



user manual

Introduction

We are pleased you have decided to purchase this axxent high power amplifier. Please read the following manual carefully in order to obtain best results.

Important features

The axxent amplifier models AX2150S, AX2300i and AX2500i are intended for loudspeakers with impedances of 4 ohms or higher. We do not recommend impedances of less than 4 ohms.

Model AX2150S offers an output power of 2 x 150 W_{rms} at 4 ohms. In addition this amplifier may be operated in bridge modus, resulting in an output power of 1 x 300 W_{rms} at 8 ohms. The use of a switch mode power supply results in light weight (facilitating transportation) and keeps the amp cool.

Model AX2300i generates 2 x 300 W_{rms} at 4 ohms, while model AX2500i delivers 2 x 500 W_{rms} at 4 ohms. Both models are equipped with a low stray toroidal transformer in the power supply circuitry.

On the following pages please find important operational hints like the controls and knobs on the front- and the connectors on the rear side of the amplifier.

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Controls on the front side

Knobs: The two „**VOLUME**“ knobs are used for setting the output level. For safety reasons in fixed installations the potentiometer knobs on the front of the unit are detachable and may be replaced with the included blind covers.

LED indicators: Several LEDs indicate the operational condition: **ON** is lit when the unit is ready. In case this LED is not lit after switching on the amplifier, you either lack mains or the fuse is faulty. In the latter case replace the fuse. If this does not help either, please contact your dealer or ship directly to the manufacturer axxent e.K. Only qualified personnel may open the case of the amplifier.

SIGNAL these green LEDs confirm the presence of an audio signal in a safe level range.

BRIDGE (AX2150S) yellow LED confirms bridge mode operation.

PEAK this red LED's is lit at the onset of the limiter function, which avoids excessive signal peaks. The nominal input sensitivity of the amplifier is 675 mV. Higher input levels may be attenuated with the „**VOLUME**“ potentiometers on the front.

PROTECT with red LEDs indicates the onset of a protection circuit. In such cases the amplifier is muted. The reason for this may be any kind of overload. The period of time the amplifier is muted normally is very short (≤ 10 seconds). Thereafter the amplifier is ready for use again. In case due to some reason the amplifier is overheated, this mute period may take longer until the unit has cooled down again.

On the front side of the unit we have kept the number of controls to a bare minimum in order to prevent possible operator errors. For the same reason the mains on/off switch is located on the rear side.





Controls and connectors on the rear side

When looking at the rear of the models **AX2300i** and **AX2500i** you immediately may note the vertical slits. Behind those the heat sinks are located which must be kept free at any time in order to let the cooling air stream front to rear flow without restrictions. On the model **AX2150S** you will note a grid covering the cooling fan. This grid also must be kept free any time to let the air stream flow freely and unhindered. With all three models the fan rotation is kept to a minimum to always ensure very low noise in operational mode, especially when used in calm surroundings.

The mains switch on the models **AX2300i** and **AX2500i** is located centrally and on the left side on model **AX2150S**. Close by you will find the IEC-mains plug with the fuse holder. Model **AX2150S** uses a 4 A fuse, while in the model **AX2300i** is equipped with a 6,3 A and the model **AX2500i** with a 10 A fuse. All fuses are 5 x 20 mm long, with slow blow characteristic. When the on/off LED indicator is not lit, a faulty fuse may be the reason. In this case please have the fuse changed by qualified personnel. In case the fuse is blown again, please contact your dealer, a qualified service workshop or ship the unit to the manufacturer axxent e.K.

Next to the mains plug and switch (models **AX2300i** & **AX2500i**) you will find the insulated output contacts. On model **AX2150S** you will see the red/black touch proof binding posts. The polarity of the posts is marked + and -. In addition with model **AX2150S** you will find the marks for mono bridge mode operation: bridge output + is the red pole for output 1 and - the black pole for output 2. Please note that on all loudspeaker outputs a high and dangerous voltage may be present - that's why you will see the warning sign for hazardous shocks.

On the next page you will find the information and instructions for the in- and output connectors.



Input connectors

All three models use balanced 3pin XLR input connectors. In addition parallel outputs (**SEND**) are provided for looping through the input signal to additional amplifiers. The polarity is in line with international standards: **Pin 1** is ground/shield, **Pin 2** is HOT (or plus), **PIN3** is COLD, (or minus).



Special features on model AX2150S

As mentioned before, this models may also be used in mono bridge mode in order to gain double the power (at twice the impedance): 2 x 300 W at 8 ohms. Before arranging for bridge mode you must disconnect the unit from mains. Then press the „**BRIDGE**“ switch. The input signal is connected to „**INPUT 1**“. Output is on **OUTPUT 1** the red post for **plus** and on **OUTPUT 2** the black post for **minus**. The level is controlled on potentiometer for channel 1.



A further special on model **AX2150S** is a switch for a high pass filter in order to reduce or suppress low frequency interference signals like rumble and subsonic components which might be hazardous to the loudspeakers. The cut off frequency of this „rumble filter“ is 35 Hz. The switch is labelled **SUBS FILTER**.

CONFIGURATION SWITCHES (models AX2300i and AX2500i)

A 9 pin DIP switch allows the setting of the various configurations of the amplifier:

		Down	Up
Limiter 2, Channel 2	Switch no. 1	ON	or OFF
Limiter 1, Channel 1	Switch no. 8	ON	or OFF
Subsonic Filter Channel 1	Switch no. 6	OFF	or ON
Subsonic Filter Frequency Channel 1	Switch no. 7	40 Hz	or 80 Hz
Subsonic Filter Channel 2	Switch no. 3	OFF	or ON
Subsonic Filter Frequency Channel 2	Switch no. 2	40 Hz	or 80 Hz
Input Mode	Switch no. 4+5	Parallel	or Stereo





For further question regarding the operation of the amplifier please do not hesitate to contact the manufacturer axxent e.K.:
mail@axxent.de.

We hope your axxent amplifier will become a long time reliable compagnon to you.

DECLARATION OF CONFORMITY

PRODUCT: LOW FREQUENCY POWER AMPLIFIER
MODEL: AXXENT AX2150S, AX2300I, AX2500I AUDIO AMPLIFIER

THE PRODUCT IS DESIGNED FOR AMPLIFYING ACOUSTIC FREQUENCY SIGNAL MAINLY USED FOR PUBLIC ADDRESS SYSTEMS.

PRODUCER OF ELECTRONIC DEVICES IN SUBJECT THIS DECLARATION OF CONFORMITY HEREBY DECLARES THAT EQUIPMENT SPECIFIED ABOVE IS IN COMPLIANCE WITH MENTIONED DIRECTIVES AND STANDARDS AND CONFORMS TO THE REQUIREMENTS OF THE HARMONIZED PRODUCT STANDARDS.

USED DIRECTIVES AND STANDARDS:

EMC REGULATION 2004/108/EG
AND ESPECIALLY THEREFORE COMPLIES WITH EN61000-6-1 2007,
ELECTRO-MAGNETIC SUSCEPTIBILITY FOR PRIVATE USE, COMMERCIAL USE AND LIGHT INDUSTRIAL APPLICATIONS ACCORDING TO TABLE 2.
LOW VOLTAGE DIRECTIVE 2006/95/EG OF DECEMBER 12, 2006 REGARDING ELECTRICAL EQUIPMENT.

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STAMP AND SIGNATURE: