

# GBE series 2

BASS AMPLIFICATION

## OWNER'S MANUAL

This GENZ BENZ Bass amp has been designed to perform precisely with our popular bass enclosures, delivering powerful, articulate bass reproduction.

The Series 2 rack mount amp combines proven classic circuitry with state-of-the-art integrated electronic power modules to deliver the sound quality and features desired by today's sophisticated bass players.

### **FEATURES:**

250 Watts RMS @ 8 ohms / 375 Watts RMS @ 4 ohms, XLR studio quality direct out with ground lift Passive/Active Inputs with Mute Switch, Input LED s, 4 bands of Equalization, front panel effects loop, Internal Clip/Limit feature, thermal protection, forced air fan cooling, heavy 16 gauge 2 space construction.

### **OPERATION:**

XLR Direct Out-Studio quality balanced line level send with a rear-mounted ground lift switch.

Passive/Active Input - Each input is internally set for either high impedance passive basses or pie-amp driven active basses.

Input Mute Switch- This feature is provided to cut the input signal to the pie-amp and direct output. This is a great feature to use when switching inputs to different instruments.

Input Gain Stage - Allows you to set the input sensitivity to the pie-amp from the output of the instrument.

LED's are provided to visually sent the input stage. The RED LED should light only with the hardest notes. Equalization - The active 4 band EQ section used in the Series 2 combo is comprised of 4 independently tuned asymmetrical band pass filters, combined through a unique current summing network to create a smooth, musical sounding equalization system. Freq: Low 80Hz, Low-Mid 500Hz, Mid-high 1K Hz, High 4K HZ.

Effects Loop - Usable for a wide variety of effects. Send (output) and Return(input) are nominal -10db level. The send jack may be used as an auxiliary output to drive a tuner, direct box, etc. Output is pre EQ and Master volume.

Master Volume - This post equalization, post effects volume control adjusts the overall volume of the amplifier.

Temp LED- The temp LED indicates the status of the internal thermal protection circuit. The power amplifier has been designed with a thermal monitoring system to protect the amplifier against overheating due to poor air circulation over the heatsink on the rear of the unit, excessive ambient temperature or short circuited

loads. This LED will flash for a brief time at turn-on and turn-off, indication that the protection circuits are operating.

Clip/Limit LED- This indicates the output status of the power amp. A limit switch is located on the back of the unit. In the DEFEAT position, this LED indicates clipping of the main amplifier. This shows true clipping which may occur before you will be able to hear it. Excessive clipping can damage loudspeakers!!

With the limiter switch in the ACTIVE position this LED indicates operation of the amplifiers limiters to prevent clipping. The limiters used are a soft-clip device and are not intended to prevent clipping (and unwanted signal pumping), but intended to extend headroom of the amplifiers by approximately 6db, while reducing the audible effects of amplifier clipping.

Power LED- This indicates that the amplifier is on and the low voltage regulated power supplies are active.

## **REAR PANEL**

Power Inlet socket-This amplifier is supplied with a detachable power cord. When connecting this amplifier to an AC outlet, always plug the cord into the power inlet socket first before plugging the unit into a power source.

Speaker Outputs-2 standard 1/4" jacks are wired for parallel outputs and 1 Neutrik 4 pin connector are supplied as standard. Minimum impedance is 4 ohms.

Limit Switch-This switch turns the internal limiter on and off. Ground Lift Switch- This switch lifts the ground on the XLR Direct Out.

Heatsink- This extrusion along with an internal cooling fan provides ample dissipation of heat from the output devices. You may feel air coming out from under the heatsink. An air-flow chimney has been designed into the chassis to allow for air movement across and up the heat sink. *It is very important not to restrict the air-flow to the side mounted fan.*

Fuse Holder- Always replace with same type of fuse.

## **ATTENTION:**

- Always make sure that you are using a safe ground receptacle for the specific operation for the voltage rated, labeled on the rear of the amplifier. All US models are rated at 120 V AC 60Hz.
- Always plug the AC power cord into the rear amp receptacle before plugging the cord into a power supply.
- Always use caution against possible hearing loss when operating this unit.

## **WARRANTY:**

The electronics section of the Series 2 amplifier are warrantied to be free from defects in materials and workmanship for 2 years. Items not covered are damage from shipping, miss-use, accident, modification, abuse or neglect. See your warranty card for details. All warranty service must be performed by an authorized Genz Benz repair center.