

HBAC-30



Owner's Manual

Battery powered Guitar Amp

Harley Benton

Introduction

Congratulations on your purchase of our portable battery powered guitar amp. With your HBAC-30 you can easily perform your music outside 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: 30 watt
- ▶ Up to 8 hr battery life
- ▶ 2 separate inputs
- ▶ Input 1: level and tone
- ▶ Input 2: gain, low, mid, hi and level
- ▶ Headphone socket
- ▶ Insert socket
- ▶ Stand mountable

Safety instructions

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



Risk of electrical shock.

- Connect the device only using the mains adaptor supplied to an electrical wall socket providing a mains voltage of 230 V / 50 Hz.
- NEVER operate the device if the power plug or 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 lightning threatens please disconnect the device from the mains power.

Risk of personal injury!

- Keep the power adapter 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! 

Damage to the device!

- **You must keep the rechargeable batteries fully charged, even when the unit is not going to be used.**



To keep the rechargeable batteries working, you have to charge them once every 1 - 2 months. Otherwise the rechargeable batteries will be irreparably damaged!



- **Damages to rechargeable batteries are not covered by warranty!**
- NEVER connect the mains adaptor to the „DC CIGARETTE LIGHTER ADAPTOR“ socket, as the output voltage of the mains adaptor is too high for this input.

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

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Control elements

Front panel



INPUT 1	connect an instrument or microphone for channel 1 here
INPUT 2	connect an instrument or microphone for channel 2 here
LEVEL	volume control channel 1
TONE	tone control channel 1
GAIN SELECT	toggles the input sensitivity of channel 2
GAIN	to fine-tune the input sensitivity of channel 2
LOW	to control the low frequencies of channel 2
MID	to control the mid frequencies of channel 2
HIGH	to control the high frequencies of channel 2
LEVEL	volume control channel 2
INSERT	to connect a parallel effects processor
HEADPHONES	connect your TRS jack headphones here
Power indicator	lights up in yellow during operation, turns red when the rechargeable battery needs to be charged
POWER	ON / OFF switch

Rear panel



DC CHARGER PLUG	connect the supplied mains adaptor here
Charging indicator	lights up in red, when the internal battery is charged
DC CIGARETTE LIGHTER ADAPTOR	here you can connect a suitable adaptor (not supplied), to operate the unit using a vehicle cigarette lighter (12V= ⊕ ⊖ ⊖)

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Connecting the amp

Mains voltage

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

Mains connection

Only use the mains adaptor enclosed to connect the unit's DC CHARGER PLUG on the rear panel to a properly wired IEC power socket.

Now the internal battery will be charged. The charging indicator on the rear panel lights up in red during charging. **To protect the rechargeable battery you must follow the safety instructions given on page 3!**

Alternatively you can operate the unit using a vehicle cigarette lighter (12V= | ⊕ ⊖) with a suitable adaptor (not supplied). This way of operation will not charge the internal rechargeable battery.

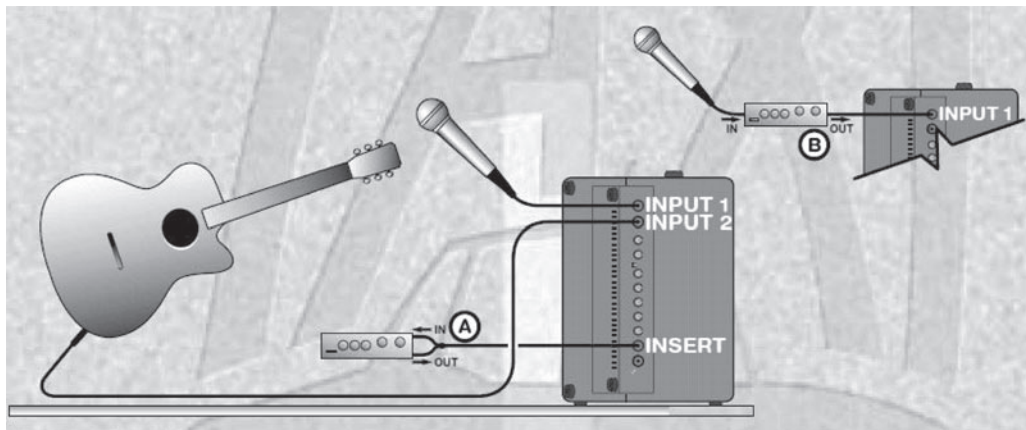
Press on the „•“ marking of the POWER switch, to switch the unit on. Press on the unmarked part of the POWER switch, to switch the unit off.

Connecting instruments and microphones

Application 1

Plug a mic into Input 1 and an instrument such as a guitar into Input 2. Any types of pickups are suitable. When an effects device is needed, please connect the device at the INSERT jack, or between the mic/instrument and amp.

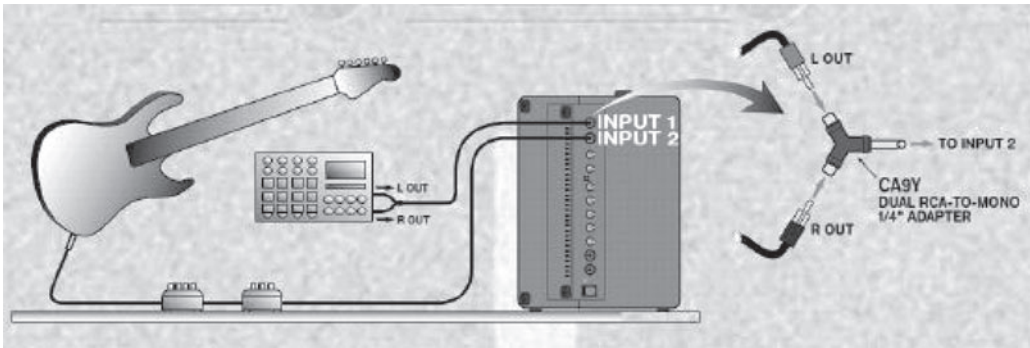
Note: Plugging into the INSERT socket does not interrupt the signal. So you should only connect those kind of effects devices here, that *add* something to the signal, e.g. a reverb unit. Those effects devices, that *process* the signal, must be switched between mic/instrument and amplifier.



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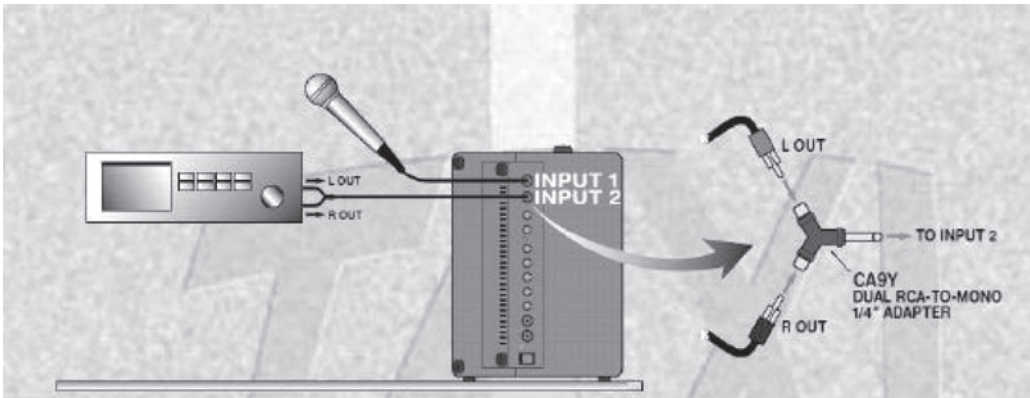
Application 2

When using a drum machine, CD player, or tape player, plug the one device into the Input 1 or plug several devices into a combiner adapter as shown. Plug a mic or an instrument into channel 2.



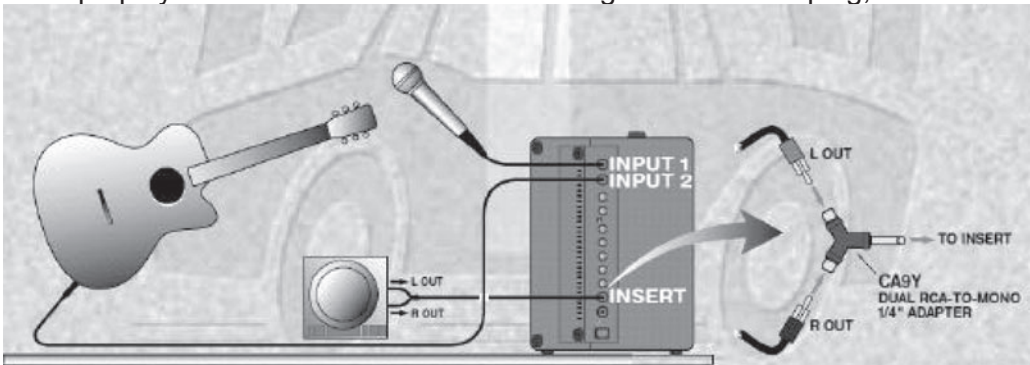
Application 3

Plug a mic into Input 1 and a CD or tape player into Input 2. The outputs of the CD/tape player must be summed to a mono signal with a 1/4\"



Application 4

Plug a mic into Input 1, and an instrument such as a guitar into Input 2, and a drum machine, CD player or tape player into the Insert jack. The outputs of the CD/tape player must be summed to a mono signal with a 1/4\"



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Using headphones

You can connect headphones to the HEADPHONES socket of your amp with a 1/4" TRS jack plug (not supplied). When you have connected the headphones, the loudspeakers are disconnected and you will only hear the sound via the headphones.

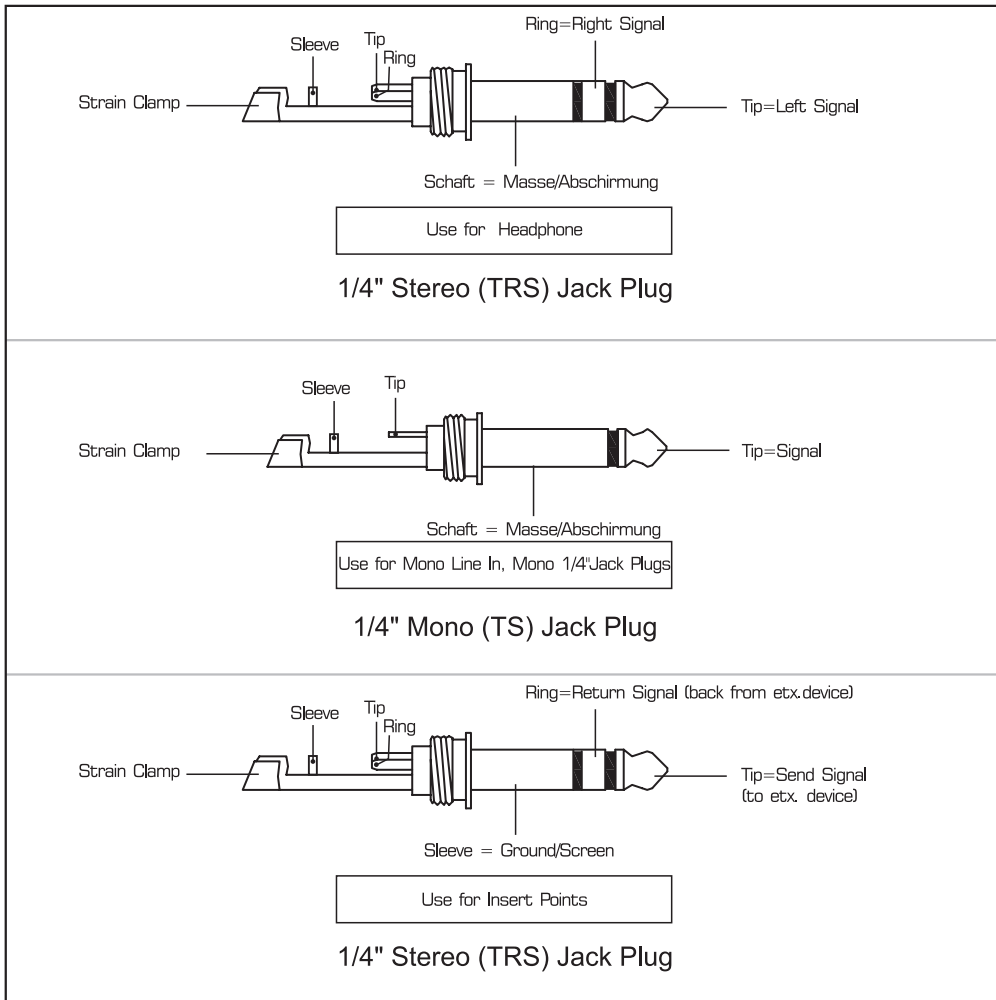


IMPORTANT! Listening to music with headphones for long periods and at high volume levels can lead to permanent hearing damage!

Even when using the amplifier without headphones you should drive it only with low volume or use proper ear protection!

Audio connections

The set is equipped with mono phone jacks, except for the HEADPHONES output and INSERT which are stereo jacks (TRS). Here you see some useful wiring schematics for the most usual connector types:



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 of 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.



Technical specifications

Output Power Rating		30W RMS @ 10% THD, 8 Ω, 13.6VDC in
Input Impedance		1 MΩ
Maximum signal accepted		
	Channel 1	6V peak to peak
	Channel 2	12V peak to peak
Gain	Channel 1	64dB
	Channel 2	56dB w/Gain switch out 86dB w/Gain switch in
Sensitivity	Channel 1	9mV RMS
	Channel 2	20mV RMS w/Gain switch out .7mV RMS w/ Gain switch in
	Line Insert	.3V RMS
Tone Channel 1		+/- 15dB @ 600Hz
EQs Channel 2	Low	12.5dB range @ 80Hz
	Mid	18.0dB range @ 850Hz
	High	13.0dB range @ 6kHz
Insert Jack	Tip	Line In
	Ring	Line Out
	Sleeve	Ground
Speakers	Woofers	8", 8Ω, 50 watt, 1" voice coil
	Tweeter	2" Piezo, 10 watt
Power Requirement		Internal 12V DC power supply 15V DC mains adaptor optional 12V vehicle lighter adaptor
Dimensions (W x H x D)		17" x 12,5" x 12,5"
Weight		17 lbs.