

GK GALLIEN-KRUEGER

SBX Series Cabinets

Owner's Manual



SBX Series Cabinets

Congratulations

Your purchase of a new Gallien-Krueger SBX Series cabinet 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 SBX Series cabinet, you own a unit 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 "SBX Cabinet Setup section before using 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 cabinet should have come with the following items, please check the contents of the box to ensure that you have everything.

Included with your SBX Series cabinet:	
810SBX, 410SBX, 115SBX, or 210SBX	1
Swivel Castor (410SBX & 115SBX only)	4
Owner's Manual	1
Warranty Card	1

If your SBX Cabinet did not come with all the items listed above, or if you encounter problems while setting up your new equipment, please contact your local dealer, or us as soon as possible at:

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

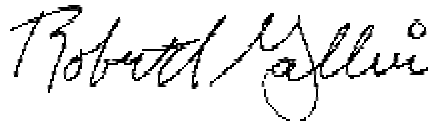
We wish you a lifetime of good playing and remember to always have fun!

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 am a Stanford educated engineer who worked his 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 I am the principal innovator at GK, our products reflect my attitudes and life experiences. I don't model my designs after other manufacturer's products (as some of our competitors are proud of reciting). 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 the artist using them 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 thirty years ago are still telling their story, the products we create today will be talking to us tomorrow.



Robert Gallien

Founder & President

SBX Series Cabinets

SBX Features

SBX Series Cabinets are designed to offer the ultimate in sound quality and stage flexibility. They can be played in several positions, upright, stacked on their sides, or rocked back for close monitoring situations. A unique interlocking corner design allows the cabinets to lock together in various positions.

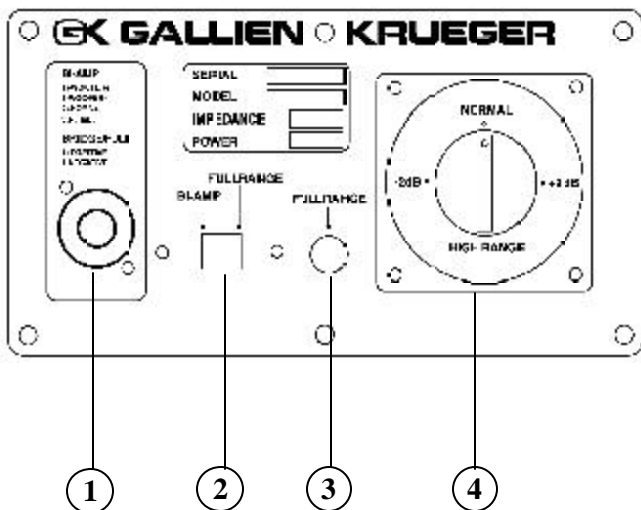
Horn Management System (HMS):

All SBX cabinets include a passive crossover for standard operation or may be used with GK's unique Horn Management System (HMS).

HMS compatible amplifiers use an electronic crossover to split the signal between the main amplifier and a separate horn (tweeter) amplifier. The horn amp sends signals above 5kHz to the horn while the main amplifier sends a full range signal to the woofers. Optionally you can engage the Woofer High-Cut to cut signals above 5kHz from the main amplifier. Both signals are delivered to the cabinet via a single 4-conductor high current twist-lock cable (Speakon). This arrangement does two things for the sound:

- 1) Electronic crossovers, can be far superior to the passive crossover found in full range speaker cabinets, providing a more seamless, accurate sound.
- 2) With separate power amps for the horn and woofer, the artist can overdrive the woofer power amp (creating the desired growl) while keeping the horn amplifier clean and undistorted.

Crossover:



1) Four-Conductor Speakon Connector:

SBX Series cabinets include a Speakon® connector, which allows for HMS operation when using a 4-conductor Speakon compatible cable available from GK. Pins 1+ and 1- connect the main amplifier to the woofers in the cabinet. Pins 2+ and 2-, connect the horn amplifier to the tweeter. When using a standard 2-conductor Speakon cable, (pins 1+ and 1-) this connector may also be used for full range operation.

2) Mode Switch:

Switches between Horn Bi-Amp (HMS) mode and Full Range operation. When using this cabinet with an HMS compatible head such as the 1001RB-II, this switch should be set to Bi-Amp. For operation with non HMS amplifiers this switch should be set to full range.

3) Full Range ¼" Input:

Using a standard ¼" speaker cable, this input jack provides full range operation with any bass amplifier head. HMS mode will not work with this jack.

4) High Range Attenuator:

Adjusts the volume level of the horn when the cabinet is in full range mode. When used in Bi-Amp mode with an HMS compatible amplifier like the 1001RB-II, this control is bypassed and the horn level is adjusted by using the Tweeter control on the front panel of the amplifier.

Bi-Amp Mode:

When the mode switch is set to Bi-Amp, the passive crossover is bypassed and the cabinet may be used with an HMS compatible head such as the GK 1001RB-II. Use a 4-conductor, Speakon cable (available from GK) to connect the head to the cabinet. Adjustments to the tweeter and woofer signals are controlled from the amplifier's front panel. (the High Range attenuator in the cabinet is bypassed).

Full Range Mode:

SBX series cabinets are configured for full range operation by setting the mode switch to Full Range. In this mode you can use either the ¼" or the Speakon connector for operation. If you are using the Speakon connector, make sure the amp positive lead is connected to 1+ and the amp negative lead is connected to 1- on the connector. In this mode the cabinet is setup for full range operation and the tweeter level is controlled by the High Range control on the SBX cabinet.

Stacking Recommendations:

To insure the safe setup of the SBX series cabinets please follow these basic procedures:

When stacking the cabinets make sure the corners interlock/lock in place.

Do not stack the cabinets so the handles are facing one another. The handles must always be situated on the left and right sides of the unit in all stacking variations.

Never stack the 210SBX on its left or right handle side.

SBX Series Cabinets

Specifications:

Cabinet:	210SBX	410SBX	115SBX-II	810SBX
Power Handling:	200W	400W	400W	800W
Impedance:	8 Ohms	8 Ohms	8 Ohms	4 Ohms
Port Style:	Sealed	Sealed	Front Port	Sealed
Dimensions:	23"W 15.75"H 18"D	23"W 23"H 18"D	23"W 23"H 18"D	26.5"W 49"H 17"D
Weight:	49 lbs	84 lbs	64 lbs	145 lbs
Covering:	Carpet	Carpet	Carpet	Carpet
Construction:	Heavily braced cabinet, 16 gauge steel grill, custom tooled interlocking corners.			
Castors:	No	Removable	Removable	Rear-Mounted Top-Mounted Handle
Speakers:				
Woofers:	2 x GK 10B100-16	4 x GK 10B100-32	1 x GK 15B400A-8	8 x GK 10B100-32
Horn:	GK 5H50-8	GK 5H50-8	GK 5H50-8	GK 5H50-8
Inputs:				
¼ in Full Range:	Yes	Yes	Yes	Yes
Speakon Bi-Amp/ Full Range:	Yes	Yes	Yes	Yes
Cross-Over:				
Passive X-Over:	18dB/Oct.	18dB/Oct.	18dB/Oct.	18dB/Oct.
Bi-Amp Mode:	Yes	Yes	Yes	Yes
Attenuator:	Yes	Yes	Yes	Yes
Horn Protection:	Power Compensating	Power Compensating	Power Compensating	Power Compensating
Performance:				
Sensitivity:	102 dB	102 dB	101 dB	103 dB
Freq. Response:	36 Hz to 19 kHz ±5dB	36 Hz to 19 kHz ±5dB	36 Hz to 19 kHz ±5dB	36 Hz to 19 kHz ±5dB

GALLIEN-KRUEGER

