

BINGO

Operating Instructions

CONTENTS:

1. *INTRODUCTION*
2. *PRECAUTIONARY MEASURES*
3. *OPERATING ELEMENTS*
4. *SUMMARY OF OPERATIONS*
5. *TECHNICAL DATA*

1. INTRODUCTION

Welcome to *AER*. Thank you for purchasing the **BINGO**.

You have chosen a professional, compact and powerful amplifier that was specially developed to amplify acoustic instruments.

Two channels make it possible to operate a microphone and an instrument independently of each other. The dynamically controlled power amplifier and the broad-spectrum loudspeaker system guarantee distortion-free reproduction even at high volumes.

To obtain maximum enjoyment from your amplifier please read this manual carefully before using your **BINGO**.

2. PRECAUTIONARY MEASURES

When you use your **BINGO**, always take basic safety precautions to reduce to a minimum the risk of injury by fire or by electric shock.

- ◆ Read all the directions in these operating instructions and make sure that you understand them.
- ◆ Pay attention to all warnings, instructions and supplementary text written on the **BINGO**.
- ◆ Always use a grounded mains connection with the appropriate supply voltage. If you are uncertain whether the connection is grounded, have a qualified expert check it.
- ◆ Do not let your **BINGO** come into contact with water and never touch the amplifier if you have wet hands.
- ◆ Always operate your **BINGO** in a place where no one can trip over the cables causing injury to themselves or damage to the cables.
- ◆ Do not operate your **BINGO** near devices with strong electromagnetic fields such as large mains transformers, generators, neon lights etc. Do not lay the signal cable parallel to power lines.
- ◆ Do insure that your **BINGO** is switched off before plugging in the power cable to the mains.
- ◆ Before cleaning your **BINGO**, unplug it from the mains supply. Use a damp cloth to clean it. Do not use cleaning agents, and be careful that no liquid finds its way into the amp.
- ◆ There are no parts within your **BINGO** that can be serviced by the user. Refer all repairs and servicing to an agent authorised by *AER*.
Any unauthorised repair or servicing will void the two year warranty!
- ◆ Keep these operating instructions in a safe place.

3. OPERATING ELEMENTS

Front (from left to right):

Channel 1:

Input	socket for a 6.3 mm jack plug
High/Low	switch to adjust input sensitivity High impedance only instruments with a piezoelectric pick-up, Low for instruments with active preamplifiers and magnetic sound pick-ups
Clip	overload indicator
Gain	input level control
Colour	mid-range contour filter
Bass	tone control for bass
Middle	tone control for mid-range
Treble	tone control for treble

Channel 2:

Input Line/Mic	XLR combination with a socket for a 6.3 mm jack plug and XLR male socket switch to adjust input sensitivity Line: sources with line level, instruments with active preamplifiers and magnetic sound pick-ups, Mic: symmetrical microphone input with 30 V phantom source
Clip	overload indicator
Gain	input level control
Bass	tone control for bass
Treble	tone control for treble
Eff. Pan	panorama control to distribute the effects between the channels
Select	switch for two effect programmes (reverberation, reverberation/delay)
Return	level control for the internal effect
Power	power indicator lamp
Master	level control for the overall volume

Rear (from left to right):

Phones	headphone output
Tuner	output for a tuner after the master control
Line-out	preamplifier output after the master control
DI-out	XLR output before the master control
Send	output for an external effect device
Return	input for an external effect device or another signal source, for example CD player
F/S	connection for a double foot switch with which the effects can be switched on and off (<i>See 4. Summary of Operations</i>).
Power	combined mains switch with a mains socket and a fuse holder (1 A slowblow)

4. SUMMARY OF OPERATIONS

◆ Connecting and starting-up:

Check to ensure that the mains voltage at your location corresponds to what is permitted for operating the **BINGO**. You will find the necessary information on the rear side under „**Dest.**“ (country of destination) and „**AC-voltage**“. Before switching the amp on, the „**Master**“ and „**Return**“ controls should be turned to the **zero position** (as far left as they will go) and **all other controls to middle position**. Then make all necessary cable connections (mains, instrument and/or microphone). Now you can switch on your **BINGO** with the power switch on the rear of the amp. The green power indicator shows that the amp is operational.

◆ Level control:

You can use the „**High/Low**“ switch and the „**Gain**“ control to adjust the various pick-up systems and signal sources to **BINGO**. The clip indicator shows that the input signal is

too high. You should then reduce the gain control or volume control on your guitar or other source to ensure distortion-free reproduction. Then set the desired overall volume with the „**Master**“ control.

◆ **Tone controls:**

The three and two band tone controls of your **BINGO** are designed to fulfil the special requirements of acoustic instruments and the general demands of other sources. The „**Colour**“ switch in **Channel 1** activates a mid-cut treble-boost filter which is particularly appropriate for fingerstyle techniques.

◆ **Effects:**

The **BINGO** has an integrated (internal) digital effect permitting you to choose between a reverberation and a delay effect with the „**Select**“ switch. The „**Return**“ switch determines the intensity of the effect (as far to the left as possible means no effect). Furthermore, a supplementary effect device can be connected (external effect). For this purpose, use the sockets at the rear of **BINGO** „**Send**“ and „**Return**“ (send to the input, return from the output of the external effect). The intensity will then be set by the external effect device.

Using the „**Effect-Pan**“ control, you can mix continuously variable effect portions into the channels. The following values hold for the corresponding definite positions:

- | | |
|--|--|
| turned completely to the left: | internal effect on channel 1
external effect on channel 2 |
| middle position: | internal effect on channel 1 and channel 2
external effect on channel 1 and channel 2 |
| turned completely to the right: | internal effect on channel 2
external effect on channel 1 |

A standard **double foot switch** can be connected to the „**Footswitch**“ socket on the rear of the amp with a stereo cable. This switch can be used to turn the internal and external effects on and off.

Further outputs:

- | | |
|-----------------|---|
| DI-out | The composite signal after tone control but without effect and before master control is on the XLR socket. (Appropriate to connect the BINGO to a sound system.) |
| Tuner | A tuner can be connected to this output, and need not be switched between instrument and amplifier, as is often the case. This precludes any effect on the sound. |
| Line out | The composite signal after tone control, with effect and after master control is connected here. (This output can be used for tape recordings). |

O.K.? We hope you enjoy your **BINGO**!

5. TECHNICAL DATA

Inputs:	Ch1:	Line: unbalanced., 2.2 MEG High/Low: -10 dBV
	Ch2:	Line: unbalanced., 1MEG Mic: balanced., 600 Ohm
Outputs:	Eff.Return:	-10dBV/10k
	Tuner:	-10dBV
	Line:	0dBV
	DI:	-20dBV
	Send:	-10dbV
Foot switch	Tip:	built in effect
	Ring:	external effect
	Sleeve:	ground
EQ:	Ch1:	Bass: +- 8 dB/ 100 Hz Middle: +- 3 dB/ 550 Hz Treble: +- 11 dB/ 10 kHz
	Ch2:	Bass: +- 8 dB/ 100 Hz Treble: +- 11 dB/ 10 kHz

Analog Signal Processor: Limiter, Subsonic Filter and Enhancer

Effect: Digital Reverb / Delay, two presets

Power Amp: Powerconsumption: 220-240 V / 50-60Hz / 70 VA
(110V / 50-60Hz)

Rating: 60 Watt / 4 ohm rms

Mains Fuse: 1 A slow

Speaker: 8' twin-cone speaker-system
(96 dB 1w/1m, freq. range 60Hz-18kHz)

Cabinet: 0.59' (15 mm) birch plywood

Dimension: 10.24' (260 mm) high

13.00' (330 mm) wide

9.06' (230 mm) deep

Finish: waterbased acrylic, black spatter finish

Weight: 18.74 (8.5 kg)

▶ 0dB/V ~ 1V

▶ specifications and appearance subject to change without notice

aer music gmbh
Haberstrasse 46
D-42551 Velbert

www.aer-music.de

