hours, aprox.1-2 years, normal use. Frequently asked questions How can I tell if the tube is going badly? If the tube develops prematurely excessively of it, the hum or crackling sound is the only way to tell is to gradually soften the treble due to the normal wear of the plate. Audible Illusions recommends that for optimal sound performance, Modulus tubes must be modified at least every 12-18 months. Our pre-installation designs are based on a reasonable price of 6,922 pipes. High-quality pre-tested handsets are available from our dealers in the \$25-\$50 range. Frequently asked questions What are microphone tubes? All factory tubes are pre-tested on low-ishinfnik (ringing). However, if, with normal preinst use, any vibration causes a high-frequency ringing or ping sound that will be heard through the speakers, we suggest you replace the defective tube as soon as possible. Sound illusions are most aware of the fact that audio tubes are fragile devices and do not take kindly rough handling, especially in shipping. In the event of damage to the tube and minimizing the inconvenience to our customers, we always turn on the spare tube with each new pre-installer. Should my preinst tubes be matched? High performance of the pre-amplifiers should contain tubes that correspond to low noise and voltage. Modulus' no stage feedback line absolutely should have graded and matched the tube with a recommended voltage tolerance of 5%. The question (Please refer to the A.I. Technical Bulletin #2 which explains the simple method for classifying and matching pipes) frequently asked questions What handset is recommended for A.I. preinsts? The current owners of the pre-amplifiers should contact their owner's management or consult with A.I. Dealers authorized to sell the tubes. Additional related tube data in our technical bulletin #6.Only mil-special, low noise level 6922, 6DJ8, 7308 or European E88CC tubes are recommended for use in Modulus preseters. Previous production Modulus M2, M3, M3a and L1 used Russian 6922 tubes. Although the quality and sound performance of these pipes have been excellent for several years, it is a pity that the current production from the Soviet/Reflector plant does not have the same sound identity and a high percentage prematurely fail. Modern modulus M3a and L2 production pre-amplifiers use Russian military type 6922 6922 Grey slabs and have excellent sound data and reliability. Similar tubes that have different specifications should not be used. The 7DJ8 tubes require higher voltage filament and the performance is negligible. 6NIP tubes should not be replaced as they require an extra current thread and their use will compromise performance. Frequently asked questions What is a NOS tube? The audio term NOS simply means a new old stock. There are several tube suppliers who buy handsets that are no longer manufactured, which were considered acoustically excellent. Unfortunately, many of these pipes are used and do not meet current performance specifications. Keep in the information that some old brand of NOS tubes should not be used in modern, high profit, high performance preamplifiers like Modulus. Many of these older types of 6DJ8, 7308, E88CC tubes have weak insulators and their internal mesh is not wound to close tolerance. Thus, they have unacceptable microphones, tube hiss and high distortions. Frequently asked questions What is Tube Rolling? As far as we know, this term was first used by our good friend Roger Mojeski of Ram Labs. Roger really understands the desire of audiophiles to constantly tune their system and changing different brands of tubes can change the sound characteristics of a certain part of audio equipment. We continue to proudly display our tube rollers to the society button it gave us back in the mid-1980s.Swapping one brand 6DJ8 for another, especially with our one-end Modulus preamps, can be quite noticeable. However, the sound difference is perceived subjectively, and many of these tubes do not meet our technical specifications. We encourage you to read our technical newsletter #6 more information on this. More information about audio tubes is published by Tweak Shop on their website: www.tweakeshop.com/Tube_care.html Frequently asked questions Top AUDIBLE ILLUSIONS AMPLIFIERS What is the purpose of the amplifier? In order to bring the speaker to realistic levels of sound, it is necessary to use a quality amplifier to enhance the low-level source of the signal with minimal distortion and sound coloring. Frequently asked questions Why do A.I. amplifiers now have a solid state? Simply put, tube energy amplifiers tend to be problematic and expensive to operate, and very few tube amplifiers work well at frequency extremes. Audible Illusions also believes in pure Class A and High Bias Class AB amplifiers to ensure maximum linear performance. Unfortunately there are simply no more any good power tubes being made that can reliably perform on the high voltage plates required by our push-pull tube designs. We also call to produce a solid state amplifier that had a medium-sized tube amplifier, but also bass control, dynamic contrasts, superior damping factor, low distortion and transparent sound. Frequently asked questions Why A.I. A.I. how are bipolar and FET devices in their design? Isn't FETs better? Audible Illusions uses both bipolar and FET transistors in its amplifier designs for optimal effect. High-speed bipolar transistors are used exclusively at the driver and output stages, as these devices have excellent dynamics and current processing ability. We believe that Field Effect Transistors, FETs, is best suited for some low-noise audio applications and MOSFETS is best suited for discrete power schemes. Frequently asked questions What is the difference between a Class A operation and an AB class? Class A amplifiers, either push-pull or disposable designs, have their own simple slope, set very high. This ensures that the output devices work in optimal linearity. This high bias also provides minimal distortion. Keep in mind at the time that many Class A amplifiers are running hot because of the lack of heat heating design. Massive thermal sinks of Audible Illusions amplifiers ensure that they only work warm to the touch. AB class amplifiers work in push-pull mode. This means that for each free pair of output devices, one device pushes the positive top half of the sinus wave, while the other device pulls the negative half. Properly designed, there should also be enough slope to ensure that the amplifier runs at a low volume in Class A mode at least 10% of its nominal output. Audible Illusions Class AB amplifiers are also biased to ensure that no free pair of output devices are turned off. This technique eliminates crossover distortions. An excellent comparison of Class A and AB operations is described by our British Walrus Audio dealer. www.walrus.co.uk/tech/tech.htm frequently asked questions Do A.I. amplifiers work hot? Audible Illusions amplifiers work warmly to the touch due to their highly offset circuit. However, massive heat sinks and safety circuits prohibit overheating. Frequently asked questions How well do A.I. amplifiers handle low-impact speakers? Our amplifiers are high-precision structures and doubling their power to lower loads. Another important consideration is their stability in speakers with highly reactive momentum curves. Frequently asked questions Are amplifiers A.I. bridge designs? Absolutely not. Almost all audio speakers have non-linear pulse curves and require a stable power amplifier. As a rule, bridge amplifiers do not have the current drive and stability required to handle complex loads of speakers. Frequently asked questions The recommended hacking period? Amplifiers of sound illusions require a 2-3-week period of hacking. Further refinement of the sound will continue over the course of the времени. ВЕРХНИЕ УСЛИТЕЛИ часто задаваемых вопросов - MANUFACTURING HISTORY 1979-81 MINI-MITE II STEREO TUBE AMPLIFIER - 45wpc, Класс AB, \$695 Труба комплимент 1-12AX7, 1-6CG7, 2-EL34 за канал 1980-81 M-80 MONO TUBE AMPLIFIER - 80w, Класс AB, \$995 каждый комплимент метро 1-12AX7, 2-6CG7, 4-6550 1982-83 S-50 STEREO TUBE AMPLIFIER - 50w,pc,pc 50w,pc,pc AB, the \$995 successor to the Mini-Mite II, the amplifier has a larger power transformer, 1st voltage amplifier and reissued the front panel. The tube compliment is 1-12ATT, 1-6CG7, 2-EL34 for channel 1983-84 M-80 MONO TUBE - 80w, class AB1, \$1495 each successor to the previous M-80 with large power transformers, power threads and a newly styled faceplate. Tube compliment 1-12AX7, 2-6CG7, 4-KT88 1989-91 S120 STEREO, SOLID STATE - 120wpc \$1495 A.I. First solid state design. 1992-97 S120A STEREO SOLID STATE AMPLIFIER - 120wpc \$1795 Successor S120. The amplifier is regulated by relay circuits, larger driver boards with higher transistor speeds, 1998-00 S120B STEREO SOLID STATE AMPLIFIER - 120wpc \$2795 Successor S120A, Redesigned FET Driver Scheme, reissued 1998-01 M150 MONO SOLID STATE AMPLIFIER - 150w, Class A, \$7,495 per pair of adjustable relays. Same-value or balanced input. PRODUCT UPGRADES product updates for older products are no longer available. In addition to the usual repair and maintenance of amplifiers and pre-installations A.I. The Factory Exchange program is now available for pre-amplifiers of older Modulus Series 3 and 3a. (Please contact A.I. Customer Service for details) top-FACTORY SERVICE-Guarantee and A.I. A.I. Guarantee on service products is performed, free of charge, for parts and labor for all A.I. products within 2 years of purchase. (Please read the warranty contract) The warranty period for tubes is 90 days from the date of purchase. Plant maintenance/repair A.I. products are no longer covered by a warranty called at \$85 per hour, (1-hour minute) plus parts and reverse delivery. The Top OWNER'S MANUALS Guide to Current Production Products can be purchased from Sound Illusions for \$15 each. Photocopies of anuals for older products are \$20 each. Your request and payment must be mailed to Audible Illusions, PO Box 2537, Daytona Beach, FL 32115. 32115. audible illusions modulus 3a owners manual

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