professional power amplifier

models AX-1121TS / AX1240TS / AX 1400TS

user manual

Introduction

We are pleased that you decided to use an axxent power amplifier. Please read the following instruction to obtain the maximum results.

Important Functions and Features

axxent amplifiers with the „T“ or “TS” in the model designation feature fully isolated constant voltage outputs for loudspeakers with built-in constant voltage transformers. Models AX1121TS, AX1240TS and AX1400TS also have low impedance outputs to drive 4 Ohm or 8 Ohm loudspeakers.

Model AX1121TS has 120 watt power, AX1240TS 240 w and AX1400TS 400 w of r.m.s. power. This the total power to the constant voltage outputs with either 50 v, 70 v or 100 v or low impedance. All amplifiers drive loudspeakers with load impedances as low as 4 ohms.

The following pages will guide you through the use of controls on the front side and of the connections on the rear side of the amplifier.

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Front Panel Controls

All control elements and connectors of the three models AX1121TS, AX1240TS and AX1400TS are identical. What you see on the front panel is solely the gain control or commonly “volume control”.

Three led’s indicate “power on”, signal presence and peak level. The red peak level led indicates the maximum tolerable audio input level.

For safety reasons you may remove the knob and insert the blind cover instead.

Intentionally we have kept the number of control elements on the front side to an absolute minimum in order to avoid faulty operations and to maintain a straight forward design for ease of use.

Amplifier controls and connectors on the rear

At the far left you see a large power switch and below an IEC connector with fuse holder. Intentionally we do not use an integral power cable so that the amplifier may be removed from a 19" rack easily. The IEC power cable is always included in the amplifier box, when shipped.

If you should ever encounter an amplifier problem, i.e. you have switched it on and the green power led does not light, its fuse may be defective. A defective fuse should be changed by a qualified service technician. Power fuse values are as follows: AX1121T and AX1240T slow blow 4 A; AX1400T slow blow 6.3 A. Fuse type 5 mm by 20 mm.

Output Connectors, constant voltage

To the right of the power switch you can see the green Eurobloc or Phoenix connector. This connector is used for the constant voltage outputs and indicated 50 v, 70 v, and 100 v. Standard constant voltage in Europe is 100 v.

The Eurobloc is a solderless connector that uses screw terminals to connect wires. Once the wires are installed, the entire assembly is plugged into a matching socket in the electronic device. Euroblocs are more convenient than terminal strips because they may easily be disconnected if the need arises.

Output connectors, low Impedance

Above the 3 pin xlr input connectors are the dual binding posts that are used for the low impedance output of the amplifier. These binding posts are touch proofed according to international safety regulations.

You may operate the amplifiers with four ohm load and full power at all times. Please note however, that in this case you may not use the constant voltage outputs. It is important to know that combined power of simultaneous use of both constant voltage and low impedance outputs may not be higher than the r.m.s power of the amplifier. For example, if you use an 8 ohm speaker at the low impedance output connector, you will take approximately two thirds of the total available power and the other third then may be used to drive 100 v loudspeaker lines.

Input connectors

The amplifiers use fully balanced inputs for minimum interference. The input is a three pin female xlr connector and the “send” xlr connector is meant to route the input signal to additional amplifiers. All standard microphone cables may be used to connect the amplifier. Inputs are electronically balanced and have a nominal impedance of 20 kohms.

Amplifier cooling

Amplifier models AX1121TS, AX1240TS and AX-1400TS use convection cooling. Heat transfer is by the rear heat sink. Because no fan is being used to transfer heat, there is no operating noise at all.

CE Declaration of Conformity
We herewith declare in sole responsibility that the products AX1121T, AX1240T and AX1400T are in conformity of EMC regulation 89-336-EEC and fullfills the requirements of the uniform product standard EN55013 (emission) and EN55020 (product immunity).