



# Quattro

Pre-Amplifiers

## User Manual

### **Models Covered**

Quattro Pre-Amplifier 2 Box  
Quattro Pre-Amplifier 4 Box

## Introduction

Congratulations on your purchase of the World acclaimed “Quattro” pre-amplifier from Audion.

Your Audion Amplifier is the result of nearly 20 years exhaustive research and development culminating in our current world class product. The chassis is made of anodised aluminium designed to minimise magnetic interference and reduce internal noise to an absolute minimum. All our amplifiers are hand built using only the finest components available offering the highest quality.

The Premier Quattro is a precision made pre-amplifier. due to the extensive use of Silver wire and high accuracy components a burn-in period of approx. 100 hours plus is required before the benefits of this world class award winning product reaches its full potential. The components are meticulously selected for sound performance and the entire product is built to military specification.

## Warranty

All of our products carry a 2 (two) year worldwide parts and labour warranty (less delivery charges). All valves/tubes are guaranteed for a period of 6 (six) months. This does not affect your statutory rights.

## Getting Started

Upon opening your box you will find:

1. Audion Pre-Amplifier
2. Power cord
3. This User Manual
4. Product Registration and Warranty form
5. Valves/tubes

Please keep all packaging and store in a dry and safe place.

Carefully remove the Audion Amplifier from its packaging and store both the box and the foam in a safe place, should, in the unlikely event that you ever need to return your Audion to us for maintenance, upgrading or servicing. The packaging has been specifically designed to protect your amplifier.

Before attempting to connect your Audion please read carefully and understand thoroughly the contents of this manual. Keep this manual near you when installing your Audion so it is handy for reference.

This manual is designed to assist both novice and experienced persons in achieving satisfaction from your Audion. It describes the features and operation

#### Please Note.

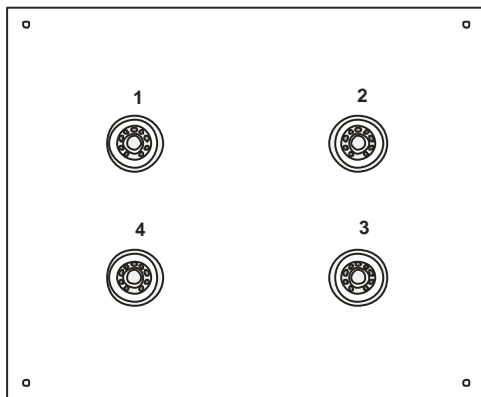
As with any electrical product extreme caution should be exercised. Do not place your Audion in direct sunlight. There are no user serviceable parts inside. The valves/tubes run **HOT** in normal operation, under no circumstance during operation should they be touched. If it becomes necessary to replace a valve/tube please allow at least 20 minutes from switching off for the unit to cool.

#### Valves/Tubes

You will now need to place the valves/tubes into your Audion. The Quattro uses 4 x 6922 or 4 x E88CC in the left and Right hand side front and rear (2 box) and also the (4 box) and none in the separate power supply. The Quattro ships with all its tubes in place. It is imperative that the tubes are kept in their original position as they have been carefully selected for optimum performance and minimum noise. If it is necessary to change or replace a tube it is very important that all tubes are matched.

If you have never handled a valve/tube before be careful – they are similar in properties to a light bulb and just as easily breakable. In use they can run as hot as a light bulb – *SO BE CAREFUL.*

The 6922 valve/tubes will only fit one way around into its respective socket. Before inserting check that the pins are straight and that there is no physical damage to the glass envelope. A small downward push is all that is needed to insert the valve/tube make sure that the pins align and that the orientation is correct. Do not use excessive force. Your Quattro's tubes have been carefully selected and matched to your pre-amplifier. Each tube is marked with a number 1 to 4 they go into your pre-amplifier as follows:-



All Audion valve/tubes are dynamically selected and where applicable are supplied as matched pairs or quads. All are supplied with a six (6) month return to base warranty.

### Please Note

Revision 1.3 Quattro

Inserting the valve/tubes the wrong way around will at the very least damage the valve base pins and may result in a loose valve causing crackling.

**WARNING** – Do not attempt to remove or replace valves/tubes whilst your Audion is in operation, as by so doing you could destroy the amplifiers circuitry – risk electrical shock to yourself and invalidate your Audion’s warranty.

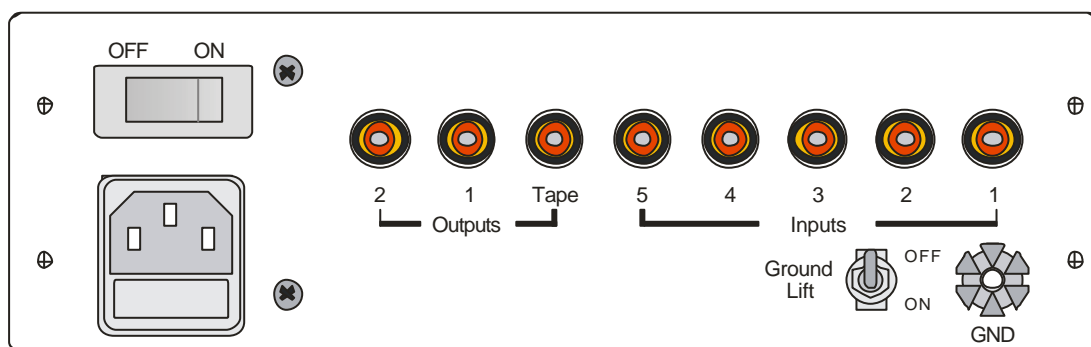
## Installation

### Positioning Your Audion

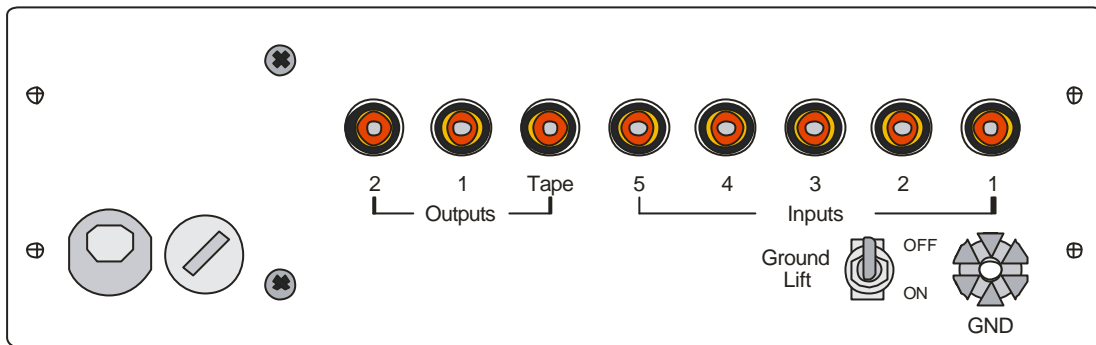
You will probably have in mind the location to place your Audion but remember, valves/tubes get warm and need a good circulation of air.

### Connecting

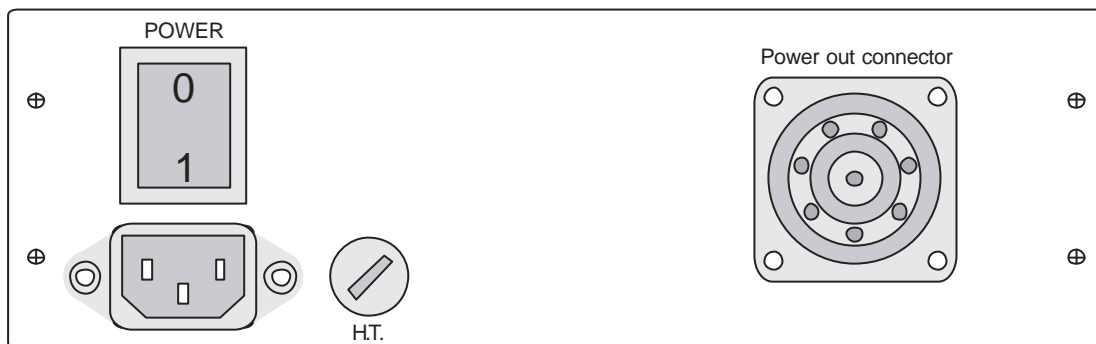
Your Audion is supplied with a power cord for your country of operation. However we recommend connecting your input and loudspeaker cables prior to connecting the power cord.



Audion Quattro (2 box) Pre-Amplifier Rear Panel Layout



Audion Quattro (4 box) Pre-Amplifier Rear Panel Layout



Audion Quattro (4 box) Power Supply Rear Panel

First connect audio input leads to the input RCA connectors. The left mono-block black sockets are for the Left input(s), the right mono-block red sockets are for the Right channel(s).

Next, connect the output cables from your Audion Pre-Amplifier to your Audion Power Amplifier. For all models the left and right channels are marked by red/black colouring and also their names ie left, right etc. Your connection cables should be of a suitable quality and connect to the corresponding red/black RCA connectors of your source equipment. We recommend the use of Audion Electron Interconnect cables. The output cables should connect between your Premier and the corresponding red/black RCA connectors of your power amplifier. For best results we recommend the use of an Audion Power Amplifier.

The ground lift switch is used to effectively reduce a ground feedback loop and hence noise from some installations. Finally connect the power cord to a mains electricity supply. Before

proceeding – Are all the connections fitted correctly and securely tightened?

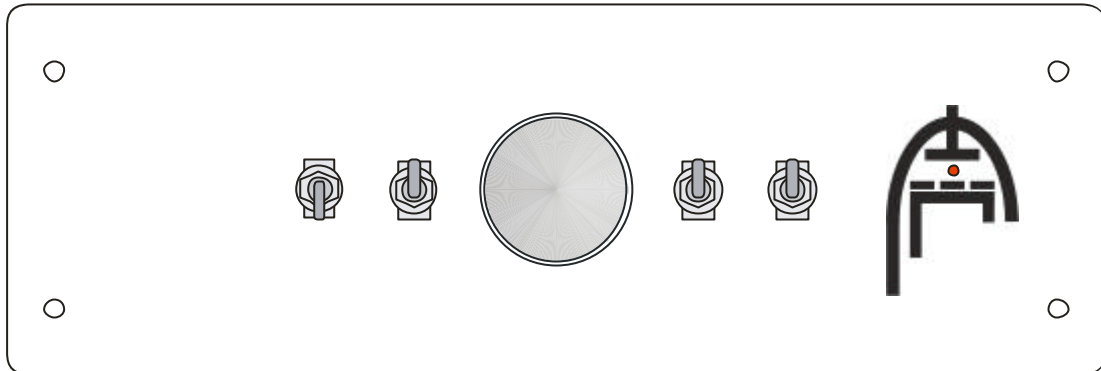
Before switching your Audion on for the first time, make sure **ALL** volume controls are turned completely down on both the Quattro and your power amplifier. Once the units have been switched on and allowed to warm up for a few minutes, gradually bring the volume control on the power amplifier to maximum. Once at maximum the volume on the Quattro can be increased to your personal listening taste. When using the stepped attenuators it is normal to feel the click of the volume control. Stepped attenuators provide a much greater control and more precise balancing on the mono-block pairs.

### Using your Audion

Congratulations you are now ready to switch your Audion on. On the rear panel locate the on/off button. Push the button upwards to position 1, on the 2 box version. On the 4 box locate the on/off button on the rear of the power supply unit. This has now turned your Audion on. You will notice if everything has been installed correctly that your valves/tubes are starting to glow, your Audion is now “Warming up”. We recommend that an initial few minutes is allowed for the warm up process to take place. A valve/tube will change its audio characteristics slightly once it has reached its nominal operating temperature.

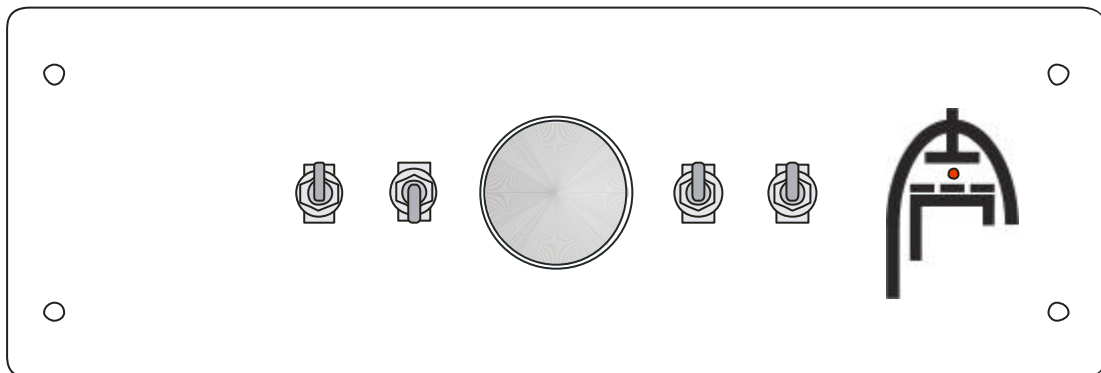
Select your sound source, CD, record, etc. and play. Once your source has started playing adjust the volume control to your required level.

On the Standard models, the four switches correspond to the five inputs on the rear and can be switched in and out accordingly.

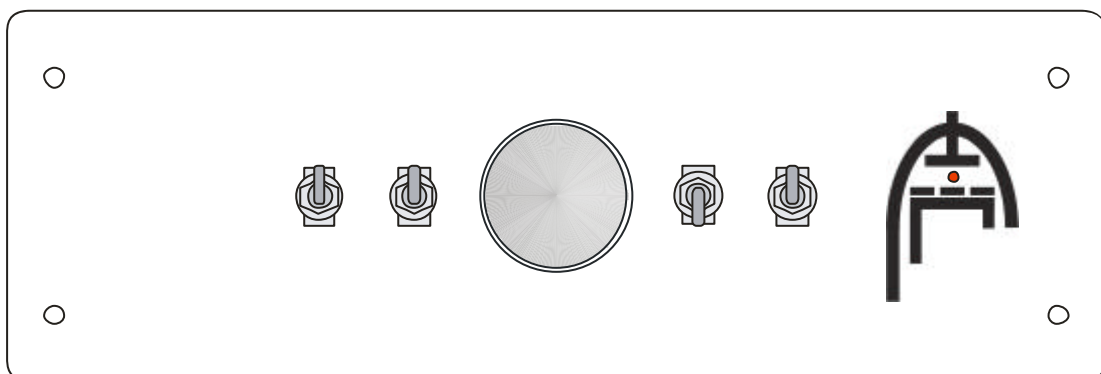


Audion Quattro pre-Amplifier Front Panel

Switch 1 Down, 2, 3 & 4 Up = Input 1. Moving Coil Cartridge Phono

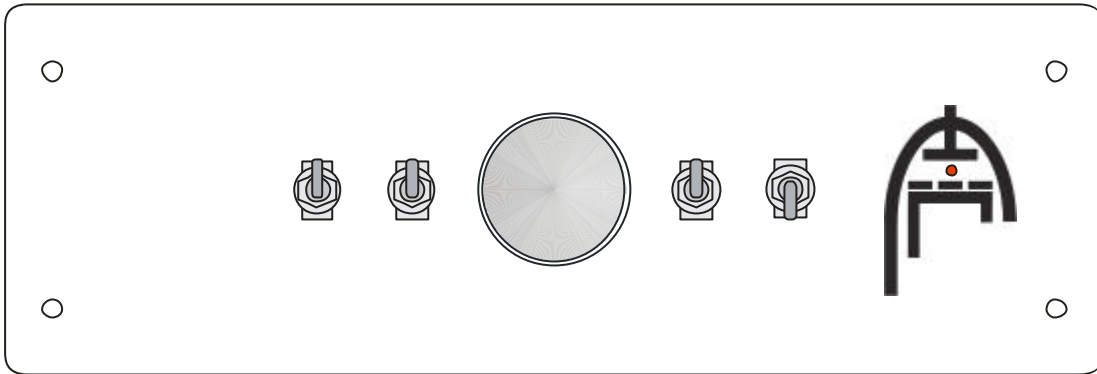


Switch 2 Down, 1,3 &4 Up = Input 2.. Line Level Input

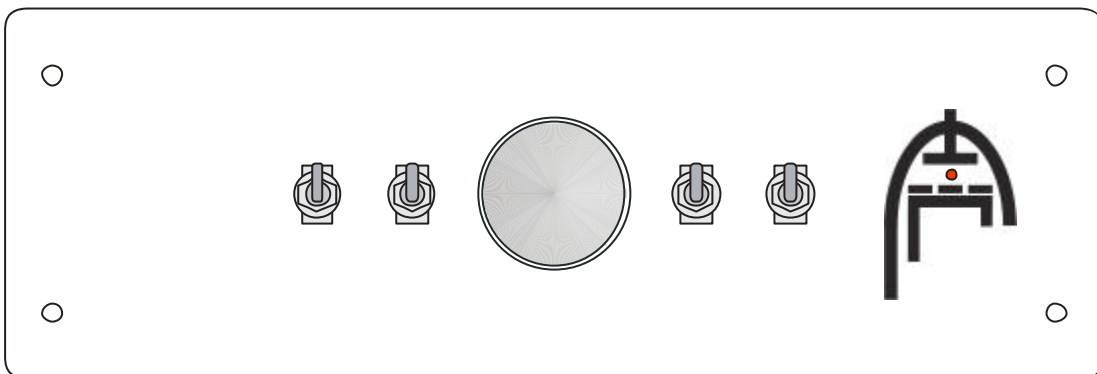


Switch 3 Down, 1,2 & 4 Up = Input 3.. Line Level Input

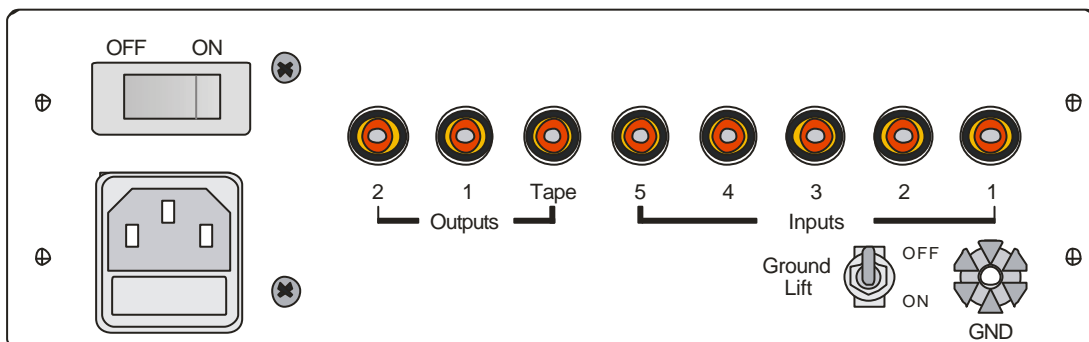




Switch 4 Down, 1,2 & 3 Up = Input 4.. Line Level Input



Switch 1,2, 3 & 4 Up = Input 5.. Line Level Input



Outputs 1 and 2 are the same for anything that has been selected. The tape output is an un-attenuated output corresponding to whatever is selected.

In general use your Audion should give many years of trouble free use. The anodised aluminium chassis should be wiped regularly with a clean lint free cloth to remove dust. Under no circumstances should solvent or solvent based products be used on or near your Audion.

Please remember to fill in and return your warranty registration form to us at the address at the end of this manual.

Enjoy your Audion.

## Technical Specifications

### Quattro (2 box)

Sensitivity Ref – 0dbV	0.4mV MC Phono	Phase - Correct	
Distortion @ 1V	<0.015% No Feedback	Noise (CCIR)	<80 db
Frequency Response:	20 – 205KHz ±1 db RIAA	Signal to Noise:	>70 db
Inputs:	1 MC Phono, 4 Line	Outputs:	2 Main Out, 1 x tape
Consumption:	12 Watts	Tubes:	4 x 6922 or 4 x E88CC
Impedance:	47K / 254 Ohms		

### Quattro (4 box) (2 x Pre-amp + 2 x Power supply)

Sensitivity Ref – 0dbV	0.4mV MC Phono	Phase - Correct	
Distortion @ 1V	<0.010% No Feedback	Noise (CCIR)	<80 db
Frequency Response:	20 – 205KHz ±1 db RIAA	Signal to Noise:	>70 db
Inputs:	1 MC Phono, 4 Line	Outputs:	2 Main Out, 1 x tape
Consumption:	12 Watts	Tubes:	4 x 6922 or 4 x E88CC
Impedance:	47K / 254 Ohms		

We recommend for this high end product,

Audion Electron Interconnect cables  
Audion Electron Power Cords

Audion International  
Chez Reynaud, Le Haut Mont  
17360, La Genetouze, France  
[www.audion.co.uk](http://www.audion.co.uk)  
Revision 1.3 Quattro