

MB 108 Combo
OWNER'S MANUAL

MB 108 COMBO

Congratulations!

Your purchase of a new Gallien-Krueger amplifier is surely the result of much careful consideration on your part. For our part, we at Gallien-Krueger are pleased that you chose us, and are determined that you will be a satisfied customer. In choosing a GK amplifier, you now own an amplifier with many unique features which will allow you to create your own distinct sound.

To get the most out of your new purchase, please take a few minutes to read through this manual. If you are in a hurry, we suggest you at least read through the Front Panel Features/Quick Start section before setting up your new amp. This will help get you started and give you a few quick tips, but is not a substitute for reading the rest of the manual.

Your amplifier should have come with the following items, please check the contents of the box to ensure that you have everything.

Included with your MB Series Combo Amplifier:

Power cord	1
Owner's manual	1
Warranty card (US only)	1

If your amplifier did not come with all the items listed, or if you encounter problems while setting up your new equipment, please contact your local dealer or GK as soon as possible.

Gallien-Krueger, Inc.
2234 Industrial Drive
Stockton, CA 95206
phone: (209) 234-7300
fax: (209) 234-8420
Internet: www.gallien-krueger.com
Email: info@gallien.com

We wish you a lifetime of good playing and remember to always have fun!



GK Philosophy

I have never seen the point in doing things the way others have done them. I also have not been very interested in following the latest fad. I'm a Stanford educated engineer who worked my way through school as a musician. Like all musicians, I have lugged amplifiers up stairways and into car trunks, always wondering why these things had to be so heavy, bulky, and hard to handle.

As the principal innovator at GK, our products reflect my attitudes and life experiences. I don't model my designs after other manufacturers' products. Instead, I believe new and old problems are best solved with new solutions. Having taken our own path, GK products enjoy a unique, unmatched sound, allowing you every opportunity to make an original statement.

Having supported my products for over thirty years, I have learned from the story they tell. Gallien-Krueger is a reflection of that story, and has a commitment to support that legacy. Just as the products I created over thirty five years ago are still telling their story, the products we create today will be talking to us tomorrow.

We'll be listening,

Robert Gallien
Founder and President

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Safety Information

Please read all enclosed safety precautions before connecting or operating this product.

Verify Line Voltage and Amperage: Your new amplifier has been factory configured for use with the specific line voltage for your location:

**100-120 Volt/60Hz 15 A circuit for USA/Canada.
220-240 Volt/(50/60Hz) 10 A circuit for UK/Australia.**

220-240 Volt/(50/60Hz) 10 A circuit for Europe.

100-120 Volt/50Hz 15 A circuit for Japan.

220-240 Volt/50Hz 10 A circuit for Korea.

Proper AC circuit for all other countries.

Connecting the amplifier to a line with specifications other than indicated above can create safety and fire hazard, and may damage the amplifier. If you have any questions about the voltage requirements for your specific model, or about the line voltage in your area, contact your dealer before plugging the unit into a wall outlet.

Verify AC Circuit Capacity Before Use: The high power output of your amplifier may require heavy current draw under full load conditions. To insure proper performance and avoid potential safety hazards, we recommend connection to line circuits with amperage specified as above. Connecting to the same circuit used by other heavy power devices, such as high wattage lights, may cause circuit breakers to trip. It is always a good idea to avoid using any audio equipment on the same AC circuit as equipment with motors, such as air conditioners or refrigerators. This will lessen the possibility of power variation and electrical start up noise affecting your sound.

USA: Indoor use only.

Norway: Apparatet må tilkoples jordet stikkontakt

Sweden: Apparaten skall anslutas till jordat uttag

Finland: Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan

China: 在海拔高度 2000 米或更低和非热带位置仅用

AC Power Cord: To avoid safety hazards, use only the power cord supplied with your unit. If a replacement cord is needed, make certain to use a standard IEC compliant cord. Damaged power cords should be replaced immediately. When setting up, make certain that the AC plug is easily accessible. If you do not intend to use the amplifier for a considerable length of time, disconnect the plug from the AC mains socket. Do not use an extension cord.

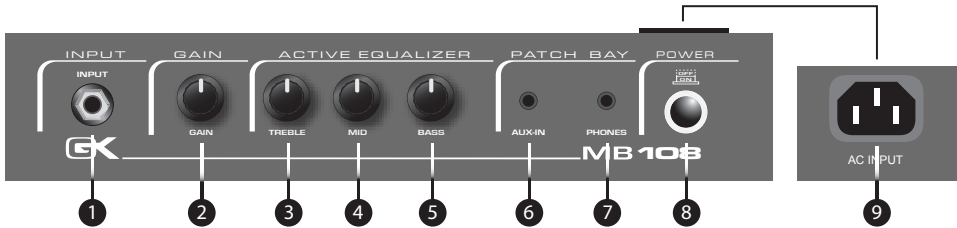
Earth Grounding Connection: To prevent electric shock, do not remove the grounding plug on the power cord, or use any plug or extension cord that does not have a grounding plug provided. Make certain that the AC outlet is properly grounded as well. Do not use an adapter plug with this product.

Do Not Open the Amplifier Enclosure: There are no user serviceable parts inside this product. Opening the amplifier enclosure may present a shock hazard. Modification to the product will void your warranty. If liquid enters the unit, or any metal object such as a paper clip accidentally falls inside the enclosure, disconnect the unit from the AC power source immediately and consult an authorized service station.

Setup: To insure proper operation and to avoid potential safety hazards, place the unit on a firm, level surface. Do not plug or unplug the instrument cable while the amplifier power is on.

Heat & Ventilation: Make sure there is space provided for proper ventilation. Avoid using in extremely hot or cold locations and areas that are exposed to direct sunlight or near heating equipment. Avoid using in moist or high humidity areas.

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MB110 Control Panel Features

- 1 Input:** A standard 1/4" (6.3mm) input to connect instruments using a shielded cable.
- 2 Gain:** Sets the preamp gain after the input stage. It is used in conjunction with the input pad to optimize the amplifier's headroom.
- 3 Treble:** Boost and cut at 8 kHz shelving type. Use this control to add or remove edge and definition.
- 4 Mid:** Boost and cut at 500Hz. A 'Q optimized' band pass type works on lower string harmonics and effects the punch of your sound.
- 5 Bass:** Boost and cut at 50Hz, shelving type used to control the low end push.
- 6 Aux In:** This 1/8" (3mm) input for a CD or MP3 player allows the user to monitor an external audio source.
- 7 Phones:** A 1/8" (3mm) headphone jack is provided. When phones are connected, the signal sent to the speaker is interrupted.
- 8 Power Switch:** Turns the amplifier on and off. In the on position, the ring surrounding the button will light red during power up then changes to blue, indicating the amp is ready for normal operation. Should the amp experience a fault (over heat or over current) the amp will mute and the ring will light red until the condition is corrected. This LED turns off when the power is switched off. This turns the amp off but it does not completely disconnect the power from the AC mains.

Rear Panel Features

- 9 AC Receptacle:** The detachable power cord connects here.

Quick Start

The MB Series Combos are designed to be simple to operate and all controls have a well defined purpose. These directions will take you through the basics and give you a good start for setting up your sound.

Initial front panel control settings: Set all EQ controls to 12:00 and the input gain should be set to zero.

Volume settings: Set the Gain (volume) to 12 o'clock. While playing, turn the input gain up to the desired volume level. At this point you can experiment with different EQ settings.

Tech Talk

Equalization: Standard tone controls and graphic equalizers give you plenty of variation, but they don't provide what the instrument really needs. The fact is, graphic equalizers are intended for room equalization.

The equalization in Gallien-Krueger amplifiers reflects 40 years of continuous development and refinement.

Smart Protection Circuitry: The MB Series protection circuitry constantly monitors for unsafe operating conditions such as short circuits, miswired speaker cables, blown speakers, improper ventilation, and incorrect speaker configurations. In addition, protection is provided during power up/down. If the MB 108 senses any unsafe operating conditions, the output signal is immediately muted and the power light changes from Blue to Red. The amplifier will remain muted until the fault is removed. If the problem persists, contact GK directly for technical advice.

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SPECIFICATIONS & CERTIFICATIONS

Output Power: 25W @ 8 Ohms

Input/Output Specs:

Maximum Input Level 0.6V Rms
Input Impedance 1M Ohms

Equalizer:

Bass +/-10dB @ 50Hz
Mid +6dB/-10dB @ 500Hz
Treble +/-14dB @ 8KHz

Noise: -90 dB reference to 40W, "A" Weighted

Amplifier Protection: Full short circuit, thermal and RF protection. Stable into reactive and mismatch loads. Five second muted warm-up.

Dimensions (HxWxD):

15.56" (395.34mm) x 12.54" (318.64mm) x 11.55" (293.24mm)

Weight:

17.5 lbs. (7.9 kgs)

Power requirements:

U.S.A./Canada 120V/50/60Hz.
40W (full power), 5.71W (average power)
Europe 230V/50Hz/60Hz
40W (full power), 5.71W (average power)
Japan 100V/50Hz/60Hz
40W (full power) 5.71W (average power)



This device has been tested and found to comply with: CAN/CSA 60065-03+AM 1+2 Safety Requirements. UL std. No. 60065-03 (2012) Safety Requirements. IEC 60065-01 + AM 1+ Am2.



This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.



This device has been tested and found to comply with:
EN 61000-6-1: 2007 Immunity.
EN 61000-6-3: 2011 Emission.



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Part # 160-0810-A