

GENZ·BENZ

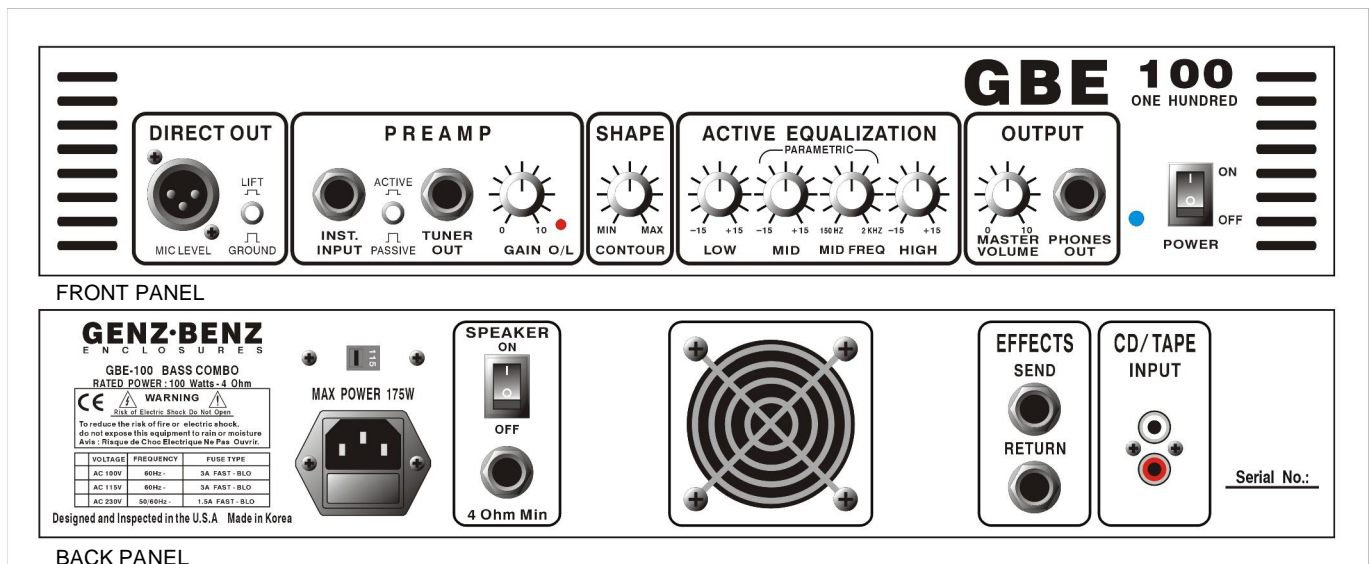
GBE 100

ONE HUNDRED

B A S S C O M B O S

MODELS:
GBE 100-115T
GBE 100-210T

O W N E R ' S M A N U A L



PRODUCT DESCRIPTION – The **GBE-100™** series are configured as single channel, 100 watt bass guitar combos. Two models are available, a 1 x 15" and tweeter combination and a 2 x 10" and tweeter design. Each amplifier is equipped with a 1/4" unbalanced Instrument Input, Active/Passive switch, variable Input Gain control with Overload LED, 3 band Active Equalization with sweep frequency midrange, variable Contour Control, Master Volume control, 1/4" Tuner Output, Headphones Output, Effects Loop, balanced Direct Out with ground lift switch, CD/Tape input and a 100 watt power amplifier with 1/4" speaker jack output and speaker On/Off switch. Both models are finished with a distinctive look and offer a bottom-mounted, tilt-back handle in order to point the cabinet up towards the performer in tight stage applications.

INPUT – The GBE-100 is equipped with a standard ¼” unbalanced input. Input sensitivity can be switched from approximately 300 mV (passive) to 1.25 volt (active). The input impedance is 500 k ohms. The precision input scaling preamp contains a 36 Hz, 12 dB/octave high pass filter (more effective and less intrusive than the more common 6 dB filters) and an “RFI” filter (radio frequency interference) to eliminate unwanted noise. The input gain stage consists of a feedback type circuit that provides continuous variable gain control with minimal noise.

ACTIVE/PASSIVE SWITCH - This switch sets the input sensitivity for either passive or active (battery powered) basses. The Active position reduces the input sensitivity by approx. -10db.

GAIN CONTROL – This continuous variable control adjusts the input signal to the preamp. Use this in conjunction with the input O/L LED.

O/L LED – This LED indicates OVERLOAD (clipping) of the input signal. For the cleanest input signal possible this LED should only light with the strongest peaks from the instrument.

TUNER OUTPUT – The GBE-100 is equipped with a parallel and fully isolated tuner output. Within the amplifier design this jack is located after the front end scaling preamplifier, is pre-signal shape and pre-eq and may also be used to drive a separate direct box or high impedance recording device.

CONTOUR CONTROL – The GBE-100 is equipped with a variable “contour” control that provides a wide bandwidth mid-scoop style filter in the signal path. With the control in the counter-clockwise position, the filter is effectively removed from the signal path.

ACTIVE EQUALIZATION – The GBE-100 contains an active 3 band active equalizer with sweep frequency midrange. This equalizer, similar to those found on professional sound consoles, is a very useful tool. The low frequency eq section is a 100 Hz, shelving curve with 15dB of cut or boost. The high frequency eq section is a 3.5 kHz, shelving curve with 15dB of cut or boost. The “sweep mid” section features 12 dB of cut or boost with a bandwidth approximately 1 octave wide. The center frequency of this filter is continuously user adjustable from 150 Hz to 2 kHz with a single control. This filter is typically (but not always) used to reduce or remove offending frequencies in the instrument’s pick-up response, or boosting response to achieve a particular voicing. Spend some time experimenting so that the process becomes creative as well as corrective.

MASTER VOLUME – The master volume control adjusts the overall volume of the amplifier and the effects return. Typically, best results are obtained when this control is operated between the 9:00 and 3:00 positions.

HEADPHONE OUTPUT - Use this jack to connect standard headphones (8-600 ohms). A speaker switch on the back panel shuts off the internal speaker of the combo, allowing private practice or studio work. This output is short circuit protected.

DIRECT OUTPUTS – The GBE-100 is equipped with a high quality pre-eq. balanced direct output with a ground lift switch for pin 1. The output level is –10dB nominal line level, pin 2 hot, and the output impedance is 600 ohm. The direct output is fully protected from mixers providing phantom power up to 48 volts.

CD/TAPE INPUT – This line level input allows a buffered connection for a CD or Tape player for practice sessions or band rehearsals.

EFFECTS LOOP – The GBE-100 is equipped with an effects loop, allowing commonly used “series” type effects (such as compression/limiting units) or parallel effects (such as chorus or flange units that contain an on-board “mix” control). Within the amplifier design the location of the effects loop is post contour control and pre-equalization. The signal is routed through the loop automatically if an effects unit is not plugged in. An additional feature of the effects loop is that the effects send jack can be used as a post-signal shape, pre-eq line output. Plugging into the effects return jack will break the signal path and provides for a pre-eq line input.

SPEAKER ON/OFF SWITCH – This switch is provided for use with the headphone feature. It is provided for private practice or studio work.

POWER AMPLIFIER – The GBE-100 contains an advanced fan-cooled monolithic power amplifier circuit that is fully protected against overloads, short circuits and thermal faults. Output is rated at 100 watts with excellent overload recovery characteristics. A unique feature of this amplifier is the “on silicon” temperature sensor that automatically tracks and adjusts the amplifier’s operating and protection parameters, a very cool feature that increases product reliability 10-fold over conventional designs. Driving speaker loads below the amplifiers rated minimum load (4 ohms) will result in distortion and possibly intermittent operation as the protection circuits are activated.

POWER INPUT – The GBE-100 is shipped from the factory with a standard IEC type power inlet connector and the appropriate power cable for the market the amplifier was shipped to. The power transformer is a universal input (115/230 volt, 50/60 Hz) with a voltage selector switch located above the inlet connector. Be sure that this switch is in the correct position (matching your local power system) BEFORE connecting the GBE-100 to the power source! There is an AC mains fuse (with a spare fuse included!) located in the small slide out tray on the IEC power inlet connector. Always replace with the correct value fuse as indicated on the fuse chart located on the back of the amplifier.

SPEAKER ENCLOSURE – Both available models are loaded with a 4 ohm speaker load.

The GBE 100 series is not designed to run an extension enclosure. The woofers are specially designed heavy-duty speakers, with 2” voice coils and rear-vented magnet structures. The piezo tweeter is fully protected reproducing articulate high frequency response.

CAUTION!

- Never set an amplifier on anything that will tip over or collapse under its weight.
- These amplifiers are capable of producing sound pressure levels that may cause hearing loss.
- There are no user serviceable parts inside these units. Always consult a qualified repair facility for service.

WARNING!

- The use and operation of this device constitutes an agreement of full release of any and all liability connected with it's use. Only persons familiar with the operation of high-powered audio equipment should attempt to operate this device.
- In addition, by use of this device, the user agrees to hold Genz Benz Enclosures, Inc. and it's designers, sales agents and all other affiliates and related parties harmless in the event of any accident, injury, damage or loss resulting from such use.
- Manufacturer's sole responsibility is to provide a warranty on the specified performance of the product under normal operating conditions for a period of 3 years.

WARRANTY:

- Genz Benz Enclosures, Inc. warrants the model GBE-100 to be free from defects in materials and workmanship for a period of 3 years from the date of purchase, when purchased from an authorized Genz Benz dealer.
- This warranty does not cover normal wear and tear incurred from the normally designed use of the product.
- This warranty is effective only if a copy of the original sales receipt is presented at the time of warranty service
- This limited warranty is completely transferable to any subsequent buyer as long as the original sales receipt is also transferred to such subsequent buyer.
- All warranty service must be performed by a Genz Benz authorized service center.
- Before returning any unit for service, a returned merchandise authorization number (RMA#) must be obtained by calling 480-941-0705

SAMPLE SETTINGS

SLAP FUNK (SCOOPED MIDS)

GBE 100
ONE HUNDRED

DIRECT OUT
MIC LEVEL GROUND LIFT

PREAMP
INST. INPUT ACTIVE PASSIVE TUNER OUT GAIN O/L

SHAPE
MIN MAX CONTOUR

ACTIVE EQUALIZATION
PARAMETRIC
-15 +15 -15 +15 150KHZ 2KHZ -15 +15
LOW MID MID FREQ HIGH

OUTPUT
0 10 MASTER VOLUME PHONES OUT

POWER ON OFF

JAZZ / ACOUSTIC BASS TONE

GBE 100
ONE HUNDRED

DIRECT OUT
MIC LEVEL GROUND LIFT

PREAMP
INST. INPUT ACTIVE PASSIVE TUNER OUT GAIN O/L

SHAPE
MIN MAX CONTOUR

ACTIVE EQUALIZATION
PARAMETRIC
-15 +15 -15 +15 150KHZ 2KHZ -15 +15
LOW MID MID FREQ HIGH

OUTPUT
0 10 MASTER VOLUME PHONES OUT

POWER ON OFF

ROCK (WITH OR WITHOUT A PICK)

GBE 100
ONE HUNDRED

DIRECT OUT
MIC LEVEL GROUND LIFT

PREAMP
INST. INPUT ACTIVE PASSIVE TUNER OUT GAIN O/L

SHAPE
MIN MAX CONTOUR

ACTIVE EQUALIZATION
PARAMETRIC
-15 +15 -15 +15 150KHZ 2KHZ -15 +15
LOW MID MID FREQ HIGH

OUTPUT
0 10 MASTER VOLUME PHONES OUT

POWER ON OFF

Rev. 1

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