



*Harley Benton*

HB-80R  
guitar combo

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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](http://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  |
|---|--|
| <b>DANGER!</b>  | 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.        |
| <b>CAUTION!</b>   | This combination of symbol and signal word indicates a possible dangerous situation that can result in minor injury if it is not avoided.                      |
| <b>NOTICE!</b>  | 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 amplification and playback of signals from musical instruments with electromagnetic pickups. 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**

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

### Special features of the device

- Output power 65 watt
- 1 × 12" Celestion speaker
- Two channels (selectable)
- Effects loop
- Built-in reverb effect
- Inputs
  - Aux
  - Footswitch
- Outputs
  - Headphones
  - Speaker
  - Line
- Standby function

## 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.



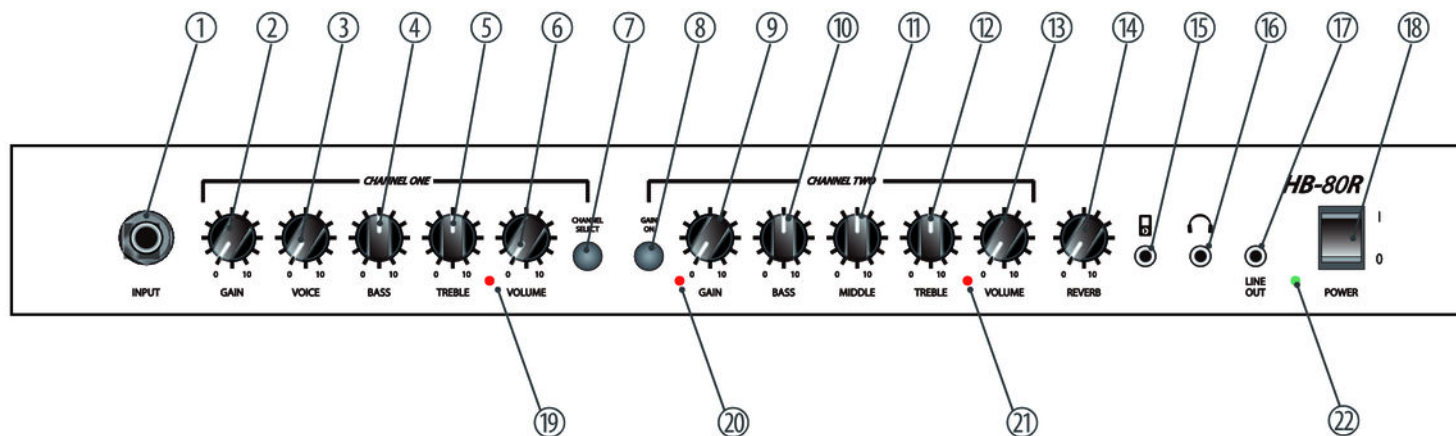
### **NOTICE!**

#### **Possible property damage by magnetic fields**

Loudspeakers produce a static magnetic field. Therefore, maintain an appropriate distance to devices that can be adversely affected or damaged by an external magnetic field.

## 5 Connections and controls

### Front panel



|   |   |
|---|---|
| 1 | <i>[INPUT]</i><br>1/4" phone socket to connect your instrument.<br>You can also connect other active signal sources like CD or MP3 players, keyboards, mixers etc. to this input. |
| 2 | <i>[GAIN]</i><br>Control to adjust the preamp gain of the signal in channel 1.  |
| 3 | <i>[VOICE]</i><br>Control to adjust the tone colour of the signal in channel 1.   |
| 4 | <i>[BASS]</i><br>Control to adjust the low frequency of the signal in channel 1.  |
| 5 | <i>[TREBLE]</i><br>Control to adjust the high frequency of the signal in channel 1.   |
| 6 | <i>[VOLUME]</i><br>Control to adjust the volume of channel 1.   |

|    |  |
|----|--|
| 7  | <i>[CHANNEL SELECT]</i><br>Channel 1 / 2 select switch. The LED of the active channel lights permanently during operation. |
| 8  | <i>[GAIN ON]</i><br>Pressure switch for enabling the preamplifier (gain) in channel 2.                                     |
| 9  | <i>[GAIN]</i><br>Control to adjust the preamp gain of the signal in channel 2.   |
| 11 | <i>[BASS]</i><br>Control to adjust the low frequency of the signal in channel 2.   |
| 12 | <i>[MIDDLE]</i><br>Control to adjust the mids in channel 2.  |
| 13 | <i>[VOLUME]</i><br>Control to adjust the volume of channel 2.  |
| 14 | <i>[REVERB]</i><br>Control to adjust the reverb effect (channel 1 and 2).  |



|    |  |
|----|--|
| 15 | Aux input for connecting an MP3 or CD player (3.5 mm mini phone socket).   |
| 16 | Headphones output (3.5 mm mini phone socket).<br>When you connect headphones, the internal speakers are automatically muted. |
| 17 | <i>[LINE OUT]</i><br>Output (3.5 mm mini phone socket) for connecting an external amplifier or recording device.             |
| 18 | <i>[POWER]</i><br>Power on/off switch. Switches the device on and off.   |
| 19 | Status indicator channel 1<br>This LED lights during operation when channel 1 is activated.                                  |
| 20 | Gain indicator<br>This LED lights during operation when the preamp of channel 2 is activated.                                |

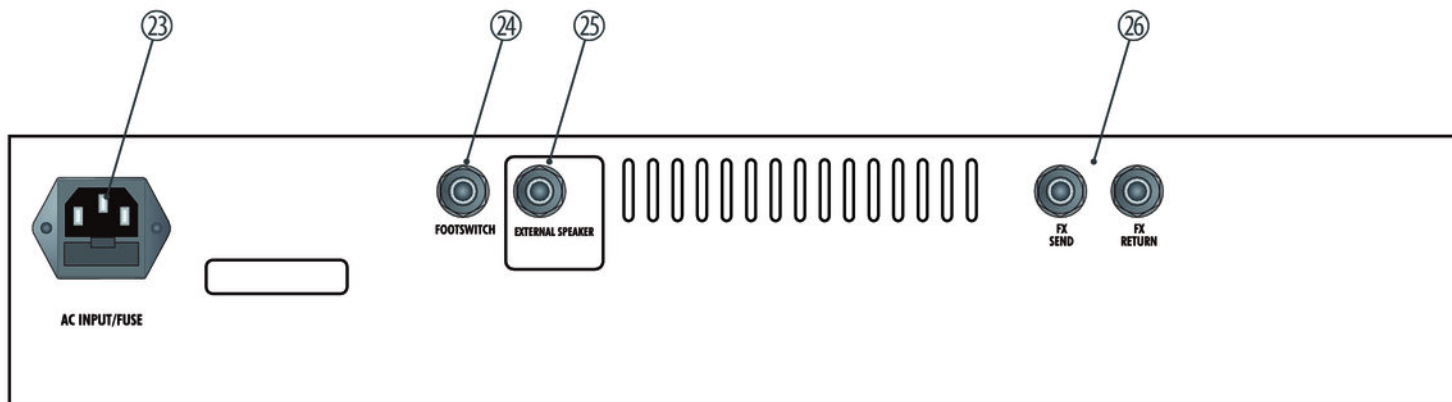
21 Status indicator channel 2

This LED lights during operation when channel 2 is activated.

22 Standby indicator

If there is no signal *[INPUT]* at the INPUT jack for 30 minutes, the device will automatically enter standby mode (LED green). As soon as the *[INPUT]* jack receives a signal again, the device automatically switches back to normal mode (LED red).

Rear panel



HB-80R

|    |   |
|----|---|
| 23 | IEC chassis plug with fuse holder.<br>Find technical data on spare fuses and power supply below or next to the fuse holder.   |
| 24 | <i>[FOOT SWITCH]</i><br>Footswitch jack (1/4" phone socket).  |
| 25 | <i>[LOUDSPEAKER]</i><br>Output jack for connecting an external speaker box (1/4" phone socket). The impedance of the external speaker must be at least 8 $\Omega$ . |
| 26 | <i>[FX SEND   RETURN]</i><br>In and output jacks for looping in an effects unit (1/4" jack sockets).  |

## 6 Technical specifications

|                                      |  |
|--------------------------------------|--|
| Output power                         | 65 W (RMS) @ 4 $\Omega$<br>40 W (RMS) @ 8 $\Omega$ |
| Configuration                        | 1 $\times$ 12" Celestion speaker                   |
| Frequency range                      | 50 Hz to 8 kHz                                     |
| Input impedance                      | 220 k $\Omega$                                     |
| Total harmonic distortion (THD)      | 0.5% (typical)                                     |
| Power consumption                    | max. 220 W   |
| Operating supply voltage             | 220...240 V $\sim$ 50/60 Hz                        |
| Dimensions (W $\times$ H $\times$ D) | 510 mm $\times$ 510 mm $\times$ 265 mm             |
| Weight                               | 16 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 |

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



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

## 8 Cleaning

### Device components

Clean the device components that are accessible from the outside regularly. The cleaning frequency depends on the operating environment: damp, smoky or particularly dirty environments can cause greater accumulation of dirt on the device components.

- Clean with a dry soft cloth.
- Stubborn dirt can be removed with a slightly dampened cloth.
- Never use solvents or alcohol for cleaning.

### Fan grids

The fan grids of the device must be cleaned on a regular basis to remove dust and dirt. Before cleaning, switch off the device and disconnect AC-powered devices from the mains. Use a lint-free damp cloth for cleaning. Never use solvents or alcohol for cleaning.



## 9 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). 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.





