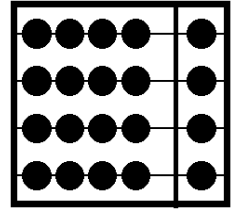


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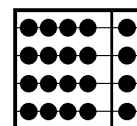
Operating manual

ABACUS® Ampino

Mini stereo power amplifier and stereo linear amplifier



ABACUS AMPINO

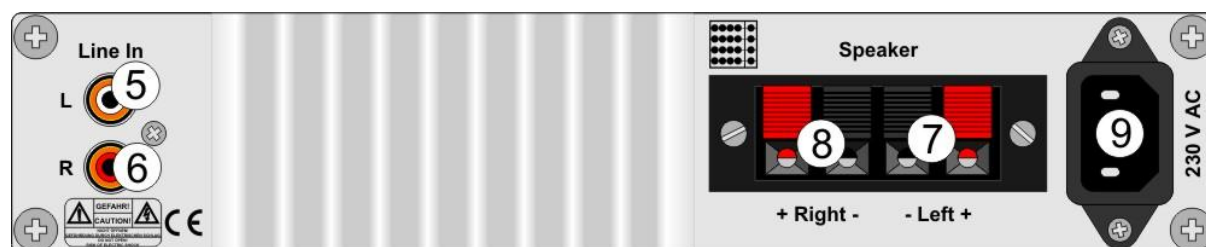


Operating manual ABACUS® Ampino Solid state stereo power amplifier and stereo linear amplifier



Front panel:

- (1) Main switch
- (2) Volume control
- (3) Operating control (blue)
- (4) Loudspeaker protection (red) left and right



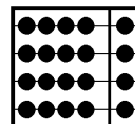
Rückwand:

- (5) Cinch input left
- (6) Cinch input right
- (7) Loudspeaker left (+ red, - black)
- (8) Loudspeaker right (+ red, - black)
- (9) IEC plug line 230V AC (not grounded!)

ABACUS® amplifiers guide loudspeakers like on a piston rod. Loudspeakers will gleam in new splendor. A very special circuit design combines the advantages of tube amplifiers with the modernity of solid state technology.

ABACUS electronics hope you will enjoy your Rieder AMPINO!

Important notice: Follow the steps in this manual when you put the **ABACUS®** amplifier into operation!



1. Unpacking

Unpack your **ABACUS**[®] amplifier carefully and keep the packing for possible further shipping. Please report any damages to your **ABACUS** dealer immediately.

2. Installation

Before starting operation of the **ABACUS**[®] Rieder 60-120B turn the main switch *ON* (1) into off-position (left) and the volume knob (2) to the minimum position (also left). The heat sink should be kept free for a sufficient circulation of air.

3. Connection to a pre amplifier or other line source (5), (6)

The **ABACUS**[®] power amplifier can be connected to variable outputs of receivers, amplifiers, preamplifiers, CD-players etc.. In principle the connection to preamp, headphone or loudspeaker outputs is equivalent. The necessary cables and adapters can be purchased from **ABACUS** or your **ABACUS** dealer. The Rieder AMPINO acts as a linear integrated amp and can also be used directly with a line source.

4. Connection of the loudspeakers (7), (8)

The loudspeakers are connected with open cable ends. Push the terminals to open them. Thick cables have to be thinned before.

5. Connection to preamp or line source

- ◆ The Rieder AMPINO has an excellent preamplifier with a precise volume control (ALPS) on board.
- ◆ Because of this the direct connection to a line source like a CD-player, receiver, tape, computer, TV-set etc. is possible without additional preamp. (This is often even better)

Connect the outputs of the source according to the left-right-label of the cinch connectors. Until the first turning of the main switch (1) you should again make sure, that the volume (2) is turned to the left.

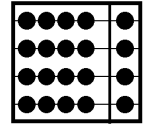
6. Start of operation

Please follow these steps:

- ◆ Connect a line source like written above, e.g. CD directly or with a (pre)amp (5), (6) and start the program.
- ◆ Connect the IEC plug (9) to line (230V AC).
- ◆ Switch on the amplifier (1). The *ON*-LED (3) should glow now.
- ◆ If the source is connected directly to the **ABACUS**[®] Rieder AMPINO simply choose the volume with the knob (2).
- ◆ If you operate the **ABACUS**[®] amplifier with a (pre)amp turn its volume knob (2) to app. the top ("12 o'clock position"). This is then the basic volume and you can choose the actual volume with the preamp.

7. Loudspeaker protection

The loudspeaker protection circuit of the **ABACUS**[®] Rieder AMPINO can protect both, the amp and the loudspeakers, independent of their power rating. When overloaded the amp is switched to mute and the red *LSP* LED (4) of that channel glows. To reset switch the amp off with the line switch (1), wait a few seconds until



the red LED is off again and switch the amp back on. It is recommended to reduce the volume, particularly if the LSP is activated several times.

Warning: We advise against extreme equalizer settings in the source components. And please keep in mind: when loudspeakers sound distorted or when the heat sink gets very hot, this means danger for amplifier and loudspeaker.

8. Accesory:

You can purchase various items from **ABACUS electronics**:

- ◆ Liner preamplifiers with “Linetreiber”-output, 6 inputs, infrared remote control
- ◆ “Linetreiber” with or without volume control
- ◆ Cables and adapters for line and loudspeaker connection in various lengths

9. Specifications:

Mains Voltage: 230V AC

Power: total RMS power app. 50W.

Dimensions:

Including knobs and heat sink: width x depth x height app. 250 x 210 x 54mm.

Weight: 2.17kg.

Nordenham, August 2008

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