

HBAC-20



Owner's Manual

Acoustic Guitar Combo Amp

Harley Benton

Introduction

Congratulations on your purchase of our acoustic guitar combo amp. With your HBAC-20 you can easily perform your acoustic music with great tone. This model provides high quality sound with a range of useful features. To achieve the best performance and safety operation, you should read all of this manual before using it in a live situation.

- ▶ Power: 20 watt
- ▶ 2 separate channels for mic and guitar
- ▶ Mic channel: level control
- ▶ Guitar channel: level, 3 band EQ with parametric mids, reverb and chorus
- ▶ Line out

Safety instructions

For your own safety you must read this section in full first!



Risk of electrical shock.

- Connect the device only to a properly wired and earthed electrical wall socket providing the mains voltage indicated on the rear panel.
- NEVER operate the device if the power plug or the power cord is damaged.
- NEVER submerge the device in water. Wipe it only with a slightly damp cloth. Liquid getting into the amp will risk a short circuit and will be hazardous.
- NEVER expose the device to direct precipitation or moisture and never use it in a damp or wet environment.
- Ensure that the power cord does not become wet during operation.
- Do not subject the amp to high temperatures, direct sunlight, severe vibrations, shocks or tremors, or excessive dust.
- You must NEVER open the housing of the device or try to repair it. There are no user serviceable parts inside. Warranty will become void if you open the housing.
- Do not place objects containing fluids, e.g. flower vases or beer bottles, on or near the device.
- Notice regarding power disconnection
To completely disconnect the device from the mains power source the power plug must be removed from the power socket. For this reason the device should be placed in a position where a constant unobstructed access to the power socket is assured, thus in an emergency situation you are able to immediately pull out the power plug. To eliminate the risk of fire you should completely disconnect the power plug from the power socket when the device is not going to be used.

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- Always grasp the power cord by the plug. Do not pull on the cord itself and never touch the power cord with wet hands as this could result in a short circuit or an electrical shock. Do not place the device, speaker cabinets or anything else on the power cord and make sure that it does not become clamped. Place the power cord in a position where it can not be trod on. A damaged power cord can cause a fire or an electrical shock. Check the power cord from time to time. Should it become damaged contact our customer service centre to have it replaced.

Risk of fire!

- NEVER leave the device unattended while it is switched on.
- Never cover the ventilation slots of the device while it is switched on. Avoid placing this device in locations that provide insufficient ventilation or hot locations and do not place the device in direct sunlight or under strong artificial light sources. Otherwise, it may overheat and become irreparably damaged.
- Do not place any open sources of fire, like candles, on the device.
- When a thunderstorm with the risk of lightening threatens please disconnect the device from the mains power.

Risk of personal injury!

- Keep the power cable and device away from children. Children frequently underestimate the dangers of electrical equipment.
- Ensure a safe location for the device.
- Do not operate the device if it has sustained a fall or is damaged. Arrange for the device to be checked and/or repaired by qualified technicians.
- Important! Keep sufficient distance from the device when operated with high volume level. Listening to music with high sound pressure level may cause permanent damage to your hearing!



As we continuously strive to improve our products, all specifications and appearance are subject to change without prior notice.

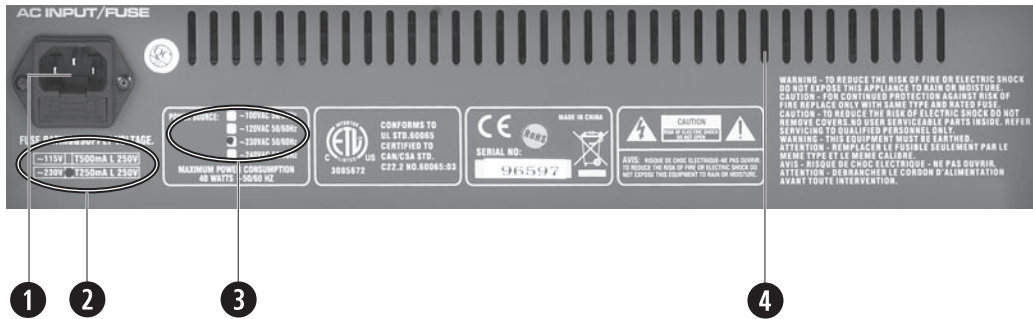
Control elements

Front panel



Mic/Line	3 Pin Low Impedance Microphone Input. Connect balanced low impedance microphones here. Input offers an impedance of 1 kOhm. Wiring is pin 1 = shield, pin 2 = positive (hot), pin 3 = negative (cold).
CD/Line	connect external CD player or similar line level devices here.
Level	volume control for Mic/Line & CD/Line input.
Guitar input	this is an instrument input for plugging in virtually anything. You may plug in a guitar, keyboard, drum machine, mixer cassette deck, CD player or any pre-amped signal.
Active/Passive	this switch allows you to adjust the sensitivity of the input according to the type of pickups/EQ used on the instrument.
Level	to control the overall listening volume of the guitar channel.
Low	to control the low frequencies of the guitar channel.
Mid	to control the adjustable mid frequency of the guitar channel.
Mid Frequency	to set the operating frequency for the mid control.
High	to control the high frequencies of the guitar channel.
Reverb control	to control the level of reverb in the guitar channel.
Reverb button	to activate/deactivate the reverb function.
Chorus control	to control the level of chorus in the guitar channel.
Chorus button	to activate/deactivate the chorus function.
Line out	sends out the signal to an amplifier or mixer.
Power	ON/OFF switch.

Rear panel



- 1 AC socket with fuse holder connect the supplied mains cable here, if the fuse blows, a qualified technician must replace it with a fresh one of same specifications
- 2 Fuse specs indication in this area you find the specifications for the fuse to be used in this device for the respective operating voltage
- 3 Mains voltage indication in this area you find a marking, that indicates the mains operating voltage, that this device is setup for
- 4 Air vents never obstruct these vents during operation

Connecting the amp

Mains voltage

Please ensure that your local area's mains power voltage matches the mains voltage indication ❸ on the unit's rating label *before* you connect the unit to an AC mains power outlet! If in doubt ask a technician.

Mains connection

Use the mains cable enclosed to connect the unit's AC socket on the rear panel to a properly wired and earthed IEC power socket.

Press on the upper part of the POWER switch, to switch the unit on. Press on the lower part of the POWER switch, to switch the unit off.

Connecting instruments and microphones

Plug a mic into the Mic/Line input and an instrument such as a guitar or the like in the guitar input.

Use the Active/Passive switch to adapt the input of the guitar channel according to the pickups/EQ used on the instrument. Turn the respective Level control to set the desired volume.

Use the High/Mid/Low controls to shape the sound. The Low & High controls use fixed frequencies. The operating frequency of the Mid control is sweepable. Use the Mid Frequency control to set this frequency between 200Hz and 4kHz.

If you want to add reverb to the sound of the guitar channel, press the REVERB button and turn the REVERB control. If you want to add chorus to the sound of the guitar channel, press the CHORUS button and turn the CHORUS control.

Disposal

Do not dispose of the device at the end of his operating life in your normal domestic waste. This device is subject to the European Guidelines 2002/96/EC.



- Have the product disposed of by a professional disposal company or by your communal disposal facility.
- Observe the currently applicable regulations. In case of doubt contact your disposal facility.
- Dispose of packaging materials in an environmentally responsible manner.



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Technical specifications

Output Power Rating	20W RMS @ 4 Ohms load
Frequency Response	40 Hz to 10kHz
Total Harmonic Distortion	0.5%
Hum & Noise	-60dB below rated power
Input Impedance	510 kOhms
Power Consumption	40 Watts maximum
Maximum Input Level	0.7 V _{rms}
Maximum Gain	51dB
Dimension (H x W x D)	360mm x 423mm x 250mm
Weight	11.0kg

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