Harley Benton

Block-800B

bass head

th•mann
MUSIC IS OUR PASSION

user manual

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1 General information

This manual contains important instructions for the safe operation of the unit. Read and follow the safety instructions and all other instructions. Keep the manual for future reference. Make sure that it is available to all those using the device. If you sell the unit please make sure that the buyer also receives this manual.

Our products are subject to a process of continuous development. Thus, they are subject to change.

1.1 Further information

On our website (*www.thomann.de)* you will find lots of further information and details on the following points:

Download	This manual is also available as PDF file for you to download.
Keyword search	Use the search function in the electronic version to find the topics of interest for you quickly.
Online guides	Our online guides provide detailed information on technical basics and terms.
Personal consultation	For personal consultation please contact our technical hotline.
Service	If you have any problems with the device the customer service will gladly assist you.

1.2 Notational conventions

This manual uses the following notational conventions:

Letterings

The letterings for connectors and controls are marked by square brackets and italics.

Examples: *[VOLUME]* control, *[Mono]* button.

1.3 Symbols and signal words

In this section you will find an overview of the meaning of symbols and signal words that are used in this manual.

Signal word	Meaning
DANGER!	This combination of symbol and signal word indicates an immediate dangerous situation that will result in death or serious injury if it is not avoided.
CAUTION!	This combination of symbol and signal word indicates a possible dangerous situation that can result in minor injury if it is not avoided.
NOTICE!	This combination of symbol and signal word indicates a possible dangerous situation that can result in material and environmental damage if it is not avoided.

Warning signs	Type of danger
	Warning – high-voltage.
	Warning – danger zone.

2 Safety instructions

Intended use

This device is intended to be used for the amplification of signals from musical instruments with electromagnetic pickups. Use the device only as described in this user manual. Any other use or use under other operating conditions is considered to be improper and may result in personal injury or property damage. No liability will be assumed for damages resulting from improper use.

This device may be used only by persons with sufficient physical, sensorial, and intellectual abilities and having corresponding knowledge and experience. Other persons may use this device only if they are supervised or instructed by a person who is responsible for their safety.

Safety

DANGER!

Danger for children

Ensure that plastic bags, packaging, etc. are disposed of properly and are not within reach of babies and young children. Choking hazard!

Ensure that children do not detach any small parts (e.g. knobs or the like) from the unit. They could swallow the pieces and choke!

Never let children unattended use electrical devices.

DANGER!

Electric shock caused by high voltages inside

Within the device there are areas where high voltages may be present. Never remove any covers.

There are no user-serviceable parts inside.

Do not use the device if covers, protectors or optical components are missing or damaged.

DANGER!

Electric shock caused by short-circuit

Always use proper ready-made insulated mains cabling (power cord) with a protective contact plug. Do not modify the mains cable or the plug. Failure to do so could result in electric shock/death or fire. If in doubt, seek advice from a registered electrician.

CAUTION!

Possible hearing damage

The device can produce volume levels that may cause temporary or permanent hearing impairment. Over an extended period of time, even levels that seem to be uncritical can cause hearing damage.

Decrease the volume level immediately if you experience ringing in your ears or hearing impairment. If this is not possible, keep a greater distance or use sufficient ear protectors.

NOTICE!

Risk of fire

Do not block areas of ventilation. Do not install the device near any direct heat source. Keep the device away from naked flames.

NOTICE!

Operating conditions

This device has been designed for indoor use only. To prevent damage, never expose the device to any liquid or moisture. Avoid direct sunlight, heavy dirt, and strong vibrations.

NOTICE!

Power supply

Before connecting the device, ensure that the input voltage (AC outlet) matches the voltage rating of the device and that the AC outlet is protected by a residual current circuit breaker. Failure to do so could result in damage to the device and possibly injure the user.

Unplug the device before electrical storms occur and when it is unused for long periods of time to reduce the risk of electric shock or fire.

3 Features

This powerful bass head is characterized by the following special features:

- Output power: 800 watt @ 4 Ω
- Class-D ICE power amp
- 4-band EQ
- Smart compressor
- D.I. output with pre / post & lift / ground switch
- Input sensitivity switchable for active or passive basses
- Mute function
- Tuner output
- Line input with volume control
- Headphones output
- FX loop
- Speakon speaker outputs

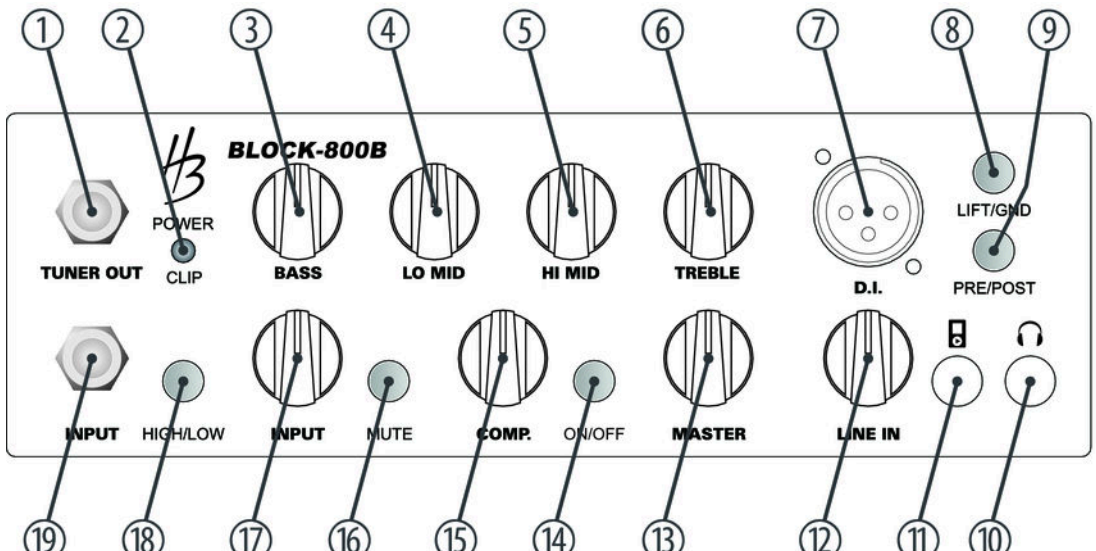
4 Installation and starting up

Unpack and carefully check that there is no transportation damage before using the unit. Keep the equipment packaging. To fully protect the device against vibration, dust and moisture during transportation or storage use the original packaging or your own packaging material suitable for transport or storage, respectively.

Create all connections while the device is off. Use the shortest possible high-quality cables for all connections. Take care when running the cables to prevent tripping hazards.

5 Connections and operating elements

Front panel



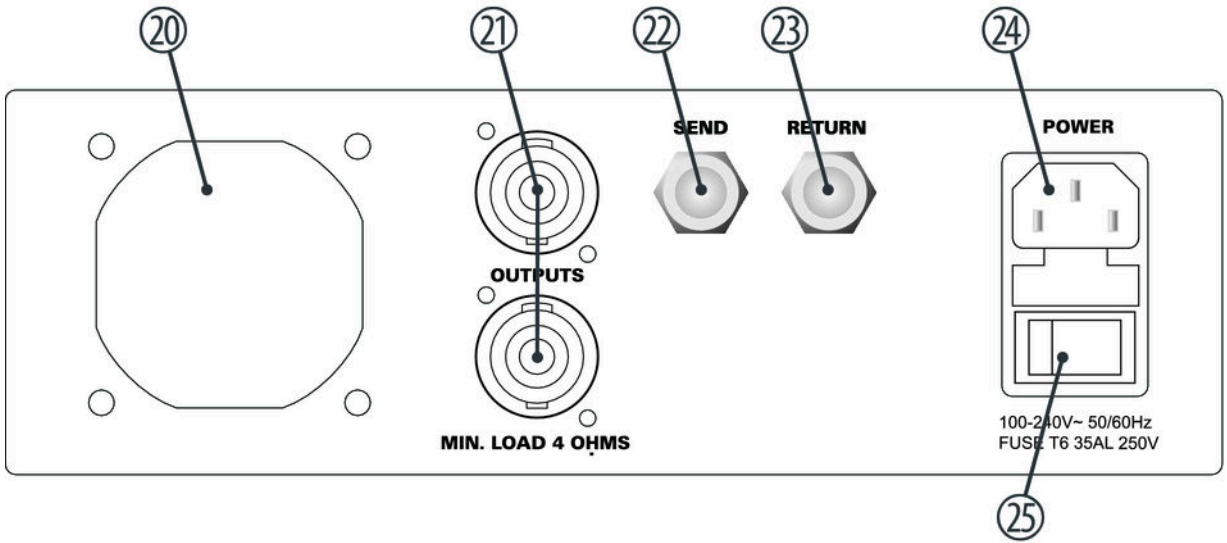
1	*[TUNER OUT]* 1/4" phone socket for the permanent connection of a tuner.
2	*[POWER | CLIP]* The LED lights up green when the device is turned on. It lights up red when the signal is clipping. Then turn the *[INPUT]* control counter-clockwise until the LED turns green again.
3	*[BASS]* Control for boosting / attenuating the low frequencies.
4	*[LO MID]* Control for boosting / attenuating the low mid frequencies.
5	*[HI MID]* Control for boosting / attenuating the high mid frequencies.
6	*[TREBLE]* Control for boosting / attenuating the high frequencies.
7	*[D.I.]* Balanced DI output with MIC level for connection to a mixer.

8	*[LIFT/GND]* This switch disconnects or connects the ground potential of the DI output and the device ground. In *[LIFT]* position (released), the device ground is disconnected. This can possibly eliminate noise caused by ground loops, that may occur when connecting the device to other grounded equipment. In *[GND]* position (pressed), the device ground is connected.
9	*[PRE / POST]* This switch determines where the DI signal is tapped. In *[PRE]* position, the signal is tapped before tone control and compressor, in *[POST]* position behind it.
10	🎧 3.5 mm jack output to connect head phones.
11	 3.5 mm jack input for connecting a line level player, e.g. MP3 player or mobile phone.
12	*[LINE IN]* Volume control for the input.
13	*[MASTER]* Overall volume control.

14	*[ON / OFF]* On / off switch for the compressor function.
15	*[COMP.]* Controller for setting the intensity of the compressor function. The use of this function results in fatter sounding depths, reduces signal peaks from hard string attack and increases the sustain of the notes, i.e. the long lingering of single notes.
16	*[MUTE]* Switch to mute the device.
17	*[INPUT]* Preamp volume control. If the *[POWER | CLIP]* LED lights up red, this controller must be turned counter-clockwise until the LED turns green again. If some EQ band levels have subsequently been raised, re-adjusting the *[INPUT]* control may be necessary.

18	*[HIGH / LOW]* Switch for the sensitivity and impedance of the *[INPUT]*. When using passive instruments, this switch should be in the HIGH position, otherwise the input level will not be sufficient to fully drive the amplifier. When using active instruments, this switch should be in the LOW position, otherwise clipping and thus a pre-stage overload can easily occur, resulting in very disturbing-sounding distortions.
19	*[INPUT]* 1/4" jack socket to connect an E bass.

Rear panel


20
21
22
23
24
SEND
RETURN
POWER
OUTPUTS
MIN. LOAD 4 OHMS
100-240V~ 50/60Hz
FUSE T6 35AL 250V
25

20	Housing fan.
21	*[OUTPUTS]* 2 × Speakon speaker outputs to connect suitable speaker boxes. The overall impedance of the connected load must not fall below 4 Ω.
22	*[SEND]* 1/4" jacks output of the serial effects loop for connecting sound processors such as compressors, etc. The connection can also be used as a line output, since the internal signal path is interrupted only by plugging a plug into the *[RETURN]* input. The SEND signal is tapped behind the EQ.
23	*[RETURN]* 1/4" jack input of the effects loop for returning the processed signal.
24	*[POWER]* IEC chassis connector for mains connection with fuse holder. To replace the fuse, carefully take out the fuse holder with a small screwdriver, replace the defective fuse with a new one of the same type and push the fuse holder back in until it snaps into place.
25	Mains switch to turn the device on or off.

6 Technical specifications

Input impedances		
[INPUT]	HIGH	1.5 MΩ
	LOW	33 kΩ
[RETURN]		22 kΩ
[LINE]		22 kΩ
Output impedances		
[SEND]		22 kΩ
[D.I.]		420 Ω
Sound control		
Bass	100 Hz	± 12 dB

Lower mids	400 Hz	± 12 dB
Upper mids	1.6 kHz	± 12 dB
Treble	7 kHz	± 12 dB
General warnings		
Power output (RMS)		800 W @ 4 Ω
Signal-to-noise ratio		> 80 dB (A-weighted)
Distortion		< 0.5 %
Fuse		5 mm × 20 mm, 6.3 A, 250 V, slow-blow
Operating supply voltage		100-240 V ~ 50/60 Hz
Dimensions (W × H × D)		240 mm × 88 mm × 255 mm
Weight		2.9 kg

7 Plug and connection assignment

Introduction

This chapter will help you select the right cables and plugs to connect your valuable equipment in such a way that a perfect sound experience is ensured.

Please note these advices, because especially in 'Sound & Light' caution is indicated: Even if a plug fits into the socket, an incorrect connection may result in a destroyed power amp, a short circuit or 'just' in poor transmission quality!

Balanced and unbalanced transmission

Unbalanced transmission is mainly used in semi-professional environment and in hifi use. Instrument cables with two conductors (one core plus shielding) are typical representatives of the unbalanced transmission. One conductor is ground and shielding while the signal is transmitted through the core.

Unbalanced transmission is susceptible to electromagnetic interference, especially at low levels, such as microphone signals and when using long cables.

In a professional environment, therefore, the balanced transmission is preferred, because this enables an undisturbed transmission of signals over long distances. In addition to the conductors 'Ground' and 'Signal', in a balanced transmission a second core is added. This also transfers the signal, but phase-shifted by 180°.

Since the interference affects both cores equally, by subtracting the phase-shifted signals, the interfering signal is completely neutralized. The result is a pure signal without any noise interference.

1/4" TS phone plug (mono, unbalanced)

1	Signal
2	Ground, shielding

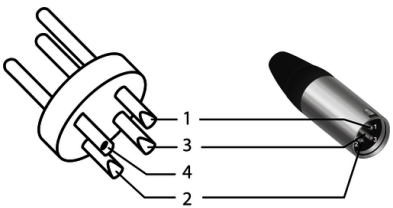
1/4" TRS phone plug (mono, balanced)

1	Signal (in phase, +)
2	Signal (out of phase, –)
3	Ground

Three-pole 1/8" mini phone jack (stereo, unbalanced)

1	Signal (left)
2	Signal (right)
3	Ground, shielding

XLR plug (balanced)



1	Ground, shielding
2	Signal (in phase, +)
3	Signal (out of phase, –)
4	Shielding on plug housing (option)

8 Protecting the environment

Disposal of the packaging material

For the transport and protective packaging, environmentally friendly materials have been chosen that can be supplied to normal recycling.

Ensure that plastic bags, packaging, etc. are properly disposed of.

Do not just dispose of these materials with your normal household waste, but make sure that they are collected for recycling. Please follow the notes and markings on the packaging.

Disposal of your old device

This product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE) in its currently valid version. Do not dispose with your normal household waste.

Dispose of this device through an approved waste disposal firm or through your local waste facility. When discarding the device, comply with the rules and regulations that apply in your country. If in doubt, consult your local waste disposal facility.

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