

Bugera

THE SOUL OF VALVES

412H-BK

User Manual

Version 1.0 January 2007



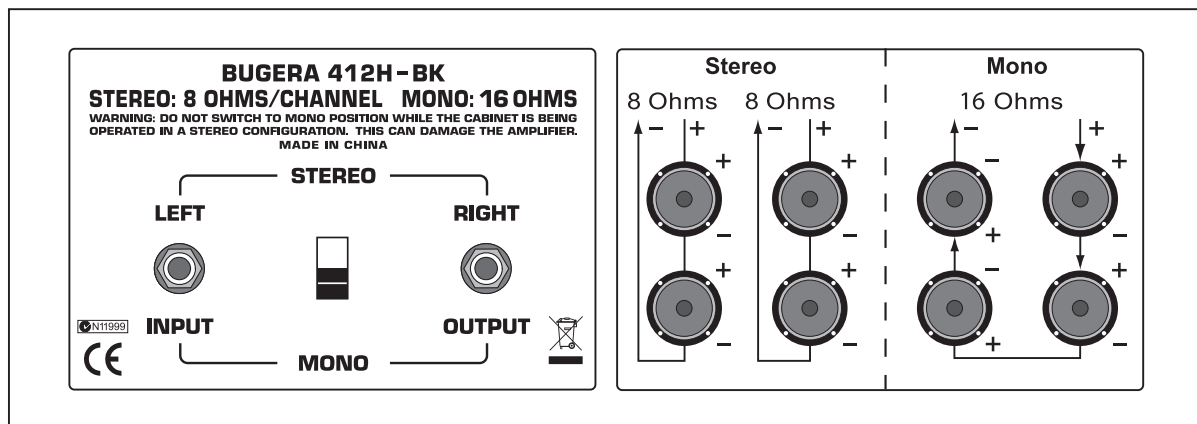
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www.bugera-amps.com

Dear Customer,

welcome to the team of BUGERA users, and thank you very much for expressing your confidence in BUGERA products by purchasing the BUGERA 412H-BK. Even though hooking up and operating the 412H-BK is very easy, we would still like to provide you with a brief description of this excellent speaker cabinet and its features.

- **The BUGERA 412H-BK can produce extreme sound pressure levels. Please note that high SPLs do not only result in listening fatigue but can also permanently impair your hearing.**
 - Please turn off the amp and disconnect it from the mains before connecting it to the speaker cabinet.
- **Turn off the amp before changing the BUGERA 412H-BK settings.**
 - Select stereo or mono operation and set the switch accordingly:
Set the BUGERA 412H-BK to MONO to drive it from a single power amp. In this case, the speaker cabinet's impedance is 16 Ohms. Use the 412H-BK's INPUT connector to connect the speaker cable.
 - If you have two amplifiers or a stereo power amp, you can operate the 412H-BK in two-channel mode by setting the BUGERA 412H-BK to STEREO. Then, the speaker's impedance is 2 x 8 Ohms. Connect the left channel of the power amp to LEFT, and the right channel to RIGHT.
- When connecting the 412H-BK to a valve power amp, please use the corresponding output(s) on your amp or set the impedance selector switch to the correct impedance after disconnecting the amp from the mains.
- **Be sure to set amp impedance accordingly.**
- **Disconnect your amp from the mains before changing the impedance settings.**
- **Never use guitar or similar cables to operate the 412H-BK. Always use speaker cables with a minimum diameter of 2.5 mm (10 AWG).**
- **Never operate a valve amp without a load connected to it. If the impedance of the connected speaker cabinet fails to match the amplifier's impedance, the amp could be damaged. Please refer to the operating instructions accompanying your amplifier.**



Rear panel

Wiring

SPECIFICATIONS:

Speaker type	4 x 12" BUGERA Vintage Guitar Series, 12G50J4
Power rating (mono/stereo)	200 Watts / 100 Watts
Impedance (mono/stereo)	16 Ohms / 8 Ohms
Dimensions (W x H x D)	approx. 762 x 762 x 382 mm / approx. 30" x 30" x 15"
Weight	approx. 85 lb (38.6 kg)

We are constantly striving to maintain the highest professional standards. As a result of these efforts, modifications may be made from time to time to existing products without prior notice. Specifications and appearance may differ from those listed or illustrated.

WARNING
 THIS EQUIPMENT IS CAPABLE
 OF DELIVERING SOUND
 PRESSURE LEVELS IN EXCESS
 OF 90 dB, WHICH
 MAY CAUSE PERMANENT
 HEARING DAMAGE.

WARRANTY

§ 1 Other warranty rights and national law

1. This warranty does not exclude or limit the buyer's statutory rights provided by national law, in particular, any such rights against the seller that arise from a legally effective purchase contract.
2. The warranty regulations mentioned herein are applicable unless they constitute an infringement of national warranty law.

§ 2 Online registration

Please do remember to register your new BUGERA equipment right after your purchase by visiting <http://www.bugera-amps.com> and kindly read the terms and conditions of our warranty carefully. Registering your purchase and equipment with us helps us process your repair claims quicker and more efficiently. Thank you for your cooperation!

§ 3 Warranty

1. BEHRINGER warrants the mechanical and electronic components of this product to be free of defects in material and workmanship for a period of one (1) year* from the original date of purchase, in accordance with the warranty regulations described below. If the product shows any defects within the specified warranty period that are not excluded from this warranty as described under § 6, BEHRINGER shall, at its discretion, either replace the product by providing a new or reconditioned product or repair the product using suitable new or reconditioned parts. In the case that other parts are used which constitute an improvement, BEHRINGER may, at its discretion, charge the customer for the additional cost of these parts. In case BEHRINGER decides to replace the product, this warranty shall apply to the replacement product for the remaining initial warranty period, i.e. one year* from the date of purchase of the initial product.
2. If the warranty claim proves to be justified, the product will be returned to the user freight prepaid.
3. Warranty claims other than those indicated above are expressly excluded.

§ 4 Limited warranty valves and meters

Where applicable, BEHRINGER warrants the valves or meters contained in the product to be free from defects in material and workmanship for a period of ninety (90) days from date of purchase, PROVIDED however, that this limited warranty is extended only to the original retail purchaser. This limited warranty is also subject to the conditions, exclusions and limitations hereinafter set forth.

§ 5 Return authorization number

1. To obtain warranty service, the buyer (or his authorized dealer) must call BEHRINGER as exclusive distributor of BUGERA products (see enclosed list) during normal business hours BEFORE returning the product. All inquiries must be accompanied by a description of the problem. The buyer or his authorized dealer will receive a return authorization number.
2. Subsequently, the product must be returned in its original shipping carton, together with the return authorization number. The return shipment address will be indicated by BEHRINGER.
3. Shipments without freight prepaid will not be accepted.

§ 6 Warranty regulations

1. Warranty services will be furnished only if the product is accompanied by a copy of the original retail dealer's invoice. Any product deemed eligible for repair or replacement under the terms of this warranty will be repaired or replaced.
2. If the product needs to be modified or adapted in order to comply with applicable technical or safety standards on a national or local level, in any country which is not the country for which the product was originally developed and manufactured, this modification/adaptation shall not be considered a defect in materials or workmanship. The warranty does not cover any such modification/adaptation, irrespective of whether it was carried out properly or not. Under the terms of this warranty, BEHRINGER shall not be held responsible for any cost resulting from such a modification/adaptation.
3. Free inspections and maintenance/repair work are expressly excluded from this warranty, in particular, if caused by improper handling of the product by the user. This also applies to defects caused by normal wear and tear, in particular, of faders, crossfaders, potentiometers, keys/buttons, tubes, guitar strings, illuminants and similar parts.
4. Damage/defects caused by the following conditions are not covered by this warranty:
 - improper handling, neglect or failure to operate the unit in compliance with the instructions given in BEHRINGER user or service manuals.
 - connection or operation of the unit in any way that does not comply with the technical or safety regulations applicable in the country where the product is used.
 - damage/defects caused by force majeure or any other condition that is beyond the control of BEHRINGER.
5. Any repair or opening of the unit carried out by unauthorized personnel (user included) will void the warranty.
6. If an inspection of the product by BEHRINGER shows that the defect in question is not covered by the warranty, the inspection costs are payable by the customer.
7. Products which do not meet the terms of this warranty will be repaired exclusively at the buyer's expense. BEHRINGER will inform the buyer of any such circumstance. If the buyer fails to submit a written repair order within 6 weeks after notification, BEHRINGER will return the unit. Costs for freight and packing will be invoiced separately C.O.D. When the buyer has sent in a written repair order such costs will also be invoiced separately.

§ 7 Warranty transferability

This warranty is extended exclusively to the original buyer (customer of retail dealer) and is not transferable to anyone who may subsequently purchase this product.

§ 8 Claim for damages

Failure of BEHRINGER to provide proper warranty service shall not entitle the buyer to claim (consequential) damages. In no event shall the liability of BEHRINGER exceed the invoiced value of the product.

* Customers in the European Union please contact BEHRINGER Germany Support for further details.

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