

## Manual for **BRINKMANN** Stereo Power Amplifiers

### Design :

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### Legal Regulation of the European Community :

This amplifiers had been designed and testet according to the guidelines IEC55013 and IEC55020, and meet the safety requirements IEC60065.

### Informations for Safety :

The Stereo power amplifiers is only to be used in dry rooms with an average temperature and is only allowed for 110-120V, 50-60Hz alternating current unless otherwise stated on the amplifiers.

Please connect or disconnect only when the amplifier is not connected to the mains.

Always disconnect the amplifier from the mains when not in use for a longer period of time (during holidays etc.) !

**ATTENTION ! The loudspeaker-outputs are not short curcuit proof when the amplifier is switched on !**

Never lift or remove the glass plate while the amplifier is connected to the mains !

Attention, dangerous voltages !

Repairs, modifications etc. are only to be carried out by the company **BRINKMANN** itself or by specially authorized workshops !

Always keep the amplifier away from wet, heat and open fire. Don't expose it to the blazing sun ! Never place receptacles with fluids on the amplifier !

The amplifier is not equipped with a temperature limiter ; to guarantee a flawless function please make sure to have a free space for air circulation measuring 30cm above and 10cm on each side. The heatsinks are never to be covered !

The amplifier can be cleaned with a dry cloth or a brush, wet cleaning can cause damages, always disconnect from the mains during cleaning !

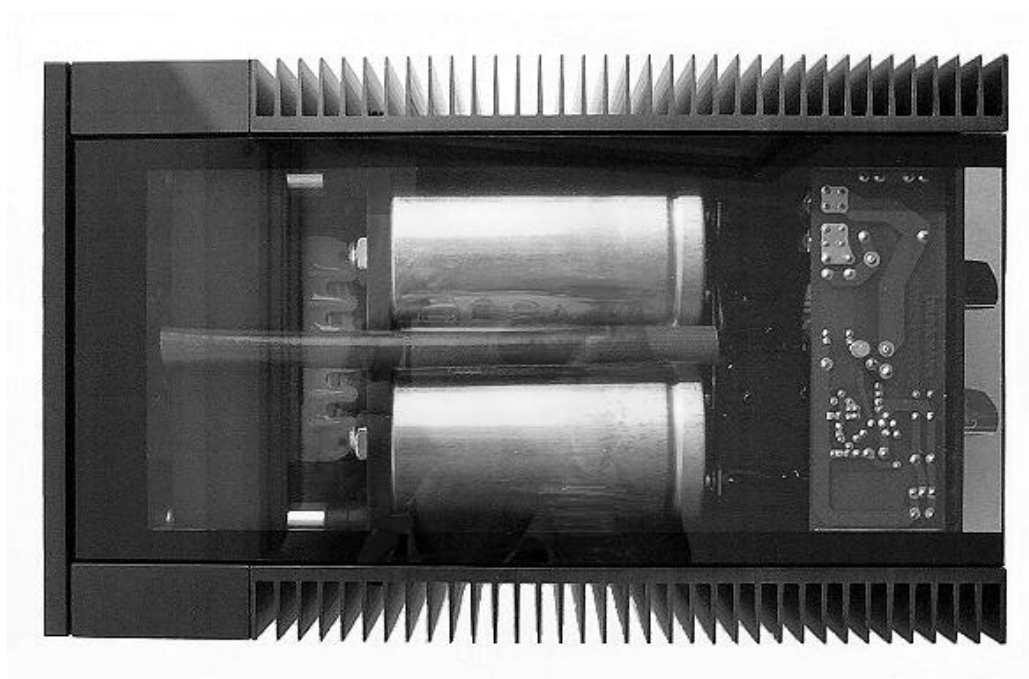
The power amplifier must be set up on the granite base and for thermal reasons must have direct contact to the stone surface ! Beware of overheating !

### **Technical Information:**

Two cynch connectors are available as inputs for the preamp. A toggle switch between the inputs allows the amp being switched either in usual stereo or bridged mono use.

The extremely pulse-proof powersupply, built around a 500 Watts transformer, which allow for shorttime power in excess of 1500 Watts, each amp containing four large Roederstein condensers, the very compact construction with the shortest possible leads, plus four high power output-transistors per channel made by Sanken, which are directly connected to the output-terminals through "Diamond" topology output-stages without negative feedback, allow for 2 MHz fast outputs of power for an uncompromised musical impact and sonically balanced flow of music.

Although there is no feedback used, the output stages feature low output-resistance at all phase degrees and frequencies.



The output stages are driven via gain-amplifiers, that match our preamplifiers in circuitry of the line stage and in technical aspects.

## **Setup :**

The Stereo power amplifier must be set up on the granite bases to prevent overheating !

First all needed inputs should be plugged in and the power amplifier connected to the loudspeakers before being connected to the mains. Essentially be careful not to create a short circuit, because a short circuit can lead to damages in the power amplifier.

The mains-plug has a red mark on one side, the terminal at this side should be connected to the hot pole of the mains to get the best sound quality.

→ Please avoid the power amplifier being plugged into the same multiple plug as the preamplifier, a wall socket with a separate lead to the fuse box is the best option, if this is not possible, the power amplifier should have a separate multiple plug for it's own.

For symmetrical use (toggle switch down) a balanced signal is needed on both (RCA)-Cynch sockets, for bridged use (toggle switch up) the left input is the input for both channels, the right input is not used. In both cases the output is on the red loudspeaker terminals.

The knobs of the loudspeaker terminals can be removed completely and the connection of 4mm-"banana"-plugs is possible.

About two minutes after power on, the loudspeakers are switched through, now the amp is no longer short circuit proof !

## **some technical details :**

|                                     |                  |                       |
|-------------------------------------|------------------|-----------------------|
| power output both channels driven : | load 4 / 8 Ohms  | 120 / 80 W            |
| minimum load :                      |                  | 2 Ohms                |
| power output bridged :              | load 8 Ohms      | 240 W                 |
| damping factor                      | load 8 Ohms      | 80                    |
| distortion :                        | half power       | 0.1 %                 |
| input sensitivity and resistance :  | unbalanced input | 775mV / 1kOhm         |
| input sensitivity and resistance :  | balanced use     | +/- 390mV / +/- 1kOhm |
| power consumption full power :      | load 8 Ohms      | 380 Watts             |

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