Congratulations!

Your purchase of a new Gallien-Krueger MB Series 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 MB Series 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 Quick Start section before setting up your new rig. 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 Amplifier:

- Power cord 1
- Owner’s manual 1
- Warranty card (US only) 1
- Safety instructions sheet 1

If your MB Series 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.

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Stockton, CA 95206
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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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*All Features and specifications are subject to change without notice

Please read the Safety Information section on page 4 and installation instructions on page 8 before continuing.

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Warning!
This amplifier is capable of producing high sound pressure levels. Continued exposure to high SPL’s can cause damage to your hearing. Always set the volume at a safe listening level or use hearing protection if the unit is operated at higher levels.
Safety Information

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

Verify Line Voltage and Amperage

Your amplifier has been factory configured for use with the specific line voltage for your location only. For example, units set to operate within countries that supply 100-120 volt electrical service are not compatible with 230-240 volt systems used in other countries.

120 Volt/60Hz 15 amp circuit for the USA and Canada.
230 Volt/(50/60Hz) 10 amp circuit for the UK and Australia.
230 Volt/(50/60Hz) 10 amp circuit for Europe.
100 Volt/50Hz 15 amp circuit for Japan.
220 Volt/50Hz 10 amp 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.

Please refer to page 10 for more instructions concerning installation.

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 or speaker 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. NEVER BLOCK THE FAN VENT HOLES ON THE SIDES OF THE UNIT.
Quick Start

The MB Series amplifier is designed to be simple to operate. 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.

1. **Plug it in:**
   Set the power switch to Off and connect the supplied power cord, from the amplifier AC receptacle, to an AC power outlet of proper voltage and power rating (see safety information on page 5 for details).

2. **Connect your cabinets:**
   Connect your speaker cabinet to the amplifier output marked ‘speaker’ using a 2 pin or GK 4 pin Speakon cable. Be sure not to exceed the recommended speaker load as noted below.

   **Maximum Recommended Speaker Loads:**
   One 4 Ohm, or two 8 Ohm cabinets.

3. **Initial front panel control settings:**
   Set all EQ controls to 12 o’clock and the contour switch to off. Set the input volume controls at 0.

4. **Plug in your bass:**
   Using an instrument (shielded) cable, connect your bass to the Input jack and press the power switch on. If you have active tone controls on your bass, turn all of the controls to the middle or flat position and turn the volume all the way up. If you have conventional, passive tone controls, turn all tone and volume controls all the way up.

5. **Level and Master Volume settings:**
   Set the Master Volume to 3 o’clock. Turn the Input Volume knob up as you play to the desired output level. If the clip light (pad switch) flashes more than occasionally, switch the -10db pad switch to on and turn the Input Volume knob up. If it is still lighting often, try turning the volume down on your bass.
MB 200 Controls

1. **Input:** A standard 1/4” input jack to connect active or passive basses using a shielded cord.
2. **-10 dB Pad/Clip indicator:** Input attenuator switch. This switch is generally set to the out position except in cases where the clip LED flashes more than occasionally. It may be necessary to “pad” the input if you are using a bass with active electronics or very high output. The pad button light flashes red when the input is being overdriven. If the -10dB is switched on and the clip indicator still flashes frequently, reduce the volume on your bass.
3. **Gain:** Sets the preamp gain after the input stage. It is used in conjunction with the input pad to optimize the amplifier’s headroom.
4. **Contour:** As part of the amp’s active equalization the contour switch decreases the mid-range frequencies while boosting low and high frequencies.
5. **Treble:** Boost and cut at 7 kHz +14 dB shelving type. Use this control to add or remove edge and definition.
6. **Hi-Mid:** Boost and cut at 1 kHz +6 dB. A “Q Optimized,” band pass type, this works on lower string harmonics and effects the punch of your sound.
7. **Low-Mid:** Boost and cut at 250Hz +6dB/-10 dB. A “Q optimized” band pass type, this works for main body of your sound.
8. **Bass:** Boost and cut a 60Hz +10 dB, shelving type. This is used to control the low end push. Turned up.
9. **Power Button:** 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.
10. **AC Receptacle:** The detachable power cord plugs in here.
11. **Balanced Direct Out:** This electronically balanced output allows a direct connection to a P.A. system with a standard mic cable.
12. **Pre/Post EQ Button:** This button switches the direct out signal to be before or after the EQ.
13. **Aux In:** This 1/8” input for a CD or MP3 player allows the user to monitor an external audio source.
14. **Headphone/line out/chain out:** When switched, this output allows the user to send a direct (unbalanced) line out to devices with unbalanced inputs such as personal multitrack recorders. This connection requires a shielded patch cord. The Chain out allows the user to connect directly to a GK MBP powered extension cabinet. This connection is made with a balanced, tip, ring, sleeve to male XLR cable. Unswitched, this headphone jack can be used to monitor your playing with headphones.
15. **Headphone/line out/chain out switch:** This switch toggles the output from headphone to line out.
16. **Speaker:** The power amp output to a speaker cabinet delivers 200w into 4 Ohm loads. Lower impedances such as 8 Ohms or 16 Ohms and no load are acceptable. One 4 Ohm speaker and one 8 Ohm speaker is not recommended. A twist-lock 2 pin or 4 pin GK Speakon connector is required.
Sound Tips

The MB Series has several unique features which, if used properly, will help you obtain the sound you have been searching for.

The Equalizer:
The equalizer is used to fine tune your sound. When adjusting making adjustments, do it just a little at a time. These are active circuits and small changes can make a big difference in your sound. With a little experimentation you will find that this equalizer is very easy to use and provides you with a large variety of great sounds unique to GK.

Direct Out:
The MB Series provides a low noise, high quality balanced direct output for connection to PA and recording consoles.

With the pre/post EQ switch set to “pre” (out), the direct output signal is fed directly from the input stage providing a low noise output superior to external direct boxes and impedance transformers. In the "pre" position, the direct output signal is only effected by the input volume, -10db pad and mute. This allows you to adjust your tone and volume on stage without changing the direct output signal level and confusing your sound man.

Changing the pre/post EQ switch to “post” (in), sends the "GK sound" (EQ settings etc.) and preamp response to the direct out jack. This gives you complete control over the direct out’s tone and volume.
Installation:
To insure proper operation and to avoid potential safety hazards, place the unit on a firm, level surface.

Ventilation:
Make certain that proper space is provided for ventilation. Never block the fan vent holes located on the sides of the amplifier. If the amplifier will be installed in a rack or other enclosed area, make sure that there is sufficient air movement within the enclosure to allow proper cooling. Consult your dealer for more information. Avoid installation in extremely hot or cold locations, and areas that are exposed to direct sunlight, or near heating equipment. Avoid moist or humid locations.

Remember, power amplifiers generate heat. The ventilation slots on the enclosure are specifically designed to remove this heat. Blocking or placing other electronic equipment near the heat dissipation system may possibly affect the long-term reliability of both your amplifier and the other equipment.

Moving the Unit:
Before moving the unit, be certain to disconnect any interconnection cords with other components, and make sure that you disconnect the unit from the AC outlet.

Cleaning:
When the unit gets dirty, clean only with a dry cloth. Never use benzene, thinner, alcohol, or other volatile cleaning agents. Do not use abrasive cleaners, as they may damage the finish of metal parts. Avoid spraying insecticides near the unit.

Maintenance:
Your new amplifier is rugged. It was built to give you a lifetime of trouble-free operation, if it is operated in accordance with the instructions contained in this manual. The only maintenance required is cleaning. If you are going to move your amplifier around frequently, we recommend a road case to protect it from scratches and road wear.

Packaging:
The carton and packing materials used in shipping your new amplifier were specifically designed to cushion it from the shocks and vibration that occur during transport. We suggest that you save the carton and packing materials for use in shipping, in the event you move, or the amplifier needs repair.
Tech Talk

Characteristics of the MB Series:
The MB Series is a flexible, state-of-the-art amplifier designed to deliver maximum performance while remaining small, lightweight and simple to operate. This is accomplished through a few, very important features:

- Class D power supply and power amp.
- Four, Bass specific bands of active equalization for precise tone control.
- Balanced direct output eliminates the need for a direct box.
- Continuously variable fan cooling.

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.

The GK equalizer is unique to the industry, it's not just a normal four band equalizer, each section is a special circuit optimized to perform a bass specific job in its range of operation.

These sections are wired in series, so they add to one another creating a tremendously flexible equalizer, that sounds natural at any setting. Now it is possible to obtain the sound you desire.

Contour:
The Contour is used to completely revoice the amplifier. This control tunes between two different shaping circuits, with greatly different responses. With the control all the way up, the low end is slightly boosted, the mids are dropped and the high end is pushed up. This is only found in GK amplifiers.

Cool Running = Reliability:
To cool the amp when its being driven hard, we've designed a temperature sensitive fan cooling system. When the amp is under a light load, the fan is off or running at a low speed, reducing fan noise. As the amp works harder, the fan speed increases to keep everything cool.

Smart Protection Circuitry:
The MB Series protection circuitry constantly monitors for unsafe operating conditions such as short circuits, miss-wired speaker cables, blown speakers, improper ventilation, and incorrect speaker configurations. In addition, protection is provided during power up/down. If the MB Series 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 protection circuit activates while playing, turn the amplifier off and check the amplifier speaker output connections. Be sure that you are not exceeding the maximum recommend load described in this manual. If the problem persists, contact GK directly for technical advice.

In Closing:
You should now have a thorough understanding of how your new MB Series amplifier works and what advantages it can offer you in getting “your” sound. We thank you for reading the Owner’s Manual and wish you the best of times! Please send us your comments via www.gallien-krueger.com or email us at sales@gallien.com.
Output Power: 140W @ 8 Ohms, 200W @ 4 Ohms.

Input Section:
- Maximum Input Level: 0.6V Rms
- With -10dB pad: 1.6V Rms
- Input Impedance: 1M Ohms
- Direct Output Impedance: 500 Ohms
- Aux-In Input Impedance: 100K Ohms

Equalizer:
- Bass: +/-10dB @ 60Hz
- Lo-Mid: +6dB/-10dB @ 250Hz
- Hi-Mid: +6dB/-10dB @ 1KHz
- Treble: +/-14dB @ 7KHz

Voicing Filters:
- Contour: +2dB @ 50Hz/ -10dB @ 500Hz/ +3dB @ 7 KHz

Dimensions:
- Height: 2.50” [63.50mm] (With Rubber Feet)
- Width: 1.75” [44.45mm] (Without Rubber Feet)
- Depth: 7.75” [196.85mm]
- Weight: 2.00 lbs. [0.91 Kg]

Power requirements:
- U.S.A/Canada 120V/60Hz.
  240W(full power), 48.6W(average power)
- Europe 230V/50Hz/60Hz
  240W(full power), 48.6W(average power)
- Japan 100V/50Hz
  240W(full power), 48.6W(average power)


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

Cooling:
- Variable speed fan.

MB200 SPECS

MB 200
BLOCK DIAGRAM

GALLIEN-KRUEGER
MB200
Owners Manual
Part # 160-0630-A2