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HBV 800

User Manual

Electro-acoustic violin

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Table of Contents

1	General information	5
	1.1 Further information.....	5
	1.2 Notational conventions.....	5
	1.3 Symbols and signal words.....	6
2	Safety instructions	7
3	Scope of delivery	8
4	Assembly instructions	9
	4.1 Tuning the strings.....	10
5	Connections and controls	11
	5.1 Connecting the instrument cable.....	11
	5.2 Adjusting Volume and Tone.....	11
6	Maintenance	12
	6.1 Changing strings.....	12
7	Technical specifications	13
8	Plug and pin assignments	14
9	Cleaning	15
10	Protecting the environment	16



1 General information

This user manual contains important information on the safe operation of the device. Read and follow all safety notes and all instructions. Save this manual for future reference. Make sure that it is available to all persons using this device. If you sell the device to another user, be sure that they also receive this manual.

Our products and user manuals are subject to a process of continuous development. We therefore reserve the right to make changes without notice. Please refer to the latest version of the user manual which is ready for download under www.thomann.de.

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.

Instructions


The individual steps of an instruction are numbered consecutively. The result of a step is indented and highlighted by an arrow.

Example:

1. ➤ Switch on the device.
2. ➤ Press *[Auto]*.
⇒ Automatic operation is started.
3. ➤ Switch off the device.

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.
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 – danger zone.

2 Safety instructions

**DANGER!****Danger for children**

Ensure that plastic bags, packaging, etc. are properly disposed of and are not in the 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 product. They could swallow the pieces and choke!

Never let children play unattended with the product.

**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.

Only operate the device within the ambient conditions specified in the chapter 'Technical specifications' of this user manual. Avoid heavy temperature fluctuations and do not switch the device on immediately after it was exposed to temperature fluctuations (for example after transport at low outside temperatures).

Dust and dirt inside can damage the unit. When operated in harmful ambient conditions (dust, smoke, nicotine, fog, etc.), the unit should be maintained by qualified service personnel at regular intervals to prevent overheating and other malfunction.

**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.

3 Scope of delivery

Thank you for purchasing the electro-acoustic violin HBV 800. The package includes the following components:

- 1 × electro-acoustic violin with built-in passive Piezo pickup system
- 1 × bridge (pre-assembled)
- 1 × instrument cable (1/4" jack, mono)
- 1 × strings set (pre-assembled)
- 1 × composite bow
- 1 × bow rosin
- 1 × matching case

Assembling and tuning your instrument are described in detail in the following sections.

4 Assembly instructions

Overview



A (front side)	1	Machine heads
	2	Bridge
	3	Chin rest
B (sides)	4	Operating elements
		<i>[VOL]</i> With this control you can adjust the volume.
		<i>[TONE]</i> Use this control to shape the tone (treble, bass).
	5	Connector for instrument cable (1/4" jack socket, mono)

4.1 Tuning the strings



Tune all strings with the machine heads using a tuner device to the correct pitch (usually g-d'-a'-e").

5 Connections and controls



NOTICE!

Risk of breakage, possible deformation

When placing the instrument with the fretboard down, there is a risk of damaging the fingerboard and the tailpiece.

Avoid any compressive load on the rear of the instrument, if it is placed for the assembly or for service work with the fretboard down on a solid surface.



Before connecting an amplifier, the volume controls of both violin and amp must be set to "minimum". This avoids loud crack noises when switching on.

5.1 Connecting the instrument cable



You find the connector for the instrument cable (1/4" jack, mono) at the side of the instrument.

5.2 Adjusting Volume and Tone



The controls to adjust the volume [VOL] and the tone [TONE] are located at the side of the instrument.

6 Maintenance

6.1 Changing strings

Strings are subject to a natural aging process, which is also affected by the frequency of use of the instrument. Changing the strings is recommended if the sound quality of the instrument decreases audibly. Always replace the complete set of strings (strings of 4/4 length) and always go string by string. In this way you avoid a strong temporary bending of the neck due to reduced string tension. The bridge also remains in the correct position and does not have to be readjusted.

Proceed as follows to change the strings:

- 1.** ➤ For example, loosen the run-down E string from the capstan of the machine head and from the tailpiece.
- 2.** ➤ Thread the new E string into the tailpiece, pull it over the bridge into the capstan bore of the machine head.
- 3.** ➤ Hook the string end to the capstan and tighten the string tension slowly. At the first windings, pay particular attention that the string is taut to the mechanics.
- 4.** ➤ Make sure that the string is running correctly through the grooves of bridge and nut at the upper end of the neck.
- 5.** ➤ Slowly increase the string tension until the correct pitch is reached. Use a tuner or a pitch pipe for reference.
- 6.** ➤ Proceed in the same way with the A, D and G strings and then tune all strings again successively to the correct pitch. Note that the string tension will drop a little and the instrument needs to be retuned several times until the strings stay in tune.

7 Technical specifications

Output connections	Instrument cable	1 × 1/4" jack socket, mono
Scale		approx. 32.5 cm
Body material		Solid spruce top, solid maple back, hollow resonance chamber
Neck material		Maple
Fingerboard material		Ebony
Peg material		Ebony
Pick-up		Piezo, passive
Machine heads		Machine heads
Dimensions (W × H × L)		21 cm × 9.5 cm × 59 cm
Weight		500 g
Ambient conditions	Temperature range	0 °C...40 °C
	relative humidity	20 %...80 % (non-condensing)

Variants

Item no.	Name	Colour
532480	Harley Benton HBV 800GYB Acoustic-Electric Violin 4/4	grey-burst
532482	Harley Benton HBV 800GNB Acoustic-Electric Violin 4/4	green-burst
532483	Harley Benton HBV 800SNB Acoustic-Electric Violin 4/4	sun-burst
532484	Harley Benton HBV 800SBB Acoustic-Electric Violin 4/4	sky-blue-burst
532486	Harley Benton HBV 800SBK Acoustic-Electric Violin 4/4	satin black
532487	Harley Benton HBV 800SKL Acoustic-Electric Violin 4/4	skull design
532692	Harley Benton HBV 800YWB Acoustic-Electric Violin 4/4	yellow-burst
533262	Harley Benton HBV 800WHM Acoustic-Electric Violin 4/4	white metallic
533263	Harley Benton HBV 800GLM Acoustic-Electric Violin 4/4	gold metallic
533264	Harley Benton HBV 800BLM Acoustic-Electric Violin 4/4	blue metallic
533265	Harley Benton HBV 800PUM Acoustic-Electric Violin 4/4	purple metallic
533267	Harley Benton HBV 800GRM Acoustic-Electric Violin 4/4	green metallic
533268	Harley Benton HBV 800RDM Acoustic-Electric Violin 4/4	red metallic
533269	Harley Benton HBV 800HWH Acoustic-Electric Violin 4/4	highgloss white
533271	Harley Benton HBV 800HBK Acoustic-Electric Violin 4/4	highgloss black

8 Plug and pin assignments

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

9 Cleaning

Clean the instrument and especially the strings after playing with a dry, soft, lint-free cloth. Stubborn dirt can be removed with a slightly dampened cloth.

Never use cleaners containing alcohol or thinner.

10 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.

