Harley Benton

DNAfx GiT

multi effects unit

th•mann
MUSIC IS OUR PASSION

user manual

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27.11.2019, ID: 478040

Table of contents

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.

Displays

Texts and values displayed on the device are marked by quotation marks and italics.

Examples: *'24ch'*, *'OFF'*.

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

Intended use

This device is intended to be used for sound processing 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.

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!

External power supply

The device is powered by an external power supply. Before connecting the external power supply, 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 the user.

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

3 Features

Special features of the device:

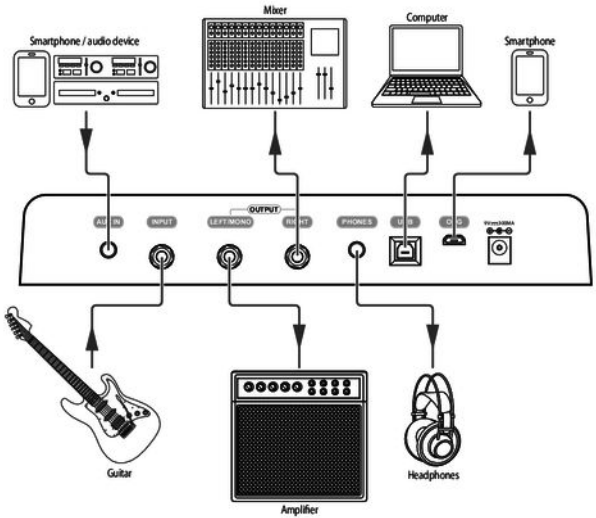
- 55 high-quality amp simulations
- 26 IR (Impulse Response) simulations
- 151 different guitar effects
- up to 9 types of effects at the same time
- 40 drum rhythms and 10 metronome rhythms
- Phrase Looper with 80 seconds recording time
- Tap Tempo function
- up to 200 storable presets
- built-in expression pedal
- Large LED colour display
- USB connectivity for editing via PC or MAC
- robust aluminium housing

4 Installation

Unpack and check carefully there is no transportation damage before using the unit. Keep the equipment packaging. To fully protect the product 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.

Connection options



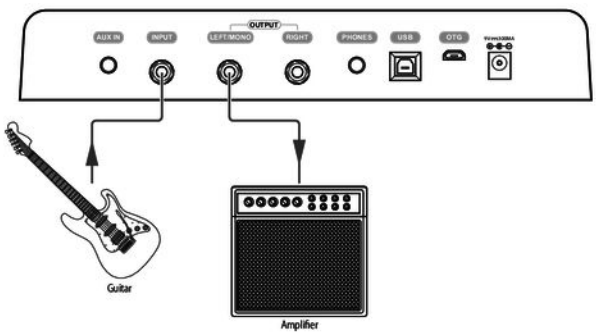
Connection to the power supply.

1. Make the desired connection between the guitar and the equipment.

The device is powered by an AC adaptor plug. Before connecting the AC adaptor plug, 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 the user.

2. Connect the supplied mains adapter to the power supply input of the device and then plug the adapter into an AC outlet.

Connection to the input jack of the amplifier



1. Connect the guitar to the input jack *[INPUT]* of the unit.

Turn off the [AMP] and [CAB] effects.

2. Connect the input of the amplifier to the output jack *[LEFT MONO]* of the unit.

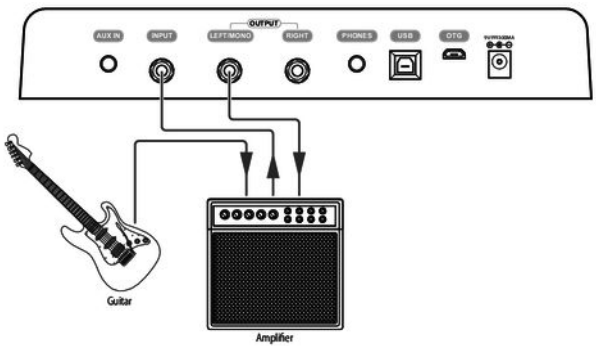
Connection to the power amplifier

1. Connect the guitar to the input jack *[INPUT]* of the unit.

Turn off the [CAB] effect.

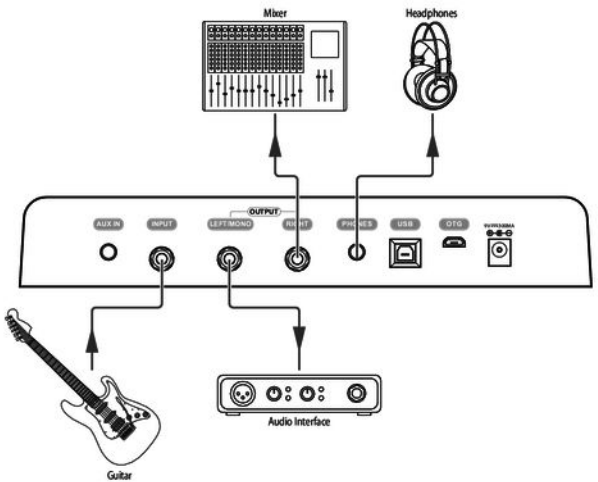
2. Connect the RETURN interface of the amplifier to the output jack *[LEFT MONO]* of the unit.

Connection to a effect looper



1. Connect the guitar to the input of an amplifier.
2. Connect the SEND interface of the amplifier to the input jack *[INPUT]* of the unit.
3. Connect the RETURN interface of the amplifier to the output jack *[LEFT MONO]* of the unit.

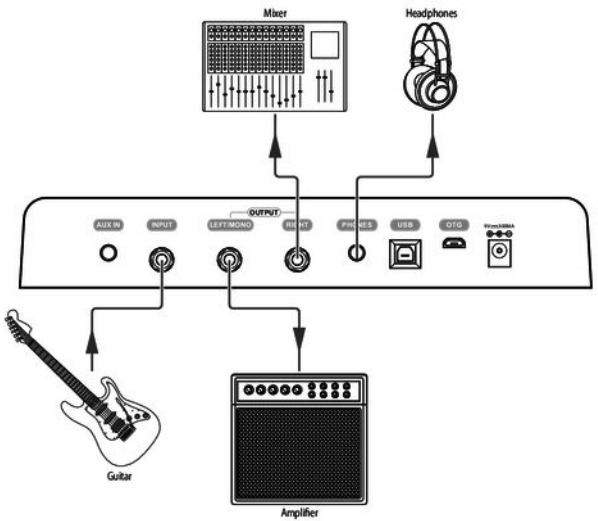
Studio



1. Connect the guitar to the input jack *[INPUT]* of the unit.
2. Connect an audio interface to the output jack *[LEFT MONO]* of the unit.
3. Connect a mixer to the output jack *[RIGHT]* of the unit.

4. Connect the headphones to the *[PHONES]* jack.

Stage

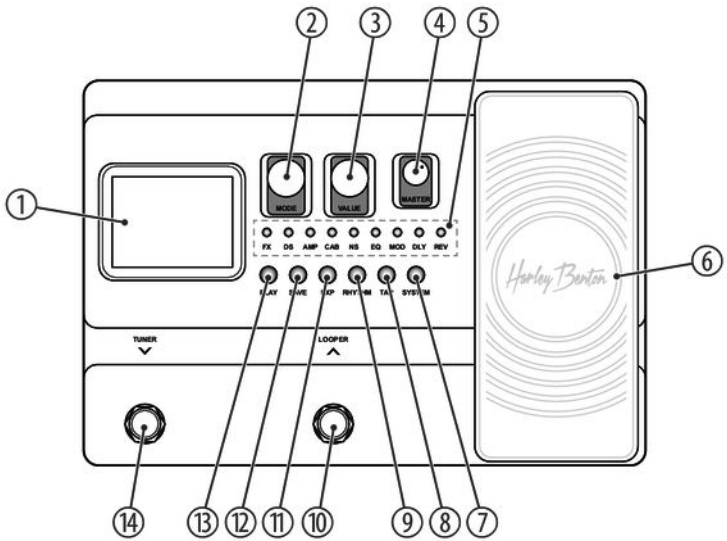


1. Connect the guitar to the input jack *[INPUT]* of the unit.
2. Connect the RETURN interface of the amplifier to the output jack *[LEFT MONO]* of the unit.

3. Connect a mixer to the output jack *[RIGHT]* of the unit.
4. Connect headphones to the *[PHONES]* jack.

5 Connections and operating elements

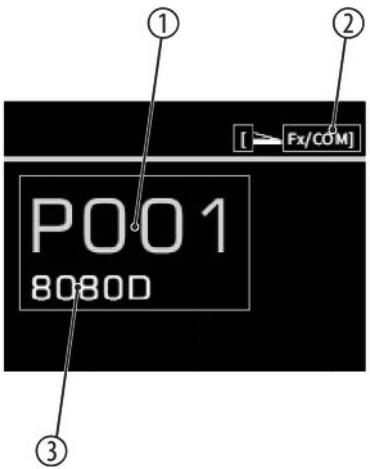
Top side



1	Display	
2	*[MODE]*	Rotary control for switching on and off the respective effect modules.
3	*[VALUE]*	Rotary control to change the menu pages and to change parameters.
4	*[MASTER]*	Rotary control to adjust the overall volume.
5	*[FX]*, *[DS]*, *[AMP]*, *[CAB]*, *[NS]*, *[EQ]*, *[MOD]*, *[DLY]*, *[REV]*	LED indicator light for effects The active effect blocks in the effects chain for the currently set preset light up.
6	Expression pedal	
7	*[SYSTEM]*	Button to call up the system settings
8	*[TAP]*	Button to call up the tab tempo settings
9	*[RHYTHM]*	Button to call up the configuration of Drums and Metronome
10	*[LOOPER]*▲	Footswitch to activate the looper ■ Hold down the footswitch to activate the looper. ■ With the looper activated: Press the footswitch to activate the STOP / CLEAR function.
11	*[EXP]*	Button to call up the configuration of the expression pedal

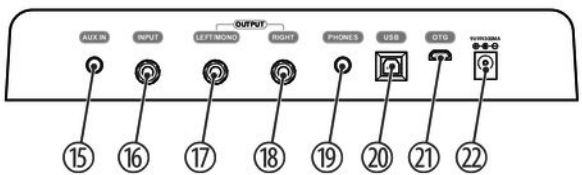
12	*[SAVE]*	Button to call up the preset memory menu
13	*[PLAY]*	Button to call up the preset menu screen
14	*[TUNER]*▼	Footswitch to activate the tuner ■ Hold down the footswitch to activate the tuner. ■ With the looper activated: Press the footswitch to activate the REC / PLAY / DUB function.

Display



1	Preset number
2	Value controlled by the expression pedal
3	Preset name

Rear panel



15	*[AUX IN]*	3.5 mm input socket (stereo) for connecting an audio device (e.g. MP3 player or mobile phone)
16	*[INPUT]*	1/4" phone jack for connecting a guitar or other instrument with a similar output level
17	*[OUTPUT][LEFT/MONO]*	1/4" phone jack (mono)
18	*[OUTPUT][RIGHT]*	1/4" phone jack (mono)
19	*[PHONES]*	3.5 mm jack socket (stereo) to connect headphones.
20	*[USB]*	Type B USB port for connecting the device to a PC Using the PC, you can directly record the songs you play, update the software, or edit presets with the special editor software.

21	*[OTG]*	Micro USB port for connecting the device to a compatible smartphone or tablet A compatible device lets you directly record the songs being played.
22	*[DC IN]*	Connection for the external voltage supply with 9 V DC. When connecting, observe the correct polarity - the inner pole must be negative.

6 Operating

6.1 Presets

6.1.1 Selecting presets

The device has 200 pre-set slots.

→ Press the footswitches ▼ or ▲ or turn the *[VALUE]* knob to switch between presets.

The LEDs in the effect block light up according to the effect chain setting for the current preset.

Preset	Requirement	Function
P001…P050	Effects AMP and CAB enabled	Connection of full-range devices (headphones, sound card, mixer, full-range speakers, etc.)
P051…P100	Effects AMP enabled	Connection to the RETURN interface of the guitar amplifier
P101…P150	Effects AMP and CAB disabled	Direct connection to INPUT of the guitar amplifier
P151…P200		Individually configurable presets

6.1.2 Editing presets

The device has 9 effect blocks that allow you to use up to 9 types of effects simultaneously in an effects chain.

Activating effect block

1. Turn *[MODE]* to select a disabled effect block.
2. Press *[MODE]*.
   ⇨ The effect block is activated. The display shows *'ON'*.

Deactivating effect block

1. Turn *[MODE]* to select a enabled effect block.
2. Press *[MODE]*.
   ⇨ The effect block is deactivated. The display shows *'OFF'*.

Editing effects

1. Turn *[MODE]* to select the desired effect block.
2. Turn *[VALUE]* to select the desired value (display shows *'GAIN' 'MID' 'PRES' 'BASS' 'TREBLE' 'MST'*).

3. Press *[VALUE]*.
   ⇨ The set value is applied.
4. Turn *[VALUE]* to change the parameters.
5. Press *[VALUE]* to quit the edit menu.

Adjusting the volume

You can adjust the volume in several ways:

- Using the rotary control *[MASTER]*.
- Via the submenu *'INPUT LEVEL'* in the system settings.
- Via the expression pedal.
- Via the submenu *'MST'* in the effects.

6.1.3 Storing presets

1. Press *[SAVE]*.
   ⇨ A window for allocating a memory location and a name for the preset to be saved opens up.

2. Turn *[VALUE]* until the desired preset number is reached, under which you want to save the settings.
3. Press *[VALUE]*.
   ⇨ The set value is applied.
4. Turn *[VALUE]* to select the desired letter for the preset name.
5. Press *[VALUE]*.
   ⇨ The set value is applied.
6. Repeat steps 4 and 5 until you have entered the desired name for the preset you want to save.

6.2 Expression pedal

Setting the effects volume

1. Press *[EXP]*.
   ⇨ The menu for setting the expression pedal is called up.

2. Press *[VALUE]* until the display shows *'Level/Volume/MST'*.
3. Press *[VALUE]*.
   ⇨ The set value is applied.
4. Press the expression pedal.
   ⇨ The expression pedal is activated. The LED *[EXP]* lights up.

Calling up the expression pedal settings

1. Press *[EXP]*.
   ⇨ The menu for setting the expression pedal is called up.
2. Press *[VALUE]* until the display shows *'FUNCTION'*.
3. Press *[VALUE]*.
4. Turn *[VALUE]* to select the desired parameter you want to set.
5. Press the expression pedal.
   ⇨ The set parameter is activated.

Calibrating the expression pedal

1. Press *[EXP]*.
   ⇨ The menu for setting the expression pedal is called up.
2. Lower the Expression Pedal to the rear and press *[VALUE]*.
   ⇨ The setting is confirmed.
3. Lower the Expression Pedal to the front and press *[VALUE]*.
   ⇨ The setting is confirmed.
4. Lower the Expression Pedal forwards and apply pressure to the front. Simultaneously press *[VALUE]*.
   ⇨ The sensitivity of the expression pedal for forward pressure printing is set.
5. Press *[SAVE]* to save the settings.

Setting the volume of the expression pedal

1. Press *[EXP]*.
   ⇨ The menu for setting the expression pedal is called up.
2. Press *[VALUE]* until the display shows *'EXP VOL'*.
3. Press *[VALUE]*.
   ⇨ The display shows *'EXP VOL PEDAL: ON'*.
4. Turn *[VALUE]* to select the desired value for the volume from *'MIN 000'* to *'MST 100'*.
5. Press *[VALUE]*.
   ⇨ The setting is confirmed.

Setting the Wah effect

1. Press *[EXP]*.
   ⇨ The menu for setting the expression pedal is called up.
2. Press *[VALUE]* until the display shows *'FUNCTION'*.

3. Press *[VALUE]*.
4. Press *[VALUE]* until the display shows *'FX/COMP-POSITION'*.
5. Press the expression pedal.
   ⇨ The set parameter is activated.
6. Turn *[VALUE]* to select the desired FXCOMP effect.
7. Press *[VALUE]*.
   ⇨ The setting is confirmed.

6.3 Tap Tempo

1. Press *[TAP]*.
2. Press *[DLY]*.
   ⇨ The delay effect is activated.
3. Turn *[VALUE]* to select the submenu *'SUB-D'*.
4. Turn *[VALUE]* to select the desired value.

5. Press *[VALUE]*.
   ⇨ The setting is confirmed.
6. Press the *[TAP]* footswitch twice to control the delay time.
   ⇨ The *[TAP]* LED lights up red.

6.4 Drum machine

1. Press *[RHYTHM]*.
   ⇨ The drum machine is activated. The LEDs of the *[RHYTHM]* and *[TAP]* buttons light up blue.
2. Turn *[VALUE]* to select the desired submenu.
3. Press *[VALUE]*.
   ⇨ The setting is confirmed.

Sub menu menu level 1	Menu level 2	Menu level 3	Description
'MODE'	*'RHYTHM'*	Adjusts the operating mode Rhythm.	
		'STYLE'	Adjusts the drum rhythm.
		'BPM'	Sets the beats per minute.
		'VOLUME'	Adjusts the volume
	'METRONOME'	Sets the operating Metronome.	
		'STYLE'	Adjusts the drum rhythm.
		'BPM'	Sets the beats per minute.
		'VOLUME'	Adjusts the volume

6.5 Tuner

1. Hold down the *[TUNER]* ▼ footswitch.
   ⇨ The tuner is activated.
2. Turn *[VALUE]* to select the desired submenu.
3. Press *[VALUE]*.
   ⇨ The setting is confirmed.
4. Press any footswitch to exit tuner mode.

Submenu	Description
'MUTE'	The audio signal is muted.
'BYPASS'	The audio signal is bypassed.
'A=435Hz' … *'A=445Hz'*	Tuner calibration. The chromatic tuning range can be set between 435 Hz and 445 Hz.

6.6 Looper

1. Hold down the *[LOOPER]*▲ footswitch.
   ⇨ The looper is activated.
2. Turn *[VALUE]* to select the desired submenu.
3. Press *[VALUE]*.
   ⇨ The setting is confirmed.

Submenu	Description
'PLAY VOL'	Adjusts the playback volume of the looper.
'TIME'	Shows the recording time.

Submenu	Trigger	Description
'REC'	Press *[TUNER]*▼	The recording is started.
'PLAY'	With REC/DUB/STOP activated: Press *[TUNER]*▼	The playback is started.
'DUB'	With PLAY activated: Press *[TUNER]*▼	The dubbing is started.
'STOP'	With PLAY/DUB activated: Press *[LOOPER]*▲	Playback or dubbing is stopped.
'CLEAR'	Press and hold *[LOOPER]* ▲ for one second	All audio tracks are being deleted.

After recording for more than 80 seconds, the looper automatically starts playback.

Editing presets does not affect the sound of the recorded track.

6.7 OTG function

The device can be used as an audio interface with a smartphone or tablet.

- Connect the device to a smartphone or tablet using an OTG cable.
  - ⇨ The device is connected for recording audio or video recordings on the mobile device.

6.8 System settings

1. Press *[SYSTEM]* to call up the system settings.
2. Turn *[VALUE]* to select the desired submenu.
3. Press *[VALUE]*.
   ⇨ The setting is confirmed.

Submenu	Description
'INPUT LEVEL'	Sets the input level of the device, -∞~+6 dB.
'SCREEN'	Adjusts the brightness of the display.
'CAB SIM TRHU'	Sets the different output options in the speaker box simulation of the device.
'RESET'	Resets the device to factory defaults.
'OTG OUT'	Sets the output level for OTG mode.

6.9 Software

With the dedicated editing software, the device can be computer-controlled (PC or MAC) for sound recording, for software updates or for editing presets.

To do this, connect your computer to the device via the USB port on the device.

7 Effects list

FXCOMP

Number	Name	Template
1	CRY WAH	DUNLOP GCB95
2	535 WAH	DUNLOP Crybaby 535Q
3	AUTO WAH	@WAH
4	TALK WAH AH	RedKid Talk wah 'AH'
5	TALK WAH OH	RedKid Talk wah 'OH'
6	TOUCH WAH	ENVELOPE auto-wah
7	YELLOW COMP	YELLOW COMP compressor
8	BLUE COMP	BLUE COMP compressor

DS/OD

Number	Name	Template
1	TUBE DR	B.K. Butler Tubedrive
2	808	IBANEZ Ts808
3	PURE BOOST	PURE BOOST
4	FLEX BOOST	FLEX BOOST
5	DDRIVE	BARBER Direct Drive
6	BLACKRAT	ProCo Rat
7	GREY FAZE	Dunlop Fuzz Face
8	MUFFY	EH Big Muff
9	MTL ZONE	BOSS METAL ZONE
10	MTL MASTER	Digitech METAL MASTER
11	OBSESSIVE DIST	Fulltone OCD
12	JIMMY OD 1	Paul Cochrane Timmy OD

Number	Name	Template
13	FULL DRV	Fulltone Fulldrive 2
14	SHRED	Marshall Shred master
15	Beebee PRE	Xotic BB Preamp
16	BeeBee +	Xotic BB Plus
17	RIET	Suhr Riot
18	TIGHT DS	Amptweaker TightRock
19	FULL DS	Fulltone GT-500
20	GOLD CLON	Klon Centaur

AMP

Number	Name	Template
1	65US DX	Fender 65 Deluxe reverb
2	65 USTW	Fender 65 Twin Reverb
3	59 US BASS	Fender 59 Bassman
4	US SONIC	Fender Super Sonic
5	US BLUES CL	Fender Blues Deluxe clean channel
6	US BLUES OD	Fender Blues Deluxe
7	J800	Marshall JCM800
8	J900	Marshall JCM900
9	PLX 100	Marshall Plexi 100
10	E650 CL	Engl E650 Clean
11	E650 DS	Engl E650 Distortion
12	POWERBELL CL	Engl E645 Clean

Number	Name	Template
13	POWERBELL DS	Engl E645 Distortion
14	BLACKNIIGHI CL	Engl EN650 Blackmore Clean
15	BLACKNIGHT DS	Engl EN650 Blackmore Distortion
16	MARKII CL	Mesa Boogie MARK III Clean
17	MARKIT DS	Mesa Boogie MARK III Distortion
18	MARKV CL	Mesa Boogie MARK V Clean
19	MARKV DS	Mesa Boogie MARK V Distortion
20	TRI RECCL	Mesa Boogie Triple Rectifier Clean
21	TRI REC DS	Mesa Boogie Triple Rectifier Distortion
22	ROCKVRB CL	Orange Rockerverb Clean
23	ROCK VRB DS	Orange Rockerverb Distortion
24	CITRUS 30	Orange AD 30
25	CITRUS 50	Orange OR 50

Number	Name	Template
26	SLOW 100 CR	Soldano SLO-100 Crunch
27	SLOW100 DS	Soldano SLO-100 Distortion
28	DR.ZEE 18 JR	DR.Z Maz18 Jr
29	DR.ZEE RECK	DR.Z Z-Wreck
30	JET100H CL	Jet City JCA100H Clean
31	JET100H OD	Jet City JCA100H Distortion
32	JAZZ 120	Roland JC-120
33	UK30 CL	Vox AC30 Clean
34	UK30 OD	Vox AC30 Overdriven
35	HWT103	Hiwatt DR-103
36	Pv5050 CL	Peavey 5150 Clean
37	P5050 DS	Peavey 5150 Distortion
38	REGAL TONE CL	Tone King Falcon Rhythm

Number	Name	Template
39	REGAL TONE Od1	Tone King Falcon Tweed
40	REGAL TONE Od2	Tone King Falcon Lead
41	CAROL CL	Two Rock Coral Clean
42	CAROL OD	Two Rock Coral Overdriven
43	CARDEFF	Two Rock Cardiff
44	Ev5050 CL	EVH 5150 Clean
45	Ev5050 DS	EVH 5150 Distortion
46	HT CLUB CL	Blackstar HT Stage 100 Clean
47	HT CLUB DS	Blackstar HT Stage 100 Distortion
48	HUGEN CL	Diezel Hagen Clean
49	HUGEN OD	Diezel Hagen Overdrive
50	HUGEN DS	Diezel Hagen Distortion
51	KOCHE OD	Koch Powertone Overdrive

Number	Name	Template
52	KOCHE DS	Koch Powertone Distortion
53	ACOUSTIC 1	Acoustic simulator 1
54	ACOUSTIC 2	Acoustic simulator 2
55	ACOUSTIC 3	Acoustic simulator 3

CAB

Number	Name	Template
1	US DLX112	Fender Deluxe reverb 112
2	US TWN 212	Fender Twin reverb 112
3	US BASS 410	Fender Bassman 410
4	SONIC 112	Fender Super Sonic 112
5	BLUES 112	Fender Blues deluxe 112
6	1960 412	Marshall 1960A 412
7	EAGLE P412	Engl Pro XXL 412
8	EAGLE S412	Engl Vintage XXL 412
9	MARK 112	Mesa Boogie Mark 112
10	REC412	Mesa Boogie Rectifier 412
11	CITRUS 412	Orange Pc412
12	CITRUS 212	Orange Pc212

Number	Name	Template
13	SLOW 412	Soldano SLO 412
14	DRZEE 112	DR.Z Maz 112
15	DRZEE 212	DR.Z Z-Wreck 212
16	JAZZ 212	Roland JC120 212
17	UK 212	Vox AC30 212
18	HW T412	Hiwatt Ap412
19	PV 5050 412	Peavey 5150 412
20	REGAL TONE 110	Tone King Falcon 110
21	TWO STONES 212	Two Rock 212
22	CARDEFF 112	Two Rock 112
23	EV 5050 412	EVH 5150 412
24	HT 412	Blackstar HTV 412

Number	Name	Template
25	GAS STATION 412	Diezel Hagen 412
26	ACOUSTIC 112	1 x 12" cabinet for acoustic amplification

NS

Number	Name	Template
1	NOISE KILLER	NOISE KILLER
2	NTEL REDUCER	Intelligent Noise Reduction
3	NOISE GATE	Digital noise gate

EQ

Number	Name	Template
1	GUITAR EQ G	5 band graphic EQ for guitar
2	METAL EQ HM	5 band graphic EQ for BASS guitar
3	6BAND EQ G-6	6 band graphic EQ for Guitar
4	CUSTOM EQ	3 band parametric EQ with adjustable frequencies and ±12Db boost/cut

MOD

Number	Name	Template
1	PHASER	Based on the custom phaser effect
2	STEP PHASER	Square wave phase shifter
3	FAT PHASER	Low frequency phase shifter
4	FLANGER	Based on the custom flanger effect
5	JET-FLANGER	Based on the JET FLANGER
6	TREMOLO	Based on the custom tremolo effect
7	STUTTER	Choppy cut off filter
8	VIBRATO	Pitch modulation
9	PITCH SHIFT	Dry signal pitch shifter. Can simulate classic whammy.
10	DETUNE	Fine tune pitch adjustment
11	ROTARY	Simulates a vintage leslie rotating speaker
12	ANA-CHORUS	Stompbox style analog chorus

Number	Name	Template
13	TRI-CHORUS	Rich multi stage chorus
14	RING MOD	Ring modulator
15	Q-FILTER	Static notch filter (like a half cocked wah pedal)
16	HIGH PASS	Static high frequency pass filter
17	LOW PASS	Static low frequency pass filter
18	SLOW GEAR	Auto volume swell
19	LOFI	Low rate sampling filter

DELAY

Number	Name	Template
1	DIGITAL	Recreates the crystal-clear repeats of the 80’s delay units
2	ANALOG	Modelled after classic stompbox delays with BB chips
3	DYNAMIC	Digital Delay which responds to instrument dynamics
4	REAL	Realistic and natural echo
5	TAPE	Recreates swirly 70’s tape echo
6	MOD	Digital Delay with modulated repeats
7	REVERSE	Backwards delay
8	DUAL DELAY	2 delays with independent controls
9	PINGPONG	Stereo delay

REVERB

Number	Name	Template
1	ROOM	Small room reverb
2	HALL	Large room reverb
3	CHURCH	Huge room reverb
4	PLATE	Studio style plate reverb
5	SPRING	Classic spring reverb tank
6	MOD	Reverb with modulation
7	CAVE	Spacious and atmospheric reverb

8 Technical specifications

Input connections	Voltage supply	Input socket for plug-in power supply
	AUX IN	3.5 mm mini phone socket (stereo)
	INPUT	1 × 1/4" phone jack
Output connections	Audio	2 × 1/4" phone jack (mono)
	USB	1 ×USB, type B
		1 ×Micro USB
Voltage supply	Plug-in power supply (9 V ⎓ / 300 mA , centre negative)	
Dimensions (W × H × D)	230 mm × 156 mm × 33 mm	
Weight	1.0 kg	

Further information

Amp modelling	Yes
Drum computer	Yes
Tuner included	Yes
Expression pedal	Yes
USB port	Yes
Headphone connection	Yes
MIDI port	No
Line Out	Yes
Battery operation	No
Power supply included	Yes

9 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

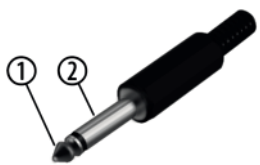
Unbalanced transmission is mainly used in semi-professional environment and in hifi use. Instrument cables with two conductors (one core plus shielding) are typical representatives of the unbalanced transmission. One conductor is ground and shielding while the signal is transmitted through the core.

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

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.

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